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Employment & Earnings

U.S. Department of Commerce
Bureau of Economic Analysis
January 2000

In this issue:

1999 annual averages

Revised seasonally adjusted
household data

Data on union affiliation

Median weekly earnings for
detailed occupations

Employee absences

Minimum wage workers

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January 2000

Vol. 47 No. 1

Calendar of Features

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

Household data

Revised seasonally adjusted series Jan.

Annual averages Jan.

Earnings by detailed occupation Jan.

Union affiliation Jan.

Minimum wage data Jan.

Employee absences Jan.

Quarterly averages, Seasonally adjusted data,
persons of Hispanic origin, Vietnam-era veterans
and nonveterans, and weekly earnings data Jan., Apr., July, Oct.

Establishment data

National annual averages:

Industry divisions (preliminary) Jan.

Industry detail March, June

Women employees March, June

National data revised to reflect new benchmarks
and new seasonal adjustment factors June

State and area annual averages May

Area definitions May

Region, State, and area labor force data

Annual averages May

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Editor's Note

With this issue, seasonally adjusted unemployment and other labor force series derived from the Current Population Survey (household survey) have been revised to reflect updated seasonal adjustment factors which incorporate the experience through December 1999. As a result, seasonally adjusted data for 1995-99 are subject to revision. Revised current data appear in table A, tables A-1 through A-13, and D-1 through D-11.

The article beginning on page 3 discusses the effect of the revisions, describes the seasonal adjustment method, and includes the new seasonal adjustment factors to be used to calculate the major civilian labor force series for January-June 2000.

Historical seasonally adjusted monthly and quarterly data also are available on the Internet. Internet users can access these data from the <ftp://ftp.bls.gov/pub/special.requests/lf> directory.

This issue also introduces as a regularly recurring special feature, annual data on wage and salary workers with earnings at or below the prevailing Federal minimum wage. An article on page 7 describes these data and data for 1999 appear in tables 44 and 45.

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AND WORKING CONDITION

RETIREMENT
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Employment and Unemployment Developments, December 1999

Employment rose in December, and the unemployment rate was unchanged at 4.1 percent. Nonfarm payroll employment increased by 315,000. Job growth occurred throughout the service-producing sector and in construction, while manufacturing employment was little changed. Average hourly earnings rose by 6 cents in December following a rise of 1 cent in November and have increased by 3.7 percent over the year.

Unemployment

The number of unemployed persons was essentially unchanged at 5.7 million in December, and the unemployment rate was 4.1 percent for the third consecutive month. The jobless rate moved downward in 1999; the fourth-quarter average of 4.1 percent was down from 4.4 percent in the fourth quarter of 1998. Unemployment rates for all the major worker groups—adult men (3.3 percent), adult women (3.6 percent), teenagers (13.8 percent), whites (3.5 percent), blacks (7.9 percent), and Hispanics (5.9 percent)—showed little or no change over the month. (See tables A-3 and A-4.)

Total employment and the labor force

The number of persons in the civilian labor force, 140.1 million, was little changed in December, as was the labor force participation rate, at 67.1 percent. Total employment rose to 134.4 million. The employment-population ratio—the proportion of the population age 16 and older with jobs—was 64.4 percent in December, matching its all-time high first reached in January 1999. (See table A-3.)

About 8.0 million persons (not seasonally adjusted) held more than one job in December. These multiple jobholders represented 6.0 percent of the total employed, compared with 6.2 percent in December 1998. (See table A-37.)

Persons not in the labor force

The number of persons who were marginally attached to the labor force in December totaled 1.1 million (not seasonally adjusted). These people wanted and were available to work and had looked for a job sometime in the prior 12 months. They are not counted as unemployed because they had not searched for employment in the 4 weeks preceding the survey. The number of discouraged workers was 267,000 in December. These people, a subset of the marginally attached, were not currently looking for work specifically because they believed no jobs were available for them. (See table A-36.)

Industry payroll employment

Nonfarm payroll employment increased by 315,000 in December to 129.9 million, after seasonal adjustment. Job growth in 1999 totaled 2.7 million or 2.1 percent; this compares to a 2.4 percent gain in 1998. Private sector payroll employment rose by 251,000 over the month. (See table B-3.)

The services industry added 109,000 jobs in December. Employment in business services rose by 77,000 over the month, with job gains in personnel supply services (27,000) and computer and data processing services (13,000). Engineering and management services added 23,000 jobs. Both business services and engineering and management services had much smaller increases in November. Health services employment grew by 16,000 in December, the second consecutive month with an above-average increase for the industry. Employment in two services industries that tend to experience large seasonal fluctuations in demand—agricultural services and amusements and recreation—declined in December.

Employment in retail trade rose by 65,000 in December. Over the year, retail employment increased by 427,000, or 1.9 percent, slightly above the 1.7 percent gain in 1998. In December, job gains were concentrated in general merchandise stores (34,000) and eating and drinking places (27,000). December's job gain in general merchandise stores was the first increase since April 1999. Employment in eating and drinking places fluctuated in 1999 but remained on an upward trend. Wholesale trade employment increased by 16,000 in December, in line with its average for the prior 12 months. Growth in the industry was concentrated in durable goods distribution.

Transportation and public utilities added 32,000 jobs in December, twice the average for the prior 12 months. Within transportation, air transportation, which moves packages as well as passengers, added 14,000 jobs, and trucking and warehousing added 9,000.

Finance, insurance, and real estate added 12,000 jobs in December, mostly in finance. Within finance, employment in security and commodity brokerages grew by 5,000. Employment in real estate was little changed in December, following gains over the previous 2 months totaling 14,000.

Employment in government rose by 64,000 in December, after seasonal adjustment. Much of the gain was in local

government education, where there had been little net change over the prior 3 months.

In the goods-producing sector, construction employment rose by 16,000 in December, following a much larger gain in November. Most of the December increase was in heavy construction.

In December, for the second straight month, manufacturing employment was little changed. Over the year, manufacturing lost 248,000 jobs, with most of the decline occurring during the first half of the year. In durable goods, aircraft manufacturing continued to lose jobs. The December loss was offset by small gains in other durable goods industries, including electronic components, where employment increased by 2,000 over the month and by 10,000 since its most recent low in April. Fabricated metals also added 2,000 jobs in December; since its most recent low point in August, this industry has added 6,000 jobs. Within nondurable goods industries, apparel and textiles continued their long-term employment declines, with job losses in 1999 that totaled 66,000 and 32,000, respectively.

Within mining, employment in oil and gas extraction continued to trend upward. The industry has added 6,000 jobs since August; this follows heavy losses through most of 1998 and the first half of 1999.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls was unchanged in December at 34.5 hours, seasonally adjusted. The manufacturing workweek also was unchanged at 41.7 hours; manufacturing overtime was up by 0.1 hour to 4.7 hours. (See table B-8.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls edged up by 0.1 percent to 149.3 (1982=100), seasonally adjusted. The manufacturing index edged down by 0.1 percent in December to 106.0. (See table B-9.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls increased by 6 cents in December to \$13.46, seasonally adjusted. This follows a gain of 1 cent in November. Hourly earnings rose by 11 cents in each of the last 2 quarters of 1999, following gains of 13 cents in each of the first 2 quarters of the year. Over the month, average weekly earnings rose by 0.4 percent to \$464.37, seasonally adjusted. Over the year, average hourly earnings rose by 3.7 percent, and average weekly earnings increased by 3.4 percent. (See table B-11.)

Planned Changes in the Household Survey Data

Effective with the release of data for January 2000, revisions will be introduced into the population controls used for the household survey. The changes will result in a downward shift in the estimated total civilian noninstitutional population 16 years and over for January 2000. The changes will subtract approximately 193,000 from the previously estimated population trend growth between December 1999 and January 2000. The impact will vary for subpopulations such as men (-67,000), women (-127,000), Hispanic (-23,000), and non-Hispanic (-171,000). The effect of the change on labor force estimates will be described in the February 2000 issue of *Employment and Earnings*.

Scheduled Release Dates

Employment and unemployment data are scheduled for initial release on the following dates:

Reference month	Release date	Reference month	Release date
January	February 4	April	May 5
February	March 3	May	June 2
March	April 7	June	July 7

Revision of Seasonally Adjusted Labor Force Series

Robert J. McIntire

The original data values for many economic time series are often substantially influenced by seasonality, reflecting recurring calendar-related effects caused by weather, holidays, the opening and closing of schools, and other such seasonal events. Seasonal adjustment is a process used to estimate and remove that seasonality. The reason for doing so is to make it easier to observe and analyze the nonseasonal movements in the series, particularly short-term movements associated with business cycles.

The seasonal adjustment process produces estimates of seasonality, called seasonal factors, for the period of observations used in the process and for some projected observations immediately following that period. For the labor force series, initial seasonal adjustment of current data is done using the projected seasonal factors, which are estimates of how much the original unadjusted values can be expected to deviate from underlying trend-cycle levels due to recurring behavior as projected from average seasonal patterns in the recent past.

Even though seasonality involves regularly recurring patterns, it does tend to change or at least evolve over time, creating a need for periodic reestimation of factors and revision of recently adjusted estimates. By including more recent data in the estimation process, the revision process can provide better estimates of how much the original, unadjusted estimates actually deviated from underlying trend-cycle levels during the recent period, thereby improving the historical seasonally adjusted data for that period. In addition, the new information is incorporated to produce the new projected factors to be used for current seasonal adjustment.

Therefore, at the end of each calendar year, the Bureau of Labor Statistics reestimates the seasonality of the unemployment, employment, and other labor force series derived from the Current Population Survey (CPS) by including another full year of data in the estimation process. Based on this annual reestimation, BLS issues the projected factors for the first 6 months of the new year as well as revised estimates of historical seasonally adjusted data for the last 5 years. Each year's data are generally subject to five revision cycles before the values are considered final. The fifth and final revisions in the earliest of the 5 years are usually quite small, while the first-time revisions in the most recent year can be much more substantial, although even these

rarely alter the essential trends observed in the initial major estimates. This year's revisions incorporate data through December 1999 and provide revised estimates for January 1995 through December 1999 for all previously seasonally adjusted labor force series.

Table 1 contains the new projected seasonal factors to be applied during the first 6 months of 2000 to the 12 component series used in the computation of the seasonally adjusted civilian labor force and unemployment rate. (See the section on aggregation procedures later in the article.) Projected factors for the last 6 months of 2000 will be published in the July issue of this publication.

Effect of revisions

One of the criteria used to evaluate alternative methods of seasonal adjustment is how close initial estimates are to subsequent revisions. Policymakers and analysts must make determinations based on current information, and so it is important that the initial estimates of current factors for the seasonal adjustment of major economic series produce estimates of level and change that are as close as possible to the improved estimates that will be made after more data have become available. Even though the revisions currently being released for the 1999 seasonally adjusted data are not final, the first revisions are usually more substantial than, and often indicate the direction of, any subsequent revisions. Therefore, it is appropriate to compare these first revisions with the initial estimates. Table 2 shows the civilian unemployment rates for 1999 as first computed and as revised, as well as the changes due to revision. Rounded to one decimal place as published, the rates were unchanged in 11 of the 12 months, and changed by 0.1 percentage point in the remaining month. The effects of the revisions would be more evident if the rates were computed to more decimal places.

Adjustment methods and procedures

The official seasonal adjustment procedure for the labor force series is the X-11 ARIMA program, which was developed at Statistics Canada during the 1970s as an extension of and improvement to the widely used X-11 method developed at

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¹ The primary documentation for the X-11 ARIMA procedure is *The X-ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum (Statistics Canada Catalogue No. 12-564E, January 1983). (ARIMA is an acronym for AutoRegressive Integrated Moving Average.) The X-11 method is described in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, by Julius Shiskin, Alan Young, and John Musgrave (Technical Paper No. 15, Bureau of the Census, 1967).

Table 1. Pre-1994 prior adjustment and January–June 2000 seasonal adjustment factors for the 12 major civilian labor force components

Procedure and series	Prior adjustment factors	Seasonal adjustment factors					
		January	February	March	April	May	June
Multiplicative adjustment (Divide factor into original value)							
Agricultural employment:							
Men, 20 years and over	(¹)	.892	.874	.929	1.018	1.058	1.084
Women, 20 years and over	.776	.910	.923	.930	.965	1.019	1.066
Men, 16 to 19 years	.860	.642	.651	.751	.890	1.201	1.502
Women, 16 to 19 years	.853	.604	.711	.744	.802	1.246	1.596
Nonagricultural employment:							
Men, 20 years and over	² .996, 1.003	.989	.992	.996	.998	1.002	1.005
Women, 20 years and over	³ .996	.997	1.000	1.004	1.001	1.001	.994
Unemployment:							
Men, 20 years and over	.938	1.195	1.167	1.124	.977	.927	.949
Women, 20 years and over	.976	1.056	1.031	1.022	.927	.933	1.026
Additive adjustment (Subtract factor from original value)							
Nonagricultural employment:							
Men, 16 to 19 years	-68	-330	-275	-233	-216	-43	394
Women, 16 to 19 years	-96	-218	-167	-122	-176	-93	278
Unemployment:							
Men, 16 to 19 years	-47	32	-30	2	-62	-32	205
Women, 16 to 19 years	(¹)	-40	-16	-42	-64	25	208

¹ No prior adjustment was done.

² For this series, the factors are pre-1997 and pre-1999. The first factor shows the adjustment of pre-1997 data relative to subsequent data, the second factor shows the adjustment of pre-1999 data relative

to subsequent data. The actual net adjustment to pre-1997 data is the product of the two factors.

³ For this series, the prior adjusted period was pre-1999 rather than pre-1994.

the U.S. Bureau of the Census in the 1960s.¹ The X-11 ARIMA method improves current estimates for most series by allowing recent observations, especially those of the last 6 months, to weigh more heavily in the estimates of current and recent seasonal factors than did the X-11 alone. The method provides this improvement through the use of ARIMA models to extend the data series by 12 months. The X-11 algorithm for seasonal adjustment is then applied to the extended series.

ARIMA models. ARIMA projections are based only on the past experience observed in a series itself. ARIMA models have proved to have good properties for short-term projection or extrapolation of a large class of time series, especially in a seasonal adjustment context, since the extrapolations tend to track intra-year movements quite well. The ARIMA models in the X-11 ARIMA program used to seasonally adjust the labor force series are of the Box-Jenkins type.² They can generally be described with the notation:

(p,d,q)(P,D,Q) TRANSFORMATION,

Where:

- (1) p is the number of regular (nonseasonal) autoregressive parameters
- (2) d is the number of regular differences
- (3) q is the number of regular moving average parameters
- (4) P is the number of seasonal autoregressive parameters
- (5) D is the number of seasonal differences
- (6) Q is the number of seasonal moving average parameters
- (7) TRANSFORMATION may be NONE, LOG, or POWER(n).

While the lettered elements within the parentheses of the model specifications can theoretically take on many values, in practice, only small values are useful. (See table 3.)

For each labor force series which has been extended based on an ARIMA model, the model has been specifically chosen as well suited to the particular series, based on a set of

² For a more detailed discussion of ARIMA models, refer to previously cited Dagum (1983) and to G.E.P. Box and G.M. Jenkins, *Time Series Analysis, Forecasting and Control* (San Francisco, Holden Day, 1970); and C.W.J. Granger and P. Newbold, *Forecasting Economic Time Series* (New York, Academic Press, 1977).

Table 2. Seasonally adjusted unemployment rates in 1999 and change due to revision

Month	As first computed	As revised	Change
January	4.3	4.3	0
February	4.4	4.4	0
March	4.2	4.2	0
April	4.3	4.3	0
May	4.2	4.2	0
June	4.3	4.3	0
July	4.3	4.3	0
August	4.2	4.2	0
September	4.2	4.2	0
October	4.1	4.1	0
November	4.1	4.1	0
December	4.0	4.1	0.1

¹ This rate reflects the use of seasonal factors projected for December 1999 as published in the July 1999 issue of *Employment and Earnings* and was subject to revision before regular publication of December data.

established criteria. The criteria essentially require a model to: (1) Fit the series well, (2) have low average forecasting errors in the last 3 years prior to the projected year, and (3) produce residuals (the differences between the observed values and the values forecast by the model for the observed period) which follow a random pattern. Acceptable ARIMA models have been identified and were used for 175 of the 181 labor force series which were directly adjusted at the end of 1999, including all 12 major civilian labor force components, whose ARIMA models are shown in table 3. The model for one of those major components—nonagricultural employment for men 16 to 19 years—is different from that used last year. The six remaining series for which acceptable models have not been identified were simply run through the X-11 part of the program without any ARIMA extrapolations.

X-11 procedures. The procedures used for this year's adjustment of the labor force series within the X-11 part of the process were different from the standard procedures of most previous years in one respect. Because of the changes introduced at the beginning of 1994, 1997, and 1999 in the survey and processing procedures on which the labor force series estimates are based, prior adjustment factors were used in these X-11 ARIMA runs to link the pre-1994, pre-1997, and/or pre-1999 data with the subsequent data for purposes of seasonal adjustment.³ Without prior adjustment, those changes could have caused distortion in the seasonal de-

³ For further discussion of these prior adjustment factors and the changes that they control for, see the following articles in previous issues of this publication: "Revisions in the Current Population Survey Effective January 1994" in the February 1994 issue; "Revisions in Household Survey Data Effective February 1996" in the March 1996 issue; "Revisions in the Current Population Survey Effective January 1997" in the February 1997 issue; "Revision of Seasonally Adjusted Labor Force Series" in the January 1998 issue; "Revisions in the Current Population Survey Effective January 1999" in the February 1999 issue; and "New Seasonal Adjustment Factors for Household Data Series" in the July 1999 issue.

composition. The prior adjustment factors used for all 12 major components are shown in Table 1 alongside the seasonal factors. A 10-year time period, including data from January 1990 through December 1999, was used for the adjustment of all the labor force series except for the 8 educational attainment series (which begin in 1992).

The X-11 method of seasonal adjustment contained in the X-11 ARIMA procedure assumes that the original series, including the 12 extrapolated observations if an ARIMA model has been applied, is either the product or the sum of three components—trend-cycle, seasonal, and irregular. The method uses either a ratio-to- or difference-from-moving-average approach to estimate the components, depending on whether the multiplicative or additive model is used. The seasonally adjusted series values are computed by dividing each month's original value by the corresponding seasonal factor if the multiplicative model is used, or by subtracting the factor if the additive model is used. Of the 12 major civilian labor force components, the 4 teenage unemployment and nonagricultural employment series were adjusted using the additive model, and the other 8 series with the multiplicative model. Of all the 181 directly adjusted series, 48 were adjusted with the additive model, including most teenage employment and unemployment series, for which the seasonal components were found to be fairly independent of the trend-cycle.

Moving-holiday adjustment. Two of the series directly adjusted with multiplicative models were seasonally adjusted using the moving-holiday extension of X-11 ARIMA which was developed at BLS. Both holiday-adjusted series—persons at work on part-time schedules for noneconomic reasons who usually work part time in all industries and nonagricultural industries—had tested as having significant and well-defined effects in their April data related to the timing of Easter. A detailed discussion of the nature of the Easter

Table 3. ARIMA models used in end-of-1999 seasonal adjustment for the 12 major civilian labor force components

Series	Model	Transformation
Agricultural employment:		
Men, 20 years and over	(1,0,0)(0,1,1)	LOG
Women, 20 years and over	(0,1,1)(0,1,1)	LOG
Men, 16 to 19 years	(0,1,2)(0,1,1)	NONE
Women, 16 to 19 years	(2,1,2)(0,1,1)	NONE
Nonagricultural employment:		
Men, 20 years and over	(0,1,1)(0,1,1)	LOG
Women, 20 years and over	(0,1,4)(0,1,1)	LOG
Men, 16 to 19 years	(4,1,1)(0,1,1)	NONE
Women, 16 to 19 years	(2,1,0)(0,1,1)	NONE
Unemployment:		
Men, 20 years and over	(0,1,3)(0,1,1)	LOG
Women, 20 years and over	(0,1,1)(0,1,1)	LOG
Men, 16 to 19 years	(0,1,1)(0,1,1)	NONE
Women, 16 to 19 years	(2,1,2)(0,1,1)	NONE

effect in these series and of the procedure used to control for it as part of the seasonal adjustment process was included in the January 1990 version of this article.

Six-month updates. The current official practice for the seasonal adjustment of the labor force series involves the running of all directly adjusted series through X-11 ARIMA twice each year. This is done after receipt of June and December data, with 6 months of projected factors drawn from each run and historical revisions drawn from the end-of-year run. This practice allows, among other things, the prior publication of seasonal factors, which historically has been regarded by the Bureau of Labor Statistics and other statistical agencies as an important way of ensuring the openness of their seasonal adjustment procedures, especially where very sensitive indicators such as the unemployment rate have been involved. A number of research studies, including a 1987 paper on the labor force series⁴, have indicated that the alternative practice of concurrent adjustment, where the seasonal adjustment procedure is run with all available data each month and factors cannot be published ahead of time, generally produces initial seasonally adjusted estimates requiring smaller revisions than those produced by adjustment using projected factors. The BLS is continuing to compute and evaluate concurrent adjustment for the labor force series.

Aggregation procedures

BLS maintains and publishes several hundred seasonally adjusted labor force series in addition to the 181 directly adjusted series discussed above. These additional series are produced by arithmetically combining or aggregating the directly adjusted series with each other or, in some cases, with series on population which are not seasonally adjusted because they are not considered to have any significant seasonal variation. For example, the seasonally adjusted levels of total unemployment, civilian employment, and civilian labor force, and the seasonally adjusted unemployment rate for all civilian workers, are all produced by aggregation of some or all of the seasonally adjusted results for the 12 major civilian labor force components. The seasonally adjusted level of total unemployment is the sum of the seasonally adjusted levels of unemployment for the four age-sex groups—men and women 16 to 19, and men and women 20 years and over. Seasonally adjusted civilian employment is the sum of the seasonally adjusted levels of employment for the eight employment components—the same four age-sex groups as noted above employed in nonagricultural and

agricultural industries. The seasonally adjusted civilian labor force is the sum of all 12 components. The seasonally adjusted civilian unemployment rate is calculated by taking the total seasonally adjusted unemployment level as a percent of the total seasonally adjusted civilian labor force.

The principal reason for producing many of the major seasonally adjusted estimates for the labor force by aggregation rather than by direct adjustment is that this approach ensures that the major seasonally adjusted totals will be arithmetically consistent with at least one major set of components. If the totals were directly adjusted along with the components, such consistency would not, in all likelihood, occur, since the X-11 is not a sum-preserving procedure. That is, the sum of the result for two or more directly adjusted series will not generally be the same as the result of directly adjusting the sum of the unadjusted versions of the same series. Another factor is that it would generally be inappropriate to apply seasonal factors computed for an aggregate series to the components of the aggregate. The various labor force components tend to have significantly different patterns of seasonal variation; for example, teenage unemployment tends to peak in June, while unemployment of adult men tends to peak in the winter months of January and February. In order to estimate properly these varying seasonal patterns, it is necessary to adjust the components directly. Of course, one of the implications of producing seasonally adjusted estimates for many major series by aggregation is that exact factors cannot be projected for those series. However, implicit seasonal adjustment factors can be calculated after the fact by taking the ratio of the unadjusted aggregate to the seasonally adjusted aggregate, or, for additive implicit factors, the difference between those two aggregates.

Availability of revised series

This issue of *Employment and Earnings* contains revised monthly and quarterly data for the most recent 13 months and 12 calendar quarters for many seasonally adjusted labor force series. These revisions replace the seasonally adjusted estimates previously published for those periods. Revised historical seasonally adjusted labor force data also are available in various forms on the Internet (stats.bls.gov), including ftp access (ftp://ftp.bls.gov/pub/special.requests/lf) to all the revised data. The seasonally adjusted data last published for 1994 and earlier years were not further revised.

The January-June 2000 factors for any of the directly adjusted series beyond the 12 major components can be obtained from BLS upon request. Requests for the seasonal factors or inquiries concerning the seasonal adjustment methodology used for the labor force data should be addressed to the Division of Data Development and Publications, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics, Washington, DC 20212.

⁴ G.R. Methee and R.J. McIntire, "An Evaluation of Concurrent Seasonal Adjustment for the Major Labor Force Series," in the 1987 *Proceedings of the Business and Economic Statistics Section*, American Statistical Association.

Data on Persons Earning the Prevailing Federal Minimum Wage

Steven E. Haugen

This issue of *Employment and Earnings* introduces two tables that contain annual data on wage and salary workers paid hourly rates who earn the prevailing Federal minimum wage (\$5.15 per hour in 1999) or less. Annual average data for 1999 are presented in tables 44 and 45 (pp. 223-224). Table 44 shows data by major demographic characteristics and full- or part-time status. Table 45 contains data by occupation and industry.

Information on hourly-paid workers with earnings at or below the prevailing Federal minimum wage is obtained from the Current Population Survey (CPS). The CPS is a monthly sample survey of about 50,000 households that is used to collect employment and unemployment data for the Nation. This survey also includes a series of questions on earnings that are asked of one-fourth of the monthly CPS sample households. Data on minimum wage workers are derived from survey questions that identify hourly-paid workers and obtain their hourly wage rate.

When a person is identified as an hourly-paid worker, the respondent for the household (typically one member of the household reports for all other members) is asked: "What is ____'s hourly rate of pay on this job?" exclusive of any overtime pay, tips, and commissions. Data refer to earnings on a person's sole or principal job, and exclude all self-employed workers, regardless of whether or not their business is incorporated. Reported wage rates equal to the prevailing Federal minimum wage are tabulated as "At prevailing Federal minimum wage" and wage rates below the minimum are tabulated as "Below prevailing Federal minimum wage."

BLS has tabulated data on minimum and subminimum wage workers from the CPS since 1979, when the Bureau began collecting earnings data on a regular monthly basis in this survey. BLS has incorporated the data in analytical pieces; the unpublished data, which always have been available upon request, have been widely used to study the number and characteristics of minimum wage workers. Over the years, the demand for these data has grown so dramatically that BLS has decided to publish the figures on a regular basis.

Users of these data should be aware that hourly-paid workers with earnings at or below the prevailing Federal minimum wage may or may not be subject to (or exempt from) the minimum wage provisions of the Fair Labor Standards Act (FLSA), the Federal law that establishes a minimum wage standard.¹ Although the law covers the majority of wage and salary workers in the United States, the FLSA contains numerous exemptions and coverage exclusions. For example, some workers, such as those in bona fide executive, administrative, and professional occupations, are excluded from the minimum wage provisions of the FLSA through specific exemptions. In addition, certain small retail or service establishments are not covered by the law based on their limited sales volume.

Not only are there numerous exemptions under the minimum

wage statute, there also are provisions under the law that allow certain workers to be paid a cash wage less than the minimum. For example, tipped employees can be paid a cash wage lower than the minimum, as long as their tips, combined with the cash wage received from their employer, equals the prevailing minimum. Thus, the existence of workers with wages below the Federal minimum wage does not necessarily indicate violations of the FLSA.

Much of the information needed to determine whether the law applies to particular individuals is not readily available from a household survey such as the CPS. For example, even if asked in the survey, few household respondents would likely know the annual sales volume of their employer. For this reason, it is not possible to accurately determine the legal status (with respect to the FLSA) of all minimum and subminimum wage earners, as measured by the CPS.

Users also should keep in mind that response error in the survey may result in a number of workers being reported with wages below the minimum when they actually earned the minimum wage (or more). Some survey respondents (who may be proxy respondents) might have rounded hourly earnings to the nearest dollar, and depending on the prevailing minimum wage level, may report a wage less than the minimum, even though the reference person was, in fact, paid the minimum wage. For example, in 1999, some persons earning the prevailing minimum wage of \$5.15 might have been reported with a wage of \$5.00, simply because of rounding. Similarly, some might have been reported with a wage of \$5.25 or \$5.50.

It also should be noted that estimates of minimum and subminimum wage workers pertain to workers paid at hourly rates (about three-fifths of all wage and salary workers); salaried and other non-hourly workers are excluded. As such, the actual number of workers whose hourly pay would be at or below the prevailing Federal minimum wage is undoubtedly understated. Research has shown that a relatively small number and share of salaried and other workers not paid by the hour have earnings that, when translated into hourly rates, are at or below the minimum wage. However, these workers are not included in the attached tables because of difficulties in estimating the hourly earnings of those not paid by the hour.²

Finally, users should remember that, as with all data from a sample survey, estimates are subject to both sampling and nonsampling errors (the latter includes the rounding issue mentioned above). For more information on these sources of error, see the "Explanatory Notes and Estimates of Error" section in the back of this publication.

¹ See the Fair Labor Standards Act of 1938. For information on recent estimates of coverage and compliance under the law, see Minimum Wage and Overtime Hours Under the Fair Labor Standards Act, U.S. Department of Labor, Employment Standards Administration, Wage and Hour Division, June 1998.

² For further information, see Steven E. Haugen and Earl F. Mellor, "Estimating the number of minimum wage workers," *Monthly Labor Review*, January 1990, pp. 70-74.

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Summary table A. Major labor force status categories, seasonally adjusted

(Numbers in thousands)

Category	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Labor force status													
Civilian noninstitutional population	206,270	206,719	206,873	207,036	207,236	207,427	207,632	207,828	208,038	208,265	208,483	208,666	208,832
Civilian labor force	138,545	139,232	139,137	138,804	139,086	139,013	139,332	139,338	139,372	139,475	139,897	139,834	140,108
Percent of population	67.2	67.4	67.3	67.0	67.1	67.0	67.1	67.0	67.0	67.0	67.0	67.0	67.1
Employed	132,517	133,225	133,029	132,976	133,054	133,190	133,398	133,399	133,530	133,650	133,940	134,098	134,420
Percent of population	64.2	64.4	64.3	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.4
Unemployed	8,028	8,007	8,108	5,828	6,032	5,823	5,934	5,937	5,842	5,825	5,757	5,736	5,688
Not in labor force	67,725	67,487	67,736	68,232	68,150	68,414	68,300	68,492	68,666	68,790	68,786	68,832	68,724
Unemployment rates													
All workers	4.4	4.3	4.4	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.1	4.1	4.1
Men, 20 years and over	3.6	3.5	3.7	3.3	3.5	3.6	3.5	3.5	3.5	3.4	3.5	3.3	3.3
Women, 20 years and over	3.9	3.8	3.8	3.9	4.0	3.7	3.8	3.9	3.7	3.7	3.5	3.6	3.6
Both sexes, 16 to 19 years	14.0	15.1	14.2	14.2	14.1	13.1	13.6	13.2	13.5	14.6	13.8	14.0	13.8
White	3.8	3.8	3.8	3.6	3.8	3.7	3.8	3.7	3.7	3.6	3.5	3.5	3.5
Black	7.8	7.8	8.2	8.0	7.8	7.6	7.6	8.6	7.8	8.3	8.3	8.0	7.9
Hispanic origin	7.8	6.7	6.8	6.0	6.8	6.7	8.6	6.3	6.5	6.6	6.3	6.1	5.9

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

Summary table B. Employment, hours, and earnings of production or nonsupervisory workers on nonfarm payrolls, seasonally adjusted

(Numbers in thousands)

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
Employment													
Total	127,186	127,378	127,730	127,813	128,134	128,162	128,443	128,816	128,945	129,048	129,332	129,554	129,869
Total private	107,213	107,386	107,676	107,726	108,035	108,085	108,338	108,663	108,735	108,830	109,095	109,296	109,547
Goods-producing industries	25,354	25,315	25,329	25,285	25,288	25,199	25,180	25,247	25,148	25,186	25,198	25,260	25,277
Mining	570	560	553	550	538	531	526	528	524	527	528	527	529
Construction	6,173	6,170	6,238	6,232	6,277	6,239	6,258	6,270	6,246	6,293	6,314	6,369	6,385
Manufacturing	18,611	18,585	18,538	18,503	18,473	18,429	18,396	18,449	18,378	18,366	18,356	18,364	18,383
Service-producing industries	101,832	102,063	102,401	102,528	102,846	102,963	103,263	103,569	103,797	103,862	104,134	104,294	104,592
Transportation and public utilities	6,684	6,708	6,723	6,732	6,750	6,758	6,781	6,799	6,813	6,831	6,841	6,860	6,892
Wholesale trade	6,901	6,924	6,937	6,947	6,965	6,977	6,993	7,012	7,031	7,041	7,064	7,066	7,082
Retail trade	22,525	22,556	22,648	22,611	22,724	22,748	22,796	22,888	22,888	22,862	22,891	22,887	22,952
Finance, insurance, and real estate	7,542	7,570	7,581	7,595	7,611	7,621	7,636	7,647	7,650	7,653	7,668	7,678	7,690
Services	38,207	38,313	38,458	38,556	38,697	38,782	38,952	39,055	39,205	39,257	39,433	39,545	39,654
Government	19,973	19,992	20,054	20,087	20,099	20,077	20,105	20,153	20,210	20,218	20,237	20,258	20,322
Over-the-month change													
Total	345	192	352	83	321	28	281	373	129	103	284	222	315
Total private	320	173	290	50	309	50	253	325	72	95	265	201	251
Goods-producing industries	56	-39	14	-44	3	-89	-19	67	-99	38	12	62	17
Mining	-4	-10	-7	-3	-12	-7	-5	2	-4	3	1	-1	2
Construction	88	-3	68	-6	45	-38	19	12	-24	47	21	55	16
Manufacturing	-28	-26	-47	-35	-30	-44	-33	53	-71	-12	-10	8	-1
Service-producing industries	289	231	338	127	318	117	300	306	228	65	272	160	298
Transportation and public utilities	13	24	15	9	18	8	23	18	14	18	10	19	32
Wholesale trade	10	23	13	10	18	12	16	19	19	10	23	2	16
Retail trade	82	31	92	-37	113	24	48	107	-15	-26	29	-4	65
Finance, insurance, and real estate	22	28	11	14	16	10	15	11	3	3	15	10	12
Services	137	106	145	98	141	85	170	103	150	52	176	112	109
Government	25	19	62	33	12	-22	28	48	57	8	19	21	64
Hours of work¹													
Total private	34.6	34.6	34.6	34.5	34.4	34.4	34.5	34.5	34.5	34.4	34.5	34.5	34.5
Manufacturing	41.7	41.6	41.6	41.5	41.6	41.7	41.7	41.9	41.8	41.8	41.8	41.7	41.7
Overtime	4.5	4.5	4.5	4.5	4.3	4.6	4.7	4.7	4.7	4.7	4.7	4.6	4.7
Indexes of aggregate weekly hours (1982=100)¹													
Total private	146.6	146.8	147.3	146.8	147.0	147.2	147.8	148.3	148.4	148.2	148.8	149.2	149.3
Manufacturing	107.5	107.1	106.8	106.5	106.5	106.5	106.3	107.3	106.4	106.4	106.2	106.1	106.0
Earnings¹													
Average hourly earnings, total private:													
Current dollars	\$12.98	\$13.04	\$13.06	\$13.11	\$13.14	\$13.18	\$13.24	\$13.28	\$13.29	\$13.35	\$13.39	\$13.40	\$13.46
Constant (1982) dollars ²	7.81	7.83	7.84	7.86	7.83	7.85	7.89	7.88	7.87	7.86	7.87	7.86	N.A.
Average weekly earnings, total private	449.11	451.18	451.88	452.30	452.02	453.39	456.78	458.16	458.51	459.24	461.96	462.30	464.37

¹ Data relate to private production or nonsupervisory workers.

² The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

N.A. = not available.

^p = preliminary.

Chart 1. Nonfarm payroll employment, seasonally adjusted, 1995-99

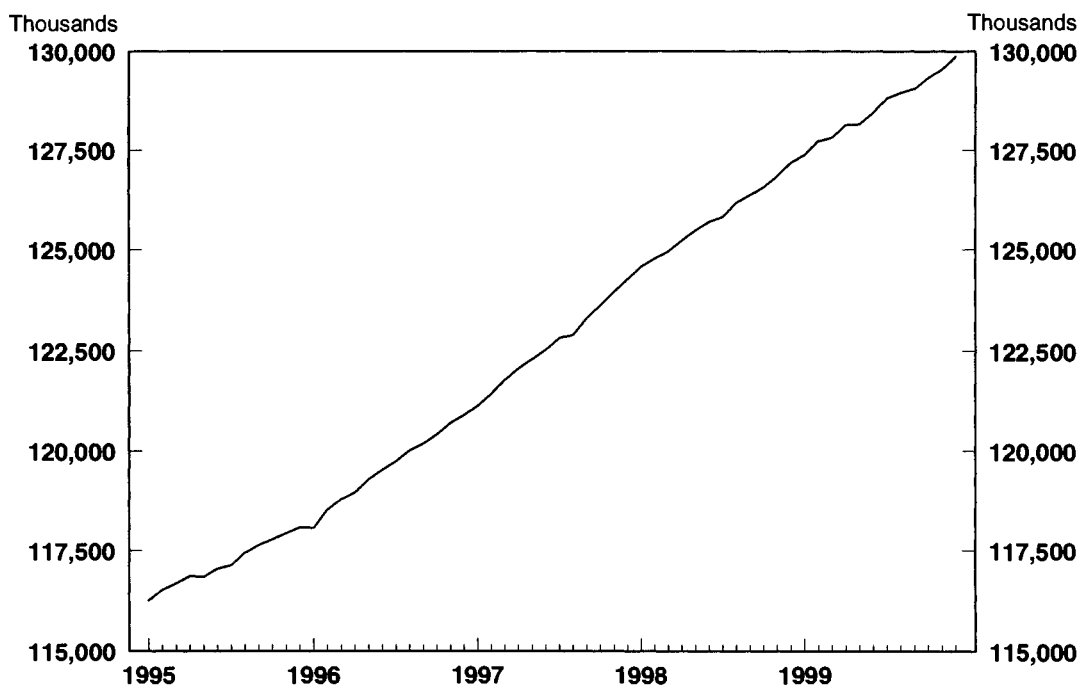
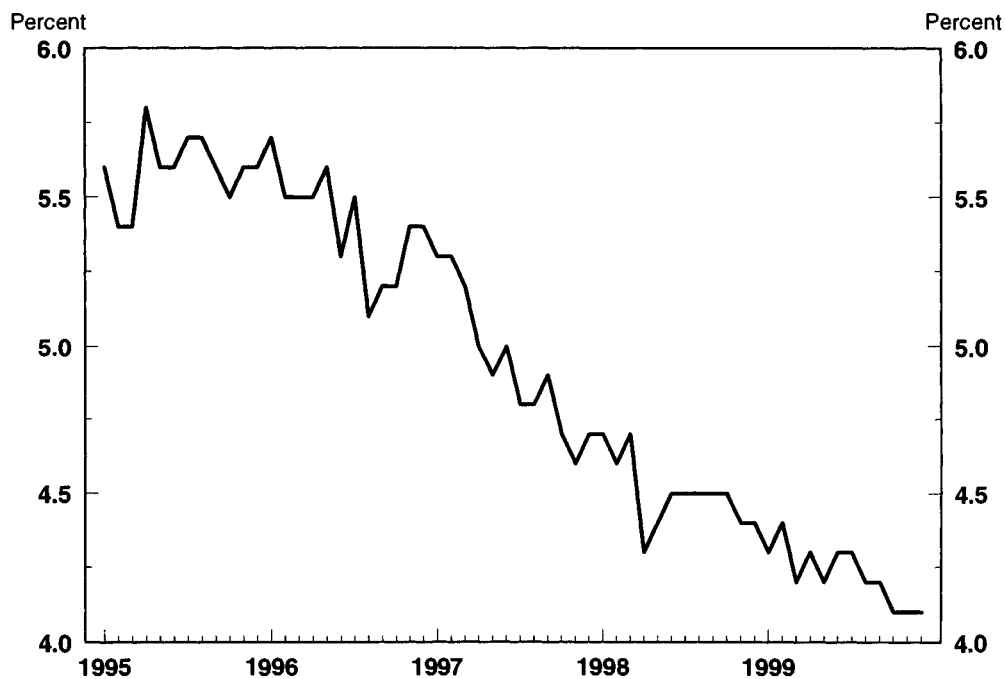


Chart 2. Unemployment rate, seasonally adjusted, 1995-99



NOTE: Beginning in 1997, data incorporate revisions in the population controls. Beginning in 1998, data incorporate new composite estimation procedures and updated population controls. Beginning in 1999, data incorporate revisions in the population controls. These changes affect comparability with data for prior periods.

HOUSEHOLD DATA HISTORICAL

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1966 to date

(Numbers in thousands)

Year and month	Civilian noninsti- tutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Unemployed		
				Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1966	128,058	75,770	59.2	72,895	56.9	3,979	68,915	2,875	3.8	52,288
1967	129,874	77,347	59.6	74,372	57.3	3,844	70,527	2,975	3.8	52,527
1968	132,028	78,737	59.6	75,920	57.5	3,817	72,103	2,817	3.6	53,291
1969	134,335	80,734	60.1	77,902	58.0	3,606	74,296	2,832	3.5	53,602
1970	137,085	82,771	60.4	78,678	57.4	3,463	75,215	4,093	4.9	54,315
1971	140,216	84,382	60.2	79,367	56.6	3,394	75,972	5,016	5.9	55,834
1972 ¹	144,126	87,034	60.4	82,153	57.0	3,484	78,669	4,882	5.6	57,091
1973 ¹	147,096	89,429	60.8	85,064	57.8	3,470	81,594	4,365	4.9	57,667
1974	150,120	91,949	61.3	86,794	57.8	3,515	83,279	5,156	5.6	58,171
1975	153,153	93,775	61.2	85,846	56.1	3,408	82,438	7,929	8.5	59,377
1976	156,150	96,158	61.6	88,752	56.8	3,331	85,421	7,406	7.7	59,991
1977	159,033	99,009	62.3	92,017	57.9	3,283	88,734	6,991	7.1	60,025
1978 ¹	161,910	102,251	63.2	96,048	59.3	3,387	92,661	6,202	6.1	59,659
1979	164,863	104,962	63.7	98,824	59.9	3,347	95,477	6,137	5.8	59,900
1980	167,745	106,940	63.8	99,303	59.2	3,364	95,938	7,637	7.1	60,806
1981	170,130	108,670	63.9	100,397	59.0	3,368	97,030	8,273	7.6	61,460
1982	172,271	110,204	64.0	99,526	57.8	3,401	96,125	10,678	9.7	62,067
1983	174,215	111,550	64.0	100,834	57.9	3,383	97,450	10,717	9.6	62,665
1984	176,383	113,544	64.4	105,005	59.5	3,321	101,685	8,539	7.5	62,839
1985	178,206	115,461	64.8	107,150	60.1	3,179	103,971	8,312	7.2	62,744
1986 ¹	180,587	117,834	65.3	109,597	60.7	3,163	106,434	8,237	7.0	62,752
1987	182,753	119,865	65.6	112,440	61.5	3,208	109,232	7,425	6.2	62,888
1988	184,613	121,669	65.9	114,968	62.3	3,169	111,800	6,701	5.5	62,944
1989	186,393	123,869	66.5	117,342	63.0	3,199	114,142	6,528	5.3	62,523
1990 ¹	189,164	125,840	66.5	118,793	62.8	3,223	115,570	7,047	5.6	63,324
1991	190,925	126,346	66.2	117,718	61.7	3,269	114,449	8,628	6.8	64,578
1992	192,805	128,105	66.4	118,492	61.5	3,247	115,245	9,613	7.5	64,700
1993	194,838	129,200	66.3	120,259	61.7	3,115	117,144	8,940	6.9	65,638
1994 ¹	196,814	131,056	66.6	123,060	62.5	3,409	119,651	7,996	6.1	65,758
1995	198,584	132,304	66.6	124,900	62.9	3,440	121,460	7,404	5.6	66,280
1996	200,591	133,943	66.8	126,708	63.2	3,443	123,264	7,236	5.4	66,647
1997 ¹	203,133	136,297	67.1	129,558	63.8	3,399	126,159	6,739	4.9	66,837
1998 ¹	205,220	137,673	67.1	131,463	64.1	3,378	128,085	6,210	4.5	67,547
1999 ²	207,753	139,368	67.1	133,488	64.3	3,281	130,207	5,880	4.2	68,385
Monthly data, seasonally adjusted ³										
1998: December	206,270	138,545	67.2	132,517	64.2	3,241	129,276	6,028	4.4	67,725
1999: January ²	206,719	139,232	67.4	133,225	64.4	3,297	129,928	6,007	4.3	67,487
February	206,873	139,137	67.3	133,029	64.3	3,328	129,701	6,108	4.4	67,736
March	207,036	138,804	67.0	132,976	64.2	3,290	129,686	5,828	4.2	68,232
April	207,236	139,086	67.1	133,054	64.2	3,341	129,713	6,032	4.3	68,150
May	207,427	139,013	67.0	133,190	64.2	3,290	129,900	5,823	4.2	68,414
June	207,632	139,332	67.1	133,398	64.2	3,330	130,068	5,934	4.3	68,300
July	207,828	139,336	67.0	133,399	64.2	3,278	130,121	5,937	4.3	68,492
August	208,038	139,372	67.0	133,530	64.2	3,234	130,296	5,842	4.2	68,666
September	208,265	139,475	67.0	133,650	64.2	3,179	130,471	5,825	4.2	68,790
October	208,483	139,697	67.0	133,940	64.2	3,238	130,702	5,757	4.1	68,786
November	208,666	139,834	67.0	134,098	64.3	3,310	130,788	5,736	4.1	68,832
December	208,832	140,108	67.1	134,420	64.4	3,279	131,141	5,688	4.1	68,724

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

² Beginning in January 1999, data are not strictly comparable with data for 1998 and earlier years because of revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1999" in the February

1999 issue of this publication.

³ The population figures are not adjusted for seasonal variation.

NOTE: Seasonally adjusted data shown in tables A-1 through A-13 have been revised based on the experience through December 1999. Data for 1995-99 are subject to revision. See the article in this issue for additional information.

A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1988 to date

(Numbers in thousands)

Sex, year, and month	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Unemployed		
				Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
MEN										
1988	87,857	66,927	76.2	63,273	72.0	2,493	60,780	3,655	5.5	20,930
1989	88,762	67,840	76.4	64,315	72.5	2,513	61,802	3,525	5.2	20,923
1990 ¹	90,377	69,011	76.4	65,104	72.0	2,546	62,559	3,906	5.7	21,367
1991	91,278	69,168	75.8	64,223	70.4	2,589	61,634	4,946	7.2	22,110
1992	92,270	69,964	75.8	64,440	69.8	2,575	61,866	5,523	7.9	22,306
1993	93,332	70,404	75.4	65,349	70.0	2,478	62,871	5,055	7.2	22,927
1994 ¹	94,355	70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,538
1995	95,178	71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,818
1996	96,206	72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,119
1997 ¹	97,715	73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,454
1998 ¹	98,758	73,959	74.9	70,693	71.6	2,553	68,140	3,266	4.4	24,799
1999 ²	99,722	74,512	74.7	71,446	71.6	2,432	69,014	3,066	4.1	25,210
Monthly data, seasonally adjusted ³										
1998:										
December	99,309	74,382	74.9	71,173	71.7	2,421	68,752	3,209	4.3	24,927
1999:										
January ²	99,198	74,506	75.1	71,368	71.9	2,456	68,912	3,138	4.2	24,692
February	99,279	74,462	75.0	71,230	71.7	2,449	68,781	3,232	4.3	24,817
March	99,362	74,218	74.7	71,269	71.7	2,426	68,843	2,949	4.0	25,144
April	99,465	74,270	74.7	71,208	71.6	2,489	68,719	3,062	4.1	25,195
May	99,563	74,318	74.6	71,207	71.5	2,420	68,787	3,111	4.2	25,245
June	99,668	74,414	74.7	71,330	71.6	2,430	68,900	3,084	4.1	25,254
July	99,761	74,498	74.7	71,437	71.6	2,435	69,002	3,061	4.1	25,263
August	99,863	74,499	74.6	71,436	71.5	2,409	69,027	3,063	4.1	25,364
September	99,976	74,643	74.7	71,630	71.6	2,361	69,269	3,013	4.0	25,333
October	100,088	74,680	74.6	71,623	71.6	2,389	69,234	3,057	4.1	25,408
November	100,179	74,728	74.6	71,732	71.6	2,501	69,231	2,996	4.0	25,451
December	100,264	74,930	74.7	71,927	71.7	2,440	69,487	3,003	4.0	25,334
Annual averages										
WOMEN										
1988	96,756	54,742	56.6	51,696	53.4	676	51,020	3,046	5.6	42,014
1989	97,630	56,030	57.4	53,027	54.3	687	52,341	3,003	5.4	41,601
1990 ¹	98,787	56,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,957
1991	99,646	57,178	57.4	53,496	53.7	680	52,815	3,683	6.4	42,468
1992	100,535	58,141	57.8	54,052	53.8	672	53,380	4,090	7.0	42,394
1993	101,506	58,795	57.9	54,910	54.1	637	54,273	3,885	6.6	42,711
1994 ¹	102,460	60,239	58.8	56,610	55.3	855	55,755	3,629	6.0	42,221
1995	103,406	60,944	58.9	57,523	55.6	881	56,642	3,421	5.6	42,462
1996	104,385	61,857	59.3	58,501	56.0	871	57,630	3,356	5.4	42,528
1997 ¹	105,418	63,036	59.8	59,873	56.8	847	59,026	3,162	5.0	42,382
1998 ¹	106,462	63,714	59.8	60,771	57.1	825	59,945	2,944	4.6	42,748
1999 ²	108,031	64,855	60.0	62,042	57.4	849	61,193	2,814	4.3	43,175
Monthly data, seasonally adjusted ³										
1998:										
December	106,960	64,163	60.0	61,344	57.4	820	60,524	2,819	4.4	42,797
1999:										
January ²	107,521	64,726	60.2	61,857	57.5	841	61,016	2,869	4.4	42,795
February	107,593	64,675	60.1	61,799	57.4	879	60,920	2,876	4.4	42,918
March	107,674	64,586	60.0	61,707	57.3	864	60,843	2,879	4.5	43,088
April	107,771	64,816	60.1	61,846	57.4	852	60,994	2,970	4.6	42,955
May	107,864	64,695	60.0	61,983	57.5	870	61,113	2,712	4.2	43,169
June	107,964	64,918	60.1	62,068	57.5	900	61,168	2,850	4.4	43,046
July	108,067	64,838	60.0	61,962	57.3	843	61,119	2,876	4.4	43,229
August	108,175	64,873	60.0	62,094	57.4	825	61,269	2,779	4.3	43,302
September	108,289	64,832	59.9	62,020	57.3	818	61,202	2,812	4.3	43,457
October	108,395	65,017	60.0	62,317	57.5	849	61,468	2,700	4.2	43,378
November	108,487	65,106	60.0	62,366	57.5	809	61,557	2,740	4.2	43,381
December	108,569	65,178	60.0	62,493	57.6	839	61,654	2,685	4.1	43,391

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

² Beginning in January 1999, data are not strictly comparable with data for 1998 and earlier years because of revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective

January 1999" in the February 1999 issue of this publication.

³ The population figures are not adjusted for seasonal variation.

NOTE: Seasonally adjusted data have been revised based on the experience through December 1999. Data for 1995-99 are subject to revision. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-3. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL													
Civilian noninstitutional population ¹ ..	206,270	206,719	206,873	207,036	207,236	207,427	207,632	207,828	208,038	208,265	208,483	208,666	208,832
Civilian labor force	138,545	139,232	139,137	138,804	139,086	139,013	139,332	139,336	139,372	139,475	139,697	139,834	140,108
Percent of population	67.2	67.4	67.3	67.0	67.1	67.0	67.1	67.0	67.0	67.0	67.0	67.0	67.1
Employed	132,517	133,225	133,029	132,976	133,054	133,190	133,398	133,399	133,530	133,650	133,940	134,098	134,420
Employment-population ratio	64.2	64.4	64.3	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.4
Unemployed	6,028	6,007	6,108	5,828	6,032	5,823	5,934	5,937	5,842	5,825	5,757	5,736	5,688
Unemployment rate	4.4	4.3	4.4	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.1	4.1	4.1
Men, 16 years and over													
Civilian noninstitutional population ¹ ..	99,309	99,198	99,279	99,362	99,465	99,563	99,668	99,761	99,863	99,976	100,088	100,179	100,264
Civilian labor force	74,382	74,506	74,462	74,218	74,270	74,318	74,414	74,498	74,499	74,643	74,680	74,728	74,930
Percent of population	74.9	75.1	75.0	74.7	74.7	74.6	74.7	74.7	74.6	74.7	74.6	74.6	74.7
Employed	71,173	71,368	71,230	71,269	71,208	71,207	71,330	71,437	71,436	71,623	71,623	71,732	71,927
Employment-population ratio	71.7	71.9	71.7	71.7	71.6	71.5	71.6	71.6	71.5	71.6	71.6	71.6	71.7
Agriculture	2,421	2,456	2,449	2,426	2,489	2,420	2,430	2,435	2,409	2,361	2,389	2,501	2,440
Nonagricultural industries	68,752	68,912	68,781	68,843	68,719	68,787	68,900	69,002	69,027	69,269	69,234	69,231	69,487
Unemployed	3,209	3,138	3,232	2,949	3,062	3,111	3,084	3,061	3,063	3,013	3,057	2,996	3,003
Unemployment rate	4.3	4.2	4.3	4.0	4.1	4.2	4.1	4.1	4.1	4.0	4.1	4.0	4.0
Not in labor force	24,927	24,692	24,817	25,144	25,195	25,245	25,254	25,263	25,364	25,333	25,408	25,451	25,334
Men, 20 years and over													
Civilian noninstitutional population ¹ ..	91,220	91,124	91,189	91,215	91,302	91,368	91,487	91,561	91,692	91,793	91,896	91,986	92,052
Civilian labor force	70,044	70,202	70,111	69,934	69,992	69,978	70,116	70,167	70,240	70,328	70,339	70,388	70,529
Percent of population	76.8	77.0	76.9	76.7	76.7	76.6	76.6	76.6	76.6	76.6	76.5	76.5	76.6
Employed	67,528	67,771	67,527	67,628	67,562	67,470	67,645	67,703	67,768	67,943	67,898	68,037	68,197
Employment-population ratio	74.0	74.4	74.1	74.1	74.0	73.8	73.9	73.9	74.0	73.9	73.9	74.0	74.1
Agriculture	2,254	2,304	2,231	2,239	2,305	2,224	2,246	2,256	2,237	2,189	2,206	2,262	2,227
Nonagricultural industries	65,274	65,467	65,296	65,389	65,257	65,246	65,399	65,447	65,531	65,754	65,692	65,775	65,970
Unemployed	2,516	2,431	2,584	2,306	2,430	2,508	2,471	2,464	2,472	2,385	2,441	2,351	2,332
Unemployment rate	3.6	3.5	3.7	3.3	3.5	3.6	3.5	3.5	3.5	3.4	3.5	3.3	3.3
Not in labor force	21,176	20,922	21,078	21,281	21,310	21,390	21,371	21,394	21,452	21,465	21,557	21,598	21,523
Women, 16 years and over													
Civilian noninstitutional population ¹ ..	106,960	107,521	107,593	107,674	107,771	107,864	107,964	108,067	108,175	108,289	108,395	108,487	108,569
Civilian labor force	64,163	64,726	64,675	64,586	64,816	64,695	64,918	64,838	64,873	64,832	65,017	65,106	65,178
Percent of population	60.0	60.2	60.1	60.0	60.1	60.0	60.1	60.0	60.0	59.9	60.0	60.0	60.0
Employed	61,344	61,857	61,799	61,707	61,846	61,983	62,068	61,962	62,094	62,020	62,317	62,366	62,493
Employment-population ratio	57.4	57.5	57.4	57.3	57.4	57.5	57.5	57.3	57.4	57.3	57.5	57.5	57.6
Agriculture	820	841	879	864	852	870	900	843	825	818	849	809	839
Nonagricultural industries	60,524	61,016	60,920	60,843	60,994	61,113	61,168	61,119	61,269	61,202	61,468	61,557	61,654
Unemployed	2,819	2,869	2,876	2,879	2,970	2,712	2,850	2,876	2,779	2,812	2,700	2,740	2,685
Unemployment rate	4.4	4.4	4.4	4.5	4.6	4.2	4.4	4.4	4.3	4.3	4.2	4.2	4.1
Not in labor force	42,797	42,795	42,918	43,088	42,955	43,169	43,046	43,229	43,302	43,457	43,378	43,381	43,391
Women, 20 years and over													
Civilian noninstitutional population ¹ ..	99,181	99,686	99,746	99,833	99,923	100,008	100,131	100,203	100,285	100,385	100,458	100,573	100,666
Civilian labor force	60,118	60,691	60,591	60,554	60,765	60,708	60,988	60,852	60,904	60,860	60,955	61,052	61,154
Percent of population	60.6	60.9	60.7	60.7	60.8	60.7	60.9	60.7	60.7	60.6	60.7	60.7	60.7
Employed	57,776	58,373	58,261	58,216	58,336	58,483	58,647	58,477	58,648	58,630	58,800	58,838	58,958
Employment-population ratio	58.3	58.6	58.4	58.3	58.4	58.5	58.6	58.4	58.5	58.4	58.5	58.5	58.6
Agriculture	767	802	822	821	803	820	851	798	780	778	800	768	791
Nonagricultural industries	57,009	57,571	57,439	57,395	57,533	57,663	57,796	57,679	57,868	57,852	58,000	58,070	58,167
Unemployed	2,342	2,318	2,330	2,338	2,429	2,225	2,341	2,375	2,256	2,230	2,155	2,214	2,196
Unemployment rate	3.9	3.8	3.8	3.9	4.0	3.7	3.8	3.9	3.7	3.7	3.5	3.6	3.6
Not in labor force	39,063	38,995	39,155	39,279	39,158	39,300	39,143	39,351	39,381	39,525	39,503	39,521	39,512
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹ ..	15,868	15,909	15,939	15,988	16,011	16,051	16,014	16,065	16,061	16,086	16,129	16,107	16,114
Civilian labor force	8,383	8,339	8,435	8,316	8,329	8,327	8,228	8,317	8,228	8,287	8,403	8,394	8,425
Percent of population	52.8	52.4	52.9	52.0	52.0	51.9	51.4	51.8	51.2	51.5	52.1	52.1	52.3
Employed	7,213	7,081	7,241	7,132	7,156	7,237	7,106	7,219	7,114	7,077	7,242	7,223	7,265
Employment-population ratio	45.5	44.5	45.4	44.6	44.7	45.1	44.4	44.9	44.3	44.0	44.9	44.8	45.1
Agriculture	220	191	275	230	233	246	233	224	217	212	232	280	261
Nonagricultural industries	6,993	6,890	6,966	6,902	6,923	6,991	6,873	6,995	6,897	6,865	7,010	6,943	7,004
Unemployed	1,170	1,258	1,194	1,184	1,173	1,090	1,122	1,098	1,114	1,210	1,161	1,171	1,160
Unemployment rate	14.0	15.1	14.2	14.2	14.1	13.1	13.6	13.2	13.5	14.6	13.8	14.0	13.8
Not in labor force	7,485	7,570	7,504	7,672	7,682	7,724	7,786	7,748	7,833	7,799	7,726	7,713	7,689

¹ The population figures are not adjusted for seasonal variation.

NOTE: Detail for the seasonally adjusted data shown in tables A-3 through A-13 will not necessarily add to totals because of the independent seasonal adjustment of the various series. Beginning in January 1999, data reflect revised

population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

A-4. 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	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
WHITE													
Civilian noninstitutional population ¹ ..	172,197	172,394	172,491	172,597	172,730	172,859	172,999	173,133	173,275	173,432	173,585	173,709	173,821
Civilian labor force	115,980	116,356	116,455	116,237	116,344	116,193	116,518	116,492	116,619	116,495	116,654	116,703	117,008
Percent of population	67.4	67.5	67.5	67.3	67.4	67.2	67.4	67.3	67.3	67.2	67.2	67.2	67.3
Employed	111,539	111,978	112,017	112,030	111,886	111,898	112,115	112,193	112,308	112,303	112,548	112,611	112,951
Employment-population ratio	64.8	65.0	64.9	64.9	64.8	64.7	64.8	64.8	64.8	64.8	64.8	64.8	65.0
Unemployed	4,441	4,378	4,438	4,207	4,458	4,295	4,403	4,299	4,311	4,192	4,106	4,092	4,057
Unemployment rate	3.8	3.8	3.8	3.6	3.8	3.7	3.8	3.7	3.7	3.6	3.5	3.5	3.5
Men, 20 years and over													
Civilian labor force	59,716	59,651	59,731	59,675	59,651	59,502	59,721	59,799	59,932	59,841	59,777	59,761	59,889
Percent of population	77.3	77.4	77.4	77.3	77.2	77.0	77.2	77.2	77.3	77.1	77.0	76.9	77.0
Employed	57,811	57,811	57,769	57,935	57,834	57,635	57,835	57,955	58,007	58,102	58,043	58,067	58,221
Employment-population ratio	74.8	75.0	74.9	75.0	74.9	74.5	74.7	74.8	74.8	74.9	74.7	74.7	74.8
Unemployed	1,905	1,840	1,962	1,740	1,817	1,867	1,886	1,844	1,925	1,739	1,734	1,694	1,668
Unemployment rate	3.2	3.1	3.3	2.9	3.0	3.1	3.2	3.1	3.2	2.9	2.9	2.8	2.8
Women, 20 years and over													
Civilian labor force	49,223	49,683	49,655	49,567	49,674	49,625	49,850	49,652	49,713	49,593	49,733	49,814	50,011
Percent of population	59.8	60.1	60.0	59.9	60.0	59.9	60.1	59.8	59.9	59.7	59.8	59.9	60.1
Employed	47,561	48,037	48,030	47,941	47,885	48,004	48,167	48,000	48,140	48,010	48,203	48,273	48,486
Employment-population ratio	57.8	58.1	58.1	57.9	57.8	57.9	58.1	57.9	58.0	57.8	58.0	58.0	58.2
Unemployed	1,662	1,646	1,625	1,626	1,789	1,621	1,683	1,652	1,573	1,583	1,530	1,541	1,525
Unemployment rate	3.4	3.3	3.3	3.3	3.6	3.3	3.4	3.3	3.2	3.2	3.1	3.1	3.0
Both sexes, 16 to 19 years													
Civilian labor force	7,041	7,022	7,069	6,995	7,019	7,066	6,947	7,041	6,974	7,061	7,144	7,128	7,108
Percent of population	56.0	55.6	55.9	55.3	55.4	55.7	54.7	55.3	54.8	55.4	56.1	56.0	55.8
Employed	6,167	6,130	6,218	6,154	6,167	6,259	6,113	6,238	6,161	6,191	6,302	6,271	6,244
Employment-population ratio	49.1	48.6	49.2	48.7	48.7	49.3	48.1	49.0	48.4	48.6	49.5	49.2	49.0
Unemployed	874	892	851	841	852	807	834	803	813	870	842	857	864
Unemployment rate	12.4	12.7	12.0	12.0	12.1	11.4	12.0	11.4	11.7	12.3	11.8	12.0	12.2
Men	13.8	13.8	12.6	12.8	12.6	12.2	12.0	11.7	12.3	12.7	11.9	12.8	13.3
Women	10.9	11.5	11.4	11.2	11.6	10.6	12.0	11.1	11.0	11.9	11.7	11.2	10.9
BLACK													
Civilian noninstitutional population ¹ ..	24,561	24,665	24,697	24,729	24,765	24,798	24,833	24,867	24,904	24,946	24,985	25,019	25,051
Civilian labor force	16,155	16,337	16,250	16,231	16,288	16,290	16,308	16,366	16,321	16,474	16,489	16,508	16,513
Percent of population	65.8	66.2	65.8	65.6	65.8	65.7	65.7	65.8	65.5	66.0	66.0	66.0	65.9
Employed	14,894	15,056	14,924	14,925	15,011	15,053	15,069	14,962	15,047	15,114	15,124	15,187	15,204
Employment-population ratio	60.6	61.0	60.4	60.4	60.6	60.7	60.7	60.2	60.4	60.6	60.5	60.7	60.7
Unemployed	1,261	1,281	1,326	1,306	1,277	1,237	1,239	1,404	1,274	1,360	1,365	1,321	1,309
Unemployment rate	7.8	7.8	8.2	8.0	7.8	7.6	7.6	8.6	7.8	8.3	8.3	8.0	7.9
Men, 20 years and over													
Civilian labor force	7,060	7,208	7,137	7,073	7,118	7,182	7,153	7,122	7,162	7,205	7,281	7,277	7,273
Percent of population	72.0	73.3	72.4	71.7	72.0	72.6	72.1	71.7	72.0	72.3	72.9	72.8	72.6
Employed	6,598	6,769	6,662	6,647	6,670	6,710	6,698	6,610	6,714	6,696	6,717	6,767	6,766
Employment-population ratio	67.3	68.8	67.6	67.4	67.5	67.8	67.6	66.6	67.5	67.2	67.3	67.7	67.5
Unemployed	462	439	475	426	448	472	455	512	448	509	564	510	507
Unemployment rate	6.5	6.1	6.7	6.0	6.3	6.6	6.4	7.2	6.3	7.1	7.7	7.0	7.0
Women, 20 years and over													
Civilian labor force	8,052	8,110	8,112	8,151	8,223	8,178	8,219	8,311	8,241	8,316	8,252	8,305	8,260
Percent of population	65.5	65.6	65.6	65.8	66.3	65.8	66.1	66.7	66.1	66.5	65.9	66.3	65.8
Employed	7,495	7,563	7,542	7,573	7,657	7,647	7,667	7,670	7,673	7,759	7,745	7,757	7,706
Employment-population ratio	61.0	61.2	61.0	61.1	61.7	61.6	61.6	61.6	61.5	62.1	61.9	61.9	61.4
Unemployed	557	547	570	578	566	531	552	641	568	557	507	548	554
Unemployment rate	6.9	6.7	7.0	7.1	6.9	6.5	6.7	7.7	6.9	6.7	6.1	6.6	6.7

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

**A-4. 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	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	1,043	1,019	1,001	1,007	947	930	936	933	918	953	956	926	980
Percent of population	42.4	41.3	40.5	40.7	38.3	37.5	37.7	37.5	37.0	38.4	38.5	37.3	39.5
Employed	801	724	720	705	684	696	704	682	660	659	662	663	732
Employment-population ratio	32.5	29.3	29.1	28.5	27.6	28.1	28.4	27.4	26.6	26.5	26.7	26.7	29.5
Unemployed	242	295	281	302	263	234	232	251	258	294	294	263	248
Unemployment rate	23.2	28.9	28.1	30.0	27.8	25.2	24.8	26.9	28.1	30.8	30.8	28.4	25.3
Men	27.6	33.3	31.2	32.4	32.0	27.9	28.8	30.7	29.6	30.3	35.3	31.0	27.5
Women	19.1	24.5	25.0	27.6	23.8	22.5	21.2	23.4	26.7	31.4	26.1	25.9	23.0
HISPANIC ORIGIN													
Civilian noninstitutional population ¹ ..	21,405	21,296	21,355	21,414	21,483	21,548	21,618	21,684	21,752	21,820	21,881	21,947	22,008
Civilian labor force	14,512	14,448	14,520	14,542	14,535	14,555	14,624	14,617	14,710	14,766	14,809	14,887	14,984
Percent of population	67.8	67.8	68.0	67.9	67.7	67.5	67.6	67.4	67.6	67.7	67.7	67.8	68.1
Employed	13,379	13,473	13,536	13,673	13,541	13,574	13,655	13,696	13,759	13,795	13,879	13,979	14,095
Employment-population ratio	62.5	63.3	63.4	63.8	63.0	63.0	63.2	63.2	63.3	63.2	63.4	63.7	64.0
Unemployed	1,133	975	984	869	994	981	969	921	951	971	930	908	889
Unemployment rate	7.8	6.7	6.8	6.0	6.8	6.7	6.6	6.3	6.5	6.6	6.3	6.1	5.9

¹ The population figures are not adjusted for seasonal variation.

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. Beginning in

January 1999, data reflect revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

A-5. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, seasonally adjusted

(Numbers in thousands)

Educational attainment	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Less than a high school diploma													
Civilian noninstitutional population ¹	29,094	28,901	28,112	28,442	27,991	28,298	28,515	28,015	28,568	28,583	28,246	28,228	28,144
Civilian labor force	12,499	12,339	12,218	12,039	11,896	11,891	12,081	12,087	12,307	12,151	12,201	12,132	11,956
Percent of population	43.0	42.7	43.5	42.3	42.5	42.0	42.4	43.1	43.1	42.5	43.2	43.0	42.5
Employed	11,618	11,447	11,317	11,280	11,092	11,085	11,265	11,265	11,448	11,327	11,401	11,347	11,243
Employment-population ratio	39.9	39.6	40.3	39.7	39.6	39.2	39.5	40.2	40.1	39.6	40.4	40.2	39.9
Unemployed	881	892	901	759	804	806	816	822	859	824	800	785	713
Unemployment rate	7.0	7.2	7.4	6.3	6.8	6.8	6.8	6.8	7.0	6.8	6.6	6.5	6.0
High school graduates, no college²													
Civilian noninstitutional population ¹	57,115	57,477	57,062	57,805	57,945	57,931	57,963	57,162	57,195	57,518	57,275	57,789	57,590
Civilian labor force	37,279	37,441	37,274	37,687	37,508	37,365	37,382	37,014	36,954	37,188	37,080	37,671	37,362
Percent of population	65.3	65.1	65.3	65.2	64.7	64.5	64.5	64.8	64.6	64.7	64.7	65.2	64.9
Employed	35,891	36,112	35,962	36,368	36,173	36,022	35,962	35,700	35,657	35,879	35,874	36,445	36,071
Employment-population ratio	62.8	62.8	63.0	62.9	62.4	62.2	62.0	62.5	62.3	62.4	62.6	63.1	62.6
Unemployed	1,388	1,329	1,312	1,319	1,335	1,343	1,420	1,314	1,297	1,309	1,206	1,226	1,291
Unemployment rate	3.7	3.5	3.5	3.5	3.6	3.6	3.8	3.6	3.5	3.5	3.3	3.3	3.5
Less than a bachelor's degree³													
Civilian noninstitutional population ¹	43,022	43,154	43,911	43,028	43,059	42,742	42,780	43,610	43,130	42,955	43,787	44,070	44,069
Civilian labor force	31,846	32,273	32,227	31,866	32,051	31,944	31,955	32,145	31,842	32,140	32,203	32,312	32,404
Percent of population	74.0	74.8	73.4	74.1	74.4	74.7	74.7	73.7	73.8	74.8	73.5	73.3	73.5
Employed	30,926	31,347	31,238	30,966	31,111	31,049	31,140	31,169	30,864	31,269	31,330	31,444	31,586
Employment-population ratio	71.9	72.6	71.1	72.0	72.3	72.6	72.8	71.5	71.6	72.8	71.6	71.3	71.7
Unemployed	920	926	989	900	940	895	815	976	978	871	873	868	818
Unemployment rate	2.9	2.9	3.1	2.8	2.9	2.8	2.6	3.0	3.1	2.7	2.7	2.7	2.5
College graduates													
Civilian noninstitutional population ¹	43,484	43,516	43,949	43,859	44,289	44,442	44,464	45,042	45,086	45,081	44,986	44,365	44,821
Civilian labor force	34,862	35,023	35,132	35,130	35,467	35,677	35,757	35,827	36,037	35,722	35,721	35,264	35,824
Percent of population	80.2	80.5	79.9	80.1	80.1	80.3	80.4	79.5	79.9	79.2	79.4	79.5	79.9
Employed	34,225	34,389	34,466	34,479	34,745	35,020	35,059	35,167	35,465	35,112	35,106	34,655	35,186
Employment-population ratio	78.7	79.0	78.4	78.6	78.5	78.8	78.8	78.1	78.7	77.9	78.0	78.1	78.5
Unemployed	637	634	666	651	722	657	698	660	572	610	615	609	638
Unemployment rate	1.8	1.8	1.9	1.9	2.0	1.8	2.0	1.8	1.6	1.7	1.7	1.7	1.8

¹ The population figures are not adjusted for seasonal variation.

² Includes high school diploma or equivalent.

³ Includes the categories, some college, no degree; and associate degree.

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-6. Employed and unemployed full- and part-time workers by sex and age, seasonally adjusted

(Numbers in thousands)

Full- and part-time status, sex, and age	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
EMPLOYED													
Full-time workers	109,330	110,093	109,782	109,915	109,706	109,986	110,275	109,797	110,060	110,413	110,877	111,227	111,562
Men, 16 years and over	63,731	64,017	63,795	63,944	63,690	63,700	63,805	63,835	63,772	63,985	64,005	64,259	64,358
Men, 20 years and over	62,298	62,676	62,396	62,538	62,324	62,254	62,367	62,350	62,310	62,621	62,607	62,825	62,914
Women, 16 years and over	45,562	45,942	45,946	45,952	45,991	46,233	46,538	46,067	46,386	46,452	46,847	46,968	47,161
Women, 20 years and over	44,642	45,067	45,059	45,046	45,067	45,262	45,529	45,084	45,407	45,497	45,822	45,907	46,094
Both sexes, 16 to 19 years	2,390	2,350	2,327	2,331	2,315	2,470	2,379	2,363	2,343	2,295	2,448	2,495	2,554
Part-time workers	23,292	23,163	23,242	23,204	23,291	23,228	23,108	23,437	23,386	23,205	23,081	22,946	22,975
Men, 16 years and over	7,461	7,280	7,420	7,411	7,496	7,511	7,537	7,598	7,643	7,613	7,610	7,485	7,581
Men, 20 years and over	5,246	5,089	5,132	5,176	5,234	5,192	5,282	5,351	5,483	5,302	5,255	5,213	5,295
Women, 16 years and over	15,815	15,851	15,792	15,798	15,800	15,749	15,523	15,865	15,691	15,666	15,483	15,450	15,377
Women, 20 years and over	13,193	13,271	13,179	13,202	13,246	13,218	13,137	13,312	13,204	13,169	12,996	12,964	12,932
Both sexes, 16 to 19 years	4,853	4,803	4,931	4,826	4,811	4,818	4,689	4,774	4,699	4,734	4,830	4,769	4,748
UNEMPLOYED													
Looking for full-time work	4,801	4,718	4,893	4,626	4,807	4,633	4,641	4,705	4,712	4,568	4,614	4,536	4,540
Men, 16 years and over	2,661	2,562	2,659	2,340	2,533	2,569	2,573	2,556	2,625	2,533	2,588	2,526	2,493
Men, 20 years and over	2,332	2,246	2,378	2,103	2,218	2,272	2,229	2,239	2,295	2,172	2,224	2,151	2,109
Women, 16 years and over	2,145	2,097	2,159	2,199	2,299	2,081	2,127	2,128	2,100	2,068	2,068	2,068	2,065
Women, 20 years and over	1,907	1,858	1,915	1,946	2,033	1,852	1,903	1,939	1,861	1,792	1,771	1,792	1,799
Both sexes, 16 to 19 years	562	614	600	577	556	509	509	527	556	604	619	593	632
Looking for part-time work	1,255	1,266	1,202	1,209	1,221	1,265	1,284	1,216	1,133	1,228	1,146	1,191	1,175
Men, 16 years and over	558	508	495	502	547	600	566	518	449	504	499	502	520
Men, 20 years and over	199	189	209	187	193	276	249	222	170	207	216	199	236
Women, 16 years and over	679	739	729	704	712	670	729	706	666	707	625	686	640
Women, 20 years and over	419	441	430	408	414	392	438	432	395	424	377	406	384
Both sexes, 16 to 19 years	637	636	563	614	614	597	597	562	568	597	553	586	555
UNEMPLOYMENT RATES¹													
Full-time workers	4.2	4.1	4.3	4.0	4.2	4.0	4.0	4.1	4.1	4.0	4.0	3.9	3.9
Men, 16 years and over	4.0	3.8	4.0	3.5	3.8	3.9	3.9	3.8	4.0	3.8	3.9	3.8	3.7
Men, 20 years and over	3.6	3.5	3.7	3.3	3.4	3.5	3.5	3.5	3.6	3.4	3.4	3.3	3.2
Women, 16 years and over	4.5	4.4	4.5	4.6	4.8	4.3	4.4	4.4	4.3	4.3	4.2	4.2	4.2
Women, 20 years and over	4.1	4.0	4.1	4.1	4.3	3.9	4.0	4.1	3.9	3.8	3.7	3.8	3.8
Both sexes, 16 to 19 years	19.0	20.7	20.5	19.8	19.4	17.1	17.6	18.2	19.2	20.8	20.2	19.2	19.8
Part-time workers	5.1	5.2	4.9	5.0	5.0	5.2	5.3	4.9	4.6	5.0	4.7	4.9	4.9
Men, 16 years and over	7.0	6.5	6.3	6.3	6.8	7.4	7.0	6.4	5.5	6.2	6.2	6.3	6.4
Men, 20 years and over	3.7	3.6	3.9	3.5	3.6	5.0	4.5	4.0	3.0	3.8	3.9	3.7	4.3
Women, 16 years and over	4.1	4.5	4.4	4.3	4.3	4.1	4.5	4.3	4.1	4.3	3.9	4.3	4.0
Women, 20 years and over	3.1	3.2	3.2	3.0	3.0	2.9	3.2	3.1	2.9	3.1	2.8	3.0	2.9
Both sexes, 16 to 19 years	11.6	11.7	10.2	11.3	11.3	11.0	11.3	10.5	10.8	11.2	10.3	10.9	10.5

¹ These rates reflect a refined definition of the full- and part-time labor force and differ from the rates published elsewhere in this publication prior to 1994.

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

A-7. Employed persons by marital status, occupation, class of worker, and part-time status, seasonally adjusted

(In thousands)

Category	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
MARITAL STATUS													
Total	132,517	133,225	133,029	132,976	133,054	133,190	133,398	133,399	133,530	133,650	133,940	134,098	134,420
Married men, spouse present	43,205	43,440	43,077	43,164	43,210	42,997	43,279	43,350	43,368	43,367	43,206	43,273	43,283
Married women, spouse present	33,077	33,526	33,130	33,176	33,284	33,442	33,758	33,387	33,504	33,275	33,521	33,635	33,762
Women who maintain families	8,087	8,089	8,103	8,142	8,081	8,081	8,028	8,272	8,335	8,312	8,398	8,526	8,375
OCCUPATION													
Managerial and professional specialty	39,777	39,893	39,650	40,005	40,458	40,503	40,802	40,823	40,800	40,784	40,718	40,363	40,800
Technical, sales, and administrative support	38,281	38,762	39,152	38,821	38,816	38,939	38,777	38,673	38,874	38,634	39,023	39,283	39,311
Service occupations	18,000	18,029	18,090	18,034	17,904	18,049	18,007	17,990	17,976	17,876	17,694	17,633	17,706
Precision production, craft, and repair	14,569	14,663	14,662	14,591	14,508	14,452	14,175	14,431	14,322	14,659	14,836	14,903	14,940
Operators, fabricators, and laborers	18,470	18,444	18,097	18,135	17,775	17,920	18,177	18,019	18,089	18,227	18,340	18,476	18,299
Farming, forestry, and fishing	3,427	3,440	3,469	3,438	3,508	3,440	3,477	3,421	3,412	3,365	3,365	3,407	3,367
CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,867	1,962	1,900	1,905	1,930	1,930	1,923	1,939	1,908	1,930	1,936	2,049	2,018
Self-employed workers	1,332	1,324	1,376	1,358	1,399	1,330	1,341	1,292	1,266	1,198	1,267	1,216	1,211
Unpaid family workers	34	31	43	39	33	36	39	45	46	40	42	41	36
Nonagricultural industries:													
Wage and salary workers	120,365	120,777	120,967	120,939	120,925	121,311	121,006	121,188	121,150	121,583	121,654	121,965	122,426
Private industries	101,656	101,948	102,184	102,161	102,147	102,540	101,999	102,156	102,036	102,503	102,837	103,063	103,467
Private households	937	895	861	926	935	914	983	944	873	1,035	939	944	948
Other industries	100,719	101,053	101,323	101,235	101,212	101,626	101,016	101,212	101,163	101,468	101,898	102,119	102,519
Government	18,709	18,829	18,783	18,778	18,778	18,771	19,007	19,032	19,114	19,080	18,817	18,902	18,959
Self-employed workers	8,829	8,840	8,733	8,730	8,801	8,726	8,840	8,820	9,000	8,791	8,833	8,686	8,662
Unpaid family workers	119	110	108	127	65	61	88	77	93	100	101	108	98
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	3,448	3,489	3,425	3,509	3,403	3,399	3,377	3,316	3,279	3,283	3,179	3,274	3,320
Slack work or business conditions	1,938	2,051	1,985	2,018	1,937	1,950	2,048	1,974	1,904	1,922	1,928	1,930	1,951
Could only find part-time work	1,144	1,122	1,131	1,181	1,117	1,116	1,045	1,050	1,057	1,073	993	1,032	1,025
Part time for noneconomic reasons	18,721	18,589	18,677	18,622	18,752	18,692	18,716	18,983	19,230	18,801	18,799	18,651	18,618
Nonagricultural industries:													
Part time for economic reasons	3,271	3,341	3,282	3,325	3,225	3,229	3,209	3,142	3,127	3,112	2,983	3,105	3,157
Slack work or business conditions	1,851	1,948	1,900	1,927	1,845	1,845	1,902	1,850	1,813	1,806	1,807	1,815	1,843
Could only find part-time work	1,115	1,099	1,101	1,128	1,087	1,089	1,031	1,034	1,041	1,063	964	1,013	1,018
Part time for noneconomic reasons	18,187	18,033	18,094	18,031	18,159	18,138	18,106	18,466	18,652	18,273	18,249	18,083	18,061

¹ Persons at work excludes employed persons who were absent from their jobs during the entire reference week for reasons such as vacation, illness, or industrial dispute. Part time for noneconomic reasons excludes persons who usually work full time but worked only 1 to 34 hours during the reference week for reasons such as

holidays, illness, and bad weather.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-8. Employed persons by age and sex, seasonally adjusted

(In thousands)

Age and sex	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	132,517	133,225	133,029	132,976	133,054	133,190	133,398	133,399	133,530	133,650	133,940	134,098	134,420
16 to 24 years	19,865	19,856	20,012	20,030	19,939	20,028	19,935	20,078	20,068	20,106	20,226	20,188	20,334
16 to 19 years	7,213	7,081	7,241	7,132	7,156	7,237	7,106	7,219	7,114	7,077	7,242	7,223	7,265
16 to 17 years	2,837	2,754	2,809	2,782	2,802	2,809	2,745	2,845	2,776	2,765	2,834	2,797	2,803
18 to 19 years	4,385	4,335	4,392	4,358	4,338	4,466	4,369	4,361	4,325	4,309	4,411	4,421	4,461
20 to 24 years	12,652	12,775	12,771	12,898	12,783	12,791	12,829	12,859	12,954	13,029	12,984	12,965	13,069
25 years and over	112,642	113,391	112,981	113,001	113,141	113,214	113,436	113,280	113,495	113,539	113,666	113,897	114,075
25 to 54 years	95,798	96,538	96,056	95,937	95,951	96,007	96,158	95,995	96,120	96,200	96,436	96,635	96,729
55 years and over	16,892	16,870	16,970	17,036	17,142	17,106	17,261	17,306	17,379	17,377	17,255	17,252	17,406
Men, 16 years and over	71,173	71,368	71,230	71,269	71,208	71,207	71,330	71,437	71,436	71,630	71,623	71,732	71,927
16 to 24 years	10,341	10,288	10,401	10,406	10,221	10,382	10,323	10,415	10,427	10,540	10,521	10,508	10,570
16 to 19 years	3,645	3,597	3,703	3,641	3,646	3,737	3,685	3,734	3,668	3,687	3,725	3,695	3,730
16 to 17 years	1,424	1,415	1,436	1,409	1,411	1,454	1,437	1,471	1,441	1,421	1,462	1,439	1,445
18 to 19 years	2,226	2,195	2,237	2,239	2,231	2,324	2,263	2,251	2,213	2,247	2,267	2,234	2,278
20 to 24 years	6,696	6,691	6,698	6,765	6,575	6,645	6,638	6,681	6,759	6,853	6,796	6,813	6,840
25 years and over	60,826	61,058	60,829	60,885	60,980	60,872	61,001	61,012	61,061	61,083	61,073	61,202	61,349
25 to 54 years	51,468	51,701	51,406	51,420	51,430	51,347	51,416	51,463	51,423	51,431	51,523	51,673	51,732
55 years and over	9,386	9,367	9,437	9,474	9,526	9,465	9,559	9,574	9,619	9,649	9,542	9,574	9,649
Women, 16 years and over	61,344	61,857	61,799	61,707	61,846	61,983	62,068	61,962	62,094	62,020	62,317	62,366	62,493
16 to 24 years	9,524	9,568	9,611	9,624	9,718	9,646	9,612	9,663	9,641	9,566	9,705	9,680	9,764
16 to 19 years	3,568	3,484	3,538	3,491	3,510	3,500	3,421	3,485	3,446	3,390	3,517	3,528	3,535
16 to 17 years	1,413	1,339	1,373	1,373	1,391	1,355	1,308	1,374	1,335	1,344	1,372	1,358	1,358
18 to 19 years	2,159	2,140	2,155	2,119	2,107	2,142	2,106	2,110	2,112	2,062	2,144	2,187	2,183
20 to 24 years	5,956	6,084	6,073	6,133	6,208	6,146	6,191	6,178	6,195	6,176	6,188	6,152	6,229
25 years and over	51,816	52,333	52,152	52,116	52,161	52,342	52,435	52,268	52,434	52,456	52,593	52,695	52,726
25 to 54 years	44,330	44,837	44,650	44,517	44,521	44,660	44,742	44,532	44,697	44,769	44,913	44,962	44,997
55 years and over	7,506	7,503	7,533	7,562	7,616	7,641	7,702	7,732	7,760	7,728	7,713	7,678	7,757

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

A-9. Unemployed persons by age and sex, seasonally adjusted

(In thousands)

Age and sex	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	6,028	6,007	6,108	5,828	6,032	5,823	5,934	5,937	5,842	5,825	5,757	5,736	5,688
16 to 24 years	2,158	2,239	2,262	2,218	2,211	2,130	2,172	2,160	2,139	2,226	2,247	2,249	2,209
16 to 19 years	1,170	1,258	1,194	1,184	1,173	1,090	1,122	1,098	1,114	1,210	1,161	1,171	1,160
16 to 17 years	567	599	526	553	557	540	534	518	526	531	536	553	553
18 to 19 years	609	643	654	632	612	563	587	578	596	690	623	619	612
20 to 24 years	988	981	1,068	1,034	1,038	1,040	1,050	1,062	1,025	1,016	1,086	1,078	1,049
25 years and over	3,860	3,767	3,830	3,626	3,822	3,686	3,753	3,779	3,706	3,618	3,510	3,488	3,479
25 to 54 years	3,320	3,278	3,336	3,133	3,286	3,225	3,231	3,250	3,226	3,147	3,043	3,048	2,987
55 years and over	511	503	503	497	507	474	534	521	475	461	472	459	477
Men, 16 years and over	3,209	3,138	3,232	2,949	3,062	3,111	3,084	3,061	3,063	3,013	3,057	2,996	3,003
16 to 24 years	1,227	1,232	1,197	1,165	1,195	1,184	1,212	1,187	1,148	1,163	1,222	1,194	1,252
16 to 19 years	693	707	648	643	632	603	613	597	591	628	616	645	671
16 to 17 years	336	339	274	294	316	310	291	282	279	283	268	292	311
18 to 19 years	353	365	361	350	321	301	330	313	319	341	346	353	356
20 to 24 years	534	525	549	522	563	581	599	590	557	535	606	549	581
25 years and over	1,985	1,910	2,010	1,780	1,871	1,924	1,865	1,887	1,923	1,859	1,842	1,789	1,757
25 to 54 years	1,676	1,644	1,714	1,520	1,597	1,665	1,597	1,589	1,643	1,575	1,578	1,531	1,493
55 years and over	292	271	286	256	265	273	270	298	284	292	278	252	246
Women, 16 years and over	2,819	2,869	2,876	2,879	2,970	2,712	2,850	2,876	2,779	2,812	2,700	2,740	2,685
16 to 24 years	931	1,007	1,065	1,053	1,016	946	960	973	991	1,063	1,025	1,055	957
16 to 19 years	477	551	546	541	541	487	509	501	523	582	545	526	489
16 to 17 years	231	260	252	259	241	230	243	236	247	248	268	261	242
18 to 19 years	256	278	293	282	291	262	257	265	277	349	277	266	256
20 to 24 years	454	456	519	512	475	459	451	472	468	481	480	529	468
25 years and over	1,875	1,857	1,820	1,846	1,951	1,762	1,888	1,892	1,783	1,759	1,668	1,699	1,722
25 to 54 years	1,644	1,634	1,622	1,613	1,689	1,560	1,634	1,661	1,583	1,572	1,465	1,517	1,494
55 years and over	219	232	217	241	242	201	264	223	191	169	194	207	231

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-10. Unemployment rates by age and sex, seasonally adjusted

(Percent)

Age and sex	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	4.4	4.3	4.4	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.1	4.1	4.1
16 to 24 years	9.8	10.1	10.2	10.0	10.0	9.6	9.8	9.7	9.6	10.0	10.0	10.0	9.8
16 to 19 years	14.0	15.1	14.2	14.2	14.1	13.1	13.6	13.2	13.5	14.6	13.8	14.0	13.8
16 to 17 years	16.7	17.9	15.8	16.6	16.6	16.1	16.3	15.4	15.9	16.1	15.9	16.5	16.5
18 to 19 years	12.2	12.9	13.0	12.7	12.4	11.2	11.8	11.7	12.1	13.8	12.4	12.3	12.1
20 to 24 years	7.2	7.1	7.7	7.4	7.5	7.5	7.6	7.6	7.3	7.2	7.7	7.7	7.4
25 years and over	3.3	3.2	3.3	3.1	3.3	3.2	3.2	3.2	3.2	3.1	3.0	3.0	3.0
25 to 54 years	3.3	3.3	3.4	3.2	3.3	3.2	3.3	3.3	3.2	3.2	3.1	3.1	3.0
55 years and over	2.9	2.9	2.9	2.8	2.9	2.7	3.0	2.9	2.7	2.6	2.7	2.6	2.7
Men, 16 years and over	4.3	4.2	4.3	4.0	4.1	4.2	4.1	4.1	4.1	4.0	4.1	4.0	4.0
16 to 24 years	10.6	10.7	10.3	10.1	10.5	10.2	10.5	10.2	9.9	9.9	10.4	10.2	10.6
16 to 19 years	16.0	16.4	14.9	15.0	14.8	13.9	14.3	13.8	13.9	14.6	14.2	14.9	15.2
16 to 17 years	19.1	19.3	16.0	17.3	18.3	17.6	16.8	16.1	16.2	16.6	15.5	16.9	17.7
18 to 19 years	13.7	14.3	13.9	13.5	12.6	11.5	12.7	12.2	12.6	13.2	13.2	13.6	13.5
20 to 24 years	7.4	7.3	7.6	7.2	7.9	8.0	8.3	8.1	7.6	7.2	8.2	7.5	7.8
25 years and over	3.2	3.0	3.2	2.8	3.0	3.1	3.0	3.0	3.1	3.0	2.9	2.8	2.8
25 to 54 years	3.2	3.1	3.2	2.9	3.0	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.8
55 years and over	3.0	2.8	2.9	2.6	2.7	2.8	2.7	3.0	2.9	2.9	2.8	2.6	2.5
Women, 16 years and over	4.4	4.4	4.4	4.5	4.6	4.2	4.4	4.4	4.3	4.3	4.2	4.2	4.1
16 to 24 years	8.9	9.5	10.0	9.9	9.5	8.9	9.1	9.1	9.3	10.0	9.6	9.8	8.9
16 to 19 years	11.8	13.7	13.4	13.4	13.4	12.2	13.0	12.6	13.2	14.7	13.4	13.0	12.2
16 to 17 years	14.1	16.3	15.5	15.9	14.8	14.5	15.7	14.7	15.6	15.6	16.3	16.1	15.1
18 to 19 years	10.6	11.5	12.0	11.7	12.1	10.9	10.9	11.2	11.6	14.5	11.4	10.8	10.5
20 to 24 years	7.1	7.0	7.9	7.7	7.1	6.9	6.8	7.1	7.0	7.2	7.2	7.9	7.0
25 years and over	3.5	3.4	3.4	3.4	3.6	3.3	3.5	3.5	3.3	3.2	3.1	3.1	3.2
25 to 54 years	3.6	3.5	3.5	3.5	3.7	3.4	3.5	3.6	3.4	3.4	3.2	3.3	3.2
55 years and over	2.8	3.0	2.8	3.1	3.1	2.6	3.3	2.8	2.4	2.1	2.5	2.6	2.9

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

A-11. Unemployment rates by occupation, industry, and selected demographic characteristics, seasonally adjusted

(Percent)

Category	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CHARACTERISTIC													
Total	4.4	4.3	4.4	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.1	4.1	4.1
Men, 20 years and over	3.6	3.5	3.7	3.3	3.5	3.6	3.5	3.5	3.5	3.4	3.5	3.3	3.3
Women, 20 years and over	3.9	3.8	3.8	3.9	4.0	3.7	3.8	3.9	3.7	3.7	3.5	3.6	3.6
Both sexes, 16 to 19 years	14.0	15.1	14.2	14.2	14.1	13.1	13.6	13.2	13.5	14.6	13.8	14.0	13.8
White	3.8	3.8	3.8	3.6	3.8	3.7	3.8	3.7	3.7	3.6	3.5	3.5	3.5
Black and other	7.0	6.9	7.3	7.2	7.0	6.8	6.7	7.2	6.8	7.2	7.2	7.1	7.0
Black	7.8	7.8	8.2	8.0	7.8	7.6	7.6	8.6	7.8	8.3	8.3	8.0	7.9
Hispanic origin	7.8	6.7	6.8	6.0	6.8	6.7	6.6	6.3	6.5	6.6	6.3	6.1	5.9
Married men, spouse present	2.3	2.3	2.4	2.1	2.3	2.3	2.2	2.3	2.3	2.2	2.2	2.1	2.2
Married women, spouse present	2.8	2.8	2.8	2.7	2.9	2.6	2.7	2.8	2.7	2.6	2.5	2.5	2.5
Women who maintain families	6.3	6.3	6.5	6.6	7.1	6.0	6.5	6.4	6.3	6.4	6.0	6.0	6.2
OCCUPATION¹													
Managerial and professional specialty	1.8	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.7
Technical, sales, and administrative support	3.7	3.7	3.9	3.7	3.8	3.4	3.6	3.9	3.6	3.5	3.5	3.6	3.6
Precision production, craft, and repair	3.3	3.6	4.3	3.7	3.8	4.0	4.7	3.9	4.5	3.9	4.0	3.7	4.0
Operators, fabricators, and laborers	6.6	6.0	6.1	6.1	6.5	6.4	6.1	6.3	6.2	6.4	6.3	6.2	6.1
Farming, forestry, and fishing	7.6	7.5	7.6	6.9	7.1	7.6	7.1	6.5	6.4	5.3	5.8	6.7	5.8
INDUSTRY													
Nonagricultural private wage and salary workers ...	4.4	4.3	4.4	4.3	4.4	4.3	4.4	4.4	4.2	4.3	4.2	4.2	4.1
Goods-producing industries	4.5	4.6	4.7	4.4	4.5	4.5	4.7	4.4	4.8	4.8	4.5	4.2	4.4
Mining	5.6	6.3	7.1	5.5	8.4	5.9	4.8	6.0	4.2	6.7	5.0	4.6	4.1
Construction	6.1	7.3	7.4	7.0	7.3	7.2	7.3	6.9	7.6	6.9	6.7	5.7	6.6
Manufacturing	3.9	3.5	3.7	3.5	3.4	3.5	3.7	3.5	3.8	3.9	3.7	3.7	3.6
Durable goods	3.4	3.3	3.3	3.1	3.2	3.4	3.5	3.7	3.7	4.0	3.5	3.7	3.6
Nondurable goods	4.8	3.9	4.3	4.2	3.9	3.8	4.0	3.1	4.1	3.9	4.0	3.7	3.5
Service-producing industries	4.4	4.2	4.2	4.2	4.3	4.2	4.3	4.4	4.0	4.1	4.1	4.1	4.0
Transportation and public utilities	3.1	2.6	3.1	2.9	2.9	3.2	2.9	3.4	3.0	2.8	3.1	3.3	3.0
Wholesale and retail trade	5.5	5.3	5.2	5.4	5.4	5.3	5.3	5.2	4.8	5.2	4.9	5.3	5.2
Finance, insurance, and real estate	2.8	2.4	2.4	2.0	3.2	2.2	2.4	2.4	2.4	2.3	2.3	2.3	2.1
Services	4.1	4.2	4.1	4.2	4.1	4.0	4.2	4.4	4.0	4.1	4.0	3.9	3.8
Government workers	2.1	2.2	2.3	2.1	2.4	2.5	2.3	2.2	2.1	2.0	2.1	2.0	2.1
Agricultural wage and salary workers	9.1	9.1	10.8	9.4	9.5	10.1	9.3	9.0	9.6	5.7	7.7	8.3	7.1

¹ Seasonally adjusted data for service occupations are not available because the seasonal component, which is small relative to the trend-cycle and irregular components, cannot be separated with sufficient precision.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-12. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reason	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
NUMBER OF UNEMPLOYED													
Job losers and persons who completed temporary jobs	2,795	2,708	2,721	2,646	2,695	2,678	2,670	2,670	2,629	2,573	2,518	2,493	2,401
On temporary layoff	865	863	854	833	843	837	876	847	893	869	802	851	795
Not on temporary layoff	1,930	1,845	1,867	1,813	1,852	1,841	1,794	1,823	1,736	1,704	1,716	1,642	1,606
Job leavers	719	729	750	774	810	781	831	768	793	758	778	821	825
Reentrants	1,994	2,009	2,090	2,007	2,039	2,034	2,038	2,003	1,942	1,967	1,958	1,935	2,036
New entrants	503	519	498	446	473	440	359	459	481	504	511	485	453
PERCENT DISTRIBUTION													
Job losers and persons who completed temporary jobs	46.5	45.4	44.9	45.1	44.8	45.1	45.3	45.3	45.0	44.3	43.7	43.5	42.0
On temporary layoff	14.4	14.5	14.1	14.2	14.0	14.1	14.9	14.4	15.3	15.0	13.9	14.8	13.9
Not on temporary layoff	32.1	30.9	30.8	30.9	30.8	31.0	30.4	30.9	29.7	29.4	29.8	28.6	28.1
Job leavers	12.0	12.2	12.4	13.2	13.5	13.2	14.1	13.0	13.6	13.1	13.5	14.3	14.4
Reentrants	33.2	33.7	34.5	34.2	33.9	34.3	34.6	33.9	33.2	33.9	34.0	33.7	35.6
New entrants	8.4	8.7	8.2	7.6	7.9	7.4	6.1	7.8	8.2	8.7	8.9	8.5	7.9
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers and persons who completed temporary jobs	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.7
Job leavers	.5	.5	.5	.6	.6	.6	.6	.6	.6	.5	.6	.6	.6
Reentrants	1.4	1.4	1.5	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.5
New entrants	.4	.4	.4	.3	.3	.3	.3	.3	.3	.4	.4	.3	.3

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through

December 1999. See the article in this issue for additional information.

A-13. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Duration	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
NUMBER OF UNEMPLOYED													
Less than 5 weeks	2,573	2,397	2,585	2,521	2,741	2,502	2,540	2,640	2,599	2,582	2,545	2,601	2,620
5 to 14 weeks	1,884	2,012	1,925	1,884	1,868	1,832	1,775	1,778	1,798	1,805	1,811	1,760	1,694
15 weeks and over	1,572	1,491	1,539	1,467	1,474	1,519	1,634	1,511	1,463	1,412	1,434	1,401	1,388
15 to 26 weeks	759	776	754	752	794	784	806	779	747	708	719	725	693
27 weeks and over	813	715	785	715	680	735	828	732	716	704	715	676	695
Average (mean) duration, in weeks	14.0	13.5	13.8	13.6	13.2	13.4	14.3	13.5	13.2	13.0	13.2	13.0	12.8
Median duration, in weeks	6.8	6.8	6.9	6.8	6.1	6.6	6.3	5.8	6.4	5.9	6.3	6.2	5.9
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	42.7	40.6	42.7	42.9	45.1	42.7	42.7	44.5	44.4	44.5	44.0	45.1	45.9
5 to 14 weeks	31.2	34.1	31.8	32.1	30.7	31.3	29.8	30.0	30.7	31.1	31.3	30.5	29.7
15 weeks and over	26.1	25.3	25.4	25.0	24.2	26.0	27.5	25.5	25.0	24.3	24.8	24.3	24.3
15 to 26 weeks	12.6	13.2	12.5	12.8	13.1	13.4	13.5	13.1	12.7	12.2	12.4	12.6	12.2
27 weeks and over	13.5	12.1	13.0	12.2	11.2	12.6	13.9	12.3	12.2	12.1	12.3	11.7	12.2

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

A-14. Employment status of the civilian noninstitutional population by age, sex, and race

(Numbers in thousands)

December 1999										
Age, sex, and race	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed				Unemployed		Not in labor force
				Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	
TOTAL										
16 years and over	208,832	139,941	67.0	134,696	64.5	2,979	131,717	5,245	3.7	68,891
16 to 19 years	16,114	8,056	50.0	7,081	43.9	193	6,888	975	12.1	8,059
16 to 17 years	8,101	3,160	39.0	2,706	33.4	90	2,617	453	14.3	4,942
18 to 19 years	8,013	4,896	61.1	4,374	54.6	103	4,271	522	10.7	3,117
20 to 24 years	18,093	13,992	77.3	13,056	72.2	266	12,791	936	6.7	4,101
25 to 54 years	118,734	99,888	84.1	96,991	81.7	1,838	95,153	2,897	2.9	18,846
25 to 34 years	37,816	31,911	84.4	30,815	81.5	546	30,269	1,096	3.4	5,905
25 to 29 years	18,297	15,357	83.9	14,784	80.8	259	14,525	573	3.7	2,940
30 to 34 years	19,519	16,554	84.8	16,031	82.1	287	15,744	523	3.2	2,965
35 to 44 years	44,615	37,877	84.9	36,855	82.6	745	36,110	1,022	2.7	6,738
35 to 39 years	22,301	18,801	84.3	18,244	81.8	388	17,856	557	3.0	3,500
40 to 44 years	22,314	19,076	85.5	18,611	83.4	358	18,254	465	2.4	3,238
45 to 54 years	36,303	30,100	82.9	29,320	80.8	547	28,774	780	2.6	6,202
45 to 49 years	19,645	16,598	84.5	16,161	82.3	300	15,862	437	2.6	3,047
50 to 54 years	16,657	13,502	81.1	13,159	79.0	247	12,912	343	2.5	3,155
55 to 64 years	23,353	13,918	59.6	13,585	58.2	427	13,158	333	2.4	9,436
55 to 59 years	12,961	9,050	69.8	8,847	68.3	217	8,631	203	2.2	3,910
60 to 64 years	10,392	4,867	46.8	4,738	45.6	210	4,527	130	2.7	5,525
65 years and over	32,538	4,087	12.6	3,984	12.2	257	3,727	103	2.5	28,451
65 to 69 years	9,227	2,176	23.6	2,105	22.8	104	2,000	71	3.3	7,052
70 to 74 years	8,478	1,117	13.2	1,101	13.0	74	1,027	16	1.4	7,361
75 years and over	14,833	794	5.4	778	5.2	78	700	16	2.0	14,039
Men										
16 years and over	100,264	74,631	74.4	71,699	71.5	2,208	69,492	2,932	3.9	25,632
16 to 19 years	8,212	4,172	50.8	3,575	43.5	161	3,414	597	14.3	4,040
16 to 17 years	4,174	1,627	39.0	1,360	32.6	72	1,288	267	16.4	2,547
18 to 19 years	4,038	2,545	63.0	2,215	54.9	89	2,126	330	13.0	1,493
20 to 24 years	8,986	7,393	82.3	6,821	75.9	203	6,618	571	7.7	1,593
25 to 54 years	58,074	53,150	91.5	51,626	88.9	1,345	50,281	1,523	2.9	4,924
25 to 34 years	18,486	17,088	92.4	16,561	89.6	407	16,154	527	3.1	1,398
25 to 29 years	8,938	8,156	91.3	7,870	88.1	198	7,672	286	3.5	781
30 to 34 years	9,549	8,932	93.5	8,691	91.0	210	8,482	241	2.7	617
35 to 44 years	21,920	20,330	92.7	19,791	90.3	571	19,220	538	2.6	1,590
35 to 39 years	10,979	10,242	93.3	9,964	90.8	305	9,659	278	2.7	737
40 to 44 years	10,941	10,088	92.2	9,828	89.8	266	9,562	260	2.6	853
45 to 54 years	17,668	15,732	89.0	15,274	86.5	367	14,907	458	2.9	1,936
45 to 49 years	9,575	8,615	90.0	8,360	87.3	205	8,154	255	3.0	960
50 to 54 years	8,093	7,117	87.9	6,914	85.4	161	6,753	203	2.8	976
55 to 64 years	11,178	7,544	67.5	7,367	65.9	295	7,072	177	2.4	3,634
55 to 59 years	6,240	4,812	77.1	4,728	75.8	152	4,576	84	1.8	1,427
60 to 64 years	4,939	2,732	55.3	2,639	53.4	144	2,495	93	3.4	2,207
65 years and over	13,814	2,373	17.2	2,310	16.7	204	2,106	63	2.7	11,441
65 to 69 years	4,283	1,245	29.1	1,197	28.0	89	1,108	48	3.8	3,038
70 to 74 years	3,738	638	17.1	630	16.9	62	568	7	1.1	3,101
75 years and over	5,793	490	8.5	482	8.3	52	430	8	1.6	5,303
Women										
16 years and over	108,569	65,309	60.2	62,997	58.0	772	62,225	2,313	3.5	43,259
16 to 19 years	7,903	3,884	49.1	3,506	44.4	32	3,474	378	9.7	4,019
16 to 17 years	3,927	1,533	39.0	1,346	34.3	18	1,328	186	12.2	2,395
18 to 19 years	3,975	2,351	59.1	2,159	54.3	14	2,145	192	8.2	1,624
20 to 24 years	9,107	6,600	72.5	6,235	68.5	63	6,172	365	5.5	2,508
25 to 54 years	60,660	46,738	77.1	45,364	74.8	493	44,872	1,374	2.9	13,921
25 to 34 years	19,329	14,823	76.7	14,254	73.7	139	14,116	568	3.8	4,506
25 to 29 years	9,359	7,201	76.9	6,914	73.9	61	6,853	287	4.0	2,158
30 to 34 years	9,970	7,622	76.4	7,340	73.6	78	7,263	282	3.7	2,348
35 to 44 years	22,695	17,547	77.3	17,064	75.2	174	16,890	483	2.8	5,148
35 to 39 years	11,323	8,560	75.6	8,281	73.1	83	8,198	279	3.3	2,763
40 to 44 years	11,373	8,988	79.0	8,783	77.2	92	8,692	204	2.3	2,385
45 to 54 years	18,635	14,368	77.1	14,046	75.4	180	13,867	322	2.2	4,267
45 to 49 years	10,071	7,983	79.3	7,802	77.5	95	7,707	182	2.3	2,087
50 to 54 years	8,564	6,385	74.6	6,245	72.9	85	6,159	140	2.2	2,179
55 to 64 years	12,175	6,373	52.3	6,218	51.1	131	6,087	156	2.4	5,802
55 to 59 years	6,721	4,238	63.1	4,119	61.3	65	4,054	119	2.8	2,483
60 to 64 years	5,454	2,135	39.2	2,099	38.5	66	2,032	37	1.7	3,318
65 years and over	18,724	1,714	9.2	1,674	8.9	53	1,621	40	2.4	17,010
65 to 69 years	4,944	930	18.8	907	18.4	15	892	23	2.5	4,014
70 to 74 years	4,740	480	10.1	471	9.9	12	459	9	1.9	4,260
75 years and over	9,040	304	3.4	295	3.3	26	270	8	2.7	8,736

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-14. Employment status of the civilian noninstitutional population by age, sex, and race — Continued

(Numbers in thousands)

Age, sex, and race	December 1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
WHITE										
16 years and over	173,821	116,896	67.3	113,116	65.1	2,819	110,297	3,781	3.2	56,925
16 to 19 years	12,739	6,776	53.2	6,046	47.5	190	5,856	730	10.8	5,962
16 to 17 years	6,360	2,715	42.7	2,361	37.1	89	2,272	354	13.1	3,644
18 to 19 years	6,379	4,061	63.7	3,685	57.8	101	3,584	376	9.3	2,318
20 to 24 years	14,524	11,520	79.3	10,869	74.8	259	10,610	651	5.7	3,003
25 to 54 years	97,556	82,901	85.0	80,850	82.9	1,725	79,124	2,051	2.5	14,655
25 to 34 years	30,234	25,780	85.3	25,079	82.9	514	24,565	701	2.7	4,454
25 to 29 years	14,512	12,373	85.3	12,011	82.8	242	11,769	362	2.9	2,139
30 to 34 years	15,723	13,407	85.3	13,068	83.1	272	12,795	339	2.5	2,318
35 to 44 years	36,775	31,455	85.5	30,707	83.5	710	29,996	749	2.4	5,319
35 to 39 years	18,317	15,545	84.9	15,151	82.7	372	14,779	394	2.5	2,772
40 to 44 years	18,458	15,911	86.2	15,556	84.3	338	15,218	355	2.2	2,548
45 to 54 years	30,547	25,665	84.0	25,064	82.1	500	24,563	602	2.3	4,882
45 to 49 years	16,385	14,046	85.7	13,718	83.7	280	13,437	328	2.3	2,339
50 to 54 years	14,162	11,620	82.0	11,346	80.1	220	11,126	273	2.4	2,543
55 to 64 years	20,095	12,051	60.0	11,783	58.6	403	11,381	267	2.2	8,045
55 to 59 years	11,141	7,806	70.1	7,647	68.6	205	7,442	159	2.0	3,335
60 to 64 years	8,954	4,245	47.4	4,137	46.2	198	3,939	108	2.5	4,710
65 years and over	28,907	3,648	12.6	3,567	12.3	241	3,326	81	2.2	25,259
65 to 69 years	7,982	1,906	23.9	1,853	23.2	97	1,755	53	2.8	6,076
70 to 74 years	7,530	1,018	13.5	1,004	13.3	73	931	14	1.4	6,512
75 years and over	13,396	724	5.4	711	5.3	71	640	14	1.9	12,671
Men										
16 years and over	84,314	63,361	75.1	61,208	72.6	2,082	59,126	2,153	3.4	20,953
16 to 19 years	6,513	3,518	54.0	3,068	47.1	158	2,910	450	12.8	2,895
16 to 17 years	3,275	1,409	43.0	1,197	36.5	71	1,126	212	15.1	1,866
18 to 19 years	3,238	2,109	65.1	1,871	57.8	87	1,785	237	11.3	1,129
20 to 24 years	7,312	6,187	84.6	5,785	79.1	199	5,586	402	6.5	1,124
25 to 54 years	48,443	44,903	92.7	43,796	90.4	1,256	42,540	1,107	2.5	3,541
25 to 34 years	15,009	14,086	93.8	13,733	91.5	378	13,355	353	2.5	923
25 to 29 years	7,188	6,701	93.2	6,513	90.6	181	6,332	188	2.8	487
30 to 34 years	7,821	7,385	94.4	7,221	92.3	197	7,024	165	2.2	436
35 to 44 years	18,349	17,197	93.7	16,809	91.6	543	16,266	388	2.3	1,152
35 to 39 years	9,137	8,600	94.1	8,411	92.1	289	8,122	189	2.2	537
40 to 44 years	9,212	8,597	93.3	8,399	91.2	254	8,144	199	2.3	615
45 to 54 years	15,085	13,619	90.3	13,253	87.9	335	12,918	366	2.7	1,466
45 to 49 years	8,125	7,441	91.6	7,232	89.0	189	7,043	209	2.8	684
50 to 54 years	6,960	6,178	88.8	6,021	86.5	146	5,875	157	2.5	781
55 to 64 years	9,695	6,611	68.2	6,469	66.7	277	6,193	142	2.1	3,084
55 to 59 years	5,412	4,186	77.3	4,121	76.2	143	3,978	65	1.5	1,226
60 to 64 years	4,283	2,425	56.6	2,348	54.8	134	2,215	77	3.2	1,858
65 years and over	12,351	2,142	17.3	2,090	16.9	192	1,897	52	2.4	10,209
65 to 69 years	3,734	1,100	29.5	1,063	28.5	83	980	37	3.4	2,634
70 to 74 years	3,367	590	17.5	584	17.3	61	522	7	1.1	2,777
75 years and over	5,249	451	8.6	443	8.4	49	395	8	1.8	4,798
Women										
16 years and over	89,507	53,535	59.8	51,908	58.0	736	51,171	1,628	3.0	35,972
16 to 19 years	6,226	3,258	52.3	2,978	47.8	32	2,946	281	8.6	2,967
16 to 17 years	3,084	1,306	42.4	1,164	37.7	18	1,146	142	10.9	1,778
18 to 19 years	3,141	1,952	62.1	1,814	57.7	14	1,799	138	7.1	1,189
20 to 24 years	7,212	5,333	73.9	5,084	70.5	60	5,024	249	4.7	1,879
25 to 54 years	49,113	37,998	77.4	37,054	75.4	469	36,585	944	2.5	11,115
25 to 34 years	15,225	11,694	76.8	11,346	74.5	136	11,209	348	3.0	3,531
25 to 29 years	7,324	5,672	77.5	5,499	75.1	61	5,437	174	3.1	1,651
30 to 34 years	7,901	6,021	76.2	5,847	74.0	75	5,772	174	2.9	1,880
35 to 44 years	18,426	14,258	77.4	13,897	75.4	167	13,731	361	2.5	4,168
35 to 39 years	9,180	6,945	75.7	6,740	73.4	83	6,657	205	2.9	2,235
40 to 44 years	9,246	7,313	79.1	7,157	77.4	84	7,073	158	2.1	1,932
45 to 54 years	15,462	12,046	77.9	11,811	76.4	166	11,645	235	2.0	3,416
45 to 49 years	8,260	6,605	80.0	6,486	78.5	92	6,394	119	1.8	1,655
50 to 54 years	7,203	5,441	75.5	5,325	73.9	74	5,251	116	2.1	1,761
55 to 64 years	10,401	5,439	52.3	5,314	51.1	126	5,188	125	2.3	4,961
55 to 59 years	5,729	3,620	63.2	3,526	61.5	62	3,464	94	2.6	2,109
60 to 64 years	4,671	1,819	38.9	1,788	38.3	64	1,724	31	1.7	2,852
65 years and over	16,556	1,507	9.1	1,478	8.9	49	1,429	29	1.9	15,050
65 to 69 years	4,247	806	19.0	790	18.6	15	775	16	2.0	3,441
70 to 74 years	4,162	428	10.3	420	10.1	11	409	7	1.8	3,735
75 years and over	8,146	273	3.4	268	3.3	23	245	6	2.1	7,873

See footnotes at end of table.

A-14. Employment status of the civilian noninstitutional population by age, sex, and race — Continued

(Numbers in thousands)

Age, sex, and race	December 1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
BLACK										
16 years and over	25,051	16,488	65.8	15,302	61.1	98	15,204	1,186	7.2	8,562
16 to 19 years	2,480	938	37.8	737	29.7	2	735	201	21.4	1,542
16 to 17 years	1,254	295	23.5	221	17.7	-	221	74	24.9	959
18 to 19 years	1,226	643	52.5	516	42.1	2	514	128	19.8	583
20 to 24 years	2,645	1,870	70.7	1,615	61.1	7	1,609	255	13.6	775
25 to 54 years	14,836	12,085	81.5	11,417	77.0	68	11,350	667	5.5	2,751
25 to 34 years	5,176	4,313	83.3	3,999	77.3	20	3,979	314	7.3	863
25 to 29 years	2,553	2,071	81.1	1,903	74.6	12	1,892	168	8.1	481
30 to 34 years	2,623	2,241	85.4	2,096	79.9	9	2,087	146	6.5	382
35 to 44 years	5,647	4,661	82.5	4,436	78.6	18	4,418	225	4.8	986
35 to 39 years	2,878	2,379	82.7	2,251	78.2	8	2,244	128	5.4	498
40 to 44 years	2,770	2,282	82.4	2,185	78.9	10	2,174	97	4.3	488
45 to 54 years	4,013	3,111	77.5	2,982	74.3	29	2,953	128	4.1	902
45 to 49 years	2,317	1,806	77.9	1,717	74.1	16	1,701	88	4.9	511
50 to 54 years	1,696	1,305	76.9	1,265	74.6	13	1,252	40	3.0	391
55 to 64 years	2,339	1,276	54.6	1,230	52.6	14	1,215	46	3.6	1,063
55 to 59 years	1,303	871	66.8	837	64.2	6	831	34	3.9	432
60 to 64 years	1,036	405	39.1	393	37.9	8	384	12	3.1	631
65 years and over	2,751	319	11.6	302	11.0	8	295	17	5.2	2,431
65 to 69 years	924	213	23.0	200	21.7	6	194	13	5.9	712
70 to 74 years	751	64	8.5	62	8.3	-	62	1	(¹)	687
75 years and over	1,075	43	4.0	40	3.7	2	38	3	(¹)	1,033
Men										
16 years and over	11,237	7,729	68.8	7,112	63.3	76	7,036	618	6.0	3,507
16 to 19 years	1,218	473	38.8	354	29.0	2	352	119	25.2	746
16 to 17 years	630	149	23.7	106	16.8	-	106	44	29.2	480
18 to 19 years	589	323	54.9	248	42.1	2	246	75	23.3	265
20 to 24 years	1,212	880	72.6	735	60.7	4	731	145	16.5	332
25 to 54 years	6,706	5,647	84.2	5,326	79.4	51	5,275	321	5.7	1,059
25 to 34 years	2,313	1,972	85.3	1,838	79.5	18	1,820	135	6.8	340
25 to 29 years	1,126	928	82.3	851	75.5	12	839	77	8.3	199
30 to 34 years	1,186	1,045	88.1	987	83.2	6	981	58	5.5	141
35 to 44 years	2,585	2,228	86.2	2,106	81.5	13	2,093	122	5.5	356
35 to 39 years	1,310	1,147	87.6	1,084	82.7	8	1,076	63	5.5	163
40 to 44 years	1,275	1,081	84.8	1,023	80.2	5	1,017	59	5.4	194
45 to 54 years	1,809	1,446	79.9	1,382	76.4	20	1,362	64	4.4	363
45 to 49 years	1,050	828	78.7	786	74.9	14	772	39	4.8	224
50 to 54 years	759	620	81.7	596	78.5	13	590	25	4.0	139
55 to 64 years	1,015	575	56.7	550	54.2	11	539	25	4.3	440
55 to 59 years	550	396	72.0	382	69.4	3	379	14	3.5	154
60 to 64 years	465	179	38.6	169	36.3	8	161	11	5.9	286
65 years and over	1,066	156	14.3	147	13.5	8	139	9	5.6	931
65 to 69 years	421	121	28.7	112	26.6	6	106	9	7.3	300
70 to 74 years	276	18	6.5	18	6.5	-	18	-	(¹)	258
75 years and over	390	17	4.4	17	4.4	2	15	-	(¹)	373
Women										
16 years and over	13,814	8,759	63.4	8,190	59.3	23	8,168	569	6.5	5,055
16 to 19 years	1,262	466	36.9	384	30.4	-	384	82	17.6	797
16 to 17 years	624	146	23.3	116	18.5	-	116	30	20.5	479
18 to 19 years	638	320	50.2	268	42.0	-	268	52	16.3	318
20 to 24 years	1,433	991	69.1	880	61.4	3	878	110	11.1	443
25 to 54 years	8,130	6,438	79.2	6,092	74.9	17	6,075	346	5.4	1,692
25 to 34 years	2,863	2,340	81.7	2,161	75.5	2	2,159	179	7.7	523
25 to 29 years	1,426	1,144	80.2	1,052	73.8	-	1,052	91	8.0	283
30 to 34 years	1,437	1,197	83.3	1,109	77.1	2	1,106	88	7.4	240
35 to 44 years	3,063	2,433	79.4	2,330	76.1	5	2,325	103	4.2	630
35 to 39 years	1,568	1,232	78.6	1,168	74.5	-	1,168	64	5.2	336
40 to 44 years	1,495	1,201	80.3	1,162	77.7	5	1,157	38	3.2	294
45 to 54 years	2,204	1,665	75.5	1,600	72.6	9	1,591	64	3.9	539
45 to 49 years	1,267	980	77.3	931	73.5	2	929	49	5.0	287
50 to 54 years	937	685	73.1	670	71.5	7	663	15	2.2	252
55 to 64 years	1,324	701	53.0	679	51.3	3	676	22	3.1	623
55 to 59 years	753	475	63.1	455	60.5	3	452	20	4.2	278
60 to 64 years	571	226	39.6	224	39.2	-	224	2	.9	345
65 years and over	1,664	164	9.8	156	9.4	-	156	8	4.8	1,501
65 to 69 years	504	92	18.3	88	17.5	-	88	4	4.2	412
70 to 74 years	475	46	9.7	44	9.3	-	44	1	(¹)	429
75 years and over	685	26	3.7	23	3.3	-	23	3	(¹)	660

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

NOTE: Beginning in January 1999, data reflect revised population controls used in

the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-15. 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	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
TOTAL								
Civilian noninstitutional population	206,270	208,832	91,220	92,052	99,181	100,666	15,868	16,114
Civilian labor force	138,297	139,941	69,949	70,460	60,337	61,426	8,011	8,056
Percent of population	67.0	67.0	76.7	76.5	60.8	61.0	50.5	50.0
Employed	132,732	134,696	67,439	68,125	58,273	59,491	7,020	7,081
Agriculture	2,953	2,979	2,076	2,047	717	740	161	193
Nonagricultural industries	129,779	131,717	65,363	66,077	57,556	58,751	6,860	6,888
Unemployed	5,565	5,245	2,510	2,335	2,065	1,935	990	975
Unemployment rate	4.0	3.7	3.6	3.3	3.4	3.1	12.4	12.1
Not in labor force	67,973	68,891	21,272	21,592	38,844	39,240	7,858	8,059
White								
Civilian noninstitutional population	172,197	173,821	77,300	77,801	82,329	83,282	12,568	12,739
Civilian labor force	115,796	116,896	59,662	59,843	49,429	50,277	6,705	6,776
Percent of population	67.2	67.3	77.2	76.9	60.0	60.4	53.4	53.2
Employed	111,647	113,116	57,725	58,140	47,960	48,930	5,962	6,046
Agriculture	2,784	2,819	1,953	1,924	676	704	156	190
Nonagricultural industries	108,863	110,297	55,772	56,216	47,284	48,226	5,807	5,856
Unemployed	4,149	3,781	1,937	1,703	1,469	1,347	743	730
Unemployment rate	3.6	3.2	3.2	2.8	3.0	2.7	11.1	10.8
Not in labor force	56,401	56,925	17,638	17,958	32,900	33,005	5,863	5,962
Black								
Civilian noninstitutional population	24,561	25,051	9,808	10,018	12,291	12,552	2,462	2,480
Civilian labor force	16,136	16,488	7,047	7,257	8,089	8,293	999	938
Percent of population	65.7	65.8	71.9	72.4	65.8	66.1	40.6	37.8
Employed	14,993	15,302	6,592	6,758	7,600	7,807	801	737
Agriculture	117	98	85	74	29	23	4	2
Nonagricultural industries	14,876	15,204	6,507	6,684	7,571	7,784	798	735
Unemployed	1,143	1,186	455	499	490	486	198	201
Unemployment rate	7.1	7.2	6.5	6.9	6.1	5.9	19.8	21.4
Not in labor force	8,425	8,562	2,761	2,762	4,201	4,259	1,462	1,542

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

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

(Numbers in thousands)

Enrollment status, educational attainment, race, and Hispanic origin	December 1999								
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work
TOTAL ENROLLED									
Total, 16 to 24 years	18,631	9,227	49.5	8,527	1,717	6,810	700	183	517
16 to 19 years	12,617	5,484	43.5	4,907	542	4,365	577	124	452
20 to 24 years	6,014	3,743	62.2	3,620	1,174	2,445	123	59	65
High school	9,436	3,750	39.7	3,280	219	3,061	470	83	387
College	9,195	5,477	59.6	5,247	1,498	3,749	230	100	130
Full-time students	7,859	4,283	54.5	4,109	791	3,318	174	51	123
Part-time students	1,336	1,195	89.4	1,138	707	431	56	49	7
Men, 16 to 24 years	9,267	4,482	48.4	4,080	864	3,216	401	90	311
16 to 19 years	6,381	2,717	42.6	2,383	269	2,114	334	64	269
20 to 24 years	2,886	1,765	61.1	1,697	595	1,102	68	26	42
High school	4,949	1,967	39.8	1,683	125	1,558	284	48	236
College	4,319	2,514	58.2	2,397	739	1,658	117	42	75
Full-time students	3,796	2,038	53.7	1,940	427	1,514	98	23	74
Part-time students	522	476	91.1	457	312	145	19	18	1
Women, 16 to 24 years	9,363	4,746	50.7	4,447	852	3,594	299	93	206
16 to 19 years	6,236	2,767	44.4	2,524	273	2,251	243	60	183
20 to 24 years	3,127	1,978	63.3	1,922	579	1,343	56	33	23
High school	4,487	1,782	39.7	1,597	94	1,503	186	35	151
College	4,876	2,963	60.8	2,850	759	2,091	113	58	55
Full-time students	4,063	2,245	55.2	2,169	364	1,804	76	28	48
Part-time students	814	718	88.3	681	394	287	37	31	7
White									
Total, 16 to 24 years	14,730	7,815	53.1	7,295	1,470	5,824	520	128	392
16 to 19 years	9,950	4,698	47.2	4,263	478	3,785	435	94	342
20 to 24 years	4,781	3,117	65.2	3,032	993	2,039	85	35	50
Men	7,364	3,811	51.8	3,512	745	2,767	299	70	228
Women	7,366	4,004	54.4	3,783	726	3,057	221	58	163
High school	7,304	3,181	43.6	2,829	183	2,646	351	59	293
College	7,427	4,634	62.4	4,465	1,287	3,178	169	70	99
Full-time students	6,303	3,619	57.4	3,486	669	2,817	133	40	93
Part-time students	1,124	1,015	90.3	979	618	361	36	29	7
Black									
Total, 16 to 24 years	2,693	960	35.7	810	183	627	150	51	99
16 to 19 years	1,913	540	28.2	426	52	374	114	28	87
20 to 24 years	781	420	53.8	384	131	253	36	24	12
Men	1,269	438	34.5	349	82	267	90	19	71
Women	1,424	522	36.7	461	102	360	61	33	28
High school	1,578	408	25.9	316	35	281	92	21	72
College	1,115	552	49.5	494	149	345	58	31	27
Full-time students	961	424	44.2	386	92	295	38	11	27
Part-time students	154	128	82.8	108	57	51	20	20	-
Hispanic origin									
Total, 16 to 24 years	2,084	917	44.0	812	274	538	105	35	70
16 to 19 years	1,569	556	35.4	468	106	362	88	25	63
20 to 24 years	514	361	70.2	344	168	175	17	10	7
Men	1,038	460	44.4	408	168	240	53	18	34
Women	1,046	457	43.7	404	106	298	53	17	35
High school	1,321	414	31.3	335	64	271	78	24	54
College	763	503	65.9	476	210	266	27	12	15
Full-time students	550	326	59.4	307	101	206	19	7	12
Part-time students	213	177	82.9	169	109	60	7	5	3

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Enrollment status, educational attainment, race, and Hispanic origin	December 1999									
	Civilian noninstitutional population	Civilian labor force								Percent of labor force
		Total	Percent of population	Employed			Unemployed			
				Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	
TOTAL NOT ENROLLED										
Total, 16 to 24 years	15,576	12,821	82.3	11,610	9,879	1,731	1,211	1,130	81	9.4
16 to 19 years	3,497	2,571	73.5	2,173	1,652	521	398	364	34	15.5
20 to 24 years	12,079	10,249	84.9	9,437	8,227	1,210	813	766	47	7.9
Less than a high school diploma	3,906	2,614	66.9	2,174	1,701	474	440	411	28	16.8
High school graduates, no college	6,818	5,786	84.9	5,241	4,444	797	544	507	37	9.4
Less than a bachelor's degree	3,359	3,003	89.4	2,823	2,458	365	180	168	12	6.0
College graduates	1,493	1,418	94.9	1,371	1,276	95	47	43	4	3.3
Men, 16 to 24 years	7,930	7,083	89.3	6,316	5,646	670	767	731	37	10.8
16 to 19 years	1,831	1,455	79.5	1,192	969	222	263	248	16	18.1
20 to 24 years	6,099	5,628	92.3	5,124	4,676	448	504	483	21	9.0
Less than a high school diploma	2,147	1,717	80.0	1,450	1,239	211	267	260	7	15.6
High school graduates, no college	3,642	3,321	91.2	2,962	2,650	312	359	339	20	10.8
Less than a bachelor's degree	1,496	1,414	94.5	1,297	1,184	113	116	111	6	8.2
College graduates	645	631	97.8	606	572	34	25	21	4	3.9
Women, 16 to 24 years	7,647	5,738	75.0	5,294	4,233	1,061	444	399	45	7.7
16 to 19 years	1,666	1,116	67.0	981	683	299	135	116	19	12.1
20 to 24 years	5,980	4,622	77.3	4,313	3,550	762	309	283	26	6.7
Less than a high school diploma	1,759	897	51.0	724	461	263	173	152	21	19.2
High school graduates, no college	3,176	2,464	77.6	2,279	1,794	485	185	168	17	7.5
Less than a bachelor's degree	1,863	1,590	85.3	1,526	1,274	252	64	57	7	4.0
College graduates	848	787	92.8	765	703	62	22	22	-	2.8
White										
Total, 16 to 24 years	12,532	10,482	83.6	9,621	8,210	1,411	861	806	56	8.2
16 to 19 years	2,789	2,078	74.5	1,783	1,361	422	295	272	23	14.2
20 to 24 years	9,743	8,404	86.3	7,837	6,849	989	566	533	33	6.7
Men	6,461	5,894	91.2	5,341	4,819	522	553	537	16	9.4
Women	6,071	4,588	75.6	4,280	3,390	889	306	268	40	6.7
Less than a high school diploma	3,114	2,175	69.9	1,858	1,463	395	317	301	17	14.6
High school graduates, no college	5,464	4,676	85.6	4,286	3,674	612	390	357	32	8.3
Less than a bachelor's degree	2,715	2,447	90.2	2,333	2,009	324	114	108	7	4.7
College graduates	1,240	1,184	95.5	1,144	1,064	80	40	40	-	3.4
Black										
Total, 16 to 24 years	2,432	1,848	76.0	1,542	1,287	255	306	288	18	16.5
16 to 19 years	568	398	70.1	311	226	85	87	76	11	21.9
20 to 24 years	1,864	1,450	77.8	1,231	1,062	170	219	212	7	15.1
Men	1,161	914	78.8	740	628	111	174	161	13	19.1
Women	1,271	934	73.5	802	659	144	132	127	4	14.1
Less than a high school diploma	671	364	54.2	257	194	63	107	96	11	29.4
High school graduates, no college	1,127	927	82.2	788	628	160	139	135	4	15.0
Less than a bachelor's degree	513	446	86.9	389	363	26	57	55	2	12.9
College graduates	121	112	92.6	109	102	7	3	3	-	2.7
Hispanic origin										
Total, 16 to 24 years	2,943	2,222	75.5	1,984	1,705	279	238	216	22	10.7
16 to 19 years	763	495	64.9	402	322	80	93	87	7	18.8
20 to 24 years	2,180	1,727	79.2	1,583	1,384	199	145	129	16	8.4
Men	1,623	1,419	87.4	1,247	1,138	109	172	166	6	12.1
Women	1,320	803	60.9	737	567	170	67	50	16	8.3
Less than a high school diploma	1,411	932	66.1	813	682	131	119	114	5	12.8
High school graduates, no college	1,124	931	82.9	820	703	117	112	94	18	12.0
Less than a bachelor's degree	351	311	88.6	304	275	29	7	7	-	2.4
College graduates	56	48	(¹)	48	45	2	-	-	-	(¹)

¹ 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. Beginning in January 1999, data reflect revised population controls used in the household survey.

A-17. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, sex, race, and Hispanic origin

(Numbers in thousands)

Educational attainment	Total		Men		Women		White		Black		Hispanic origin	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
TOTAL												
Civilian noninstitutional population	172,714	174,625	82,331	83,066	90,383	91,559	145,386	146,559	19,529	19,925	16,369	16,981
Civilian labor force	116,772	117,893	62,755	63,067	54,017	54,826	97,970	98,600	13,350	13,680	11,408	11,825
Percent of population	67.6	67.5	76.2	75.9	59.8	59.9	67.4	67.3	68.4	68.7	69.7	69.6
Employed	113,078	114,559	60,769	61,303	52,309	53,256	95,158	96,200	12,654	12,950	10,695	11,316
Employment-population ratio	65.5	65.6	73.8	73.8	57.9	58.2	65.5	65.6	64.8	65.0	65.3	66.6
Unemployed	3,694	3,333	1,986	1,764	1,708	1,570	2,812	2,399	697	730	713	509
Unemployment rate	3.2	2.8	3.2	2.8	3.2	2.9	2.9	2.4	5.2	5.3	6.2	4.3
Less than a high school diploma												
Civilian noninstitutional population	29,094	28,144	13,670	13,186	15,424	14,958	23,418	22,632	4,454	4,223	7,177	7,417
Civilian labor force	12,509	11,963	7,451	7,103	5,058	4,861	10,105	9,662	1,813	1,686	4,185	4,369
Percent of population	43.0	42.5	54.5	53.9	32.8	32.5	43.1	42.7	40.7	39.9	58.3	58.9
Employed	11,609	11,236	6,949	6,755	4,660	4,481	9,423	9,160	1,635	1,514	3,822	4,091
Employment-population ratio	39.9	39.9	50.8	51.2	30.2	30.0	40.2	40.5	36.7	35.9	53.3	55.2
Unemployed	900	727	501	348	398	380	681	502	178	172	364	278
Unemployment rate	7.2	6.1	6.7	4.9	7.9	7.8	6.7	5.2	9.8	10.2	8.7	6.4
High school graduates, no college												
Civilian noninstitutional population	57,115	57,590	26,073	26,376	31,042	31,215	48,292	48,688	6,892	6,869	4,472	4,729
Civilian labor force	37,442	37,534	19,932	20,005	17,510	17,528	31,349	31,366	4,844	4,813	3,383	3,517
Percent of population	65.6	65.2	76.4	75.8	56.4	56.2	64.9	64.4	70.3	70.1	75.7	74.4
Employed	36,066	36,248	19,188	19,322	16,878	16,926	30,340	30,460	4,557	4,495	3,195	3,382
Employment-population ratio	63.1	62.9	73.6	73.3	54.4	54.2	62.8	62.6	66.1	65.4	71.4	71.5
Unemployed	1,376	1,286	744	683	632	603	1,009	906	286	318	189	135
Unemployment rate	3.7	3.4	3.7	3.4	3.6	3.4	3.2	2.9	5.9	6.6	5.6	3.8
Less than a bachelor's degree¹												
Civilian noninstitutional population	43,022	44,069	19,908	20,134	23,114	23,934	36,269	36,813	5,133	5,562	2,919	3,067
Civilian labor force	31,933	32,544	16,087	16,144	15,846	16,399	26,625	26,982	4,106	4,377	2,347	2,470
Percent of population	74.2	73.8	80.8	80.2	68.6	68.5	73.4	73.3	80.0	78.7	80.4	80.5
Employed	31,080	31,788	15,648	15,762	15,432	16,026	25,986	26,436	3,925	4,205	2,235	2,404
Employment-population ratio	72.2	72.1	78.6	78.3	66.8	67.0	71.6	71.8	76.5	75.6	76.6	78.4
Unemployed	853	756	439	383	414	373	639	547	181	172	112	66
Unemployment rate	2.7	2.3	2.7	2.4	2.6	2.3	2.4	2.0	4.4	3.9	4.8	2.7
Some college, no degree												
Civilian noninstitutional population	29,850	30,520	14,098	14,394	15,751	16,126	25,030	25,364	3,750	3,985	2,136	2,246
Civilian labor force	21,459	22,002	11,141	11,344	10,318	10,659	17,716	18,075	2,951	3,119	1,699	1,806
Percent of population	71.9	72.1	79.0	78.8	65.5	66.1	70.8	71.3	78.7	78.3	79.5	80.4
Employed	20,860	21,502	10,840	11,087	10,021	10,415	17,274	17,702	2,816	3,012	1,622	1,749
Employment-population ratio	69.9	70.5	76.9	77.0	63.6	64.6	69.0	69.8	75.1	75.6	75.9	77.9
Unemployed	599	500	302	257	297	244	442	373	135	107	77	57
Unemployment rate	2.8	2.3	2.7	2.3	2.9	2.3	2.5	2.1	4.6	3.4	4.5	3.2
Associate degree												
Civilian noninstitutional population	13,173	13,549	5,810	5,741	7,363	7,809	11,239	11,449	1,384	1,576	783	821
Civilian labor force	10,473	10,541	4,945	4,800	5,528	5,741	8,909	8,907	1,155	1,259	649	664
Percent of population	79.5	77.8	85.1	83.6	75.1	73.5	79.3	77.8	83.5	79.8	82.8	80.9
Employed	10,220	10,286	4,808	4,675	5,411	5,611	8,712	8,734	1,110	1,193	613	655
Employment-population ratio	77.6	75.9	82.8	81.4	73.5	71.9	77.5	76.3	80.2	75.7	78.3	79.8
Unemployed	253	255	137	126	116	130	197	174	46	65	36	9
Unemployment rate	2.4	2.4	2.8	2.6	2.1	2.3	2.2	1.9	4.0	5.2	5.5	1.4
College graduates												
Civilian noninstitutional population	43,484	44,821	22,681	23,370	20,803	21,451	37,407	38,425	3,050	3,272	1,801	1,769
Civilian labor force	34,889	35,852	19,285	19,815	15,603	16,037	29,892	30,590	2,588	2,803	1,492	1,469
Percent of population	80.2	80.0	85.0	84.8	75.0	74.8	79.9	79.6	84.9	85.7	82.8	83.0
Employed	34,323	35,287	18,984	19,464	15,339	15,823	29,410	30,145	2,537	2,735	1,444	1,439
Employment-population ratio	78.9	78.7	83.7	83.3	73.7	73.8	78.6	78.5	83.2	83.6	80.2	81.3
Unemployed	566	565	302	351	264	214	482	445	51	68	48	30
Unemployment rate	1.6	1.6	1.6	1.8	1.7	1.3	1.6	1.5	2.0	2.4	3.2	2.0

¹ Includes the categories, some college, no degree; and associate degree.

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-18. Employed and unemployed full- and part-time workers by age, sex, and race

(In thousands)

Age, sex, and race	December 1999									
	Employed ¹								Unemployed	
	Full-time workers				Part-time workers				Looking for full-time work	Looking for part-time work
	Total	At work		Not at work	Total	At work ²		Not at work		
		35 hours or more	1 to 34 hours for economic or noneconomic reasons			Part time for economic reasons	Part time for noneconomic reasons			
TOTAL										
Total, 16 years and over	111,054	99,657	8,746	2,651	23,642	2,105	20,498	1,039	4,210	1,035
16 to 19 years	2,194	1,874	289	31	4,886	180	4,553	154	488	487
16 to 17 years	197	153	44	-	2,509	19	2,428	62	125	329
18 to 19 years	1,997	1,721	246	31	2,377	161	2,125	91	364	158
20 years and over	108,860	97,783	8,456	2,620	18,756	1,925	15,945	885	3,721	549
20 to 24 years	9,401	8,453	756	192	3,655	371	3,154	129	824	112
25 years and over	99,459	89,330	7,701	2,428	15,101	1,554	12,791	756	2,897	437
25 to 54 years	86,396	77,882	6,549	1,966	10,594	1,399	8,707	489	2,612	285
55 years and over	13,062	11,449	1,152	462	4,506	155	4,084	267	285	151
Men, 16 years and over	63,855	58,043	4,364	1,449	7,844	885	6,619	340	2,416	516
16 to 19 years	1,239	1,065	161	13	2,336	67	2,205	64	312	285
20 years and over	62,617	56,978	4,203	1,436	5,508	818	4,414	276	2,104	231
20 to 24 years	5,271	4,802	378	91	1,550	199	1,285	66	509	63
25 years and over	57,345	52,176	3,825	1,344	3,958	619	3,130	210	1,595	168
25 to 54 years	49,498	45,273	3,183	1,042	2,129	550	1,487	91	1,447	76
55 years and over	7,847	6,903	642	302	1,830	69	1,642	119	148	92
Women, 16 years and over	47,199	41,614	4,382	1,202	15,798	1,219	13,879	699	1,794	519
16 to 19 years	956	809	129	18	2,550	112	2,348	90	176	202
20 years and over	46,243	40,806	4,254	1,184	13,248	1,107	11,531	609	1,617	317
20 to 24 years	4,130	3,651	378	101	2,105	172	1,870	63	316	49
25 years and over	42,113	37,155	3,876	1,083	11,142	935	9,661	546	1,302	268
25 to 54 years	36,899	32,609	3,366	924	8,466	849	7,220	397	1,165	209
55 years and over	5,215	4,546	510	160	2,677	87	2,442	149	137	59
White										
Men, 16 years and over	54,601	49,656	3,760	1,185	6,607	641	5,677	289	1,788	365
16 to 19 years	1,046	907	129	10	2,023	54	1,914	55	245	205
20 years and over	53,556	48,749	3,631	1,175	4,584	587	3,763	234	1,542	161
20 to 24 years	4,518	4,126	316	76	1,267	141	1,080	46	363	40
25 years and over	49,037	44,623	3,315	1,099	3,318	446	2,684	188	1,180	121
25 to 54 years	42,146	38,569	2,741	836	1,650	394	1,175	81	1,058	49
55 years and over	6,891	6,054	574	263	1,668	52	1,509	107	121	72
Women, 16 years and over	38,034	33,476	3,608	949	13,874	906	12,358	609	1,212	416
16 to 19 years	793	666	115	13	2,185	84	2,024	77	121	160
20 years and over	37,241	32,811	3,493	937	11,689	822	10,334	532	1,091	256
20 to 24 years	3,323	2,930	308	85	1,761	132	1,578	51	205	43
25 years and over	33,917	29,880	3,185	852	9,928	690	8,756	481	886	212
25 to 54 years	29,529	26,055	2,750	724	7,525	618	6,560	347	775	170
55 years and over	4,388	3,826	435	128	2,403	72	2,197	134	111	43
Black										
Men, 16 years and over	6,318	5,718	413	187	794	182	589	23	496	122
16 to 19 years	152	123	26	3	202	13	182	6	51	68
20 years and over	6,166	5,595	387	184	592	169	406	17	445	54
20 to 24 years	558	496	47	15	177	43	128	6	128	16
25 years and over	5,608	5,099	340	169	415	126	278	11	316	38
25 to 54 years	5,009	4,577	293	138	317	116	194	7	301	20
55 years and over	599	522	47	31	98	10	84	4	16	17
Women, 16 years and over	6,851	6,061	597	193	1,339	253	1,026	60	489	79
16 to 19 years	126	108	12	6	257	23	222	13	52	30
20 years and over	6,725	5,953	585	188	1,081	230	804	48	437	49
20 to 24 years	635	574	44	16	246	31	206	8	108	3
25 years and over	6,091	5,378	540	172	836	199	598	39	329	47
25 to 54 years	5,472	4,843	483	146	619	192	395	32	310	36
55 years and over	618	535	57	26	217	6	203	7	19	11

¹ Employed persons are classified as full- or part-time workers based on their usual weekly hours at all jobs regardless of the number of hours they are at work during the reference week. Persons absent from work also are classified according to their usual status.

² Includes some persons at work 35 hours or more classified by their reason for working part time.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-19. Employed persons 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	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
Total	132,732	134,696	70,930	71,699	67,439	68,125	61,801	62,997	58,273	59,491
Managerial and professional specialty	40,007	41,038	20,266	20,568	20,156	20,436	19,741	20,471	19,557	20,260
Executive, administrative, and managerial	19,415	20,023	10,729	10,837	10,686	10,784	8,686	9,187	8,642	9,123
Officials and administrators, public administration	840	810	463	382	463	382	377	429	373	426
Other executive, administrative, and managerial	13,707	14,162	8,209	8,370	8,170	8,324	5,498	5,792	5,461	5,743
Management-related occupations	4,868	5,050	2,057	2,084	2,053	2,078	2,811	2,966	2,808	2,953
Professional specialty	20,592	21,015	9,537	9,731	9,471	9,653	11,055	11,284	10,914	11,138
Engineers	2,121	2,128	1,888	1,881	1,886	1,878	233	247	233	247
Mathematical and computer scientists	1,743	1,870	1,189	1,316	1,181	1,316	554	554	554	554
Natural scientists	603	556	430	375	430	375	174	181	174	181
Health diagnosing occupations	1,100	1,051	839	787	839	787	261	264	258	264
Health assessment and treating occupations	2,997	2,919	415	444	415	442	2,582	2,475	2,579	2,471
Teachers, college and university	1,033	1,029	544	563	540	559	489	466	481	454
Teachers, except college and university	5,188	5,405	1,378	1,386	1,362	1,352	3,810	4,018	3,765	3,958
Lawyers and judges	925	985	647	659	647	659	278	326	278	326
Other professional specialty occupations	4,881	5,072	2,208	2,320	2,171	2,286	2,674	2,752	2,592	2,681
Technical, sales, and administrative support	38,517	39,560	13,794	14,249	12,889	13,335	24,723	25,312	22,779	23,425
Technicians and related support	4,137	4,517	1,869	2,167	1,827	2,129	2,269	2,349	2,239	2,303
Health technologists and technicians	1,691	1,775	316	308	304	300	1,375	1,467	1,348	1,441
Engineering and science technicians	1,102	1,261	805	969	783	951	297	292	295	284
Technicians, except health, engineering, and science	1,345	1,481	748	890	739	878	597	590	596	578
Sales occupations	16,189	16,541	7,981	7,986	7,375	7,381	8,208	8,555	6,907	7,283
Supervisors and proprietors	4,803	4,942	2,911	2,808	2,883	2,782	1,892	2,134	1,858	2,094
Sales representatives, finance and business services	2,733	2,873	1,563	1,622	1,532	1,609	1,170	1,251	1,138	1,232
Sales representatives, commodities, except retail	1,543	1,492	1,169	1,067	1,159	1,059	374	425	359	406
Sales workers, retail and personal services	7,031	7,143	2,313	2,459	1,776	1,900	4,718	4,684	3,498	3,497
Sales-related occupations	79	91	24	30	24	30	54	61	54	53
Administrative support, including clerical	18,190	18,503	3,944	4,096	3,688	3,825	14,246	14,407	13,633	13,839
Supervisors	702	698	290	284	289	280	412	414	410	412
Computer equipment operators	373	360	183	160	181	139	190	200	187	199
Secretaries, stenographers, and typists	3,452	3,230	100	59	91	50	3,352	3,172	3,269	3,090
Financial records processing	2,221	2,084	203	172	199	165	2,018	1,912	1,986	1,883
Mail and message distributing	984	1,024	599	571	589	542	385	452	373	433
Other administrative support, including clerical	10,459	11,107	2,571	2,850	2,338	2,650	7,889	8,257	7,408	7,822
Service occupations	17,873	17,582	7,094	6,975	6,129	6,002	10,779	10,607	9,658	9,488
Private household	870	857	49	51	44	36	821	806	741	729
Protective service	2,356	2,283	1,936	1,842	1,885	1,802	420	442	400	415
Service, except private household and protective	14,647	14,442	5,109	5,083	4,200	4,165	9,538	9,359	8,517	8,343
Food service	6,140	6,101	2,699	2,610	1,983	1,907	3,441	3,490	2,769	2,814
Health service	2,447	2,360	252	260	228	243	2,196	2,100	2,119	2,017
Cleaning and building service	3,006	3,032	1,635	1,664	1,509	1,544	1,372	1,369	1,301	1,296
Personal service	3,053	2,949	524	549	480	470	2,529	2,400	2,329	2,216
Precision production, craft, and repair	14,586	14,988	13,279	13,596	12,941	13,256	1,308	1,392	1,273	1,345
Mechanics and repairers	4,875	4,810	4,700	4,572	4,566	4,475	175	238	172	227
Construction trades	5,665	6,109	5,529	5,949	5,374	5,772	136	160	134	155
Other precision production, craft, and repair	4,047	4,069	3,050	3,076	3,001	3,010	997	993	967	963
Operators, fabricators, and laborers	18,702	18,546	14,066	13,904	13,055	12,888	4,636	4,642	4,420	4,422
Machine operators, assemblers, and inspectors	7,787	7,295	4,899	4,479	4,735	4,288	2,889	2,816	2,823	2,754
Transportation and material moving occupations	5,633	5,674	5,028	5,048	4,901	4,940	605	627	602	606
Motor vehicle operators	4,367	4,394	3,839	3,855	3,736	3,772	528	538	525	521
Other transportation and material moving occupations	1,266	1,281	1,189	1,193	1,165	1,168	77	88	77	85
Handlers, equipment cleaners, helpers, and laborers	5,282	5,577	4,139	4,377	3,419	3,661	1,143	1,199	995	1,061
Construction laborers	799	1,057	769	1,023	700	911	30	35	30	35
Other handlers, equipment cleaners, helpers, and laborers	4,482	4,519	3,370	3,355	2,718	2,750	1,112	1,165	965	1,027
Farming, forestry, and fishing	3,046	2,981	2,431	2,407	2,268	2,206	615	574	586	551
Farm operators and managers	1,080	1,009	813	774	810	771	267	235	264	234
Other farming, forestry, and fishing occupations	1,966	1,973	1,618	1,633	1,458	1,435	348	339	322	318

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-20. Employed persons by occupation, race, and sex

(Percent distribution)

Occupation and race	Total		Men		Women	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
TOTAL						
Total, 16 years and over (thousands)	132,732	134,696	70,930	71,699	61,801	62,997
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	30.1	30.5	28.6	28.7	31.9	32.5
Executive, administrative, and managerial	14.6	14.9	15.1	15.1	14.1	14.6
Professional specialty	15.5	15.6	13.4	13.6	17.9	17.9
Technical, sales, and administrative support	29.0	29.4	19.4	19.9	40.0	40.2
Technicians and related support	3.1	3.4	2.6	3.0	3.7	3.7
Sales occupations	12.2	12.3	11.3	11.1	13.3	13.6
Administrative support, including clerical	13.7	13.7	5.6	5.7	23.1	22.9
Service occupations	13.5	13.1	10.0	9.7	17.4	16.8
Private household	.7	.6	.1	.1	1.3	1.3
Protective service	1.8	1.7	2.7	2.6	.7	.7
Service, except private household and protective	11.0	10.7	7.2	7.1	15.4	14.9
Precision production, craft, and repair	11.0	11.1	18.7	19.0	2.1	2.2
Operators, fabricators, and laborers	14.1	13.8	19.8	19.4	7.5	7.4
Machine operators, assemblers, and inspectors	5.9	5.4	6.9	6.2	4.7	4.5
Transportation and material moving occupations	4.2	4.2	7.1	7.0	1.0	1.0
Handlers, equipment cleaners, helpers, and laborers	4.0	4.1	5.8	6.1	1.8	1.9
Farming, forestry, and fishing	2.3	2.2	3.4	3.4	1.0	.9
White						
Total, 16 years and over (thousands)	111,647	113,116	60,722	61,208	50,924	51,908
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	31.1	31.3	29.5	29.4	33.1	33.6
Executive, administrative, and managerial	15.3	15.5	15.9	15.8	14.5	15.0
Professional specialty	15.9	15.9	13.5	13.6	18.7	18.6
Technical, sales, and administrative support	29.1	29.3	19.4	19.8	40.6	40.6
Technicians and related support	3.1	3.3	2.6	3.0	3.7	3.7
Sales occupations	12.4	12.6	11.6	11.6	13.5	13.9
Administrative support, including clerical	13.5	13.4	5.2	5.2	23.4	23.0
Service occupations	12.3	11.9	9.0	8.8	16.3	15.6
Private household	.6	.6	.1	(¹)	1.3	1.2
Protective service	1.7	1.6	2.6	2.5	.6	.6
Service, except private household and protective	10.0	9.7	6.3	6.3	14.4	13.9
Precision production, craft, and repair	11.5	11.8	19.5	20.0	2.0	2.1
Operators, fabricators, and laborers	13.4	13.2	18.9	18.5	6.9	7.0
Machine operators, assemblers, and inspectors	5.5	5.1	6.6	5.9	4.3	4.1
Transportation and material moving occupations	4.1	4.1	6.9	6.7	.9	.9
Handlers, equipment cleaners, helpers, and laborers	3.8	4.0	5.5	5.8	1.8	1.9
Farming, forestry, and fishing	2.5	2.5	3.7	3.7	1.1	1.0
Black						
Total, 16 years and over (thousands)	14,993	15,302	6,945	7,112	8,048	8,190
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	20.9	22.4	18.1	19.3	23.3	25.2
Executive, administrative, and managerial	10.1	10.9	9.4	9.7	10.6	12.0
Professional specialty	10.8	11.5	8.6	9.5	12.7	13.3
Technical, sales, and administrative support	28.9	29.5	18.4	19.6	38.0	38.1
Technicians and related support	3.0	3.0	2.4	2.5	3.4	3.5
Sales occupations	10.1	9.6	7.9	7.5	12.0	11.5
Administrative support, including clerical	15.8	16.8	8.1	9.6	22.5	23.1
Service occupations	21.7	20.8	17.2	16.4	25.5	24.7
Private household	.9	1.0	.1	.2	1.6	1.7
Protective service	2.7	2.7	4.2	3.8	1.5	1.8
Service, except private household and protective	18.0	17.1	13.0	12.4	22.4	21.2
Precision production, craft, and repair	7.9	7.7	14.5	13.7	2.2	2.5
Operators, fabricators, and laborers	19.5	18.7	29.9	29.5	10.6	9.3
Machine operators, assemblers, and inspectors	8.1	7.1	10.1	8.6	6.4	5.8
Transportation and material moving occupations	5.8	6.1	10.4	11.4	1.8	1.6
Handlers, equipment cleaners, helpers, and laborers	5.6	5.4	9.4	9.4	2.4	1.9
Farming, forestry, and fishing	1.1	.9	1.9	1.6	.5	.2

¹ Less than 0.05 percent.

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey.

A-21. Employed persons by industry and occupation

(In thousands)

Industry	December 1999												
	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	2,979	147	96	39	13	133	-	12	61	15	45	13	2,405
Mining	556	92	55	17	3	51	-	5	192	26	88	27	-
Construction	9,483	1,415	177	56	118	396	-	44	5,464	113	556	1,124	21
Manufacturing	20,084	2,982	1,986	696	767	1,919	-	229	3,875	5,775	751	1,044	60
Durable goods	12,238	1,785	1,314	469	357	1,020	-	112	2,737	3,505	413	470	57
Nondurable goods	7,846	1,198	672	228	410	899	-	117	1,138	2,270	338	573	4
Transportation and public utilities	9,653	1,314	556	339	296	2,431	-	288	1,350	98	2,422	542	17
Wholesale and retail trade	28,053	2,521	602	333	11864	2,294	-	5,100	1,497	406	1,129	2,245	63
Wholesale trade	5,152	625	171	70	2,050	773	-	59	367	123	490	391	33
Retail trade	22,900	1,895	431	262	9,813	1,521	-	5,041	1,131	283	639	1,854	31
Finance, insurance, and real estate	8,781	2,677	401	194	2,252	2,735	-	295	165	6	19	10	29
Services	49,195	7,459	16,121	2,631	1,190	7,336	857	9,075	2,182	821	634	541	348
Private households	979	4	5	4	-	13	857	67	-	2	4	11	12
Other service industries	48,216	7,455	16,116	2,626	1,190	7,323	-	9,008	2,182	819	630	530	336
Professional services	32,928	4,602	13,869	2,114	209	5,516	-	5,472	473	180	321	98	74
Public administration	5,911	1,417	1,022	212	40	1,208	-	1,678	202	35	30	31	36

¹ Includes protective service, not shown separately.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-22. Employed persons in agriculture and nonagricultural industries by age, sex, and class of worker

(In thousands)

Age and sex	December 1999									
	Agriculture			Nonagricultural industries						
	Wage and salary workers	Self-employed workers	Unpaid family workers	Wage and salary workers					Self-employed workers	Unpaid family workers
				Total	Private industries			Government		
					Total	Private household workers	Other private industries			
Total, 16 years and over	1,822	1,127	31	123,053	103,885	972	102,912	19,169	8,566	97
16 to 19 years	173	9	11	6,830	6,525	98	6,427	305	52	6
16 to 17 years	77	5	8	2,594	2,513	69	2,444	81	22	-
18 to 19 years	96	4	3	4,235	4,012	29	3,983	224	30	6
20 to 24 years	256	5	4	12,560	11,415	108	11,307	1,145	229	1
25 to 34 years	412	133	-	28,860	25,225	155	25,070	3,635	1,395	14
35 to 44 years	473	264	8	33,588	28,134	209	27,926	5,454	2,490	31
45 to 54 years	290	255	2	26,353	20,584	190	20,394	5,769	2,402	19
55 to 64 years	172	252	3	11,797	9,415	137	9,278	2,382	1,351	11
65 years and over	45	209	2	3,065	2,587	76	2,510	478	647	15
Men, 16 years and over	1,339	860	9	64,115	55,898	80	55,818	8,217	5,354	23
16 to 19 years	147	8	6	3,375	3,250	19	3,230	126	35	4
16 to 17 years	64	5	3	1,272	1,228	15	1,213	44	17	-
18 to 19 years	83	3	3	2,104	2,022	5	2,017	82	18	4
20 to 24 years	197	4	1	6,499	6,018	18	6,000	481	119	1
25 to 34 years	297	110	-	15,278	13,750	12	13,738	1,528	868	8
35 to 44 years	359	211	1	17,688	15,340	6	15,334	2,348	1,530	2
45 to 54 years	180	186	-	13,427	11,011	8	11,003	2,416	1,480	-
55 to 64 years	118	177	-	6,205	5,114	10	5,104	1,090	861	5
65 years and over	41	163	-	1,642	1,415	7	1,408	227	461	3
Women, 16 years and over	483	267	22	58,938	47,987	893	47,094	10,952	3,212	74
16 to 19 years	26	1	5	3,454	3,275	79	3,197	179	16	3
16 to 17 years	13	-	5	1,323	1,286	55	1,231	37	5	-
18 to 19 years	13	1	-	2,131	1,990	24	1,966	142	11	3
20 to 24 years	59	-	3	6,061	5,397	90	5,307	664	111	-
25 to 34 years	115	23	-	13,582	11,475	143	11,332	2,107	527	6
35 to 44 years	114	53	7	15,900	12,794	203	12,591	3,106	960	29
45 to 54 years	110	69	1	12,925	9,573	182	9,391	3,352	922	19
55 to 64 years	53	75	3	5,592	4,300	127	4,174	1,292	489	5
65 years and over	4	46	2	1,423	1,172	69	1,102	251	186	12

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

A-23. Persons at work in agriculture and nonagricultural industries by hours of work

Hours of work	December 1999					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	131,006	2,818	128,188	100.0	100.0	100.0
1 to 34 hours	30,375	914	29,462	23.2	32.4	23.0
1 to 4 hours	1,120	84	1,036	.9	3.0	.8
5 to 14 hours	5,094	197	4,897	3.9	7.0	3.8
15 to 29 hours	15,349	392	14,957	11.7	13.9	11.7
30 to 34 hours	8,812	240	8,572	6.7	8.5	6.7
35 hours and over	100,631	1,905	98,726	76.8	67.6	77.0
35 to 39 hours	8,755	128	8,627	6.7	4.5	6.7
40 hours	49,390	749	48,641	37.7	26.6	37.9
41 hours and over	42,486	1,029	41,457	32.4	36.5	32.3
41 to 48 hours	15,399	238	15,161	11.8	8.4	11.8
49 to 59 hours	15,782	338	15,444	12.0	12.0	12.0
60 hours and over	11,305	453	10,853	8.6	16.1	8.5
Average hours, total at work	39.8	39.8	39.8	-	-	-
Average hours, persons who usually work full time	43.8	45.8	43.7	-	-	-

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

A-24. Persons at work 1 to 34 hours in all and nonagricultural industries by reason for working less than 35 hours and usual full- or part-time status

(Numbers in thousands)

Reason for working less than 35 hours	December 1999					
	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	30,375	8,746	21,629	29,462	8,406	21,056
Economic reasons	3,332	1,365	1,967	3,129	1,216	1,913
Slack work or business conditions	2,017	1,078	938	1,891	983	908
Could only find part-time work	974	-	974	964	-	964
Seasonal work	185	130	55	123	81	41
Job started or ended during week	157	157	-	152	152	-
Noneconomic reasons	27,043	7,381	19,662	26,333	7,190	19,143
Child-care problems	899	80	819	884	77	806
Other family or personal obligations	5,508	777	4,732	5,356	740	4,616
Health or medical limitations	753	-	753	736	-	736
In school or training	7,288	106	7,181	7,161	106	7,055
Retired or Social Security limit on earnings	2,113	-	2,113	1,977	-	1,977
Vacation or personal day	2,878	2,878	-	2,827	2,827	-
Holiday, legal or religious	85	85	-	81	81	-
Weather-related curtailment	263	263	-	221	221	-
All other reasons	7,256	3,192	4,064	7,091	3,138	3,953
Average hours:						
Economic reasons	23.1	23.9	22.6	23.2	24.0	22.7
Other reasons	21.2	25.8	19.5	21.3	25.8	19.5

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Persons at work in nonagricultural industries by class of worker and usual full- or part-time status

(Numbers in thousands)

Industry and class of worker	December 1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
Total, 16 years and over	128,188	29,462	3,129	7,190	19,143	98,726	39.8	43.7
Wage and salary workers	119,938	26,943	2,750	6,737	17,456	92,995	39.8	43.5
Mining	508	47	6	32	9	461	47.9	48.5
Construction	7,665	1,241	317	504	420	6,424	41.1	42.7
Manufacturing	19,286	2,090	260	999	831	17,196	42.9	44.0
Durable goods	11,789	1,186	121	632	434	10,603	43.4	44.3
Nondurable goods	7,497	904	139	368	397	6,594	42.2	43.6
Transportation and public utilities	8,942	1,373	156	569	649	7,569	42.9	44.9
Wholesale and retail trade	25,920	8,389	918	1,144	6,327	17,531	37.4	43.7
Finance, insurance, and real estate	7,865	1,404	105	507	791	6,461	40.4	42.8
Service industries	44,004	11,548	943	2,464	8,140	32,457	38.5	43.2
Private households	952	539	75	23	441	412	29.1	44.2
All other industries	43,052	11,008	868	2,441	7,699	32,044	38.7	43.2
Public administration	5,747	852	45	517	290	4,895	41.4	42.7
Self-employed workers	8,152	2,465	379	448	1,638	5,687	40.4	46.9
Unpaid family workers	97	54	—	5	49	44	31.9	(¹)

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

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

A-26. Persons at work in nonagricultural industries by age, sex, race, marital status, and usual full- or part-time status

(Numbers in thousands)

Age, sex, race, and marital status	December 1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
TOTAL								
Total, 16 years and over	128,188	29,462	3,129	7,190	19,143	98,726	39.8	43.7
16 to 19 years	6,709	4,797	239	188	4,370	1,912	24.6	40.0
16 to 17 years	2,557	2,390	31	26	2,334	167	17.6	37.0
18 to 19 years	4,152	2,406	208	162	2,036	1,745	29.0	40.3
20 years and over	121,479	24,665	2,890	7,003	14,772	96,814	40.6	43.8
20 to 24 years	12,475	4,042	467	605	2,971	8,433	36.3	42.0
25 years and over	109,004	20,623	2,423	6,398	11,801	88,381	41.1	44.0
25 to 54 years	92,805	15,742	2,149	5,453	8,140	77,063	41.8	44.1
55 years and over	16,199	4,881	274	945	3,662	11,318	37.5	43.3
Men, 16 years and over	67,805	10,964	1,536	3,355	6,073	56,841	42.6	45.2
16 to 19 years	3,341	2,269	92	97	2,080	1,072	25.6	40.2
16 to 17 years	1,257	1,168	13	14	1,141	89	18.0	37.1
18 to 19 years	2,083	1,101	79	83	939	982	30.2	40.5
20 years and over	64,464	8,694	1,444	3,259	3,992	55,769	43.4	45.3
20 to 24 years	6,467	1,745	261	280	1,204	4,722	37.9	42.9
25 years and over	57,997	6,950	1,183	2,978	2,788	51,047	44.0	45.5
25 to 54 years	49,213	4,865	1,049	2,462	1,354	44,347	44.7	45.7
55 years and over	8,784	2,084	134	516	1,434	6,700	40.1	44.6
Women, 16 years and over	60,383	18,498	1,593	3,835	13,070	41,885	36.7	41.8
16 to 19 years	3,368	2,528	147	91	2,290	840	23.7	39.7
16 to 17 years	1,300	1,222	17	12	1,193	77	17.2	36.8
18 to 19 years	2,068	1,305	130	78	1,097	763	27.7	40.0
20 years and over	57,015	15,971	1,446	3,744	10,780	41,045	37.5	41.8
20 to 24 years	6,008	2,297	206	324	1,767	3,711	34.5	41.0
25 years and over	51,007	13,673	1,240	3,420	9,013	37,334	37.8	41.9
25 to 54 years	43,593	10,877	1,100	2,991	6,785	32,716	38.4	42.0
55 years and over	7,415	2,796	140	429	2,228	4,618	34.4	41.5
Race								
White, 16 years and over	107,411	25,211	2,361	6,062	16,788	82,200	39.8	43.9
Men	57,739	9,249	1,155	2,915	5,180	48,490	42.7	45.3
Women	49,672	15,962	1,207	3,147	11,608	33,710	36.4	41.9
Black, 16 years and over	14,748	2,976	606	813	1,557	11,772	39.7	42.6
Men	6,834	1,137	300	279	559	5,696	41.5	44.1
Women	7,914	1,839	306	534	998	6,075	38.1	41.3
Marital status								
Men, 16 years and over:								
Married, spouse present	41,180	4,525	664	2,059	1,803	36,654	44.6	45.9
Widowed, divorced, or separated	7,987	1,185	269	477	439	6,802	43.1	44.9
Single (never married)	18,638	5,253	604	820	3,830	13,385	37.8	43.4
Women, 16 years and over:								
Married, spouse present	32,634	9,667	570	2,103	6,994	22,967	36.9	41.6
Widowed, divorced, or separated	12,180	2,939	395	849	1,695	9,241	38.8	42.3
Single (never married)	15,569	5,892	628	883	4,381	9,677	34.7	41.8

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-27. Persons at work in nonfarm occupations by sex and usual full- or part-time status

(Numbers in thousands)

Occupation and sex	December 1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
Total, 16 years and over ¹	128,197	29,490	3,136	7,189	19,165	98,707	39.8	43.7
Managerial and professional specialty	40,071	6,805	467	2,287	4,051	33,266	42.3	45.1
Executive, administrative, and managerial	19,627	2,727	213	1,150	1,364	16,900	43.8	45.8
Professional specialty	20,444	4,078	254	1,136	2,687	16,366	40.9	44.4
Technical, sales, and administrative support	38,573	10,761	781	2,285	7,695	27,813	37.9	42.7
Technicians and related support	4,388	975	49	358	568	3,413	39.6	42.4
Sales occupations	16,154	4,774	401	656	3,717	11,380	38.8	45.0
Administrative support, including clerical	18,032	5,012	331	1,272	3,409	13,020	36.7	41.0
Service occupations	17,018	6,485	782	805	4,898	10,533	35.3	42.8
Private household	838	485	70	21	395	353	28.9	44.3
Protective service	2,202	342	24	132	187	1,860	43.5	46.0
Service, except private household and protective	13,978	5,658	688	653	4,317	8,320	34.4	42.0
Precision production, craft, and repair	14,549	1,923	470	875	578	12,626	42.2	43.4
Operators, fabricators, and laborers	17,986	3,517	636	938	1,943	14,469	40.6	43.6
Machine operators, assemblers, and inspectors	7,052	1,038	220	373	445	6,014	41.1	42.7
Transportation and material moving occupations	5,501	892	170	250	472	4,610	43.8	46.6
Handlers, equipment cleaners, helpers, and laborers	5,433	1,587	245	315	1,027	3,845	36.8	41.7
Men, 16 years and over ¹	67,622	10,914	1,542	3,334	6,038	56,708	42.6	45.2
Managerial and professional specialty	20,202	2,356	258	934	1,163	17,846	45.2	47.0
Executive, administrative, and managerial	10,654	1,051	128	493	430	9,603	46.4	47.7
Professional specialty	9,547	1,305	130	441	734	8,243	43.8	46.1
Technical, sales, and administrative support	13,956	2,558	199	659	1,700	11,398	42.0	45.4
Technicians and related support	2,116	334	25	165	144	1,783	42.3	44.2
Sales occupations	7,833	1,396	95	254	1,047	6,437	43.1	47.0
Administrative support, including clerical	4,006	828	79	241	509	3,178	39.8	43.1
Service occupations	6,748	1,970	236	299	1,435	4,778	38.2	44.2
Private household	51	36	4	-	32	14	(²)	(²)
Protective service	1,767	217	10	104	104	1,550	45.1	46.9
Service, except private household and protective	4,931	1,716	222	195	1,299	3,214	35.9	42.9
Precision production, craft, and repair	13,200	1,676	425	802	449	11,525	42.4	43.5
Operators, fabricators, and laborers	13,517	2,355	425	640	1,291	11,161	41.5	44.4
Machine operators, assemblers, and inspectors	4,358	504	126	191	188	3,854	42.4	43.7
Transportation and material moving occupations	4,884	663	125	208	330	4,221	44.7	46.9
Handlers, equipment cleaners, helpers, and laborers	4,275	1,188	174	241	773	3,087	37.1	41.9
Women, 16 years and over ¹	60,575	18,576	1,594	3,855	13,127	41,999	36.7	41.8
Managerial and professional specialty	19,869	4,449	209	1,352	2,888	15,420	39.4	42.9
Executive, administrative, and managerial	8,973	1,676	84	658	934	7,297	40.8	43.2
Professional specialty	10,896	2,773	125	695	1,953	8,123	38.2	42.6
Technical, sales, and administrative support	24,618	8,203	582	1,626	5,995	16,415	35.5	40.9
Technicians and related support	2,272	642	25	193	424	1,630	37.0	40.4
Sales occupations	8,321	3,377	306	402	2,670	4,943	34.7	42.5
Administrative support, including clerical	14,025	4,184	252	1,031	2,901	9,842	35.7	40.3
Service occupations	10,270	4,515	546	506	3,463	5,755	33.4	41.6
Private household	788	449	66	21	362	339	28.9	43.5
Protective service	435	125	14	28	83	310	36.8	41.6
Service, except private household and protective	9,047	3,941	466	458	3,018	5,106	33.6	41.5
Precision production, craft, and repair	1,348	247	46	73	129	1,101	39.8	42.2
Operators, fabricators, and laborers	4,470	1,161	211	298	653	3,308	37.8	41.3
Machine operators, assemblers, and inspectors	2,694	534	94	182	257	2,160	39.0	41.1
Transportation and material moving occupations	618	229	45	41	142	389	37.3	43.4
Handlers, equipment cleaners, helpers, and laborers	1,158	399	71	74	254	759	35.5	40.5

¹ Excludes farming, forestry, and fishing occupations.

² Data not shown where base is less than 75,000.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

A-28. 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	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
Total, 16 years and over	3,125	2,932	4.2	3.9	2,440	2,313	3.8	3.5
Married, spouse present	1,030	998	2.3	2.2	849	781	2.5	2.2
Widowed, divorced, or separated	462	398	5.2	4.5	611	503	4.7	3.8
Single (never married)	1,633	1,536	7.9	7.2	980	1,029	5.8	6.0
White, 16 years and over	2,394	2,153	3.8	3.4	1,755	1,628	3.3	3.0
Married, spouse present	870	801	2.2	2.0	719	631	2.4	2.1
Widowed, divorced, or separated	365	291	5.0	4.0	449	368	4.4	3.5
Single (never married)	1,158	1,061	6.9	6.2	587	629	4.7	5.0
Black, 16 years and over	578	618	7.7	8.0	565	569	6.6	6.5
Married, spouse present	109	128	3.2	3.8	84	95	3.0	3.3
Widowed, divorced, or separated	77	87	6.3	6.9	137	119	6.1	5.1
Single (never married)	392	403	13.6	13.1	344	354	9.6	9.9
Total, 25 years and over	1,986	1,764	3.2	2.8	1,708	1,570	3.2	2.9
Married, spouse present	972	936	2.3	2.2	793	716	2.4	2.1
Widowed, divorced, or separated	441	369	5.1	4.3	586	469	4.6	3.7
Single (never married)	573	459	5.2	4.1	329	385	3.9	4.5
White, 25 years and over	1,562	1,301	2.9	2.4	1,249	1,098	2.8	2.4
Married, spouse present	813	754	2.1	2.0	667	569	2.3	2.0
Widowed, divorced, or separated	349	267	4.9	3.8	430	336	4.3	3.3
Single (never married)	400	279	4.6	3.2	152	193	2.6	3.3
Black, 25 years and over	330	354	5.3	5.6	367	376	5.2	5.1
Married, spouse present	109	118	3.2	3.6	83	91	3.1	3.3
Widowed, divorced, or separated	73	82	6.1	6.6	132	117	6.0	5.1
Single (never married)	148	154	8.8	8.4	152	167	6.8	7.4

NOTE: Beginning in 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-29. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
Total, 16 years and over ¹	5,565	5,245	4.0	3.7	4.2	3.9	3.8	3.5
Managerial and professional specialty	665	633	1.6	1.5	1.7	1.8	1.5	1.3
Executive, administrative, and managerial	332	346	1.7	1.7	1.7	1.7	1.6	1.7
Professional specialty	333	287	1.6	1.3	1.7	1.8	1.5	1.0
Technical, sales, and administrative support	1,319	1,304	3.3	3.2	3.1	3.0	3.5	3.3
Technicians and related support	92	95	2.2	2.1	2.4	2.2	2.0	1.9
Sales occupations	614	647	3.7	3.8	3.0	2.9	4.3	4.5
Administrative support, including clerical	614	562	3.3	2.9	3.4	3.4	3.2	2.8
Service occupations	1,061	900	5.6	4.9	6.1	4.8	5.3	4.9
Private household	81	42	8.5	4.6	(²)	(²)	8.7	4.6
Protective service	56	73	2.3	3.1	1.7	2.9	5.0	4.1
Service, except private household and protective	924	785	5.9	5.2	7.6	5.4	5.0	5.0
Precision production, craft, and repair	503	631	3.3	4.0	3.3	3.9	3.5	5.2
Mechanics and repairers	103	147	2.1	3.0	2.1	2.9	1.1	4.0
Construction trades	278	359	4.7	5.5	4.6	5.5	6.6	8.0
Other precision production, craft, and repair	122	125	2.9	3.0	2.8	2.3	3.5	5.0
Operators, fabricators, and laborers	1,274	1,174	6.4	6.0	6.2	5.6	7.1	6.9
Machine operators, assemblers, and inspectors	501	453	6.0	5.8	5.2	4.9	7.4	7.3
Transportation and material moving occupations	271	259	4.6	4.4	4.5	4.2	5.3	5.7
Handlers, equipment cleaners, helpers, and laborers	502	462	8.7	7.7	9.1	8.0	7.0	6.5
Construction laborers	137	126	14.7	10.7	14.2	10.5	(²)	(²)
Other handlers, equipment cleaners, helpers, and laborers	365	336	7.5	6.9	7.9	7.2	6.4	6.1
Farming, forestry, and fishing	355	265	10.4	8.2	10.4	7.7	10.7	10.1
No previous work experience	381	330	-	-	-	-	-	-
16 to 19 years	252	234	-	-	-	-	-	-
20 to 24 years	68	38	-	-	-	-	-	-
25 years and over	62	58	-	-	-	-	-	-

¹ Includes a small number of persons whose last job was in the Armed Forces.

² Data not shown where base is less than 75,000.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

A-30. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
Total, 16 years and over	5,565	5,245	4.0	3.7	4.2	3.9	3.8	3.5
Nonagricultural private wage and salary workers	4,408	4,231	4.1	3.9	4.3	4.0	4.0	3.8
Mining	31	21	5.3	3.8	5.7	3.9	1.8	2.7
Construction	459	557	6.5	7.1	6.5	7.4	6.7	4.2
Manufacturing	807	718	3.9	3.5	3.3	2.8	5.1	4.9
Durable goods	415	441	3.3	3.5	2.8	3.0	4.5	4.9
Lumber and wood products	33	37	4.2	4.9	4.2	6.0	3.8	-
Furniture and fixtures	23	29	3.4	4.5	1.4	1.2	8.2	10.4
Stone, clay, and glass products	23	25	3.7	3.6	4.1	3.5	2.1	4.1
Primary metal industries	25	17	3.2	2.3	3.0	2.5	4.5	1.5
Fabricated metal products	45	60	3.3	4.9	2.3	4.5	6.7	5.8
Machinery and computing equipment	94	78	3.7	3.1	3.8	2.8	3.6	4.3
Electrical machinery, equipment, and supplies	41	83	2.0	4.1	2.1	2.6	1.8	6.3
Transportation equipment	69	57	2.9	2.4	2.0	1.7	6.0	4.2
Automobiles	54	35	3.8	2.3	2.6	1.2	7.4	5.2
Other transportation equipment	16	23	1.6	2.5	1.2	2.6	3.3	2.3
Professional and photographic equipment	28	17	3.5	2.3	3.4	2.4	3.6	2.0
Other durable goods industries	35	38	5.5	5.5	3.3	4.9	8.2	6.3
Nondurable goods	392	277	4.8	3.5	4.2	2.5	5.7	4.8
Food and kindred products	111	53	6.4	3.1	5.7	2.4	7.7	4.4
Textile mill products	29	25	5.0	4.8	4.0	2.5	6.2	8.0
Apparel and other textile products	84	73	9.8	8.9	7.8	6.1	10.7	10.4
Paper and allied products	10	11	1.4	1.7	1.9	1.4	-	2.4
Printing and publishing	57	30	3.2	1.6	3.8	1.2	2.4	2.1
Chemicals and allied products	39	52	3.0	4.0	.8	4.0	7.3	4.0
Rubber and miscellaneous plastics products	54	29	5.5	3.3	6.5	2.7	3.0	4.6
Other nondurable goods industries	9	5	3.1	1.6	4.4	.8	-	3.5
Transportation and public utilities	223	215	2.9	2.7	3.0	3.1	2.5	1.8
Transportation	168	162	3.4	3.2	3.7	3.6	2.8	2.2
Communications and other public utilities	56	53	1.9	1.9	1.8	2.1	2.0	1.3
Wholesale and retail trade	1,330	1,273	4.8	4.6	5.1	4.0	4.5	5.2
Wholesale trade	207	159	4.1	3.2	3.9	2.6	4.3	4.4
Retail trade	1,122	1,114	5.0	4.9	5.5	4.5	4.5	5.3
Finance, insurance, and real estate	236	180	2.9	2.2	3.1	2.4	2.8	2.1
Service industries	1,322	1,265	3.8	3.5	4.1	4.2	3.7	3.1
Professional services	529	437	2.6	2.1	2.8	2.3	2.5	2.0
Other service industries	793	828	5.7	5.7	5.1	5.7	6.3	5.7
Agricultural wage and salary workers	234	193	12.2	9.6	13.8	8.2	7.2	13.1
Government, self-employed, and unpaid family workers	542	490	1.8	1.7	1.8	2.0	1.9	1.3
No previous work experience	381	330	-	-	-	-	-	-

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-31. Unemployed persons by reason for unemployment, sex, age, and race

(Numbers in thousands)

Reason	Total, 16 years and over		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
NUMBER OF UNEMPLOYED												
Total unemployed	5,565	5,245	2,510	2,335	2,065	1,935	990	975	4,149	3,781	1,143	1,186
Job losers and persons who completed temporary jobs	2,849	2,451	1,643	1,376	987	903	219	172	2,228	1,846	512	490
On temporary layoff	934	859	579	494	294	306	61	60	793	725	113	97
Not on temporary layoff	1,915	1,592	1,064	882	693	597	158	113	1,435	1,121	399	393
Permanent job losers	1,382	1,073	771	567	513	421	99	86	1,046	768	279	248
Persons who completed temporary jobs	533	519	294	315	180	177	59	27	389	353	121	145
Job leavers	628	718	302	361	263	257	63	100	481	574	127	120
Reentrants	1,706	1,745	525	556	725	721	456	468	1,208	1,157	402	483
New entrants	381	330	41	42	89	53	252	234	232	203	101	93
PERCENT DISTRIBUTION												
Job losers and persons who completed temporary jobs	51.2	46.7	65.5	58.9	47.8	46.7	22.1	17.7	53.7	48.8	44.8	41.3
On temporary layoff	16.8	16.4	23.1	21.1	14.3	15.8	6.2	6.1	19.1	19.2	9.9	8.2
Not on temporary layoff	34.4	30.4	42.4	37.8	33.6	30.9	16.0	11.6	34.6	29.7	34.9	33.1
Job leavers	11.3	13.7	12.0	15.5	12.8	13.3	6.4	10.3	11.6	15.2	11.1	10.1
Reentrants	30.6	33.3	20.9	23.8	35.1	37.3	46.0	48.0	29.1	30.6	35.2	40.7
New entrants	6.9	6.3	1.6	1.8	4.3	2.8	25.4	24.1	5.6	5.4	8.9	7.9
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers and persons who completed temporary jobs	2.1	1.8	2.3	2.0	1.6	1.5	2.7	2.1	1.9	1.6	3.2	3.0
Job leavers	.5	.5	.4	.5	.4	.4	.8	1.2	.4	.5	.8	.7
Reentrants	1.2	1.2	.7	.8	1.2	1.2	5.7	5.8	1.0	1.0	2.5	2.9
New entrants	.3	.2	.1	.1	.1	.1	3.1	2.9	.2	.2	.6	.6

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

A-32. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment

(Percent distribution)

Reason, sex, and age	December 1999						
	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	5,245	100.0	44.8	30.8	24.4	11.8	12.6
Job losers and persons who completed temporary jobs	2,451	100.0	48.1	30.0	21.9	11.4	10.5
On temporary layoff	859	100.0	65.3	25.3	9.4	5.5	3.8
Not on temporary layoff	1,592	100.0	38.8	32.5	28.7	14.5	14.2
Permanent job losers	1,073	100.0	38.0	30.6	31.4	17.3	14.0
Persons who completed temporary jobs	519	100.0	40.4	36.5	23.1	8.8	14.4
Job leavers	718	100.0	49.1	32.4	18.5	9.3	9.2
Reentrants	1,745	100.0	38.6	30.9	30.5	14.0	16.5
New entrants	330	100.0	43.5	32.4	24.1	9.3	14.8
Men, 20 years and over	2,335	100.0	43.7	28.0	28.3	13.0	15.3
Job losers and persons who completed temporary jobs	1,376	100.0	46.6	28.2	25.2	13.3	11.9
On temporary layoff	494	100.0	66.5	21.6	11.9	7.7	4.2
Not on temporary layoff	882	100.0	35.5	31.9	32.6	16.4	16.2
Permanent job losers	567	100.0	31.7	31.7	36.5	21.4	15.1
Persons who completed temporary jobs	315	100.0	42.1	32.2	25.6	7.5	18.1
Job leavers	361	100.0	47.0	30.3	22.6	9.1	13.6
Reentrants	556	100.0	35.1	27.4	37.5	15.1	22.4
New entrants	42	100.0	(1)	(1)	(1)	(1)	(1)
Women, 20 years and over	1,935	100.0	42.4	33.0	24.6	11.8	12.8
Job losers and persons who completed temporary jobs	903	100.0	44.6	35.0	20.4	9.9	10.5
On temporary layoff	306	100.0	60.2	33.6	6.2	2.2	4.1
Not on temporary layoff	597	100.0	36.7	35.7	27.6	13.8	13.8
Permanent job losers	421	100.0	38.3	31.1	30.6	15.2	15.4
Persons who completed temporary jobs	177	100.0	32.8	46.7	20.5	10.6	9.9
Job leavers	257	100.0	45.7	35.2	19.2	12.5	6.6
Reentrants	721	100.0	39.8	29.5	30.7	13.3	17.4
New entrants	53	100.0	(1)	(1)	(1)	(1)	(1)
Both sexes, 16 to 19 years	975	100.0	52.0	33.2	14.8	9.2	5.7
Job losers and persons who completed temporary jobs	172	100.0	78.0	18.3	3.7	3.7	-
On temporary layoff	60	100.0	(1)	(1)	(1)	(1)	(1)
Not on temporary layoff	113	100.0	76.0	20.6	3.4	3.4	-
Permanent job losers	86	100.0	78.0	21.1	.9	.9	-
Persons who completed temporary jobs	27	100.0	(1)	(1)	(1)	(1)	(1)
Job leavers	100	100.0	65.6	32.5	1.9	1.9	-
Reentrants	468	100.0	40.8	37.4	21.8	13.8	8.0
New entrants	234	100.0	49.3	36.1	14.7	7.0	7.7

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

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

A-33. Unemployed total and full-time workers by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
Total, 16 years and over	5,565	5,245	100.0	100.0	4,452	4,210	100.0	100.0
Less than 5 weeks	2,299	2,348	41.3	44.8	1,702	1,799	38.2	42.7
5 to 14 weeks	1,817	1,615	32.7	30.8	1,500	1,306	33.7	31.0
5 to 10 weeks	1,306	1,143	23.5	21.8	1,070	937	24.0	22.3
11 to 14 weeks	512	472	9.2	9.0	430	369	9.7	8.8
15 weeks and over	1,449	1,281	26.0	24.4	1,250	1,105	28.1	26.2
15 to 26 weeks	680	621	12.2	11.8	582	529	13.1	12.6
27 weeks and over	769	661	13.8	12.6	668	576	15.0	13.7
27 to 51 weeks	326	314	5.9	6.0	270	284	6.1	6.7
52 weeks and over	443	347	8.0	6.6	397	292	8.9	6.9
Average (mean) duration, in weeks	14.1	13.0	-	-	15.2	13.8	-	-
Median duration, in weeks	6.7	5.8	-	-	7.4	6.3	-	-

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-34. Unemployed persons by age, sex, race, marital status, and duration of unemployment

Sex, age, race, and marital status	December 1999							
	Thousands of persons						Weeks	
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration
				Total	15 to 26 weeks	27 weeks and over		
TOTAL								
Total, 16 years and over	5,245	2,348	1,615	1,281	621	661	13.0	5.8
16 to 19 years	975	507	323	145	89	56	8.8	4.3
20 to 24 years	936	527	231	178	101	77	10.0	4.0
25 to 34 years	1,096	462	339	295	139	156	13.6	6.6
35 to 44 years	1,022	412	335	275	133	142	14.7	7.3
45 to 54 years	780	271	259	251	113	138	16.8	7.2
55 to 64 years	333	115	99	119	39	79	18.5	8.9
65 years and over	103	55	30	19	7	12	12.8	4.2
Men, 16 years and over	2,932	1,333	862	738	350	388	13.3	5.7
16 to 19 years	597	312	208	77	47	31	8.0	4.3
20 to 24 years	571	305	136	131	67	64	12.0	4.2
25 to 34 years	527	231	170	127	51	76	13.3	6.4
35 to 44 years	538	219	165	154	82	73	14.9	7.8
45 to 54 years	458	180	126	151	74	76	16.4	6.3
55 to 64 years	177	55	39	83	25	58	22.1	10.7
65 years and over	63	31	17	15	6	9	(¹)	(¹)
Women, 16 years and over	2,313	1,016	753	544	271	273	12.7	5.8
16 to 19 years	378	195	115	68	43	25	10.0	4.3
20 to 24 years	365	222	95	47	34	13	6.8	3.4
25 to 34 years	568	231	169	168	88	80	13.8	6.9
35 to 44 years	483	193	170	121	51	69	14.5	6.7
45 to 54 years	322	90	132	100	39	61	17.4	8.3
55 to 64 years	156	60	60	36	15	21	14.4	7.1
65 years and over	40	23	13	4	1	3	(¹)	(¹)
Race								
White, 16 years and over	3,781	1,800	1,151	830	429	402	11.6	5.0
Men	2,153	1,043	611	498	247	251	12.2	4.9
Women	1,628	756	539	332	182	150	10.8	5.1
Black, 16 years and over	1,186	413	378	395	164	231	17.9	9.3
Men	618	213	197	208	88	120	17.2	9.3
Women	569	200	182	188	76	112	18.6	9.3
Marital status								
Men, 16 years and over:								
Married, spouse present	998	427	298	273	118	156	15.1	6.3
Widowed, divorced, or separated	398	162	116	119	65	54	13.4	6.8
Single (never married)	1,536	744	447	345	168	178	12.2	4.9
Women, 16 years and over:								
Married, spouse present	781	338	264	180	70	110	12.9	5.6
Widowed, divorced, or separated	503	187	178	138	77	61	13.8	7.7
Single (never married)	1,029	492	311	226	124	101	12.0	5.1

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

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

A-35. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	December 1999							
	Thousands of persons						Weeks	
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration
				Total	15 to 26 weeks	27 weeks and over		
OCCUPATION								
Managerial and professional specialty	633	220	207	206	94	112	16.3	8.0
Technical, sales, and administrative support	1,304	616	394	294	151	143	11.8	5.4
Service occupations	900	394	292	214	105	109	14.0	5.6
Precision production, craft, and repair	631	314	180	136	58	78	12.4	4.6
Operators, fabricators, and laborers	1,174	542	322	310	161	150	12.5	5.9
Farming, forestry, and fishing	265	117	108	41	21	19	9.8	5.3
INDUSTRY¹								
Agriculture	193	95	69	29	15	14	8.7	4.6
Construction	567	300	130	137	64	73	12.1	4.3
Manufacturing	718	309	215	194	98	96	14.4	6.6
Durable goods	441	201	123	116	54	62	14.2	6.0
Nondurable goods	277	108	91	77	44	34	14.9	7.3
Transportation and public utilities	241	99	67	75	28	47	15.1	6.9
Wholesale and retail trade	1,277	618	408	251	141	110	10.4	4.9
Finance, insurance, and real estate	187	70	52	66	33	33	16.0	8.5
Services	1,428	603	467	357	169	188	14.0	6.1
Public administration	119	35	42	42	19	23	17.8	9.6
No previous work experience	330	143	107	79	31	49	14.8	5.7

¹ Includes wage and salary workers only.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

A-36. Persons not in the labor force by desire and availability for work, age, and sex

(In thousands)

Category	Total		Age						Sex			
	Dec. 1998	Dec. 1999	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
Total not in the labor force	67,973	68,891	12,031	12,159	18,521	18,846	37,421	37,886	25,254	25,632	42,719	43,259
Do not want a job now ¹	63,786	64,847	10,529	10,718	16,638	17,022	36,619	37,107	23,492	23,896	40,293	40,951
Want a job ¹	4,187	4,045	1,502	1,442	1,883	1,824	802	779	1,762	1,736	2,425	2,309
Did not search for work in previous year	2,463	2,325	811	761	1,058	981	595	582	1,032	947	1,432	1,377
Searched for work in previous year ²	1,724	1,720	692	681	825	843	207	197	730	789	994	931
Not available to work now	527	579	273	253	220	279	35	47	182	232	345	346
Available to work now	1,196	1,142	419	428	605	564	172	150	548	557	649	585
Reason not currently looking:												
Discouragement over job prospects ³	358	267	107	81	187	157	64	29	214	162	145	106
Reasons other than discouragement	838	874	312	347	419	406	108	121	334	395	504	479
Family responsibilities	76	93	18	14	55	72	3	7	7	22	70	70
In school or training	194	199	159	175	23	24	11	—	83	111	110	88
Ill health or disability	87	117	5	20	64	70	18	27	34	30	52	87
Other ⁴	481	465	130	138	277	241	75	87	210	231	271	234

¹ Includes some persons who are not asked if they want a job.² Persons who had a job in the prior 12 months must have searched since the end of that job.³ Includes believes no work available, could not find work, lacks necessary schooling or training, employer thinks too young or old, and other types of discrimination.⁴ Includes those who did not actively look for work in the prior 4 weeks for such reasons as child-care and transportation problems, as well as a small number for which reason for nonparticipation was not ascertained.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED

A-37. Multiple jobholders by selected demographic and economic characteristics

(Numbers in thousands)

Characteristic	Both sexes				Men				Women			
	Number		Rate ¹		Number		Rate ¹		Number		Rate ¹	
	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
AGE												
Total, 16 years and over ²	8,220	8,037	6.2	6.0	4,163	4,026	5.9	5.6	4,057	4,011	6.6	6.4
16 to 19 years	324	347	4.6	4.9	138	128	4.0	3.6	186	220	5.3	6.3
20 years and over	7,896	7,689	6.3	6.0	4,025	3,899	6.0	5.7	3,871	3,791	6.6	6.4
20 to 24 years	770	788	6.1	6.0	338	336	5.1	4.9	432	452	7.3	7.3
25 years and over	7,125	6,901	6.3	6.0	3,687	3,563	6.1	5.8	3,439	3,338	6.6	6.3
25 to 54 years	6,281	6,043	6.5	6.2	3,244	3,104	6.3	6.0	3,037	2,939	6.8	6.5
55 years and over	844	858	5.0	4.9	442	458	4.7	4.7	402	400	5.3	5.1
55 to 64 years	720	723	5.5	5.3	357	364	5.0	4.9	363	359	6.0	5.8
65 years and over	125	135	3.2	3.4	85	94	3.8	4.1	39	41	2.4	2.4
RACE AND HISPANIC ORIGIN												
White	7,003	6,837	6.3	6.0	3,567	3,448	5.9	5.6	3,436	3,389	6.7	6.5
Black	956	903	6.4	5.9	478	431	6.9	6.1	477	473	5.9	5.8
Hispanic origin	543	491	4.1	3.5	303	265	3.8	3.2	240	226	4.5	3.8
MARITAL STATUS												
Married, spouse present	4,488	4,475	5.8	5.8	2,623	2,544	6.0	5.8	1,865	1,932	5.6	5.6
Widowed, divorced, or separated	1,434	1,373	6.9	6.5	467	442	5.5	5.2	967	930	7.8	7.3
Single (never married)	2,298	2,188	6.6	6.1	1,073	1,040	5.6	5.3	1,225	1,148	7.7	7.1
FULL- OR PART-TIME STATUS												
Primary job full time, secondary job part time	4,561	4,411	-	-	2,574	2,479	-	-	1,988	1,932	-	-
Primary and secondary jobs both part time	1,778	1,759	-	-	522	507	-	-	1,255	1,252	-	-
Primary and secondary jobs both full time	233	343	-	-	149	231	-	-	84	112	-	-
Hours vary on primary or secondary job	1,613	1,495	-	-	898	797	-	-	715	698	-	-

¹ Multiple jobholders as a percent of all employed persons in specified group.

² Includes a small number of persons who work part time on their primary job and full time on their secondary jobs(s), not shown separately.

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

A-38. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Dec. 1998	Dec. 1999	Total		Employed		Unemployed			
			Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999	Number		Percent of labor force	
							Dec. 1998	Dec. 1999	Dec. 1998	Dec. 1999
VIETNAM-ERA VETERANS										
Total, 40 years and over	7,774	7,734	6,446	6,295	6,293	6,133	153	161	2.4	2.6
40 to 54 years	5,756	5,251	5,094	4,653	4,967	4,517	126	136	2.5	2.9
40 to 44 years	610	424	542	378	517	368	24	10	4.4	2.6
45 to 49 years	2,054	1,718	1,852	1,525	1,807	1,481	46	43	2.5	2.8
50 to 54 years	3,092	3,109	2,700	2,750	2,643	2,668	57	82	2.1	3.0
55 years and over	2,018	2,483	1,353	1,642	1,325	1,616	27	26	2.0	1.6
NONVETERANS										
Total, 40 to 54 years	20,690	21,762	18,736	19,733	18,213	19,182	523	551	2.8	2.8
40 to 44 years	9,344	9,453	8,614	8,743	8,382	8,515	231	228	2.7	2.6
45 to 49 years	7,006	7,559	6,374	6,822	6,168	6,617	206	205	3.2	3.0
50 to 54 years	4,339	4,751	3,749	4,167	3,663	4,050	86	118	2.3	2.8

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonfarm payrolls by major industry, 1948 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing							Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local	
Annual averages																
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	(1)	(1)	
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	(1)	(1)	
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	(1)	(1)	
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	(1)	(1)	
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	(1)	(1)	
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	(1)	(1)	
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	(1)	(1)	
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558	
1956	52,369	45,091	21,104	822	3,039	17,243	31,264	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819	
1957	52,855	45,239	20,967	828	2,962	17,176	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071	
1958	51,322	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,765	2,191	1,415	4,232	
1959 ²	53,270	45,186	20,411	732	3,004	16,875	32,857	4,011	3,092	8,035	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	3,153	8,238	2,628	7,378	2,270	1,536	4,547	
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708	
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	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	3,258	8,520	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	3,347	8,812	2,911	8,660	2,348	1,856	5,392	
1965	60,763	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	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	3,608	9,637	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	3,700	9,906	3,185	10,045	2,719	2,302	6,371	
1968	67,897	56,058	23,737	606	3,350	19,781	44,158	4,318	3,791	10,308	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	3,919	10,785	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	4,006	11,034	3,645	11,548	2,731	2,664	7,158	
1971	71,211	58,331	22,935	609	3,704	18,623	48,276	4,476	4,014	11,338	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	4,127	11,822	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	4,291	12,315	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	4,447	12,539	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	4,430	12,630	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	4,562	13,193	4,271	14,551	2,733	3,273	8,965	
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,723	13,792	4,467	15,302	2,727	3,377	9,023	
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	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	5,221	14,972	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	5,292	15,018	5,160	17,890	2,868	3,610	9,765	
1981	91,152	75,121	25,497	1,139	4,188	20,170	65,655	5,165	5,375	15,171	5,298	18,615	2,772	3,640	9,619	
1982	89,544	73,707	23,812	1,128	3,904	18,780	65,732	5,081	5,295	15,158	5,340	19,021	2,739	3,640	9,458	
1983	90,152	74,282	23,330	952	3,946	18,432	66,821	4,952	5,283	15,587	5,466	19,664	2,774	3,662	9,434	
1984	94,408	78,384	24,718	966	4,380	19,372	69,690	5,156	5,568	16,512	5,684	20,746	2,807	3,734	9,482	
1985	97,387	80,992	24,842	927	4,668	19,248	72,544	5,233	5,727	17,315	5,948	21,927	2,875	3,832	9,687	
1986	99,344	82,651	24,533	777	4,810	18,947	74,811	5,247	5,761	17,880	6,273	22,957	2,899	3,893	9,901	
1987	101,958	84,948	24,674	717	4,958	18,999	77,284	5,362	5,848	18,422	6,533	24,110	2,943	3,967	10,100	
1988	105,209	87,823	25,125	713	5,098	19,314	80,084	5,512	6,030	19,023	6,630	25,504	2,971	4,076	10,339	
1989	107,884	90,105	25,254	692	5,171	19,391	82,630	5,614	6,187	19,475	6,668	26,907	2,988	4,182	10,609	
1990	109,403	91,098	24,905	709	5,120	19,076	84,497	5,777	6,173	19,601	6,709	27,934	3,085	4,305	10,914	
1991	108,249	89,847	23,745	689	4,650	18,406	84,504	5,755	6,081	19,284	6,646	28,336	2,966	4,355	11,081	
1992	108,601	89,956	23,231	635	4,492	18,104	85,370	5,718	5,997	19,356	6,602	29,052	2,969	4,408	11,267	
1993	110,713	91,872	23,352	610	4,668	18,075	87,361	5,811	5,981	19,773	6,757	30,197	2,915	4,488	11,438	
1994	114,163	95,036	23,908	601	4,986	18,321	90,256	5,984	6,162	20,507	6,896	31,579	2,870	4,576	11,682	
1995	117,191	97,885	24,265	581	5,160	18,524	92,925	6,132	6,378	21,187	6,806	33,117	2,822	4,635	11,849	
1996	119,608	100,189	24,493	580	5,418	18,495	95,115	6,253	6,482	21,597	6,911	34,454	2,757	4,606	12,056	
1997	122,690	103,133	24,962	596	5,691	18,675	97,727	6,408	6,648	21,966	7,109	36,040	2,699	4,582	12,276	
1998	125,826	106,007	25,347	590	5,985	18,772	100,480	6,600	6,831	22,296	7,407	37,526	2,686	4,812	12,521	
1999 ^P	128,610	108,450	25,240	535	6,273	18,432	103,370	6,791	7,003	22,784	7,633	38,999	2,669	4,695	12,795	
Monthly data, seasonally adjusted																
1998: December	127,186	107,213	25,354	570	6,173	18,611	101,832	6,684	6,901	22,525	7,542	38,207	2,701	4,652	12,620	
1999: January	127,378	107,386	25,315	560	6,170	18,585	102,063	6,708	6,924	22,556	7,570	38,313	2,702	4,644	12,646	
February	127,730	107,676	25,329	553	6,238	18,538	102,401	6,723	6,937	22,648	7,581	38,458	2,713	4,670	12,671	
March	127,813	107,726	25,285	550	6,232	18,503	102,528	6,732	6,947	22,611	7,595	38,556	2,710	4,680	12,697	
April	128,134	108,035	25,288	538	6,277	18,473	102,846	6,750	6,965	22,724	7,611	38,697	2,688	4,688	12,723	
May	128,162	108,085	25,199	531	6,239	18,429	102,963	6,758	6,977	22,748	7,621	38,782	2,666	4,677	12,734	
June	128,443	108,338	25,180	526	6,258	18,396	103,283	6,781	6,993	22,796	7,636	38,952	2,664	4,675	12,766	
July	128,616	108,663	25,247	528	6,270	18,449	103,569	6,799	7,012	22,903	7,647	39,055	2,656	4,682	12,815	
August	128,945	108,735	25,148	524	6,246	18,378	103,797	6,813	7,031	22,888	7,650	39,205	2,651	4,706	12,853	
September	129,048	108,830	25,186	527	6,293	18,366	103,862	6,831	7,041	22,882	7,653	39,257	2,654	4,717	12,847	
October	129,332	109,095	25,198	528	6,314	18,356	104,134	6,841	7,064	22,891	7,668	39,433	2,643	4,722	12,872	
November ^P	129,554	109,296	25,260	527	6,369	18,364	104,294	6,860	7,066	22,887	7,678	39,545	2,646	4,725	12,887	
December ^P	129,869	109,547	25,277	529	6,385	18,363	104,592	6,892								

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 nonfarm total for the March 1959 benchmark month.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1998) and all seasonally adjusted data (beginning January 1995) are subject to revision.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm 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	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989	34.6	9.66	334.24	43.0	13.26	570.18	37.9	13.54	513.17
1990	34.5	10.01	345.35	44.1	13.68	603.29	38.2	13.77	526.01
1991	34.3	10.32	353.98	44.4	14.19	630.04	38.1	14.00	533.40
1992	34.4	10.57	363.61	43.9	14.54	638.31	38.0	14.15	537.70
1993	34.5	10.83	373.64	44.3	14.60	646.78	38.5	14.38	553.63
1994	34.7	11.12	385.86	44.8	14.88	666.62	38.9	14.73	573.00
1995	34.5	11.43	394.34	44.7	15.30	683.91	38.9	15.09	587.00
1996	34.4	11.82	406.61	45.3	15.62	707.59	39.0	15.47	603.33
1997	34.6	12.28	424.89	45.4	16.15	733.21	39.0	16.04	625.56
1998	34.6	12.78	442.19	43.9	16.90	741.91	38.8	16.59	643.69
1999 ^P	34.5	13.24	456.78	43.9	17.05	748.50	39.0	17.13	668.07
Monthly data, not seasonally adjusted									
1998:									
December	34.7	\$13.00	\$451.10	43.7	\$17.29	\$755.57	39.1	\$16.87	\$659.62
1999:									
January	34.0	13.11	445.74	42.3	17.23	728.83	37.9	16.74	634.45
February	34.3	13.10	449.33	42.7	17.08	729.32	38.0	16.66	633.08
March	34.2	13.12	448.70	42.2	17.01	717.82	37.7	16.79	632.98
April	34.3	13.16	451.39	43.3	16.93	733.07	38.6	16.85	650.41
May	34.6	13.19	456.37	44.2	17.00	751.40	39.3	17.02	668.89
June	34.6	13.14	454.64	44.2	16.93	748.31	39.8	17.08	679.78
July	34.7	13.15	456.31	44.7	17.12	765.26	39.9	17.22	687.08
August	35.1	13.20	463.32	44.5	17.01	756.95	40.0	17.26	690.40
September	34.3	13.38	458.93	44.4	17.10	759.24	38.6	17.41	672.03
October	34.6	13.41	463.99	44.6	17.00	758.20	40.0	17.49	699.60
November ^P	34.5	13.44	463.68	44.7	16.94	757.22	39.5	17.38	686.51
December ^P	34.6	13.48	466.41	45.2	17.22	778.34	38.7	17.43	674.54

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm 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	2.60	106.08
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	2.87	115.66
1968	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.90
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	3.43	136.86
1971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.42
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	39.2	4.07	159.54
1974	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	169.94
1975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.19
1976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.27
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	38.4	6.95	266.88
1981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.68
1982	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.46
1983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.79
1984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.88
1985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.36
1986	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.72
1987	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
1988	41.1	10.19	9.73	418.81	38.2	12.24	467.57	38.1	9.98	380.24
1989	41.0	10.48	10.02	429.68	38.3	12.57	481.43	38.0	10.39	394.82
1990	40.8	10.83	10.37	441.86	38.4	12.92	496.13	38.1	10.79	411.10
1991	40.7	11.18	10.71	455.03	38.1	13.20	502.92	38.1	11.15	424.82
1992	41.0	11.46	10.95	469.86	38.3	13.43	514.37	38.2	11.39	435.10
1993	41.4	11.74	11.18	486.04	39.3	13.55	532.52	38.2	11.74	448.47
1994	42.0	12.07	11.43	506.94	39.7	13.78	547.07	38.4	12.06	463.10
1995	41.6	12.37	11.74	514.59	39.4	14.13	556.72	38.3	12.43	476.07
1996	41.6	12.77	12.12	531.23	39.6	14.45	572.22	38.3	12.87	492.92
1997	42.0	13.17	12.45	553.14	39.7	14.92	592.32	38.4	13.45	516.48
1998	41.7	13.49	12.79	562.53	39.5	15.31	604.75	38.4	14.06	539.90
1999 ^P	41.7	13.91	13.18	580.05	38.7	15.66	606.04	38.4	14.60	560.64
Monthly data, not seasonally adjusted										
1998:										
December	42.6	\$13.69	\$12.94	\$583.19	39.1	\$15.50	\$606.05	38.4	\$14.32	\$549.89
1999:										
January	41.3	13.66	12.98	564.16	38.7	15.57	602.56	38.0	14.42	547.96
February	41.3	13.66	13.00	564.16	39.0	15.56	606.84	38.3	14.38	550.75
March	41.4	13.73	13.04	568.42	38.8	15.51	601.79	38.2	14.34	547.79
April	41.6	13.80	13.10	574.08	38.6	15.57	601.00	38.3	14.48	554.58
May	41.7	13.85	13.14	577.55	38.8	15.55	603.34	38.6	14.53	560.86
June	41.8	13.91	13.17	581.44	39.0	15.56	606.84	38.4	14.44	554.50
July	41.2	13.92	13.20	573.50	38.9	15.66	609.17	38.4	14.55	558.72
August	41.8	13.95	13.20	583.11	39.4	15.67	617.40	38.7	14.65	566.96
September	41.7	14.11	13.33	588.39	38.5	15.78	607.53	38.3	14.73	564.16
October	42.0	14.04	13.27	589.68	38.4	15.76	605.18	38.6	14.78	570.51
November ^P	42.2	14.09	13.32	594.60	38.2	15.86	605.85	38.4	14.86	570.62
December ^P	42.6	14.22	13.42	605.77	38.2	15.89	607.00	38.5	14.98	576.73

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm 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	9.06	325.25	32.6	8.88	289.49
1989	28.9	6.53	188.72	35.8	9.53	341.17	32.6	9.38	305.79
1990	28.8	6.75	194.40	35.8	9.97	356.93	32.5	9.83	319.48
1991	28.6	6.94	198.48	35.7	10.39	370.92	32.4	10.23	331.45
1992	28.8	7.12	205.06	35.8	10.82	387.36	32.5	10.54	342.55
1993	28.8	7.29	209.95	35.8	11.35	406.33	32.5	10.78	350.35
1994	28.9	7.49	216.46	35.8	11.83	423.51	32.5	11.04	358.80
1995	28.8	7.69	221.47	35.9	12.32	442.29	32.4	11.39	369.04
1996	28.8	7.99	230.11	35.9	12.80	459.52	32.4	11.79	382.00
1997	28.9	8.33	240.74	36.1	13.34	481.57	32.6	12.28	400.33
1998	29.0	8.73	253.17	36.4	14.06	511.78	32.6	12.85	418.91
1999 ^p	29.0	9.08	263.32	36.2	14.61	528.88	32.6	13.39	436.51
Monthly data, not seasonally adjusted									
1998:									
December	29.2	\$8.88	\$259.30	36.2	\$14.40	\$521.28	32.6	\$13.18	\$429.67
1999:									
January	28.1	9.00	252.90	36.0	14.48	521.28	32.3	13.30	429.59
February	28.6	8.98	256.83	36.3	14.55	528.17	32.5	13.32	432.90
March	28.6	9.00	257.40	36.0	14.53	523.08	32.4	13.33	431.89
April	28.7	9.03	259.16	35.9	14.61	524.50	32.4	13.32	431.57
May	29.1	9.03	262.77	36.4	14.72	535.81	32.7	13.34	436.22
June	29.4	9.02	265.19	35.9	14.50	520.55	32.6	13.23	431.30
July	29.8	9.02	268.80	36.2	14.53	525.99	32.8	13.20	432.96
August	29.9	9.04	270.30	36.9	14.61	539.11	33.2	13.25	439.90
September	28.8	9.18	264.38	36.0	14.63	526.68	32.3	13.48	435.40
October	28.8	9.20	264.96	36.1	14.68	529.95	32.7	13.54	442.76
November ^p	28.7	9.21	264.33	36.0	14.72	529.92	32.7	13.60	444.72
December ^p	29.2	9.25	270.10	36.1	14.74	532.11	32.7	13.71	448.32

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 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-3. Employees on nonfarm payrolls by major industry and selected component groups, seasonally adjusted

(In thousands)

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P	Dec.P
Total	127,186	127,378	127,730	127,813	128,134	128,162	128,443	128,816	128,945	129,048	129,332	129,554	129,869
Total private	107,213	107,386	107,676	107,726	108,035	108,085	108,338	108,663	108,735	108,830	109,095	109,296	109,547
Goods-producing	25,354	25,315	25,329	25,285	25,288	25,199	25,180	25,247	25,148	25,186	25,198	25,260	25,277
Mining	570	560	553	550	538	531	526	528	524	527	528	527	529
Metal mining	50	50	50	50	49	49	48	48	47	48	48	49	48
Coal mining	90	89	88	87	86	86	84	85	83	83	82	82	83
Oil and gas extraction	320	312	306	305	294	287	285	285	285	287	289	288	291
Nonmetallic minerals, except fuels	110	109	109	108	109	109	109	110	109	109	109	108	107
Construction	6,173	6,170	6,238	6,232	6,277	6,239	6,258	6,270	6,246	6,293	6,314	6,369	6,385
General building contractors	1,404	1,410	1,426	1,429	1,428	1,427	1,430	1,432	1,426	1,440	1,445	1,451	1,452
Heavy construction, except building	876	871	869	864	874	854	857	857	852	857	861	869	881
Special trade contractors	3,893	3,889	3,943	3,939	3,975	3,958	3,971	3,981	3,968	3,996	4,008	4,049	4,052
Manufacturing	18,611	18,585	18,538	18,503	18,473	18,429	18,396	18,449	18,378	18,366	18,356	18,364	18,363
Durable goods	11,074	11,050	11,027	11,014	10,993	10,971	10,960	11,015	10,975	10,959	10,952	10,958	10,959
Lumber and wood products	823	826	827	827	824	824	824	826	826	827	829	830	830
Furniture and fixtures	534	534	535	535	536	537	538	546	543	544	546	543	543
Stone, clay, and glass products	570	569	571	569	570	569	568	571	568	569	568	571	571
Primary metal industries	699	696	695	693	691	689	687	692	688	685	685	687	687
Fabricated metal products	1,493	1,495	1,491	1,490	1,489	1,487	1,485	1,493	1,484	1,486	1,487	1,488	1,490
Industrial machinery and equipment	2,167	2,148	2,146	2,139	2,132	2,129	2,128	2,131	2,122	2,117	2,116	2,117	2,118
Computer and office equipment	370	362	362	360	361	362	364	360	359	358	358	357	359
Electronic and other electrical equipment	1,669	1,663	1,659	1,659	1,658	1,658	1,657	1,667	1,662	1,662	1,665	1,664	1,667
Electronic components and accessories	640	637	636	636	635	635	637	639	641	640	643	643	645
Transportation equipment	1,882	1,884	1,871	1,873	1,864	1,853	1,849	1,863	1,859	1,848	1,838	1,836	1,831
Motor vehicles and equipment	994	996	989	992	996	996	998	1,014	1,012	1,006	1,001	1,002	1,002
Aircraft and parts	518	517	510	511	503	498	491	488	483	476	471	467	463
Instruments and related products	851	849	847	844	842	839	837	840	836	833	830	833	833
Miscellaneous manufacturing	386	386	385	385	387	386	387	386	387	388	388	389	389
Nondurable goods	7,537	7,535	7,511	7,489	7,480	7,458	7,436	7,434	7,403	7,407	7,404	7,406	7,404
Food and kindred products	1,693	1,699	1,695	1,693	1,689	1,688	1,680	1,681	1,666	1,679	1,680	1,686	1,691
Tobacco products	40	40	40	39	38	38	39	39	36	38	38	38	38
Textile mill products	582	579	575	571	567	563	560	559	557	553	551	552	550
Apparel and other textile products	724	718	707	702	698	691	686	679	672	669	666	663	658
Paper and allied products	666	664	664	662	662	661	659	659	658	657	655	655	655
Printing and publishing	1,560	1,561	1,559	1,557	1,555	1,551	1,552	1,554	1,553	1,552	1,552	1,550	1,548
Chemicals and allied products	1,042	1,041	1,041	1,037	1,038	1,036	1,033	1,032	1,030	1,033	1,033	1,033	1,033
Petroleum and coal products	140	139	139	139	139	138	137	138	136	137	136	136	135
Rubber and misc. plastics products	1,012	1,016	1,015	1,014	1,019	1,018	1,016	1,021	1,022	1,017	1,021	1,022	1,026
Leather and leather products	78	78	76	75	75	74	74	72	73	72	72	71	70
Service-producing	101,832	102,063	102,401	102,528	102,846	102,963	103,263	103,569	103,797	103,862	104,134	104,294	104,592
Transportation and public utilities	6,684	6,708	6,723	6,732	6,750	6,758	6,781	6,799	6,813	6,831	6,841	6,860	6,892
Transportation	4,340	4,356	4,367	4,378	4,397	4,402	4,423	4,438	4,445	4,455	4,458	4,472	4,498
Railroad transportation	231	233	233	235	234	233	233	230	226	227	227	227	228
Local and interurban passenger transit	474	474	475	476	483	480	483	483	488	486	486	487	487
Trucking and warehousing	1,769	1,786	1,789	1,796	1,800	1,802	1,810	1,817	1,817	1,825	1,828	1,833	1,842
Water transportation	183	182	181	177	180	180	181	182	182	182	182	181	180
Transportation by air	1,205	1,204	1,213	1,218	1,220	1,226	1,234	1,240	1,246	1,250	1,251	1,259	1,273
Pipelines, except natural gas	14	14	14	14	14	13	13	13	13	13	13	13	13
Transportation services	464	463	462	462	466	468	469	473	473	472	471	472	475
Communications and public utilities	2,344	2,352	2,356	2,354	2,353	2,356	2,358	2,361	2,368	2,376	2,383	2,388	2,394
Communications	1,492	1,502	1,507	1,506	1,508	1,513	1,513	1,519	1,525	1,533	1,541	1,545	1,551
Electric, gas, and sanitary services	852	850	849	848	845	843	845	842	843	843	842	843	843
Wholesale trade	6,901	6,924	6,937	6,947	6,965	6,977	6,993	7,012	7,031	7,041	7,064	7,066	7,082
Durable goods	4,077	4,088	4,100	4,103	4,113	4,124	4,139	4,154	4,169	4,172	4,188	4,191	4,205
Nondurable goods	2,824	2,836	2,837	2,844	2,852	2,853	2,854	2,858	2,862	2,869	2,876	2,875	2,877

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-3. Employees on nonfarm payrolls by major industry and selected component groups, seasonally adjusted—Continued

(In thousands)

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Retail trade	22,525	22,556	22,648	22,611	22,724	22,748	22,796	22,903	22,888	22,862	22,891	22,887	22,952
Building materials and garden supplies	967	972	979	982	982	979	982	986	988	992	1,001	1,004	1,007
General merchandise stores	2,758	2,773	2,781	2,794	2,799	2,784	2,782	2,778	2,774	2,762	2,756	2,750	2,784
Department stores	2,456	2,470	2,475	2,489	2,499	2,486	2,482	2,476	2,468	2,460	2,455	2,447	2,469
Food stores	3,487	3,481	3,492	3,490	3,492	3,487	3,479	3,478	3,484	3,478	3,481	3,478	3,485
Automotive dealers and service stations	2,370	2,377	2,390	2,392	2,399	2,400	2,403	2,407	2,409	2,415	2,420	2,424	2,434
New and used car dealers	1,059	1,061	1,065	1,069	1,074	1,077	1,080	1,085	1,089	1,091	1,092	1,096	1,099
Apparel and accessory stores	1,147	1,152	1,167	1,167	1,163	1,172	1,178	1,192	1,191	1,189	1,200	1,199	1,191
Furniture and home furnishings stores	1,048	1,055	1,064	1,070	1,081	1,084	1,091	1,090	1,094	1,097	1,099	1,093	1,101
Eating and drinking places	7,857	7,843	7,855	7,785	7,863	7,880	7,911	7,989	7,960	7,932	7,925	7,943	7,970
Miscellaneous retail establishments	2,891	2,903	2,920	2,931	2,945	2,962	2,970	2,983	2,988	2,997	3,009	2,996	2,980
Finance, insurance, and real estate	7,542	7,570	7,581	7,595	7,611	7,621	7,636	7,647	7,650	7,653	7,668	7,678	7,690
Finance	3,663	3,675	3,681	3,690	3,697	3,706	3,709	3,715	3,716	3,715	3,719	3,725	3,735
Depository institutions	2,047	2,049	2,051	2,051	2,050	2,047	2,045	2,044	2,046	2,047	2,047	2,047	2,049
Commercial banks	1,467	1,469	1,470	1,469	1,467	1,465	1,463	1,462	1,464	1,466	1,464	1,465	1,468
Savings institutions	257	258	258	258	257	256	256	256	255	255	254	253	252
Nondepository institutions	698	705	708	712	716	720	721	721	719	713	711	710	714
Mortgage bankers and brokers	360	362	365	368	370	374	372	369	366	361	358	358	358
Security and commodity brokers	661	663	661	664	668	672	676	682	685	686	691	697	702
Holding and other investment offices	257	258	261	263	263	267	267	268	266	269	270	271	270
Insurance	2,379	2,383	2,386	2,392	2,395	2,399	2,402	2,404	2,407	2,410	2,414	2,411	2,412
Insurance carriers	1,624	1,627	1,628	1,632	1,631	1,635	1,638	1,635	1,636	1,637	1,641	1,636	1,637
Insurance agents, brokers, and service	755	756	758	760	764	764	764	769	771	773	773	775	775
Real estate	1,500	1,512	1,514	1,513	1,519	1,516	1,525	1,528	1,527	1,528	1,535	1,542	1,543
Services¹	38,207	38,313	38,458	38,556	38,697	38,782	38,952	39,055	39,205	39,257	39,433	39,545	39,654
Agricultural services	739	747	751	747	755	751	757	760	757	763	766	774	758
Hotels and other lodging places	1,783	1,785	1,786	1,789	1,791	1,786	1,797	1,807	1,813	1,811	1,806	1,810	1,804
Personal services	1,202	1,205	1,201	1,200	1,204	1,189	1,200	1,207	1,207	1,210	1,210	1,214	1,224
Business services	8,829	8,869	8,922	8,963	9,010	9,047	9,088	9,148	9,186	9,204	9,303	9,331	9,408
Services to buildings	964	971	971	973	978	979	984	992	998	1,000	1,003	1,003	997
Personnel supply services	3,292	3,308	3,331	3,343	3,350	3,366	3,387	3,422	3,418	3,440	3,490	3,504	3,531
Help supply services	2,922	2,933	2,954	2,967	2,975	2,986	3,000	3,025	3,024	3,032	3,099	3,101	3,125
Computer and data processing services	1,691	1,708	1,724	1,734	1,749	1,765	1,781	1,794	1,806	1,814	1,823	1,828	1,841
Auto repair, services, and parking	1,163	1,168	1,175	1,176	1,178	1,182	1,184	1,185	1,185	1,190	1,196	1,198	1,197
Miscellaneous repair services	390	392	392	393	396	398	395	395	396	398	400	401	405
Motion pictures	577	573	582	580	587	604	611	609	608	608	612	614	606
Amusement and recreation services	1,647	1,653	1,656	1,660	1,668	1,675	1,695	1,694	1,712	1,713	1,730	1,728	1,711
Health services	9,899	9,905	9,919	9,932	9,951	9,954	9,964	9,975	9,993	9,999	10,009	10,025	10,041
Offices and clinics of medical doctors	1,833	1,840	1,844	1,850	1,856	1,860	1,864	1,868	1,874	1,876	1,880	1,887	1,890
Nursing and personal care facilities	1,756	1,756	1,755	1,754	1,753	1,755	1,755	1,754	1,755	1,756	1,756	1,755	1,760
Hospitals	3,952	3,954	3,959	3,963	3,966	3,966	3,969	3,968	3,973	3,977	3,978	3,979	3,987
Home health care services	651	645	651	653	656	653	653	655	658	657	658	658	656
Legal services	988	989	992	995	998	999	1,002	1,000	1,004	1,007	1,009	1,012	1,015
Educational services	2,223	2,218	2,237	2,243	2,254	2,265	2,272	2,278	2,288	2,289	2,288	2,298	2,304
Social services	2,708	2,721	2,734	2,744	2,755	2,760	2,778	2,763	2,799	2,803	2,817	2,841	2,850
Child day care services	618	621	625	627	628	629	633	632	631	631	634	644	648
Residential care	762	765	768	769	772	775	777	781	785	788	792	798	802
Museums and botanical and zoological gardens	94	94	94	95	94	93	94	94	95	94	95	95	95
Membership organizations	2,380	2,385	2,389	2,392	2,392	2,394	2,409	2,403	2,409	2,408	2,409	2,411	2,419
Engineering and management services	3,292	3,316	3,335	3,354	3,370	3,391	3,411	3,441	3,458	3,464	3,487	3,498	3,521
Engineering and architectural services	922	926	930	933	939	940	942	948	948	948	954	960	965
Management and public relations	1,090	1,103	1,111	1,123	1,133	1,143	1,153	1,165	1,178	1,180	1,193	1,195	1,215
Government	19,973	19,992	20,054	20,087	20,099	20,077	20,105	20,153	20,210	20,218	20,237	20,258	20,322
Federal	2,701	2,702	2,713	2,710	2,688	2,666	2,664	2,656	2,651	2,654	2,643	2,646	2,652
Federal, except Postal Service	1,819	1,822	1,834	1,831	1,809	1,788	1,789	1,779	1,779	1,785	1,780	1,778	1,777
State	4,652	4,644	4,670	4,680	4,688	4,677	4,675	4,682	4,706	4,717	4,722	4,725	4,735
Education	1,932	1,920	1,941	1,948	1,955	1,941	1,934	1,947	1,965	1,965	1,960	1,965	1,974
Other State government	2,720	2,724	2,729	2,732	2,733	2,736	2,741	2,735	2,741	2,752	2,762	2,760	2,761
Local	12,620	12,646	12,671	12,697	12,723	12,734	12,766	12,815	12,853	12,847	12,872	12,887	12,935
Education	7,148	7,165	7,181	7,200	7,206	7,225	7,239	7,268	7,308	7,295	7,305	7,315	7,350
Other local government	5,472	5,481	5,490	5,497	5,517	5,509	5,527	5,547	5,545	5,552	5,567	5,572	5,585

¹ Includes other industries, not shown separately.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1995 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

B-4. Women employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1998			1999									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total	61,221	61,315	61,464	61,599	61,767	61,852	62,008	62,035	62,227	62,409	62,466	62,552	62,645
Total private	50,074	50,160	50,275	50,394	50,524	50,591	50,734	50,771	50,916	51,075	51,094	51,154	51,245
Goods-producing	6,700	6,680	6,675	6,674	6,658	6,647	6,643	6,630	6,632	6,640	6,617	6,612	6,610
Mining	83	82	82	82	82	82	79	78	78	78	76	76	75
Construction	674	677	679	682	687	689	695	695	700	701	704	705	708
Manufacturing	5,943	5,921	5,914	5,910	5,889	5,876	5,869	5,857	5,854	5,861	5,837	5,831	5,827
Durable goods	2,956	2,943	2,939	2,936	2,930	2,924	2,926	2,922	2,927	2,944	2,928	2,924	2,925
Lumber and wood products	145	146	147	147	148	149	148	149	149	150	150	150	151
Furniture and fixtures	168	168	169	169	170	169	170	171	171	175	174	173	175
Stone, clay, and glass products	105	105	104	104	104	104	103	102	103	104	102	102	101
Primary metal industries	105	104	103	103	102	102	101	101	101	100	100	100	100
Fabricated metal products	338	337	337	338	338	336	339	339	339	342	338	338	338
Industrial machinery and equipment	475	472	472	467	466	464	464	464	466	466	465	465	465
Electronic and other electrical equipment	689	684	682	679	677	675	676	675	675	680	676	676	676
Transportation equipment	408	406	405	408	405	407	405	404	404	408	406	403	403
Instruments and related products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing	169	169	169	169	168	168	169	168	169	170	169	170	170
Nondurable goods	2,987	2,978	2,975	2,974	2,959	2,952	2,943	2,935	2,927	2,917	2,909	2,907	2,902
Food and kindred products	551	555	558	560	557	557	554	556	555	552	550	551	553
Tobacco products	13	13	13	13	13	12	12	12	12	13	11	12	12
Textile mill products	274	271	270	269	267	266	263	261	259	259	258	256	254
Apparel and other textile products	536	529	525	521	513	508	503	498	494	488	481	479	475
Paper and allied products	162	161	161	161	161	161	161	160	160	160	160	161	160
Printing and publishing	705	703	702	702	701	701	700	698	699	700	700	700	699
Chemicals and allied products	335	335	335	335	335	336	336	337	336	334	335	337	337
Petroleum and coal products	24	24	24	24	25	25	25	25	24	24	24	24	24
Rubber and misc. plastics products	345	345	345	348	346	346	349	349	348	349	351	349	350
Leather and leather products	42	42	42	41	41	40	40	39	40	38	39	38	38
Service-producing	54,521	54,635	54,789	54,925	55,109	55,205	55,365	55,405	55,595	55,769	55,849	55,940	56,035
Transportation and public utilities	2,016	2,015	2,025	2,032	2,048	2,049	2,054	2,059	2,073	2,072	2,087	2,094	2,099
Wholesale trade	2,110	2,115	2,118	2,121	2,127	2,132	2,140	2,140	2,148	2,153	2,159	2,164	2,170
Retail trade	11,804	11,813	11,842	11,874	11,923	11,937	11,974	11,998	12,008	12,070	12,031	12,014	11,999
Finance, insurance, and real estate	4,697	4,712	4,726	4,743	4,751	4,753	4,752	4,753	4,769	4,775	4,786	4,790	4,796
Services	22,747	22,825	22,889	22,950	23,017	23,073	23,171	23,191	23,286	23,365	23,414	23,480	23,571
Government	11,147	11,155	11,189	11,205	11,243	11,261	11,274	11,264	11,311	11,334	11,372	11,398	11,400
Federal	1,148	1,151	1,141	1,141	1,148	1,149	1,133	1,124	1,126	1,125	1,124	1,129	1,125
State	2,382	2,385	2,394	2,390	2,403	2,407	2,414	2,413	2,415	2,411	2,420	2,431	2,434
Local	7,617	7,619	7,654	7,674	7,692	7,705	7,727	7,727	7,770	7,798	7,828	7,838	7,841

¹ This series is not published seasonally adjusted because the seasonal component, which is small relative to the trend-cycle and irregular components, cannot be separated with sufficient precision.

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1995 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-5. Production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Total private	87,702	87,855	88,077	88,170	88,358	88,428	88,613	88,882	88,908	89,044	89,262	89,402	89,536
Goods-producing	18,014	17,988	17,976	17,963	17,926	17,872	17,849	17,920	17,826	17,871	17,888	17,944	17,949
Mining	432	423	416	413	403	398	396	396	395	398	402	400	403
Construction	4,787	4,792	4,830	4,836	4,827	4,812	4,830	4,833	4,809	4,856	4,878	4,928	4,930
Manufacturing	12,795	12,773	12,730	12,714	12,696	12,662	12,623	12,691	12,622	12,617	12,608	12,616	12,616
Durable goods	7,568	7,548	7,529	7,527	7,519	7,504	7,487	7,549	7,513	7,496	7,489	7,494	7,487
Lumber and wood products	675	678	679	679	677	676	676	678	676	677	679	679	679
Furniture and fixtures	426	426	426	427	427	428	429	435	434	433	435	433	432
Stone, clay, and glass products	446	445	446	445	446	446	445	448	443	444	443	445	444
Primary metal industries	546	543	542	541	539	538	535	540	537	536	535	537	537
Fabricated metal products	1,123	1,126	1,121	1,119	1,119	1,118	1,115	1,125	1,115	1,116	1,117	1,118	1,119
Industrial machinery and equipment	1,369	1,357	1,355	1,351	1,347	1,346	1,343	1,347	1,335	1,333	1,331	1,333	1,332
Electronic and other electrical equipment	1,040	1,037	1,031	1,035	1,037	1,033	1,030	1,045	1,038	1,035	1,035	1,035	1,037
Transportation equipment	1,247	1,243	1,236	1,239	1,232	1,226	1,222	1,237	1,243	1,231	1,222	1,222	1,218
Motor vehicles and equipment	755	753	749	754	757	758	757	775	779	770	765	767	766
Instruments and related products	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Miscellaneous manufacturing	269	267	267	267	269	268	268	268	268	269	269	269	270
Nondurable goods	5,227	5,225	5,201	5,187	5,177	5,158	5,136	5,142	5,109	5,121	5,119	5,122	5,129
Food and kindred products	1,261	1,266	1,264	1,264	1,259	1,258	1,252	1,258	1,240	1,253	1,254	1,259	1,267
Tobacco products	31	31	30	29	29	28	29	29	25	27	27	27	27
Textile mill products	492	490	486	483	479	476	473	474	471	469	466	467	466
Apparel and other textile products	579	574	564	560	558	553	546	539	535	532	528	527	523
Paper and allied products	506	505	503	502	502	501	500	500	497	498	496	497	499
Printing and publishing	836	837	835	833	829	827	827	826	826	826	827	824	822
Chemicals and allied products	586	584	583	582	583	582	580	580	578	582	584	585	585
Petroleum and coal products	94	93	93	92	92	90	89	91	90	90	90	89	89
Rubber and misc. plastics products	784	788	786	786	790	788	785	792	793	790	794	794	800
Leather and leather products	58	57	57	56	56	55	55	53	54	54	53	53	51
Service-producing	69,688	69,867	70,101	70,207	70,432	70,556	70,764	70,962	71,082	71,173	71,374	71,458	71,587
Transportation and public utilities	5,561	5,579	5,592	5,595	5,600	5,602	5,620	5,624	5,634	5,655	5,661	5,670	5,678
Wholesale trade	5,534	5,551	5,565	5,579	5,592	5,600	5,610	5,620	5,631	5,639	5,654	5,657	5,667
Retail trade	19,750	19,798	19,888	19,888	19,976	20,009	20,055	20,164	20,145	20,120	20,122	20,128	20,169
Finance, insurance, and real estate	5,542	5,565	5,569	5,571	5,580	5,583	5,591	5,600	5,596	5,594	5,603	5,608	5,616
Services	33,301	33,374	33,487	33,574	33,684	33,762	33,888	33,954	34,076	34,165	34,334	34,395	34,457

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 component, which is small relative to the trend-cycle and irregular components,

cannot be separated with sufficient precision.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1995 forward are subject to revision.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

B-6. Diffusion indexes of employment change, seasonally adjusted

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries ¹												
Over 1-month span:												
1995	63.8	58.0	54.6	56.5	47.5	54.8	55.6	59.1	57.9	56.9	55.2	57.7
1996	49.6	64.9	59.4	55.1	61.9	60.8	57.0	62.5	57.3	63.5	59.7	61.2
1997	56.2	61.0	61.9	62.8	58.8	56.3	60.7	61.0	59.4	65.4	63.6	62.1
1998	63.8	57.9	58.8	60.5	55.9	57.9	58.0	55.8	54.6	52.9	59.1	58.6
1999	54.4	58.3	52.1	58.8	51.5	57.0	57.6	50.0	55.1	57.2	^P 58.7	^P 54.4
Over 3-month span:												
1995	63.8	62.9	58.0	53.5	53.9	52.7	59.3	61.0	59.4	58.6	57.3	55.3
1996	62.6	62.5	63.3	63.1	63.1	64.3	64.3	62.2	64.6	64.2	66.2	63.2
1997	63.8	63.6	67.7	67.3	62.6	61.7	61.4	66.2	67.3	69.9	70.8	71.2
1998	66.7	66.2	64.5	63.9	61.4	58.7	60.0	58.4	57.6	57.6	59.0	60.4
1999	60.7	55.9	59.6	54.6	56.3	56.2	56.2	59.0	57.4	^P 60.7	^P 59.8	
Over 6-month span:												
1995	66.7	59.7	58.6	56.5	59.0	60.0	57.7	61.0	60.5	59.3	61.7	63.2
1996	62.6	65.2	64.5	65.2	64.7	64.6	67.0	65.4	65.9	66.7	66.9	66.7
1997	67.4	68.3	65.6	67.0	65.6	64.9	66.3	68.4	69.7	71.3	71.3	71.9
1998	70.6	66.9	65.9	62.4	62.6	61.1	58.0	59.8	60.0	60.8	60.8	58.0
1999	61.1	58.8	57.3	59.0	55.2	57.4	56.9	^P 62.1	^P 60.0			
Over 12-month span:												
1995	63.6	62.4	62.6	63.3	61.7	61.9	58.7	62.2	62.2	61.5	63.5	65.4
1996	64.5	66.7	64.5	65.6	68.5	67.3	67.7	66.4	68.0	69.9	68.7	66.9
1997	69.0	67.3	68.3	69.7	69.5	70.1	70.1	70.4	70.5	69.7	69.8	71.3
1998	70.4	68.3	67.1	64.0	62.1	61.7	61.8	63.8	59.8	59.0	59.3	58.6
1999	60.1	57.3	57.0	57.6	^P 58.0	^P 58.7						
Manufacturing payrolls, 139 industries ¹												
Over 1-month span:												
1995	57.2	50.4	47.1	52.9	41.4	45.3	45.0	51.1	48.6	51.1	45.3	48.2
1996	42.4	55.4	46.8	41.0	55.8	51.4	47.1	56.5	48.9	55.0	50.7	54.0
1997	50.0	52.9	53.6	56.1	52.2	53.2	51.1	55.4	53.6	62.2	61.2	55.4
1998	58.6	51.8	50.4	50.4	40.6	46.8	40.3	45.3	42.1	36.3	39.9	45.0
1999	40.3	42.4	39.6	44.6	36.3	45.3	57.2	38.5	42.8	48.9	^P 54.3	^P 48.9
Over 3-month span:												
1995	55.4	51.4	44.2	41.7	43.5	37.4	42.1	43.9	48.2	46.8	44.6	41.4
1996	46.8	46.0	43.5	46.0	48.2	51.1	51.8	49.6	53.2	52.5	55.0	50.7
1997	51.8	51.4	57.6	56.8	54.3	51.8	53.6	55.4	59.7	68.3	65.8	64.4
1998	59.4	57.9	51.8	44.2	41.7	34.9	37.4	37.1	38.1	34.2	35.6	35.3
1999	37.4	31.7	37.1	30.2	33.8	43.9	43.2	44.6	38.5	^P 48.9	^P 50.7	
Over 6-month span:												
1995	55.4	45.7	43.2	38.1	41.7	42.8	41.0	42.1	43.5	43.2	44.2	45.0
1996	41.4	46.0	45.7	47.1	46.0	48.6	52.9	50.4	51.8	51.4	52.5	51.8
1997	54.7	54.0	51.4	54.3	52.5	52.2	55.4	61.2	61.5	64.7	66.2	65.1
1998	59.7	49.3	48.2	36.7	36.7	36.7	28.4	31.3	33.5	35.3	32.7	28.1
1999	33.1	29.1	28.1	36.0	30.9	34.5	36.3	^P 46.0	^P 45.0			
Over 12-month span:												
1995	46.0	44.2	46.0	47.8	41.0	41.7	38.5	38.8	36.3	38.5	39.9	44.6
1996	43.5	47.5	45.3	45.3	50.4	49.6	50.4	48.6	51.1	55.0	54.3	50.7
1997	54.7	52.5	54.0	54.0	55.4	56.8	57.2	57.9	58.3	56.5	55.4	57.2
1998	54.0	49.3	46.0	40.6	35.6	33.8	30.9	32.0	26.6	26.6	25.5	26.3
1999	32.7	25.9	28.4	29.5	^P 28.4	^P 30.9						

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 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1998) and all seasonally adjusted data (beginning January 1995) are subject to revision.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P
	Total ¹												
Alabama	1,916.8	1,923.0	1,927.3	1,929.8	1,929.4	1,932.0	1,933.7	1,933.8	1,934.6	1,933.2	1,936.0	1,931.6	1,934.6
Alaska	276.6	276.1	277.8	277.5	278.0	277.5	277.3	276.3	276.7	277.4	277.5	278.6	278.8
Arizona	2,113.4	2,117.7	2,114.4	2,117.3	2,125.0	2,133.6	2,138.5	2,153.5	2,162.2	2,165.9	2,165.5	2,176.3	2,182.2
Arkansas	1,132.0	1,131.4	1,131.4	1,131.9	1,133.2	1,133.2	1,133.9	1,134.4	1,140.0	1,143.4	1,141.3	1,144.3	1,146.6
California	13,748.8	13,782.9	13,827.9	13,833.8	13,852.4	13,881.7	13,938.9	13,967.1	13,977.1	14,017.9	14,039.6	14,067.9	14,113.5
Colorado	2,074.6	2,076.2	2,085.1	2,084.8	2,086.3	2,072.5	2,089.6	2,092.4	2,104.0	2,104.3	2,106.9	2,111.0	2,118.4
Connecticut	1,652.5	1,660.3	1,660.5	1,663.4	1,663.9	1,665.4	1,663.3	1,665.2	1,669.5	1,672.3	1,674.3	1,674.1	1,678.6
Delaware	403.9	406.1	408.1	408.8	408.7	409.4	411.4	411.4	410.4	412.6	412.5	415.2	415.9
Dist. of Columbia	616.4	615.4	615.1	615.3	614.8	615.1	615.6	616.4	612.7	620.3	621.6	621.7	620.5
Florida	6,773.0	6,791.4	6,809.6	6,825.1	6,839.6	6,867.3	6,888.7	6,916.7	6,938.2	6,970.5	6,996.9	7,014.1	7,033.5
Georgia	3,782.9	3,796.3	3,800.7	3,813.7	3,831.6	3,834.6	3,842.5	3,858.8	3,855.6	3,876.3	3,896.7	3,904.5	3,922.5
Hawaii	528.3	527.2	526.5	527.5	527.6	528.9	529.9	530.8	529.4	531.8	537.3	531.2	531.4
Idaho	527.1	532.8	536.8	537.2	536.5	536.4	533.2	534.1	531.9	532.8	529.2	532.6	531.7
Illinois	5,937.5	5,947.1	5,943.9	5,942.8	5,944.1	5,967.9	5,971.0	5,977.6	5,985.1	5,973.5	5,968.4	5,967.4	5,985.2
Indiana	2,931.5	2,940.7	2,940.5	2,954.5	2,956.8	2,960.9	2,945.9	2,955.7	2,948.5	2,954.9	2,952.0	2,958.8	2,957.9
Iowa	1,460.8	1,466.9	1,459.7	1,467.2	1,466.7	1,475.3	1,479.6	1,485.2	1,490.0	1,488.6	1,491.4	1,492.9	1,494.6
Kansas	1,328.4	1,330.6	1,333.8	1,334.7	1,334.5	1,341.8	1,340.3	1,343.9	1,343.9	1,340.0	1,340.9	1,346.9	1,349.5
Kentucky	1,763.3	1,765.6	1,772.8	1,773.8	1,775.7	1,783.0	1,788.7	1,790.1	1,788.8	1,796.5	1,793.6	1,797.2	1,799.8
Louisiana	1,913.3	1,918.3	1,910.8	1,909.7	1,908.1	1,914.3	1,914.9	1,919.6	1,916.4	1,918.2	1,921.3	1,920.9	1,926.5
Maine	576.1	577.1	578.6	579.9	580.8	581.4	581.6	583.8	583.5	584.4	586.0	587.9	589.8
Maryland	2,346.6	2,346.3	2,355.3	2,361.3	2,359.3	2,364.1	2,365.1	2,372.3	2,371.8	2,372.2	2,372.9	2,384.8	2,391.0
Massachusetts	3,191.6	3,196.5	3,193.9	3,203.9	3,209.9	3,217.5	3,217.7	3,220.4	3,225.8	3,229.0	3,232.8	3,234.6	3,235.8
Michigan	4,543.9	4,547.1	4,541.7	4,537.4	4,551.7	4,557.2	4,557.9	4,569.2	4,590.7	4,581.0	4,577.4	4,570.6	4,578.8
Minnesota	2,584.8	2,592.3	2,593.2	2,589.9	2,590.7	2,603.1	2,604.2	2,609.3	2,610.1	2,612.6	2,618.2	2,627.3	2,631.8
Mississippi	1,133.8	1,134.9	1,135.9	1,135.5	1,135.4	1,133.3	1,133.2	1,130.8	1,141.3	1,134.0	1,133.6	1,131.7	1,131.2
Missouri	2,708.5	2,717.6	2,711.8	2,706.4	2,704.0	2,704.0	2,704.5	2,707.8	2,711.4	2,705.3	2,693.1	2,707.6	2,711.2
Montana	376.4	376.8	378.2	379.4	378.2	380.2	379.7	378.0	381.8	382.1	381.3	384.1	384.5
Nebraska	882.6	886.7	880.5	879.6	875.9	876.9	876.7	879.9	885.9	881.5	881.6	879.2	880.3
Nevada	943.9	946.7	949.9	949.9	952.4	955.5	960.6	963.3	969.9	979.0	982.5	989.1	990.3
New Hampshire	591.2	591.5	593.7	595.7	597.5	597.8	596.5	598.3	598.1	600.2	600.4	596.8	602.2
New Jersey	3,821.1	3,833.2	3,832.7	3,840.3	3,846.7	3,854.8	3,861.1	3,864.7	3,871.6	3,871.7	3,877.2	3,882.0	3,888.3
New Mexico	725.3	725.8	726.4	726.7	729.1	729.3	729.7	730.0	729.9	732.0	731.8	733.1	735.6
New York	8,293.1	8,312.9	8,305.4	8,328.0	8,334.5	8,341.9	8,350.6	8,353.1	8,386.1	8,393.2	8,420.3	8,443.6	8,456.6
North Carolina	3,814.5	3,823.2	3,831.5	3,830.3	3,824.8	3,834.9	3,820.2	3,817.9	3,837.9	3,853.7	3,846.8	3,843.5	3,849.7
North Dakota	317.5	319.3	319.9	319.4	319.7	321.4	320.7	318.0	317.1	316.5	316.6	316.4	318.9
Ohio	5,498.2	5,501.3	5,489.4	5,499.2	5,498.4	5,510.5	5,510.5	5,521.1	5,531.2	5,533.7	5,521.6	5,522.4	5,527.8
Oklahoma	1,451.6	1,454.2	1,455.8	1,459.9	1,465.0	1,470.9	1,473.4	1,477.7	1,474.0	1,480.7	1,482.4	1,486.5	1,487.9
Oregon	1,571.2	1,573.6	1,578.7	1,580.1	1,584.2	1,587.0	1,583.6	1,582.3	1,589.9	1,585.1	1,581.2	1,592.2	1,596.0
Pennsylvania	5,515.5	5,526.4	5,518.8	5,532.1	5,528.1	5,541.1	5,533.4	5,533.0	5,537.3	5,529.4	5,543.2	5,546.0	5,541.3
Rhode Island	460.9	461.0	458.3	459.9	461.1	464.2	461.3	462.8	464.8	465.1	467.8	469.0	468.4
South Carolina	1,806.0	1,812.0	1,818.8	1,821.1	1,822.6	1,825.1	1,829.3	1,838.2	1,836.3	1,840.7	1,840.5	1,842.0	1,849.6
South Dakota	363.7	364.9	365.2	366.4	366.2	367.7	366.3	365.5	366.5	364.9	364.3	363.1	365.1
Tennessee	2,653.9	2,655.8	2,652.4	2,652.7	2,650.7	2,657.3	2,663.5	2,674.7	2,676.1	2,686.6	2,673.1	2,677.0	2,678.5
Texas	9,046.6	9,063.9	9,077.0	9,099.4	9,118.6	9,137.7	9,155.9	9,181.4	9,199.6	9,222.8	9,235.4	9,267.8	9,294.2
Utah	1,034.2	1,036.9	1,037.7	1,040.1	1,042.4	1,046.0	1,046.5	1,048.5	1,053.0	1,053.6	1,057.4	1,061.4	1,063.0
Vermont	287.1	288.6	288.9	288.8	290.1	291.1	291.2	291.2	291.2	291.9	290.5	292.7	294.0
Virginia	3,341.7	3,348.8	3,347.2	3,358.3	3,363.9	3,363.1	3,368.9	3,378.9	3,389.2	3,404.8	3,405.7	3,403.5	3,406.1
Washington	2,619.0	2,625.6	2,628.6	2,631.6	2,639.9	2,643.9	2,645.0	2,643.6	2,657.8	2,660.2	2,652.2	2,661.2	2,669.5
West Virginia	722.6	724.3	726.5	728.9	725.8	723.0	721.2	724.4	725.8	728.1	725.7	725.3	727.2
Wisconsin	2,725.1	2,731.5	2,727.9	2,730.9	2,734.6	2,740.7	2,745.4	2,738.6	2,742.3	2,748.0	2,743.6	2,748.6	2,750.0
Wyoming	227.4	228.0	229.1	230.3	229.6	231.8	231.9	229.4	231.3	230.9	229.5	231.1	231.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P
	Construction												
Alabama	104.6	106.2	107.1	106.9	106.6	106.7	106.4	107.2	108.1	107.4	108.1	107.4	107.9
Alaska	13.4	13.4	14.1	13.9	14.4	14.4	13.3	13.2	13.3	13.2	13.2	13.4	13.8
Arizona	148.9	150.1	153.5	154.0	154.9	154.9	155.1	156.5	158.0	158.2	158.2	157.1	158.5
Arkansas	48.4	48.4	49.3	49.5	49.4	49.4	49.7	49.6	49.7	50.1	50.7	50.8	51.1
California	625.2	627.1	641.7	632.1	631.5	636.6	650.1	656.2	661.7	662.4	667.4	672.1	678.6
Colorado	136.7	135.9	138.8	137.4	138.5	136.9	138.5	137.7	139.8	141.0	140.8	140.9	143.3
Connecticut	58.8	60.5	61.0	61.1	61.0	61.2	60.6	59.9	60.0	60.1	60.8	60.9	61.2
Delaware	22.3	22.9	23.9	24.8	24.3	24.3	23.9	23.9	24.1	24.2	24.2	24.0	24.0
District of Columbia	8.8	8.7	8.9	8.9	8.9	9.2	9.2	9.0	9.0	9.1	9.1	9.0	8.9
Florida	358.4	359.7	361.6	360.9	364.7	365.8	367.0	369.0	369.3	372.6	373.4	374.8	376.0
Georgia	189.0	192.1	192.6	191.0	191.6	192.8	193.2	196.4	195.2	192.2	191.4	195.5	194.0
Hawaii ²	20.1	20.2	20.7	20.7	20.6	20.6	20.7	20.1	20.2	19.8	20.1	19.9	20.1
Idaho	33.8	34.1	35.3	34.1	34.1	33.9	33.6	33.3	33.6	33.5	33.6	34.8	34.1
Illinois	240.7	241.8	243.1	243.2	241.2	247.5	246.6	247.3	247.1	245.5	248.2	249.0	249.7
Indiana	145.3	145.9	144.4	145.5	144.1	145.0	144.3	144.9	144.0	143.2	142.7	143.6	144.6
Iowa	62.1	62.9	63.4	64.2	62.5	62.9	64.1	64.5	64.8	65.0	65.7	66.5	65.9
Kansas	62.5	63.8	64.8	65.1	64.1	66.2	66.1	67.1	67.3	67.3	67.7	67.9	68.1
Kentucky	84.9	85.3	86.2	87.1	84.2	87.1	87.4	88.0	87.1	87.9	87.0	88.1	87.7
Louisiana	130.7	130.6	131.5	131.7	132.7	133.2	133.2	133.5	131.7	132.2	132.6	131.6	132.9
Maine	25.0	25.1	26.2	26.6	26.7	27.4	27.3	26.9	26.9	26.8	26.6	26.4	26.8
Maryland	143.7	143.8	144.9	146.2	144.9	144.5	144.3	144.6	145.2	145.1	144.5	144.4	144.6
Massachusetts	109.2	110.6	113.1	114.7	116.1	114.9	113.9	114.3	114.2	114.4	115.5	115.4	114.9
Michigan	188.3	189.6	184.1	190.4	190.6	192.3	192.2	193.4	195.0	192.5	190.9	191.1	194.0
Minnesota	104.5	106.5	107.7	109.0	109.2	111.5	110.3	108.5	109.3	109.6	111.6	112.8	113.8
Mississippi	56.7	56.8	58.1	58.5	58.2	57.3	55.9	55.7	55.9	55.5	55.6	55.3	56.9
Missouri	132.0	134.7	130.0	132.9	131.7	133.7	134.1	135.5	138.5	135.7	135.5	136.1	134.5
Montana	18.6	18.9	18.9	19.3	19.4	19.6	19.8	19.6	19.7	19.4	19.6	19.8	20.1
Nebraska	41.0	42.7	41.8	42.1	40.7	40.9	40.8	41.8	41.7	41.8	41.7	41.8	41.7
Nevada	86.6	87.0	88.6	87.1	86.6	86.8	86.1	86.7	88.4	88.7	88.9	89.5	90.3
New Hampshire	23.7	24.0	23.6	24.2	24.2	24.5	23.8	24.0	23.8	23.7	23.8	24.1	24.1
New Jersey	135.6	136.7	137.4	138.2	137.9	137.1	136.8	136.5	136.9	136.7	137.5	139.0	138.8
New Mexico	43.6	43.9	44.2	44.4	43.5	43.5	43.3	43.1	43.6	43.6	43.9	43.8	43.7
New York	287.9	290.1	292.0	296.8	296.5	297.3	298.2	299.8	301.4	302.4	304.0	304.5	307.8
North Carolina	218.4	219.3	220.5	220.9	218.7	219.7	217.4	216.9	215.1	215.8	216.5	215.7	216.0
North Dakota	14.9	15.3	14.5	15.6	15.2	15.1	15.4	15.4	15.6	15.3	15.0	15.2	16.6
Ohio	226.8	227.6	228.7	231.5	227.4	228.4	229.1	230.0	231.9	230.7	231.5	232.5	232.4
Oklahoma	55.1	55.5	55.6	54.8	55.3	55.4	55.5	56.3	56.0	55.6	56.1	56.3	56.5
Oregon	83.3	84.3	85.6	85.1	85.5	85.7	85.3	84.1	83.4	83.3	82.8	84.0	84.3
Pennsylvania	222.3	224.5	222.3	230.7	228.8	230.2	228.3	226.3	225.9	224.7	224.5	226.3	228.9
Rhode Island	15.6	15.8	15.2	15.3	15.8	16.4	15.8	16.0	16.3	16.3	16.3	16.5	16.8
South Carolina	108.8	109.6	109.8	110.2	111.0	111.6	111.6	112.3	112.0	112.9	113.7	114.5	114.9
South Dakota	16.2	16.4	16.4	16.6	16.7	16.7	16.8	16.6	16.4	16.0	16.1	16.0	17.0
Tennessee	126.0	126.8	128.8	128.0	126.2	128.1	128.0	128.6	131.1	132.2	133.1	134.1	134.3
Texas	508.2	508.8	512.5	518.0	518.7	523.1	523.5	523.9	528.7	530.0	531.0	532.8	534.8
Utah	70.7	71.5	71.6	71.2	70.9	71.6	72.3	72.9	73.4	73.2	73.4	75.3	76.3
Vermont	13.9	14.4	15.1	15.0	15.1	15.7	14.9	14.5	14.1	14.1	14.1	14.4	14.4
Virginia	192.4	192.9	193.0	194.7	194.9	196.8	196.4	196.6	196.6	197.8	200.0	200.9	202.3
Washington	144.0	145.0	146.3	146.6	147.3	147.8	148.4	149.4	151.7	151.2	151.2	152.9	153.1
West Virginia	35.0	35.7	35.5	36.9	34.6	34.5	33.9	34.2	34.5	34.7	33.7	33.7	34.5
Wisconsin	114.9	116.7	116.2	117.7	118.5	121.3	118.3	116.3	116.2	116.8	117.5	116.8	118.0
Wyoming	15.7	15.9	16.6	16.7	16.5	17.0	17.0	16.3	16.6	16.4	16.5	16.7	16.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P
Manufacturing													
Alabama	374.4	374.9	375.5	373.1	372.6	370.9	371.6	369.7	370.7	366.8	366.1	366.3	366.6
Alaska	15.1	13.4	15.7	15.4	14.3	13.2	14.1	13.9	14.4	15.3	15.8	15.1	14.3
Arizona	218.2	218.6	217.4	217.5	218.0	218.4	218.4	219.0	218.1	218.3	218.3	218.6	220.1
Arkansas	253.8	254.1	254.5	254.2	253.7	252.8	253.0	251.8	252.4	251.3	251.5	251.5	251.6
California	1,960.6	1,959.5	1,959.0	1,952.9	1,948.9	1,950.0	1,950.9	1,950.4	1,945.0	1,947.7	1,953.6	1,947.5	1,949.7
Colorado	206.0	205.6	206.0	206.3	206.5	206.2	206.4	206.0	205.3	205.0	204.7	204.2	204.8
Connecticut	276.4	275.6	276.3	276.0	276.7	276.3	275.8	274.1	273.3	273.1	272.6	271.1	271.4
Delaware	60.5	60.6	59.8	59.7	59.7	59.1	59.8	59.9	57.4	59.7	59.5	59.1	59.4
District of Columbia	12.5	12.6	12.1	12.2	12.1	12.1	12.1	12.0	12.1	12.2	12.1	12.3	12.2
Florida	498.0	498.5	497.5	498.0	496.9	498.6	498.1	497.8	497.5	497.7	496.5	496.4	497.3
Georgia	595.7	597.0	596.3	596.2	596.0	594.8	593.1	593.8	587.9	592.8	591.1	589.8	589.8
Hawaii	16.2	16.2	16.2	16.2	16.1	16.2	16.2	16.1	16.1	16.1	16.2	16.4	16.4
Idaho	76.2	76.1	75.9	76.4	76.3	76.7	75.7	75.9	76.5	77.7	76.9	76.7	76.2
Illinois	973.2	973.1	973.1	974.4	972.0	972.0	969.4	971.6	968.4	970.9	970.4	966.9	969.0
Indiana	684.6	684.9	686.5	686.9	685.4	686.9	683.5	685.0	689.5	688.5	687.1	687.4	686.6
Iowa	263.4	263.6	262.4	265.0	264.8	265.4	266.6	267.6	268.0	267.0	268.2	265.2	265.7
Kansas	214.2	214.4	214.8	214.9	213.8	213.3	213.1	213.2	212.6	211.2	211.1	211.1	210.6
Kentucky	321.9	321.4	321.2	320.3	320.2	319.2	317.6	315.9	319.4	318.5	319.9	318.8	321.0
Louisiana	191.9	192.0	191.5	191.5	191.1	190.6	190.0	191.1	191.2	190.5	190.6	190.3	190.1
Maine	85.9	85.4	86.6	86.4	85.7	84.6	84.7	84.9	84.7	84.7	85.3	85.1	85.7
Maryland	176.6	176.7	176.5	177.0	177.0	177.5	176.8	176.8	179.1	177.3	177.9	177.8	177.8
Massachusetts	441.5	440.2	438.4	436.4	436.0	435.6	435.0	434.7	435.2	435.8	436.8	435.6	435.4
Michigan	966.9	966.7	962.8	957.9	963.4	961.7	963.2	963.9	971.9	965.2	963.0	957.3	953.5
Minnesota	445.1	445.0	443.9	443.7	441.0	441.9	442.7	441.7	440.0	443.0	442.8	444.9	445.0
Mississippi	244.3	244.9	244.3	241.4	240.6	240.1	239.3	240.0	241.0	240.6	240.2	238.7	237.9
Missouri	419.6	420.0	420.6	417.0	416.8	414.7	413.6	413.7	412.6	409.8	406.4	408.7	408.9
Montana	25.0	25.0	24.8	24.9	24.8	24.6	24.6	24.4	24.5	24.6	24.4	24.2	24.6
Nebraska	117.8	118.0	118.3	117.9	117.7	117.6	116.9	116.8	117.8	117.4	117.5	117.3	117.4
Nevada	42.5	42.4	42.1	41.9	42.3	42.3	42.6	43.0	43.0	43.2	43.4	43.5	43.7
New Hampshire	107.3	107.3	107.1	106.8	106.8	106.2	105.8	105.9	106.2	106.1	106.2	106.0	105.9
New Jersey	473.7	473.6	474.4	470.7	469.0	469.1	467.5	466.3	466.4	464.8	463.7	462.6	463.1
New Mexico	44.1	44.1	44.3	44.3	44.1	44.1	44.1	43.6	43.4	43.0	42.8	41.8	42.1
New York	914.6	915.0	915.0	912.5	909.3	906.6	905.2	905.8	904.1	904.3	903.1	902.0	902.1
North Carolina	820.4	818.4	817.7	815.7	811.6	811.0	809.3	808.0	806.6	804.1	801.7	800.6	799.5
North Dakota	24.2	24.3	23.9	23.7	23.7	23.8	24.0	23.9	23.6	23.6	23.3	23.3	23.6
Ohio	1,093.8	1,091.8	1,093.6	1,088.9	1,086.1	1,086.8	1,085.0	1,086.6	1,086.3	1,089.7	1,084.1	1,077.6	1,081.9
Oklahoma	186.3	186.1	186.7	186.2	186.5	186.2	186.2	186.9	186.3	186.9	187.1	186.6	187.0
Oregon	241.7	241.9	242.8	242.2	242.0	241.7	240.9	238.9	238.5	237.4	237.4	239.4	242.1
Pennsylvania	939.7	938.1	935.3	935.2	934.2	933.5	930.6	931.0	935.5	930.4	929.9	929.5	928.7
Rhode Island	78.1	77.9	77.9	78.4	78.3	78.6	77.5	77.8	77.9	78.2	77.3	77.2	77.9
South Carolina	363.1	363.2	363.7	362.7	361.9	362.0	361.4	361.4	361.5	359.7	358.7	358.2	359.0
South Dakota	49.8	50.0	50.2	50.1	49.9	49.7	49.3	48.6	48.5	48.3	49.3	49.7	49.9
Tennessee	510.0	509.7	509.8	508.1	505.8	505.5	507.1	505.3	508.1	508.1	507.1	507.3	505.8
Texas	1,106.5	1,106.7	1,104.5	1,102.1	1,100.3	1,099.4	1,098.5	1,098.9	1,103.6	1,101.1	1,098.6	1,099.0	1,099.7
Utah	134.1	134.1	133.6	133.6	134.2	134.1	133.6	133.8	134.3	133.3	132.8	132.4	133.0
Vermont	48.5	48.8	48.5	48.3	48.5	48.7	48.9	48.7	49.1	49.1	48.9	49.0	49.3
Virginia	402.5	401.9	401.8	402.3	401.0	392.1	392.3	395.2	394.4	401.1	399.7	399.0	401.0
Washington	375.4	374.6	373.4	371.8	371.9	369.5	368.2	366.0	364.1	362.4	360.2	358.7	358.9
West Virginia	82.2	82.1	80.5	80.9	81.8	81.7	82.0	81.5	82.6	82.5	82.8	82.8	82.6
Wisconsin	616.1	615.8	616.5	615.0	614.7	613.1	613.2	610.1	610.6	610.9	610.9	610.8	611.3
Wyoming	10.8	10.9	10.9	11.1	10.8	11.0	11.4	11.3	11.3	11.4	11.1	11.2	11.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P
Transportation and public utilities													
Alabama	92.6	92.7	93.6	93.9	93.4	93.9	93.8	93.9	94.2	94.1	94.1	93.5	93.7
Alaska	25.8	25.9	25.8	25.8	25.8	25.8	25.5	26.2	26.2	27.1	26.7	26.7	26.9
Arizona	103.2	104.0	105.0	104.6	105.3	105.8	106.0	106.0	105.9	106.4	107.2	107.6	107.4
Arkansas	69.1	69.2	68.4	68.6	68.5	68.7	68.9	69.3	69.6	69.8	69.8	70.2	70.7
California	699.2	701.8	705.6	706.9	707.5	710.2	711.8	715.0	717.5	718.3	717.8	720.5	724.1
Colorado	132.0	132.2	132.1	132.5	133.0	133.1	133.2	132.8	132.4	132.3	132.9	134.3	133.9
Connecticut	76.2	76.2	76.2	76.6	76.5	75.9	75.6	74.9	76.1	75.8	75.5	76.1	77.0
Delaware	16.8	16.9	17.3	17.3	17.3	17.4	17.7	17.8	17.5	17.9	17.7	17.7	18.0
District of Columbia	15.8	15.8	16.1	16.0	15.8	15.8	15.8	15.5	15.5	15.5	15.5	15.6	15.7
Florida	343.0	344.6	347.4	347.3	347.2	348.9	350.8	351.0	352.9	355.2	355.5	357.6	358.8
Georgia	246.2	247.2	247.7	249.8	251.4	252.9	254.5	255.9	257.0	258.6	260.8	261.4	261.6
Hawaii	40.4	40.1	40.2	40.2	40.1	40.4	40.4	40.4	40.3	40.5	40.3	40.3	40.3
Idaho	25.8	25.9	26.4	26.3	26.4	26.3	26.2	26.3	26.3	26.2	26.1	26.3	26.0
Illinois	350.4	352.0	350.8	350.4	352.0	351.8	351.9	352.5	352.9	351.7	351.7	351.5	352.0
Indiana	145.5	145.8	146.4	146.3	146.4	145.9	144.6	144.9	145.0	145.3	145.4	145.2	144.4
Iowa	70.5	70.8	70.3	70.6	71.0	71.7	71.9	72.4	72.4	72.7	72.9	73.0	72.9
Kansas	76.5	77.2	76.9	77.0	76.7	76.6	76.5	76.3	76.3	76.4	77.0	77.2	77.7
Kentucky	102.2	102.8	103.3	103.9	104.2	104.9	104.8	105.0	104.9	105.3	106.1	106.1	105.8
Louisiana	115.6	116.3	115.2	115.6	115.0	115.2	115.7	115.8	115.8	115.9	116.5	116.2	116.3
Maine	23.9	24.0	24.2	24.2	24.2	24.1	24.4	24.3	24.3	24.4	24.4	24.4	24.4
Maryland	109.9	110.0	110.8	110.6	111.3	113.2	113.1	112.4	114.6	114.5	114.7	113.6	113.7
Massachusetts	135.4	135.4	137.4	137.7	137.2	138.1	137.7	138.2	137.9	138.3	139.7	137.9	137.3
Michigan	178.5	178.2	180.4	179.1	180.1	180.4	178.8	179.7	179.6	180.1	180.3	180.1	178.8
Minnesota	129.6	130.3	130.5	130.4	130.5	131.6	131.5	131.0	131.1	130.9	129.0	129.1	128.4
Mississippi	53.0	53.5	54.1	54.3	54.4	54.3	54.0	54.7	54.4	54.6	55.3	54.6	54.5
Missouri	166.1	166.9	167.3	166.9	165.5	165.9	165.7	165.0	164.2	165.1	163.2	164.8	165.6
Montana	21.7	21.8	22.0	22.0	22.1	22.0	22.0	21.9	22.0	22.0	21.9	22.3	22.0
Nebraska	57.8	58.2	58.1	58.7	58.6	58.8	58.8	59.3	59.5	59.3	59.4	59.3	59.5
Nevada	48.2	48.3	48.7	48.7	48.7	48.7	49.2	49.6	50.0	50.5	51.1	51.1	51.1
New Hampshire	21.1	21.1	21.3	21.0	20.9	21.2	21.2	21.4	21.4	21.7	21.5	21.9	21.7
New Jersey	261.5	261.6	262.6	263.4	263.4	263.6	262.8	263.4	262.8	263.8	263.1	263.0	264.5
New Mexico	33.9	33.9	34.1	34.0	34.3	34.0	33.9	34.1	34.0	34.4	34.1	34.6	34.5
New York	412.9	412.7	415.5	415.8	415.0	417.0	416.3	416.1	416.3	416.6	417.3	418.3	419.0
North Carolina	173.7	173.3	175.2	174.9	174.9	175.4	174.7	174.6	176.2	175.6	177.2	176.2	175.8
North Dakota	17.6	17.7	17.8	17.7	17.7	18.0	18.0	17.9	17.8	17.7	17.7	17.6	17.8
Ohio	243.0	242.7	242.7	242.4	242.7	243.8	243.5	243.7	243.2	244.3	244.9	245.6	244.7
Oklahoma	83.5	83.5	84.0	84.5	83.9	83.9	83.9	84.3	84.2	84.5	84.7	85.1	84.9
Oregon	76.8	77.0	77.6	77.9	78.4	78.3	78.9	79.6	79.9	80.7	80.9	81.1	81.1
Pennsylvania	287.5	287.3	288.2	288.8	288.8	289.7	288.9	288.6	288.5	288.1	288.0	286.6	287.5
Rhode Island	16.1	16.0	16.2	16.0	16.2	16.3	16.1	16.1	15.8	15.9	16.0	16.0	16.0
South Carolina	77.6	78.0	79.0	79.6	79.1	79.6	80.0	80.1	79.9	79.9	80.4	80.3	80.5
South Dakota	16.8	16.9	16.6	16.8	17.0	16.9	16.9	16.6	16.5	16.5	16.8	16.7	16.6
Tennessee	158.2	158.2	159.9	159.7	159.9	160.4	161.6	162.2	162.8	162.3	162.4	162.4	162.2
Texas	550.5	551.6	556.2	557.4	557.5	559.3	560.3	561.4	562.5	564.5	566.0	568.1	569.2
Utah	59.3	59.5	59.5	59.8	59.8	59.8	60.2	59.9	59.8	60.0	59.8	60.3	60.0
Vermont	12.6	12.5	12.5	12.6	12.5	12.5	12.3	12.4	12.3	12.1	12.5	12.6	12.4
Virginia	174.9	175.6	176.2	176.2	176.3	178.2	179.1	180.7	181.9	183.4	183.4	184.5	185.3
Washington	138.4	138.8	138.6	139.4	139.3	139.7	139.6	139.5	141.2	141.3	141.9	141.0	141.7
West Virginia	39.3	39.2	39.4	39.6	39.5	39.0	39.1	39.3	39.3	39.5	39.4	39.3	39.3
Wisconsin	128.4	128.9	128.8	128.4	128.6	128.6	127.6	127.5	128.7	128.2	127.9	128.9	128.8
Wyoming	13.9	14.0	13.8	14.0	14.2	14.0	14.0	14.1	14.3	14.3	14.2	14.3	14.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
	Trade												
Alabama	443.3	444.9	446.4	448.5	450.7	450.9	451.9	452.8	453.1	452.0	450.8	452.1	454.5
Alaska	56.6	57.3	56.9	57.2	57.7	57.9	57.6	58.0	57.5	57.7	57.5	57.7	57.5
Arizona	504.5	506.1	509.7	510.6	513.5	514.2	514.9	516.5	517.4	519.5	520.1	521.8	522.3
Arkansas	258.2	258.3	258.4	258.0	259.9	259.4	259.2	259.9	260.9	260.7	260.8	261.3	262.1
California	3,148.8	3,158.5	3,154.9	3,153.5	3,157.4	3,154.4	3,158.4	3,166.0	3,168.0	3,181.7	3,181.1	3,188.5	3,205.1
Colorado	500.1	500.8	503.4	504.3	504.5	507.2	507.2	510.1	512.4	512.2	513.5	512.7	513.0
Connecticut	356.9	358.9	357.8	359.5	359.1	358.4	358.3	358.7	358.3	359.6	358.4	358.2	360.4
Delaware	88.0	88.4	88.6	88.8	89.0	89.3	89.6	89.9	90.2	90.3	90.8	90.9	91.1
District of Columbia	48.5	48.5	47.4	48.0	47.8	48.3	48.6	48.8	49.3	49.0	50.0	48.7	48.7
Florida	1,700.5	1,702.9	1,709.0	1,707.1	1,714.4	1,719.7	1,720.5	1,729.0	1,732.8	1,737.9	1,740.5	1,745.2	1,747.7
Georgia	936.3	936.4	936.6	940.1	947.8	948.1	949.1	954.3	955.1	961.3	962.6	970.4	975.5
Hawaii	131.1	130.7	130.7	130.6	130.7	130.7	130.7	130.8	130.0	130.6	131.6	131.3	131.1
Idaho	134.2	134.3	135.4	135.8	135.1	134.9	133.9	133.9	133.5	133.5	133.8	133.2	134.2
Illinois	1,345.4	1,347.4	1,352.9	1,354.3	1,355.4	1,358.2	1,355.2	1,353.1	1,354.1	1,358.0	1,351.6	1,351.5	1,356.0
Indiana	686.2	688.7	698.9	699.5	699.9	696.3	691.5	693.2	693.5	692.2	690.5	692.1	695.4
Iowa	357.0	358.2	358.7	360.8	360.5	362.7	362.8	362.4	363.1	363.8	362.6	364.2	364.7
Kansas	321.0	322.3	322.9	323.9	325.2	325.8	326.6	327.8	328.7	328.7	328.7	329.9	331.3
Kentucky	418.8	419.8	421.2	420.7	424.6	425.9	427.7	427.9	428.0	428.9	427.5	428.0	428.1
Louisiana	447.5	448.8	446.2	444.6	444.7	446.8	448.4	448.3	448.1	448.6	449.1	448.0	447.4
Maine	146.2	146.1	145.2	144.9	145.8	145.5	145.9	146.2	145.3	146.1	146.1	148.2	149.8
Maryland	539.3	537.4	540.7	540.5	541.1	542.5	544.0	544.6	544.9	545.2	545.7	544.8	544.1
Massachusetts	726.7	727.2	722.1	728.0	730.3	733.4	733.0	733.5	739.1	737.4	737.0	735.5	735.3
Michigan	1,075.0	1,076.1	1,079.3	1,078.4	1,082.8	1,086.7	1,083.1	1,083.3	1,089.3	1,087.4	1,086.9	1,087.0	1,088.3
Minnesota	620.1	621.3	622.7	620.5	620.5	621.9	623.8	628.7	629.9	629.5	630.2	633.0	636.1
Mississippi	244.0	243.6	244.0	247.3	248.3	246.8	247.0	244.8	244.0	243.5	243.3	243.4	241.2
Missouri	635.7	638.3	637.2	640.2	640.1	639.8	638.6	637.6	639.6	639.6	637.6	640.1	640.5
Montana	100.6	100.8	101.2	101.4	101.5	101.6	101.8	102.2	101.8	102.4	102.6	102.2	102.4
Nebraska	214.9	214.4	212.7	211.8	211.6	212.5	213.2	212.1	214.1	213.1	213.5	211.8	212.3
Nevada	192.3	193.6	194.5	194.7	195.6	196.9	197.4	199.0	200.1	201.5	203.1	204.1	204.8
New Hampshire	153.9	154.9	154.2	155.0	155.8	154.2	154.6	154.7	154.8	155.9	156.3	156.1	157.6
New Jersey	890.5	895.5	896.2	898.2	900.0	901.9	903.6	904.8	907.8	909.5	910.5	911.2	913.4
New Mexico	172.0	172.2	171.5	172.4	173.0	172.9	172.6	172.9	173.3	173.5	173.5	173.4	174.1
New York	1,675.3	1,678.4	1,675.8	1,676.7	1,678.2	1,673.7	1,678.1	1,680.0	1,685.3	1,686.6	1,689.3	1,690.1	1,695.5
North Carolina	863.6	867.2	873.0	873.9	875.5	878.6	873.5	875.4	875.0	872.5	875.6	874.2	876.3
North Dakota	80.6	80.7	81.3	81.2	81.5	82.1	81.3	81.2	81.3	80.9	81.1	80.6	80.6
Ohio	1,332.1	1,334.8	1,332.0	1,333.9	1,336.7	1,334.8	1,335.2	1,337.1	1,336.8	1,336.7	1,332.5	1,335.1	1,339.7
Oklahoma	333.9	334.8	334.2	335.7	337.2	338.6	339.2	339.6	337.9	339.1	339.4	341.7	342.4
Oregon	386.5	387.7	386.6	386.5	387.8	389.9	387.7	388.9	387.8	385.8	387.7	389.9	390.8
Pennsylvania	1,235.8	1,238.7	1,235.3	1,239.3	1,242.9	1,241.2	1,242.5	1,244.4	1,242.2	1,241.9	1,242.2	1,239.4	1,236.6
Rhode Island	99.9	100.2	99.8	99.8	99.6	100.5	100.6	101.0	101.1	101.0	101.8	102.7	102.5
South Carolina	437.4	440.2	438.0	440.4	440.0	441.0	442.5	443.2	444.6	445.8	447.1	449.4	450.7
South Dakota	89.3	89.8	91.1	90.6	89.8	91.1	90.9	90.5	89.9	90.0	89.6	89.9	90.2
Tennessee	629.4	629.8	627.0	627.7	628.7	633.7	637.4	637.3	640.1	638.8	640.7	640.9	640.7
Texas	2,124.7	2,128.4	2,126.3	2,134.2	2,142.1	2,145.0	2,150.1	2,153.9	2,151.4	2,156.2	2,158.3	2,166.0	2,173.5
Utah	242.6	242.8	245.4	244.9	246.6	247.0	247.2	247.7	248.7	248.6	248.1	249.2	248.2
Vermont	66.0	66.0	64.9	65.5	65.7	65.5	65.0	66.2	65.9	65.9	66.2	66.5	67.0
Virginia	739.1	739.9	739.9	742.4	744.8	743.8	745.1	744.2	743.0	744.8	744.3	744.4	740.7
Washington	633.4	635.7	635.5	636.3	639.5	641.3	641.6	641.6	643.5	645.0	644.9	648.7	651.7
West Virginia	164.5	164.4	165.6	166.8	166.9	166.7	166.1	167.1	167.0	165.8	165.0	164.8	164.6
Wisconsin	609.6	612.1	609.6	611.5	613.2	614.4	615.6	614.7	613.5	614.6	615.1	615.7	615.3
Wyoming	52.4	52.6	52.6	53.3	52.8	53.4	53.6	53.1	53.2	53.0	52.9	53.4	53.3

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P
	Finance, insurance, and real estate												
Alabama	87.9	88.1	88.4	88.5	88.5	88.8	88.9	89.1	89.4	89.4	89.9	90.0	90.8
Alaska	12.6	12.6	12.7	12.7	12.8	12.7	12.7	12.8	12.9	12.9	12.7	12.6	12.8
Arizona	142.6	143.4	142.8	143.5	144.1	144.3	144.8	145.0	146.2	147.0	147.4	148.6	149.8
Arkansas	45.0	45.0	45.1	45.2	45.6	45.5	45.4	45.4	45.4	45.8	46.0	46.0	46.1
California	807.6	808.2	809.1	808.7	808.0	811.2	811.5	812.7	812.6	814.9	812.8	815.0	814.6
Colorado	137.1	137.8	138.3	138.3	138.4	138.6	138.9	138.6	138.7	138.3	138.5	138.9	138.9
Connecticut	137.8	138.5	138.8	138.8	139.1	138.7	139.3	139.4	139.2	139.6	140.5	140.7	140.7
Delaware	49.2	49.6	50.1	50.0	50.2	49.9	50.1	50.6	50.6	50.8	51.0	51.3	51.6
District of Columbia	29.0	29.1	29.0	29.0	28.9	28.9	28.8	29.0	29.0	28.9	29.0	28.9	28.9
Florida	437.7	438.9	439.2	439.0	441.8	442.9	444.5	446.4	446.3	448.5	449.9	450.2	451.6
Georgia	203.0	203.9	204.9	206.0	206.7	207.2	207.7	209.3	209.9	210.5	211.0	211.7	212.6
Hawaii	35.3	35.2	35.3	35.2	34.9	35.2	35.0	35.1	34.9	34.9	35.0	34.9	34.4
Idaho	23.2	23.3	23.7	23.5	23.8	23.9	23.8	23.8	23.7	23.7	23.6	23.7	23.7
Illinois	406.6	408.0	408.8	407.9	408.6	409.7	410.1	411.6	412.6	409.9	408.9	408.2	408.0
Indiana	143.6	144.0	146.2	146.5	146.9	146.6	146.3	146.7	146.7	146.6	147.0	147.4	147.5
Iowa	84.2	84.1	83.5	83.9	83.9	84.3	84.3	85.0	85.1	85.3	85.5	85.8	85.9
Kansas	62.6	62.7	62.9	63.0	63.1	63.2	63.3	62.9	62.9	62.8	63.3	63.8	63.7
Kentucky	70.4	70.5	70.9	71.0	70.9	70.9	71.3	71.5	71.9	71.8	71.8	71.4	71.0
Louisiana	86.8	87.0	86.5	86.6	86.5	86.8	87.0	87.5	87.5	87.6	87.4	87.2	87.4
Maine	30.2	30.3	30.7	30.8	30.7	31.0	31.1	31.1	30.9	30.6	30.7	31.0	30.8
Maryland	134.5	134.9	136.3	137.1	137.1	137.4	137.9	137.2	137.4	137.4	137.7	137.6	138.3
Massachusetts	219.2	220.0	219.3	220.2	220.6	221.5	221.6	221.6	222.1	222.1	222.3	222.4	223.2
Michigan	209.5	209.1	210.0	209.0	209.9	209.2	209.1	209.4	209.9	209.7	210.3	210.3	210.7
Minnesota	159.5	160.0	159.3	159.3	159.5	159.4	159.4	159.2	159.7	159.7	160.0	160.1	160.3
Mississippi	42.3	42.2	42.7	42.6	42.1	42.2	42.3	42.0	42.2	42.3	42.4	42.9	42.5
Missouri	164.4	164.9	165.1	165.4	165.1	165.2	165.7	165.9	166.3	166.3	165.4	166.1	165.4
Montana	17.3	17.3	17.4	17.4	17.3	17.5	17.5	17.5	17.5	17.7	17.4	17.7	17.9
Nebraska	58.5	58.6	58.7	58.8	58.6	58.4	58.9	59.0	59.1	59.3	59.0	59.0	59.0
Nevada	44.7	44.8	44.9	45.1	45.0	45.1	45.3	45.4	45.6	45.8	45.8	45.8	45.8
New Hampshire	31.5	31.5	31.4	31.5	31.5	31.6	31.5	31.8	31.5	31.9	31.8	31.9	31.8
New Jersey	249.8	250.7	253.1	254.1	254.9	256.6	256.5	256.6	256.9	257.4	257.3	257.9	258.1
New Mexico	32.1	32.2	32.1	32.3	32.1	32.3	32.5	32.6	32.6	32.6	32.7	32.6	32.7
New York	739.7	742.0	740.8	740.1	739.2	739.8	740.2	740.6	743.1	744.0	743.7	745.9	747.2
North Carolina	182.6	183.1	182.8	183.4	183.5	184.5	184.0	183.4	183.1	183.1	184.2	184.5	185.5
North Dakota	15.9	16.0	16.1	15.9	15.8	15.9	16.0	16.0	15.9	15.9	16.0	16.0	16.0
Ohio	301.7	301.9	303.0	302.9	303.2	302.8	303.5	304.3	305.2	305.4	305.6	306.5	306.6
Oklahoma	74.6	74.8	75.4	75.5	75.3	75.4	75.8	75.9	76.2	76.4	76.7	76.8	77.1
Oregon	95.4	95.5	96.1	96.6	96.9	97.1	96.9	96.9	97.1	97.1	97.1	97.1	96.8
Pennsylvania	319.7	320.0	320.0	321.1	321.4	322.3	323.7	324.4	325.0	325.4	325.3	325.2	324.9
Rhode Island	29.4	29.3	29.0	29.1	29.5	29.5	29.3	29.5	29.5	29.8	29.6	30.0	30.0
South Carolina	81.2	81.7	82.1	82.3	82.6	83.0	83.5	83.8	83.7	83.9	84.1	84.3	84.4
South Dakota	23.2	23.3	23.3	23.3	23.3	23.4	23.3	23.6	23.7	23.6	23.6	23.6	23.6
Tennessee	127.3	127.1	127.4	127.4	126.3	126.7	127.1	127.3	127.5	127.6	127.3	127.8	127.6
Texas	504.6	507.1	509.3	510.2	510.6	512.2	512.2	513.4	516.1	518.4	519.7	523.8	524.6
Utah	56.5	56.3	56.4	56.8	57.0	57.2	57.7	58.2	58.7	59.4	58.7	59.5	59.7
Vermont	12.5	12.6	12.7	12.7	12.7	12.9	12.9	13.0	13.2	13.1	13.0	13.2	13.2
Virginia	177.6	177.1	177.7	179.0	179.2	179.1	179.5	180.1	180.5	181.4	181.3	180.4	181.0
Washington	137.5	138.2	139.3	139.0	139.6	140.3	141.5	140.9	140.6	141.4	141.8	142.1	142.6
West Virginia	28.9	29.0	29.7	29.7	29.5	29.2	29.2	29.5	29.4	29.5	29.5	29.5	29.3
Wisconsin	145.4	145.8	146.3	146.6	146.9	147.0	147.7	147.7	148.4	148.8	149.5	149.9	150.2
Wyoming	8.7	8.6	8.7	8.7	8.7	8.8	8.9	8.7	8.4	8.4	8.5	8.5	8.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P
Services													
Alabama	454.7	456.2	457.0	458.5	456.8	460.1	461.6	463.2	461.8	461.7	460.8	459.4	459.4
Alaska	69.3	69.4	69.5	69.2	69.2	70.1	69.6	70.1	70.3	70.0	70.2	70.8	71.3
Arizona	640.7	643.4	632.0	633.3	636.2	640.8	644.8	648.1	651.3	654.9	654.3	656.0	659.0
Arkansas	266.4	267.0	266.3	267.1	266.8	267.9	268.4	268.9	271.7	271.4	271.4	272.5	273.0
California	4,289.9	4,304.2	4,334.1	4,352.0	4,366.3	4,379.9	4,411.3	4,417.6	4,426.5	4,439.1	4,447.0	4,464.5	4,476.4
Colorado	625.5	626.9	629.1	627.5	626.5	611.4	626.8	629.9	636.4	635.9	634.7	639.3	642.1
Connecticut	517.0	520.1	520.0	521.4	520.5	523.8	523.1	526.3	528.6	529.4	529.7	530.0	531.8
Delaware	112.9	113.2	113.4	113.4	113.0	114.1	115.0	115.0	115.2	115.1	115.4	116.3	115.9
District of Columbia	275.8	275.6	275.6	275.4	275.8	275.4	275.6	277.3	278.7	278.9	279.0	279.8	279.4
Florida	2,464.6	2,475.3	2,484.8	2,498.7	2,499.1	2,514.3	2,527.5	2,542.7	2,556.4	2,575.3	2,598.8	2,603.2	2,618.4
Georgia	1,017.6	1,022.1	1,024.4	1,031.1	1,037.1	1,039.2	1,044.4	1,048.1	1,049.2	1,056.2	1,064.4	1,073.6	1,086.2
Hawaii	173.1	172.9	172.6	173.6	174.1	174.4	176.2	176.5	175.6	175.1	175.8	175.4	175.4
Idaho	127.3	131.8	133.7	133.4	133.1	132.9	131.6	132.0	129.2	128.8	128.7	130.0	129.5
Illinois	1,794.1	1,801.4	1,790.9	1,793.9	1,794.4	1,808.5	1,818.5	1,820.1	1,822.0	1,809.8	1,805.0	1,818.2	1,821.9
Indiana	715.6	718.6	708.9	714.9	718.5	725.6	725.6	727.2	726.9	728.2	724.2	727.2	725.3
Iowa	385.0	386.7	381.3	383.1	385.1	388.4	390.1	392.9	394.3	393.4	392.2	395.1	395.6
Kansas	340.3	340.8	342.0	341.9	342.2	343.8	342.8	343.8	343.2	343.8	345.0	344.5	346.0
Kentucky	447.1	447.7	450.7	452.2	452.6	455.4	456.7	459.4	458.8	460.0	459.1	460.9	461.8
Louisiana	516.4	519.2	517.2	517.9	517.2	521.3	521.0	522.6	522.9	524.0	525.9	525.8	529.0
Maine	171.9	172.5	172.1	172.7	173.2	174.5	174.5	176.1	176.5	177.0	177.5	178.7	178.8
Maryland	800.4	802.9	804.0	808.3	807.1	808.4	806.7	812.4	813.7	814.2	817.0	825.5	830.5
Massachusetts	1,143.5	1,147.2	1,146.0	1,149.2	1,151.7	1,157.5	1,159.6	1,160.8	1,162.3	1,164.3	1,164.8	1,169.0	1,171.0
Michigan	1,257.4	1,259.6	1,258.2	1,256.7	1,259.0	1,264.1	1,269.1	1,274.0	1,276.7	1,278.7	1,278.7	1,277.0	1,283.5
Minnesota	735.0	736.3	736.3	733.5	735.2	741.5	743.1	748.0	749.3	750.5	750.3	755.2	759.2
Mississippi	261.9	262.2	261.4	259.9	260.0	260.4	263.2	262.6	265.3	264.3	263.6	264.3	264.2
Missouri	767.0	766.9	767.5	761.0	758.5	759.5	759.2	760.5	762.4	763.0	757.2	762.3	768.0
Montana	108.5	108.6	109.2	109.4	109.7	110.5	110.6	110.9	111.7	111.6	111.5	112.8	112.6
Nebraska	241.6	243.2	240.0	239.3	238.1	237.8	237.3	238.8	238.8	238.0	238.3	238.2	237.7
Nevada	403.1	403.6	403.0	404.1	404.7	405.7	409.0	411.1	413.4	420.4	421.7	424.0	423.6
New Hampshire	173.7	173.4	176.2	176.9	178.0	180.1	178.6	180.1	179.5	179.5	180.7	177.3	180.6
New Jersey	1,238.1	1,242.3	1,236.7	1,244.4	1,249.9	1,254.4	1,261.2	1,265.2	1,268.7	1,269.1	1,270.9	1,273.0	1,274.1
New Mexico	207.7	207.9	207.1	207.8	208.5	209.4	210.2	210.5	211.1	211.7	213.2	213.8	214.5
New York	2,837.2	2,848.5	2,848.4	2,857.3	2,867.5	2,879.0	2,884.9	2,890.1	2,902.6	2,908.4	2,916.1	2,929.0	2,932.7
North Carolina	951.1	956.7	960.9	960.5	959.2	964.4	962.1	961.3	960.2	961.2	966.8	970.0	973.7
North Dakota	89.9	90.6	90.6	90.4	90.7	91.1	91.2	90.3	90.1	90.4	90.1	90.3	90.0
Ohio	1,521.9	1,522.5	1,518.6	1,520.2	1,521.2	1,531.4	1,533.6	1,537.6	1,538.6	1,540.8	1,539.3	1,540.2	1,538.9
Oklahoma	408.1	409.1	411.1	413.6	415.4	419.6	421.8	422.0	421.3	421.7	422.5	423.5	423.8
Oregon	424.8	425.9	428.4	430.0	431.3	431.2	431.7	431.2	434.2	432.0	431.5	435.3	437.1
Pennsylvania	1,785.2	1,789.9	1,787.2	1,788.4	1,785.3	1,796.5	1,793.1	1,796.5	1,798.0	1,795.6	1,802.2	1,810.5	1,808.4
Rhode Island	158.0	157.9	156.2	158.1	158.0	159.1	158.0	157.9	159.2	159.7	160.8	161.0	160.5
South Carolina	426.0	427.2	431.6	431.9	434.1	434.5	435.8	437.9	437.7	439.4	438.4	438.7	441.7
South Dakota	95.6	95.9	94.9	95.9	96.7	97.5	96.4	96.2	96.3	95.1	96.9	95.3	97.3
Tennessee	714.2	715.9	712.9	713.7	715.8	715.8	715.8	718.6	716.8	717.6	716.6	719.7	721.8
Texas	2,559.7	2,569.3	2,577.0	2,583.3	2,592.9	2,604.7	2,615.3	2,636.1	2,644.2	2,650.0	2,656.0	2,661.4	2,671.3
Utah	284.2	285.2	287.3	288.9	288.8	290.9	290.3	290.7	291.9	292.9	293.1	295.1	296.0
Vermont	86.6	87.2	87.9	87.8	88.4	88.6	89.4	88.8	88.7	89.4	88.2	89.1	90.0
Virginia	1,042.1	1,045.7	1,045.2	1,048.3	1,050.7	1,053.7	1,057.4	1,062.4	1,068.4	1,071.5	1,073.7	1,073.9	1,075.9
Washington	720.7	723.2	721.1	725.4	727.5	728.9	730.6	732.3	736.5	737.7	740.3	743.7	744.8
West Virginia	210.2	211.1	212.1	212.5	211.4	210.2	209.9	211.0	213.6	214.6	213.2	213.9	215.3
Wisconsin	712.5	713.2	710.3	712.7	714.5	717.5	722.8	723.3	724.8	726.3	724.5	726.3	726.4
Wyoming	51.0	51.2	51.6	51.5	51.7	52.3	51.2	51.3	51.5	51.7	51.7	52.3	52.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P
	Government												
Alabama	348.6	349.4	348.7	349.8	350.5	350.4	349.3	347.5	347.0	351.5	355.9	352.7	351.5
Alaska	73.3	73.5	73.4	73.6	73.9	74.0	75.4	73.0	73.4	72.5	72.9	73.3	73.3
Arizona	342.7	339.6	341.5	341.3	340.6	342.6	341.8	349.8	354.9	351.2	350.2	356.7	355.2
Arkansas	187.9	186.2	186.2	186.2	186.1	186.2	186.1	186.3	187.1	191.1	188.0	188.9	188.9
California	2,192.9	2,199.0	2,198.8	2,203.6	2,209.1	2,215.6	2,221.4	2,226.0	2,222.1	2,230.0	2,236.2	2,236.1	2,241.3
Colorado	323.3	323.2	323.9	325.0	325.4	326.0	325.6	324.4	326.1	326.5	328.8	327.5	329.1
Connecticut	228.6	229.7	229.6	229.2	230.2	230.2	230.3	231.1	233.0	234.3	236.9	236.5	235.3
Delaware	54.1	54.4	54.9	54.7	55.1	55.2	55.2	54.2	55.3	54.5	53.8	55.8	55.8
District of Columbia	225.9	225.0	225.9	225.7	225.4	225.3	225.4	224.7	219.0	226.6	226.8	227.3	226.6
Florida	964.0	964.6	963.3	967.3	968.6	970.2	973.4	973.8	975.9	976.2	975.3	979.7	976.7
Georgia	588.2	589.7	591.3	591.5	593.2	591.6	592.5	593.1	593.3	596.8	607.4	594.3	595.0
Hawaii	112.1	111.9	110.8	111.0	111.1	111.4	110.7	111.8	112.3	114.8	118.3	113.0	113.7
Idaho	103.6	104.3	103.5	104.7	104.8	104.9	105.6	106.0	106.2	106.5	103.6	105.1	105.2
Illinois	816.5	812.8	813.7	808.2	809.9	809.5	808.7	810.6	817.3	817.0	821.9	811.3	818.0
Indiana	403.8	406.0	402.1	407.6	408.5	407.7	403.0	406.8	395.8	403.7	408.1	409.0	407.3
Iowa	236.3	238.2	237.9	237.3	236.8	237.7	237.5	238.1	240.0	239.1	242.0	240.8	241.6
Kansas	244.4	242.4	242.5	242.0	242.5	246.0	244.9	245.9	245.9	242.8	241.0	245.4	244.9
Kentucky	294.8	294.7	296.6	296.1	296.0	296.6	300.3	299.3	295.5	300.9	299.1	301.0	301.4
Louisiana	368.0	368.1	367.0	366.8	366.2	366.2	366.0	367.8	367.0	367.6	367.0	369.1	370.6
Maine	92.9	93.6	93.5	94.2	94.4	94.2	93.6	94.2	94.8	94.7	95.3	94.0	93.4
Maryland	440.9	439.3	440.8	440.2	439.4	439.2	440.9	442.9	435.6	437.1	434.0	439.8	440.6
Massachusetts	414.8	416.6	416.3	416.3	416.7	415.2	415.5	416.0	413.7	415.4	416.5	417.5	417.5
Michigan	660.5	660.0	659.2	658.3	658.2	660.0	659.9	662.9	663.9	662.7	661.3	661.6	663.0
Minnesota	382.9	384.8	384.6	385.2	386.9	387.2	385.3	384.4	383.0	382.3	386.4	384.3	381.1
Mississippi	225.2	225.5	225.1	225.3	225.6	226.1	225.6	224.9	232.4	227.0	226.8	226.0	227.4
Missouri	418.8	420.9	419.0	418.0	421.3	420.0	422.6	424.6	422.7	420.7	422.5	424.3	423.1
Montana	79.5	79.4	79.4	78.4	79.5	79.2	78.1	76.4	79.6	79.4	78.9	80.1	79.9
Nebraska	149.8	150.4	149.8	149.8	149.5	149.8	149.6	151.0	153.8	151.5	151.0	150.7	151.5
Nevada	113.5	113.9	114.9	115.0	116.2	116.8	117.9	115.7	117.2	117.0	116.6	119.3	119.3
New Hampshire	79.5	78.9	79.5	79.9	79.9	79.6	80.5	79.9	80.4	80.9	79.7	79.1	80.1
New Jersey	569.9	570.8	570.3	569.2	569.5	570.1	570.6	569.9	570.1	568.3	572.1	573.2	574.2
New Mexico	177.5	177.5	179.1	177.6	179.7	179.2	179.4	179.6	178.6	180.2	178.6	180.0	180.9
New York	1,421.0	1,421.8	1,413.3	1,424.2	1,424.4	1,424.0	1,423.3	1,416.3	1,428.9	1,426.6	1,442.5	1,449.6	1,448.1
North Carolina	600.7	601.2	597.5	597.1	597.4	597.3	595.1	594.2	617.6	637.3	620.7	618.2	618.8
North Dakota	70.4	70.6	71.7	71.1	71.3	71.5	71.0	69.6	69.0	69.0	69.7	69.6	70.6
Ohio	765.8	766.9	757.7	766.2	768.1	769.5	767.7	768.8	776.3	773.4	771.0	772.3	771.0
Oklahoma	278.9	279.3	278.0	279.1	280.9	282.0	281.2	282.9	282.2	286.6	286.2	286.8	286.2
Oregon	260.9	259.5	259.8	260.0	260.5	261.2	260.3	260.7	267.0	266.8	261.8	263.5	261.9
Pennsylvania	704.3	707.0	709.8	707.6	706.1	707.4	706.1	701.6	702.1	703.1	711.1	708.5	706.5
Rhode Island	63.6	63.7	63.9	63.1	63.5	63.6	63.8	64.3	64.8	64.0	65.8	65.4	64.5
South Carolina	310.1	310.3	312.8	312.2	312.1	311.6	312.7	317.6	315.0	317.2	316.2	314.7	316.5
South Dakota	71.2	71.0	71.1	71.5	71.1	70.8	71.1	71.9	73.6	73.9	70.6	70.5	69.1
Tennessee	384.6	384.1	382.4	383.9	383.8	383.0	382.5	391.3	385.6	395.8	381.8	380.7	382.0
Texas	1,529.9	1,529.9	1,531.6	1,534.7	1,538.2	1,539.2	1,542.8	1,541.6	1,541.2	1,550.1	1,553.6	1,562.7	1,567.5
Utah	179.1	179.9	176.2	177.1	177.4	177.7	177.4	177.7	178.4	178.7	183.9	182.2	182.5
Vermont	46.4	46.5	46.9	46.5	46.9	46.6	47.3	47.0	47.2	47.5	47.0	47.3	47.0
Virginia	602.5	605.0	602.9	605.2	606.8	609.2	609.1	609.9	614.7	615.1	613.3	610.6	610.2
Washington	466.2	466.8	470.9	469.6	471.4	473.1	471.7	470.6	476.8	477.9	468.6	470.8	473.4
West Virginia	139.7	140.0	141.2	140.1	140.1	140.5	139.9	141.0	139.1	141.2	141.9	141.1	141.2
Wisconsin	395.5	396.3	397.6	396.3	395.5	396.1	397.7	396.5	397.6	399.9	395.6	397.6	397.4
Wyoming	58.3	58.2	58.0	58.1	58.1	58.5	58.7	57.7	59.7	59.6	58.9	59.1	58.9

¹ Includes mining, not shown separately.

² Mining is combined with construction.

P = preliminary.

NOTE: All data have been adjusted to March 1998 benchmarks and incorporate updated seasonal adjustment factors.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

B-8. Average weekly hours of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Total private	34.6	34.6	34.6	34.5	34.4	34.4	34.5	34.5	34.5	34.4	34.5	34.5	34.5
Goods-producing	41.1	41.1	41.0	40.8	40.9	41.0	41.2	41.2	41.1	41.1	41.1	41.3	41.0
Mining	43.3	42.9	43.0	42.9	43.8	44.1	44.0	45.1	44.2	44.3	44.1	44.2	44.9
Construction	39.4	39.5	39.2	38.5	38.6	38.9	39.4	38.9	39.0	39.1	39.1	40.0	38.9
Manufacturing	41.7	41.6	41.6	41.5	41.6	41.7	41.7	41.9	41.8	41.8	41.8	41.7	41.7
<i>Overtime hours</i>	4.5	4.5	4.5	4.5	4.3	4.6	4.7	4.7	4.7	4.7	4.7	4.6	4.7
Durable goods	42.2	42.2	42.2	42.0	42.1	42.2	42.3	42.5	42.4	42.4	42.3	42.2	42.1
<i>Overtime hours</i>	4.6	4.6	4.6	4.6	4.3	4.7	4.8	4.9	4.9	4.9	4.8	4.7	4.8
Lumber and wood products	41.5	41.7	41.1	41.2	41.2	41.2	41.1	41.1	41.3	41.1	41.1	41.0	40.8
Furniture and fixtures	40.2	40.4	40.3	40.3	40.4	40.4	40.4	40.6	40.3	40.4	40.2	40.0	40.5
Stone, clay, and glass products	43.8	43.8	43.4	42.9	43.1	43.4	43.4	43.6	43.6	43.6	43.4	43.9	43.1
Primary metal industries	43.7	43.7	43.8	43.9	44.0	44.3	44.3	44.5	44.4	44.4	44.3	44.3	44.5
Blast furnaces and basic steel products	43.3	43.8	43.8	43.9	44.5	44.8	45.2	45.2	45.1	45.0	45.0	45.4	45.8
Fabricated metal products	42.2	42.1	42.1	42.1	41.8	42.1	42.1	42.3	42.4	42.3	42.1	42.1	42.1
Industrial machinery and equipment	42.1	42.1	42.1	41.9	41.9	42.1	42.0	42.4	42.4	42.4	42.4	42.3	42.4
Electronic and other electrical equipment	41.1	41.2	41.2	41.0	41.1	41.5	41.5	41.7	41.7	41.6	41.6	41.5	41.4
Transportation equipment	44.1	43.5	44.0	43.7	44.0	43.5	44.2	44.4	44.0	44.0	43.9	43.5	43.0
Motor vehicles and equipment	44.9	44.3	45.0	44.7	45.1	44.4	45.4	46.0	45.2	45.2	45.3	44.7	44.1
Instruments and related products	41.1	41.2	41.3	41.2	41.6	41.6	41.5	41.7	41.6	41.6	41.5	41.6	41.7
Miscellaneous manufacturing	39.6	39.6	39.7	39.8	39.6	40.2	40.0	40.1	40.1	40.0	39.8	39.6	39.7
Nondurable goods	40.9	40.8	40.8	40.8	40.9	41.0	41.0	41.1	40.9	40.9	41.0	41.0	41.0
<i>Overtime hours</i>	4.3	4.4	4.3	4.4	4.2	4.4	4.5	4.5	4.4	4.4	4.5	4.4	4.6
Food and kindred products	42.0	41.8	41.7	41.7	41.9	41.8	41.8	42.0	41.6	41.7	42.0	41.8	41.7
Tobacco products	36.6	38.1	38.5	38.8	38.6	39.9	39.1	41.1	40.0	40.2	41.0	42.3	43.5
Textile mill products	40.8	40.8	40.6	40.4	41.0	41.0	40.6	41.3	40.9	40.8	41.3	41.2	41.4
Apparel and other textile products	37.3	37.0	37.5	37.4	37.5	37.8	37.7	37.5	37.3	37.5	37.5	37.3	37.5
Paper and allied products	43.4	43.5	43.5	43.7	43.6	43.5	43.5	43.5	43.7	43.5	43.5	43.5	43.3
Printing and publishing	38.1	38.2	38.1	37.9	38.1	38.3	38.3	38.4	38.3	38.3	38.4	38.3	38.3
Chemicals and allied products	42.7	42.9	42.8	42.8	43.0	43.0	43.0	43.1	43.3	43.2	43.1	43.2	43.1
Petroleum and coal products	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products	41.7	41.4	41.7	41.8	41.5	41.9	41.8	41.7	41.6	41.7	41.5	41.6	41.5
Leather and leather products	37.5	37.3	37.7	37.7	38.1	38.4	37.9	37.9	38.2	37.2	37.5	37.8	37.7
Service-producing	32.9	32.9	33.0	32.8	32.8	32.8	32.8	32.9	32.9	32.8	32.8	32.8	32.9
Transportation and public utilities	39.1	39.3	39.2	39.1	39.0	38.8	38.9	38.7	38.9	38.6	38.5	38.1	38.3
Wholesale trade	38.4	38.4	38.5	38.4	38.4	38.3	38.4	38.4	38.4	38.5	38.6	38.4	38.5
Retail trade	29.0	29.0	29.2	29.0	29.0	29.1	29.1	29.1	29.0	28.8	28.9	28.9	29.0
Finance, insurance, and real estate	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Services	32.7	32.7	32.7	32.6	32.5	32.5	32.6	32.6	32.7	32.6	32.7	32.8	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, which are small relative to the trend-cycle and irregular

components, cannot be separated with sufficient precision.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1995 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(1982=100)

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Total private	146.6	146.8	147.3	146.8	147.0	147.2	147.8	148.3	148.4	148.2	148.8	149.2	149.3
Goods-producing	115.5	115.2	115.0	114.2	114.2	114.4	114.6	115.1	114.3	114.6	114.7	115.6	114.7
Mining	53.4	51.8	51.0	50.5	50.4	50.1	49.7	50.9	49.8	50.3	50.6	50.4	51.6
Construction	171.3	171.9	171.9	169.1	169.2	170.0	172.8	170.7	170.3	172.4	173.2	179.0	174.2
Manufacturing	107.5	107.1	106.8	106.5	106.5	106.5	106.3	107.3	106.4	106.4	106.2	106.1	106.0
Durable goods	111.5	111.0	110.8	110.4	110.4	110.5	110.4	111.9	111.2	110.9	110.5	110.4	110.0
Lumber and wood products	148.1	149.5	147.6	147.9	147.5	147.3	146.9	147.3	147.6	147.1	147.6	147.2	146.5
Furniture and fixtures	134.6	135.3	134.9	135.2	135.6	135.9	136.2	138.8	137.5	137.5	137.4	136.1	137.5
Stone, clay, and glass products	118.1	117.8	117.0	115.4	116.2	117.0	116.8	118.1	116.8	117.0	116.2	118.1	115.7
Primary metal industries	90.4	89.9	90.0	90.0	89.9	90.3	89.8	91.1	90.4	90.2	89.8	90.2	90.6
Blast furnaces and basic steel products	68.0	68.0	68.0	68.2	69.1	69.2	69.4	69.8	70.0	69.9	69.9	70.5	71.1
Fabricated metal products	117.7	117.7	117.2	117.0	116.2	116.9	116.6	118.2	117.4	117.2	116.8	116.9	117.0
Industrial machinery and equipment	106.3	105.4	105.2	104.4	104.1	104.5	104.0	105.3	104.4	104.2	104.1	104.0	104.1
Electronic and other electrical equipment	105.9	105.9	105.2	105.1	105.6	106.2	105.9	108.0	107.2	106.7	106.7	106.4	106.4
Transportation equipment	127.3	125.1	125.9	125.3	125.5	123.4	125.0	127.1	126.6	125.4	124.2	123.0	121.2
Motor vehicles and equipment	163.6	161.0	162.7	162.7	164.8	162.4	165.9	172.1	169.9	168.0	167.3	165.5	163.0
Instruments and related products	75.0	75.0	75.2	74.7	75.8	75.6	75.2	76.0	75.4	75.1	75.1	75.2	74.7
Miscellaneous manufacturing	100.3	99.5	99.8	100.0	100.3	101.4	100.9	101.1	101.1	101.3	100.8	100.3	100.9
Nondurable goods	102.1	101.8	101.5	101.2	101.2	101.1	100.5	100.9	99.9	100.2	100.4	100.3	100.5
Food and kindred products	119.3	119.3	118.8	118.8	118.9	118.5	117.9	119.1	116.2	117.7	118.7	118.6	119.1
Tobacco products	56.2	58.5	57.2	55.7	55.4	55.3	56.2	59.0	49.5	53.7	54.8	56.6	58.2
Textile mill products	83.4	83.1	82.0	81.1	81.6	81.1	79.8	81.3	80.0	79.5	80.0	79.9	80.2
Apparel and other textile products	63.4	62.3	62.1	61.5	61.4	61.4	60.4	59.3	58.6	58.6	58.1	57.7	57.6
Paper and allied products	107.1	107.1	106.7	107.0	106.7	106.3	106.0	106.0	105.9	105.6	105.2	105.4	105.3
Printing and publishing	123.0	123.4	122.8	121.9	121.9	122.3	122.3	122.4	122.1	122.1	122.6	121.8	121.5
Chemicals and allied products	102.2	102.4	102.0	101.8	102.4	102.3	101.9	102.1	102.3	102.7	102.8	103.3	103.0
Petroleum and coal products	79.4	76.2	77.4	76.4	74.5	73.9	72.9	74.4	72.5	73.9	73.2	72.4	75.1
Rubber and misc. plastics products	148.1	147.8	148.5	148.8	148.5	149.5	148.6	149.6	149.4	149.2	149.2	149.6	150.4
Leather and leather products	33.4	32.7	33.0	32.4	32.8	32.4	32.0	30.9	31.7	30.9	30.5	30.8	29.5
Service-producing	160.5	161.0	161.8	161.5	161.6	161.9	162.7	163.2	163.7	163.3	164.1	164.2	164.8
Transportation and public utilities	133.0	134.1	134.1	133.8	133.6	133.0	133.7	133.2	134.1	133.5	133.3	132.2	133.0
Wholesale trade	130.2	130.6	131.3	131.3	131.6	131.5	132.0	132.3	132.5	133.1	133.8	133.1	133.7
Retail trade	140.9	141.3	142.9	141.9	142.6	143.3	143.6	144.4	143.8	142.6	143.1	143.1	143.9
Finance, insurance, and real estate	138.9	139.1	139.6	139.3	139.1	138.8	139.4	141.2	140.7	140.2	140.5	139.8	140.4
Services	197.8	198.3	198.9	198.8	198.9	199.3	200.7	201.1	202.4	202.3	204.0	205.0	205.3

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 1998 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1995 forward are subject to revision.

**ESTABLISHMENT DATA
ALL-EMPLOYEE HOURS
SEASONALLY ADJUSTED**

B-10. Hours of wage and salary workers on nonfarm payrolls by major industry, seasonally adjusted

Industry	Millions of hours (annual rate) ¹			Percent change		
	Oct. 1999 ^r	Nov. 1999 ^r	Dec. 1999 ^p	Dec. 1998 to Dec. 1999 ^p	Oct. 1999 to Nov. 1999 ^r	Nov. 1999 To Dec. 1999 ^p
Total	236,968	236,815	237,701	1.8	-0.1	0.4
Private sector	198,738	199,027	199,379	1.9	.1	.2
Mining	1,210	1,210	1,241	-3.0	.0	2.6
Construction	12,838	13,248	12,916	2.1	3.2	-2.5
Manufacturing	39,883	39,852	39,816	-1.3	-.1	-.1
Durable goods	24,040	24,019	23,985	-1.2	-.1	-.1
Nondurable goods	15,843	15,833	15,831	-1.6	-.1	.0
Transportation and public utilities	13,724	13,674	13,756	.7	-.4	.6
Wholesale trade	14,179	14,109	14,178	2.9	-.5	.5
Retail trade	34,401	34,395	34,612	1.9	.0	.6
Finance, insurance, and real estate	14,504	14,463	14,524	1.7	-.3	.4
Services	68,000	68,076	68,337	4.0	.1	.4
Government	38,230	37,788	38,322	1.0	-1.2	1.4

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 2490, chapter 10, "Productivity Measures: Business Sector and Major Subsectors".

SOURCE: Office of Productivity and Technology (202—691-5606). Historical data for this series also are available on the Internet at the following address:

<http://ftp.bls.gov/pub/special.requests/opt/tableb10.txt>

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

B-11. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, seasonally adjusted

Industry	1998	1999											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Average hourly earnings													
Total private (in current dollars)	\$12.98	\$13.04	\$13.06	\$13.11	\$13.14	\$13.18	\$13.24	\$13.28	\$13.29	\$13.35	\$13.39	\$13.40	\$13.46
Goods-producing	14.51	14.53	14.56	14.61	14.67	14.75	14.85	14.90	14.90	14.93	14.97	15.00	15.04
Mining	17.18	17.07	16.97	17.00	16.87	17.05	16.96	17.23	17.12	17.09	17.09	16.92	17.10
Construction	16.80	16.80	16.83	16.92	16.97	17.08	17.16	17.18	17.15	17.21	17.27	17.32	17.43
Manufacturing	13.60	13.64	13.67	13.71	13.79	13.85	13.95	14.02	14.03	14.04	14.07	14.07	14.10
Excluding overtime ²	12.90	12.93	12.97	13.00	13.09	13.13	13.20	13.26	13.28	13.29	13.33	13.33	13.36
Service-producing	12.49	12.56	12.58	12.63	12.65	12.68	12.73	12.77	12.79	12.85	12.89	12.90	12.97
Transportation and public utilities	15.47	15.49	15.51	15.53	15.60	15.65	15.65	15.70	15.70	15.76	15.76	15.80	15.89
Wholesale trade	14.30	14.36	14.36	14.42	14.44	14.48	14.56	14.61	14.63	14.74	14.80	14.85	14.95
Retail trade	8.89	8.93	8.95	8.98	9.03	9.04	9.06	9.10	9.13	9.15	9.18	9.20	9.26
Finance, insurance, and real estate	14.40	14.46	14.49	14.51	14.58	14.60	14.62	14.68	14.63	14.70	14.72	14.72	14.74
Services	13.08	13.17	13.22	13.27	13.28	13.33	13.38	13.42	13.44	13.49	13.55	13.55	13.62
Total private (in constant (1982) dollars)³	7.81	7.83	7.84	7.86	7.83	7.85	7.89	7.88	7.87	7.86	7.87	7.86	(4)
Goods-producing	8.74	8.73	8.74	8.76	8.74	8.78	8.84	8.84	8.82	8.79	8.80	8.80	(4)
Service-producing	7.52	7.54	7.56	7.58	7.53	7.55	7.58	7.58	7.57	7.56	7.58	7.57	(4)
Average weekly earnings													
Total private (in current dollars)	449.11	451.18	451.88	452.30	452.02	453.39	456.78	458.16	458.51	459.24	461.96	462.30	464.37
Goods-producing	596.36	597.18	596.96	596.09	600.00	604.75	611.82	613.88	612.39	613.62	615.27	619.50	616.64
Mining	743.89	732.30	729.71	729.30	738.91	751.91	746.24	777.07	756.70	757.09	753.67	747.86	767.79
Construction	661.92	663.60	659.74	651.42	655.04	664.41	676.10	668.30	668.85	672.91	675.26	692.80	678.03
Manufacturing	567.12	567.42	568.67	568.97	573.66	577.55	581.72	587.44	586.45	586.87	588.13	586.72	587.97
Service-producing	410.92	413.22	415.14	414.26	414.92	415.90	417.54	420.13	420.79	421.48	422.79	423.12	426.71
Transportation and public utilities	604.88	608.76	607.99	607.22	608.40	607.22	608.79	607.59	610.73	608.34	606.76	601.98	608.59
Wholesale trade	549.12	551.42	552.86	553.73	554.50	554.58	559.10	561.02	561.79	567.49	571.28	570.24	575.58
Retail trade	257.81	258.97	261.34	260.42	261.87	263.06	263.65	264.81	264.77	263.52	265.30	265.88	268.54
Finance, insurance, and real estate	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Services	427.72	430.66	432.29	432.60	431.60	433.23	436.19	437.49	439.49	439.77	443.09	444.44	446.74
Total private (in constant (1982) dollars)³	270.39	270.98	271.40	271.33	269.22	270.04	272.05	271.91	271.47	270.30	271.58	271.30	(4)
Goods-producing	359.04	358.67	358.53	357.58	357.36	360.18	364.40	364.32	362.58	361.17	361.71	363.56	(4)
Service-producing	247.39	248.18	249.33	248.51	247.12	247.71	248.68	249.34	249.14	248.08	248.55	248.31	(4)

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

³ The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

⁴ Not available.

⁵ This series is not computed because the average weekly hours' component is not available on a seasonally adjusted basis.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1995 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Total		127,902	128,028	130,209	130,589	130,694	—	—	—	—	—
Total private		107,489	107,686	109,664	109,891	110,015	88,035	88,188	89,789	89,998	90,078
Mining		577	570	534	531	527	439	432	408	405	402
Metal mining	10	49.6	49.6	47.6	48.4	48.2	37.5	37.7	36.3	37.1	—
Iron ores	101	8.2	8.2	7.4	8.4	—	6.8	6.8	6.1	7.2	—
Copper ores	102	14.5	14.6	14.9	14.8	—	10.8	10.9	11.4	11.4	—
Coal mining	12	90.4	90.4	82.3	82.5	82.8	74.5	74.2	68.0	68.5	—
Bituminous coal and lignite mining	122	84.3	84.3	76.5	76.5	—	69.2	68.9	63.0	63.2	—
Oil and gas extraction	13	326.5	322.1	292.7	290.5	292.3	242.5	238.9	217.7	215.7	—
Crude petroleum and natural gas	131	134.8	135.0	125.0	124.0	—	81.0	81.4	78.0	78.2	—
Oil and gas field services	138	187.4	182.7	164.6	163.4	—	157.5	153.4	137.1	135.0	—
Nonmetallic minerals, except fuels	14	110.5	107.6	111.8	109.7	104.1	84.0	81.4	85.5	83.9	—
Crushed and broken stone	142	43.3	42.4	44.2	43.7	—	33.6	32.9	34.6	34.3	—
Sand and gravel	144	36.9	35.1	37.7	36.8	—	—	—	—	—	—
Chemical and fertilizer minerals	147	11.5	11.5	11.7	11.5	—	—	—	—	—	—
Construction		6,209	6,068	6,549	6,489	6,284	4,835	4,694	5,106	5,050	4,839
General building contractors	15	1,409.3	1,396.0	1,471.5	1,465.9	1,441.7	989.5	975.0	1,030.9	1,025.2	—
Residential building construction	152	717.4	709.3	759.4	757.1	—	484.3	475.4	516.2	514.2	—
Operative builders	153	27.8	27.5	29.3	29.6	—	11.2	10.8	12.0	12.1	—
Nonresidential building construction	154	664.1	659.2	682.8	679.2	—	494.0	488.8	502.7	498.9	—
Heavy construction, except building	16	885.0	826.4	932.9	898.9	834.8	747.3	689.5	789.1	757.3	—
Highway and street construction	161	268.0	232.9	302.1	279.3	—	221.1	186.5	253.6	232.5	—
Heavy construction, except highway	162	617.0	593.5	630.8	619.6	—	526.2	503.0	535.5	524.8	—
Special trade contractors	17	3,914.3	3,845.9	4,145.0	4,123.8	4,007.9	3,098.4	3,029.1	3,285.9	3,267.1	—
Plumbing, heating, and air conditioning	171	847.2	848.2	879.3	880.9	—	626.3	627.6	648.6	649.6	—
Painting and paper hanging	172	209.3	199.7	220.9	219.5	—	173.9	163.9	184.3	182.9	—
Electrical work	173	748.2	751.8	789.8	789.2	—	594.3	595.6	624.9	624.3	—
Masonry, stonework, and plastering	174	523.8	514.8	553.8	554.9	—	454.8	445.5	481.6	482.9	—
Carpentry and floor work	175	284.0	284.9	297.2	296.9	—	215.7	216.5	224.5	225.6	—
Roofing, siding, and sheet metal work	176	263.7	255.7	280.9	276.1	—	210.0	202.2	223.1	218.7	—
Manufacturing		18,677	18,636	18,413	18,405	18,377	12,846	12,818	12,663	12,655	12,634
Durable goods		11,111	11,096	10,969	10,979	10,979	7,595	7,590	7,503	7,513	7,514
Lumber and wood products	24	822.3	821.8	834.9	832.5	829.4	675.3	674.3	685.2	682.4	679.1
Logging	241	80.7	80.0	79.3	78.3	—	63.7	63.0	64.0	63.1	—
Sawmills and planing mills	242	182.4	182.5	180.1	179.3	—	158.8	158.9	156.5	155.5	—
Sawmills and planing mills, general	2421	141.3	141.7	138.8	138.2	—	122.7	123.0	120.0	119.3	—
Hardwood dimension and flooring mills	2426	38.1	37.9	38.4	38.3	—	33.7	33.6	34.2	34.0	—
Millwork, plywood, and structural members	243	314.5	314.9	330.9	330.5	—	252.7	252.8	265.2	264.7	—
Millwork	2431	125.0	125.5	132.4	131.6	—	97.2	97.4	103.4	102.7	—
Wood kitchen cabinets	2434	90.3	90.2	96.2	96.3	—	73.2	73.0	78.0	78.2	—
Hardwood veneer and plywood	2435	28.4	28.6	28.9	29.5	—	24.0	24.3	24.5	25.1	—
Softwood veneer and plywood	2436	27.7	27.6	28.1	28.3	—	25.0	24.8	24.6	24.7	—
Wood containers	244	54.4	54.5	55.1	55.2	—	46.7	46.7	47.1	47.1	—
Wood buildings and mobile homes	245	101.2	101.4	101.0	100.2	—	80.9	80.8	80.1	79.1	—
Mobile homes	2451	77.8	78.2	75.7	75.0	—	65.1	65.3	63.2	62.2	—
Miscellaneous wood products	249	89.1	88.5	88.5	89.0	—	72.5	72.1	72.3	72.9	—
Furniture and fixtures	25	533.7	536.7	545.4	544.1	545.1	424.6	428.5	434.4	433.2	434.1
Household furniture	251	282.7	284.7	287.3	287.5	—	239.5	241.9	245.0	244.8	—
Wood household furniture	2511	129.5	130.2	130.2	130.2	—	112.3	113.1	113.5	113.2	—
Upholstered household furniture	2512	89.4	89.9	91.8	92.1	—	76.0	76.6	78.6	78.7	—
Metal household furniture	2514	17.7	18.5	18.4	19.1	—	14.6	15.5	15.4	16.1	—
Mattresses and bedsprings	2515	33.9	34.2	35.4	34.6	—	26.2	26.6	27.7	26.9	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Furniture and fixtures—Continued											
Office furniture	252	69.9	70.1	70.2	70.5	—	50.8	51.1	50.0	50.2	—
Public building and related furniture	253	46.9	47.4	50.6	50.6	—	36.5	37.0	39.3	39.5	—
Partitions and fixtures	254	93.7	93.9	95.3	93.6	—	70.3	71.0	71.4	69.9	—
Miscellaneous furniture and fixtures	259	40.5	40.6	42.0	41.9	—	27.5	27.5	28.7	28.8	—
Stone, clay, and glass products											
Flat glass	321	16.6	16.7	16.9	17.2	—	13.1	13.3	13.5	13.9	—
Glass and glassware, pressed or blown	322	70.8	70.4	69.1	69.8	—	58.3	57.9	56.3	56.4	—
Glass containers	3221	25.1	25.2	23.4	23.5	—	22.2	22.3	20.4	20.5	—
Pressed and blown glass, nec	3229	45.7	45.2	45.7	46.3	—	36.1	35.6	35.9	35.9	—
Products of purchased glass	323	64.2	63.1	64.2	63.7	—	49.5	48.4	49.2	48.4	—
Cement, hydraulic	324	17.3	17.4	17.4	17.4	—	12.9	13.0	12.7	12.7	—
Structural clay products	325	33.5	33.2	34.0	34.0	—	25.7	25.5	26.5	26.4	—
Pottery and related products	326	38.3	38.4	36.7	36.7	—	30.2	30.3	28.7	28.7	—
Concrete, gypsum, and plaster products	327	236.3	232.0	244.3	242.0	—	183.9	180.3	191.7	190.0	—
Concrete block and brick	3271	19.2	19.1	20.3	20.2	—	12.3	12.2	13.4	13.4	—
Concrete products, nec	3272	79.3	78.5	83.7	82.9	—	61.5	60.8	65.4	64.6	—
Ready-mixed concrete	3273	119.8	116.4	122.1	120.7	—	95.9	93.0	98.5	97.5	—
Misc. nonmetallic mineral products	329	78.6	78.4	77.6	77.9	—	61.3	61.1	60.1	60.3	—
Abrasive products	3291	19.1	19.0	18.7	18.8	—	15.0	15.1	14.7	14.7	—
Asbestos products	3292	2.3	2.3	2.0	2.0	—	2.0	1.9	1.7	1.7	—
Mineral wool	3296	24.6	24.6	25.0	24.9	—	—	—	—	—	—
Primary metal industries											
Blast furnaces and basic steel products	331	225.9	226.5	221.0	222.6	223.8	174.2	175.1	172.2	172.7	173.1
Blast furnaces and steel mills	3312	155.9	156.4	152.4	154.1	—	121.4	122.2	119.6	120.3	—
Steel pipe and tubes	3317	27.7	28.0	28.3	28.3	—	21.0	21.2	21.9	21.7	—
Iron and steel foundries	332	129.5	128.6	124.2	124.9	—	106.0	105.2	101.4	102.3	—
Gray and ductile iron foundries	3321	78.0	77.7	77.6	77.6	—	64.5	64.3	64.3	64.4	—
Malleable iron foundries	3322	4.6	4.5	4.5	4.5	—	3.4	3.4	3.4	3.4	—
Steel foundries, nec	3325	29.1	29.0	26.5	27.1	—	23.9	23.7	21.5	22.2	—
Primary nonferrous metals	333	37.9	37.8	36.3	37.0	—	29.3	29.4	28.4	28.6	—
Primary aluminum	3334	21.9	21.8	20.9	21.6	—	17.6	17.7	17.4	17.6	—
Nonferrous rolling and drawing	335	169.9	169.7	167.8	168.0	—	129.9	129.7	127.2	127.5	—
Copper rolling and drawing	3351	22.8	22.9	22.1	22.1	—	18.6	18.7	17.7	17.8	—
Aluminum sheet, plate, and foil	3353	19.9	20.1	19.5	19.5	—	14.6	14.8	14.4	14.5	—
Nonferrous wire drawing and insulating	3357	73.5	72.8	71.9	72.2	—	55.2	54.8	54.1	54.4	—
Nonferrous foundries (castings)	336	91.5	91.8	90.5	90.9	—	74.6	74.7	73.8	74.3	—
Aluminum foundries	3365	26.3	26.4	26.0	26.2	—	21.8	21.8	21.7	21.9	—
Fabricated metal products											
Metal cans and shipping containers	341	36.1	36.0	35.4	35.4	—	30.5	30.5	30.0	30.0	—
Metal cans	3411	29.2	29.1	28.7	28.7	—	25.2	25.2	24.8	24.8	—
Cutlery, handtools, and hardware	342	124.9	124.9	123.0	122.4	—	96.2	96.2	94.6	94.2	—
Hand and edge tools, and blades and handsaws	3423,5	42.9	42.9	41.9	42.0	—	33.4	33.3	32.7	32.7	—
Hardware, nec	3429	69.1	69.1	68.8	67.9	—	53.0	53.1	52.6	52.1	—
Plumbing and heating, except electric	343	58.1	58.3	58.9	58.2	—	41.3	41.4	41.8	41.4	—
Plumbing fixture fittings and trim	3432	23.8	24.0	23.7	23.8	—	17.3	17.4	16.9	17.0	—
Heating equipment, except electric	3433	19.9	20.0	20.3	19.6	—	13.1	13.1	13.9	13.4	—
Fabricated structural metal products	344	466.7	467.5	472.6	472.9	—	342.1	342.7	345.0	345.5	—
Fabricated structural metal	3441	83.1	83.4	83.8	84.1	—	61.1	61.2	60.7	60.9	—
Metal doors, sash, and trim	3442	80.1	80.0	85.4	85.3	—	59.6	59.2	63.1	63.0	—
Fabricated plate work (boiler shops)	3443	101.8	102.4	97.9	97.9	—	72.9	73.6	70.1	70.2	—
Sheet metal work	3444	124.0	123.7	126.6	126.4	—	95.3	95.4	97.6	97.8	—
Architectural metal work	3446	32.7	33.1	33.8	34.0	—	24.1	24.3	24.3	24.4	—
Screw machine products, bolts, etc	345	106.1	106.0	102.3	103.4	—	83.0	83.0	79.5	80.6	—
Screw machine products	3451	54.6	54.6	52.1	52.8	—	44.4	44.5	42.0	42.7	—
Bolts, nuts, rivets, and washers	3452	51.5	51.4	50.2	50.6	—	38.6	38.5	37.5	37.9	—
Metal forgings and stampings	346	258.9	260.0	255.0	256.6	—	204.0	204.6	200.6	202.4	—
Iron and steel forgings	3462	32.6	32.4	30.3	30.6	—	24.6	24.4	22.6	22.9	—
Automotive stampings	3465	116.1	116.8	114.7	115.5	—	94.8	95.3	93.7	94.6	—
Metal stampings, nec	3469	96.4	96.8	97.0	97.4	—	73.9	74.1	74.3	74.8	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Fabricated metal products—Continued											
Metal services, nec	347	142.5	141.3	142.2	142.0	—	115.0	113.9	113.8	113.8	—
Plating and polishing	3471	87.1	86.4	86.6	86.5	—	71.1	70.3	70.3	70.1	—
Metal coating and allied services	3479	55.4	54.9	55.6	55.5	—	43.9	43.6	43.5	43.7	—
Ordnance and accessories, nec	348	40.3	40.2	39.6	39.4	—	24.0	24.1	23.3	22.8	—
Ammunition, except for small arms, nec	3483	19.4	19.3	18.5	18.3	—	9.0	9.1	8.8	8.7	—
Miscellaneous fabricated metal products	349	264.3	263.8	261.7	262.1	—	192.6	192.1	191.8	192.1	—
Valves and pipe fittings, nec	3494	24.3	24.5	23.5	23.4	—	17.4	17.5	17.2	17.3	—
Misc. fabricated wire products	3496	57.3	57.5	57.8	58.1	—	43.4	43.5	44.1	44.2	—
Industrial machinery and equipment	35	2,172.5	2,168.4	2,110.7	2,113.0	2,118.3	1,372.7	1,371.5	1,325.0	1,329.5	1,334.6
Engines and turbines	351	83.7	83.8	84.4	84.4	—	54.7	54.8	55.7	56.3	—
Turbines and turbine generator sets	3511	24.1	24.1	23.7	23.6	—	13.5	13.4	12.5	12.5	—
Internal combustion engines, nec	3519	59.6	59.7	60.7	60.8	—	41.2	41.4	43.2	43.8	—
Farm and garden machinery	352	98.7	98.2	92.3	94.0	—	70.4	70.2	63.2	65.5	—
Farm machinery and equipment	3523	73.6	72.4	69.8	69.7	—	51.6	50.5	48.2	48.2	—
Construction and related machinery	353	250.4	250.3	240.8	240.8	—	161.5	160.7	151.5	151.6	—
Construction machinery	3531	91.1	91.2	91.1	91.0	—	61.6	61.7	61.3	61.2	—
Mining machinery	3532	16.9	16.7	14.9	15.0	—	10.0	9.7	8.3	8.4	—
Oil and gas field machinery	3533	47.7	47.2	40.0	40.2	—	31.1	30.2	23.7	23.8	—
Conveyors and conveying equipment	3535	41.4	41.6	41.1	41.0	—	22.3	22.5	21.2	21.4	—
Industrial trucks and tractors	3537	34.3	34.4	34.2	34.0	—	24.1	24.1	23.9	23.6	—
Metalworking machinery	354	348.7	348.5	335.2	334.8	—	248.5	248.8	239.5	239.2	—
Machine tools, metal cutting types	3541	43.0	42.7	39.6	39.5	—	27.0	26.8	24.3	24.3	—
Machine tools, metal forming types	3542	17.3	17.3	16.7	16.8	—	10.8	10.8	10.2	10.2	—
Special dies, tools, jigs, and fixtures	3544	167.1	167.3	163.7	163.7	—	127.1	127.6	125.4	125.2	—
Machine tool accessories	3545	54.9	55.1	52.6	52.0	—	39.3	39.4	37.4	37.2	—
Power driven handtools	3546	20.6	20.6	19.7	19.8	—	14.7	14.9	14.7	14.7	—
Special industry machinery	355	174.3	173.3	167.9	167.6	—	96.3	95.3	89.1	88.6	—
Textile machinery	3552	13.9	13.9	13.0	13.0	—	8.9	8.9	8.4	8.4	—
Printing trades machinery	3555	21.8	21.8	20.4	20.3	—	12.3	12.1	11.3	11.2	—
Food products machinery	3556	24.7	24.8	24.5	24.3	—	14.9	14.9	14.6	14.5	—
General industrial machinery	356	266.0	267.1	258.0	258.7	—	169.0	169.8	164.5	164.7	—
Pumps and pumping equipment	3561	31.2	31.3	30.0	29.9	—	18.1	18.1	17.2	17.1	—
Ball and roller bearings	3562	41.2	41.1	39.6	39.6	—	31.7	31.6	30.6	30.6	—
Air and gas compressors	3563	26.0	26.1	27.5	28.1	—	14.5	14.5	15.4	15.5	—
Blowers and fans	3564	36.6	36.6	36.3	36.4	—	25.5	25.5	25.8	25.9	—
Speed changers, drives, and gears	3566	18.0	17.9	16.4	16.4	—	13.1	13.1	11.8	11.9	—
Power transmission equipment, nec	3568	21.5	22.6	20.9	20.9	—	15.1	16.0	14.6	14.6	—
Computer and office equipment	357	373.0	370.8	358.0	357.7	357.5	145.7	146.5	141.9	144.5	—
Electronic computers	3571	195.1	192.3	180.2	181.2	—	73.4	73.0	73.2	77.1	—
Computer terminals, calculators, and office machines, nec	3575,8,9	61.0	61.0	63.4	63.1	—	23.5	23.4	23.2	22.8	—
Refrigeration and service machinery	358	197.8	196.6	199.5	198.3	—	141.3	140.1	141.8	140.8	—
Refrigeration and heating equipment	3585	135.8	135.2	139.2	137.9	—	102.3	101.6	104.3	103.1	—
Misc. industrial and commercial machinery	359	379.9	379.8	374.6	376.7	—	285.3	285.3	277.8	278.3	—
Carburetors, pistons, rings, valves	3592	23.7	23.8	24.5	24.6	—	18.9	19.2	19.4	19.4	—
Scales, balances, and industrial machinery, nec	3596,9	308.2	308.1	304.7	306.8	—	236.1	235.9	229.9	230.9	—
Electronic and other electrical equipment	36	1,677.5	1,675.0	1,665.6	1,668.5	1,674.6	1,045.7	1,045.3	1,036.1	1,038.1	1,045.9
Electric distribution equipment	361	82.2	81.9	82.6	82.8	—	54.8	55.1	56.3	56.7	—
Transformers, except electronic	3612	37.7	37.7	38.0	38.3	—	25.0	25.3	26.9	27.2	—
Switchgear and switchboard apparatus	3613	44.5	44.2	44.6	44.5	—	29.8	29.8	29.4	29.5	—
Electrical industrial apparatus	362	151.1	151.0	145.5	145.2	—	103.9	103.7	99.7	99.4	—
Motors and generators	3621	74.4	74.5	71.0	70.6	—	56.9	56.9	54.7	54.3	—
Relays and industrial controls	3625	56.9	57.0	55.4	55.5	—	33.0	32.9	31.8	31.9	—
Household appliances	363	117.2	116.9	119.7	120.4	—	93.9	93.8	99.5	100.3	—
Household refrigerators and freezers	3632	26.6	26.6	27.7	27.5	—	21.4	21.5	24.5	24.2	—
Household laundry equipment	3633	16.5	16.6	18.4	18.5	—	13.8	14.0	16.6	16.9	—
Electric housewares and fans	3634	24.6	23.9	22.3	22.7	—	18.5	17.7	16.6	17.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment	364	181.6	180.5	176.6	176.9	—	130.2	130.0	127.0	127.3	—
Electric lamps	3641	19.5	19.4	19.0	19.0	—	15.5	15.5	14.3	14.3	—
Current-carrying wiring devices	3643	61.5	61.0	55.9	56.4	—	40.7	40.5	38.7	39.1	—
Noncurrent-carrying wiring devices	3644	19.8	20.0	20.0	19.9	—	14.9	15.1	15.0	14.9	—
Residential lighting fixtures	3645	21.6	21.8	21.6	21.7	—	16.4	16.5	16.0	16.0	—
Household audio and video equipment	365	82.8	82.8	82.8	83.1	—	52.8	52.7	53.9	54.6	—
Household audio and video equipment	3651	55.8	55.7	53.8	54.0	—	32.5	32.3	31.8	32.1	—
Communications equipment	366	276.3	277.1	274.7	275.1	—	127.0	126.7	120.3	120.8	—
Telephone and telegraph apparatus	3661	124.4	124.1	122.8	123.3	—	56.1	54.6	54.9	54.9	—
Electronic components and accessories	367	642.0	639.9	641.7	642.3	645.5	380.4	380.0	378.1	376.8	—
Electron tubes	3671	19.8	19.8	19.3	19.5	—	14.3	14.4	14.7	14.9	—
Semiconductors and related devices	3674	274.0	271.6	269.7	270.6	—	119.0	118.3	112.3	111.6	—
Electronic components, nec	3679	145.0	144.9	143.0	142.5	—	98.5	98.1	97.0	96.6	—
Misc. electrical equipment and supplies	369	144.3	144.9	142.0	142.7	—	102.7	103.3	101.3	102.2	—
Storage batteries	3691	26.0	26.0	26.8	26.8	—	20.4	20.3	21.2	21.5	—
Engine electrical equipment	3694	63.3	63.6	61.7	61.9	—	48.3	48.5	46.8	46.9	—
Transportation equipment	37	1,891.6	1,893.9	1,837.0	1,841.0	1,841.4	1,254.4	1,256.9	1,218.2	1,225.7	1,228.0
Motor vehicles and equipment	371	999.7	1,002.3	1,001.1	1,006.8	1,010.1	761.2	764.8	763.5	771.6	775.2
Motor vehicles and car bodies	3711	348.9	348.9	339.7	341.3	—	249.7	250.5	239.4	242.4	—
Truck and bus bodies	3713	42.9	43.3	45.3	45.6	—	33.9	34.3	36.0	36.3	—
Motor vehicle parts and accessories	3714	548.3	550.2	553.6	557.1	—	429.3	431.4	437.9	442.7	—
Truck trailers	3715	39.7	40.0	42.0	42.1	—	31.9	32.1	33.1	32.9	—
Aircraft and parts	372	522.9	520.8	471.6	469.5	466.1	262.1	259.6	228.6	226.7	—
Aircraft	3721	268.0	267.3	239.0	238.2	—	113.0	112.0	97.0	96.4	—
Aircraft engines and engine parts	3724	103.5	103.5	97.6	97.6	—	52.0	51.8	47.2	47.1	—
Aircraft parts and equipment, nec	3728	151.4	150.0	135.0	133.7	—	97.1	95.8	84.4	83.2	—
Ship and boat building and repairing	373	166.7	166.8	165.5	165.3	—	126.1	126.2	121.9	123.3	—
Ship building and repairing	3731	105.8	105.5	99.5	99.1	—	75.6	75.1	67.1	68.2	—
Boat building and repairing	3732	60.9	61.3	66.0	66.2	—	50.5	51.1	54.8	55.1	—
Railroad equipment	374	37.4	37.6	33.5	32.8	—	27.1	27.0	23.6	23.1	—
Guided missiles, space vehicles, and parts	376	89.4	89.0	85.8	87.0	—	23.4	23.3	22.1	22.2	—
Guided missiles and space vehicles	3761	61.4	61.1	59.2	60.6	—	14.5	14.4	13.4	13.5	—
Miscellaneous transportation equipment	379	53.9	55.7	56.6	56.6	—	39.4	40.8	42.6	42.5	—
Travel trailers and campers	3792	21.8	22.4	23.2	23.1	—	18.4	19.0	19.8	19.7	—
Instruments and related products	38	853.5	850.3	829.9	832.1	832.5	426.9	426.4	422.4	422.0	419.9
Search and navigation equipment	381	158.5	157.5	151.9	151.4	—	43.3	42.7	39.5	38.7	—
Measuring and controlling devices	382	298.7	297.3	292.5	294.3	—	151.8	151.7	146.6	146.6	—
Environmental controls	3822	38.5	38.2	38.4	38.6	—	26.8	26.5	25.0	24.8	—
Process control instruments	3823	65.7	65.8	63.6	63.9	—	32.9	33.3	32.7	32.8	—
Instruments to measure electricity	3825	75.3	74.2	72.9	73.6	—	30.1	29.9	27.9	28.1	—
Medical instruments and supplies	384	277.3	276.7	275.4	276.1	—	165.8	165.9	163.9	164.1	—
Surgical and medical instruments	3841	111.0	111.0	110.4	110.9	—	71.9	71.7	70.9	71.3	—
Surgical appliances and supplies	3842	94.8	95.1	95.7	95.8	—	58.8	59.3	58.9	58.5	—
Ophthalmic goods	385	34.4	34.7	32.6	32.7	—	24.2	24.4	23.2	23.2	—
Photographic equipment and supplies	386	78.0	77.5	71.2	71.3	—	36.4	36.2	44.0	44.2	—
Watches, clocks, watchcases, and parts	387	6.6	6.6	6.3	6.3	—	5.4	5.5	5.2	5.2	—
Miscellaneous manufacturing industries	39	389.2	384.9	393.6	392.2	387.3	271.3	267.4	274.2	271.6	268.4
Jewelry, silverware, and plated ware	391	52.0	52.0	50.6	50.6	—	36.0	35.6	35.1	34.9	—
Jewelry, precious metal	3911	38.8	38.6	38.2	38.1	—	26.4	26.0	26.0	25.8	—
Musical instruments	393	16.2	16.4	16.6	16.7	—	13.0	13.1	13.4	13.5	—
Toys and sporting goods	394	100.4	99.2	102.8	103.1	—	68.0	66.8	69.7	69.6	—
Dolls, games, toys, and children's vehicles	3942.4	32.4	31.7	32.1	32.2	—	21.3	20.5	21.1	21.0	—
Sporting and athletic goods, nec	3949	68.0	67.5	70.7	70.9	—	46.7	46.3	48.6	48.6	—
Pens, pencils, office, and art supplies	395	30.0	30.1	29.6	29.4	—	20.8	21.0	20.5	20.2	—
Costume jewelry and notions	396	22.1	21.3	20.7	20.5	—	16.0	15.3	15.3	15.2	—
Costume jewelry	3961	12.6	11.8	11.6	11.5	—	9.3	8.5	8.5	8.4	—
Miscellaneous manufactures	399	168.5	165.9	173.3	171.9	—	117.5	115.6	120.2	118.2	—
Signs and advertising specialties	3993	74.1	74.0	76.5	76.2	—	48.2	48.1	49.1	48.5	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods		7,566	7,540	7,444	7,426	7,398	5,251	5,228	5,160	5,142	5,120
Food and kindred products	20	1,697.9	1,683.5	1,709.4	1,693.5	1,677.9	1,265.5	1,251.3	1,281.9	1,266.7	1,253.0
Meat products	201	503.1	502.7	503.3	505.9	—	430.3	429.2	428.9	431.9	—
Meat packing plants	2011	151.7	151.5	152.1	153.1	—	127.4	127.0	127.7	128.6	—
Sausages and other prepared meats	2013	100.3	100.2	101.8	103.2	—	79.5	79.3	81.4	82.5	—
Poultry slaughtering and processing	2015	251.1	251.0	249.4	249.6	—	223.4	222.9	219.8	220.8	—
Dairy products	202	140.1	139.3	140.2	140.7	—	95.6	95.4	96.6	97.5	—
Cheese, natural and processed	2022	39.5	39.3	39.0	39.3	—	31.9	32.2	32.1	32.6	—
Fluid milk	2026	62.6	62.1	62.2	62.3	—	37.3	36.6	37.3	37.6	—
Preserved fruits and vegetables	203	224.8	215.1	239.9	224.8	—	188.5	178.7	203.2	187.9	—
Canned specialties	2032	17.2	17.1	15.9	15.0	—	13.7	13.5	12.9	11.9	—
Canned fruits and vegetables	2033	63.1	57.2	75.4	65.1	—	52.0	46.1	64.7	54.1	—
Frozen fruits and vegetables	2037	48.5	47.1	54.2	51.5	—	42.1	40.9	47.6	45.0	—
Grain mill products	204	125.3	125.7	123.1	122.9	—	88.4	89.4	86.9	86.4	—
Flour and other grain mill products	2041	19.2	19.2	18.7	18.8	—	11.6	11.8	11.4	11.4	—
Prepared feeds, nec	2048	39.7	39.6	39.5	39.7	—	25.7	26.0	25.8	25.9	—
Bakery products	205	209.0	211.1	210.6	212.3	—	142.3	143.7	147.5	148.6	—
Bread, cake, and related products	2051	147.5	147.4	147.1	148.8	—	89.5	89.1	92.7	93.9	—
Cookies, crackers, and frozen bakery products, except bread	2052,3	61.5	63.7	63.5	63.5	—	52.8	54.6	54.8	54.7	—
Sugar and confectionery products	206	104.9	102.5	99.9	99.1	—	83.4	81.4	79.0	78.6	—
Raw cane sugar	2061	6.3	6.2	5.9	5.9	—	5.1	5.1	4.6	4.6	—
Cane sugar refining	2062	3.8	3.8	3.5	3.5	—	2.9	3.0	2.3	2.3	—
Beet sugar	2063	10.4	9.7	12.1	10.7	—	9.3	8.7	10.8	9.6	—
Candy and other confectionery products	2064	57.4	56.1	51.8	52.0	—	45.6	44.3	41.4	41.7	—
Fats and oils	207	34.1	33.9	34.6	34.9	—	23.5	23.2	24.2	24.3	—
Beverages	208	183.3	182.7	185.1	184.2	—	89.1	88.3	91.5	92.1	—
Malt beverages	2082	32.4	31.9	32.2	32.4	—	20.2	19.8	19.8	20.0	—
Bottled and canned soft drinks	2086	97.3	97.5	97.9	98.2	—	39.6	39.5	40.9	41.8	—
Misc. food and kindred products	209	173.3	170.5	172.7	168.7	—	124.4	122.0	124.1	119.4	—
Tobacco products	21	42.3	42.6	40.6	40.8	41.8	33.5	33.5	29.5	29.2	29.9
Cigarettes	211	25.7	25.7	25.5	25.8	—	19.1	19.0	17.0	16.9	—
Textile mill products	22	585.8	583.0	552.6	552.5	549.7	495.0	492.2	468.0	467.6	465.2
Broadwoven fabric mills, cotton	221	69.9	68.9	63.1	62.7	—	62.6	61.7	56.5	56.1	—
Broadwoven fabric mills, synthetics	222	62.5	62.2	58.6	58.9	—	53.2	53.0	49.9	50.1	—
Broadwoven fabric mills, wool	223	11.7	11.7	9.5	9.5	—	9.8	9.8	8.0	8.0	—
Narrow fabric mills	224	21.4	21.3	21.1	21.3	—	17.5	17.4	17.2	17.4	—
Knitting mills	225	152.3	150.9	137.6	136.7	—	128.5	127.0	115.9	115.4	—
Women's hosiery, except socks	2251	16.8	16.9	15.7	15.8	—	14.5	14.5	13.7	14.0	—
Hosiery, nec	2252	36.4	36.2	34.4	34.0	—	31.6	31.4	29.8	29.4	—
Knit outerwear mills	2253	45.4	44.3	37.4	37.1	—	38.4	37.3	31.9	31.7	—
Knit underwear mills	2254	11.1	10.8	9.2	9.2	—	9.9	9.6	8.0	8.0	—
Weft knit fabric mills	2257	21.8	22.0	20.7	20.5	—	18.1	18.2	17.1	17.1	—
Textile finishing, except wool	226	63.3	62.8	60.5	60.9	—	52.1	51.8	50.2	50.3	—
Finishing plants, cotton	2261	29.3	29.3	28.8	29.2	—	24.1	24.1	23.9	24.1	—
Finishing plants, synthetics	2262	20.0	19.5	18.5	18.5	—	16.3	15.9	15.1	15.1	—
Carpets and rugs	227	64.9	65.5	66.5	67.3	—	54.2	54.6	55.5	56.2	—
Yarn and thread mills	228	84.9	85.3	81.9	81.8	—	75.0	75.0	73.1	72.8	—
Yarn spinning mills	2281	61.2	61.8	58.8	58.8	—	54.4	54.8	52.6	52.5	—
Throwing and winding mills	2282	17.0	16.8	16.6	16.4	—	14.6	14.3	14.7	14.5	—
Miscellaneous textile goods	229	54.9	54.4	53.8	53.4	—	42.1	41.9	41.7	41.3	—
Apparel and other textile products	23	731.5	723.5	671.9	665.4	654.8	584.3	578.5	534.0	529.4	520.2
Men's and boys' suits and coats	231	25.5	25.4	22.7	22.7	—	20.4	20.4	18.1	17.9	—
Men's and boys' furnishings	232	175.2	172.4	151.7	148.8	—	146.7	144.4	125.3	122.6	—
Men's and boys' shirts	2321	32.9	32.9	27.2	25.5	—	28.3	28.2	22.6	21.1	—
Men's and boys' trousers and slacks	2325	61.8	60.1	51.3	50.6	—	53.2	51.6	43.4	42.7	—
Men's and boys' work clothing	2326	28.0	28.0	25.4	25.2	—	24.1	24.2	21.8	21.5	—
Women's and misses' outerwear	233	216.9	213.7	198.9	197.3	—	169.2	166.7	153.5	152.8	—
Women's and misses' blouses and shirts	2331	19.3	19.3	17.2	17.2	—	14.2	14.3	12.3	12.2	—
Women's, juniors', and misses' dresses	2335	31.3	31.0	29.6	30.1	—	23.8	23.5	22.8	23.2	—
Women's and misses' suits and coats	2337	18.1	18.1	15.7	14.9	—	13.7	13.7	11.3	10.7	—
Women's and misses' outerwear, nec	2339	148.2	145.3	136.4	135.1	—	117.5	115.2	107.1	106.7	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	29.8	29.5	26.1	25.6	—	23.9	23.6	21.1	20.7	—
Women's and children's underwear	2341	21.8	21.8	18.7	18.6	—	17.4	17.4	14.9	14.9	—
Brassieres, girdles, and allied garments	2342	8.0	7.7	7.4	7.0	—	6.5	6.2	6.2	5.8	—
Girls' and children's outerwear	236	23.4	22.8	20.8	20.5	—	19.0	18.6	17.1	16.9	—
Girls' and children's dresses and blouses	2361	8.7	8.8	7.9	7.9	—	7.7	7.8	6.8	6.8	—
Misc. apparel and accessories	238	30.6	30.1	30.1	29.6	—	23.7	23.8	23.6	23.2	—
Misc. fabricated textile products	239	213.3	213.2	206.5	205.9	—	168.2	168.1	163.4	163.5	—
Curtains and draperies	2391	17.5	17.5	17.6	17.7	—	13.5	13.6	13.9	14.1	—
House furnishings, nec	2392	54.8	55.2	53.2	52.8	—	46.3	46.5	44.9	44.6	—
Automotive and apparel trimmings	2396	62.1	61.3	60.2	60.1	—	48.0	47.6	46.6	46.8	—
Paper and allied products											
Paper mills	262	152.4	152.5	146.2	146.0	—	119.4	119.3	114.1	113.8	—
Paperboard mills	263	47.5	47.3	46.4	46.2	—	36.4	36.3	35.6	35.5	—
Paperboard containers and boxes	265	217.4	217.6	214.0	214.5	—	168.5	168.7	166.5	167.1	—
Corrugated and solid fiber boxes	2653	132.1	132.2	131.2	131.9	—	98.7	98.8	98.6	99.5	—
Sanitary food containers	2656	17.0	17.3	16.4	16.9	—	15.2	15.5	14.8	15.2	—
Folding paperboard boxes	2657	46.7	46.6	45.6	45.4	—	37.9	37.7	36.9	36.6	—
Misc. converted paper products	267	237.6	237.7	236.6	237.2	—	173.6	173.4	170.7	171.8	—
Paper, coated and laminated, nec	2672	45.9	45.7	43.8	43.7	—	22.5	22.1	20.1	19.9	—
Bags: plastics, laminated, and coated	2673	38.9	38.9	37.9	38.0	—	30.4	30.3	29.5	29.8	—
Envelopes	2677	23.6	23.6	24.2	24.2	—	18.1	18.2	18.4	18.5	—
Printing and publishing											
Newspapers	271	443.9	444.6	442.6	445.0	—	147.6	148.8	147.4	149.1	—
Periodicals	272	139.2	139.7	141.0	141.4	—	44.6	44.6	45.6	46.3	—
Books	273	125.3	125.7	121.4	122.5	—	58.4	59.1	55.5	55.9	—
Book publishing	2731	85.7	85.9	84.6	84.9	—	27.4	27.6	26.8	26.7	—
Book printing	2732	39.6	39.8	36.8	37.6	—	31.0	31.5	28.7	29.2	—
Miscellaneous publishing	274	92.6	92.2	91.5	92.8	—	44.6	45.0	44.2	44.6	—
Commercial printing	275	583.8	584.6	577.6	578.2	—	416.3	416.7	408.1	408.8	—
Commercial printing, lithographic	2752	379.8	380.4	374.8	375.3	—	271.2	271.7	265.8	266.2	—
Commercial printing, nec	2759	183.7	183.8	183.0	183.1	—	129.2	129.1	127.0	127.3	—
Manifold business forms	276	40.8	41.0	39.7	39.7	—	27.8	27.8	26.5	26.5	—
Blankbooks and bookbinding	278	63.6	62.9	59.7	60.2	—	48.0	47.7	45.1	45.1	—
Printing trade services	279	50.2	49.7	48.7	48.2	—	33.6	33.1	32.0	31.4	—
Chemicals and allied products											
Industrial inorganic chemicals	281	113.3	113.2	110.7	110.1	—	63.9	64.2	56.4	57.1	—
Industrial inorganic chemicals, nec	2819	68.6	68.5	66.9	66.7	—	36.4	36.4	35.7	35.9	—
Plastics materials and synthetics	282	154.5	154.3	150.1	149.7	—	100.8	100.9	99.1	98.9	—
Plastics materials and resins	2821	78.4	78.4	77.0	76.8	—	47.3	47.5	46.0	45.9	—
Organic fibers, noncellulosic	2824	42.0	42.2	40.4	39.8	—	33.1	33.4	32.0	31.6	—
Drugs	283	283.3	284.3	291.9	293.6	—	127.8	128.4	135.4	136.5	—
Pharmaceutical preparations	2834	222.4	223.2	229.6	230.8	—	102.4	103.2	109.8	110.6	—
Soap, cleaners, and toilet goods	284	155.5	154.1	153.5	154.5	—	96.4	95.9	102.5	102.7	—
Soap and other detergents	2841	39.2	39.4	39.6	40.7	—	21.9	22.9	28.5	29.7	—
Polishing, sanitation, and finishing preparations	2842,3	40.7	40.7	39.5	39.5	—	22.8	22.9	22.7	22.4	—
Toilet preparations	2844	75.6	74.0	74.4	74.3	—	51.7	50.1	51.3	50.6	—
Paints and allied products	285	52.7	52.4	53.0	53.0	—	27.6	27.4	27.8	27.6	—
Industrial organic chemicals	286	137.3	137.0	131.4	130.7	—	79.6	79.9	77.1	76.6	—
Cyclic crudes and intermediates	2865	22.3	22.2	20.6	20.4	—	13.5	13.5	12.2	12.0	—
Industrial organic chemicals, nec	2869	112.7	112.5	108.6	108.0	—	64.4	64.7	63.3	63.0	—
Agricultural chemicals	287	51.7	51.9	50.8	50.5	—	31.3	31.2	30.7	30.3	—
Miscellaneous chemical products	289	93.3	93.6	90.3	90.4	—	57.1	57.4	55.0	55.1	—
Petroleum and coal products											
Petroleum refining	291	95.0	95.0	90.9	90.2	—	62.2	62.1	58.4	57.8	—
Asphalt paving and roofing materials	295	31.0	28.6	32.6	31.6	—	23.3	21.0	25.2	24.1	—
Rubber and misc. plastics products											
Tires and inner tubes	301	77.5	78.0	76.4	76.5	—	57.1	57.6	57.4	58.1	—
Rubber and plastics footwear	302	5.8	5.8	5.4	5.4	—	4.1	4.3	4.0	4.0	—
Hose, belting, gaskets, and packing	305	70.4	70.5	70.3	70.2	—	53.9	54.0	54.1	54.1	—
Rubber and plastics hose and belting	3052	29.6	29.6	29.4	29.5	—	23.1	23.2	23.1	23.1	—
Fabricated rubber products, nec	306	111.9	112.0	111.5	111.2	—	85.8	85.8	85.7	85.8	—
Miscellaneous plastics products, nec	308	744.7	746.6	757.6	758.8	—	582.4	583.8	593.8	593.5	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods—Continued											
Leather and leather products	31	80.1	78.8	72.6	72.3	70.9	60.0	58.5	53.6	53.4	51.9
Leather tanning and finishing	311	11.5	11.6	10.8	10.6	—	9.3	9.5	8.8	8.7	—
Footwear, except rubber	314	34.3	33.6	30.8	30.6	—	27.5	26.8	24.1	24.0	—
Men's footwear, except athletic	3143	19.2	19.0	17.6	17.5	—	14.8	14.6	13.3	13.3	—
Women's footwear, except athletic	3144	8.4	8.3	7.0	7.0	—	6.8	6.7	5.7	5.7	—
Luggage	316	9.1	8.7	7.6	7.7	—	6.5	6.0	5.7	5.7	—
Handbags and personal leather goods	317	8.6	8.4	7.2	7.2	—	5.0	4.7	3.6	3.6	—
Transportation and public utilities		6,713	6,747	6,889	6,905	6,947	5,585	5,615	5,710	5,716	5,757
Transportation		4,379	4,408	4,511	4,518	4,556	—	—	—	—	—
Railroad transportation	40	231.0	230.8	227.7	227.6	227.6	—	—	—	—	—
Class I railroads plus Amtrak ²	4011	205.4	205.2	200.7	200.6	—	—	—	—	—	—
Local and interurban passenger transit	41	489.8	490.6	503.4	503.4	503.5	448.4	448.9	462.0	462.8	—
Local and suburban transportation	411	237.3	237.6	244.5	245.1	—	215.0	215.2	222.1	222.8	—
Taxicabs	412	31.1	31.2	31.7	31.7	—	—	—	—	—	—
Intercity and rural bus transportation	413	27.3	27.6	29.0	28.9	—	24.5	24.4	25.5	25.5	—
School buses	415	159.2	160.1	163.0	163.2	—	—	—	—	—	—
Trucking and warehousing	42	1,782.3	1,779.5	1,860.1	1,845.4	1,840.1	1,563.1	1,560.1	1,633.6	1,619.9	—
Trucking and courier services, except air	421	1,603.8	1,602.0	1,670.6	1,655.2	—	1,412.8	1,411.1	1,475.7	1,460.7	—
Public warehousing and storage	422	173.0	171.9	183.7	184.4	—	145.4	144.0	152.7	153.9	—
Water transportation	44	181.8	177.4	182.7	178.6	175.3	—	—	—	—	—
Water transportation of freight, nec	444	15.4	15.4	15.1	15.0	—	—	—	—	—	—
Water transportation services	449	120.8	117.0	121.5	119.2	—	105.9	101.9	106.5	104.1	—
Transportation by air	45	1,218.1	1,252.8	1,252.6	1,278.6	1,322.2	—	—	—	—	—
Air transportation, scheduled	451	1,039.4	1,072.8	1,065.4	1,091.5	—	—	—	—	—	—
Air transportation, scheduled	4512	541.4	544.9	567.3	569.1	—	—	—	—	—	—
Airports, flying fields, and services	458	131	132	137	137	—	—	—	—	—	—
Pipelines, except natural gas	46	13.8	13.8	12.9	12.9	13.2	11.3	11.2	10.7	10.7	—
Transportation services	47	461.9	463.1	472.0	471.7	473.7	378.1	379.0	387.1	386.8	—
Passenger transportation arrangement	472	220.5	219.8	221.5	220.5	—	185.2	184.2	185.7	184.4	—
Travel agencies	4724	173.0	172.6	173.1	173.1	—	145.4	144.8	145.4	145.0	—
Freight transportation arrangement	473	187.3	189.2	198.7	200.3	—	147.9	149.8	158.5	160.3	—
Communications and public utilities		2,334	2,339	2,378	2,387	2,391	—	—	—	—	—
Communications	48	1,484.3	1,489.2	1,539.7	1,546.8	1,549.0	1,086.7	1,090.9	1,099.7	1,103.6	—
Telephone communications	481	1,015.9	1,019.6	1,060.6	1,065.4	—	719.5	723.0	724.4	727.9	—
Telephone communications, except radio	4813	857.6	860.1	898.1	903.1	—	598.7	600.2	597.4	600.8	—
Radio and television broadcasting	483	247.3	247.0	248.4	248.9	—	202.3	201.7	202.3	202.7	—
Radio broadcasting stations	4832	117.8	117.3	117.1	117.5	—	—	—	—	—	—
Television broadcasting stations	4833	129.5	129.7	131.3	131.4	—	—	—	—	—	—
Cable and other pay television services	484	184.8	186.1	192.4	194.0	—	149.8	151.1	157.6	156.3	—
Electric, gas, and sanitary services	49	849.8	850.0	838.6	840.6	841.7	683.6	683.0	670.5	673.2	—
Electric services	491	362.1	362.3	359.7	357.8	—	294.2	294.6	286.9	284.7	—
Gas production and distribution	492	135.0	134.9	129.7	129.1	—	104.6	104.4	102.2	102.1	—
Combination utility services	493	157.5	157.5	150.1	153.1	—	124.3	124.1	117.1	122.2	—
Sanitary services	495	162.1	162.1	165.5	167.0	—	134.3	133.7	137.8	137.7	—
Wholesale trade		6,904	6,899	7,079	7,080	7,076	5,536	5,531	5,671	5,668	5,659
Durable goods	50	4,072	4,074	4,182	4,190	4,202	3,213	3,214	3,303	3,309	—
Motor vehicles, parts, and supplies	501	520.9	521.8	534.9	534.0	—	413.1	413.3	422.8	422.8	—
Automobiles and other motor vehicles	5012	153.2	154.0	160.6	160.6	—	—	—	—	—	—
Motor vehicle supplies and new parts	5013	288.6	288.6	293.9	293.8	—	—	—	—	—	—
Furniture and home furnishings	502	169.6	169.6	174.2	174.4	—	136.2	136.4	138.2	138.0	—
Furniture	5021	82.2	81.7	83.9	83.6	—	—	—	—	—	—
Home furnishings	5023	87.4	87.9	90.3	90.8	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Wholesale trade—Continued											
Durable goods—Continued											
Lumber and other construction materials	503	268.8	266.0	281.5	280.9	—	223.5	220.3	234.3	233.5	—
Lumber, plywood, and millwork	5031	135.6	135.3	141.7	141.2	—	—	—	—	—	—
Construction materials, nec	5039	40.7	40.3	43.8	43.8	—	—	—	—	—	—
Professional and commercial equipment	504	940.1	944.6	997.1	1,004.5	—	732.3	737.9	796.1	802.4	—
Office equipment	5044	204.9	206.1	211.1	211.7	—	—	—	—	—	—
Computers, peripherals and software	5045	397.1	398.9	427.6	432.3	—	—	—	—	—	—
Medical and hospital equipment	5047	194.2	195.3	207.0	208.5	—	156.8	157.6	165.2	166.7	—
Metals and minerals, except petroleum	505	153.0	153.4	156.0	156.5	—	123.2	123.5	125.1	125.1	—
Electrical goods	506	550.9	550.9	559.4	561.0	—	402.2	402.4	398.4	398.3	—
Electrical apparatus and equipment	5063	231.8	232.1	242.0	242.7	—	—	—	—	—	—
Electrical appliances, television and radio sets	5064	48.5	48.9	51.4	51.3	—	—	—	—	—	—
Electronic parts and equipment	5065	270.6	269.9	266.0	267.0	—	—	—	—	—	—
Hardware, plumbing, and heating equipment	507	306.6	306.3	308.5	308.3	—	249.9	249.6	252.2	251.3	—
Hardware	5072	111.6	111.4	109.7	109.4	—	—	—	—	—	—
Plumbing and hydronic heating supplies	5074	119.7	120.2	123.3	123.4	—	—	—	—	—	—
Machinery, equipment, and supplies	508	831.6	833.1	839.6	838.5	—	664.2	665.1	670.2	668.5	—
Construction and mining machinery	5082	92.0	92.9	94.2	93.7	—	—	—	—	—	—
Farm and garden machinery	5083	119.5	119.1	122.2	121.2	—	—	—	—	—	—
Industrial machinery and equipment	5084	335.6	335.6	332.3	332.4	—	—	—	—	—	—
Industrial supplies	5085	155.6	155.6	158.0	158.5	—	—	—	—	—	—
Misc. wholesale trade durable goods	509	330.1	328.5	330.4	332.0	—	268.0	265.6	266.1	268.6	—
Scrap and waste materials	5093	120.9	119.7	120.8	122.1	—	—	—	—	—	—
Nondurable goods											
Paper and paper products	511	2,832	2,825	2,897	2,890	2,874	2,323	2,317	2,368	2,359	—
Stationery and office supplies	5112	170.0	169.2	171.6	173.2	—	238.1	237.1	239.7	239.1	—
Drugs, proprietaries, and sundries	512	245.0	247.4	263.3	264.4	—	203.9	206.4	217.8	218.0	—
Apparel, piece goods, and notions	513	230.2	226.7	227.3	227.3	—	187.5	184.1	183.6	183.5	—
Groceries and related products	514	936.2	937.4	948.7	944.9	—	785.8	787.1	797.0	795.1	—
Groceries, general line	5141	288.3	287.1	288.3	288.8	—	—	—	—	—	—
Meats and meat products	5147	57.4	57.7	58.0	58.3	—	—	—	—	—	—
Fresh fruits and vegetables	5148	109.1	106.1	105.7	101.6	—	—	—	—	—	—
Farm-product raw materials	515	110.0	108.5	118.9	114.4	—	89.8	87.8	97.9	92.9	—
Chemicals and allied products	516	156.8	156.2	161.0	161.9	—	113.8	113.8	114.8	115.3	—
Petroleum and petroleum products	517	154.9	155.8	152.4	152.6	—	127.7	128.4	125.0	125.2	—
Petroleum bulk stations and terminals	5171	63.9	64.1	62.2	62.0	—	—	—	—	—	—
Petroleum products, nec	5172	91.0	91.7	90.2	90.6	—	—	—	—	—	—
Beer, wine, and distilled beverages	518	157.5	157.9	166.8	167.4	—	127.6	128.1	133.6	133.9	—
Beer and ale	5181	99.5	99.7	103.3	103.2	—	—	—	—	—	—
Wine and distilled beverages	5182	58.0	58.2	63.5	64.2	—	—	—	—	—	—
Misc. wholesale trade nondurable goods	519	556.1	550.1	566.8	566.4	—	448.3	443.7	458.3	455.5	—
Farm supplies	5191	161.8	159.9	165.3	162.1	—	—	—	—	—	—
Retail trade		22,808	23,174	22,883	23,241	23,599	20,060	20,407	20,126	20,486	20,827
Building materials and garden supplies	52	952.7	951.5	994.8	994.8	991.9	790.9	790.3	831.4	830.0	—
Lumber and other building materials	521	579.4	577.6	612.0	612.7	—	488.8	487.4	521.6	521.6	—
Paint, glass, and wallpaper stores	523	64.2	64.3	68.2	68.4	—	48.3	48.3	50.6	50.6	—
Hardware stores	525	167.8	169.1	168.6	170.3	—	139.1	140.3	140.3	142.0	—
Retail nurseries and garden stores	526	95.8	95.1	100.0	98.9	—	79.0	78.4	83.2	82.0	—
General merchandise stores	53	2,974.5	3,062.2	2,795.2	2,966.2	3,085.4	2,783.9	2,866.7	2,621.5	2,796.5	—
Department stores	531	2,652.6	2,718.7	2,491.0	2,644.3	2,742.9	2,506.1	2,568.5	2,356.3	2,513.6	—
Variety stores	533	127.7	135.8	119.0	126.5	—	109.4	116.3	102.5	109.7	—
Miscellaneous general merchandise stores	539	194.2	207.7	185.2	195.4	—	168.4	181.9	162.7	173.2	—
Food stores	54	3,521.9	3,551.6	3,485.5	3,512.2	3,548.0	3,188.2	3,220.1	3,155.0	3,177.9	—
Grocery stores	541	3,085.0	3,100.2	3,056.1	3,079.1	—	2,813.9	2,831.5	2,787.0	2,804.0	—
Meat and fish markets	542	52.9	55.4	48.1	48.8	—	—	—	—	—	—
Dairy products stores	545	13.9	14.7	14.7	15.5	—	—	—	—	—	—
Retail bakeries	546	209.6	213.5	205.7	207.5	—	182.5	186.0	178.5	180.5	—
Automotive dealers and service stations	55	2,359.6	2,359.0	2,425.8	2,421.3	2,421.4	1,956.0	1,952.8	2,010.0	2,008.2	—
New and used car dealers	551	1,054.6	1,055.6	1,095.0	1,095.8	1,095.4	885.2	884.8	918.5	919.2	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Retail trade—Continued											
Automotive dealers and service stations—Continued											
Auto and home supply stores	553	406.2	403.4	408.9	407.3	—	306.2	303.3	321.1	321.3	—
Gasoline service stations	554	693.8	695.9	702.9	700.4	—	600.4	601.8	594.6	593.1	—
Automotive dealers, nec	559	9.6	9.6	10.2	9.9	—	7.9	7.8	8.5	8.2	—
Apparel and accessory stores											
Men's and boys' clothing stores	561	83.8	88.3	77.4	79.6	—	68.3	72.7	62.4	64.7	—
Women's clothing stores	562	279.6	291.0	281.8	294.1	—	232.9	243.5	230.9	243.4	—
Family clothing stores	565	418.6	441.7	410.0	443.0	—	377.4	400.0	362.8	393.4	—
Shoe stores	566	218.7	224.2	221.4	227.0	—	173.4	178.3	176.3	180.6	—
Furniture and home furnishings stores											
Furniture and home furnishings stores	571	544.5	553.7	555.9	564.6	—	445.8	454.0	454.8	464.1	—
Furniture stores	5712	313.7	316.5	325.0	327.6	—	—	—	—	—	—
Household appliance stores	572	67.9	69.2	67.7	68.8	—	54.8	56.1	55.2	56.0	—
Radio, television, and computer stores	573	454.7	470.6	474.5	483.1	—	383.0	399.0	397.6	408.9	—
Radio, television, and electronic stores	5731	197.9	203.6	206.1	212.4	—	166.8	172.2	171.5	178.3	—
Record and prerecorded tape stores	5735	89.5	96.8	90.9	94.2	—	76.9	84.8	76.3	81.1	—
Eating and drinking places	58	7,736.4	7,808.5	7,866.7	7,868.1	7,906.3	6,932.8	6,997.3	7,059.4	7,063.7	—
Miscellaneous retail establishments											
Drug stores and proprietary stores	591	657.1	666.0	685.3	690.9	—	548.0	556.0	591.1	597.3	—
Liquor stores	592	112.1	114.2	111.0	112.3	—	—	—	—	—	—
Used merchandise stores	593	122.0	123.4	128.5	129.5	—	101.7	102.9	107.2	108.6	—
Miscellaneous shopping goods stores	594	1,084.1	1,159.7	1,065.6	1,120.8	—	918.7	992.0	898.1	952.1	—
Sporting goods and bicycle shops	5941	197.8	204.6	198.6	203.8	—	—	—	—	—	—
Book stores	5942	143.4	154.5	143.8	148.6	—	—	—	—	—	—
Stationery stores	5943	97.0	98.1	96.0	96.4	—	—	—	—	—	—
Jewelry stores	5944	152.0	161.6	152.6	156.9	—	—	—	—	—	—
Gift, novelty, and souvenir shops	5947	248.1	260.5	248.0	255.1	—	—	—	—	—	—
Sewing, needlework, and piece goods	5949	48.6	49.7	46.9	47.8	—	—	—	—	—	—
Nonstore retailers	596	381.1	378.4	364.8	383.1	—	325.5	324.0	311.3	328.2	—
Catalog and mail-order houses	5961	262.3	260.1	247.8	266.2	—	—	—	—	—	—
Merchandising machine operators	5962	67.7	67.4	67.6	67.7	—	—	—	—	—	—
Fuel dealers	598	97.7	99.1	98.4	100.2	—	80.6	81.7	80.8	82.4	—
Retail stores, nec	599	542.6	556.4	568.3	573.0	—	446.0	458.6	465.8	468.9	—
Florists, tobacco stores, and newsstands	5992,3,4	151.9	162.6	158.0	161.2	—	—	—	—	—	—
Optical goods stores	5995	71.0	71.3	73.7	74.5	—	56.5	57.1	57.6	57.6	—
Miscellaneous retail stores, nec	5999	319.7	322.5	336.6	337.3	—	261.3	263.8	274.4	274.3	—
Finance, insurance, and real estate³		7,500	7,522	7,646	7,656	7,671	5,506	5,518	5,575	5,585	5,596
Finance		3,645	3,664	3,706	3,718	3,734	—	—	—	—	—
Depository institutions											
Commercial banks	602	1,462.5	1,468.5	1,457.5	1,462.1	1,469.3	1,034.4	1,038.9	1,032.0	1,038.0	—
State commercial banks	6022	580.6	587.4	592.4	593.2	—	416.4	422.2	425.0	425.8	—
National and commercial banks, nec	6021,9	881.9	881.1	865.1	868.9	—	618.0	616.7	607.0	612.2	—
Savings institutions	603	256.3	256.6	252.9	251.8	251.6	—	—	—	—	—
Federal savings institutions	6035	149.9	149.8	146.8	146.4	—	—	—	—	—	—
Savings institutions, except federal	6036	106.4	106.8	106.1	105.4	—	—	—	—	—	—
Credit unions	606	180.8	181.6	187.5	188.4	—	144.1	145.0	149.2	149.9	—
Nondepository institutions											
Personal credit institutions	614	187.0	188.2	195.3	194.7	—	106.4	106.5	104.5	104.1	—
Business credit institutions	615	127.5	129.3	133.2	133.5	—	—	—	—	—	—
Mortgage bankers and brokers	616	354.3	360.0	355.7	355.7	355.7	—	—	—	—	—
Security and commodity brokers											
Security brokers and dealers	621	490.7	492.7	516.1	519.9	—	—	—	—	—	—
Commodity contracts brokers, dealers, and exchanges	622,3	26.3	26.4	25.0	25.4	—	—	—	—	—	—
Security and commodity services	628	140.9	141.1	149.5	151.2	—	95.0	96.0	100.6	101.3	—
Holding and other investment offices											
Holding offices	671	109.9	110.9	117.6	117.5	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999 ^P	Dec. 1999 ^P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999 ^P	Dec. 1999 ^P
Finance, insurance, and real estate—Continued											
Insurance	63,64	2,375	2,379	2,409	2,411	2,415	—	—	—	—	—
Insurance carriers	63	1,620.0	1,623.8	1,636.8	1,636.5	1,638.2	1,234.7	1,236.7	1,249.0	1,249.5	—
Life insurance	631	536.4	538.8	549.7	551.1	—	362.2	363.2	372.0	373.9	—
Medical service and health insurance	632	362.4	364.0	367.9	368.5	—	290.8	291.3	293.8	294.4	—
Hospital and medical service plans	6324	294.9	296.2	300.9	302.1	—	240.9	241.4	243.4	244.1	—
Fire, marine, and casualty insurance	633	552.7	551.5	555.6	555.8	—	445.0	444.5	449.7	450.4	—
Title insurance	636	91.5	92.2	86.7	84.1	—	—	—	—	—	—
Insurance agents, brokers, and service	64	754.9	755.4	772.2	774.0	776.4	—	—	—	—	—
Real estate	65	1,480	1,479	1,531	1,527	1,522	—	—	—	—	—
Real estate operators and lessors	651	586.3	586.6	582.6	582.0	—	—	—	—	—	—
Real estate agents and managers	653	731.7	734.7	777.8	778.2	—	—	—	—	—	—
Subdividers and developers	655	122.6	117.7	131.4	127.8	—	—	—	—	—	—
Services		38,101	38,070	39,671	39,584	39,534	33,228	33,173	34,530	34,433	34,364
Agricultural services	07	727.4	682.0	794.4	774.7	711.8	615.2	571.6	671.1	652.0	—
Veterinary services	074	195.0	195.9	203.3	203.7	—	164.6	165.4	171.3	171.8	—
Landscape and horticultural services	078	478.5	432.0	537.6	518.4	—	405.9	361.2	455.9	437.0	—
Hotels and other lodging places	70	1,713.5	1,705.2	1,810.3	1,740.1	1,725.4	—	—	—	—	—
Hotels and motels	701	1,666.5	1,661.9	1,756.7	1,692.2	—	1,458.2	1,456.6	1,540.2	1,478.4	—
Personal services	72	1,167.8	1,184.7	1,182.2	1,184.1	1,201.0	—	—	—	—	—
Laundry, cleaning, and garment services	721	436.3	438.0	435.1	436.6	—	384.3	385.2	382.4	383.8	—
Photographic studios, portrait	722	58.4	55.3	61.6	62.0	—	—	—	—	—	—
Beauty shops	723	417.8	420.3	422.0	423.2	—	368.2	370.9	373.4	373.9	—
Funeral service and crematories	726	99.7	99.4	99.1	99.8	—	—	—	—	—	—
Miscellaneous personal services	729	141.1	157.0	151.0	149.2	—	116.9	130.7	125.5	124.1	—
Business services	73	8,907.3	8,902.9	9,465.8	9,466.3	9,484.9	7,888.3	7,881.2	8,374.7	8,370.2	—
Advertising	731	273.3	274.3	285.7	288.9	—	196.2	196.1	202.8	205.5	—
Advertising agencies	7311	179.4	180.1	188.2	190.6	—	—	—	—	—	—
Credit reporting and collection	732	147.3	148.3	151.4	152.6	—	—	—	—	—	—
Mailing, reproduction, and stenographic services	733	322.0	322.0	325.6	327.9	—	—	—	—	—	—
Photocopying and duplicating services	7334	82.8	82.4	84.1	85.2	—	69.4	69.2	68.8	69.8	—
Services to buildings	734	962.8	958.4	1,004.1	1,003.9	996.0	859.2	854.3	893.7	893.1	—
Disinfecting and pest control services	7342	87.6	87.0	91.8	91.8	—	70.9	69.8	73.3	73.1	—
Building maintenance services, nec	7349	875.2	871.4	912.3	912.1	—	788.3	784.5	820.4	820.0	—
Miscellaneous equipment rental and leasing	735	259.7	259.7	274.5	272.0	—	206.7	206.2	222.2	219.4	—
Medical equipment rental	7352	39.2	39.9	39.4	39.6	—	29.5	30.4	32.1	32.3	—
Heavy construction equipment rental	7353	50.4	50.4	53.5	52.8	—	42.8	42.6	45.5	45.0	—
Equipment rental and leasing, nec	7359	170.1	169.4	181.6	179.6	—	134.4	133.2	144.6	142.1	—
Personnel supply services	736	3,376.8	3,350.2	3,630.3	3,620.0	3,623.5	—	—	—	—	—
Employment agencies	7361	370.4	375.4	408.1	410.2	—	—	—	—	—	—
Help supply services	7363	3,006.4	2,974.8	3,222.2	3,209.8	3,212.0	2,908.1	2,879.4	3,112.7	3,097.8	—
Computer and data processing services	737	1,678.4	1,693.8	1,815.0	1,830.3	1,843.1	1,346.8	1,361.7	1,447.6	1,463.1	—
Computer programming services	7371	387.1	390.2	410.8	411.9	—	330.7	333.5	344.6	346.3	—
Prepackaged software	7372	262.9	265.6	304.1	308.4	—	—	—	—	—	—
Computer integrated systems design	7373	186.2	187.6	201.3	202.2	—	135.2	137.7	144.5	145.4	—
Data processing and preparation	7374	264.8	268.3	278.7	282.3	—	—	—	—	—	—
Information retrieval services	7375	104.4	106.8	120.1	122.1	—	78.4	81.7	90.0	91.6	—
Computer maintenance and repair	7378	61.3	61.3	62.1	61.3	—	44.9	45.2	47.3	46.9	—
Miscellaneous business services	738	1,887.0	1,896.2	1,979.2	1,970.7	—	1,639.4	1,648.5	1,723.5	1,713.4	—
Detective and armored car services	7381	606.7	609.1	639.0	640.3	—	558.1	560.6	587.7	589.9	—
Security systems services	7382	62.0	62.7	63.0	63.4	—	50.7	51.0	52.8	53.4	—
Photofinishing laboratories	7384	82.6	82.2	85.2	86.1	—	—	—	—	—	—
Auto repair, services, and parking	75	1,157.7	1,157.7	1,195.5	1,195.9	1,195.1	935.1	932.5	977.1	979.7	—
Automotive rentals, without drivers	751	203.0	203.1	209.2	207.9	—	165.8	165.2	169.5	168.7	—
Passenger car rental	7514	132.8	133.1	139.5	138.6	—	109.1	109.0	114.5	113.8	—
Automobile parking	752	74.0	74.1	76.7	76.4	—	64.4	64.5	67.0	66.9	—
Automotive repair shops	753	645.4	645.3	671.2	674.2	—	503.4	501.1	535.1	539.4	—
Automotive and tire repair shops	7532,4	225.5	225.6	235.4	236.2	—	183.1	183.0	190.8	192.0	—
General automotive repair shops	7538	274.6	274.6	285.9	288.0	—	205.9	204.7	225.2	228.0	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Services—Continued											
Auto repair, services, and parking—Continued											
Automotive services, except repair	754	235.3	235.2	238.4	237.4	—	201.5	201.7	205.5	204.7	—
Carwashes	7542	125.4	125.0	137.1	138.0	—	111.3	110.9	121.6	122.5	—
Miscellaneous repair services	76	388.5	389.4	401.6	402.0	402.6	318.0	318.8	329.3	328.9	—
Electrical repair shops	762	114.2	114.7	121.1	121.3	—	—	—	—	—	—
Motion pictures	78	569.0	581.1	601.4	607.6	611.5	475.7	488.4	508.5	512.6	—
Motion picture production and services	781	257.8	258.7	275.9	273.6	—	215.5	216.3	238.1	234.6	—
Motion picture theaters	783	131.4	137.6	135.3	139.4	—	—	—	—	—	—
Video tape rental	784	163.1	167.5	170.0	174.1	—	131.4	135.9	136.5	140.1	—
Amusement and recreation services	79	1,479.6	1,479.4	1,673.0	1,562.5	1,550.8	1,278.4	1,276.2	1,456.6	1,348.5	—
Bowling centers	793	86.1	86.9	86.1	86.4	—	76.9	77.7	76.3	76.7	—
Misc. amusement and recreation services	799	1,069.5	1,078.3	1,242.3	1,140.5	—	920.5	930.4	1,086.8	986.0	—
Physical fitness facilities	7991	179.3	180.3	193.0	194.6	—	158.1	159.9	172.0	174.2	—
Membership sports and recreation clubs	7997	307.8	303.3	352.3	327.0	—	267.5	263.4	308.1	283.3	—
Health services	80	9,902.3	9,914.6	10012.2	10037.4	10054.6	8,765.1	8,774.5	8,867.8	8,889.7	—
Offices and clinics of medical doctors	801	1,831.5	1,837.0	1,878.4	1,887.0	1,894.0	1,505.4	1,509.3	1,548.2	1,553.6	—
Offices and clinics of dentists	802	654.2	658.2	669.7	674.0	—	569.8	573.4	585.9	590.2	—
Offices and clinics of other health practitioners	804	453.5	454.1	454.7	457.4	—	376.4	377.0	378.6	381.0	—
Offices and clinics of chiropractors and optometrists	8041,2	165.2	166.4	166.7	167.9	—	—	—	—	—	—
Nursing and personal care facilities	805	1,760.3	1,758.9	1,757.5	1,758.3	1,762.2	1,582.1	1,580.2	1,580.2	1,580.1	—
Skilled nursing care facilities	8051	1,348.6	1,347.7	1,343.4	1,345.2	—	—	—	—	—	—
Intermediate care facilities	8052	200.4	200.5	201.6	202.2	—	179.9	180.0	179.7	180.4	—
Nursing and personal care, nec	8059	211.3	210.7	212.5	210.9	—	—	—	—	—	—
Hospitals	806	3,952.6	3,954.9	3,979.4	3,981.9	3,988.8	3,619.5	3,622.8	3,643.9	3,649.4	—
General medical and surgical hospitals	8062	3,647.7	3,650.8	3,667.5	3,668.6	—	—	—	—	—	—
Psychiatric hospitals	8063	81.2	81.1	81.3	82.5	—	—	—	—	—	—
Specialty hospitals, excluding psychiatric	8069	223.7	223.0	230.6	230.8	—	—	—	—	—	—
Medical and dental laboratories	807	199.4	200.0	202.1	203.5	—	—	—	—	—	—
Home health care services	808	656.3	653.9	659.1	662.9	658.7	604.5	601.5	606.7	609.0	—
Legal services	81	984.6	988.4	1,005.4	1,010.8	1,013.2	786.5	789.3	801.2	806.5	—
Educational services	82	2,392.6	2,342.0	2,443.8	2,483.4	2,427.6	—	—	—	—	—
Elementary and secondary schools	821	686.0	687.1	715.8	723.3	—	—	—	—	—	—
Colleges and universities	822	1,421.0	1,370.2	1,422.9	1,451.1	—	—	—	—	—	—
Vocational schools	824	92.1	92.3	98.3	100.3	—	—	—	—	—	—
Social services	83	2,705.3	2,714.9	2,826.1	2,849.8	2,856.5	2,344.1	2,351.1	2,436.5	2,457.2	—
Individual and family services	832	730.1	737.2	765.1	772.5	—	634.3	640.4	662.9	669.1	—
Job training and related services	833	369.0	370.3	390.5	391.0	—	319.4	320.1	333.3	333.8	—
Child day care services	835	629.6	629.8	649.4	657.6	657.3	556.9	555.7	570.8	578.7	—
Residential care	836	757.9	760.0	789.8	796.4	800.5	656.4	658.7	683.2	688.4	—
Social services, nec	839	218.7	217.6	231.3	232.3	—	177.1	176.2	186.3	187.2	—
Museums and botanical and zoological gardens	84	91.6	91.6	95.7	93.1	93.4	—	—	—	—	—
Membership organizations	86	2,360.0	2,366.1	2,395.0	2,395.0	2,404.9	—	—	—	—	—
Business associations	861	109.3	110.1	113.4	112.7	—	—	—	—	—	—
Professional organizations	862	62.7	62.8	66.9	66.9	—	45.4	45.6	48.4	48.7	—
Labor organizations	863	143.2	147.3	147.0	145.9	—	—	—	—	—	—
Civic and social associations	864	446.3	447.8	462.4	463.2	—	—	—	—	—	—
Engineering and management services	87	3,261.3	3,277.1	3,472.6	3,485.5	3,504.0	2,483.5	2,488.5	2,587.2	2,596.9	—
Engineering and architectural services	871	918.8	919.1	955.5	959.0	959.6	755.0	754.7	781.7	784.7	—
Engineering services	8711	694.5	692.9	724.2	725.3	—	577.4	575.6	599.2	600.6	—
Architectural services	8712	163.2	164.4	168.7	170.4	—	127.8	128.7	131.9	133.0	—
Surveying services	8713	61.1	61.8	62.6	63.3	—	49.8	50.4	50.6	51.1	—
Accounting, auditing, and bookkeeping	872	635.6	642.0	668.1	670.0	—	445.4	446.8	455.3	459.0	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-12. Employees on nonfarm payrolls by detailed industry—Continued

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Services—Continued											
Engineering and management services—Continued											
Research and testing services	873	624.5	627.7	655.9	659.9	—	478.3	480.1	474.0	476.3	—
Commercial physical research	8731	234.8	235.4	248.7	248.8	—	162.7	162.0	145.7	144.5	—
Commercial nonphysical research	8732	144.0	146.7	149.5	152.5	—	120.1	122.8	123.2	126.3	—
Noncommercial research organizations	8733	145.3	145.3	153.2	154.6	—	113.9	113.7	120.3	121.3	—
Management and public relations	874	1,082.4	1,088.3	1,193.1	1,196.6	1,208.9	804.8	806.9	876.2	876.9	—
Management services	8741	355.8	360.9	391.6	393.6	—	265.5	269.2	289.9	291.3	—
Management consulting services	8742	401.1	401.5	446.6	447.6	—	295.0	293.4	321.5	321.5	—
Public relations services	8743	44.0	44.1	49.3	49.4	—	29.5	29.2	32.6	32.3	—
Services, nec	89	55.1	55.2	58.0	58.1	58.7	43.2	43.4	45.4	45.2	—
Government		20,413	20,342	20,545	20,698	20,679	—	—	—	—	—
Federal Government ⁴		2,717	2,739	2,631	2,640	2,686	—	—	—	—	—
Executive, by agency ⁴		2,655.8	2,677.3	2,569.4	—	—	—	—	—	—	—
Department of Defense		653.7	652.7	630.3	—	—	—	—	—	—	—
Postal Service ⁵		888.2	937.1	863.0	—	—	—	—	—	—	—
Other executive agencies		1,113.9	1,087.5	1,076.1	—	—	—	—	—	—	—
Legislative		30.2	30.2	30.3	—	—	—	—	—	—	—
Judicial		31.1	31.1	31.6	—	—	—	—	—	—	—
Federal Government, except Postal Service		1,828.9	1,801.5	1,768.3	1,764.3	1,759.8	—	—	—	—	—
Federal Government, by industry:											
Manufacturing activities		48.7	48.5	46.9	46.4	—	—	—	—	—	—
Ship building and repairing	3731	21.3	21.2	21.1	20.7	—	—	—	—	—	—
Transportation and public utilities, except Postal Service		13.5	13.5	13.5	13.5	—	—	—	—	—	—
Services		344.4	343.7	344.1	341.8	—	—	—	—	—	—
Hospitals	806	220.5	221.4	216.2	215.9	—	—	—	—	—	—
State government		4,772	4,733	4,843	4,861	4,818	—	—	—	—	—
Construction		86.8	86.9	86.8	86.4	—	—	—	—	—	—
Transportation and public utilities		52.7	52.4	53.6	53.1	—	—	—	—	—	—
Services		2,796.9	2,758.0	2,819.0	2,846.7	—	—	—	—	—	—
Hospitals	806	347.8	348.9	349.0	347.8	—	—	—	—	—	—
Education	82	2,079.8	2,042.1	2,091.5	2,122.9	2,083.2	—	—	—	—	—
Social services		209.8	210.5	211.4	211.3	—	—	—	—	—	—
Services, except hospitals, education, and social services		159.5	156.5	167.1	164.7	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions		1,835.3	1,836.1	1,883.7	1,874.7	—	—	—	—	—	—
State government, except education		2,691.9	2,691.3	2,751.6	2,738.0	2,735.0	—	—	—	—	—
Local government		12,924	12,870	13,071	13,197	13,175	—	—	—	—	—
Transportation and public utilities		450.6	452.4	458.8	459.1	—	—	—	—	—	—
Services		8,673.9	8,656.0	8,776.6	8,897.4	—	—	—	—	—	—
Hospitals	806	639.3	640.7	649.0	649.2	—	—	—	—	—	—
Education	82	7,503.5	7,489.6	7,567.4	7,694.6	7,687.2	—	—	—	—	—
Social services		140.7	141.0	139.6	139.8	—	—	—	—	—	—
Services, except hospitals, education, and social services		390.4	384.7	420.6	413.8	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions		3,799.0	3,762.0	3,835.4	3,840.3	—	—	—	—	—	—
Local government, except education		5,420.0	5,380.8	5,503.4	5,502.2	5,488.2	—	—	—	—	—

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 Data relate to line-haul railroads with operating revenues of \$253.7 million or more in 1993 and to Amtrak.

³ Excludes nonoffice commissioned real estate sales agents.

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 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

B-13. Women employees on nonfarm payrolls by major industry and manufacturing group

(In thousands)

Industry	Sept. 1998	Oct. 1998	Aug. 1999	Sept. 1999	Oct. 1999
Total	61,101	61,716	61,566	62,499	63,105
Total private	50,115	50,337	51,221	51,254	51,461
Goods-producing	6,787	6,739	6,674	6,662	6,651
Mining	83	83	77	76	75
Construction	684	683	721	717	718
Manufacturing	6,020	5,973	5,876	5,869	5,858
Durable goods	2,969	2,958	2,927	2,923	2,929
Lumber and wood products	146.6	146.5	151.8	151.1	151.6
Furniture and fixtures	168.1	168.5	173.1	172.9	174.1
Stone, clay, and glass products	105.7	105.7	103.2	102.4	102.0
Primary metal industries	105.2	104.3	100.9	100.2	100.3
Fabricated metal products	339.6	339.3	337.8	338.6	339.5
Industrial machinery and equipment	473.0	472.1	461.9	461.4	462.7
Electronic and other electrical equipment	695.7	688.5	672.7	675.1	676.4
Transportation equipment	405.9	407.7	405.9	402.5	402.4
Instruments and related products	355.5	353.8	348.5	347.2	346.3
Miscellaneous manufacturing	173.2	171.6	170.8	171.9	173.2
Nondurable goods	3,051	3,015	2,949	2,946	2,929
Food and kindred products	590.0	568.8	582.3	583.5	570.7
Tobacco products	13.8	14.0	11.2	12.8	13.3
Textile mill products	277.4	274.2	258.3	256.6	255.6
Apparel and other textile products	553.6	542.2	483.6	484.0	479.7
Paper and allied products	163.3	162.5	161.8	161.1	160.5
Printing and publishing	703.0	705.2	699.9	698.1	698.9
Chemicals and allied products	336.4	335.2	337.8	337.7	336.9
Petroleum and coal products	24.5	24.5	24.6	24.2	23.7
Rubber and misc. plastics products	345.9	345.7	350.0	349.8	351.0
Leather and leather products	42.8	43.0	39.1	38.5	38.6
Service-producing	54,314	54,977	54,892	55,837	56,454
Transportation and public utilities	2,016	2,034	2,057	2,103	2,113
Wholesale trade	2,111	2,126	2,159	2,170	2,183
Retail trade	11,838	11,866	12,098	12,046	12,040
Finance, insurance, and real estate	4,670	4,688	4,819	4,781	4,776
Services	22,693	22,884	23,414	23,492	23,698
Government	10,986	11,379	10,345	11,245	11,644
Federal	1,134	1,140	1,127	1,124	1,119
State	2,362	2,443	2,282	2,412	2,502
Local	7,490	7,796	6,936	7,709	8,023

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1998 forward are subject to revision.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry

(In thousands)

State and area	Total			Mining			Construction		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Alabama	1,931.3	1,940.0	1,949.0	10.7	10.2	10.2	105.0	108.3	108.3
Birmingham	480.9	482.5	486.1	3.0	2.5	2.5	29.5	30.4	30.4
Huntsville	178.4	179.5	180.2	(1)	(1)	(1)	6.3	6.9	7.0
Mobile	230.2	235.0	235.0	(1)	(1)	(1)	18.8	19.3	19.2
Montgomery	164.2	165.5	169.9	(1)	(1)	(1)	8.8	9.1	9.1
Tuscaloosa	82.2	84.1	84.4	2.8	2.7	2.7	5.4	5.8	5.8
Alaska	269.3	279.4	271.7	10.4	9.2	8.8	13.0	15.3	13.4
Anchorage	130.0	132.8	132.1	2.7	2.4	2.3	6.7	8.1	6.9
Arizona	2,141.2	2,189.3	2,210.8	12.6	9.9	9.9	151.0	159.6	160.7
Phoenix-Mesa	1,506.2	1,529.1	1,544.0	5.6	2.9	3.0	110.1	115.8	116.6
Tucson	334.7	347.7	352.9	2.1	1.9	1.9	20.7	22.5	22.4
Arkansas	1,139.9	1,153.4	1,154.8	3.2	3.1	3.1	48.5	52.3	51.2
Fayetteville-Springdale-Rogers	144.7	149.6	150.6	(1)	(1)	(1)	5.6	5.9	5.9
Fort Smith	98.2	98.6	98.7	.7	.7	.7	4.2	4.4	4.3
Little Rock-North Little Rock	311.7	311.8	312.5	(1)	(1)	(1)	14.6	15.0	14.8
Pine Bluff	36.5	36.6	36.9	(1)	(1)	(1)	1.1	1.0	.9
California	13,854.3	14,121.4	14,222.8	24.7	23.7	23.7	635.0	692.5	688.9
Bakersfield	187.6	192.6	193.3	8.9	8.6	8.7	10.5	10.9	10.8
Fresno	282.3	292.1	291.0	.3	.3	.3	15.0	16.3	16.0
Los Angeles-Long Beach	4,016.0	4,058.5	4,090.2	4.9	4.3	4.3	119.0	127.4	126.5
Modesto	139.8	141.3	142.1	(2)	(2)	(2)	8.4	8.5	8.5
Oakland	996.9	1,018.5	1,026.1	1.7	1.8	1.7	55.9	62.3	60.4
Orange County	1,318.2	1,351.3	1,352.8	.8	.7	.7	65.4	72.5	71.9
Riverside-San Bernardino	899.7	920.0	930.6	1.0	1.0	1.0	60.4	65.8	65.0
Sacramento	661.4	676.9	681.2	.2	.2	.2	38.8	41.9	41.4
Salinas	123.8	128.3	128.8	.1	.1	.1	5.8	6.4	6.5
San Diego	1,121.3	1,131.3	1,137.8	.3	.3	.3	62.9	64.6	64.5
San Francisco	1,032.3	1,037.9	1,044.4	.5	.4	.4	40.5	43.4	43.5
San Jose	962.0	967.2	969.7	.1	.1	.1	43.3	46.5	46.4
Santa Barbara-Santa Maria-Lompoc	157.5	159.3	160.4	.7	.7	.7	7.0	7.2	7.1
Santa Rosa	178.0	183.4	183.3	.5	.5	.5	10.3	11.1	10.9
Stockton-Lodi	175.7	180.2	178.5	.1	.1	.1	8.9	9.6	9.3
Vallejo-Fairfield-Napa	159.6	163.2	163.2	.5	.5	.5	10.7	11.5	11.5
Ventura	257.7	263.0	264.3	1.2	1.2	1.2	13.5	15.5	15.3
Colorado	2,086.4	2,112.4	2,130.2	13.9	13.3	13.3	137.6	144.4	144.4
Boulder-Longmont	167.7	170.8	172.0	(1)	(1)	(1)	7.5	8.3	8.5
Colorado Springs	229.0	231.7	233.7	(1)	(1)	(1)	12.4	13.5	13.2
Denver	1,115.4	1,130.5	1,139.2	6.7	6.0	5.9	73.0	75.5	75.8
Connecticut	1,672.3	1,688.5	1,698.6	.8	.8	.8	60.6	63.6	63.0
Bridgeport	190.1	187.5	189.4	(2)	(2)	(2)	6.8	7.1	7.0
Danbury	89.8	89.6	90.6	(1)	(1)	(1)	4.1	4.1	4.1
Hartford	613.9	612.4	614.4	(1)	(1)	(1)	20.7	21.8	22.1
New Haven-Meriden	259.8	259.2	260.9	(1)	(1)	(1)	10.1	10.2	10.2
New London-Norwich	139.8	141.3	141.8	(1)	(1)	(1)	5.0	5.1	5.0
Stamford-Norwalk	208.0	207.9	208.2	(1)	(1)	(1)	6.1	6.1	6.1
Waterbury	87.5	87.1	87.8	(2)	(2)	(2)	3.6	3.5	3.6
Delaware	406.5	415.7	418.4	.1	.1	.1	22.9	24.8	24.7
Dover	54.8	56.2	56.8	.1	.1	.1	2.6	2.8	2.7
Wilmington-Newark	317.3	323.8	326.6	.2	.2	.2	16.9	18.4	18.4
District of Columbia	618.8	623.4	623.0	.1	.1	.1	8.7	9.1	8.8
Washington PMSA	2,597.5	2,650.6	2,665.6	1.2	1.2	1.3	135.5	142.8	142.0
Florida	6,809.6	6,997.2	7,071.4	6.8	7.0	7.0	360.9	377.4	378.6
Daytona Beach	156.1	159.9	161.1	(2)	(2)	(2)	8.1	8.2	8.1
Fort Lauderdale	656.5	665.9	673.6	.1	.1	.1	35.9	37.1	37.1
Fort Myers-Cape Coral	161.4	163.3	166.5	(2)	(2)	(2)	14.4	14.3	14.4
Gainesville	117.0	120.9	121.7	(2)	(2)	(2)	4.6	4.7	4.8
Jacksonville	540.4	555.6	558.9	(2)	(2)	(2)	29.2	30.0	29.9
Lakeland-Winter Haven	179.3	181.9	183.2	3.2	3.2	3.1	10.2	10.1	10.0
Melbourne-Titusville-Palm Bay	184.8	189.6	191.1	(2)	(2)	(2)	9.8	10.5	10.6
Miami	997.3	1,002.9	1,011.5	.3	.3	.3	35.1	37.4	37.3
Orlando	859.8	889.5	896.5	(2)	(2)	(2)	48.7	51.7	51.6
Pensacola	157.7	162.4	163.4	(2)	(2)	(2)	11.1	12.0	12.0
Sarasota-Bradenton	255.5	261.6	265.5	(2)	(2)	(2)	13.3	14.0	14.1
Tallahassee	156.1	158.8	160.3	(2)	(2)	(2)	6.2	6.2	6.1
Tampa-St. Petersburg-Clearwater	1,154.8	1,199.7	1,215.7	.5	.5	.5	55.8	58.9	58.9
West Palm Beach-Boca Raton	488.3	504.3	513.4	(2)	(2)	(2)	28.1	29.0	29.2

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Alabama	374.8	367.1	366.8	92.8	93.9	93.9	450.1	453.0	461.4
Birmingham	52.4	52.7	52.9	30.7	31.6	31.8	117.7	117.5	118.8
Huntsville	38.4	36.6	36.5	4.0	4.3	4.3	35.9	36.0	36.2
Mobile	28.1	27.0	26.8	13.0	12.8	12.8	61.3	63.4	64.2
Montgomery	18.3	18.1	18.2	6.7	6.9	6.9	39.2	39.4	40.0
Tuscaloosa	12.4	12.6	12.5	2.5	2.6	2.6	19.7	20.3	20.7
Alaska	10.6	13.1	10.1	24.8	26.9	25.9	56.5	57.5	57.4
Anchorage	1.9	2.1	2.0	13.2	14.4	14.3	32.1	31.7	32.4
Arizona	218.2	219.1	220.1	104.0	107.8	108.3	512.7	519.9	530.5
Phoenix-Mesa	170.8	170.3	170.3	77.3	80.8	81.2	362.9	368.8	376.5
Tucson	29.5	30.9	32.3	13.6	13.9	13.9	72.5	71.3	73.0
Arkansas	253.8	251.5	251.7	69.5	70.9	71.1	261.4	262.1	265.4
Fayetteville-Springdale-Rogers	34.1	34.8	35.0	10.1	10.6	10.6	41.5	43.0	43.8
Fort Smith	27.4	27.4	27.4	6.5	6.6	6.7	19.9	20.1	20.4
Little Rock-North Little Rock	33.5	33.3	33.1	21.9	21.9	21.9	72.5	71.9	73.2
Pine Bluff	8.6	8.6	8.7	1.8	1.8	1.8	7.3	7.2	7.4
California	1,959.2	1,956.0	1,948.4	703.4	727.0	728.4	3,198.2	3,188.9	3,255.5
Bakersfield	9.9	10.2	10.1	10.6	11.1	11.1	43.6	44.0	44.4
Fresno	30.5	32.4	30.9	14.4	14.5	14.5	69.1	68.7	69.6
Los Angeles-Long Beach	670.2	656.0	656.3	227.3	235.4	236.0	891.9	893.8	906.8
Modesto	26.9	27.2	26.7	5.5	5.7	6.0	34.9	34.8	35.4
Oakland	121.8	124.5	124.4	63.5	66.2	67.1	225.8	225.7	231.2
Orange County	239.1	239.9	240.0	47.3	49.6	49.5	327.4	325.9	328.5
Riverside-San Bernardino	112.9	117.4	117.6	46.8	48.4	48.8	230.1	229.1	234.6
Sacramento	46.5	47.0	46.8	26.2	26.9	27.0	143.5	142.3	145.1
Salinas	9.5	9.9	10.0	5.6	5.7	5.8	32.6	33.3	33.8
San Diego	127.9	126.0	126.2	45.7	46.6	47.1	253.2	253.7	258.3
San Francisco	78.4	77.0	77.0	81.6	80.9	81.1	217.5	217.5	222.2
San Jose	259.0	253.7	252.8	29.0	29.8	30.1	188.4	184.1	186.7
Santa Barbara-Santa Maria-Lompoc	17.9	17.8	17.8	5.2	5.5	5.6	38.3	39.2	39.6
Santa Rosa	28.5	29.9	29.7	6.8	7.0	7.1	43.8	44.3	44.6
Stockton-Lodi	23.7	26.4	24.7	12.2	13.1	12.6	42.2	42.1	42.6
Vallejo-Fairfield-Napa	19.6	20.1	20.0	6.7	6.7	6.4	40.8	41.4	41.9
Ventura	34.0	35.6	35.6	10.3	10.3	10.3	61.7	61.3	62.8
Colorado	206.9	205.3	205.7	132.4	133.8	134.3	505.9	511.8	518.7
Boulder-Longmont	32.4	32.1	32.0	4.3	4.7	4.6	36.8	35.2	35.9
Colorado Springs	27.2	27.4	27.5	12.0	12.0	11.8	52.5	52.3	52.9
Denver	92.8	91.8	91.7	94.1	96.0	96.7	267.5	271.4	274.5
Connecticut	277.6	272.0	272.5	76.7	77.0	77.5	363.8	361.0	367.3
Bridgeport	38.8	37.3	37.7	7.2	7.0	7.0	42.6	41.5	42.5
Danbury	19.4	18.5	18.7	3.0	3.0	3.0	22.7	22.2	22.7
Hartford	95.9	93.8	93.8	27.1	27.2	27.5	125.8	125.0	126.9
New Haven-Meriden	40.3	40.0	40.1	16.9	16.5	16.5	54.6	54.5	55.1
New London-Norwich	24.0	24.0	23.9	6.6	6.9	6.8	28.9	28.6	29.3
Stamford-Norwalk	27.0	26.9	26.5	10.6	10.0	10.1	45.1	43.2	44.0
Waterbury	18.5	18.6	18.6	3.7	3.7	3.8	18.9	18.6	19.1
Delaware	60.5	59.2	59.4	17.0	17.9	18.2	88.8	91.1	91.9
Dover	6.3	6.3	6.3	2.0	2.1	2.1	13.1	13.6	13.8
Wilmington-Newark	45.8	45.1	44.9	14.6	15.4	15.7	64.2	64.5	65.6
District of Columbia	12.5	12.3	12.2	15.8	15.7	15.7	49.4	49.4	49.6
Washington PMSA	104.3	106.6	106.9	120.1	125.0	124.8	484.5	482.3	491.4
Florida	500.0	496.2	499.2	342.5	356.1	358.3	1,720.0	1,729.6	1,767.9
Daytona Beach	14.3	14.8	14.8	4.9	5.1	5.2	42.6	42.7	43.1
Fort Lauderdale	40.1	39.6	39.6	30.5	30.8	31.3	185.6	185.9	190.3
Fort Myers-Cape Coral	7.1	7.3	7.3	7.5	7.9	7.9	45.1	45.1	46.7
Gainesville	5.2	5.2	5.2	2.4	2.6	2.6	24.3	24.4	25.0
Jacksonville	40.4	41.7	42.0	37.5	38.0	38.4	130.6	131.5	133.9
Lakeland-Winter Haven	20.8	20.3	20.6	9.2	9.1	9.1	50.3	50.9	51.6
Melbourne-Titusville-Palm Bay	27.1	26.7	26.7	5.8	6.2	6.3	44.3	45.0	45.9
Miami	75.1	76.1	75.7	87.8	90.8	90.9	262.1	259.6	265.3
Orlando	55.0	54.3	54.5	43.0	44.8	45.0	210.7	215.6	219.9
Pensacola	10.5	9.7	9.8	7.8	8.0	8.0	41.1	42.4	43.2
Sarasota-Bradenton	21.5	22.4	22.9	5.2	5.1	5.1	61.3	60.8	62.5
Tallahassee	4.9	4.9	4.9	4.2	4.2	4.2	31.5	31.7	32.5
Tampa-St. Petersburg-Clearwater	89.6	90.2	90.4	50.5	53.6	54.0	266.2	265.2	271.2
West Palm Beach-Boca Raton	32.9	31.7	32.4	16.7	17.1	17.1	123.0	126.0	130.3

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Alabama	87.7	89.9	90.6	456.5	462.6	461.2	353.7	355.0	356.6
Birmingham	35.6	36.9	37.4	143.8	143.2	144.1	68.2	67.7	68.2
Huntsville	4.7	4.7	4.7	50.4	52.5	52.8	38.7	38.5	38.7
Mobile	9.9	10.4	10.4	63.5	65.9	65.4	35.6	36.2	36.2
Montgomery	10.0	10.1	10.2	44.0	46.6	47.0	37.2	38.3	38.5
Tuscaloosa	2.4	2.6	2.6	14.7	14.7	14.7	22.3	22.8	22.8
Alaska	12.5	12.7	12.7	67.0	70.2	68.9	74.5	74.5	74.5
Anchorage	7.5	7.5	7.6	36.8	38.0	37.9	29.1	28.6	28.7
Arizona	142.5	148.5	149.7	643.2	656.7	661.6	357.0	367.8	370.0
Phoenix-Mesa	120.8	125.6	126.7	462.1	471.0	475.6	196.6	193.9	194.1
Tucson	13.6	13.7	13.7	108.4	113.2	114.1	74.3	80.3	81.6
Arkansas	44.8	45.9	45.9	266.6	275.0	273.3	192.1	192.6	193.1
Fayetteville-Springdale-Rogers	5.2	5.6	5.6	28.1	29.6	29.4	20.1	20.1	20.3
Fort Smith	3.1	3.2	3.2	26.1	25.8	25.5	10.3	10.4	10.5
Little Rock-North Little Rock	17.5	18.0	18.0	91.5	91.6	91.5	60.2	60.1	60.0
Pine Bluff	1.3	1.3	1.3	8.5	8.7	8.7	7.9	8.0	8.1
California	807.3	813.4	814.6	4,302.8	4,473.4	4,489.8	2,223.7	2,246.5	2,273.5
Bakersfield	7.4	7.5	7.5	46.5	48.6	48.4	50.2	51.7	52.3
Fresno	14.1	14.4	14.5	71.7	75.3	75.1	67.2	70.2	70.1
Los Angeles-Long Beach	228.1	230.5	230.9	1,321.3	1,348.7	1,359.2	553.3	562.4	570.2
Modesto	4.4	4.5	4.4	35.4	36.2	36.2	24.3	24.4	24.9
Oakland	55.6	56.5	56.9	298.9	306.5	308.4	173.7	175.0	176.0
Orange County	99.8	102.6	102.6	397.4	415.8	415.0	141.0	144.3	144.6
Riverside-San Bernardino	30.7	30.0	30.0	237.6	245.1	247.6	180.2	183.2	186.0
Sacramento	48.4	49.1	49.3	185.6	190.7	192.5	172.2	178.8	178.9
Salinas	6.1	6.1	6.1	34.6	36.7	36.5	29.5	30.1	30.0
San Diego	64.6	64.6	64.4	366.1	372.8	373.0	200.6	202.7	204.0
San Francisco	107.9	104.8	104.6	380.7	389.1	389.2	125.2	124.8	126.4
San Jose	32.6	32.9	32.9	319.3	328.6	328.6	90.3	91.5	92.1
Santa Barbara-Santa Maria-Lompoc	7.6	7.3	7.3	48.0	48.9	48.9	32.8	32.7	33.4
Santa Rosa	10.4	10.6	10.6	50.7	52.1	52.0	27.0	27.9	27.9
Stockton-Lodi	8.5	8.4	8.4	44.4	44.4	44.5	35.7	36.1	36.3
Vallejo-Fairfield-Napa	6.2	6.3	6.3	42.2	43.3	42.6	32.9	33.4	34.0
Ventura	14.1	13.4	13.5	78.0	81.7	80.9	44.9	44.0	44.7
Colorado	136.5	137.7	138.3	621.8	631.0	638.2	331.4	335.1	337.3
Boulder-Longmont	6.2	6.3	6.3	53.1	56.5	56.9	27.4	27.7	27.8
Colorado Springs	12.8	13.4	13.5	75.7	76.3	77.5	36.4	36.8	37.3
Denver	89.9	91.4	91.8	341.3	347.8	351.0	150.1	150.6	151.8
Connecticut	137.5	139.9	140.3	519.4	534.2	534.5	235.9	240.0	242.7
Bridgeport	10.6	10.7	11.0	62.9	62.7	62.9	21.2	21.2	21.3
Danbury	4.8	5.0	5.0	25.0	25.8	25.8	10.8	11.0	11.3
Hartford	71.1	69.8	69.5	175.8	178.0	177.3	97.5	96.8	97.3
New Haven-Meriden	13.6	13.7	13.7	92.4	93.6	94.0	31.9	30.7	31.3
New London-Norwich	3.7	3.8	3.8	35.2	36.0	35.9	36.4	36.9	37.1
Stamford-Norwalk	25.2	25.9	26.0	76.0	78.2	77.8	18.0	17.6	17.7
Waterbury	3.6	3.7	3.7	26.9	26.9	26.8	12.3	12.1	12.2
Delaware	48.9	51.1	51.2	113.3	115.8	116.2	55.0	55.7	56.7
Dover	2.2	2.2	2.2	12.6	13.5	13.8	16.0	15.7	15.9
Wilmington-Newark	42.9	44.6	44.8	93.2	95.4	96.1	39.5	40.2	40.9
District of Columbia	29.0	28.9	28.9	278.5	282.9	282.2	224.8	225.0	225.5
Washington PMSA	141.3	142.7	143.1	1,020.6	1,053.3	1,056.1	590.0	596.7	600.0
Florida	437.6	449.3	451.6	2,456.8	2,590.2	2,610.5	985.0	991.4	998.3
Daytona Beach	7.1	7.1	7.2	56.4	59.0	59.7	22.7	23.0	23.0
Fort Lauderdale	49.5	50.5	50.6	228.4	235.1	237.1	86.4	86.8	87.5
Fort Myers-Cape Coral	8.9	9.1	9.2	52.2	53.1	54.3	26.0	26.3	26.5
Gainesville	5.1	5.2	5.2	35.9	38.6	38.5	39.5	40.2	40.4
Jacksonville	57.1	57.8	57.9	177.7	188.2	188.1	67.4	67.9	68.2
Lakeland-Winter Haven	8.8	9.1	9.1	50.7	52.7	53.0	26.1	26.5	26.7
Melbourne-Titusville-Palm Bay	6.3	6.2	6.2	66.3	69.2	69.5	25.2	25.8	25.9
Miami	65.8	66.3	66.8	327.3	331.4	333.4	143.8	141.0	141.8
Orlando	50.9	52.8	53.1	360.8	377.0	378.8	90.2	92.8	93.2
Pensacola	6.2	6.3	6.4	51.3	54.3	54.1	29.5	29.5	29.7
Sarasota-Bradenton	12.5	12.9	13.0	117.2	122.3	123.3	24.4	24.2	24.5
Tallahassee	6.4	6.7	6.7	42.8	44.4	44.7	59.9	60.5	61.0
Tampa-St. Petersburg-Clearwater	84.6	88.9	90.1	468.1	501.9	509.0	139.5	140.5	141.6
West Palm Beach-Boca Raton	34.9	36.5	36.5	196.9	208.6	211.2	55.8	55.4	56.7

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Total			Mining			Construction		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Georgia	3,819.6	3,921.6	3,961.1	7.9	7.8	7.8	191.2	196.3	196.1
Albany	59.7	60.1	60.1	(2)	(2)	(2)	3.4	3.4	3.5
Athens	74.7	76.0	76.9	(1)	(1)	(1)	2.7	2.9	2.9
Atlanta	2,079.8	2,153.9	2,180.0	1.5	1.6	1.6	106.6	112.8	112.1
Augusta-Aiken	199.0	199.2	200.9	.4	.4	.4	12.0	11.9	12.1
Columbus	120.5	122.8	123.8	(1)	(1)	(1)	5.6	5.6	5.6
Macon	151.2	150.4	152.5	1.0	1.0	1.0	6.4	6.1	6.1
Savannah	135.7	136.8	138.8	(1)	(1)	(1)	8.3	8.3	8.3
Hawaii	531.7	530.4	534.9	(1)	(1)	(1)	20.6	20.2	20.6
Honolulu	401.1	398.9	401.7	(1)	(1)	(1)	15.6	14.4	14.4
Idaho	535.5	541.4	539.6	3.0	2.9	2.8	34.8	36.3	35.1
Boise City	206.0	211.1	211.8	(1)	(1)	(1)	13.8	14.7	14.6
Illinois	5,994.0	6,015.7	6,042.9	10.7	10.9	10.7	250.5	263.5	259.8
Bloomington-Normal	86.5	86.3	86.7	(1)	(1)	(1)	3.3	3.2	3.0
Champaign-Urbana	101.2	100.4	101.0	(1)	(1)	(1)	3.6	3.6	3.5
Chicago	4,203.8	4,230.9	4,244.2	1.7	1.7	1.7	173.0	182.6	179.0
Davenport-Moline-Rock Island	183.7	184.1	184.1	(1)	(1)	(1)	9.8	10.1	9.8
Decatur	57.6	57.3	57.5	(1)	(1)	(1)	3.9	4.0	3.7
Kankakee	44.5	44.3	44.8	(1)	(1)	(1)	2.1	2.0	2.1
Peoria-Pekin	178.0	178.3	179.0	(1)	(1)	(1)	8.7	9.4	9.3
Rockford	177.8	179.6	180.0	(1)	(1)	(1)	7.6	7.8	7.5
Springfield	115.2	115.7	115.7	(1)	(1)	(1)	4.8	4.9	4.8
Indiana	2,965.3	2,988.0	2,992.5	7.0	7.1	7.0	148.0	149.6	147.3
Bloomington	66.6	66.5	66.9	(1)	(1)	(1)	2.8	3.1	3.1
Elkhart-Goshen	122.1	124.5	124.5	(1)	(1)	(1)	5.2	5.2	5.2
Evansville-Henderson	160.1	162.5	163.8	1.2	1.2	1.2	10.8	11.6	11.6
Fort Wayne	277.0	277.9	278.6	(1)	(1)	(1)	13.5	13.9	13.6
Gary	274.2	270.6	271.0	(1)	(1)	(1)	22.3	20.2	19.6
Indianapolis	863.2	873.2	872.2	.7	.8	.8	47.5	49.7	49.1
Kokomo	53.3	54.4	54.4	(1)	(1)	(1)	1.8	1.9	1.8
Lafayette	97.3	99.2	100.1	(1)	(1)	(1)	4.0	4.1	4.0
Muncie	61.4	62.8	63.3	(1)	(1)	(1)	2.6	2.6	2.6
South Bend	138.8	137.9	137.9	(1)	(1)	(1)	7.0	6.8	6.7
Terre Haute	68.7	68.2	68.0	.2	(2)	(2)	3.3	3.4	3.3
Iowa	1,475.9	1,506.9	1,509.6	2.3	2.4	2.3	64.8	70.9	68.7
Cedar Rapids	119.6	120.9	121.7	(1)	(1)	(1)	6.1	6.4	6.3
Des Moines	284.4	288.7	288.6	(1)	(1)	(1)	13.2	13.5	13.5
Dubuque	52.3	52.0	52.1	(1)	(1)	(1)	1.9	1.9	1.9
Iowa City	69.3	68.2	70.0	(1)	(1)	(1)	2.6	2.5	2.5
Sioux City	67.9	68.5	68.2	(1)	(1)	(1)	3.3	3.5	3.4
Waterloo-Cedar Falls	75.5	75.3	76.1	(1)	(1)	(1)	2.7	2.8	2.7
Kansas	1,340.3	1,356.4	1,361.5	6.9	7.1	7.2	63.1	69.6	68.7
Lawrence	50.7	49.7	50.2	(1)	(1)	(1)	2.2	2.5	2.5
Topeka	103.0	102.9	103.7	(1)	(1)	(1)	4.8	4.9	4.9
Wichita	289.7	289.6	289.9	1.2	1.2	1.2	15.0	15.6	15.5
Kentucky	1,778.8	1,810.8	1,815.5	23.2	22.9	23.0	87.3	91.7	90.1
Lexington	284.2	288.1	289.7	.3	.3	.3	13.9	14.7	14.5
Louisville	577.8	588.4	591.8	.6	.7	.7	30.2	31.0	30.8
Owensboro	45.2	45.5	45.9	.3	.3	.3	3.5	3.9	3.8
Louisiana	1,924.5	1,930.3	1,938.3	56.3	52.8	52.7	131.4	133.3	133.6
Alexandria	56.3	56.5	56.8	.1	.1	.1	3.5	3.7	3.6
Baton Rouge	302.1	307.0	308.3	1.0	1.0	1.0	34.4	35.6	35.8
Houma	80.8	79.1	79.1	7.1	5.7	5.8	4.3	4.2	4.1
Lafayette	170.1	167.4	168.4	17.8	16.2	16.1	10.0	9.0	9.1
Lake Charles	87.3	88.3	88.6	1.2	1.1	1.1	11.0	11.1	11.3
Monroe	71.1	71.9	72.0	.2	.2	.2	3.5	3.7	3.6
New Orleans	631.0	624.2	628.4	15.4	13.6	13.5	35.3	36.3	36.6
Shreveport-Bossier City	176.7	176.7	176.9	2.6	2.3	2.3	10.5	9.4	9.4
Maine	584.8	598.7	598.7	.1	.1	.1	26.3	28.8	28.1
Lewiston-Auburn	44.7	45.2	45.8	(2)	(2)	(2)	1.7	1.7	1.7
Portland	149.6	152.2	152.8	(2)	(2)	(2)	7.3	8.1	7.8

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Georgia	597.2	591.2	591.2	247.6	263.0	263.2	951.5	973.7	992.4
Albany	8.6	8.4	8.4	3.5	3.9	3.8	14.1	13.9	14.0
Athens	11.7	11.9	11.9	1.7	1.8	1.8	18.8	18.4	18.8
Atlanta	223.3	220.5	221.0	177.6	188.0	188.1	549.4	564.7	577.0
Augusta-Aiken	41.2	40.2	40.0	6.8	7.0	7.1	43.1	43.3	44.0
Columbus	21.8	20.8	21.1	4.1	4.5	4.5	26.8	26.7	27.3
Macon	19.7	19.3	19.3	5.6	5.4	5.4	34.7	34.0	35.2
Savannah	18.1	18.2	18.4	8.5	8.6	8.7	35.2	34.9	35.8
Hawaii	16.2	16.3	16.4	40.5	40.3	40.4	132.0	131.1	132.0
Honolulu	12.6	12.6	12.7	32.0	31.5	31.5	96.5	95.8	96.5
Idaho	77.1	77.9	77.2	26.2	26.7	26.4	136.2	133.7	136.2
Boise City	36.1	37.2	37.2	10.7	11.8	11.6	49.0	47.7	48.4
Illinois	974.2	969.6	970.0	353.6	353.6	355.2	1,368.3	1,359.1	1,379.0
Bloomington-Normal	8.7	8.0	7.8	3.2	3.1	3.2	18.7	18.1	18.7
Champaign-Urbana	11.3	11.3	11.3	2.6	2.6	2.5	21.8	21.4	21.8
Chicago	656.0	651.0	651.0	259.4	260.9	262.4	948.9	943.1	959.5
Davenport-Moline-Rock Island	31.7	31.3	31.4	10.3	10.2	10.3	48.5	48.2	48.5
Decatur	13.7	13.3	13.5	5.1	5.2	5.2	12.4	12.2	12.4
Kankakee	8.3	8.1	8.3	2.2	2.1	2.1	11.1	10.8	11.1
Peoria-Pekin	34.1	34.0	34.0	10.3	10.4	10.4	43.1	42.2	42.8
Rockford	51.1	52.4	52.5	9.5	9.6	9.7	37.3	36.7	37.2
Springfield	4.8	4.7	4.8	4.8	4.8	4.7	23.8	23.5	23.9
Indiana	685.1	687.4	687.2	146.1	145.6	145.0	697.7	695.7	707.1
Bloomington	9.2	9.3	9.3	1.9	1.9	1.9	15.5	14.9	15.1
Elkhart-Goshen	61.7	63.8	63.6	3.0	3.0	3.0	23.0	22.6	22.7
Evansville-Henderson	33.8	33.8	34.3	7.4	7.5	7.5	39.7	39.7	40.6
Fort Wayne	76.1	75.2	75.1	13.2	13.0	13.0	65.1	64.4	65.0
Gary	50.3	49.1	49.0	14.7	14.8	14.8	63.6	63.0	64.3
Indianapolis	129.3	131.2	130.6	53.4	54.6	54.6	222.2	223.1	224.3
Kokomo	20.9	21.3	21.3	1.1	1.3	1.3	11.9	11.5	11.8
Lafayette	22.4	22.6	22.8	2.4	2.4	2.5	19.9	20.0	20.6
Muncie	10.4	10.7	10.7	3.6	3.6	3.7	14.3	14.2	14.4
South Bend	22.6	21.9	21.8	5.8	5.8	5.8	34.8	34.4	34.8
Terre Haute	12.1	11.8	11.7	3.0	3.0	3.0	18.8	18.4	18.4
Iowa	264.1	266.4	266.5	70.9	73.4	73.3	361.2	365.9	369.0
Cedar Rapids	22.3	22.3	22.5	8.4	8.5	8.5	25.9	25.5	25.4
Des Moines	25.0	24.2	24.1	14.8	16.0	15.9	73.7	74.6	75.3
Dubuque	12.1	11.9	11.8	1.9	1.8	1.8	12.4	12.6	12.9
Iowa City	5.1	5.3	5.3	2.0	2.2	2.2	13.5	13.8	13.8
Sioux City	13.8	14.0	13.6	3.8	3.9	3.9	16.7	16.4	16.5
Waterloo-Cedar Falls	15.1	14.8	14.8	2.6	2.8	2.8	17.5	17.2	17.5
Kansas	214.5	210.9	210.9	76.4	77.2	77.5	324.8	331.3	335.1
Lawrence	5.4	5.5	5.5	1.4	1.4	1.4	12.5	12.0	12.2
Topeka	9.8	9.9	10.2	5.8	5.6	5.6	22.8	22.8	23.4
Wichita	74.3	72.9	72.6	11.1	11.3	11.4	64.2	64.7	65.1
Kentucky	321.4	319.7	320.6	103.5	106.8	107.1	426.0	429.5	435.5
Lexington	49.8	49.9	50.1	11.3	11.3	11.3	65.0	65.4	66.6
Louisville	88.7	89.4	89.8	43.5	43.9	44.1	141.1	142.8	144.8
Owensboro	7.0	6.6	6.6	2.3	2.4	2.4	11.6	11.3	11.8
Louisiana	193.4	191.6	191.6	115.9	116.4	116.6	453.7	448.9	453.9
Alexandria	3.6	3.5	3.5	2.8	2.8	2.8	13.7	13.7	14.0
Baton Rouge	24.4	24.6	24.5	13.4	13.7	13.7	72.7	72.1	72.9
Houma	8.8	8.5	8.3	9.0	9.0	9.0	18.8	18.7	18.9
Lafayette	14.8	14.8	15.0	10.2	9.8	10.0	44.6	43.6	44.1
Lake Charles	11.7	11.8	11.7	4.5	5.3	5.3	18.7	18.6	18.7
Monroe	7.7	7.7	7.7	3.7	3.8	3.8	17.9	17.7	17.9
New Orleans	49.9	49.6	49.7	41.5	40.8	40.6	157.0	152.0	153.7
Shreveport-Bossier City	19.2	19.1	19.2	8.6	8.5	8.4	40.4	40.7	41.1
Maine	87.2	85.7	87.1	24.0	24.8	24.5	149.1	151.6	152.9
Lewiston-Auburn	8.0	8.0	7.9	1.8	1.9	1.9	11.6	11.3	12.0
Portland	15.0	15.0	14.9	6.6	7.1	6.9	43.4	44.5	45.6

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Georgia	203.5	211.4	213.1	1,024.1	1,076.8	1,093.8	596.6	601.4	603.5
Albany	2.0	2.1	2.1	15.1	15.4	15.2	13.0	13.0	13.1
Athens	2.5	2.5	2.5	16.2	16.6	17.0	21.1	21.9	22.0
Atlanta	137.2	143.7	144.6	622.8	661.5	672.1	261.4	261.1	263.5
Augusta-Aiken	6.3	6.6	6.6	47.7	48.5	48.8	41.5	41.3	41.9
Columbus	8.6	9.0	9.0	32.9	35.3	35.2	20.7	20.9	21.1
Macon	9.2	9.3	9.7	39.9	39.9	40.2	34.7	35.4	35.6
Savannah	4.6	4.6	4.7	39.8	41.4	41.8	21.2	20.8	21.1
Hawaii	35.4	34.8	34.5	173.8	175.3	176.2	113.2	112.4	114.8
Honolulu	28.3	27.7	27.3	125.0	126.7	127.2	91.1	90.2	92.1
Idaho	23.3	23.8	23.7	129.1	132.3	131.4	105.8	107.8	107.5
Boise City	11.1	11.3	11.4	53.0	54.9	55.2	32.3	33.5	33.4
Illinois	405.1	407.0	406.4	1,797.2	1,827.3	1,825.5	834.4	824.7	836.3
Bloomington-Normal	16.4	17.1	17.1	21.0	21.3	21.3	15.2	15.5	15.6
Champaign-Urbana	3.9	4.0	3.9	21.9	21.3	21.3	36.1	36.2	36.7
Chicago	314.9	317.0	315.8	1,350.1	1,378.2	1,375.1	499.8	496.4	499.7
Davenport-Moline-Rock Island	8.2	8.3	8.4	48.2	49.7	49.4	27.0	26.3	26.3
Decatur	2.0	2.0	2.1	13.7	13.4	13.4	6.8	7.2	7.2
Kankakee	1.7	1.7	1.7	12.1	12.5	12.4	7.0	7.1	7.1
Peoria-Pekin	7.8	8.2	8.3	54.6	54.8	54.7	19.4	19.3	19.5
Rockford	7.2	7.4	7.5	47.2	47.9	48.0	17.9	17.8	17.6
Springfield	7.8	7.9	7.9	35.2	35.6	35.5	34.0	34.3	34.1
Indiana	143.1	146.9	147.0	719.7	733.7	729.7	418.6	422.0	422.2
Bloomington	2.4	2.5	2.6	12.9	13.2	13.3	21.9	21.6	21.6
Elkhart-Goshen	2.9	3.0	3.1	18.3	18.6	18.6	8.2	8.3	8.3
Evansville-Henderson	7.3	7.8	7.8	43.9	44.6	44.5	16.0	16.3	16.3
Fort Wayne	14.9	15.4	15.4	67.4	69.2	69.7	26.8	26.8	26.8
Gary	9.2	9.2	9.2	74.2	75.1	74.8	39.9	39.2	39.3
Indianapolis	64.7	66.6	66.5	233.8	235.7	234.9	111.5	111.5	111.4
Kokomo	1.5	1.5	1.5	8.9	9.6	9.5	7.2	7.3	7.2
Lafayette	4.1	4.3	4.3	19.4	19.7	19.8	25.1	26.1	26.1
Muncie	1.9	2.0	2.0	15.9	16.3	16.3	12.7	13.4	13.6
South Bend	6.8	6.9	6.9	46.9	47.6	47.5	14.9	14.5	14.4
Terre Haute	2.3	2.2	2.2	16.8	16.9	17.0	12.3	12.5	12.4
Iowa	83.9	85.3	85.6	386.2	397.5	396.8	242.5	245.1	247.4
Cedar Rapids	6.4	6.6	6.6	37.1	37.3	38.0	13.4	14.3	14.4
Des Moines	40.3	39.8	39.9	83.3	86.0	85.3	34.1	34.6	34.6
Dubuque	1.9	1.9	1.9	18.2	18.1	17.9	3.9	3.8	3.9
Iowa City	2.2	2.3	2.3	15.1	13.9	14.8	28.8	28.2	29.1
Sioux City	2.8	2.8	2.8	19.6	20.1	20.1	7.9	7.8	7.9
Waterloo-Cedar Falls	3.0	2.9	3.0	21.3	21.7	22.0	13.3	13.1	13.3
Kansas	62.5	63.5	63.6	340.6	346.2	346.3	251.5	250.6	252.2
Lawrence	2.2	2.0	2.0	11.9	11.6	11.7	15.1	14.7	14.9
Topeka	6.8	6.7	6.7	30.8	31.1	31.1	22.2	21.9	21.8
Wichita	11.6	11.7	11.7	77.2	77.1	77.1	35.1	35.1	35.3
Kentucky	70.6	71.5	71.2	447.1	463.2	461.8	299.7	305.5	306.2
Lexington	10.3	10.7	10.7	76.6	79.5	79.4	57.0	56.3	56.8
Louisville	30.3	30.5	30.5	172.1	178.5	179.2	71.3	71.6	71.9
Owensboro	2.0	2.1	2.2	11.1	11.4	11.3	7.4	7.5	7.5
Louisiana	86.8	87.2	87.4	516.3	526.9	529.0	370.7	373.2	373.5
Alexandria	2.4	2.4	2.4	16.7	16.7	16.8	13.5	13.6	13.6
Baton Rouge	18.4	18.5	18.6	76.2	78.7	78.7	61.6	62.8	63.1
Houma	2.1	2.0	2.0	16.4	16.4	16.3	14.3	14.6	14.7
Lafayette	6.3	6.5	6.5	42.4	42.8	43.0	24.0	24.7	24.6
Lake Charles	2.5	2.4	2.5	24.3	24.2	24.3	13.4	13.8	13.7
Monroe	5.3	5.5	5.4	19.4	19.7	20.0	13.4	13.6	13.4
New Orleans	31.8	31.6	31.6	193.5	192.8	193.5	106.6	107.5	107.4
Shreveport-Bossier City	6.4	6.5	6.5	55.8	56.4	56.2	33.2	33.8	33.8
Maine	30.0	30.7	30.6	170.5	180.6	177.4	97.6	96.4	98.0
Lewiston-Auburn	2.3	2.4	2.4	14.3	14.8	14.8	5.1	5.1	5.1
Portland	13.0	13.0	13.0	44.9	45.3	45.1	19.4	19.2	19.5

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Total			Mining			Construction		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Maryland	2,367.4	2,401.3	2,411.8	1.3	1.3	1.4	146.7	148.7	147.6
Baltimore PMSA	1,209.9	1,221.2	1,224.9	.3	.4	.4	66.3	66.3	66.1
Baltimore City	408.0	417.4	416.4	(1)	(1)	(1)	12.8	13.9	13.7
Suburban Maryland-D.C.	875.6	888.8	892.1	(1)	(1)	(1)	65.1	65.8	65.7
Massachusetts	3,229.3	3,265.8	3,273.2	1.4	1.3	1.3	114.0	121.7	119.8
Barnstable-Yarmouth	57.4	62.5	59.5	(1)	(1)	(1)	2.8	3.0	3.0
Boston	1,975.7	1,992.6	1,999.5	.4	.4	.4	64.6	68.5	67.8
Brockton	99.5	100.6	101.3	(2)	(2)	(2)	3.7	4.3	4.2
Fitchburg-Leominster	53.0	53.7	53.7	(2)	(2)	(2)	1.9	2.1	2.1
Lawrence	152.8	155.2	155.5	(2)	(2)	(2)	6.1	6.6	6.5
Lowell	122.2	124.2	124.8	(1)	(1)	(1)	5.3	5.6	5.6
New Bedford	66.6	68.1	68.1	(2)	(2)	(2)	2.6	2.8	2.8
Pittsfield	42.7	43.4	43.5	.1	.1	.1	1.9	2.0	2.0
Springfield	258.6	260.0	260.9	.1	.1	.1	8.2	8.8	8.5
Worcester	233.8	232.1	233.5	.2	.2	.2	7.6	8.2	8.2
Michigan	4,596.3	4,625.3	4,630.5	7.9	6.1	7.1	194.2	204.6	200.1
Ann Arbor	280.9	282.3	283.2	(1)	(1)	(1)	11.1	11.4	11.2
Benton Harbor	72.8	73.6	73.7	(1)	(1)	(1)	2.7	2.6	2.6
Detroit	2,157.3	2,178.9	2,183.3	.9	1.0	1.0	89.4	95.8	94.5
Flint	180.1	173.8	174.2	(1)	(1)	(1)	8.4	9.1	8.9
Grand Rapids-Muskegon-Holland	578.0	595.5	595.9	(1)	(1)	(1)	27.6	30.0	29.2
Jackson	62.3	63.9	64.2	(1)	(1)	(1)	2.6	2.8	2.7
Kalamazoo-Battle Creek	215.9	216.3	216.6	(1)	(1)	(1)	9.2	9.7	9.4
Lansing-East Lansing	239.3	240.4	242.1	(1)	(1)	(1)	9.1	9.7	9.3
Saginaw-Bay City-Midland	182.6	184.8	185.0	(1)	(1)	(1)	9.4	9.9	9.7
Minnesota	2,610.0	2,654.1	2,657.4	8.2	8.1	8.0	107.9	124.8	117.4
Duluth-Superior	115.7	118.0	117.7	4.9	4.5	4.5	4.8	5.4	5.1
Minneapolis-St. Paul	1,706.1	1,735.7	1,743.4	(2)	(2)	(2)	67.2	76.5	74.2
Rochester	79.4	81.0	81.2	(1)	(1)	(1)	3.3	3.8	3.7
St. Cloud	89.2	91.1	91.3	(1)	(1)	(1)	4.5	4.9	4.8
Mississippi	1,142.3	1,139.3	1,139.7	6.4	6.5	6.6	57.1	56.6	57.4
Jackson	226.7	229.7	230.5	(2)	(2)	(2)	11.2	11.7	11.8
Missouri	2,732.2	2,732.0	2,735.1	4.9	5.2	5.2	134.6	140.8	137.2
Kansas City	960.2	973.8	977.4	(1)	(1)	(1)	50.3	53.7	52.9
St. Louis	1,326.0	1,335.9	1,339.3	(1)	(1)	(1)	71.6	75.7	74.2
Springfield	168.0	171.2	172.0	(1)	(1)	(1)	7.2	7.6	7.5
Montana	379.1	390.3	387.2	5.2	5.0	5.0	19.6	22.3	21.1
Nebraska	891.0	886.0	888.5	1.2	1.2	1.2	41.9	43.3	42.5
Lincoln	151.4	152.0	153.2	(1)	(1)	(1)	7.1	7.6	7.6
Omaha	413.2	409.2	410.8	(1)	(1)	(1)	21.1	21.2	20.9
Nevada	953.2	995.3	999.8	13.1	11.9	11.8	87.3	91.6	90.9
Las Vegas	684.7	722.4	727.2	2.1	2.1	2.1	68.9	72.9	72.9
Reno	185.7	191.5	192.0	.5	.5	.5	13.8	14.1	13.7
New Hampshire	594.2	604.0	605.0	.5	.4	.4	24.4	24.9	24.7
Manchester	102.3	101.9	103.4	(1)	(1)	(1)	4.7	4.7	4.8
Nashua	94.2	93.3	93.2	(1)	(1)	(1)	3.2	3.2	3.1
Portsmouth-Rochester	118.8	119.9	119.5	(1)	(1)	(1)	4.1	4.1	4.2
New Jersey	3,850.5	3,903.2	3,917.7	2.1	2.2	2.2	140.7	145.5	143.9
Atlantic-Cape May	177.1	182.3	178.0	(1)	(1)	(1)	6.8	6.7	6.4
Bergen-Passaic	667.9	674.7	678.9	(1)	(1)	(1)	24.5	25.0	25.1
Camden	494.5	499.1	503.7	(1)	(1)	(1)	24.0	24.2	23.6
Jersey City	247.3	249.2	250.9	(1)	(1)	(1)	5.0	5.4	5.4
Middlesex-Somerset-Hunterdon	630.6	640.2	645.2	.5	.6	.6	20.2	21.1	21.5
Monmouth-Ocean	367.5	375.8	376.6	(1)	(1)	(1)	18.8	19.5	19.2
Newark	981.8	996.6	1,003.0	.9	1.0	1.0	33.8	35.4	36.0
Trenton	201.5	203.5	204.1	(1)	(1)	(1)	4.9	5.0	4.9
Vineland-Millville-Bridgeton	59.6	59.8	60.1	.2	.3	.3	2.2	2.1	1.9
New Mexico	729.1	738.0	739.4	14.6	13.3	13.3	43.8	44.6	43.9
Albuquerque	342.1	346.1	347.9	(1)	(1)	(1)	21.7	21.8	21.5
Las Cruces	53.8	55.3	55.9	(1)	(1)	(1)	3.2	3.3	3.3
Santa Fe	72.6	75.2	74.4	(1)	(1)	(1)	3.7	4.1	4.1

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Maryland	176.8	178.2	178.0	110.5	113.9	114.3	547.6	546.2	552.5
Baltimore PMSA	100.3	99.4	99.1	58.1	60.8	60.7	276.3	272.3	274.9
Baltimore City	30.1	29.1	28.8	20.1	20.4	20.6	63.7	64.9	64.0
Suburban Maryland-D.C.	39.4	40.7	40.8	36.2	38.0	38.1	203.3	205.2	207.1
Massachusetts	442.2	436.4	435.8	137.0	139.5	138.8	739.8	740.1	748.5
Barnstable-Yarmouth	2.1	2.2	2.2	3.0	3.1	3.0	19.3	21.5	20.5
Boston	219.7	214.3	214.2	85.3	87.5	86.7	430.2	427.2	433.5
Brockton	10.8	10.3	10.3	4.9	4.6	4.6	33.2	33.5	33.8
Fitchburg-Leominster	13.6	13.3	13.2	2.1	2.1	2.1	12.8	13.0	13.2
Lawrence	37.5	37.2	37.2	5.3	5.7	5.6	36.3	37.4	37.8
Lowell	28.8	28.8	28.7	7.7	8.3	8.3	26.0	26.3	26.9
New Bedford	13.1	13.3	13.1	3.7	4.1	4.0	17.2	17.7	17.7
Pittsfield	7.4	7.2	7.2	1.3	1.3	1.3	10.7	10.8	11.0
Springfield	38.9	39.0	39.2	10.1	10.1	10.1	61.0	61.3	62.2
Worcester	40.9	40.4	40.4	9.7	9.8	9.7	54.1	52.6	53.7
Michigan	972.3	960.5	958.5	179.6	181.3	180.0	1,090.4	1,092.8	1,103.4
Ann Arbor	53.4	52.6	52.4	6.6	6.6	6.6	56.3	57.0	57.5
Benton Harbor	19.6	19.6	19.6	2.9	3.1	3.1	16.3	16.5	16.6
Detroit	442.6	441.9	442.1	96.3	96.3	96.6	513.9	513.7	519.3
Flint	39.7	32.2	31.8	5.8	6.3	6.2	45.3	44.5	45.2
Grand Rapids-Muskegon-Holland	159.6	161.6	162.1	19.6	20.1	20.0	144.5	149.1	151.3
Jackson	12.7	12.9	13.0	3.6	3.6	3.6	15.9	16.1	16.3
Kalamazoo-Battle Creek	49.6	49.5	49.5	7.5	7.7	7.7	47.8	47.9	48.5
Lansing-East Lansing	29.0	28.3	27.7	6.1	6.0	6.1	54.1	54.1	55.1
Saginaw-Bay City-Midland	40.3	39.7	39.7	7.2	7.2	7.2	46.8	46.8	47.4
Minnesota	444.3	445.3	444.2	131.2	130.3	129.9	629.1	636.3	645.4
Duluth-Superior	8.5	8.6	8.6	7.9	7.9	7.9	28.1	28.8	29.0
Minneapolis-St. Paul	281.2	285.7	285.8	95.0	97.2	97.1	407.5	413.1	418.8
Rochester	14.1	13.3	13.4	2.4	2.4	2.4	15.8	16.0	16.1
St. Cloud	15.7	15.9	15.9	3.4	3.5	3.5	26.9	27.0	27.2
Mississippi	245.1	239.1	238.5	53.7	55.4	55.3	246.8	243.7	244.0
Jackson	20.3	20.6	20.6	16.4	17.2	17.1	54.9	53.8	53.9
Missouri	420.7	409.9	409.8	165.9	165.4	165.3	646.8	644.5	651.5
Kansas City	108.2	109.7	109.6	77.3	79.1	79.5	237.0	236.1	239.1
St. Louis	195.6	189.5	189.7	83.0	84.5	84.5	313.9	316.4	320.7
Springfield	23.8	24.3	24.2	11.1	11.8	12.0	46.8	46.8	47.5
Montana	25.2	25.0	24.8	22.0	22.6	22.4	101.0	103.0	102.8
Nebraska	117.9	117.1	117.4	57.8	59.3	59.5	219.1	213.6	216.5
Lincoln	17.8	18.0	18.0	10.0	9.8	9.8	31.8	31.4	31.7
Omaha	39.8	38.8	39.1	30.5	31.5	31.7	101.6	98.6	100.3
Nevada	42.4	43.6	43.6	48.6	51.4	51.5	195.5	204.4	208.1
Las Vegas	22.7	23.8	23.8	35.1	37.2	37.2	142.6	148.8	151.5
Reno	14.0	14.0	14.1	11.9	12.8	12.9	41.9	44.4	45.0
New Hampshire	106.9	105.7	105.5	21.2	21.9	21.8	155.1	157.5	158.8
Manchester	14.9	15.2	15.5	6.1	6.3	6.5	25.2	25.5	26.0
Nashua	27.4	27.0	26.9	3.0	3.1	3.1	23.4	22.7	22.8
Portsmouth-Rochester	18.6	18.5	18.5	3.8	4.1	4.0	31.5	32.2	32.4
New Jersey	476.9	466.3	466.1	263.9	265.9	266.9	903.5	914.6	926.4
Atlantic-Cape May	6.2	6.0	6.0	6.8	6.9	6.8	35.3	37.8	36.3
Bergen-Passaic	105.7	103.9	103.0	37.4	37.6	37.8	182.1	183.3	186.9
Camden	54.7	54.7	55.1	23.3	23.2	23.2	131.8	133.1	136.2
Jersey City	27.3	26.7	26.7	30.3	30.5	30.5	58.8	58.8	59.5
Middlesex-Somerset-Hunterdon	93.1	89.1	89.4	48.9	49.0	49.3	148.1	149.3	152.2
Monmouth-Ocean	20.3	20.1	20.1	20.0	19.9	19.8	99.6	101.1	102.6
Newark	135.8	133.2	133.5	84.0	86.2	86.6	197.6	200.2	204.4
Trenton	17.0	16.3	16.3	7.3	7.6	7.6	33.8	34.5	35.3
Vineland-Millville-Bridgeton	12.6	12.1	11.9	2.8	2.8	2.9	12.0	12.0	12.3
New Mexico	44.4	42.9	42.4	34.5	34.9	35.1	173.4	174.0	175.5
Albuquerque	28.1	27.0	27.2	17.1	17.7	17.9	83.2	82.6	84.0
Las Cruces	3.0	3.1	3.1	2.2	2.2	2.2	10.9	11.2	11.3
Santa Fe	1.9	2.0	2.0	1.3	1.4	1.4	15.3	15.6	15.5

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Maryland	134.3	137.9	138.0	801.2	829.6	831.3	449.0	445.5	448.7
Baltimore PMSA	74.6	76.4	76.5	414.4	425.4	425.9	219.6	220.2	221.3
Baltimore City	34.6	36.3	36.2	160.3	164.3	164.4	86.4	88.5	88.7
Suburban Maryland-D.C.	51.0	52.9	52.8	303.9	314.4	314.6	176.7	171.8	173.0
Massachusetts	218.8	222.0	222.8	1,151.8	1,180.6	1,179.0	424.3	424.2	427.2
Barnstable-Yarmouth	2.9	2.8	2.7	19.4	21.8	19.9	7.9	8.1	8.2
Boston	164.8	167.7	168.5	774.0	787.8	788.0	236.7	239.2	240.4
Brockton	3.1	3.2	3.2	26.6	27.0	27.2	17.2	17.7	18.0
Fitchburg-Leominster	1.5	1.5	1.5	12.8	13.0	12.8	8.3	8.7	8.8
Lawrence	4.6	4.7	4.7	43.9	44.3	44.2	19.1	19.3	19.5
Lowell	3.4	3.4	3.5	34.7	35.2	35.2	16.3	16.6	16.6
New Bedford	1.8	1.8	1.8	17.8	18.4	18.5	10.4	10.0	10.2
Pittsfield	1.9	2.0	2.0	14.1	14.8	14.5	5.3	5.2	5.4
Springfield	12.9	13.0	13.0	80.1	80.7	80.3	47.3	47.0	47.5
Worcester	14.3	13.7	13.7	70.3	73.6	73.7	36.7	33.6	33.9
Michigan	208.2	209.2	209.4	1,257.4	1,288.5	1,283.5	686.3	682.3	688.5
Ann Arbor	10.1	10.3	10.2	67.8	69.4	69.0	75.6	75.0	76.3
Benton Harbor	2.4	2.3	2.3	19.9	20.3	20.3	9.0	9.2	9.2
Detroit	112.6	113.3	113.2	660.7	678.6	676.4	240.9	238.3	240.2
Flint	6.5	6.8	6.8	48.7	49.3	49.5	25.7	25.6	25.8
Grand Rapids-Muskegon-Holland	23.5	24.8	24.7	145.4	150.2	149.0	57.8	59.7	59.6
Jackson	1.9	1.9	1.9	15.0	15.5	15.5	10.6	11.1	11.2
Kalamazoo-Battle Creek	10.5	10.3	10.2	54.4	55.1	55.0	36.9	36.1	36.3
Lansing-East Lansing	14.1	14.6	14.5	58.6	59.2	59.4	68.3	68.5	70.0
Saginaw-Bay City-Midland	6.7	6.9	6.9	49.1	51.0	50.6	23.1	23.3	23.5
Minnesota	159.1	159.9	160.0	734.3	759.0	758.4	395.9	390.4	394.1
Duluth-Superior	3.5	3.6	3.6	33.9	34.9	34.8	24.1	24.3	24.2
Minneapolis-St. Paul	126.8	130.0	129.5	497.7	509.8	510.0	230.1	222.8	227.4
Rochester	2.3	2.4	2.4	34.3	35.7	35.7	7.2	7.4	7.5
St. Cloud	3.3	3.5	3.5	22.5	23.0	23.1	12.9	13.3	13.3
Mississippi	42.0	42.7	42.2	262.8	264.8	265.1	228.4	230.5	230.6
Jackson	16.3	16.6	16.4	60.0	60.4	61.3	46.6	48.4	48.4
Missouri	164.1	165.8	165.1	767.3	769.9	768.8	427.9	430.5	432.2
Kansas City	68.2	69.5	69.6	283.9	287.2	287.5	135.3	138.5	139.2
St. Louis	83.0	83.3	83.4	420.0	431.0	429.7	158.9	155.5	157.1
Springfield	7.6	7.7	7.6	50.0	51.4	51.0	21.5	21.6	22.2
Montana	17.2	17.7	17.8	107.0	112.6	111.0	81.9	82.1	82.3
Nebraska	58.5	58.9	59.0	242.5	239.6	238.7	152.1	153.0	153.7
Lincoln	10.0	10.4	10.5	41.3	41.3	41.3	33.4	33.5	34.3
Omaha	34.3	34.3	34.3	135.3	133.3	133.2	50.6	51.5	51.3
Nevada	44.7	45.8	45.8	404.9	424.5	425.5	116.7	122.1	122.6
Las Vegas	33.7	34.7	34.9	305.1	323.3	324.5	74.5	79.6	80.3
Reno	8.6	8.7	8.7	70.6	72.2	72.2	24.4	24.8	24.9
New Hampshire	31.3	31.7	31.6	172.7	180.3	179.5	82.1	81.6	82.7
Manchester	7.1	6.8	6.7	32.9	31.7	31.8	11.4	11.7	12.1
Nashua	5.3	5.0	5.1	23.7	23.5	23.4	8.2	8.8	8.8
Portsmouth-Rochester	6.6	6.8	6.7	31.9	31.7	31.2	22.3	22.5	22.5
New Jersey	249.5	257.6	257.9	1,235.1	1,273.7	1,270.9	578.8	577.4	583.4
Atlantic-Cape May	5.7	6.1	5.9	87.5	90.0	87.7	28.8	28.8	28.9
Bergen-Passaic	37.4	38.6	38.6	208.6	214.5	215.0	72.2	71.8	72.5
Camden	25.2	27.4	27.4	154.3	157.2	157.0	81.2	79.3	81.2
Jersey City	27.1	28.3	28.3	60.5	61.2	61.9	38.3	38.3	38.6
Middlesex-Somerset-Hunterdon	45.9	47.4	47.6	193.5	202.5	202.6	80.4	81.2	82.0
Monmouth-Ocean	18.5	18.6	18.6	126.6	132.9	131.8	63.7	63.7	64.5
Newark	75.0	76.8	76.8	311.1	320.1	319.5	143.6	143.7	145.2
Trenton	11.1	11.2	11.3	75.2	77.0	76.7	52.2	51.9	52.0
Vineland-Millville-Bridgeton	2.9	2.8	2.8	12.9	13.4	13.6	14.0	14.3	14.4
New Mexico	32.0	32.7	32.6	206.6	213.2	213.4	179.8	182.4	183.2
Albuquerque	17.2	17.6	17.6	108.4	111.4	111.5	66.4	68.0	68.2
Las Cruces	2.1	2.0	2.0	13.5	14.7	14.7	18.9	18.8	19.3
Santa Fe	3.5	3.6	3.6	21.7	22.7	22.3	25.2	25.8	25.5

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Total			Mining			Construction		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
New York	8,386.5	8,510.7	8,552.7	4.7	4.6	4.4	298.7	323.9	319.1
Albany-Schenectady-Troy	448.5	448.6	450.5	.6	.6	.6	17.2	18.4	17.8
Binghamton	118.6	118.8	119.9	(1)	(1)	(1)	4.3	4.6	4.5
Buffalo-Niagara Falls	554.1	554.5	555.2	(1)	(1)	(1)	20.7	22.0	21.1
Dutchess County	111.2	113.8	114.6	(1)	(1)	(1)	4.4	4.8	4.8
Elmira	44.8	43.5	43.9	(1)	(1)	(1)	2.0	2.0	2.0
Glens Falls	49.1	50.6	49.2	(1)	(1)	(1)	2.2	2.2	2.0
Nassau-Suffolk	1,176.4	1,198.1	1,208.1	(1)	(1)	(1)	56.8	62.5	62.1
New York PMSA	4,131.5	4,198.6	4,236.0	(1)	(1)	(1)	135.0	145.4	145.5
New York City	3,598.2	3,655.9	3,689.5	.3	.2	.2	106.4	114.2	114.4
Newburgh	124.1	128.9	128.9	(1)	(1)	(1)	4.3	5.1	5.2
Rochester	545.9	549.6	549.2	.4	.4	.4	19.9	20.5	19.9
Rockland County	107.0	109.0	109.7	(1)	(1)	(1)	4.8	5.4	5.4
Syracuse	347.0	350.3	350.1	(1)	(1)	(1)	13.8	15.1	14.5
Utica-Rome	131.8	133.9	133.7	(1)	(1)	(1)	3.7	4.3	4.0
Westchester County	404.4	411.0	414.3	(1)	(1)	(1)	21.7	23.6	23.5
North Carolina	3,852.9	3,877.1	3,887.9	4.0	4.1	4.1	220.2	217.7	217.9
Asheville	113.6	113.9	114.9	(1)	(1)	(1)	6.7	6.5	6.5
Charlotte-Gastonia-Rock Hill	791.4	801.2	802.8	(1)	(1)	(1)	49.5	50.5	50.5
Greensboro-Winston-Salem-High Point	659.6	663.9	667.8	(1)	(1)	(1)	34.3	33.1	33.0
Raleigh-Durham-Chapel Hill	676.4	681.5	684.0	(1)	(1)	(1)	39.6	41.3	41.4
North Dakota	320.6	321.3	321.9	4.0	3.9	3.7	14.7	17.0	16.3
Bismarck	50.3	50.6	50.9	(1)	(1)	(1)	2.6	3.0	2.8
Fargo-Moorhead	100.8	100.8	100.7	(1)	(1)	(1)	5.4	6.1	5.7
Grand Forks	49.5	49.0	49.4	(1)	(1)	(1)	3.3	3.4	3.3
Ohio	5,550.3	5,565.8	5,579.7	13.2	12.7	12.7	233.7	246.1	239.2
Akron	327.5	332.4	333.1	.5	.5	.5	13.9	14.8	14.5
Canton-Massillon	186.2	189.1	190.1	.6	.5	.5	9.5	10.1	9.9
Cincinnati	877.4	892.7	896.8	.7	.6	.6	39.5	41.3	41.0
Cleveland-Lorain-Elyria	1,164.2	1,164.6	1,169.2	.9	.9	.9	45.5	48.4	46.9
Columbus	847.6	852.4	858.1	.6	.5	.5	36.5	37.9	37.7
Dayton-Springfield	481.0	479.6	481.0	.3	.3	.4	17.6	18.2	18.0
Hamilton-Middletown	124.5	126.3	127.0	(1)	(1)	(1)	7.8	8.2	8.2
Lima	77.8	78.8	79.7	(1)	(1)	(1)	4.1	4.6	4.5
Mansfield	80.7	80.1	80.6	(1)	(1)	(1)	2.7	2.6	2.6
Steubenville-Weirton	51.9	51.1	51.2	.4	.4	.4	1.9	1.9	1.7
Toledo	329.1	330.8	331.7	.2	.2	.2	16.1	17.1	16.8
Youngstown-Warren	250.6	252.7	252.7	.4	.5	.4	11.0	12.0	11.6
Oklahoma	1,461.7	1,494.9	1,498.5	31.0	29.7	29.8	55.0	56.6	56.3
Enid	24.6	24.7	24.9	.8	.7	.8	1.0	.9	.9
Lawton	38.8	39.3	39.4	.1	.1	.1	1.4	1.6	1.6
Oklahoma City	520.9	532.7	534.6	6.9	6.6	6.6	19.5	20.1	20.0
Tulsa	399.8	411.0	412.2	7.8	7.8	7.8	16.6	17.5	17.5
Oregon	1,589.2	1,611.8	1,614.3	1.8	2.0	1.9	84.2	88.9	85.0
Eugene-Springfield	143.9	145.8	146.4	.2	.2	.2	7.4	7.7	7.4
Medford-Ashland	73.3	74.9	75.4	.1	.1	.1	3.4	3.6	3.5
Portland-Vancouver	957.5	975.6	984.1	1.3	1.3	1.2	56.0	57.5	56.4
Salem	136.6	140.0	138.9	.2	.3	.3	8.3	8.4	8.2
Pennsylvania	5,577.9	5,594.4	5,604.3	21.3	20.4	20.1	228.6	237.3	235.4
Allentown-Bethlehem-Easton	277.5	278.0	278.9	(1)	(1)	(1)	11.2	11.4	11.3
Altoona	59.9	59.9	60.4	(1)	(1)	(1)	2.8	2.7	2.7
Erie	133.5	135.0	134.9	(1)	(1)	(1)	4.9	4.9	4.8
Harrisburg-Lebanon-Carlisle	363.1	361.6	362.2	(1)	(1)	(1)	14.1	14.9	14.5
Johnstown	88.8	87.5	88.6	(1)	(1)	(1)	4.6	4.7	4.6
Lancaster	220.5	222.2	222.9	.4	.4	.4	13.1	13.4	13.4
Philadelphia PMSA	2,357.6	2,365.0	2,381.7	(1)	(1)	(1)	93.8	97.7	96.5
Philadelphia City	683.8	687.9	691.4	(1)	(1)	(1)	10.5	10.6	10.3
Pittsburgh	1,109.3	1,117.3	1,119.1	4.2	4.1	4.1	52.2	55.1	53.6
Reading	168.9	169.9	171.0	(1)	(1)	(1)	6.9	7.5	7.4
Scranton-Wilkes-Barre-Hazleton	283.6	283.4	284.9	.5	.4	.4	11.3	11.6	11.3
Sharon	50.1	49.3	50.0	(1)	(1)	(1)	1.6	1.7	1.7
State College	72.6	72.9	73.3	(1)	(1)	(1)	2.3	2.3	2.2
Williamsport	54.6	55.0	55.2	(1)	(1)	(1)	2.2	2.3	2.2
York	165.8	167.5	168.2	.4	.4	.4	8.8	9.1	8.8

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
New York	920.3	909.3	907.5	416.6	425.0	422.8	1,708.9	1,700.9	1,729.2
Albany-Schenectady-Troy	38.9	39.7	39.4	17.7	18.0	17.9	94.7	92.1	93.4
Binghamton	25.4	24.3	24.4	5.1	5.0	5.1	25.6	25.2	25.6
Buffalo-Niagara Falls	89.2	87.8	87.7	26.2	27.2	26.9	133.6	131.8	134.3
Dutchess County	18.2	18.5	18.6	4.1	4.4	4.4	21.2	21.2	21.5
Elmira	9.9	9.1	9.1	1.6	1.5	1.5	10.7	10.3	10.6
Glens Falls	8.0	8.0	8.0	1.4	1.6	1.5	11.4	11.8	11.5
Nassau-Suffolk	115.6	115.7	116.3	53.7	54.7	54.7	302.0	299.1	306.5
New York PMSA	316.6	313.4	312.8	236.1	238.6	238.9	725.6	729.3	743.7
New York City	264.7	260.0	259.3	208.6	210.8	211.1	606.5	610.9	622.6
Newburgh	12.1	12.4	12.3	7.1	7.6	7.5	35.0	35.8	35.9
Rochester	123.0	119.5	119.4	17.8	18.0	18.0	115.2	115.5	116.7
Rockland County	11.8	12.2	12.3	5.9	5.8	5.8	25.9	25.8	26.2
Syracuse	50.6	50.6	50.8	19.8	20.5	20.3	79.4	78.1	79.3
Utica-Rome	20.4	19.8	19.7	3.8	3.7	3.8	26.9	27.3	27.3
Westchester County	38.1	38.9	39.0	20.9	21.2	21.2	88.9	88.2	90.7
North Carolina	823.6	803.5	802.8	174.7	176.7	176.9	875.8	878.5	888.4
Asheville	19.4	18.5	18.5	4.9	4.9	5.0	28.2	28.3	29.0
Charlotte-Gastonia-Rock Hill	140.0	138.3	137.4	50.4	50.0	50.1	187.6	186.1	188.2
Greensboro-Winston-Salem-High Point	163.5	157.8	158.2	36.0	36.8	36.9	148.9	150.8	151.3
Raleigh-Durham-Chapel Hill	85.5	85.5	85.7	29.2	29.0	29.3	143.0	142.1	143.4
North Dakota	24.3	23.9	23.7	17.7	17.8	17.9	81.9	81.0	81.9
Bismarck	2.8	2.8	2.8	3.1	3.2	3.2	12.2	12.3	12.6
Fargo-Moorhead	8.2	8.0	7.8	5.1	5.0	5.0	28.3	28.0	28.6
Grand Forks	4.0	4.0	4.0	2.1	2.0	2.0	13.5	13.0	13.2
Ohio	1,096.2	1,079.7	1,084.5	245.1	247.6	246.7	1,351.8	1,337.4	1,359.6
Akron	65.0	64.2	64.4	14.9	15.3	15.3	81.6	83.4	84.3
Canton-Massillon	47.6	47.2	47.3	5.1	5.4	5.3	45.5	46.9	47.7
Cincinnati	143.5	143.4	143.3	48.7	48.8	48.9	225.5	227.0	231.0
Cleveland-Lorain-Elyria	222.3	216.0	219.6	47.0	47.3	47.5	276.7	274.3	277.4
Columbus	93.3	93.7	94.1	38.7	38.1	38.4	221.6	218.6	222.3
Dayton-Springfield	99.4	95.5	95.0	21.3	21.2	21.2	111.4	110.5	111.5
Hamilton-Middletown	21.7	21.1	21.5	4.7	4.9	4.8	33.1	32.7	32.9
Lima	19.7	18.8	19.2	3.2	3.5	3.5	18.4	18.5	18.8
Mansfield	23.2	22.3	22.4	3.4	3.2	3.2	18.3	18.3	18.5
Steubenville-Weirton	13.2	13.1	13.1	2.8	2.8	2.8	11.3	10.8	10.9
Toledo	60.1	59.9	60.0	15.1	16.1	15.9	81.1	81.8	82.8
Youngstown-Warren	56.4	55.1	55.1	11.0	11.2	11.1	63.5	64.7	65.2
Oklahoma	186.4	186.7	187.1	83.6	85.1	85.1	337.9	342.4	346.8
Enid	2.3	2.4	2.4	2.2	2.2	2.2	6.2	6.3	6.4
Lawton	3.9	3.9	3.9	1.6	1.6	1.6	9.2	9.3	9.5
Oklahoma City	55.0	54.5	54.7	24.1	24.8	24.8	123.4	125.1	126.5
Tulsa	58.1	58.1	58.0	33.5	34.9	35.1	93.5	94.9	96.6
Oregon	239.9	241.5	240.3	77.4	81.5	81.7	393.5	392.2	398.2
Eugene-Springfield	22.3	23.5	23.3	4.4	4.2	4.2	36.1	35.8	36.9
Medford-Ashland	9.0	9.3	9.1	3.5	3.6	3.6	23.0	23.3	24.3
Portland-Vancouver	145.9	145.3	145.0	54.9	56.7	57.2	238.0	239.6	245.1
Salem	16.9	18.8	17.4	3.9	3.9	3.9	29.1	28.9	29.5
Pennsylvania	940.8	930.8	929.8	291.0	291.5	290.9	1,259.5	1,246.1	1,259.9
Allentown-Bethlehem-Easton	56.2	55.7	55.5	16.1	16.6	16.7	60.2	59.5	60.5
Allentown	10.2	10.1	10.1	4.5	4.3	4.3	16.0	15.8	16.2
Erie	34.9	34.2	34.6	4.8	4.6	4.6	29.4	30.2	30.2
Harrisburg-Lebanon-Carlisle	47.3	44.1	43.7	24.6	24.9	25.0	82.1	81.3	82.7
Johnstown	13.1	12.6	12.8	5.3	5.3	5.3	21.2	21.1	21.5
Lancaster	57.6	56.5	56.7	8.3	8.3	8.3	54.7	55.4	56.0
Philadelphia PMSA	305.1	302.0	302.0	112.7	113.3	114.2	519.5	515.1	525.8
Philadelphia City	57.3	56.4	56.5	34.9	36.1	35.9	114.2	112.3	114.0
Pittsburgh	140.7	140.3	140.1	69.1	70.0	69.7	263.3	261.4	265.1
Reading	42.5	42.2	42.3	8.9	8.9	9.0	39.5	38.9	39.6
Scranton-Wilkes-Barre-Hazleton	55.9	54.8	55.0	16.5	16.5	16.5	67.9	67.5	68.5
Sharon	12.0	10.8	10.9	1.9	1.9	1.9	12.9	13.0	13.4
State College	9.1	9.2	9.3	2.2	2.2	2.2	13.5	13.9	14.0
Williamsport	13.7	13.9	13.8	2.1	2.1	2.1	13.4	13.4	13.8
York	47.3	46.6	46.9	8.5	8.9	9.0	40.9	41.8	42.7

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
New York	738.3	745.7	745.9	2,858.9	2,949.5	2,956.2	1,440.0	1,451.8	1,467.6
Albany-Schenectady-Troy	25.8	26.1	26.0	142.3	143.8	144.5	111.3	109.9	110.9
Binghamton	3.8	4.1	4.2	31.4	32.4	32.8	23.0	23.2	23.3
Buffalo-Niagara Falls	29.3	29.6	29.5	165.7	167.4	166.5	89.3	88.7	89.2
Dutchess County	4.7	5.0	5.0	35.3	36.5	36.7	23.3	23.4	23.6
Elmira	1.2	1.3	1.2	11.9	11.9	12.0	7.4	7.4	7.5
Glens Falls	2.3	2.3	2.3	13.2	14.2	13.2	10.5	10.5	10.7
Nassau-Suffolk	79.1	79.9	79.6	381.4	394.4	394.2	187.8	191.8	194.7
New York PMSA	521.4	524.4	525.7	1,554.3	1,605.2	1,621.3	642.5	642.3	648.1
New York City	488.0	490.4	491.7	1,366.1	1,411.9	1,428.3	557.8	557.5	561.9
Newburgh	5.6	5.5	5.6	32.8	33.6	33.2	27.2	28.9	29.2
Rochester	20.7	21.0	21.0	166.2	171.0	169.3	82.7	83.7	84.5
Rockland County	5.0	5.1	5.1	34.1	35.4	35.5	19.4	19.3	19.4
Syracuse	17.8	17.9	17.8	102.0	104.0	102.8	63.6	64.1	64.6
Utica-Rome	8.3	8.3	8.3	40.3	42.2	42.1	28.3	28.3	28.5
Westchester County	26.8	27.3	27.3	147.1	150.6	150.3	60.9	61.2	62.3
North Carolina	181.6	184.7	184.6	958.7	983.6	981.5	614.3	628.3	631.7
Asheville	3.7	3.7	3.8	34.0	34.8	34.8	16.7	17.2	17.3
Charlotte-Gastonia-Rock Hill	62.0	65.6	65.7	205.7	214.8	214.0	96.2	95.9	96.9
Greensboro-Winston-Salem-High Point	34.8	34.4	34.3	171.4	182.1	182.9	70.7	68.9	71.2
Raleigh-Durham-Chapel Hill	30.6	30.5	30.5	216.6	219.3	219.1	131.9	133.8	134.6
North Dakota	15.9	16.0	16.0	90.0	90.7	90.1	72.1	71.0	72.3
Bismarck	2.5	2.5	2.5	16.2	16.2	16.1	10.9	10.6	10.9
Fargo-Moorhead	7.0	7.1	7.1	31.0	31.1	31.0	15.8	15.5	15.5
Grand Forks	1.4	1.4	1.4	11.9	11.9	12.0	13.3	13.3	13.5
Ohio	301.1	305.8	306.1	1,525.5	1,552.5	1,542.0	783.7	784.0	788.9
Akron	13.1	13.8	13.8	88.4	90.8	90.3	50.1	49.6	50.0
Canton-Massillon	6.3	6.6	6.6	50.8	51.6	51.8	20.8	20.8	21.0
Cincinnati	55.8	56.7	56.8	259.2	269.4	268.3	104.5	105.5	106.9
Cleveland-Lorain-Elyria	76.4	77.0	76.7	349.4	352.5	350.9	146.0	148.2	149.3
Columbus	75.4	77.6	78.1	242.8	247.8	247.3	138.7	138.2	139.7
Dayton-Springfield	19.2	19.3	19.4	139.8	142.4	142.9	72.0	72.2	72.6
Hamilton-Middletown	6.6	7.3	7.3	29.6	30.4	30.4	21.0	21.7	21.9
Lima	2.0	2.1	2.1	19.8	20.7	20.9	10.6	10.6	10.7
Mansfield	2.5	2.4	2.4	19.7	19.9	19.9	10.9	11.4	11.6
Steubenville-Weirton	1.4	1.4	1.4	14.5	14.2	14.4	6.4	6.5	6.5
Toledo	11.4	11.2	11.4	94.8	95.9	95.5	50.3	48.6	49.1
Youngstown-Warren	9.3	9.3	9.4	66.2	67.1	66.7	32.8	32.8	33.2
Oklahoma	74.4	76.7	76.9	409.5	426.0	425.2	283.9	291.7	291.3
Enid	1.1	1.1	1.1	6.8	6.9	6.9	4.2	4.2	4.2
Lawton	1.8	1.9	1.9	8.4	8.6	8.6	12.4	12.3	12.2
Oklahoma City	30.2	31.2	31.2	157.7	164.5	164.9	104.1	105.9	105.9
Tulsa	21.7	22.8	22.8	124.6	130.4	130.2	44.0	44.6	44.2
Oregon	95.2	97.1	96.6	427.1	439.7	439.3	270.1	268.9	271.3
Eugene-Springfield	7.3	7.4	7.4	39.3	40.5	40.3	26.9	26.5	26.7
Medford-Ashland	3.1	3.1	3.1	19.5	20.4	20.0	11.7	11.5	11.7
Portland-Vancouver	67.8	70.2	69.8	267.8	278.5	280.0	125.8	126.5	129.4
Salem	6.7	6.7	6.7	32.7	33.6	33.1	38.8	39.4	39.8
Pennsylvania	318.4	323.2	323.6	1,795.4	1,825.0	1,819.3	722.9	720.1	725.3
Allentown-Bethlehem-Easton	14.1	14.1	14.2	88.0	89.1	88.7	31.7	31.6	32.0
Altoona	1.6	1.6	1.6	16.4	16.7	16.7	8.4	8.7	8.8
Erie	5.4	5.7	5.6	38.2	39.7	39.4	15.9	15.7	15.7
Harrisburg-Lebanon-Carlisle	25.5	25.1	25.0	102.4	104.9	104.4	67.1	66.4	66.9
Johnstown	4.1	4.1	4.2	26.2	25.7	25.8	14.3	14.0	14.4
Lancaster	9.7	9.9	9.9	57.7	58.8	58.6	19.0	19.5	19.6
Philadelphia PMSA	162.4	163.1	163.0	869.2	880.3	884.8	294.9	293.5	295.4
Philadelphia City	51.7	51.1	51.4	302.1	308.7	310.6	113.1	112.7	112.7
Pittsburgh	64.9	65.6	65.6	387.9	396.5	395.1	127.0	124.3	125.8
Reading	8.4	8.8	8.8	42.5	43.4	43.4	20.2	20.2	20.5
Scranton-Wilkes-Barre-Hazleton	14.0	14.3	14.4	81.8	82.7	82.7	35.7	35.6	36.1
Sharon	1.6	1.5	1.5	14.5	14.7	14.8	5.6	5.7	5.8
State College	2.0	2.2	2.2	14.3	15.0	14.7	29.2	28.1	28.7
Williamsport	2.1	2.1	2.2	14.8	14.9	14.8	6.3	6.3	6.3
York	5.1	5.2	5.2	38.3	39.2	39.0	16.5	16.3	16.2

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Total			Mining			Construction		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Rhode Island	467.6	474.8	475.2	.2	.2	.2	15.9	17.0	17.0
Providence-Fall River-Warwick	526.7	533.6	535.2	.2	.3	.3	18.4	19.2	18.9
South Carolina	1,811.2	1,849.1	1,854.5	1.8	1.9	1.9	108.8	114.7	114.9
Charleston-North Charleston	238.3	249.4	250.3	(1)	(1)	(1)	17.7	19.9	20.0
Columbia	296.5	305.3	307.0	(1)	(1)	(1)	16.4	17.9	18.0
Greenville-Spartanburg-Anderson	474.1	484.3	486.7	(1)	(1)	(1)	31.5	33.7	33.7
South Dakota	365.5	366.0	366.8	1.6	1.5	1.4	16.1	17.1	16.9
Rapid City	48.0	49.1	48.6	(1)	(1)	(1)	2.8	3.2	3.2
Sioux Falls	107.3	110.5	110.5	(1)	(1)	(1)	5.1	6.0	5.8
Tennessee	2,677.8	2,697.5	2,702.8	4.2	4.1	4.1	126.9	137.0	135.4
Chattanooga	220.9	220.9	221.0	(1)	(1)	(1)	9.2	10.4	9.9
Johnson City-Kingsport-Bristol	198.0	195.9	196.3	(1)	(1)	(1)	11.1	11.2	11.2
Knoxville	326.4	328.2	327.9	.6	.6	.5	16.0	16.4	16.3
Memphis	596.3	598.8	602.9	(1)	(1)	(1)	28.1	28.0	27.8
Nashville	659.6	666.7	670.8	(1)	(1)	(1)	33.1	33.8	33.4
Texas	9,105.1	9,307.9	9,353.6	162.5	154.0	153.5	510.5	537.9	537.1
Abilene	58.5	58.7	59.1	1.3	1.0	1.1	2.3	2.4	2.5
Amarillo	97.3	99.6	100.1	.7	.6	.6	4.5	4.6	4.5
Austin-San Marcos	615.1	637.9	642.0	1.3	1.3	1.3	34.0	36.5	36.5
Beaumont-Port Arthur	164.2	165.6	166.2	.9	.8	.8	16.4	18.0	17.8
Brazoria	76.0	75.9	75.9	1.5	1.5	1.5	11.2	11.8	11.8
Brownsville-Harlingen-San Benito	100.2	101.5	101.5	(1)	(1)	(1)	3.9	3.9	3.9
Bryan-College Station	75.2	77.5	78.2	.9	.8	.8	3.1	3.4	3.4
Corpus Christi	158.2	158.1	158.6	2.2	2.1	2.1	11.7	11.1	11.2
Dallas	1,868.2	1,923.7	1,930.4	11.7	11.8	11.7	92.6	100.1	100.2
El Paso	248.3	254.4	255.5	(1)	(1)	(1)	11.5	12.2	12.1
Ft. Worth-Arlington	752.8	777.1	780.5	4.6	4.6	4.6	39.7	43.4	43.3
Galveston-Texas City	89.6	90.0	90.2	.8	.7	.7	4.3	4.4	4.4
Houston	2,021.8	2,059.8	2,073.8	68.4	63.9	63.6	140.9	148.1	148.3
Killeen-Temple	100.6	102.0	102.5	(1)	(1)	(1)	4.3	4.5	4.5
Laredo	65.3	67.3	67.7	1.9	1.4	1.4	2.4	2.6	2.5
Longview-Marshall	91.9	92.5	92.8	3.5	3.2	3.1	4.2	4.3	4.3
Lubbock	117.8	119.3	119.9	.1	.1	.1	4.2	4.4	4.3
McAllen-Edinburg-Mission	141.2	144.4	145.7	1.2	1.2	1.2	6.8	7.2	7.2
Odessa-Midland	107.0	105.3	105.8	12.6	11.6	11.5	7.8	7.2	7.2
San Angelo	44.7	45.5	45.5	.6	.5	.5	1.9	2.0	2.0
San Antonio	693.0	711.8	713.7	1.8	1.8	1.8	36.3	37.6	37.6
Sherman-Denison	45.1	45.9	46.1	(1)	(1)	(1)	2.5	2.7	2.6
Texarkana	51.8	52.2	52.4	(1)	(1)	(1)	2.2	2.4	2.3
Tyler	80.9	83.5	83.8	1.6	1.6	1.6	3.2	3.6	3.5
Victoria	36.1	37.0	37.2	1.7	1.7	1.7	2.4	2.5	2.5
Waco	98.9	101.8	101.8	(1)	(1)	(1)	4.8	5.1	5.0
Wichita Falls	60.5	60.5	60.2	1.1	1.0	1.0	2.6	2.5	2.5
Utah	1,045.6	1,066.4	1,074.5	7.9	7.5	7.5	71.9	77.9	77.6
Provo-Orem	144.5	149.5	151.1	(1)	(1)	(1)	9.9	10.7	10.7
Salt Lake City-Ogden	702.4	712.2	717.6	2.8	2.8	2.8	46.2	51.3	50.7
Vermont	290.0	297.5	296.7	.6	.7	.7	15.0	15.6	15.4
Barre-Montpelier	31.0	32.3	31.7	(1)	(1)	(1)	1.5	1.5	1.4
Burlington	102.8	104.7	104.5	(1)	(1)	(1)	5.6	6.1	6.0
Virginia	3,371.5	3,422.1	3,435.8	10.6	9.7	9.7	194.0	204.3	203.9
Bristol	39.3	40.8	40.8	(1)	(1)	(1)	1.6	1.7	1.6
Charlottesville	85.3	87.4	87.5	(1)	(1)	(1)	4.4	4.5	4.5
Danville	45.9	45.9	46.0	(1)	(1)	(1)	2.6	2.9	2.8
Lynchburg	100.4	101.0	101.7	(1)	(1)	(1)	6.0	6.1	6.1
Norfolk-Virginia Beach-Newport News	687.1	696.3	696.7	(1)	(1)	(1)	40.2	41.0	41.4
Northern Virginia	1,057.6	1,094.9	1,102.5	.8	.8	.8	61.5	64.9	64.6
Richmond-Petersburg	541.9	555.4	561.4	.8	.8	.9	33.7	35.0	35.4
Roanoke	147.5	148.9	149.4	(1)	(1)	(1)	8.9	8.8	8.7
Washington	2,647.8	2,686.9	2,697.6	3.4	3.4	3.3	146.0	159.7	155.0
Seattle-Bellevue-Everett	1,379.9	1,392.1	1,403.6	.7	.7	.7	75.8	82.8	80.8
Spokane	191.9	191.4	190.9	(1)	(1)	(1)	10.7	10.9	10.5
Tacoma	240.2	243.1	244.5	.2	.2	.2	14.2	14.6	13.9

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Rhode Island	79.4	78.7	79.2	16.3	16.3	16.2	101.6	103.6	104.3
Providence-Fall River-Warwick	103.0	102.2	102.5	19.0	19.2	19.1	120.2	122.7	124.5
South Carolina	363.9	358.8	359.8	78.1	80.8	81.0	438.9	448.2	452.2
Charleston-North Charleston	22.3	22.7	22.7	12.9	12.9	12.9	59.5	63.0	63.5
Columbia	26.5	26.8	26.9	13.2	13.9	13.9	68.4	70.0	70.9
Greenville-Spartanburg-Anderson	120.7	120.3	120.3	20.8	21.3	21.4	122.1	125.2	126.5
South Dakota	49.8	49.7	49.9	17.0	16.9	16.8	89.5	90.0	90.4
Rapid City	4.7	4.6	4.6	2.0	2.0	1.9	13.5	13.9	13.8
Sioux Falls	14.7	14.9	14.8	7.0	7.0	7.0	26.4	27.9	27.9
Tennessee	510.2	507.0	506.1	159.1	163.2	163.2	641.9	644.7	653.8
Chattanooga	44.4	44.6	44.5	11.7	11.7	11.7	49.4	48.3	48.9
Johnson City-Kingsport-Bristol	49.0	46.9	46.7	7.8	8.0	8.0	45.9	45.8	46.2
Knoxville	47.3	46.9	46.9	14.1	14.3	14.5	88.8	89.5	89.8
Memphis	63.4	62.5	62.4	70.8	73.6	74.8	149.9	149.7	152.4
Nashville	94.7	96.9	97.7	32.4	33.1	33.2	163.5	163.8	166.6
Texas	1,108.0	1,101.5	1,101.4	552.9	568.1	571.5	2,149.2	2,168.5	2,198.2
Abilene	3.6	3.6	3.5	2.6	2.6	2.6	15.7	16.3	16.5
Amarillo	9.4	9.2	9.2	5.4	5.6	5.7	27.4	28.3	28.4
Austin-San Marcos	82.2	85.7	86.2	20.5	21.7	21.9	133.8	139.9	141.5
Beaumont-Port Arthur	26.6	26.0	25.9	8.1	8.1	8.1	37.8	37.4	37.9
Brazoria	15.3	14.0	13.9	2.8	2.8	2.7	15.3	15.5	15.7
Brownsville-Harlingen-San Benito	12.2	12.2	11.8	4.7	4.9	4.9	23.9	24.5	24.6
Bryan-College Station	4.7	5.4	5.4	1.6	1.6	1.6	15.7	16.2	16.4
Corpus Christi	13.4	13.7	13.7	6.6	6.7	6.7	36.3	36.1	36.4
Dallas	253.6	256.4	256.3	128.2	131.3	131.7	452.9	458.7	464.0
El Paso	41.3	42.1	41.8	14.3	15.2	15.3	59.6	60.0	61.0
Ft. Worth-Arlington	112.4	113.6	113.6	71.5	74.7	75.1	189.4	194.2	197.3
Galveston-Texas City	8.3	8.1	8.1	4.1	4.5	4.5	19.8	19.9	20.1
Houston	219.3	212.6	213.3	143.3	146.0	146.6	461.9	470.7	479.4
Killeen-Temple	9.4	9.7	9.7	3.4	3.3	3.3	23.6	23.8	24.1
Laredo	1.8	1.7	1.7	11.4	12.1	12.1	17.4	17.6	18.0
Longview-Marshall	19.8	19.6	19.7	4.1	4.1	4.0	23.4	23.9	24.1
Lubbock	7.8	7.3	7.3	5.8	6.0	6.2	33.0	33.1	33.6
McAllen-Edinburg-Mission	12.4	12.1	12.1	5.2	5.4	5.4	39.0	39.7	40.5
Odessa-Midland	7.3	6.6	6.8	4.0	3.9	3.9	28.1	28.1	28.4
San Angelo	4.8	5.0	5.0	2.9	3.1	3.2	10.3	10.5	10.5
San Antonio	52.5	53.0	53.0	32.6	32.4	32.4	167.8	169.3	171.3
Sherman-Denison	10.0	10.0	10.0	1.7	1.7	1.7	10.0	9.8	10.0
Texarkana	5.5	5.6	5.5	2.7	2.8	2.9	14.0	14.0	14.2
Tyler	10.8	11.0	10.9	3.8	3.8	3.8	21.5	22.3	22.7
Victoria	3.2	3.2	3.2	1.6	1.6	1.6	9.7	9.9	10.0
Waco	16.4	16.6	16.6	3.9	4.1	4.0	22.8	23.3	23.5
Wichita Falls	8.6	8.2	7.7	2.9	3.0	2.9	14.2	14.3	14.5
Utah	135.1	132.9	134.0	59.6	60.4	60.3	248.3	249.2	253.8
Provo-Orem	20.3	19.6	19.9	2.4	2.3	2.3	32.6	34.3	35.4
Salt Lake City-Ogden	83.4	82.4	82.7	46.5	47.4	47.2	172.5	169.6	173.0
Vermont	48.9	49.3	49.6	12.6	12.7	12.4	66.2	67.1	67.2
Barre-Montpelier	3.7	4.0	4.1	1.2	1.3	1.3	6.6	7.0	6.8
Burlington	19.1	18.9	19.3	4.7	4.7	4.6	22.6	22.4	22.3
Virginia	403.8	400.7	402.1	176.1	186.2	186.5	755.1	748.2	756.8
Bristol	9.2	9.5	9.5	1.3	1.3	1.3	11.2	11.6	11.7
Charlottesville	8.6	8.6	8.5	2.4	2.6	2.6	17.0	16.7	17.0
Danville	15.1	15.0	14.9	1.0	1.0	1.0	9.8	9.3	9.6
Lynchburg	25.4	24.7	24.7	3.5	3.6	3.6	21.2	20.8	21.2
Norfolk-Virginia Beach-Newport News	70.5	70.9	70.9	31.4	32.5	33.3	164.4	163.4	164.5
Northern Virginia	44.1	43.3	43.4	65.7	73.3	73.5	222.5	224.0	228.2
Richmond-Petersburg	60.8	61.6	61.7	28.8	30.1	30.2	128.5	128.7	131.3
Roanoke	19.0	19.0	19.0	9.1	9.1	9.1	37.9	37.9	38.3
Washington	376.8	363.6	360.3	138.6	142.1	141.8	644.2	653.7	662.4
Seattle-Bellevue-Everett	227.5	210.5	209.6	81.6	84.3	84.6	325.9	329.1	335.3
Spokane	20.1	20.7	20.7	8.2	8.3	8.3	49.6	49.3	49.6
Tacoma	24.8	23.6	23.7	9.1	9.8	9.8	60.6	59.4	60.9

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Rhode Island	29.3	29.9	29.9	159.8	163.3	162.4	65.1	65.8	66.0
Providence-Fall River-Warwick	31.2	31.7	31.8	168.7	172.2	171.7	66.0	66.1	66.4
South Carolina	80.7	84.0	83.9	423.2	440.0	438.6	315.8	320.7	322.2
Charleston-North Charleston	8.6	8.8	8.8	66.0	70.7	70.8	51.3	51.4	51.6
Columbia	22.3	23.2	23.3	73.7	77.4	77.5	76.0	76.1	76.5
Greenville-Spartanburg-Anderson	16.5	16.4	16.6	103.2	108.2	108.6	59.3	59.2	59.6
South Dakota	23.2	23.5	23.6	94.4	95.8	96.0	73.9	71.5	71.8
Rapid City	2.9	3.2	3.2	14.4	14.5	14.1	7.7	7.7	7.8
Sioux Falls	12.4	12.4	12.4	31.4	32.5	32.7	10.3	9.8	9.9
Tennessee	127.4	127.6	127.7	715.7	725.5	723.2	392.4	388.4	389.3
Chattanooga	15.7	15.5	15.5	57.6	57.5	57.5	32.9	32.9	33.0
Johnson City-Kingsport-Bristol	6.1	6.2	6.2	48.4	48.4	48.4	29.7	29.4	29.6
Knoxville	14.9	15.3	15.3	88.7	90.1	89.5	56.0	55.1	55.1
Memphis	28.2	29.1	29.2	172.5	173.8	173.6	83.4	82.1	82.7
Nashville	42.4	42.4	42.5	207.8	210.1	210.6	85.7	86.6	86.8
Texas	504.7	523.7	524.6	2,561.8	2,671.6	2,673.6	1,555.5	1,582.6	1,593.7
Abilene	2.6	2.6	2.6	20.0	20.2	20.2	10.4	10.0	10.1
Amarillo	5.2	5.3	5.3	27.4	28.5	28.6	17.3	17.5	17.8
Austin-San Marcos	32.1	33.1	33.1	178.9	186.6	187.8	132.3	133.1	133.7
Beaumont-Port Arthur	5.3	5.3	5.3	42.3	43.0	43.1	26.8	27.0	27.3
Brazoria	1.9	1.9	1.9	13.7	13.8	13.7	14.3	14.6	14.7
Brownsville-Harlingen-San Benito	3.6	3.7	3.6	28.0	27.8	27.9	23.9	24.5	24.8
Bryan-College Station	2.7	2.7	2.7	15.9	16.2	16.1	30.6	31.2	31.8
Corpus Christi	6.2	6.3	6.3	50.4	51.5	51.5	31.4	30.6	30.7
Dallas	153.6	159.6	159.9	568.6	594.4	593.6	207.0	211.4	213.0
El Paso	9.7	9.8	9.9	58.5	60.8	60.9	53.4	54.3	54.5
Ft. Worth-Arlington	35.3	36.9	37.0	204.1	212.5	212.0	95.8	97.2	97.6
Galveston-Texas City	6.0	6.2	6.2	19.1	19.7	19.7	27.2	26.5	26.5
Houston	108.2	111.8	112.2	618.0	637.0	639.2	261.8	269.7	271.2
Killeen-Temple	4.2	4.5	4.5	27.5	28.0	28.1	28.2	28.2	28.3
Laredo	2.4	2.6	2.5	12.9	13.6	13.7	15.1	15.7	15.8
Longview-Marshall	3.7	3.9	3.9	21.5	21.7	21.8	11.7	11.8	11.9
Lubbock	5.9	6.0	6.0	35.0	36.1	36.0	26.0	26.3	26.4
McAllen-Edinburg-Mission	5.2	5.3	5.3	32.7	33.4	33.4	38.7	40.1	40.6
Odessa-Midland	3.9	3.9	3.9	25.0	25.6	25.7	18.3	18.4	18.4
San Angelo	1.8	2.0	2.0	12.9	13.0	12.9	9.5	9.4	9.4
San Antonio	46.0	47.7	47.9	219.6	236.2	235.2	136.4	133.8	134.5
Sherman-Denison	2.6	2.6	2.6	12.2	12.9	13.1	6.1	6.2	6.1
Texarkana	1.7	1.4	1.4	14.5	14.7	14.6	11.2	11.3	11.5
Tyler	4.1	4.1	4.1	24.5	25.6	25.6	11.4	11.5	11.6
Victoria	1.5	1.5	1.5	9.6	10.1	10.1	6.4	6.5	6.6
Waco	6.1	6.3	6.3	29.6	30.8	30.8	15.3	15.6	15.6
Wichita Falls	2.3	2.4	2.4	16.0	16.0	16.0	12.8	13.1	13.2
Utah	56.4	59.5	59.6	284.4	295.4	296.3	182.0	183.6	185.4
Provo-Orem	4.4	4.9	4.9	54.6	57.5	57.6	20.3	20.2	20.3
Salt Lake City-Ogden	45.6	48.1	48.4	191.4	194.0	194.8	114.0	116.6	118.0
Vermont	12.4	13.1	13.1	85.0	89.3	88.4	49.3	49.7	49.9
Barre-Montpelier	2.4	2.6	2.5	8.4	8.9	8.6	7.2	7.0	7.0
Burlington	4.8	4.9	4.9	29.5	31.1	30.6	16.5	16.6	16.8
Virginia	177.0	180.0	180.5	1,038.5	1,075.2	1,072.1	616.4	617.8	624.2
Bristol	1.4	1.4	1.4	8.8	9.3	9.3	5.8	6.0	6.0
Charlottesville	4.5	4.9	4.8	20.9	22.1	22.1	27.5	28.0	28.0
Danville	1.4	1.6	1.6	10.1	10.2	10.1	5.9	5.9	6.0
Lynchburg	4.2	4.3	4.3	26.7	28.0	28.2	13.4	13.5	13.6
Norfolk-Virginia Beach-Newport News	32.7	33.3	33.2	202.2	208.0	205.7	145.7	147.2	147.7
Northern Virginia	59.7	62.1	61.9	420.5	442.6	444.2	182.8	183.9	185.9
Richmond-Petersburg	45.5	48.1	48.4	139.5	146.3	146.2	104.3	104.8	107.3
Roanoke	10.3	10.5	10.6	44.1	45.9	45.8	18.2	17.7	17.9
Washington	137.2	141.8	142.3	721.0	745.9	744.8	480.6	476.7	487.7
Seattle-Bellevue-Everett	83.1	85.4	86.2	396.0	410.0	412.1	189.3	189.3	194.3
Spokane	11.0	11.4	11.4	59.5	58.3	57.9	32.8	32.5	32.5
Tacoma	12.6	13.1	13.2	68.8	73.3	72.7	49.9	49.1	50.1

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Total			Mining			Construction		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
West Virginia	730.4	734.8	734.9	22.9	20.5	20.5	36.5	37.1	36.0
Charleston	133.8	135.2	136.0	1.9	1.8	1.8	6.7	7.3	7.2
Huntington-Ashland	124.0	124.8	125.1	1.4	1.3	1.3	5.5	5.7	5.6
Parkersburg-Marietta	71.9	72.0	72.6	.3	.3	.3	4.7	4.7	4.7
Wheeling	67.7	67.8	68.4	1.6	1.5	1.5	2.8	3.0	2.9
Wisconsin	2,753.0	2,775.4	2,778.0	2.9	2.9	2.8	120.0	125.1	123.3
Appleton-Oshkosh-Neenah	200.0	204.5	205.0	(1)	(1)	(1)	11.7	12.4	12.5
Eau Claire	76.3	77.1	76.9	(1)	(1)	(1)	3.2	3.6	3.3
Green Bay	138.5	141.7	142.1	(1)	(1)	(1)	7.1	7.5	7.5
Janesville-Beloit	70.5	69.7	68.9	(1)	(1)	(1)	2.7	3.0	2.9
Kenosha	54.8	55.1	55.6	(1)	(1)	(1)	2.4	2.5	2.5
La Crosse	71.9	73.4	73.4	(1)	(1)	(1)	2.8	3.3	3.1
Madison	283.5	286.4	289.2	(1)	(1)	(1)	14.1	14.6	14.7
Milwaukee-Waukesha	859.7	864.4	866.5	(1)	(1)	(1)	33.1	34.4	34.3
Racine	82.5	82.5	82.5	(1)	(1)	(1)	3.7	3.8	3.7
Sheboygan	59.5	60.1	60.2	(1)	(1)	(1)	2.5	2.5	2.5
Wausau	68.2	69.0	69.7	(1)	(1)	(1)	3.3	3.3	3.3
Wyoming	226.2	234.9	230.6	16.9	16.0	16.0	16.2	18.1	17.4
Casper	30.8	32.1	31.7	2.0	1.9	1.8	1.9	2.4	2.2
Puerto Rico	981.9	971.0	976.4	1.3	1.5	1.5	59.7	60.1	60.9
Caguas	67.6	67.0	67.3	(1)	(1)	(1)	3.1	2.6	2.6
Mayaguez	70.4	65.1	66.3	(1)	(1)	(1)	4.3	3.8	3.9
Ponce	75.6	76.2	77.8	(1)	(1)	(1)	6.1	6.3	6.9
San Juan-Bayamon	611.5	604.8	606.1	.6	.7	.7	40.8	41.6	41.7
Virgin Islands	41.7	(2)	(2)	(1)	(1)	(1)	1.9	(2)	(2)

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
West Virginia	82.6	83.0	83.0	39.5	39.5	39.5	167.6	166.1	167.6
Charleston	9.9	10.3	10.3	9.2	9.6	9.7	32.7	32.9	33.5
Huntington-Ashland	15.9	16.1	15.9	7.0	7.0	7.0	32.1	32.0	32.2
Parkersburg-Marietta	12.9	12.5	12.5	2.7	2.7	2.6	18.3	18.6	18.9
Wheeling	6.2	6.3	6.2	2.9	2.7	2.7	17.3	17.2	17.7
Wisconsin	614.4	610.6	609.5	129.6	130.6	130.0	621.6	620.4	627.5
Appleton-Oshkosh-Neenah	59.9	60.0	60.2	8.5	9.4	9.4	42.7	43.0	43.4
Eau Claire	13.9	13.6	13.5	3.5	3.6	3.5	20.9	20.7	20.9
Green Bay	28.7	29.1	29.2	9.8	10.0	10.1	32.1	33.0	33.4
Janesville-Beloit	20.7	19.4	18.4	3.0	2.8	2.7	16.6	17.0	17.1
Kenosha	12.4	11.5	11.5	1.9	1.9	1.9	13.1	13.3	13.6
La Crosse	12.1	11.4	11.4	3.4	3.8	3.7	19.4	19.8	20.2
Madison	29.2	29.9	30.1	9.6	10.0	10.0	62.6	62.2	63.7
Milwaukee-Waukesha	178.9	175.6	176.1	41.4	41.9	41.2	183.0	181.1	184.4
Racine	25.3	23.7	24.0	2.6	2.7	2.7	17.6	17.4	17.6
Sheboygan	24.7	25.1	25.1	1.8	1.8	1.8	10.7	10.7	10.8
Wausau	19.3	19.1	19.1	3.4	3.2	3.2	17.2	17.5	17.9
Wyoming	11.1	11.7	11.5	13.9	14.4	14.4	51.8	53.4	52.7
Casper	1.5	1.5	1.5	1.8	1.8	1.7	8.4	8.5	8.6
Puerto Rico	145.2	137.1	137.3	26.8	27.6	27.4	204.0	201.4	203.5
Caguas	15.4	15.0	14.9	1.1	1.1	1.1	15.8	16.1	16.2
Mayaguez	18.7	13.7	14.6	.8	.8	.8	12.4	12.3	12.4
Ponce	9.2	9.3	9.1	2.2	2.4	2.2	13.9	13.8	14.5
San Juan-Bayamon	65.6	64.7	65.0	20.0	20.1	20.0	134.4	132.4	132.9
Virgin Islands	2.4	(²)	(²)	2.4	(²)	(²)	9.0	(²)	(²)

See footnotes at end of table.

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

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	November 1998	October 1999	November 1999 ^P	November 1998	October 1999	November 1999 ^P	November 1998	October 1999	November 1999 ^P
West Virginia	28.9	29.5	29.3	210.4	215.8	215.5	142.0	143.3	143.5
Charleston	8.1	8.0	8.0	41.3	41.4	41.2	24.0	23.9	24.3
Huntington-Ashland	4.2	4.8	4.8	36.1	36.0	36.2	21.8	21.9	22.1
Parkersburg-Marietta	2.6	2.7	2.7	20.9	21.1	21.5	9.5	9.4	9.4
Wheeling	2.7	2.6	2.7	24.1	24.4	24.5	10.1	10.1	10.2
Wisconsin	145.0	149.6	149.8	712.6	732.1	726.4	406.9	404.3	408.8
Appleton-Oshkosh-Neenah	9.7	10.3	10.3	44.4	46.1	45.8	23.2	23.3	23.3
Eau Claire	2.6	3.0	3.0	19.9	20.2	20.2	12.3	12.4	12.5
Green Bay	9.9	9.8	9.8	34.4	35.5	35.3	16.5	16.7	16.8
Janesville-Beloit	2.0	2.1	2.1	16.8	16.6	16.8	8.7	8.8	8.8
Kenosha	1.8	1.8	1.8	14.6	15.2	15.2	8.6	9.0	9.0
La Crosse	2.6	2.7	2.7	21.0	21.7	21.6	10.6	10.7	10.8
Madison	21.7	22.3	22.3	71.9	73.7	73.5	74.5	73.6	75.0
Milwaukee-Waukesha	58.8	59.3	59.5	271.2	280.4	278.1	93.2	91.7	92.9
Racine	2.4	2.5	2.5	21.5	22.7	22.3	9.5	9.7	9.8
Sheboygan	2.2	2.2	2.2	11.1	11.4	11.3	6.4	6.5	6.6
Wausau	5.1	5.5	5.5	12.3	12.8	12.9	7.7	7.6	7.7
Wyoming	8.6	8.5	8.5	47.7	52.1	49.4	60.0	60.7	60.7
Casper	1.2	1.2	1.2	8.5	9.1	9.1	5.5	5.7	5.6
Puerto Rico	46.9	45.3	44.9	198.2	199.9	200.8	299.8	298.1	300.1
Caguas	1.7	1.4	1.4	12.3	12.4	12.4	18.2	18.4	18.7
Mayaguez	2.0	1.9	1.9	11.2	11.9	11.9	21.0	20.7	20.8
Ponce	2.2	2.3	2.2	17.1	17.5	17.8	24.9	24.6	25.1
San Juan-Bayamon	36.6	35.4	35.0	133.1	131.4	131.8	180.4	178.5	179.0
Virgin Islands	1.9	(²)	(²)	10.4	(²)	(²)	13.7	(²)	(²)

¹ Combined with construction.

² 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 1998 benchmarks.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Total private		34.7	34.7	34.6	34.5	34.6	-	-	-	-	-
Goods-producing		41.2	41.7	41.5	41.5	41.6	-	-	-	-	-
Mining		43.8	43.7	44.6	44.7	45.2	-	-	-	-	-
Metal mining	10	44.3	43.8	44.5	44.8	-	-	-	-	-	-
Iron ores	101	43.5	43.5	45.6	44.2	-	-	-	-	-	-
Copper ores	102	46.8	46.6	48.3	48.0	-	-	-	-	-	-
Coal mining	12	45.8	45.7	44.4	44.9	-	-	-	-	-	-
Bituminous coal and lignite mining	122	45.8	45.7	44.6	45.0	-	-	-	-	-	-
Oil and gas extraction	13	42.6	42.2	43.9	43.8	-	-	-	-	-	-
Crude petroleum and natural gas	131	42.0	42.6	40.3	39.8	-	-	-	-	-	-
Oil and gas field services	138	42.9	42.1	46.0	46.2	-	-	-	-	-	-
Nonmetallic minerals, except fuels	14	45.8	45.9	46.8	46.6	-	-	-	-	-	-
Crushed and broken stone	142	47.9	48.2	48.3	48.2	-	-	-	-	-	-
Construction		38.6	39.1	40.0	39.5	38.7	-	-	-	-	-
General building contractors	15	37.9	38.5	38.5	38.5	-	-	-	-	-	-
Residential building construction	152	36.7	37.2	37.5	37.3	-	-	-	-	-	-
Operative builders	153	35.3	37.6	37.5	36.9	-	-	-	-	-	-
Nonresidential building construction	154	39.1	39.8	39.6	39.7	-	-	-	-	-	-
Heavy construction, except building	16	41.2	41.2	44.5	43.4	-	-	-	-	-	-
Highway and street construction	161	40.3	39.8	46.1	44.0	-	-	-	-	-	-
Heavy construction, except highway	162	41.6	41.8	43.7	43.1	-	-	-	-	-	-
Special trade contractors	17	38.1	38.8	39.3	39.0	-	-	-	-	-	-
Plumbing, heating, and air conditioning	171	39.3	39.8	39.6	39.0	-	-	-	-	-	-
Painting and paper hanging	172	36.7	37.1	38.2	37.6	-	-	-	-	-	-
Electrical work	173	39.8	40.7	40.0	39.6	-	-	-	-	-	-
Masonry, stonework, and plastering	174	35.9	36.6	36.7	36.7	-	-	-	-	-	-
Carpentry and floor work	175	37.1	37.0	37.3	37.5	-	-	-	-	-	-
Roofing, siding, and sheet metal work	176	34.1	35.3	36.8	36.7	-	-	-	-	-	-
Manufacturing		42.2	42.6	42.0	42.2	42.6	4.8	4.9	4.9	4.9	5.1
Durable goods		42.8	43.3	42.5	42.7	43.1	4.9	5.2	4.9	5.0	5.3
Lumber and wood products	24	41.5	41.7	41.4	41.3	41.2	4.6	4.7	4.5	4.3	-
Logging	241	40.4	39.4	42.2	41.3	-	5.3	5.1	5.4	4.7	-
Sawmills and planing mills	242	42.4	42.7	43.0	43.0	-	4.9	5.1	5.4	5.2	-
Sawmills and planing mills, general	2421	42.9	43.0	43.5	43.5	-	5.3	5.4	5.9	5.7	-
Hardwood dimension and flooring mills	2426	41.3	42.0	41.8	41.8	-	3.6	4.0	3.8	3.7	-
Millwork, plywood, and structural members	243	42.4	43.0	41.7	41.8	-	5.1	5.4	4.7	4.5	-
Millwork	2431	42.4	42.9	41.4	41.7	-	4.7	4.4	4.2	4.1	-
Wood kitchen cabinets	2434	41.4	42.6	41.5	41.7	-	4.8	5.9	5.0	4.8	-
Hardwood veneer and plywood	2435	42.9	42.4	42.8	42.8	-	5.8	5.3	5.1	5.0	-
Softwood veneer and plywood	2436	44.3	44.5	41.4	41.6	-	6.7	6.9	5.4	5.3	-
Wood containers	244	39.1	39.8	39.2	39.7	-	3.4	4.0	3.5	3.8	-
Wood buildings and mobile homes	245	39.4	39.3	38.5	38.3	-	2.8	2.7	2.5	2.3	-
Mobile homes	2451	39.4	39.4	38.2	38.0	-	2.6	2.6	2.2	1.9	-
Miscellaneous wood products	249	41.2	41.1	40.7	40.8	-	4.0	3.7	4.1	4.0	-
Furniture and fixtures	25	40.9	41.5	40.5	40.5	41.6	3.6	4.0	3.8	3.7	-
Household furniture	251	39.8	40.8	39.5	39.7	-	2.9	3.5	3.2	3.2	-
Wood household furniture	2511	40.4	40.5	39.7	39.9	-	3.3	3.3	3.3	3.3	-
Upholstered household furniture	2512	39.3	41.5	39.3	39.5	-	2.4	3.7	3.1	3.0	-
Metal household furniture	2514	39.8	41.0	40.9	41.0	-	3.4	4.0	2.7	3.0	-
Mattresses and bedsprings	2515	38.6	39.9	39.0	39.3	-	2.7	3.4	3.2	3.4	-
Office furniture	252	43.8	43.4	42.4	43.5	-	4.5	4.6	4.8	5.2	-
Public building and related furniture	253	41.0	41.9	41.7	40.5	-	4.7	5.4	5.2	4.2	-
Partitions and fixtures	254	42.2	42.2	41.7	41.1	-	4.3	4.4	4.4	4.2	-
Miscellaneous furniture and fixtures	259	41.2	41.6	40.1	40.5	-	4.4	4.4	3.7	3.8	-

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Total private		\$13.00	\$13.00	\$13.41	\$13.44	\$13.48	\$451.10	\$451.10	\$463.99	\$463.68	\$466.41
Goods-producing		14.50	14.56	15.04	15.03	15.10	597.40	607.15	624.16	623.75	628.16
Mining		17.29	17.29	17.00	16.94	17.22	757.30	755.57	758.20	757.22	778.34
Metal mining	10	18.45	18.22	18.48	18.43	—	817.34	798.04	822.36	825.66	—
Iron ores	101	20.39	20.37	20.34	20.09	—	886.97	886.10	927.50	887.98	—
Copper ores	102	17.10	16.87	16.48	16.36	—	800.28	786.14	795.98	785.28	—
Coal mining	12	19.24	19.41	19.31	19.35	—	881.19	887.04	857.36	868.82	—
Bituminous coal and lignite mining	122	19.49	19.67	19.53	19.59	—	892.64	898.92	871.04	881.55	—
Oil and gas extraction	13	17.33	17.30	16.74	16.60	—	738.26	730.06	734.89	727.08	—
Crude petroleum and natural gas	131	23.49	23.49	23.15	23.08	—	986.58	1,000.67	932.95	918.58	—
Oil and gas field services	138	14.18	13.94	13.50	13.32	—	608.32	586.87	621.00	615.38	—
Nonmetallic minerals, except fuels	14	14.94	14.94	15.30	15.25	—	684.25	685.75	716.04	710.65	—
Crushed and broken stone	142	14.11	14.15	14.68	14.61	—	675.87	682.03	709.04	704.20	—
Construction		16.82	16.87	17.49	17.38	17.43	649.25	659.62	699.60	686.51	674.54
General building contractors	15	16.18	16.24	16.80	16.72	—	613.22	625.24	646.80	643.72	—
Residential building construction	152	15.08	15.10	15.52	15.49	—	553.44	561.72	582.00	577.78	—
Operative builders	153	15.39	15.16	15.77	15.71	—	543.27	570.02	591.38	579.70	—
Nonresidential building construction	154	17.22	17.30	18.07	17.93	—	673.30	688.54	715.57	711.82	—
Heavy construction, except building	16	16.42	16.25	17.35	16.95	—	676.50	669.50	772.08	735.63	—
Highway and street construction	161	16.30	16.02	17.87	17.15	—	656.89	637.60	823.81	754.60	—
Heavy construction, except highway	162	16.47	16.33	17.09	16.85	—	685.15	682.59	746.83	726.24	—
Special trade contractors	17	17.13	17.23	17.74	17.69	—	652.65	668.52	697.18	689.91	—
Plumbing, heating, and air conditioning	171	17.32	17.50	17.93	17.88	—	680.68	696.50	710.03	697.32	—
Painting and paper hanging	172	15.53	15.45	15.89	15.75	—	569.95	573.20	607.00	592.20	—
Electrical work	173	18.69	18.82	19.41	19.49	—	743.86	765.97	776.40	771.80	—
Masonry, stonework, and plastering	174	16.87	16.93	17.29	17.29	—	605.63	619.64	634.54	634.54	—
Carpentry and floor work	175	16.75	16.63	17.39	17.66	—	621.43	615.31	648.65	662.25	—
Roofing, siding, and sheet metal work	176	15.00	15.18	15.61	15.40	—	511.50	535.85	574.45	565.18	—
Manufacturing		13.60	13.69	14.04	14.09	14.22	573.92	583.19	589.68	594.60	605.77
Durable goods		14.07	14.16	14.55	14.58	14.73	602.20	613.13	618.38	622.57	634.86
Lumber and wood products	24	11.24	11.33	11.59	11.60	11.68	466.46	472.46	479.83	479.08	481.22
Logging	241	12.76	12.84	13.59	13.53	—	515.50	505.90	573.50	558.79	—
Sawmills and planing mills	242	11.21	11.24	11.44	11.50	—	475.30	479.95	491.92	494.50	—
Sawmills and planing mills, general	2421	11.66	11.71	11.93	11.96	—	500.21	503.53	518.96	520.26	—
Hardwood dimension and flooring mills	2426	9.60	9.54	9.76	9.88	—	396.48	400.68	407.97	412.98	—
Millwork, plywood, and structural members	243	11.40	11.54	11.72	11.74	—	483.36	496.22	488.72	490.73	—
Millwork	2431	11.50	11.47	11.82	11.85	—	487.60	492.06	489.35	494.15	—
Wood kitchen cabinets	2434	11.22	11.69	11.74	11.75	—	464.51	497.99	487.21	489.98	—
Hardwood veneer and plywood	2435	10.17	10.25	10.42	10.43	—	436.29	434.60	445.98	446.40	—
Softwood veneer and plywood	2436	13.60	13.46	14.16	14.06	—	602.48	598.97	586.22	584.90	—
Wood containers	244	9.02	9.13	9.38	9.36	—	352.68	363.37	367.70	371.59	—
Wood buildings and mobile homes	245	11.43	11.55	11.64	11.66	—	450.34	453.92	448.14	446.58	—
Mobile homes	2451	11.60	11.74	11.83	11.85	—	457.04	462.56	451.91	450.30	—
Miscellaneous wood products	249	10.61	10.62	10.89	10.95	—	437.13	436.48	443.22	446.76	—
Furniture and fixtures	25	10.99	11.10	11.33	11.35	11.49	449.49	460.65	458.87	459.68	477.98
Household furniture	251	10.38	10.52	10.78	10.79	—	413.12	429.22	425.81	428.36	—
Wood household furniture	2511	10.00	10.05	10.27	10.27	—	404.00	407.03	407.72	409.77	—
Upholstered household furniture	2512	11.12	11.32	11.66	11.64	—	437.02	469.78	458.24	459.78	—
Metal household furniture	2514	9.78	9.73	9.99	10.01	—	389.24	398.93	408.59	410.41	—
Mattresses and bedsprings	2515	10.86	11.16	11.33	11.51	—	419.20	445.28	441.87	452.34	—
Office furniture	252	11.87	12.03	12.03	12.19	—	519.91	522.10	510.07	530.27	—
Public building and related furniture	253	12.33	12.53	12.47	12.25	—	505.53	525.01	520.00	496.13	—
Partitions and fixtures	254	11.59	11.56	11.95	12.04	—	489.10	487.83	498.32	494.84	—
Miscellaneous furniture and fixtures	259	11.05	11.19	11.41	11.50	—	455.26	465.50	457.54	465.75	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Stone, clay, and glass products	32	43.8	43.8	44.0	44.1	43.1	6.4	6.3	6.8	6.7	—
Flat glass	321	42.6	43.5	43.5	42.1	—	6.9	7.4	5.4	5.1	—
Glass and glassware, pressed or blown	322	42.9	42.8	42.4	42.3	—	5.5	5.4	5.3	5.3	—
Glass containers	3221	44.6	44.6	43.5	43.2	—	6.7	6.6	6.1	5.6	—
Pressed and blown glass, nec	3229	41.9	41.7	41.8	41.8	—	4.8	4.6	4.9	5.1	—
Products of purchased glass	323	43.6	43.5	42.7	43.7	—	5.2	5.5	4.9	5.6	—
Cement, hydraulic	324	44.9	44.2	43.7	44.6	—	5.4	5.2	5.6	6.0	—
Structural clay products	325	42.1	42.7	41.8	41.8	—	5.0	5.1	5.4	5.3	—
Pottery and related products	326	41.8	42.7	41.7	42.0	—	5.0	5.2	4.7	4.7	—
Concrete, gypsum, and plaster products	327	45.1	44.8	45.8	45.6	—	8.0	7.5	8.8	8.5	—
Concrete block and brick	3271	47.7	47.9	47.4	47.2	—	9.9	9.8	9.9	9.5	—
Concrete products, nec	3272	45.2	44.8	44.5	44.5	—	7.8	7.2	7.5	7.3	—
Ready-mixed concrete	3273	44.1	43.7	46.3	45.7	—	7.5	7.0	9.5	9.0	—
Misc. nonmetallic mineral products	329	43.0	44.1	43.3	44.1	—	5.4	5.9	5.7	5.8	—
Abrasive products	3291	41.9	42.8	43.4	43.9	—	2.9	3.3	3.7	3.7	—
Asbestos products	3292	48.8	52.9	46.5	45.9	—	10.9	11.8	9.6	8.9	—
Primary metal industries	33	44.2	44.6	44.3	44.7	45.4	6.3	6.5	6.7	6.9	—
Blast furnaces and basic steel products	331	43.7	43.7	44.9	45.4	46.3	5.2	5.3	6.5	6.8	—
Blast furnaces and steel mills	3312	44.1	43.5	45.3	45.8	—	5.4	5.1	6.8	7.3	—
Steel pipe and tubes	3317	43.7	45.8	44.8	45.5	—	5.5	6.7	6.3	6.4	—
Iron and steel foundries	332	45.0	45.7	44.4	45.0	—	6.5	6.8	6.8	6.9	—
Gray and ductile iron foundries	3321	45.8	47.0	45.8	46.7	—	7.4	8.0	7.9	8.2	—
Malleable iron foundries	3322	46.5	44.0	42.0	43.9	—	7.7	6.9	7.3	8.1	—
Steel foundries, nec	3325	43.9	43.8	42.2	41.6	—	5.3	5.2	4.5	4.1	—
Primary nonferrous metals	333	43.3	43.9	43.9	44.8	—	7.3	6.8	7.0	7.8	—
Primary aluminum	3334	44.0	44.4	44.2	44.8	—	8.2	7.1	7.7	8.5	—
Nonferrous rolling and drawing	335	44.3	44.6	44.2	44.7	—	7.5	7.9	7.8	8.0	—
Copper rolling and drawing	3351	44.5	44.8	42.6	43.3	—	8.6	8.6	8.4	8.7	—
Aluminum sheet, plate, and foil	3353	42.3	43.7	42.3	43.3	—	9.4	10.1	9.1	10.0	—
Nonferrous wire drawing and insulating	3357	44.8	45.1	44.2	44.8	—	7.2	7.7	7.7	7.8	—
Nonferrous foundries (castings)	336	44.5	45.2	43.3	43.5	—	5.8	6.2	5.3	5.5	—
Aluminum foundries	3365	45.0	45.1	43.6	43.9	—	6.1	6.3	5.3	6.0	—
Fabricated metal products	34	42.8	43.4	42.4	42.7	43.4	4.9	5.3	4.9	5.0	—
Metal cans and shipping containers	341	44.0	44.0	45.1	45.3	—	6.7	6.6	7.1	7.2	—
Metal cans	3411	44.1	43.9	45.3	45.5	—	6.7	6.5	7.1	7.1	—
Cutlery, handtools, and hardware	342	42.9	43.6	42.2	42.9	—	4.6	4.9	4.2	4.5	—
Hand and edge tools, and blades and handsaws	3423,5	44.1	44.3	43.4	43.6	—	5.3	5.0	4.2	4.4	—
Hardware, nec	3429	42.3	43.7	41.6	42.6	—	4.1	5.0	4.0	4.5	—
Plumbing and heating, except electric	343	43.3	43.6	44.0	43.8	—	4.0	4.6	4.9	4.8	—
Plumbing fixture fittings and trim	3432	41.4	42.5	42.1	41.6	—	3.3	4.2	3.9	3.7	—
Heating equipment, except electric	3433	43.5	42.8	43.3	43.4	—	5.0	4.6	4.6	4.8	—
Fabricated structural metal products	344	42.9	43.5	42.3	42.4	—	5.2	5.5	4.9	4.9	—
Fabricated structural metal	3441	44.7	46.4	43.8	43.8	—	7.0	7.6	6.1	6.3	—
Metal doors, sash, and trim	3442	41.7	42.0	42.2	42.2	—	4.1	4.2	4.3	4.2	—
Fabricated plate work (boiler shops)	3443	43.3	44.2	42.2	43.1	—	5.3	5.7	5.1	5.4	—
Sheet metal work	3444	41.7	42.0	41.5	41.4	—	4.3	4.3	4.2	4.1	—
Architectural metal work	3446	42.5	42.4	41.3	40.6	—	5.2	4.8	4.4	4.0	—
Screw machine products, bolts, etc	345	43.4	44.0	42.8	43.2	—	5.1	5.7	5.1	5.5	—
Screw machine products	3451	41.8	42.3	41.8	42.2	—	4.3	4.7	4.4	4.7	—
Bolts, nuts, rivets, and washers	3452	45.3	45.9	43.9	44.4	—	6.0	6.8	5.8	6.4	—
Metal forgings and stampings	346	43.9	44.4	42.9	43.0	—	5.6	5.9	5.4	5.5	—
Iron and steel forgings	3462	44.3	44.0	42.0	42.9	—	5.8	6.0	4.9	5.2	—
Automotive stampings	3465	44.7	45.6	43.6	43.6	—	6.3	6.8	5.9	6.1	—
Metal stampings, nec	3469	41.9	42.2	42.1	42.1	—	4.3	4.4	4.6	4.7	—
Metal services, nec	347	41.6	42.2	42.0	42.2	—	5.0	5.0	4.9	5.1	—
Plating and polishing	3471	41.4	42.0	41.6	41.8	—	5.0	5.0	4.8	5.0	—
Metal coating and allied services	3479	42.0	42.5	42.7	42.9	—	4.9	5.0	5.2	5.2	—
Ordinance and accessories, nec	348	40.5	41.8	43.0	42.4	—	3.6	3.9	4.2	3.9	—
Ammunition, except for small arms, nec	3483	41.9	43.5	44.1	43.6	—	3.4	3.4	2.8	2.8	—
Misc. fabricated metal products	349	42.0	42.8	41.7	42.3	—	3.9	4.6	4.3	4.5	—
Valves and pipe fittings, nec	3494	41.8	42.5	41.1	41.7	—	4.1	4.6	3.5	4.0	—
Misc. fabricated wire products	3496	40.4	41.4	41.0	42.0	—	3.7	4.6	4.1	4.3	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Stone, clay, and glass products	32	\$13.65	\$13.70	\$14.02	\$14.09	\$14.07	\$597.87	\$600.06	\$616.88	\$621.37	\$606.42
Flat glass	321	18.05	17.72	18.40	18.59	—	768.93	770.82	800.40	782.64	—
Glass and glassware, pressed or blown	322	15.55	15.71	15.73	15.75	—	667.10	672.39	666.95	666.23	—
Glass containers	3221	16.40	16.56	17.02	16.89	—	731.44	738.58	740.37	729.65	—
Pressed and blown glass, nec	3229	14.99	15.14	14.97	15.08	—	628.08	631.34	625.75	630.34	—
Products of purchased glass	323	12.14	12.47	12.39	12.61	—	529.30	542.45	529.05	551.06	—
Cement, hydraulic	324	19.19	18.88	19.30	19.64	—	861.63	834.50	843.41	875.94	—
Structural clay products	325	12.03	12.13	12.32	12.37	—	506.46	517.95	514.98	517.07	—
Pottery and related products	326	11.84	11.92	11.93	11.97	—	494.91	508.98	497.48	502.74	—
Concrete, gypsum, and plaster products	327	13.26	13.22	13.84	13.84	—	598.03	592.26	633.87	631.10	—
Concrete block and brick	3271	12.50	12.48	13.24	13.30	—	596.25	597.79	627.58	627.76	—
Concrete products, nec	3272	11.86	11.95	12.25	12.17	—	536.07	535.36	545.13	541.57	—
Ready-mixed concrete	3273	14.12	13.99	14.86	14.86	—	622.69	611.36	688.02	679.10	—
Misc. nonmetallic mineral products	329	13.83	13.89	14.18	14.29	—	594.69	612.55	613.99	630.19	—
Abrasive products	3291	12.64	12.87	13.38	13.47	—	529.62	550.84	580.69	591.33	—
Asbestos products	3292	14.95	14.99	14.76	14.71	—	729.56	792.97	686.34	675.19	—
Primary metal industries	33	15.35	15.36	16.02	16.14	16.22	678.47	685.06	709.69	721.46	736.39
Blast furnaces and basic steel products	331	18.32	18.18	18.96	19.18	19.23	800.58	794.47	851.30	870.77	890.35
Blast furnaces and steel mills	3312	20.00	19.81	20.75	20.97	—	882.00	861.74	939.98	960.43	—
Steel pipe and tubes	3317	13.86	14.06	14.09	14.31	—	605.68	643.95	631.23	651.11	—
Iron and steel foundries	332	13.84	14.04	14.97	15.09	—	622.80	641.63	664.67	679.05	—
Gray and ductile iron foundries	3321	14.36	14.53	15.64	15.88	—	657.69	682.91	716.31	741.60	—
Malleable iron foundries	3322	14.13	14.34	14.79	14.56	—	657.05	630.96	621.18	639.18	—
Steel foundries, nec	3325	13.58	13.76	14.00	13.96	—	596.16	602.69	590.80	580.74	—
Primary nonferrous metals	333	17.38	17.21	17.97	17.82	—	752.55	755.52	788.88	798.34	—
Primary aluminum	3334	17.44	17.18	18.04	17.79	—	767.36	762.79	797.37	796.99	—
Nonferrous rolling and drawing	335	14.43	14.45	14.65	14.71	—	639.25	644.47	647.53	657.54	—
Copper rolling and drawing	3351	15.43	15.45	15.99	16.26	—	686.64	692.16	681.17	704.06	—
Aluminum sheet, plate, and foil	3353	17.07	16.61	17.06	17.26	—	722.06	725.86	721.64	747.36	—
Nonferrous wire drawing and insulating	3357	14.01	14.15	14.34	14.23	—	627.65	638.17	633.83	637.50	—
Nonferrous foundries (castings)	336	12.39	12.55	12.97	12.99	—	551.36	567.26	561.60	565.07	—
Aluminum foundries	3365	11.97	12.11	12.41	12.60	—	538.65	546.16	541.08	553.14	—
Fabricated metal products	34	13.21	13.34	13.50	13.57	13.70	565.39	578.96	572.40	579.44	594.58
Metal cans and shipping containers	341	16.74	16.87	16.54	16.67	—	736.56	742.28	745.95	755.15	—
Metal cans	3411	17.82	17.96	17.44	17.58	—	785.86	788.44	790.03	799.89	—
Cutlery, handtools, and hardware	342	12.37	12.44	12.36	12.40	—	530.67	542.38	521.59	531.96	—
Hand and edge tools, and blades and handsaws	3423,5	12.48	12.49	12.82	12.91	—	550.37	553.31	556.39	562.88	—
Hardware, nec	3429	12.42	12.52	12.11	12.13	—	525.37	547.12	503.78	516.74	—
Plumbing and heating, except electric	343	11.89	12.06	12.25	12.27	—	514.84	525.82	539.00	537.43	—
Plumbing fixture fittings and trim	3432	11.54	11.73	12.02	12.01	—	477.76	498.53	506.04	499.62	—
Heating equipment, except electric	3433	12.33	12.31	12.76	12.66	—	536.36	526.87	552.51	549.44	—
Fabricated structural metal products	344	12.67	12.79	13.06	13.09	—	543.54	556.37	552.44	555.02	—
Fabricated structural metal	3441	12.99	13.06	13.49	13.54	—	580.65	605.98	590.86	593.05	—
Metal doors, sash, and trim	3442	10.72	10.88	10.89	10.94	—	447.02	456.96	459.56	461.67	—
Fabricated plate work (boiler shops)	3443	14.07	14.11	14.40	14.38	—	609.23	623.66	607.68	619.78	—
Sheet metal work	3444	12.84	12.97	13.50	13.50	—	535.43	544.74	560.25	558.90	—
Architectural metal work	3446	12.11	12.35	12.83	13.02	—	514.68	523.64	529.88	528.61	—
Screw machine products, bolts, etc	345	13.48	13.61	14.00	14.02	—	585.03	598.84	599.20	605.66	—
Screw machine products	3451	12.70	12.89	13.27	13.24	—	530.86	545.25	554.69	558.73	—
Bolts, nuts, rivets, and washers	3452	14.30	14.38	14.77	14.86	—	647.79	660.04	648.40	659.78	—
Metal forgings and stampings	346	15.40	15.54	15.60	15.77	—	676.06	689.98	669.24	678.11	—
Iron and steel forgings	3462	14.75	14.95	15.21	15.19	—	653.43	657.80	638.82	651.65	—
Automotive stampings	3465	17.65	17.68	17.34	17.63	—	788.96	806.21	756.02	768.67	—
Metal stampings, nec	3469	12.70	12.93	13.38	13.48	—	532.13	545.65	563.30	567.51	—
Metal services, nec	347	11.23	11.36	11.66	11.77	—	467.17	479.39	489.72	496.69	—
Plating and polishing	3471	11.14	11.29	11.59	11.70	—	461.20	474.18	482.14	489.06	—
Metal coating and allied services	3479	11.37	11.48	11.76	11.87	—	477.54	487.90	502.15	509.22	—
Ordnance and accessories, nec	348	15.55	15.57	15.23	15.43	—	629.78	650.83	654.89	654.23	—
Ammunition, except for small arms, nec	3483	16.69	16.62	16.19	16.46	—	699.31	722.97	713.98	717.66	—
Misc. fabricated metal products	349	12.68	12.84	13.05	13.10	—	532.56	549.55	544.19	554.13	—
Valves and pipe fittings, nec	3494	12.93	13.29	13.36	13.36	—	540.47	564.83	549.10	557.11	—
Misc. fabricated wire products	3496	11.31	11.37	11.53	11.49	—	456.92	470.72	472.73	482.58	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Industrial machinery and equipment	35	42.7	43.2	42.3	42.6	43.4	4.9	5.3	4.8	5.1	—
Engines and turbines	351	44.7	45.6	45.8	45.3	—	6.9	7.0	7.2	7.5	—
Turbines and turbine generator sets	3511	44.6	44.8	45.8	47.7	—	5.7	6.0	7.1	8.8	—
Internal combustion engines, nec	3519	44.7	45.9	45.8	44.6	—	7.3	7.4	7.2	7.2	—
Farm and garden machinery	352	40.9	40.9	40.9	42.2	—	2.8	3.2	3.0	3.4	—
Farm machinery and equipment	3523	41.5	41.1	41.2	42.7	—	2.8	2.9	3.5	3.9	—
Construction and related machinery	353	43.2	44.0	42.8	43.2	—	5.2	5.6	4.7	5.0	—
Construction machinery	3531	42.8	42.9	43.2	43.0	—	4.4	4.6	4.7	4.6	—
Mining machinery	3532	41.1	41.6	39.5	40.6	—	3.6	3.6	3.0	3.5	—
Oil and gas field machinery	3533	45.1	46.3	45.2	46.2	—	7.1	7.9	7.1	8.3	—
Conveyors and conveying equipment	3535	42.8	43.9	42.4	43.3	—	5.5	6.1	4.2	5.1	—
Industrial trucks and tractors	3537	41.2	43.0	40.9	42.4	—	4.3	4.8	3.3	3.6	—
Metalworking machinery	354	43.5	44.3	42.4	42.9	—	5.7	6.1	5.5	5.7	—
Machine tools, metal cutting types	3541	42.7	44.0	41.8	42.2	—	5.0	5.6	4.4	4.8	—
Machine tools, metal forming types	3542	44.1	44.9	44.5	44.7	—	5.9	6.5	5.7	6.0	—
Special dies, tools, jigs, and fixtures	3544	44.1	44.9	43.1	43.6	—	6.5	7.0	6.0	6.2	—
Machine tool accessories	3545	42.4	43.6	40.7	41.1	—	4.1	4.4	4.3	4.6	—
Power driven handtools	3546	43.4	42.5	41.9	42.7	—	4.7	4.4	4.6	4.3	—
Special industry machinery	355	42.1	42.9	42.2	42.5	—	4.5	5.0	4.8	5.0	—
Textile machinery	3552	40.1	41.1	41.1	41.9	—	3.6	4.3	3.8	3.6	—
Printing trades machinery	3555	42.6	42.6	40.5	41.3	—	5.0	4.8	4.0	4.6	—
Food products machinery	3556	42.8	43.4	41.8	42.1	—	5.0	5.7	4.2	4.3	—
General industrial machinery	356	42.0	43.0	42.4	42.5	—	4.3	4.9	4.6	4.8	—
Pumps and pumping equipment	3561	41.6	41.8	40.9	41.6	—	4.3	4.7	3.8	4.6	—
Ball and roller bearings	3562	42.0	43.2	44.2	43.8	—	4.9	5.3	6.6	6.6	—
Air and gas compressors	3563	43.3	43.2	42.7	43.1	—	4.8	5.1	4.8	5.0	—
Blowers and fans	3564	43.1	43.9	42.0	42.1	—	3.7	4.7	3.5	3.6	—
Speed changers, drives, and gears	3566	41.3	43.2	41.6	42.1	—	4.5	5.6	4.3	4.6	—
Power transmission equipment, nec	3568	41.3	42.4	41.6	41.1	—	3.4	4.3	4.7	4.6	—
Computer and office equipment	357	42.4	41.7	40.9	40.5	—	4.5	4.9	3.7	4.0	—
Electronic computers	3571	42.1	40.7	40.2	39.4	—	4.9	5.5	3.0	3.3	—
Computer terminals, calculators, and office machines, nec	3575,8,9	43.0	43.2	41.9	41.8	—	4.9	4.5	6.2	6.9	—
Refrigeration and service machinery	358	42.4	42.6	40.8	42.3	—	4.2	4.7	4.4	4.7	—
Refrigeration and heating equipment	3585	42.6	42.6	40.7	42.5	—	4.4	5.0	4.8	5.2	—
Misc. industrial and commercial machinery	359	42.6	43.3	42.9	43.0	—	5.0	5.4	5.2	5.3	—
Carburetors, pistons, rings, valves	3592	41.1	42.1	41.2	42.1	—	5.1	6.1	5.4	6.1	—
Scales, balances, and industrial machinery, nec ..	3596,9	42.7	43.3	43.0	42.9	—	5.1	5.4	5.3	5.3	—
Electronic and other electrical equipment	36	42.1	42.3	41.8	42.2	42.6	4.2	4.3	4.1	4.2	—
Electric distribution equipment	361	41.2	42.3	43.2	43.2	—	4.1	4.6	5.2	5.3	—
Transformers, except electronic	3612	42.3	43.9	43.3	43.3	—	3.8	4.1	5.1	5.0	—
Switchgear and switchboard apparatus	3613	40.2	41.0	43.0	43.1	—	4.2	5.1	5.3	5.6	—
Electrical industrial apparatus	362	42.0	43.0	41.7	42.6	—	3.5	3.8	3.8	4.3	—
Motors and generators	3621	42.0	43.6	42.4	43.6	—	3.4	3.9	4.0	4.4	—
Relays and industrial controls	3625	41.7	42.1	40.6	41.3	—	3.6	3.6	3.3	4.0	—
Household appliances	363	40.8	41.2	40.9	41.6	—	2.4	2.6	2.5	1.9	—
Household refrigerators and freezers	3632	42.8	42.4	38.2	40.3	—	2.6	2.4	0.9	1.1	—
Household laundry equipment	3633	39.9	41.4	40.6	40.0	—	2.3	3.7	3.3	1.4	—
Electric housewares and fans	3634	40.6	40.6	41.0	41.9	—	1.9	1.4	2.9	2.7	—
Electric lighting and wiring equipment	364	42.1	42.5	42.3	42.2	—	4.6	4.7	4.6	4.8	—
Electric lamps	3641	41.3	41.3	42.1	43.6	—	4.6	4.5	4.0	5.5	—
Current-carrying wiring devices	3643	41.3	41.3	42.3	41.8	—	4.4	4.6	5.2	5.0	—
Noncurrent-carrying wiring devices	3644	43.1	43.3	42.5	42.2	—	4.3	4.8	4.8	4.1	—
Residential lighting fixtures	3645	40.1	41.2	40.3	40.4	—	3.3	3.5	3.8	3.7	—
Household audio and video equipment	365	42.2	40.3	41.2	41.1	—	5.9	4.3	5.5	5.6	—
Household audio and video equipment	3651	40.5	40.4	41.0	40.7	—	4.0	3.1	4.2	4.3	—
Communications equipment	366	43.0	43.4	41.5	41.6	—	3.6	3.9	3.4	3.3	—
Telephone and telegraph apparatus	3661	45.1	45.2	42.7	42.8	—	4.1	4.4	4.1	3.8	—
Electronic components and accessories	367	42.4	42.2	41.6	42.2	—	4.4	4.5	4.1	4.4	—
Electron tubes	3671	42.9	42.1	42.9	43.7	—	3.0	3.2	3.3	3.9	—
Semiconductors and related devices	3674	43.4	43.1	42.6	42.6	—	5.1	5.1	5.0	4.8	—
Electronic components, nec	3679	42.3	42.5	40.8	41.3	—	4.0	4.1	3.5	4.0	—
Misc. electrical equipment and supplies	369	42.3	42.3	42.5	42.8	—	5.0	5.0	4.6	4.5	—
Storage batteries	3691	44.4	43.9	43.7	43.6	—	5.3	5.3	6.1	5.7	—
Engine electrical equipment	3694	42.2	42.9	43.0	43.3	—	5.6	5.8	4.9	4.8	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Industrial machinery and equipment	35	\$14.64	\$14.73	\$15.18	\$15.20	\$15.39	\$625.13	\$636.34	\$642.11	\$647.52	\$667.93
Engines and turbines	351	17.68	17.98	18.14	18.11	—	790.30	819.89	830.81	820.38	—
Turbines and turbine generator sets	3511	19.87	19.99	21.71	22.19	—	886.20	895.55	994.32	1,058.46	—
Internal combustion engines, nec	3519	16.96	17.35	17.11	16.87	—	758.11	796.37	783.64	752.40	—
Farm and garden machinery	352	13.77	13.49	14.31	14.32	—	563.19	551.74	585.28	604.30	—
Farm machinery and equipment	3523	14.56	14.38	15.07	15.22	—	604.24	591.02	620.88	649.89	—
Construction and related machinery	353	13.84	14.01	14.26	14.32	—	597.89	616.44	610.33	618.62	—
Construction machinery	3531	13.96	14.03	14.37	14.44	—	597.49	601.89	620.78	620.92	—
Mining machinery	3532	14.69	14.75	14.67	14.93	—	603.76	613.60	579.47	606.16	—
Oil and gas field machinery	3533	13.82	14.44	14.77	14.81	—	623.28	668.57	667.60	684.22	—
Conveyors and conveying equipment	3535	14.31	14.39	14.44	14.66	—	612.47	631.72	612.26	634.78	—
Industrial trucks and tractors	3537	13.02	13.00	13.17	13.03	—	536.42	559.00	538.65	552.47	—
Metalworking machinery	354	15.53	15.66	16.08	16.04	—	675.56	693.74	681.79	688.12	—
Machine tools, metal cutting types	3541	15.10	15.25	15.91	16.00	—	644.77	671.00	665.04	675.20	—
Machine tools, metal forming types	3542	16.18	16.27	16.44	16.62	—	713.54	730.52	731.58	742.91	—
Special dies, tools, jigs, and fixtures	3544	16.25	16.42	16.81	16.70	—	716.63	737.26	724.51	728.12	—
Machine tool accessories	3545	13.59	13.59	14.23	14.29	—	576.22	592.52	579.16	587.32	—
Power driven handtools	3546	12.70	12.79	12.79	12.94	—	551.18	543.58	535.90	552.54	—
Special industry machinery	355	15.21	15.31	15.95	15.95	—	640.34	656.80	673.09	677.88	—
Textile machinery	3552	13.29	13.36	13.87	13.91	—	532.93	549.10	570.06	582.83	—
Printing trades machinery	3555	16.34	16.15	16.16	16.46	—	696.08	687.99	654.48	679.80	—
Food products machinery	3556	15.15	15.44	15.33	15.39	—	648.42	670.10	640.79	647.92	—
General industrial machinery	356	14.13	14.24	14.47	14.54	—	593.46	612.32	613.53	617.95	—
Pumps and pumping equipment	3561	15.05	15.28	15.40	15.46	—	626.08	638.70	629.86	643.14	—
Ball and roller bearings	3562	15.03	14.88	15.20	15.29	—	631.26	642.82	671.84	669.70	—
Air and gas compressors	3563	14.88	14.75	14.91	15.19	—	644.30	637.20	636.66	654.69	—
Blowers and fans	3564	11.61	11.93	11.95	11.99	—	500.39	523.73	501.90	504.78	—
Speed changers, drives, and gears	3566	15.09	15.46	16.13	16.36	—	623.22	667.87	671.01	688.76	—
Power transmission equipment, nec	3568	13.63	13.86	14.41	14.36	—	562.92	587.66	599.46	590.20	—
Computer and office equipment	357	16.02	15.89	16.43	16.46	—	679.25	662.61	671.99	666.63	—
Electronic computers	3571	17.81	17.78	18.31	18.14	—	749.80	723.65	736.06	714.72	—
Computer terminals, calculators, and office machines, nec	3575,8,9	14.33	14.09	13.90	14.00	—	616.19	608.69	582.41	585.20	—
Refrigeration and service machinery	358	12.97	13.03	13.68	13.62	—	549.93	555.08	558.14	576.13	—
Refrigeration and heating equipment	3585	13.20	13.24	14.01	13.90	—	562.32	564.02	570.21	590.75	—
Misc. industrial and commercial machinery	359	14.12	14.27	14.74	14.87	—	601.51	617.89	632.35	639.41	—
Carburetors, pistons, rings, valves	3592	14.70	14.86	14.96	15.14	—	604.17	625.61	616.35	637.39	—
Scales, balances, and industrial machinery, nec ..	3596,9	13.98	14.11	14.64	14.79	—	596.95	610.96	629.52	634.49	—
Electronic and other electrical equipment											
Electric distribution equipment	36	13.17	13.26	13.58	13.57	13.68	554.46	560.90	567.64	572.65	582.77
Transformers, except electronic	361	13.24	13.27	12.85	12.98	—	545.49	561.32	555.12	560.74	—
Switchgear and switchboard apparatus	3612	12.06	12.21	11.92	12.04	—	510.14	536.02	516.14	521.33	—
Electrical industrial apparatus	3613	14.28	14.23	13.70	13.84	—	574.06	583.43	589.10	596.50	—
Motors and generators	362	12.64	12.79	12.96	13.02	—	530.88	549.97	540.43	554.65	—
Relays and industrial controls	3621	11.66	11.86	12.00	11.89	—	489.72	517.10	508.80	518.40	—
Household appliances	3625	14.43	14.47	14.56	14.82	—	601.73	609.19	591.14	612.07	—
Household refrigerators and freezers	363	12.60	12.63	13.15	13.18	—	514.08	520.36	537.84	548.29	—
Household laundry equipment	3632	14.11	14.20	15.13	15.63	—	603.91	602.08	577.97	629.89	—
Electric housewares and fans	3633	13.46	13.75	13.39	13.31	—	537.05	569.25	543.63	532.40	—
Electric lighting and wiring equipment	3634	10.99	11.00	11.47	11.01	—	446.19	446.60	470.27	461.32	—
Electric lamps	364	12.58	12.71	13.13	13.30	—	529.62	540.18	555.40	561.26	—
Current-carrying wiring devices	3641	17.23	17.39	17.75	18.04	—	711.60	718.21	747.28	786.54	—
Noncurrent-carrying wiring devices	3643	13.33	13.44	13.57	13.65	—	550.53	555.07	574.01	570.57	—
Residential lighting fixtures	3644	11.95	12.01	12.31	12.42	—	515.05	520.03	523.18	524.12	—
Household audio and video equipment	3645	9.29	9.57	9.81	9.85	—	372.53	394.28	395.34	397.94	—
Household audio and video equipment	365	12.10	12.00	12.97	13.09	—	510.62	483.60	534.36	538.00	—
Communications equipment	3651	11.65	11.75	12.34	12.58	—	471.83	474.70	505.94	512.01	—
Telephone and telegraph apparatus	366	14.17	14.22	14.08	13.94	—	609.31	617.15	584.32	579.90	—
Electronic components and accessories	3661	15.05	15.03	14.81	14.49	—	678.76	679.36	632.39	620.17	—
Electron tubes	367	13.40	13.57	13.89	13.82	—	568.16	572.65	577.82	583.20	—
Semiconductors and related devices	3671	14.86	14.81	14.50	14.55	—	637.49	623.50	622.05	635.84	—
Electronic components, nec	3674	17.94	18.26	18.74	18.79	—	778.60	787.01	798.32	800.45	—
Misc. electrical equipment and supplies	3679	10.94	11.13	11.44	11.27	—	462.76	473.03	466.75	465.45	—
Storage batteries	369	13.39	13.30	14.20	14.08	—	566.40	562.59	603.50	602.62	—
Engine electrical equipment	3691	15.33	15.00	15.92	15.73	—	680.65	658.50	695.70	685.83	—
Engine electrical equipment	3694	12.96	12.79	13.94	13.88	—	546.91	548.69	599.42	601.00	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Transportation equipment	37	44.6	45.7	44.1	44.1	44.6	5.9	6.4	6.0	5.8	—
Motor vehicles and equipment	371	45.2	46.8	45.3	45.2	45.9	6.3	6.9	7.0	6.6	—
Motor vehicles and car bodies	3711	44.1	46.9	46.2	45.8	—	5.4	7.3	7.8	7.1	—
Truck and bus bodies	3713	44.0	45.6	43.2	43.2	—	6.1	5.9	4.7	4.5	—
Motor vehicle parts and accessories	3714	46.4	47.4	45.4	45.4	—	7.2	7.2	7.1	6.9	—
Truck trailers	3715	42.0	42.8	43.4	43.5	—	3.7	4.0	4.1	3.8	—
Aircraft and parts	372	44.5	45.0	43.0	43.1	—	6.1	6.2	4.7	4.8	—
Aircraft	3721	44.4	44.3	42.9	42.9	—	5.7	5.5	4.6	4.5	—
Aircraft engines and engine parts	3724	44.6	46.0	44.9	44.9	—	6.5	7.0	5.6	6.1	—
Aircraft parts and equipment, nec	3728	44.7	45.3	42.1	42.4	—	6.3	6.6	4.3	4.5	—
Ship and boat building and repairing	373	42.8	43.2	40.7	41.1	—	5.1	5.3	3.6	3.8	—
Ship building and repairing	3731	44.1	44.2	41.5	42.1	—	6.0	6.3	3.7	4.1	—
Boat building and repairing	3732	41.0	41.8	39.6	40.0	—	3.6	3.9	3.4	3.4	—
Railroad equipment	374	43.5	42.9	42.4	42.0	—	4.5	4.4	4.7	4.5	—
Guided missiles, space vehicles, and parts	376	42.6	42.0	41.0	41.3	—	3.9	3.8	3.3	3.2	—
Guided missiles and space vehicles	3761	42.2	41.7	40.9	40.4	—	3.4	3.6	3.4	2.7	—
Misc. transportation equipment	379	40.9	41.3	40.8	40.4	—	3.3	3.5	3.0	2.6	—
Travel trailers and campers	3792	40.0	39.5	40.1	39.4	—	2.2	2.0	2.5	1.9	—
Instruments and related products											
Search and navigation equipment	381	42.2	42.5	42.0	42.4	—	3.7	3.6	3.2	3.5	—
Measuring and controlling devices	382	41.2	42.1	41.1	41.8	—	3.1	3.6	3.5	3.7	—
Environmental controls	3822	40.9	42.8	42.5	43.3	—	3.9	4.7	5.0	4.9	—
Process control instruments	3823	40.5	41.4	40.0	40.9	—	2.7	3.2	2.8	3.2	—
Instruments to measure electricity	3825	41.1	42.2	41.2	41.2	—	2.2	2.5	3.2	3.1	—
Medical instruments and supplies	384	41.4	41.9	41.5	42.1	—	3.4	3.7	3.6	4.0	—
Surgical and medical instrument	3841	41.0	41.2	41.6	42.1	—	3.3	3.6	3.8	4.1	—
Surgical appliances and supplies	3842	41.5	42.6	40.5	41.4	—	3.9	4.2	3.0	3.3	—
Ophthalmic goods	385	40.9	40.2	40.0	40.2	—	2.4	1.5	1.8	1.7	—
Photographic equipment and supplies	386	42.3	42.2	42.5	42.7	—	4.0	3.7	4.2	4.6	—
Watches, clocks, watchcases, and parts	387	42.8	42.4	38.8	39.6	—	2.2	2.9	2.3	3.3	—
Miscellaneous manufacturing industries											
Jewelry, silverware, and plated ware	391	39.9	39.1	40.3	39.8	—	3.6	3.1	4.2	3.8	—
Jewelry, precious metal	3911	39.0	38.1	39.5	38.9	—	3.3	2.8	4.3	3.5	—
Musical instruments	393	40.6	41.1	39.0	39.9	—	2.7	3.0	2.6	3.3	—
Toys and sporting goods	394	40.1	40.2	40.9	41.1	—	2.6	2.5	3.1	3.2	—
Dolls, games, toys, and children's vehicles	3942,4	40.4	39.3	41.5	42.4	—	3.0	2.5	2.9	3.3	—
Sporting and athletic goods, nec	3949	40.0	40.6	40.6	40.5	—	2.4	2.5	3.2	3.2	—
Pens, pencils, office, and art supplies	395	38.2	39.0	38.8	39.6	—	2.7	2.6	2.0	1.8	—
Costume jewelry and notions	396	39.2	38.7	36.9	37.6	—	3.9	2.1	2.8	3.5	—
Costume jewelry	3961	39.6	38.0	35.0	35.6	—	5.4	1.6	2.6	3.9	—
Miscellaneous manufactures	399	40.4	40.9	40.5	40.2	—	3.4	3.6	3.6	3.2	—
Signs and advertising specialties	3993	40.6	41.4	40.2	40.0	—	4.0	4.3	4.0	3.3	—
Nondurable goods											
Food and kindred products	20	42.4	42.8	42.4	42.4	42.5	5.7	5.6	6.0	5.8	—
Meat products	201	42.6	43.0	42.3	42.5	—	5.7	5.8	5.8	5.8	—
Meat packing plants	2011	45.2	46.4	44.6	44.8	—	7.4	7.7	7.4	7.1	—
Sausages and other prepared meats	2013	42.8	43.9	43.2	43.9	—	6.5	6.9	6.8	7.1	—
Poultry slaughtering and processing	2015	40.9	40.7	40.6	40.6	—	4.5	4.4	4.5	4.5	—
Dairy products	202	42.1	42.5	42.5	43.2	—	5.4	5.4	5.1	5.8	—
Cheese, natural and processed	2022	42.5	43.0	43.3	44.0	—	5.2	5.2	5.0	5.7	—
Fluid milk	2026	42.5	42.3	42.5	42.9	—	5.5	5.3	5.1	5.6	—
Preserved fruits and vegetables	203	41.6	42.7	42.1	41.2	—	5.7	5.7	6.5	5.5	—
Canned specialties	2032	43.5	43.2	45.9	45.3	—	7.2	7.0	9.0	6.3	—
Canned fruits and vegetables	2033	40.1	41.7	41.6	40.3	—	4.6	4.2	7.3	5.5	—
Frozen fruits and vegetables	2037	40.8	42.4	41.1	39.1	—	5.5	5.9	5.5	4.8	—
Grain mill products	204	46.6	45.7	45.5	45.3	—	8.4	7.8	8.1	7.6	—
Flour and other grain mill products	2041	48.0	47.1	46.9	46.6	—	8.9	7.4	8.8	8.2	—
Prepared feeds, nec	2048	44.0	42.0	44.0	43.4	—	7.2	6.6	7.2	6.5	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Durable goods—Continued											
Transportation equipment	37	\$17.52	\$17.56	\$18.47	\$18.46	\$18.69	\$781.39	\$802.49	\$814.53	\$814.09	\$833.57
Motor vehicles and equipment	371	17.68	17.73	18.93	18.87	19.16	799.14	829.76	857.53	852.92	879.44
Motor vehicles and car bodies	3711	21.00	21.02	23.05	23.07	—	926.10	985.84	1,064.91	1,056.61	—
Truck and bus bodies	3713	15.60	15.17	15.32	15.33	—	686.40	691.75	661.82	662.26	—
Motor vehicle parts and accessories	3714	16.59	16.62	17.65	17.54	—	769.78	787.79	801.31	796.32	—
Truck trailers	3715	11.42	11.57	11.66	11.69	—	479.64	495.20	506.04	508.52	—
Aircraft and parts	372	19.48	19.56	20.20	20.30	—	866.86	880.20	868.60	874.93	—
Aircraft	3721	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Aircraft engines and engine parts	3724	19.29	19.33	19.89	20.23	—	860.33	889.18	893.06	908.33	—
Aircraft parts and equipment, nec	3728	17.21	17.41	17.94	18.06	—	769.29	788.67	755.27	765.74	—
Ship and boat building and repairing	373	13.63	13.63	13.95	13.98	—	583.36	588.82	567.77	574.58	—
Ship building and repairing	3731	14.87	14.85	15.40	15.44	—	655.77	656.37	639.10	650.02	—
Boat building and repairing	3732	11.62	11.75	12.09	12.07	—	476.42	491.15	478.76	482.80	—
Railroad equipment	374	16.52	16.35	16.79	16.90	—	718.62	701.42	711.90	709.80	—
Guided missiles, space vehicles, and parts	376	20.21	20.13	20.30	20.24	—	860.95	845.46	832.30	835.91	—
Guided missiles and space vehicles	3761	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Misc. transportation equipment	379	12.29	12.16	12.86	12.87	—	502.66	502.21	524.69	519.95	—
Travel trailers and campers	3792	12.47	12.16	13.20	13.25	—	498.80	480.32	529.32	522.05	—
Instruments and related products	38	13.91	14.00	14.36	14.36	14.42	577.27	588.00	594.50	603.12	614.29
Search and navigation equipment	381	17.68	17.94	17.45	17.68	—	746.10	762.45	732.90	749.63	—
Measuring and controlling devices	382	14.19	14.23	14.43	14.42	—	584.63	599.08	593.07	602.76	—
Environmental controls	3822	12.18	12.21	11.90	11.86	—	498.16	522.59	505.75	513.54	—
Process control instruments	3823	14.27	14.29	14.59	14.50	—	577.94	591.61	583.60	593.05	—
Instruments to measure electricity	3825	16.79	16.39	16.97	17.02	—	690.07	691.66	699.16	701.22	—
Medical instruments and supplies	384	12.71	12.83	13.01	12.99	—	526.19	537.58	539.92	546.88	—
Surgical and medical instrument	3841	11.84	12.05	12.50	12.39	—	485.44	496.46	520.00	521.62	—
Surgical appliances and supplies	3842	12.07	12.13	12.21	12.22	—	500.91	516.74	494.51	505.91	—
Ophthalmic goods	385	10.25	10.36	10.90	10.86	—	419.23	416.47	436.00	436.57	—
Photographic equipment and supplies	386	16.57	16.57	18.41	18.36	—	700.91	699.25	782.43	783.97	—
Watches, clocks, watchcases, and parts	387	10.28	10.59	10.80	11.08	—	439.98	449.02	419.04	438.77	—
Miscellaneous manufacturing industries	39	11.03	11.12	11.47	11.46	11.62	441.20	447.02	461.09	460.69	467.12
Jewelry, silverware, and plated ware	391	11.48	11.53	12.24	12.21	—	458.05	450.82	493.27	485.96	—
Jewelry, precious metal	3911	11.43	11.43	12.09	11.98	—	445.77	435.48	477.56	466.02	—
Musical instruments	393	11.38	11.37	12.37	12.26	—	462.03	467.31	482.43	489.17	—
Toys and sporting goods	394	10.58	10.66	11.11	11.04	—	424.26	428.53	454.40	453.74	—
Dolls, games, toys, and children's vehicles	3942.4	10.30	10.39	10.77	10.73	—	416.12	408.33	446.96	454.95	—
Sporting and athletic goods, nec	3949	10.70	10.78	11.26	11.18	—	428.00	437.67	457.16	452.79	—
Pens, pencils, office, and art supplies	395	11.12	11.07	11.48	11.42	—	424.78	431.73	445.42	452.23	—
Costume jewelry and notions	396	9.76	9.82	10.52	10.36	—	382.59	380.03	388.19	389.54	—
Costume jewelry	3961	8.87	8.83	9.51	9.13	—	351.25	335.54	332.85	325.03	—
Miscellaneous manufactures	399	11.26	11.40	11.48	11.55	—	454.90	466.26	464.94	464.31	—
Signs and advertising specialties	3993	12.24	12.24	12.87	12.84	—	496.94	506.74	517.37	513.60	—
Nondurable goods		12.90	12.99	13.27	13.34	13.45	532.77	540.38	548.05	552.28	562.21
Food and kindred products	20	11.95	12.02	12.10	12.23	12.32	506.68	514.46	513.04	518.55	523.60
Meat products	201	9.81	9.89	10.03	10.14	—	417.91	425.27	424.27	430.95	—
Meat packing plants	2011	10.66	10.67	10.97	10.97	—	481.83	495.09	489.26	491.46	—
Sausages and other prepared meats	2013	11.07	11.17	11.11	11.28	—	473.80	490.36	479.95	495.19	—
Poultry slaughtering and processing	2015	8.82	8.90	9.02	9.15	—	360.74	362.23	366.21	371.49	—
Dairy products	202	13.84	13.80	14.06	14.24	—	582.66	586.50	597.55	615.17	—
Cheese, natural and processed	2022	12.60	12.58	12.78	12.86	—	535.50	540.94	553.37	565.84	—
Fluid milk	2026	14.51	14.45	14.83	15.10	—	616.68	611.24	630.28	647.79	—
Preserved fruits and vegetables	203	11.46	11.70	11.64	11.78	—	476.74	499.59	490.04	485.34	—
Canned specialties	2032	15.18	15.61	15.53	16.08	—	660.33	674.35	712.83	728.42	—
Canned fruits and vegetables	2033	12.46	12.97	12.24	12.41	—	499.65	540.85	509.18	500.12	—
Frozen fruits and vegetables	2037	10.51	10.72	10.89	11.08	—	428.81	454.53	447.58	433.23	—
Grain mill products	204	15.07	15.14	14.96	15.13	—	702.26	691.90	680.68	685.39	—
Flour and other grain mill products	2041	13.40	13.17	13.78	13.66	—	643.20	620.31	646.28	636.56	—
Prepared feeds, nec	2048	11.85	12.28	12.47	12.48	—	521.40	515.76	548.68	541.63	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods—Continued											
Food and kindred products—Continued											
Bakery products	205	41.1	41.4	42.3	41.9	—	5.1	4.7	5.7	5.8	—
Bread, cake, and related products	2051	41.5	41.2	41.9	42.0	—	5.3	4.8	5.9	6.4	—
Cookies, crackers, and frozen bakery products, except bread	2052,3	40.5	41.7	43.0	41.7	—	4.6	4.4	5.4	4.8	—
Sugar and confectionery products	206	42.0	43.0	40.9	41.7	—	5.4	5.4	5.6	5.5	—
Raw cane sugar	2061	50.4	60.2	43.4	51.8	—	11.5	16.9	9.0	14.5	—
Cane sugar refining	2062	54.3	52.1	54.2	53.7	—	13.2	9.2	16.8	17.5	—
Beet sugar	2063	39.7	40.1	40.0	40.5	—	4.6	4.1	5.3	4.5	—
Candy and other confectionery products	2064	41.1	41.9	39.2	39.7	—	4.6	4.6	4.5	4.1	—
Fats and oils	207	44.7	43.6	44.0	44.0	—	7.2	6.4	7.5	7.2	—
Beverages	208	44.5	44.9	43.7	44.5	—	5.8	5.1	6.4	6.2	—
Malt beverages	2082	49.7	49.6	44.7	50.2	—	9.9	7.0	7.4	10.0	—
Bottled and canned soft drinks	2086	43.1	44.2	43.7	44.4	—	4.7	5.4	5.7	5.6	—
Misc. food and kindred products	209	39.7	40.2	40.6	40.7	—	4.3	4.7	5.5	5.0	—
Tobacco products	21	38.9	37.5	42.4	42.7	44.2	2.8	3.5	2.8	2.9	—
Cigarettes	211	37.8	35.6	39.5	39.4	—	3.3	4.3	1.7	1.5	—
Textile mill products	22	41.1	41.4	41.5	41.6	42.0	4.5	4.7	4.4	4.5	—
Broadwoven fabric mills, cotton	221	40.9	42.0	42.9	42.9	—	5.6	5.6	5.7	5.5	—
Broadwoven fabric mills, synthetics	222	41.9	41.7	43.2	42.8	—	4.9	4.8	5.2	5.0	—
Broadwoven fabric mills, wool	223	37.7	36.9	38.0	38.9	—	3.0	2.6	2.3	2.8	—
Narrow fabric mills	224	40.6	39.1	41.1	40.5	—	3.1	3.3	3.3	2.8	—
Knitting mills	225	40.1	39.7	39.3	40.0	—	3.6	3.7	3.5	3.8	—
Women's hosiery, except socks	2251	40.9	41.3	40.5	40.1	—	3.9	4.1	3.2	3.7	—
Hosiery, nec	2252	39.4	38.8	37.4	38.5	—	3.3	3.1	2.8	3.2	—
Knit outerwear mills	2253	40.2	39.4	38.8	39.9	—	3.3	3.2	2.9	3.7	—
Knit underwear mills	2254	40.0	36.2	38.0	38.4	—	2.4	1.9	2.3	1.3	—
Weft knit fabric mills	2257	38.5	39.4	40.6	41.0	—	3.9	4.2	4.8	4.8	—
Textile finishing, except wool	226	41.7	42.7	41.4	41.8	—	5.0	5.4	4.7	5.3	—
Finishing plants, cotton	2261	43.3	44.1	41.2	42.0	—	6.1	6.3	4.3	5.3	—
Finishing plants, synthetics	2262	41.3	42.5	42.9	43.4	—	4.2	4.9	5.0	5.3	—
Carpets and rugs	227	43.3	44.6	42.3	42.5	—	5.8	6.7	4.2	4.3	—
Yarn and thread mills	228	40.9	40.8	42.0	42.3	—	4.2	4.1	4.6	4.6	—
Yarn spinning mills	2281	41.7	41.8	42.6	42.5	—	4.6	4.5	5.0	5.0	—
Throwing and winding mills	2282	37.7	37.4	40.5	41.8	—	2.9	2.8	3.4	3.7	—
Miscellaneous textile goods	229	41.6	42.6	42.2	41.5	—	4.5	4.9	4.8	4.2	—
Apparel and other textile products	23	37.7	37.9	37.7	37.6	38.1	2.2	2.4	2.5	2.5	—
Men's and boys' suits and coats	231	37.1	37.7	36.9	37.3	—	0.9	0.9	1.2	1.3	—
Men's and boys' furnishings	232	36.5	36.5	36.9	36.8	—	1.4	1.3	1.7	1.7	—
Men's and boys' shirts	2321	35.0	35.1	36.2	36.2	—	0.9	1.1	1.3	1.3	—
Men's and boys' trousers and slacks	2325	35.5	35.4	35.8	35.5	—	1.4	1.0	1.2	1.2	—
Men's and boys' work clothing	2326	38.0	37.6	38.6	38.1	—	1.7	1.8	2.2	2.2	—
Women's and misses' outerwear	233	36.6	36.6	36.4	36.4	—	1.4	1.5	1.9	1.8	—
Women's and misses' blouses and shirts	2331	34.7	35.2	37.0	36.2	—	1.5	2.3	2.0	1.8	—
Women's, juniors', and misses' dresses	2335	36.3	36.0	37.2	37.4	—	1.4	1.7	2.5	1.9	—
Women's and misses' suits and coats	2337	37.2	37.8	35.8	35.5	—	2.0	1.7	2.7	2.7	—
Women's and misses' outerwear, nec	2339	36.9	36.7	36.3	36.3	—	1.4	1.4	1.6	1.7	—
Women's and children's undergarments	234	37.6	37.5	36.6	35.6	—	2.3	2.4	2.2	2.0	—
Women's and children's underwear	2341	37.8	37.7	37.9	36.5	—	2.0	2.3	2.7	2.4	—
Brassieres, girdles, and allied garments	2342	36.9	37.1	33.5	33.1	—	3.2	2.5	1.1	1.1	—
Girls' and children's outerwear	236	37.4	37.2	38.5	38.3	—	3.2	2.8	4.0	3.0	—
Girls' and children's dresses and blouses	2361	38.2	37.9	37.5	37.1	—	4.5	4.4	3.2	2.9	—
Misc. apparel and accessories	238	37.7	37.3	37.5	37.6	—	1.6	1.6	1.7	1.6	—
Misc. fabricated textile products	239	39.8	40.6	39.6	39.6	—	3.8	4.3	4.0	4.2	—
Curtains and draperies	2391	35.8	37.8	36.1	36.3	—	1.9	2.5	1.8	2.4	—
House furnishings, nec	2392	40.9	41.3	40.1	39.3	—	4.6	4.8	4.1	3.8	—
Automotive and apparel trimmings	2396	40.4	42.0	41.8	42.2	—	3.5	4.8	5.8	6.3	—
Paper and allied products	26	43.9	44.3	43.8	43.9	44.3	5.8	5.7	6.1	6.1	—
Paper mills	262	45.0	45.3	45.8	45.8	—	6.8	6.6	7.7	7.5	—
Paperboard mills	263	44.6	46.0	43.6	43.8	—	7.4	7.7	7.6	7.8	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods—Continued											
Food and kindred products—Continued											
Bakery products	205	\$12.83	\$12.85	\$12.88	\$12.81	—	\$527.31	\$531.99	\$544.82	\$536.74	—
Bread, cake, and related products	2051	12.84	12.84	13.14	13.07	—	532.86	529.01	550.57	548.94	—
Cookies, crackers, and frozen bakery products, except bread	2052,3	12.81	12.86	12.47	12.36	—	518.81	536.26	536.21	515.41	—
Sugar and confectionery products	206	13.06	13.15	13.81	13.83	—	548.52	565.45	564.83	576.71	—
Raw cane sugar	2061	10.41	10.68	11.90	12.78	—	524.66	642.94	516.46	662.00	—
Cane sugar refining	2062	18.28	17.87	19.29	19.62	—	992.60	931.03	1,045.52	1,053.59	—
Beet sugar	2063	13.56	13.72	13.74	13.82	—	538.33	550.17	549.60	559.71	—
Candy and other confectionery products	2064	12.47	12.55	13.34	13.28	—	512.52	525.85	522.93	527.22	—
Fats and oils	207	12.98	13.12	13.42	13.37	—	580.21	572.03	590.48	588.28	—
Beverages	208	16.45	16.37	16.12	16.46	—	732.03	735.01	704.44	732.47	—
Malt beverages	2082	24.35	23.77	23.76	24.52	—	1,210.19	1,178.99	1,062.07	1,230.90	—
Bottled and canned soft drinks	2086	13.25	13.39	13.17	13.10	—	571.08	591.84	575.53	581.64	—
Misc. food and kindred products	209	10.89	10.91	10.97	11.09	—	432.33	438.58	445.38	451.36	—
Tobacco products	21	17.31	17.05	17.77	17.76	\$17.70	673.36	639.38	753.45	758.35	\$782.34
Cigarettes	211	24.24	24.04	24.67	24.75	—	916.27	855.82	974.47	975.15	—
Textile mill products	22	10.51	10.56	10.72	10.79	10.86	431.96	437.18	444.88	448.86	456.12
Broadwoven fabric mills, cotton	221	11.13	10.98	11.03	11.11	—	455.22	461.16	473.19	476.62	—
Broadwoven fabric mills, synthetics	222	11.23	11.31	11.54	11.62	—	470.54	471.63	498.53	497.34	—
Broadwoven fabric mills, wool	223	10.93	10.73	11.16	11.21	—	412.06	395.94	424.08	436.07	—
Narrow fabric mills	224	9.55	9.62	9.99	9.92	—	387.73	376.14	410.59	401.76	—
Knitting mills	225	9.55	9.65	9.90	9.97	—	382.96	383.11	389.07	398.80	—
Women's hosiery, except socks	2251	9.02	8.88	9.01	9.12	—	368.92	366.74	364.91	365.71	—
Hosiery, nec	2252	9.44	9.49	9.87	9.94	—	371.94	368.21	369.14	382.69	—
Knit outerwear mills	2253	8.93	9.01	9.48	9.60	—	358.99	354.99	367.82	383.04	—
Knit underwear mills	2254	9.71	9.75	9.73	9.72	—	388.40	352.95	369.74	373.25	—
Weft knit fabric mills	2257	10.32	10.39	10.29	10.25	—	397.32	409.37	417.77	420.25	—
Textile finishing, except wool	226	10.80	10.83	10.77	10.85	—	450.36	462.44	445.88	453.53	—
Finishing plants, cotton	2261	10.65	10.64	10.60	10.73	—	461.15	469.22	436.72	450.66	—
Finishing plants, synthetics	2262	11.26	11.24	11.14	11.20	—	465.04	477.70	477.91	486.08	—
Carpets and rugs	227	10.55	10.61	10.67	10.79	—	456.82	473.21	451.34	458.58	—
Yarn and thread mills	228	10.21	10.27	10.51	10.57	—	417.59	419.02	441.42	447.11	—
Yarn spinning mills	2281	10.27	10.32	10.45	10.52	—	428.26	431.38	445.17	447.10	—
Throwing and winding mills	2282	10.09	10.24	10.69	10.66	—	380.39	382.98	432.95	445.59	—
Miscellaneous textile goods	229	11.95	12.01	12.01	12.08	—	497.12	511.63	506.82	501.32	—
Apparel and other textile products	23	8.64	8.71	8.99	9.04	9.12	325.73	330.11	338.92	339.90	347.47
Men's and boys' suits and coats	231	8.83	8.85	9.09	9.10	—	327.59	333.65	335.42	339.43	—
Men's and boys' furnishings	232	8.02	8.07	8.37	8.36	—	292.73	294.56	308.85	307.65	—
Men's and boys' shirts	2321	7.81	8.05	8.19	8.14	—	273.35	282.56	296.48	294.67	—
Men's and boys' trousers and slacks	2325	8.29	8.24	8.41	8.34	—	294.30	291.70	301.08	296.07	—
Men's and boys' work clothing	2326	7.67	7.70	8.21	8.21	—	291.46	289.52	316.91	312.80	—
Women's and misses' outerwear	233	8.23	8.28	8.45	8.41	—	301.22	303.05	307.58	306.12	—
Women's and misses' blouses and shirts	2331	7.42	7.56	8.11	8.19	—	257.47	266.11	300.07	296.48	—
Women's, juniors', and misses' dresses	2335	9.47	9.57	10.07	9.93	—	343.76	344.52	374.60	371.38	—
Women's and misses' suits and coats	2337	8.14	8.19	8.63	8.67	—	302.81	309.58	308.95	307.79	—
Women's and misses' outerwear, nec	2339	8.08	8.11	8.12	8.08	—	298.15	297.64	294.76	293.30	—
Women's and children's undergarments	234	8.14	8.28	8.35	8.38	—	306.06	310.50	305.61	298.33	—
Women's and children's underwear	2341	8.03	8.15	8.24	8.25	—	303.53	307.26	312.30	301.13	—
Brassieres, girdles, and allied garments	2342	8.45	8.66	8.63	8.75	—	311.81	321.29	289.11	289.63	—
Girls' and children's outerwear	236	8.22	7.99	8.54	8.46	—	307.43	297.23	328.79	324.02	—
Girls' and children's dresses and blouses	2361	8.07	7.92	8.22	8.28	—	308.27	300.17	308.25	307.19	—
Misc. apparel and accessories	238	8.25	8.25	8.45	8.49	—	311.03	307.73	316.88	319.22	—
Misc. fabricated textile products	239	9.59	9.70	10.02	10.21	—	381.68	393.82	396.79	404.32	—
Curtains and draperies	2391	8.43	8.42	8.46	8.46	—	301.79	318.28	305.41	307.10	—
House furnishings, nec	2392	9.29	9.32	9.68	9.72	—	379.96	384.92	388.17	382.00	—
Automotive and apparel trimmings	2396	11.07	11.44	11.63	12.27	—	447.23	480.48	486.13	517.79	—
Paper and allied products	26	15.64	15.78	16.12	16.14	16.25	686.60	699.05	706.06	708.55	719.88
Paper mills	262	20.04	20.09	20.83	20.94	—	901.80	910.08	954.01	959.05	—
Paperboard mills	263	20.03	20.12	20.97	20.91	—	893.34	925.52	914.29	915.86	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods—Continued											
Paper and allied products—Continued											
Paperboard containers and boxes	265	44.3	44.4	44.3	44.0	-	6.1	6.0	6.1	5.9	-
Corrugated and solid fiber boxes	2653	44.9	45.1	44.9	44.5	-	6.6	6.6	6.7	6.4	-
Sanitary food containers	2656	43.0	44.2	43.5	43.8	-	4.3	4.7	5.2	5.0	-
Folding paperboard boxes	2657	43.6	43.4	43.5	43.3	-	5.8	5.4	5.3	5.2	-
Misc. converted paper products	267	42.7	43.0	42.0	42.5	-	4.6	4.6	4.9	5.1	-
Paper, coated and laminated, nec	2672	41.3	42.0	42.5	43.4	-	3.4	3.3	4.2	4.5	-
Bags: plastics, laminated, and coated	2673	43.0	43.3	40.9	40.4	-	5.3	5.3	5.0	5.1	-
Envelopes	2677	42.0	42.3	41.8	42.3	-	4.0	4.5	4.5	4.4	-
Printing and publishing	27	38.7	38.8	38.6	38.8	39.0	3.4	3.4	3.3	3.4	-
Newspapers	271	33.8	33.8	33.1	33.6	-	1.9	1.9	1.6	1.9	-
Periodicals	272	36.7	36.7	37.3	36.7	-	2.6	2.9	2.5	2.5	-
Books	273	39.5	40.3	41.6	41.8	-	4.1	4.2	4.5	4.7	-
Book publishing	2731	38.2	38.2	37.8	39.0	-	2.4	2.4	2.2	2.8	-
Book printing	2732	40.6	42.2	45.1	44.4	-	5.6	5.9	6.6	6.4	-
Miscellaneous publishing	274	36.5	36.2	36.0	36.5	-	3.3	2.8	2.8	3.1	-
Commercial printing	275	40.4	40.2	40.1	40.3	-	4.0	3.9	4.0	3.9	-
Commercial printing, lithographic	2752	40.3	40.0	40.0	40.2	-	3.9	3.7	4.0	3.9	-
Commercial printing, nec	2759	40.7	40.7	40.1	40.5	-	4.1	4.0	4.1	4.0	-
Manifold business forms	276	42.7	44.8	41.6	42.1	-	4.8	5.9	4.6	4.7	-
Blankbooks and bookbinding	278	38.9	40.1	39.4	38.9	-	2.9	3.4	2.9	2.8	-
Printing trade services	279	39.8	39.7	39.6	40.5	-	3.8	3.4	3.4	4.4	-
Chemicals and allied products	28	43.2	43.5	43.1	43.5	43.8	5.2	5.2	5.4	5.4	-
Industrial inorganic chemicals	281	43.4	43.2	42.9	43.9	-	5.6	5.5	5.7	5.8	-
Industrial inorganic chemicals, nec	2819	44.0	44.0	43.2	44.6	-	5.9	5.7	5.7	6.1	-
Plastics materials and synthetics	282	42.8	43.6	44.3	44.0	-	5.1	5.0	5.2	5.5	-
Plastics materials and resins	2821	44.3	45.5	44.7	44.7	-	5.3	5.4	5.5	5.5	-
Organic fibers, noncellulosic	2824	40.9	41.3	45.0	44.3	-	4.3	4.2	5.4	6.1	-
Drugs	283	43.1	43.4	41.8	41.7	-	5.1	5.1	5.4	5.1	-
Pharmaceutical preparations	2834	43.7	43.9	42.3	42.1	-	4.9	4.9	5.3	5.0	-
Soap, cleaners, and toilet goods	284	41.5	41.8	41.7	42.9	-	3.9	4.2	4.6	4.8	-
Soap and other detergents	2841	45.2	44.8	45.1	46.9	-	5.8	6.0	6.3	7.7	-
Polishing, sanitation, and finishing preparations ..	2842,3	41.1	42.8	41.7	41.4	-	3.6	3.8	4.4	4.0	-
Toilet preparations	2844	40.1	40.0	39.9	41.3	-	3.2	3.6	3.7	3.5	-
Paints and allied products	285	42.3	43.3	42.1	42.3	-	4.1	4.4	4.6	4.2	-
Industrial organic chemicals	286	45.1	45.3	45.7	46.6	-	6.6	6.4	6.6	6.9	-
Cyclic crudes and intermediates	2865	45.2	47.4	46.6	45.3	-	5.9	5.9	7.2	6.0	-
Industrial organic chemicals, nec	2869	45.1	44.9	45.6	46.9	-	6.8	6.5	6.5	7.1	-
Agricultural chemicals	287	45.4	44.9	44.9	44.7	-	7.0	6.5	6.3	6.2	-
Miscellaneous chemical products	289	43.9	43.8	42.6	42.9	-	4.7	4.8	4.9	5.1	-
Petroleum and coal products	29	43.9	44.7	43.2	43.0	44.0	6.4	6.1	6.9	6.4	-
Petroleum refining	291	43.9	45.4	42.1	42.3	-	5.9	5.7	5.6	5.2	-
Asphalt paving and roofing materials	295	44.0	43.3	45.8	44.6	-	8.1	7.6	10.4	9.5	-
Rubber and misc. plastics products	30	42.1	42.7	41.6	42.0	42.5	4.6	4.7	4.4	4.6	-
Tires and inner tubes	301	42.9	43.7	42.2	42.7	-	5.9	5.9	4.8	5.7	-
Rubber and plastics footwear	302	40.5	40.0	42.5	42.0	-	5.6	4.7	3.3	2.5	-
Hose, belting, gaskets, and packing	305	42.7	43.8	41.6	42.4	-	4.2	5.2	4.1	4.4	-
Rubber and plastics hose and belting	3052	43.8	45.6	41.1	42.5	-	4.7	6.1	3.9	4.4	-
Fabricated rubber products, nec	306	42.7	43.8	42.8	42.8	-	4.5	4.7	4.5	4.7	-
Miscellaneous plastics products, nec	308	41.9	42.4	41.4	41.8	-	4.5	4.6	4.4	4.6	-
Leather and leather products	31	38.0	38.1	37.7	38.2	38.3	2.3	2.2	2.2	2.3	-
Leather tanning and finishing	311	40.3	41.3	41.5	42.2	-	4.2	4.4	4.8	4.9	-
Footwear, except rubber	314	37.2	37.1	36.4	37.1	-	1.6	1.3	1.4	1.3	-
Men's footwear, except athletic	3143	36.7	36.7	36.1	36.3	-	1.3	0.9	1.5	1.3	-
Women's footwear, except athletic	3144	37.4	36.7	37.4	38.1	-	2.2	1.5	0.6	0.7	-
Luggage	316	37.4	36.7	36.7	37.0	-	2.2	2.3	1.6	1.8	-
Handbags and personal leather goods	317	37.6	36.6	38.3	38.3	-	2.2	1.9	1.9	2.2	-
Service-producing		33.0	32.9	32.8	32.7	32.8	-	-	-	-	-
Transportation and public utilities		39.7	39.1	38.4	38.2	38.2	-	-	-	-	-

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Nondurable goods—Continued											
Paper and allied products—Continued											
Paperboard containers and boxes	265	\$13.16	\$13.32	\$13.54	\$13.57	—	\$582.99	\$591.41	\$599.82	\$597.08	—
Corrugated and solid fiber boxes	2653	13.20	13.35	13.52	13.52	—	592.68	602.09	607.05	601.64	—
Sanitary food containers	2656	12.99	13.38	13.59	13.61	—	558.57	591.40	591.17	596.12	—
Folding paperboard boxes	2657	13.90	14.08	14.37	14.41	—	606.04	611.07	625.10	623.95	—
Misc. converted paper products	267	13.70	13.85	14.01	14.04	—	584.99	595.55	588.42	596.70	—
Paper, coated and laminated, nec	2672	15.77	16.02	16.31	16.41	—	651.30	672.84	693.18	712.19	—
Bags: plastics, laminated, and coated	2673	12.27	12.61	12.31	12.41	—	527.61	546.01	503.48	501.36	—
Envelopes	2677	12.56	12.76	13.08	13.24	—	527.52	539.75	546.74	560.05	—
Printing and publishing	27	13.57	13.68	13.97	14.01	\$14.11	525.16	530.78	539.24	543.59	\$550.29
Newspapers	271	13.31	13.42	13.72	13.70	—	449.88	453.60	454.13	460.32	—
Periodicals	272	14.94	15.07	15.37	15.41	—	548.30	553.07	573.30	565.55	—
Books	273	13.11	13.16	13.89	13.96	—	517.85	530.35	577.82	583.53	—
Book publishing	2731	12.12	12.23	13.19	13.33	—	462.98	467.19	498.58	519.87	—
Book printing	2732	13.94	13.91	14.44	14.47	—	565.96	587.00	651.24	642.47	—
Miscellaneous publishing	274	12.98	12.95	13.09	13.20	—	473.77	468.79	471.24	481.80	—
Commercial printing	275	13.79	13.92	14.16	14.18	—	557.12	559.58	567.82	571.45	—
Commercial printing, lithographic	2752	14.00	14.14	14.50	14.50	—	564.20	565.60	580.00	582.90	—
Commercial printing, nec	2759	13.09	13.21	13.30	13.38	—	532.76	537.65	533.33	541.89	—
Manifold business forms	276	14.47	14.71	14.56	14.51	—	617.87	659.01	605.70	610.87	—
Blankbooks and bookbinding	278	10.71	10.77	11.02	11.12	—	416.62	431.88	434.19	432.57	—
Printing trade services	279	16.74	17.05	16.86	17.00	—	666.25	676.89	667.66	688.50	—
Chemicals and allied products	28	17.27	17.31	17.72	17.74	17.87	746.06	752.99	763.73	771.69	782.71
Industrial inorganic chemicals	281	18.89	18.85	19.92	19.73	—	819.83	814.32	854.57	866.15	—
Industrial inorganic chemicals, nec	2819	19.45	19.40	20.52	20.37	—	855.80	853.60	886.46	908.50	—
Plastics materials and synthetics	282	18.07	18.20	18.41	18.42	—	773.40	793.52	815.56	810.48	—
Plastics materials and resins	2821	20.02	20.24	21.15	21.28	—	886.89	920.92	945.41	951.22	—
Organic fibers, noncellulosic	2824	15.36	15.42	15.30	15.10	—	628.22	636.85	688.50	668.93	—
Drugs	283	17.23	17.09	17.61	17.63	—	742.61	741.71	736.10	735.17	—
Pharmaceutical preparations	2834	17.03	16.87	17.52	17.55	—	744.21	740.59	741.10	738.86	—
Soap, cleaners, and toilet goods	284	14.03	14.35	14.98	15.12	—	582.25	599.83	624.67	648.65	—
Soap and other detergents	2841	17.41	17.65	18.31	18.72	—	786.93	790.72	825.78	877.97	—
Polishing, sanitation, and finishing preparations	2842, 3	13.59	13.83	14.24	14.25	—	558.55	591.92	593.81	589.95	—
Toilet preparations	2844	12.62	12.91	13.23	13.12	—	506.06	516.40	527.88	541.86	—
Paints and allied products	285	14.54	14.61	15.11	15.19	—	615.04	632.61	636.13	642.54	—
Industrial organic chemicals	286	20.77	20.70	20.92	20.84	—	936.73	937.71	956.04	971.14	—
Cyclic crudes and intermediates	2865	20.52	20.45	20.91	20.55	—	927.50	969.33	974.41	930.92	—
Industrial organic chemicals, nec	2869	20.95	20.87	21.03	21.00	—	944.85	937.06	958.97	984.90	—
Agricultural chemicals	287	17.55	17.38	17.61	17.70	—	796.77	780.36	790.69	791.19	—
Miscellaneous chemical products	289	15.49	15.59	15.93	16.09	—	680.01	682.84	678.62	690.26	—
Petroleum and coal products	29	20.96	21.22	21.68	21.81	21.87	920.14	948.53	936.58	937.83	962.28
Petroleum refining	291	23.60	23.55	24.74	24.94	—	1,036.04	1,069.17	1,041.55	1,054.96	—
Asphalt paving and roofing materials	295	15.73	16.08	16.95	16.74	—	692.12	696.26	776.31	746.60	—
Rubber and misc. plastics products	30	11.97	12.08	12.37	12.40	12.53	503.94	515.82	514.59	520.80	532.53
Tires and inner tubes	301	18.55	18.53	19.23	19.20	—	795.80	809.76	811.51	819.84	—
Rubber and plastics footwear	302	10.24	10.22	10.36	10.32	—	414.72	408.80	440.30	433.44	—
Hose, belting, gaskets, and packing	305	11.84	12.05	12.66	12.64	—	505.57	527.79	526.66	535.94	—
Rubber and plastics hose and belting	3052	11.70	11.96	12.66	12.56	—	512.46	545.38	520.33	533.80	—
Fabricated rubber products, nec	306	11.73	11.84	12.16	12.22	—	500.87	518.59	520.45	523.02	—
Miscellaneous plastics products, nec	308	11.37	11.47	11.71	11.74	—	476.40	486.33	484.79	490.73	—
Leather and leather products	31	9.44	9.43	9.83	9.82	9.88	358.72	359.28	370.59	375.12	378.40
Leather tanning and finishing	311	12.37	12.25	12.75	12.70	—	498.51	505.93	529.13	535.94	—
Footwear, except rubber	314	9.07	9.05	9.53	9.52	—	337.40	335.76	346.89	353.19	—
Men's footwear, except athletic	3143	9.77	9.75	10.17	10.17	—	358.56	357.83	367.14	369.17	—
Women's footwear, except athletic	3144	7.92	7.94	8.11	8.11	—	296.21	291.40	303.31	308.99	—
Luggage	316	9.09	8.75	9.01	8.95	—	339.97	321.13	330.67	331.15	—
Handbags and personal leather goods	317	8.29	8.15	8.77	8.78	—	313.36	298.29	335.89	336.27	—
Service-producing		12.52	12.50	12.89	12.93	12.98	413.16	411.25	422.79	422.81	425.74
Transportation and public utilities		15.48	15.50	15.76	15.86	15.89	614.56	606.05	605.18	605.85	607.00

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Transportation and public utilities—Continued											
Railroad transportation:											
Class I railroads plus Amtrak ³	4011	46.5	44.4	44.3	44.3	-	-	-	-	-	-
Local and interurban passenger transit	41	34.4	34.3	34.3	33.9	-	-	-	-	-	-
Local and suburban transportation	411	38.9	38.6	38.4	38.2	-	-	-	-	-	-
Intercity and rural bus transportation	413	40.3	39.8	40.0	39.2	-	-	-	-	-	-
Trucking and warehousing	42	40.3	40.4	40.8	40.8	-	-	-	-	-	-
Trucking and courier services, except air	421	40.2	40.3	40.7	40.7	-	-	-	-	-	-
Public warehousing and storage	422	41.7	41.3	40.8	41.3	-	-	-	-	-	-
Water transportation:											
Water transportation services	449	38.3	37.8	35.3	35.9	-	-	-	-	-	-
Pipelines, except natural gas	46	46.0	45.9	42.5	42.2	-	-	-	-	-	-
Transportation services	47	39.5	38.2	38.1	37.7	-	-	-	-	-	-
Passenger transportation arrangement	472	39.6	38.0	37.4	36.8	-	-	-	-	-	-
Travel agencies	4724	40.6	38.9	37.4	36.8	-	-	-	-	-	-
Freight transportation arrangement	473	39.1	37.6	38.6	38.4	-	-	-	-	-	-
Communications	48	40.9	40.6	40.3	40.1	-	-	-	-	-	-
Telephone communications	481	42.4	42.4	41.2	41.0	-	-	-	-	-	-
Telephone communications, except radio	4813	42.9	42.7	42.0	41.5	-	-	-	-	-	-
Radio and television broadcasting	483	35.8	35.3	36.0	35.8	-	-	-	-	-	-
Cable and other pay television services	484	40.5	39.4	41.8	41.2	-	-	-	-	-	-
Electric, gas, and sanitary services	49	43.2	42.1	42.0	41.8	-	-	-	-	-	-
Electric services	491	42.9	40.8	41.3	41.1	-	-	-	-	-	-
Gas production and distribution	492	43.6	42.7	41.8	41.7	-	-	-	-	-	-
Combination utility services	493	43.5	43.3	43.5	43.5	-	-	-	-	-	-
Sanitary services	495	43.9	43.7	42.4	42.1	-	-	-	-	-	-
Wholesale trade		38.7	38.4	38.6	38.4	38.5	-	-	-	-	-
Durable goods	50	39.4	39.0	39.2	39.1	-	-	-	-	-	-
Motor vehicles, parts, and supplies	501	37.7	37.7	37.5	37.2	-	-	-	-	-	-
Furniture and home furnishings	502	37.2	37.4	38.2	38.4	-	-	-	-	-	-
Lumber and other construction materials	503	40.3	40.4	40.8	40.4	-	-	-	-	-	-
Professional and commercial equipment	504	40.7	39.6	39.6	39.4	-	-	-	-	-	-
Medical and hospital equipment	5047	40.1	39.5	40.0	39.5	-	-	-	-	-	-
Metals and minerals, except petroleum	505	41.6	41.4	41.2	41.2	-	-	-	-	-	-
Electrical goods	506	39.9	39.4	39.7	39.6	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	39.2	38.9	39.0	39.3	-	-	-	-	-	-
Machinery, equipment, and supplies	508	39.8	39.3	39.4	39.4	-	-	-	-	-	-
Misc. wholesale trade durable goods	509	37.0	36.9	38.0	37.6	-	-	-	-	-	-
Nondurable goods	51	37.6	37.5	37.8	37.5	-	-	-	-	-	-
Paper and paper products	511	37.8	37.2	36.5	36.7	-	-	-	-	-	-
Drugs, proprietaries, and sundries	512	37.2	36.8	37.3	37.4	-	-	-	-	-	-
Apparel, piece goods, and notions	513	37.2	36.3	36.5	36.4	-	-	-	-	-	-
Groceries and related products	514	38.4	38.8	38.9	38.8	-	-	-	-	-	-
Farm-product raw materials	515	34.9	33.6	37.4	34.0	-	-	-	-	-	-
Chemicals and allied products	516	40.4	40.2	40.6	40.3	-	-	-	-	-	-
Petroleum and petroleum products	517	38.3	38.3	37.6	37.2	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	37.7	37.7	37.6	37.6	-	-	-	-	-	-
Misc. wholesale trade nondurable goods	519	36.2	36.3	36.8	36.4	-	-	-	-	-	-
Retail trade		28.9	29.2	28.8	28.7	29.2	-	-	-	-	-
Building materials and garden supplies	52	35.0	34.8	35.4	35.5	-	-	-	-	-	-
Lumber and other building materials	521	36.8	36.5	37.2	37.5	-	-	-	-	-	-
Paint, glass, and wallpaper stores	523	35.9	34.8	34.7	34.7	-	-	-	-	-	-
Hardware stores	525	30.3	30.7	30.4	30.3	-	-	-	-	-	-
Retail nurseries and garden stores	526	31.2	31.8	33.0	32.2	-	-	-	-	-	-

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Transportation and public utilities—Continued											
Railroad transportation: Class I railroads plus Amtrak ³	4011	\$17.80	\$17.76	\$17.58	\$17.58	—	\$827.70	\$788.54	\$778.79	\$778.79	—
Local and interurban passenger transit	41	11.36	11.36	11.64	11.72	—	390.78	389.65	399.25	397.31	—
Local and suburban transportation	411	11.88	11.90	12.13	12.27	—	462.13	459.34	465.79	468.71	—
Intercity and rural bus transportation	413	13.43	13.11	13.64	13.78	—	541.23	521.78	545.60	540.18	—
Trucking and warehousing	42	13.74	13.78	14.07	14.15	—	553.72	556.71	574.06	577.32	—
Trucking and courier services, except air	421	13.99	14.01	14.29	14.37	—	562.40	564.60	581.60	584.86	—
Public warehousing and storage	422	11.26	11.49	11.84	11.94	—	469.54	474.54	483.07	493.12	—
Water transportation: Water transportation services	449	21.00	20.66	20.12	20.43	—	804.30	780.95	710.24	733.44	—
Pipelines, except natural gas	46	20.99	20.88	22.36	22.51	—	965.54	958.39	950.30	949.92	—
Transportation services	47	14.00	14.34	14.21	14.45	—	553.00	547.79	541.40	544.77	—
Passenger transportation arrangement	472	14.55	15.14	14.20	14.61	—	576.18	575.32	531.08	537.65	—
Travel agencies	4724	14.85	15.59	14.50	15.00	—	602.91	606.45	542.30	552.00	—
Freight transportation arrangement	473	13.81	14.01	14.62	14.69	—	539.97	526.78	564.33	564.10	—
Communications	48	17.53	17.65	17.25	17.41	—	716.98	716.59	695.18	698.14	—
Telephone communications	481	18.04	18.08	17.41	17.56	—	764.90	766.59	717.29	719.96	—
Telephone communications, except radio	4813	18.54	18.71	17.89	18.10	—	795.37	798.92	751.38	751.15	—
Radio and television broadcasting	483	18.13	18.41	18.70	18.87	—	649.05	649.87	673.20	675.55	—
Cable and other pay television services	484	14.20	14.49	14.65	14.74	—	575.10	570.91	612.37	607.29	—
Electric, gas, and sanitary services	49	20.47	20.23	20.73	20.79	—	884.30	851.68	870.66	869.02	—
Electric services	491	21.75	21.38	21.78	22.01	—	933.08	872.30	899.51	904.61	—
Gas production and distribution	492	19.16	18.92	19.02	19.46	—	835.38	807.88	795.04	811.48	—
Combination utility services	493	24.29	23.85	24.62	23.85	—	1,056.62	1,032.70	1,070.97	1,037.47	—
Sanitary services	495	16.05	16.29	17.22	17.31	—	704.60	711.87	730.13	728.75	—
Wholesale trade		14.34	14.32	14.78	14.86	\$14.98	554.96	549.89	570.51	570.62	\$576.73
Durable goods	50	15.02	14.96	15.52	15.59	—	591.79	583.44	608.38	609.57	—
Motor vehicles, parts, and supplies	501	13.23	13.13	13.43	13.47	—	498.77	495.00	503.63	501.08	—
Furniture and home furnishings	502	13.27	13.20	13.27	13.45	—	493.64	493.68	506.91	516.48	—
Lumber and other construction materials	503	13.46	13.41	13.89	13.89	—	542.44	541.76	566.71	561.16	—
Professional and commercial equipment	504	17.70	17.72	18.65	18.74	—	720.39	701.71	738.54	738.36	—
Medical and hospital equipment	5047	17.66	17.53	17.83	17.83	—	708.17	692.44	713.20	704.29	—
Metals and minerals, except petroleum	505	14.08	13.92	14.64	14.61	—	585.73	576.29	603.17	601.93	—
Electrical goods	506	16.08	15.95	16.12	16.21	—	641.59	628.43	639.96	641.92	—
Hardware, plumbing, and heating equipment	507	14.03	13.97	14.40	14.41	—	549.98	543.43	561.60	566.31	—
Machinery, equipment, and supplies	508	15.13	15.09	15.64	15.72	—	602.17	593.04	616.22	619.37	—
Misc. wholesale trade durable goods	509	11.52	11.59	12.01	12.04	—	426.24	427.67	456.38	452.70	—
Nondurable goods	51	13.35	13.41	13.72	13.79	—	501.96	502.88	518.62	517.13	—
Paper and paper products	511	13.81	13.57	13.97	13.86	—	522.02	504.80	509.91	508.66	—
Drugs, proprietaries, and sundries	512	17.67	17.73	19.09	18.99	—	657.32	652.46	712.06	710.23	—
Apparel, piece goods, and notions	513	13.00	13.11	12.99	13.12	—	483.60	475.89	474.14	477.57	—
Groceries and related products	514	13.30	13.39	13.62	13.75	—	510.72	519.53	529.82	533.50	—
Farm-product raw materials	515	10.20	10.22	10.39	10.54	—	355.98	343.39	388.59	358.36	—
Chemicals and allied products	516	15.52	15.48	16.03	16.11	—	627.01	622.30	650.82	649.23	—
Petroleum and petroleum products	517	12.02	12.09	12.62	12.64	—	460.37	463.05	474.51	470.21	—
Beer, wine, and distilled beverages	518	15.57	15.81	15.57	15.54	—	586.99	596.04	585.43	584.30	—
Misc. wholesale trade nondurable goods	519	11.04	11.09	11.32	11.29	—	399.65	402.57	416.58	410.96	—
Retail trade		8.86	8.88	9.20	9.21	9.25	256.05	259.30	264.96	264.33	270.10
Building materials and garden supplies	52	10.63	10.58	11.05	11.14	—	372.05	368.18	391.17	395.47	—
Lumber and other building materials	521	11.12	11.06	11.57	11.66	—	409.22	403.69	430.40	437.25	—
Paint, glass, and wallpaper stores	523	10.87	10.84	10.87	10.98	—	390.23	377.23	377.19	381.01	—
Hardware stores	525	8.68	8.64	9.06	9.06	—	263.00	265.25	275.42	274.52	—
Retail nurseries and garden stores	526	9.61	9.59	10.12	10.14	—	299.83	304.96	333.96	326.51	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999 ^P	Dec. 1999 ^P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999 ^P	Dec. 1999 ^P
Retail trade—Continued											
General merchandise stores	53	29.5	31.0	29.0	28.7	—	—	—	—	—	—
Department stores	531	29.6	31.1	29.0	28.7	—	—	—	—	—	—
Variety stores	533	27.5	29.2	27.6	27.3	—	—	—	—	—	—
Misc. general merchandise stores	539	29.9	31.0	30.0	29.8	—	—	—	—	—	—
Food stores	54	29.7	29.4	29.6	29.6	—	—	—	—	—	—
Grocery stores	541	29.8	29.4	29.7	29.8	—	—	—	—	—	—
Retail bakeries	546	28.8	28.9	28.6	28.2	—	—	—	—	—	—
Automotive dealers and service stations	55	35.5	35.2	35.7	35.5	—	—	—	—	—	—
New and used car dealers	551	37.1	36.8	36.7	36.6	—	—	—	—	—	—
Auto and home supply stores	553	38.2	37.8	38.4	38.3	—	—	—	—	—	—
Gasoline service stations	554	31.9	31.6	32.5	32.3	—	—	—	—	—	—
Automotive dealers, nec	559	36.1	35.3	34.8	35.7	—	—	—	—	—	—
Apparel and accessory stores	56	26.4	27.4	25.8	25.6	—	—	—	—	—	—
Men's and boys' clothing stores	561	28.2	29.4	28.3	28.0	—	—	—	—	—	—
Women's clothing stores	562	23.4	24.3	23.1	22.7	—	—	—	—	—	—
Family clothing stores	565	27.5	28.9	26.3	26.2	—	—	—	—	—	—
Shoe stores	566	26.3	27.4	26.7	26.7	—	—	—	—	—	—
Furniture and home furnishings stores	57	33.0	33.5	32.7	32.5	—	—	—	—	—	—
Furniture and home furnishings stores	571	33.1	33.3	33.0	33.0	—	—	—	—	—	—
Household appliance stores	572	34.2	34.9	33.9	33.3	—	—	—	—	—	—
Radio, television, and computer stores	573	32.7	33.5	32.3	31.8	—	—	—	—	—	—
Radio, television, and electronic stores	5731	32.6	34.8	31.7	31.2	—	—	—	—	—	—
Record and prerecorded tape stores	5735	24.2	25.1	24.9	24.5	—	—	—	—	—	—
Eating and drinking places ⁴	58	25.4	25.4	25.5	25.3	—	—	—	—	—	—
Miscellaneous retail establishments	59	29.4	30.4	29.2	29.2	—	—	—	—	—	—
Drug stores and proprietary stores	591	28.7	29.0	28.8	28.9	—	—	—	—	—	—
Used merchandise stores	593	30.3	30.5	30.6	30.2	—	—	—	—	—	—
Miscellaneous shopping goods stores	594	27.4	28.8	27.3	27.1	—	—	—	—	—	—
Nonstore retailers	596	33.1	35.2	32.2	32.9	—	—	—	—	—	—
Fuel dealers	598	38.5	38.2	37.0	37.3	—	—	—	—	—	—
Retail stores, nec	599	30.5	31.3	30.1	30.1	—	—	—	—	—	—
Optical goods stores	5995	34.0	33.5	33.2	32.4	—	—	—	—	—	—
Miscellaneous retail stores, nec	5999	30.5	31.1	30.1	30.3	—	—	—	—	—	—
Finance, insurance, and real estate⁵		36.9	36.2	36.1	36.0	36.1	—	—	—	—	—
Depository institutions	60	36.4	35.2	35.4	35.2	—	—	—	—	—	—
Commercial banks	602	36.5	35.0	35.4	35.1	—	—	—	—	—	—
State commercial banks	6022	36.1	35.0	35.1	34.8	—	—	—	—	—	—
National and commercial banks, nec	6021,9	36.9	35.0	35.6	35.3	—	—	—	—	—	—
Credit unions	606	35.9	35.6	35.3	35.3	—	—	—	—	—	—
Nondepository institutions	61	39.8	38.3	37.2	37.4	—	—	—	—	—	—
Personal credit institutions	614	40.5	38.7	38.1	38.3	—	—	—	—	—	—
Security and commodity brokers: Security and commodity services	628	39.5	37.6	37.6	37.5	—	—	—	—	—	—
Insurance carriers	63	39.0	39.0	38.7	38.6	—	—	—	—	—	—
Life insurance	631	39.0	38.8	38.5	38.6	—	—	—	—	—	—
Medical service and health insurance	632	38.9	38.5	38.5	38.3	—	—	—	—	—	—
Hospital and medical service plans	6324	39.3	38.9	39.2	39.2	—	—	—	—	—	—
Fire, marine, and casualty insurance	633	39.0	39.6	39.3	38.8	—	—	—	—	—	—
Services		32.8	32.6	32.7	32.7	32.7	—	—	—	—	—
Agricultural services	07	34.6	33.8	35.5	35.0	—	—	—	—	—	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Retail trade—Continued											
General merchandise stores	53	\$8.56	\$8.62	\$9.10	\$9.08	—	\$252.52	\$267.22	\$263.90	\$260.60	—
Department stores	531	8.61	8.67	9.17	9.15	—	254.86	269.64	265.93	262.61	—
Variety stores	533	7.65	7.63	7.81	7.72	—	210.38	222.80	215.56	210.76	—
Misc. general merchandise stores	539	8.40	8.47	8.89	8.93	—	251.16	262.57	266.70	266.11	—
Food stores	54	9.18	9.14	9.34	9.33	—	272.65	268.72	276.46	276.17	—
Grocery stores	541	9.28	9.24	9.42	9.42	—	276.54	271.66	279.77	280.72	—
Retail bakeries	546	8.22	8.31	8.60	8.59	—	236.74	240.16	245.96	242.24	—
Automotive dealers and service stations	55	12.24	12.20	12.65	12.65	—	434.52	429.44	451.61	449.08	—
New and used car dealers	551	15.41	15.31	15.95	15.89	—	571.71	563.41	585.37	581.57	—
Auto and home supply stores	553	10.20	10.21	10.47	10.56	—	389.64	385.94	402.05	404.45	—
Gasoline service stations	554	7.95	7.99	8.28	8.29	—	253.61	252.48	269.10	267.77	—
Automotive dealers, nec	559	13.62	13.62	13.21	13.34	—	491.68	480.79	459.71	476.24	—
Apparel and accessory stores	56	8.60	8.59	9.00	9.00	—	227.04	235.37	232.20	230.40	—
Men's and boys' clothing stores	561	10.17	10.24	10.53	10.55	—	286.79	301.06	298.00	295.40	—
Women's clothing stores	562	8.53	8.47	9.04	9.06	—	199.60	205.82	208.82	205.66	—
Family clothing stores	565	8.44	8.43	8.68	8.73	—	232.10	243.63	228.28	228.73	—
Shoe stores	566	8.29	8.39	8.77	8.65	—	218.03	229.89	234.16	230.96	—
Furniture and home furnishings stores	57	12.04	12.15	12.39	12.31	—	397.32	407.03	405.15	400.08	—
Furniture and home furnishings stores	571	11.43	11.55	11.80	11.79	—	378.33	384.62	389.40	389.07	—
Household appliance stores	572	11.29	11.59	11.43	11.46	—	386.12	404.49	387.48	381.62	—
Radio, television, and computer stores	573	12.86	12.90	13.21	13.06	—	420.52	432.15	426.68	415.31	—
Radio, television, and electronic stores	5731	11.77	12.33	11.99	11.89	—	383.70	429.08	380.08	370.97	—
Record and prerecorded tape stores	5735	7.13	7.08	7.64	7.50	—	172.55	177.71	190.24	183.75	—
Eating and drinking places ⁴	58	6.45	6.53	6.71	6.73	—	163.83	165.86	171.11	170.27	—
Miscellaneous retail establishments	59	9.52	9.53	9.91	9.92	—	279.89	289.71	289.37	289.66	—
Drug stores and proprietary stores	591	10.18	10.20	10.62	10.73	—	292.17	295.80	305.86	310.10	—
Used merchandise stores	593	8.01	8.09	8.26	8.24	—	242.70	246.75	252.76	248.85	—
Miscellaneous shopping goods stores	594	8.77	8.71	9.13	9.10	—	240.30	250.85	249.25	246.61	—
Nonstore retailers	596	9.91	10.10	10.33	10.33	—	328.02	355.52	332.63	339.86	—
Fuel dealers	598	13.11	13.26	13.26	13.41	—	504.74	506.53	490.62	500.19	—
Retail stores, nec	599	9.66	9.75	10.06	10.02	—	294.63	305.18	302.81	301.60	—
Optical goods stores	5995	11.37	11.49	11.51	11.66	—	386.58	384.92	382.13	377.78	—
Miscellaneous retail stores, nec	5999	9.96	10.11	10.51	10.42	—	303.78	314.42	316.35	315.73	—
Finance, insurance, and real estate⁵		14.43	14.40	14.68	14.72	\$14.74	532.47	521.28	529.95	529.92	\$532.11
Depository institutions	60	11.08	11.11	11.25	11.36	—	403.31	391.07	398.25	399.87	—
Commercial banks	602	10.71	10.69	10.78	10.90	—	390.92	374.15	381.61	382.59	—
State commercial banks	6022	10.37	10.37	10.51	10.47	—	374.36	362.95	368.90	364.36	—
National and commercial banks, nec	6021,9	10.93	10.91	10.96	11.18	—	403.32	381.85	390.18	394.65	—
Credit unions	606	10.81	10.79	11.10	11.09	—	388.08	384.12	391.83	391.48	—
Nondepository institutions	61	15.10	15.07	15.50	15.31	—	600.98	577.18	576.60	572.59	—
Personal credit institutions	614	12.39	12.25	12.74	12.65	—	501.80	474.08	485.39	484.50	—
Security and commodity brokers: Security and commodity services	628	21.37	21.26	21.96	21.95	—	844.12	799.38	825.70	823.13	—
Insurance carriers	63	16.92	16.76	17.07	17.08	—	659.88	653.64	660.61	659.29	—
Life insurance	631	15.34	15.29	15.56	15.53	—	598.26	593.25	599.06	599.46	—
Medical service and health insurance	632	16.25	16.08	16.35	16.58	—	632.13	619.08	629.48	635.01	—
Hospital and medical service plans	6324	16.67	16.51	16.68	16.86	—	655.13	642.24	653.86	660.91	—
Fire, marine, and casualty insurance	633	18.29	18.05	18.62	18.47	—	713.31	714.78	731.77	716.64	—
Services		13.15	13.18	13.54	13.60	13.71	431.32	429.67	442.76	444.72	448.32
Agricultural services	07	10.16	10.26	10.57	10.70	—	351.54	346.79	375.24	374.50	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Services—Continued											
Agricultural services—Continued											
Veterinary services	074	28.7	28.1	28.7	28.3	-	-	-	-	-	-
Landscape and horticultural services	078	37.0	36.4	38.3	37.8	-	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels ⁴	701	31.2	30.0	31.2	30.6	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.3	34.4	34.4	34.4	-	-	-	-	-	-
Beauty shops ⁴	723	28.0	28.4	27.7	28.2	-	-	-	-	-	-
Miscellaneous personal services	729	27.6	26.6	28.1	27.8	-	-	-	-	-	-
Business services											
Advertising	731	37.6	36.6	36.1	36.1	-	-	-	-	-	-
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services	7334	36.2	36.0	36.7	36.4	-	-	-	-	-	-
Services to buildings	734	28.5	28.6	29.0	29.0	-	-	-	-	-	-
Disinfecting and pest control services	7342	39.0	38.2	37.9	37.5	-	-	-	-	-	-
Building maintenance services, nec	7349	27.6	27.7	28.2	28.3	-	-	-	-	-	-
Miscellaneous equipment rental and leasing	735	39.2	39.2	38.5	38.1	-	-	-	-	-	-
Medical equipment rental	7352	37.3	37.4	34.9	34.7	-	-	-	-	-	-
Heavy construction equipment rental	7353	40.7	41.0	40.8	41.3	-	-	-	-	-	-
Equipment rental and leasing, nec	7359	39.1	39.1	38.6	37.9	-	-	-	-	-	-
Personnel supply services:											
Help supply services	7363	32.5	33.0	32.4	32.8	-	-	-	-	-	-
Computer and data processing services	737	39.1	38.3	38.8	38.5	-	-	-	-	-	-
Computer programming services	7371	38.8	38.5	37.6	37.9	-	-	-	-	-	-
Computer integrated systems design	7373	40.7	39.2	39.4	39.4	-	-	-	-	-	-
Information retrieval services	7375	39.1	38.7	39.8	38.8	-	-	-	-	-	-
Computer maintenance and repair	7378	40.8	39.8	39.5	39.5	-	-	-	-	-	-
Miscellaneous business services	738	33.4	33.5	33.6	33.6	-	-	-	-	-	-
Detective and armored car services	7381	34.8	34.9	35.3	35.6	-	-	-	-	-	-
Security systems services	7382	37.0	36.9	37.5	37.3	-	-	-	-	-	-
Auto repair, services, and parking											
Automotive rentals, without drivers	751	36.5	35.9	35.7	35.6	-	-	-	-	-	-
Passenger car rental	7514	36.3	35.5	35.2	35.1	-	-	-	-	-	-
Automobile parking	752	32.9	33.0	32.5	33.0	-	-	-	-	-	-
Automotive repair shops	753	37.9	37.9	37.6	37.3	-	-	-	-	-	-
Automotive and tire repair shops	7532,4	38.0	38.1	38.1	37.9	-	-	-	-	-	-
General automotive repair shops	7538	37.8	37.7	36.8	36.7	-	-	-	-	-	-
Automotive services, except repair	754	30.1	30.4	30.6	31.0	-	-	-	-	-	-
Carwashes	7542	26.5	27.3	28.1	28.8	-	-	-	-	-	-
Miscellaneous repair services	76	37.9	37.9	38.1	37.8	-	-	-	-	-	-
Motion pictures											
Motion picture production and services	781	39.5	40.5	40.1	40.5	-	-	-	-	-	-
Video tape rental	784	23.4	23.2	23.8	23.4	-	-	-	-	-	-
Amusement and recreation services											
Bowling centers	793	25.3	25.1	25.4	25.5	-	-	-	-	-	-
Misc. amusement and recreation services	799	26.0	25.9	25.5	25.6	-	-	-	-	-	-
Physical fitness facilities	7991	19.8	19.1	19.6	19.4	-	-	-	-	-	-
Membership sports and recreation clubs	7997	27.4	28.8	27.4	27.1	-	-	-	-	-	-
Health services											
Offices and clinics of medical doctors	801	33.1	32.8	33.6	32.8	-	-	-	-	-	-
Offices and clinics of dentists	802	28.4	28.4	27.6	27.9	-	-	-	-	-	-
Offices and clinics of other health practitioners	804	30.6	30.1	30.3	30.3	-	-	-	-	-	-
Nursing and personal care facilities	805	32.8	32.5	32.3	32.4	-	-	-	-	-	-
Intermediate care facilities	8052	32.0	31.8	31.4	31.5	-	-	-	-	-	-
Hospitals	806	34.9	34.9	34.7	34.7	-	-	-	-	-	-

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Services—Continued											
Agricultural services—Continued											
Veterinary services	074	\$10.19	\$10.22	\$10.42	\$10.51	—	\$292.45	\$287.18	\$299.05	\$297.43	—
Landscape and horticultural services	078	10.21	10.33	10.65	10.78	—	377.77	376.01	407.90	407.48	—
Hotels and other lodging places:											
Hotels and motels ⁴	701	9.12	9.24	9.39	9.47	—	284.54	277.20	292.97	289.78	—
Personal services:											
Laundry, cleaning, and garment services	721	8.55	8.60	8.88	8.87	—	293.27	295.84	305.47	305.13	—
Beauty shops ⁴	723	9.41	9.72	9.90	9.91	—	263.48	276.05	274.23	279.46	—
Miscellaneous personal services	729	9.38	9.54	9.94	9.99	—	258.89	253.76	279.31	277.72	—
Business services											
Advertising	731	12.84	12.82	13.30	13.36	—	433.99	434.60	449.54	452.90	—
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services	7334	11.45	11.46	11.91	11.74	—	414.49	412.56	437.10	427.34	—
Services to buildings	734	8.32	8.32	8.68	8.70	—	237.12	237.95	251.72	252.30	—
Disinfecting and pest control services	7342	11.57	11.42	11.93	11.80	—	451.23	436.24	452.15	442.50	—
Building maintenance services, nec	7349	7.90	7.95	8.29	8.33	—	218.04	220.22	233.78	235.74	—
Miscellaneous equipment rental and leasing	735	13.05	13.21	13.58	13.76	—	511.56	517.83	522.83	524.26	—
Medical equipment rental	7352	13.04	12.99	13.29	13.63	—	486.39	485.83	463.82	472.96	—
Heavy construction equipment rental	7353	16.68	17.02	18.13	17.99	—	678.88	697.82	739.70	742.99	—
Equipment rental and leasing, nec	7359	11.85	11.97	12.13	12.32	—	463.34	468.03	468.22	466.93	—
Personnel supply services:											
Help supply services	7363	10.28	10.36	10.59	10.63	—	334.10	341.88	343.12	348.66	—
Computer and data processing services	737	21.89	21.73	22.64	22.69	—	855.90	832.26	878.43	873.57	—
Computer programming services	7371	25.06	24.78	25.83	25.78	—	972.33	954.03	971.21	977.06	—
Computer integrated systems design	7373	21.10	21.09	22.07	21.65	—	858.77	826.73	869.56	853.01	—
Information retrieval services	7375	15.98	15.67	15.67	15.62	—	624.82	606.43	623.67	606.06	—
Computer maintenance and repair	7378	17.50	17.46	17.11	17.51	—	714.00	694.91	675.85	691.65	—
Miscellaneous business services	738	10.23	10.26	10.62	10.69	—	341.68	343.71	356.83	359.18	—
Detective and armored car services	7381	8.41	8.48	8.73	8.84	—	292.67	295.95	308.17	314.70	—
Security systems services	7382	13.74	13.91	13.81	14.22	—	508.38	513.28	517.88	530.41	—
Auto repair, services, and parking											
Automotive rentals, without drivers	751	10.75	10.79	11.11	11.15	—	392.38	387.36	396.63	396.94	—
Passenger car rental	7514	9.63	9.67	10.20	10.12	—	349.57	343.29	359.04	355.21	—
Automobile parking	752	8.26	8.50	8.67	8.61	—	271.75	280.50	281.78	284.13	—
Automotive repair shops	753	12.60	12.67	12.94	13.05	—	477.54	480.19	486.54	486.77	—
Automotive and tire repair shops	7532,4	13.33	13.40	13.53	13.72	—	506.54	510.54	515.49	519.99	—
General automotive repair shops	7538	12.40	12.44	12.79	12.83	—	468.72	468.99	470.67	470.86	—
Automotive services, except repair	754	8.58	8.63	8.70	8.65	—	258.26	262.35	266.22	268.15	—
Carwashes	7542	7.53	7.64	7.72	7.68	—	199.55	208.57	216.93	221.18	—
Miscellaneous repair services	76	13.48	13.57	13.95	13.98	—	510.89	514.30	531.50	528.44	—
Motion pictures											
Motion picture production and services	781	20.95	20.90	20.89	20.97	—	827.53	846.45	837.69	849.29	—
Video tape rental	784	7.23	7.18	7.48	7.60	—	169.18	166.58	178.02	177.84	—
Amusement and recreation services											
Bowling centers	793	7.64	7.64	7.85	7.87	—	193.29	191.76	199.39	200.69	—
Misc. amusement and recreation services	799	9.27	9.41	9.43	9.63	—	241.02	243.72	240.47	246.53	—
Physical fitness facilities	7991	8.94	9.06	9.42	9.65	—	177.01	173.05	184.63	187.21	—
Membership sports and recreation clubs	7997	9.78	10.03	9.94	10.09	—	267.97	288.86	272.36	273.44	—
Health services											
Offices and clinics of medical doctors	801	14.49	14.58	15.13	15.05	—	479.62	478.22	508.37	493.64	—
Offices and clinics of dentists	802	14.38	14.51	14.96	15.10	—	408.39	412.08	412.90	421.29	—
Offices and clinics of other health practitioners	804	13.06	12.99	13.01	13.08	—	399.64	391.00	394.20	396.32	—
Nursing and personal care facilities	805	9.87	9.95	10.35	10.39	—	323.74	323.38	334.31	336.64	—
Intermediate care facilities	8052	9.43	9.51	9.93	10.01	—	301.76	302.42	311.80	315.32	—
Hospitals	806	15.66	15.71	16.15	16.13	—	546.53	548.28	560.41	559.71	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999 ^P	Dec. 1999 ^P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999 ^P	Dec. 1999 ^P
Services—Continued											
Health services—Continued											
Home health care services	808	29.0	28.8	29.5	29.5	—	—	—	—	—	—
Legal services	81	35.5	34.8	34.9	34.8	—	—	—	—	—	—
Social services	83	31.6	31.2	31.2	31.2	—	—	—	—	—	—
Individual and family services	832	31.8	31.6	31.1	31.1	—	—	—	—	—	—
Job training and related services	833	31.0	30.7	30.9	30.8	—	—	—	—	—	—
Child day care services	835	30.0	29.6	29.9	29.8	—	—	—	—	—	—
Residential care	836	32.7	32.2	32.2	32.3	—	—	—	—	—	—
Social services, nec	839	33.0	32.7	32.9	32.7	—	—	—	—	—	—
Membership organizations:											
Professional organizations	862	36.0	35.1	35.6	35.4	—	—	—	—	—	—
Engineering and management services	87	37.6	37.1	37.1	37.0	—	—	—	—	—	—
Engineering and architectural services	871	39.5	39.2	39.3	39.2	—	—	—	—	—	—
Engineering services	8711	39.7	39.7	39.8	39.6	—	—	—	—	—	—
Architectural services	8712	38.9	37.9	37.9	38.1	—	—	—	—	—	—
Surveying services	8713	38.2	37.9	37.3	37.6	—	—	—	—	—	—
Accounting, auditing, and bookkeeping	872	36.7	35.9	36.5	36.3	—	—	—	—	—	—
Research and testing services	873	36.8	36.4	36.1	36.0	—	—	—	—	—	—
Commercial physical research	8731	39.7	39.1	38.8	38.9	—	—	—	—	—	—
Commercial nonphysical research	8732	31.3	31.8	31.1	30.2	—	—	—	—	—	—
Noncommercial research organizations	8733	36.3	35.8	35.7	36.1	—	—	—	—	—	—
Management and public relations	874	36.7	36.1	36.0	36.0	—	—	—	—	—	—
Management services	8741	35.5	35.1	35.8	35.3	—	—	—	—	—	—
Management consulting services	8742	37.3	36.5	36.5	36.6	—	—	—	—	—	—
Public relations services	8743	34.6	34.1	35.6	35.3	—	—	—	—	—	—
Services, nec	89	35.9	35.4	35.8	35.6	—	—	—	—	—	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Services—Continued											
Health services—Continued											
Home health care services	808	\$11.65	\$11.68	\$12.16	\$12.16	—	\$337.85	\$336.38	\$358.72	\$358.72	—
Legal services	81	18.60	18.54	19.21	19.31	—	660.30	645.19	670.43	671.99	—
Social services	83	9.37	9.40	9.72	9.73	—	296.09	293.28	303.26	303.58	—
Individual and family services	832	9.88	9.86	10.18	10.20	—	314.18	311.58	316.60	317.22	—
Job training and related services	833	9.16	9.16	9.40	9.41	—	283.96	281.21	290.46	289.83	—
Child day care services	835	8.12	8.16	8.45	8.46	—	243.60	241.54	252.66	252.11	—
Residential care	836	9.45	9.52	9.85	9.85	—	309.02	306.54	317.17	318.16	—
Social services, nec	839	11.32	11.23	11.76	11.79	—	373.56	367.22	386.90	385.53	—
Membership organizations:											
Professional organizations	862	18.53	18.39	18.83	18.87	—	667.08	645.49	670.35	668.00	—
Engineering and management services	87	18.27	18.18	18.78	18.84	—	686.95	674.48	696.74	697.08	—
Engineering and architectural services	871	19.97	19.89	20.57	20.61	—	788.82	779.69	808.40	807.91	—
Engineering services	8711	20.93	20.84	21.44	21.52	—	830.92	827.35	853.31	852.19	—
Architectural services	8712	17.84	17.76	18.68	18.64	—	693.98	673.10	707.97	710.18	—
Surveying services	8713	14.00	13.90	14.60	14.57	—	534.80	526.81	544.58	547.83	—
Accounting, auditing, and bookkeeping	872	15.91	15.73	15.93	16.08	—	583.90	564.71	581.45	583.70	—
Research and testing services	873	18.46	18.33	18.47	18.54	—	679.33	667.21	666.77	667.44	—
Commercial physical research	8731	20.56	20.30	20.38	20.43	—	816.23	793.73	790.74	794.73	—
Commercial nonphysical research	8732	15.19	14.86	14.78	14.85	—	475.45	472.55	459.66	448.47	—
Noncommercial research organizations	8733	21.46	21.69	22.23	22.25	—	779.00	776.50	793.61	803.23	—
Management and public relations	874	17.74	17.71	18.71	18.72	—	651.06	639.33	673.56	673.92	—
Management services	8741	15.85	15.80	16.49	16.64	—	562.68	554.58	590.34	587.39	—
Management consulting services	8742	20.29	20.37	21.86	21.78	—	756.82	743.51	797.89	797.15	—
Public relations services	8743	16.35	16.24	16.96	17.52	—	565.71	553.78	603.78	618.46	—
Services, nec	89	17.71	17.64	18.95	18.94	—	635.79	624.46	678.41	674.26	—

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 B-15a 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 \$253.7 million or more in 1993 and to Amtrak.

⁴ Money payments only; tips, not included.

⁵ Excludes nonoffice commissioned real estate sales agents.

— Data not available.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 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 bargaining 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 B-15a 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.

B-15a. 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)			
	Oct. 1998	Nov. 1998	Oct. 1999	Nov. 1999 ^P	Oct. 1998	Nov. 1998	Oct. 1999	Nov. 1999 ^P
Average hourly earnings, excluding lump-sum payments	\$21.51	\$21.54	\$22.28	\$22.25	\$21.55	\$21.61	\$21.72	\$21.63
Average hourly earnings, including lump-sum payments	21.59	21.63	22.35	22.32	21.78	21.83	21.86	21.73

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

B-16. Average hourly earnings, excluding overtime¹, of production workers on manufacturing payrolls

Industry	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Manufacturing	\$12.87	\$12.94	\$13.27	\$13.32	\$13.42
Durable goods	13.31	13.36	13.75	13.78	13.88
Lumber and wood products	10.66	10.73	10.99	11.02	(2)
Furniture and fixtures	10.53	10.59	10.82	10.85	(2)
Stone, clay, and glass products	12.72	12.78	13.02	13.09	(2)
Primary metal industries	14.34	14.32	14.90	14.97	(2)
Fabricated metal products	12.49	12.58	12.77	12.82	(2)
Industrial machinery and equipment	13.85	13.88	14.36	14.35	(2)
Electronic and other electrical equipment	12.55	12.63	12.95	12.93	(2)
Transportation equipment	16.42	16.41	17.30	17.33	(2)
Instruments and related products	13.38	13.44	13.78	13.74	(2)
Miscellaneous manufacturing	10.61	10.71	11.02	11.02	(2)
Nondurable goods	12.23	12.31	12.55	12.62	\$12.71
Food and kindred products	11.20	11.28	11.30	11.44	(2)
Tobacco products	16.71	16.29	17.20	17.17	(2)
Textile mill products	9.96	9.99	10.18	10.24	(2)
Apparel and other textile products	8.39	8.45	8.69	8.75	(2)
Paper and allied products	14.67	14.82	15.07	15.10	(2)
Printing and publishing	12.99	13.11	13.39	13.42	(2)
Chemicals and allied products	16.29	16.34	16.68	16.69	(2)
Petroleum and coal products	19.53	19.87	20.08	20.31	(2)
Rubber and misc. plastics products	11.36	11.44	11.74	11.75	(2)
Leather and leather products	9.17	9.17	9.55	9.53	(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 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

B-17. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, in current and constant (1982) dollars

Industry	Average hourly earnings					Average weekly earnings				
	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P	Nov. 1998	Dec. 1998	Oct. 1999	Nov. 1999P	Dec. 1999P
Total private:										
Current dollars	\$13.00	\$13.00	\$13.41	\$13.44	\$13.48	\$451.10	\$451.10	\$463.99	\$463.68	\$466.41
Constant (1982) dollars	7.84	7.84	7.87	7.88	(2)	272.07	272.07	272.45	271.79	(2)
Mining:										
Current dollars	17.29	17.29	17.00	16.94	\$17.22	757.30	755.57	758.20	757.22	\$778.34
Constant (1982) dollars	10.43	10.43	9.98	9.93	(2)	456.76	455.71	445.21	443.86	(2)
Construction:										
Current dollars	16.82	16.87	17.49	17.38	\$17.43	649.25	659.62	699.60	686.51	\$674.54
Constant (1982) dollars	10.14	10.17	10.27	10.19	(2)	391.59	397.84	410.80	402.41	(2)
Manufacturing:										
Current dollars	13.60	13.69	14.04	14.09	\$14.22	573.92	583.19	589.68	594.60	\$605.77
Constant (1982) dollars	8.20	8.26	8.24	8.26	(2)	346.15	351.74	346.26	348.53	(2)
Transportation and public utilities:										
Current dollars	15.48	15.50	15.76	15.86	\$15.89	614.56	606.05	605.18	605.85	\$607.00
Constant (1982) dollars	9.34	9.35	9.25	9.30	(2)	370.66	365.53	355.36	355.13	(2)
Wholesale trade:										
Current dollars	14.34	14.32	14.78	14.86	\$14.98	554.96	549.89	570.51	570.62	\$576.73
Constant (1982) dollars	8.65	8.64	8.68	8.71	(2)	334.72	331.66	335.00	334.48	(2)
Retail trade:										
Current dollars	8.86	8.88	9.20	9.21	\$9.25	256.05	259.30	264.96	264.33	\$270.10
Constant (1982) dollars	5.34	5.36	5.40	5.40	(2)	154.43	156.39	155.58	154.94	(2)
Finance, insurance, and real estate:										
Current dollars	14.43	14.40	14.68	14.72	\$14.74	532.47	521.28	529.95	529.92	\$532.11
Constant (1982) dollars	8.70	8.69	8.62	8.63	(2)	321.15	314.40	311.19	310.62	(2)
Services:										
Current dollars	13.15	13.18	13.54	13.60	\$13.71	431.32	429.67	442.76	444.72	\$448.32
Constant (1982) dollars	7.93	7.95	7.95	7.97	(2)	260.14	259.15	259.99	260.68	(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 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

B-18. 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		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Alabama	43.0	42.2	42.6	\$12.24	\$12.54	\$12.56	\$526.32	\$529.19	\$535.06
Birmingham	43.0	41.2	41.2	12.90	13.34	13.28	554.70	549.61	547.14
Mobile	45.9	42.5	41.6	13.68	14.14	14.35	626.99	600.95	596.96
Alaska	37.6	43.6	36.0	13.07	12.63	13.67	491.43	550.67	492.12
Arizona	40.0	40.7	40.4	12.37	12.63	12.71	494.80	514.04	513.48
Arkansas	41.8	41.8	41.7	11.19	11.57	11.67	467.74	483.63	486.64
Fayetteville-Springdale-Rogers	42.6	40.6	40.7	10.79	11.51	11.23	459.65	467.31	457.06
Fort Smith	43.1	41.5	41.7	11.33	11.34	11.58	488.32	470.61	482.89
Little Rock-North Little Rock	41.9	41.4	41.1	11.91	12.38	12.35	499.03	512.53	507.59
Pine Bluff	40.1	40.3	39.9	13.24	13.46	13.10	530.92	542.44	522.69
California	42.1	41.8	42.1	13.84	13.99	14.01	582.66	584.78	589.82
Bakersfield	41.6	41.2	40.5	13.91	13.89	13.89	578.66	572.27	562.55
Fresno	41.7	41.1	41.5	12.15	12.17	12.24	506.66	500.19	507.96
Los Angeles-Long Beach	42.6	42.3	42.6	12.95	13.03	13.01	551.67	551.17	554.23
Modesto	42.0	42.4	43.0	13.94	14.12	14.19	585.48	598.69	610.17
Oakland	42.4	41.7	41.8	15.71	15.71	15.73	666.10	655.11	657.51
Orange County	43.6	43.0	43.4	13.13	13.54	13.52	572.47	582.22	586.77
Riverside-San Bernardino	42.2	42.7	42.4	12.19	12.51	12.54	514.42	534.18	531.70
Sacramento	41.3	41.4	40.9	14.89	15.13	15.16	614.96	626.38	620.04
Salinas	39.9	43.2	43.2	14.33	13.94	13.90	571.77	602.21	600.48
San Diego	40.6	40.0	40.5	13.67	13.65	13.62	555.00	546.00	551.61
San Francisco	40.6	40.5	40.5	14.75	14.82	14.92	598.85	600.21	604.26
San Jose	42.9	41.7	42.6	17.03	17.32	17.36	730.59	722.24	739.54
Santa Barbara-Santa Maria-Lompoc	41.5	41.8	41.9	14.28	14.35	14.42	592.62	599.83	604.20
Santa Rosa	40.6	40.9	40.7	15.32	15.70	15.71	621.99	642.13	639.40
Stockton-Lodi	42.4	41.9	41.7	13.45	13.40	13.39	570.28	561.46	558.36
Vallejo-Fairfield-Napa	42.5	41.8	41.7	15.89	16.05	16.00	675.33	670.89	667.20
Ventura	43.0	42.7	42.5	12.43	12.59	12.59	534.49	537.59	535.08
Colorado	41.7	40.9	41.8	13.92	14.39	14.41	580.46	588.55	602.34
Denver	43.5	41.3	42.1	13.00	13.75	13.60	565.50	567.88	572.56
Connecticut	43.2	42.7	43.0	14.94	15.64	15.64	645.41	667.83	672.52
Bridgeport	42.0	41.2	42.2	15.19	16.15	15.91	637.98	665.38	671.40
Danbury	42.8	42.8	42.9	15.02	15.37	15.65	642.86	657.84	671.39
Hartford	43.6	42.9	43.2	15.67	16.39	16.42	683.21	703.13	709.34
New Haven-Meriden	42.6	42.3	42.3	14.86	14.95	15.04	633.04	632.39	636.19
New London-Norwich	43.2	42.9	42.9	15.66	16.09	16.13	676.51	690.26	691.98
Stamford-Norwalk	39.6	40.2	39.9	13.71	13.44	13.42	542.92	540.29	535.46
Waterbury	44.3	43.9	44.8	14.21	14.53	14.74	629.50	637.87	660.35
Delaware	43.6	44.5	44.3	15.62	15.92	15.92	681.03	708.44	705.26
Dover	39.8	41.6	41.1	13.71	14.43	14.15	545.66	600.29	581.57
Wilmington-Newark	44.8	45.9	46.1	18.66	19.14	19.15	835.97	878.53	882.82
District of Columbia:									
Washington PMSA	39.6	39.4	40.3	14.82	15.21	15.30	586.87	599.27	616.59
Florida	42.1	42.4	43.1	11.56	11.85	12.00	486.68	502.44	517.20
Georgia	41.9	41.2	41.7	12.17	12.63	12.61	509.92	520.36	525.84
Atlanta	42.0	40.1	40.4	12.96	13.41	13.32	544.32	537.74	538.13
Savannah	48.6	46.9	47.1	15.73	16.51	16.33	764.48	774.32	769.14
Hawaii	38.7	39.3	38.1	12.79	13.36	13.43	494.97	525.05	511.68
Honolulu	40.0	39.8	39.3	12.84	13.20	13.03	513.60	525.36	512.08
Idaho	39.8	39.6	40.0	12.94	13.88	13.72	515.01	549.65	548.80
Illinois	41.9	42.3	42.3	13.84	14.14	14.11	579.90	598.12	596.85
Bloomington-Normal	39.4	41.3	41.4	17.56	18.70	18.86	691.86	772.31	780.80
Champaign-Urbana	41.6	41.6	40.8	11.26	11.93	12.24	468.42	496.29	499.39
Chicago	42.2	42.6	42.6	13.54	13.84	13.84	571.39	589.58	589.58
Davenport-Moline-Rock Island	43.0	39.9	40.6	15.64	15.62	15.77	672.52	623.24	640.26
Decatur	42.3	40.0	40.5	16.87	16.64	16.64	713.60	665.60	673.92
Kankakee	41.2	43.2	42.2	15.55	15.63	15.69	640.66	675.22	662.12
Peoria-Pekin	42.8	40.7	40.6	16.49	16.47	16.64	705.77	670.33	675.58
Rockford	42.2	43.8	42.9	15.40	16.78	16.46	649.88	734.96	706.13
Springfield	41.2	39.2	39.6	12.45	12.64	12.80	512.94	495.49	506.88

See footnotes at end of table.

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

B-18. 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		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
Indiana	43.5	42.8	43.0	\$15.04	\$15.42	\$15.41	\$654.24	\$659.98	\$662.63
Bloomington	40.5	41.2	40.9	11.99	13.38	13.57	485.60	551.26	555.01
Elkhart-Goshen	40.4	39.8	39.5	12.54	13.72	13.94	506.62	546.06	550.63
Evansville-Henderson	43.8	43.9	43.7	14.29	15.20	14.92	625.90	667.28	652.00
Fort Wayne	41.9	41.7	41.8	14.80	15.78	15.66	620.12	658.03	654.59
Gary	44.5	43.3	43.8	18.77	20.22	20.47	835.27	875.53	896.59
Indianapolis	44.3	44.2	44.1	15.54	15.50	15.49	688.42	685.10	683.11
Kokomo	49.3	49.9	49.4	22.48	23.38	23.05	1,108.26	1,166.66	1,138.67
Lafayette	44.1	43.1	43.1	15.87	16.66	16.61	699.87	718.05	715.89
Muncie	45.6	45.5	45.6	14.85	15.00	15.03	677.16	682.50	685.37
South Bend	41.5	40.9	41.1	12.29	12.42	12.57	510.04	507.98	516.63
Terre Haute	45.9	44.8	45.3	14.75	13.85	14.01	677.03	620.48	634.65
Iowa	42.2	41.6	41.9	14.01	14.05	14.16	591.22	584.48	593.30
Cedar Rapids	42.2	40.4	40.5	17.63	17.40	17.69	743.99	702.96	716.45
Des Moines	42.8	39.5	40.9	14.04	14.35	14.63	600.91	566.83	598.37
Dubuque	40.0	39.3	40.0	15.79	15.40	15.34	631.60	605.22	613.60
Sioux City	39.4	40.7	40.2	12.06	11.96	12.04	475.16	486.77	484.01
Kansas	41.4	41.2	41.3	14.07	14.55	14.53	582.50	599.46	600.09
Topeka	41.4	38.4	39.0	16.35	16.71	17.07	676.89	641.66	665.73
Wichita	42.9	41.5	41.6	16.23	16.72	16.62	696.27	693.88	691.39
Kentucky	41.6	41.8	42.2	13.91	14.36	14.36	578.66	600.25	605.99
Lexington	42.2	42.8	43.1	13.99	15.12	15.16	590.38	647.14	653.40
Louisville	42.8	42.2	42.2	15.74	16.36	16.41	673.67	690.39	692.50
Louisiana	44.0	43.2	44.1	14.44	15.41	15.33	635.36	665.71	676.05
Baton Rouge	43.6	44.3	44.3	16.96	17.99	17.95	739.46	796.96	795.19
New Orleans	44.5	44.1	44.3	14.85	15.15	14.91	660.83	668.12	660.51
Shreveport-Bossier City	42.5	42.9	43.6	14.88	15.21	14.76	632.40	652.51	643.54
Maine	41.0	41.0	41.6	13.32	14.07	13.88	546.12	576.87	577.41
Lewiston-Auburn	42.8	41.9	41.9	11.89	12.48	12.53	508.89	522.91	525.01
Portland	43.6	44.8	44.6	11.30	11.74	11.52	492.68	525.95	513.79
Maryland	42.2	42.2	41.9	14.33	14.53	14.36	604.73	613.17	601.68
Baltimore PMSA	42.2	41.6	41.3	14.76	15.48	15.34	622.87	643.97	633.54
Massachusetts	42.4	41.6	42.3	13.91	14.33	14.37	589.78	596.13	607.85
Boston	41.5	41.1	41.2	15.21	15.64	15.72	631.22	642.80	647.66
Springfield	42.8	41.0	41.3	13.54	13.90	13.93	579.51	569.90	575.31
Worcester	42.8	41.3	43.0	14.12	14.54	14.55	604.34	600.50	625.65
Michigan	43.9	44.9	44.5	18.23	18.09	18.02	800.30	812.24	801.89
Ann Arbor	45.6	45.5	45.5	19.88	19.85	19.74	906.53	903.18	898.17
Detroit	43.6	46.2	45.5	20.13	20.15	19.95	877.67	930.93	907.73
Flint	43.3	44.7	46.0	27.50	24.84	25.20	1,190.75	1,110.35	1,159.20
Grand Rapids-Muskegon-Holland	42.2	42.6	42.9	15.49	15.06	14.99	653.68	641.56	643.07
Jackson	41.6	41.3	41.3	12.60	13.21	13.14	524.16	545.57	542.68
Kalamazoo-Battle Creek	43.4	43.6	43.3	16.08	14.80	14.88	697.87	645.28	644.30
Lansing East Lansing	43.4	42.1	42.2	19.59	19.84	19.14	850.21	835.26	807.71
Saginaw-Bay City-Midland	47.2	46.1	47.0	22.79	23.31	22.52	1,075.69	1,074.59	1,058.44
Minnesota	41.1	42.0	41.7	13.95	14.54	14.41	573.35	610.68	600.90
Duluth-Superior	40.1	38.7	39.9	12.66	12.72	12.90	507.67	492.26	514.71
Minneapolis-St. Paul	42.3	42.3	42.4	14.78	15.61	15.43	625.19	660.30	654.23
St. Cloud	42.9	43.4	42.8	13.45	13.94	14.13	577.01	605.00	604.76
Mississippi	41.8	41.3	41.5	10.80	11.25	11.31	451.44	464.63	469.37
Jackson	41.7	41.7	42.1	12.15	13.13	13.14	506.66	547.52	553.19
Missouri	41.4	41.2	40.9	13.74	13.86	13.93	568.84	571.03	569.74
Kansas City	43.9	42.6	42.2	14.28	14.58	14.69	626.89	621.11	619.92
St. Louis	42.5	41.9	42.0	16.62	16.03	16.19	706.35	671.66	679.98
Springfield	40.5	41.6	41.3	11.60	11.85	11.81	469.80	492.96	487.75
Montana	36.4	39.5	38.5	13.17	14.13	14.23	479.39	558.14	547.86
Nebraska	42.8	41.5	41.5	12.43	13.07	12.83	532.00	542.41	532.45
Lincoln	44.5	45.6	45.9	14.02	14.72	14.71	623.89	671.23	675.19
Omaha	43.4	42.1	41.7	13.04	13.63	13.46	565.94	573.82	561.28
Nevada	43.1	40.6	41.3	14.47	13.80	13.81	623.66	560.28	570.35
Las Vegas	40.9	41.7	41.9	16.38	12.85	13.00	669.94	535.85	544.70

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

B-18. 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		
	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P	November 1998	October 1999	November 1999P
New Hampshire	41.4	40.3	40.6	\$12.88	\$13.06	\$13.22	\$533.23	\$526.32	\$536.73
Manchester	41.8	38.8	39.3	13.43	14.01	14.59	561.37	543.59	573.39
Nashua	42.0	41.8	41.6	15.08	13.60	13.63	633.36	568.48	567.01
Portsmouth-Rochester	40.2	40.2	41.3	12.20	13.09	13.15	490.44	526.22	543.10
New Jersey	42.4	41.9	42.2	14.62	15.21	15.22	619.89	637.30	642.28
New Mexico	39.7	38.1	38.2	12.31	12.62	12.71	488.71	480.82	485.52
Albuquerque	38.5	37.8	38.1	13.53	14.45	14.39	520.91	546.21	548.26
New York	41.5	41.4	41.9	13.71	14.16	14.19	568.97	586.22	594.56
Albany-Schenectady-Troy	43.1	42.8	43.4	14.68	15.75	15.64	632.71	674.10	678.78
Binghamton	41.3	42.4	42.2	10.69	11.19	11.35	441.50	474.46	478.97
Buffalo-Niagara Falls	42.9	43.8	44.8	17.46	18.22	18.09	749.03	798.04	810.43
Dutchess County	40.6	41.5	42.3	12.10	11.97	11.91	491.26	496.76	503.79
Elmira	42.4	41.6	41.7	12.74	12.96	13.11	540.18	539.14	546.69
Nassau-Suffolk	41.0	40.0	39.5	12.48	13.14	13.14	511.68	525.60	519.03
New York PMSA	39.3	39.5	39.8	12.47	12.77	12.80	490.07	504.42	509.44
New York City	39.0	39.0	39.2	12.21	12.50	12.52	476.19	487.50	490.78
Newburgh	40.5	41.3	42.7	11.18	11.34	11.45	452.79	468.34	488.92
Rochester	43.4	41.8	42.2	15.39	16.11	16.25	667.93	673.40	685.75
Rockland County	42.4	43.9	44.3	15.84	16.00	16.09	671.62	702.40	712.79
Syracuse	42.7	41.6	41.9	14.73	15.37	15.41	628.97	639.39	645.68
Utica-Rome	40.0	40.0	40.3	12.17	12.47	12.57	486.80	498.80	506.57
Westchester County	40.0	41.9	42.7	13.14	13.36	13.32	525.60	559.78	568.76
North Carolina	41.3	41.8	42.0	12.02	12.46	12.51	496.43	520.83	525.42
Asheville	41.4	42.2	42.6	11.43	11.72	11.62	473.20	494.58	495.01
Charlotte-Gastonia-Rock Hill	41.0	41.7	42.5	12.97	13.49	13.54	531.77	562.53	575.45
Greensboro-Winston-Salem-High Point	40.6	40.7	41.0	12.33	12.59	12.65	500.60	512.41	518.65
Raleigh-Durham-Chapel Hill	42.3	44.1	43.9	13.19	13.49	13.55	557.94	594.91	594.85
North Dakota	38.4	40.8	40.3	11.46	12.47	12.40	440.06	508.78	499.72
Fargo-Moorhead	40.5	39.9	39.5	11.16	11.91	11.95	451.98	475.21	472.03
Ohio	43.5	43.3	43.6	16.10	16.32	16.38	700.35	706.66	714.17
Akron	43.2	42.1	42.2	13.35	13.65	13.79	576.72	574.67	581.94
Canton-Massillon	40.4	39.7	40.3	13.98	13.91	14.02	564.79	552.23	565.01
Cincinnati	44.0	43.4	44.0	15.44	15.93	15.96	679.36	691.36	702.24
Cleveland-Lorain-Elyria	43.7	44.0	44.2	15.84	15.77	15.82	692.21	693.88	699.24
Columbus	42.4	42.7	42.7	14.91	15.10	15.19	632.18	644.77	648.61
Dayton-Springfield	44.1	44.6	45.3	17.48	17.19	17.15	770.87	766.67	776.90
Hamilton-Middletown	46.2	46.2	46.1	17.51	17.69	17.97	808.96	817.28	828.42
Lima	43.6	42.7	43.3	16.69	16.79	16.85	727.68	716.93	729.61
Mansfield	44.1	43.5	44.2	16.34	16.49	16.33	720.59	717.32	721.79
Steubenville-Weirton	41.3	41.6	42.0	17.54	18.06	17.61	724.40	751.30	739.62
Toledo	43.5	44.1	44.2	17.36	18.44	18.27	755.16	813.20	807.53
Youngstown-Warren	42.9	42.9	42.8	18.08	17.93	18.02	775.63	769.20	771.26
Oklahoma	41.8	43.0	42.5	12.92	12.67	12.67	540.06	544.81	538.48
Oklahoma City	41.8	45.0	44.3	14.18	14.33	14.01	592.72	644.85	620.64
Tulsa	41.9	43.1	42.6	13.43	13.14	13.02	562.72	566.33	554.65
Oregon	41.4	40.3	40.7	14.46	14.74	14.78	598.64	594.02	601.55
Eugene-Springfield	41.5	40.6	40.8	13.67	13.93	13.97	567.31	565.56	569.98
Medford-Ashland	40.2	39.6	39.8	13.10	13.78	13.72	526.62	545.69	546.06
Portland-Vancouver	41.3	40.7	41.8	14.85	15.14	15.21	613.31	616.20	635.78
Salem	40.9	38.6	38.5	12.42	12.56	12.60	507.98	484.82	485.10
Pennsylvania	42.5	42.2	42.4	14.18	14.35	14.40	602.65	605.57	610.56
Allentown-Bethlehem-Easton	43.1	41.6	42.2	14.78	14.62	14.81	637.02	608.19	624.98
Altoona	40.5	39.7	40.8	12.52	12.54	12.60	507.06	497.84	514.08
Erie	45.3	44.6	45.2	14.45	14.73	14.73	654.59	656.96	665.80
Harrisburg-Lebanon-Carlisle	40.7	41.0	40.8	14.02	14.37	14.54	570.61	589.17	593.23
Johnstown	40.6	39.0	39.5	10.58	10.80	10.89	429.55	421.20	430.16
Lancaster	41.4	41.4	41.1	13.01	13.35	13.44	538.61	552.69	552.38
Philadelphia PMSA	42.0	41.9	42.2	15.40	15.85	15.85	646.80	664.12	668.87
Pittsburgh	42.5	43.3	43.0	15.27	15.33	15.28	648.98	663.79	657.04
Reading	42.4	43.4	43.1	15.23	15.35	15.57	645.75	666.19	671.07
Scranton-Wilkes-Barre-Hazleton	41.0	41.6	41.6	12.87	13.07	13.13	527.67	543.71	546.21
Sharon	43.0	41.5	41.8	14.16	14.28	14.21	608.88	592.62	593.98
State College	42.2	43.7	43.4	12.49	12.44	12.66	527.08	543.63	549.44
Williamsport	40.9	41.4	40.1	11.42	11.93	11.97	467.08	493.90	480.00
York	44.9	43.1	43.2	15.01	15.02	15.16	673.95	647.36	654.91

See footnotes at end of table.

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

B-18. 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		
	November 1998	October 1999	November 1999 ^P	November 1998	October 1999	November 1999 ^P	November 1998	October 1999	November 1999 ^P
Rhode Island	40.2	39.7	40.0	\$11.72	\$12.05	\$12.02	\$471.14	\$478.39	\$480.80
Providence-Fall River-Warwick	41.3	41.1	41.1	12.07	12.31	12.47	498.49	505.94	512.52
South Carolina	42.8	42.7	43.0	10.60	10.91	10.96	453.68	465.86	471.28
South Dakota	42.4	42.9	43.1	10.42	10.65	10.66	441.81	456.89	459.45
Rapid City	40.5	40.3	40.1	10.54	10.80	9.95	426.87	435.24	399.00
Sioux Falls	43.6	44.6	45.1	10.84	11.12	10.21	472.62	495.95	460.47
Tennessee	40.8	40.6	40.8	12.15	12.57	12.63	495.72	510.34	515.30
Chattanooga	42.0	41.5	40.3	11.29	11.65	11.75	474.18	483.48	473.53
Johnson City-Kingsport-Bristol	38.9	41.2	41.5	12.99	13.18	13.23	505.31	543.02	549.05
Knoxville	42.1	41.1	41.3	12.01	12.69	12.64	505.62	521.56	522.03
Memphis	40.5	40.2	38.9	13.13	13.34	13.70	531.77	536.27	532.93
Nashville	40.5	40.1	40.8	12.93	13.46	13.53	523.67	539.75	552.02
Texas	44.0	43.3	43.5	12.15	12.29	12.30	534.60	532.16	535.05
Dallas	43.5	42.1	42.1	12.42	12.48	12.51	540.27	525.41	526.67
Ft. Worth-Arlington	43.5	43.1	43.5	13.21	13.41	13.42	574.64	577.97	583.77
Houston	44.6	44.9	44.6	14.44	14.47	14.55	644.02	649.70	648.93
San Antonio	42.4	42.8	43.0	9.83	10.04	10.02	416.79	429.71	430.86
Utah	41.1	40.9	40.5	13.26	13.57	13.54	544.99	555.01	548.37
Salt Lake City-Ogden	40.9	41.2	41.1	13.01	13.18	13.24	532.11	543.02	544.16
Vermont	39.8	39.8	40.4	13.32	14.03	13.95	530.14	558.39	563.58
Burlington	43.4	39.6	37.6	14.96	14.64	14.90	649.26	579.74	560.24
Virginia	42.8	42.7	42.7	13.05	13.48	13.50	558.54	575.60	576.45
Bristol	42.9	49.9	48.8	10.74	12.94	12.88	460.75	645.71	628.54
Charlottesville	44.9	46.3	48.8	10.64	11.02	11.30	477.74	510.23	551.44
Danville	41.3	44.5	45.6	12.83	13.36	13.49	529.88	594.52	615.14
Lynchburg	48.8	43.2	42.9	13.00	13.17	13.30	634.40	568.94	570.57
Norfolk-Virginia Beach-Newport News	40.3	45.6	44.2	14.83	14.72	14.72	597.65	671.23	650.62
Northern Virginia	42.3	41.0	40.5	13.42	13.91	13.95	567.67	570.31	564.98
Richmond-Petersburg	42.5	44.7	44.7	16.26	16.65	16.57	691.05	744.26	740.68
Roanoke	42.1	39.9	40.8	14.28	14.28	14.55	601.19	569.77	593.64
Washington	41.4	41.4	40.9	15.90	16.22	16.33	658.26	671.51	667.90
West Virginia	42.4	41.4	42.1	14.05	14.19	14.31	595.72	587.47	602.45
Charleston	48.9	49.8	49.9	16.33	16.48	16.43	798.54	820.70	819.86
Huntington-Ashland	43.9	40.4	40.0	16.12	15.07	14.93	707.67	608.83	597.20
Parkersburg-Marietta	43.2	42.2	43.2	17.35	18.11	18.26	749.52	764.24	788.83
Wheeling	42.1	40.5	42.6	17.14	17.04	17.02	721.59	690.12	725.05
Wisconsin	42.5	42.4	42.6	14.37	14.62	14.67	610.73	619.89	624.94
Appleton-Oshkosh-Neenah	44.6	44.4	45.3	15.56	15.97	16.02	693.98	709.07	725.71
Eau Claire	42.4	42.5	42.7	12.72	13.04	13.00	539.33	554.20	555.10
Green Bay	42.0	43.2	43.2	15.73	14.89	15.09	660.66	643.25	651.89
Janesville-Beloit	46.0	42.8	42.0	18.63	19.36	18.63	856.98	828.61	782.46
Kenosha	39.3	39.8	40.3	16.35	16.99	17.10	642.56	676.20	663.13
La Crosse	42.9	40.9	41.2	12.44	12.21	12.01	533.68	499.39	494.81
Madison	41.0	40.3	40.4	13.11	14.24	14.24	537.51	573.87	575.30
Milwaukee-Waukesha	42.1	42.0	42.5	15.39	15.66	15.61	647.92	657.72	663.43
Racine	43.0	41.8	41.9	14.50	14.91	15.14	623.50	623.24	634.37
Sheboygan	43.7	42.5	42.4	14.12	14.88	14.70	617.04	632.40	623.28
Wausau	42.9	43.8	43.9	13.69	14.48	14.50	587.30	634.22	636.55
Wyoming	41.4	39.8	39.8	14.81	15.32	15.20	613.13	609.74	604.96
Puerto Rico	41.3	40.7	40.7	8.65	9.13	9.07	357.25	371.59	369.15
Virgin Islands	42.2	(1)	(1)	18.79	(1)	(1)	792.94	(1)	(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 1998 benchmarks.

**LABOR FORCE DATA
REGIONS AND DIVISIONS
SEASONALLY ADJUSTED**

C-1. Labor force status by census region and division, seasonally adjusted¹

(Numbers in thousands)

Census region and division	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P
NORTHEAST													
Civilian labor force	26,115.2	26,147.6	26,178.3	26,245.8	26,241.0	26,255.0	26,292.8	26,291.6	26,324.1	26,319.7	26,323.9	26,326.2	26,301.7
Employed	24,944.2	24,988.5	25,043.3	25,118.7	25,123.9	25,153.8	25,175.4	25,125.3	25,174.8	25,179.1	25,176.5	25,198.1	25,195.2
Unemployed	1,171.0	1,159.2	1,135.0	1,127.1	1,117.1	1,101.3	1,117.4	1,166.3	1,149.3	1,140.6	1,147.4	1,128.1	1,106.5
Unemployment rate	4.5	4.4	4.3	4.3	4.3	4.2	4.2	4.4	4.4	4.3	4.4	4.3	4.2
New England													
Civilian labor force	7,140.1	7,149.3	7,159.3	7,162.0	7,162.9	7,185.1	7,191.5	7,178.8	7,183.8	7,174.4	7,180.2	7,199.2	7,207.4
Employed	6,905.1	6,919.5	6,930.2	6,942.3	6,948.5	6,967.9	6,954.9	6,944.6	6,957.6	6,959.8	6,968.6	6,970.9	6,982.0
Unemployed	235.0	229.7	229.1	219.8	214.3	217.2	236.5	234.2	226.2	214.6	211.6	228.4	225.4
Unemployment rate	3.3	3.2	3.2	3.1	3.0	3.0	3.3	3.3	3.1	3.0	2.9	3.2	3.1
Middle Atlantic													
Civilian labor force	18,975.1	18,998.4	19,019.0	19,083.8	19,078.1	19,070.0	19,101.3	19,112.7	19,140.3	19,145.3	19,143.8	19,127.0	19,094.3
Employed	18,039.2	18,068.9	18,113.1	18,176.4	18,175.4	18,185.9	18,220.5	18,180.7	18,217.2	18,219.3	18,207.9	18,227.2	18,213.3
Unemployed	935.9	929.4	905.9	907.4	902.7	884.1	880.8	932.1	923.1	926.0	935.9	899.8	881.1
Unemployment rate	4.9	4.9	4.8	4.8	4.7	4.6	4.6	4.9	4.8	4.8	4.9	4.7	4.6
SOUTH													
Civilian labor force	48,312.9	48,458.9	48,631.6	48,639.5	48,606.0	48,714.8	48,775.0	48,723.9	48,750.6	48,820.9	48,928.9	49,016.8	49,019.3
Employed	46,247.0	46,409.3	46,608.6	46,609.5	46,582.0	46,685.5	46,737.5	46,801.4	46,848.7	46,873.4	46,960.1	47,030.0	47,078.5
Unemployed	2,065.9	2,049.6	2,023.0	2,030.0	2,024.1	2,029.3	2,037.5	1,922.5	1,901.9	1,947.6	1,968.7	1,986.8	1,940.8
Unemployment rate	4.3	4.2	4.2	4.2	4.2	4.2	4.2	3.9	3.9	4.0	4.0	4.1	4.0
South Atlantic													
Civilian labor force	24,979.1	25,072.6	25,170.3	25,178.7	25,144.2	25,236.3	25,267.9	25,228.9	25,247.0	25,293.9	25,354.4	25,390.1	25,406.8
Employed	24,006.0	24,111.5	24,223.7	24,215.0	24,180.7	24,273.5	24,303.5	24,326.2	24,346.9	24,353.0	24,413.5	24,451.6	24,463.9
Unemployed	973.1	961.1	946.5	963.7	963.5	962.8	964.5	902.7	900.1	940.9	940.8	938.5	943.0
Unemployment rate	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.7
East South Central													
Civilian labor force	8,160.1	8,181.9	8,207.9	8,195.7	8,220.5	8,210.1	8,212.6	8,197.3	8,220.6	8,217.5	8,228.1	8,231.8	8,214.3
Employed	7,809.1	7,831.2	7,853.8	7,850.5	7,853.3	7,852.2	7,856.2	7,867.8	7,896.5	7,879.4	7,883.7	7,888.7	7,881.7
Unemployed	351.0	350.7	354.1	345.2	367.2	357.9	356.5	329.5	324.1	338.1	344.4	343.1	332.5
Unemployment rate	4.3	4.3	4.3	4.2	4.5	4.4	4.3	4.0	3.9	4.1	4.2	4.2	4.0
West South Central													
Civilian labor force	15,173.7	15,204.5	15,253.4	15,265.0	15,241.3	15,268.4	15,294.4	15,297.7	15,282.9	15,309.6	15,346.3	15,394.9	15,398.2
Employed	14,431.9	14,466.6	14,531.1	14,543.9	14,548.0	14,559.7	14,577.9	14,607.4	14,605.3	14,640.9	14,662.9	14,689.7	14,732.9
Unemployed	741.8	737.8	722.4	721.1	693.3	708.6	716.6	690.3	677.7	668.6	683.5	705.2	665.3
Unemployment rate	4.9	4.9	4.7	4.7	4.5	4.6	4.7	4.5	4.4	4.4	4.5	4.6	4.3

See footnotes at end of table.

**LABOR FORCE DATA
REGIONS AND DIVISIONS
SEASONALLY ADJUSTED**

C-1. Labor force status by census region and division, seasonally adjusted¹ — Continued

(Numbers in thousands)

Census region and division	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P
MIDWEST													
Civilian labor force	33,442.1	33,524.7	33,585.8	33,609.3	33,576.6	33,610.4	33,598.8	33,662.4	33,748.8	33,668.0	33,647.9	33,668.0	33,678.7
Employed	32,229.2	32,342.5	32,426.9	32,443.4	32,456.6	32,457.5	32,392.3	32,423.9	32,534.5	32,473.2	32,475.0	32,534.1	32,542.1
Unemployed	1,212.8	1,182.2	1,159.0	1,165.9	1,119.9	1,152.9	1,206.5	1,238.5	1,214.3	1,194.9	1,172.8	1,133.9	1,136.7
Unemployment rate	3.6	3.5	3.5	3.5	3.3	3.4	3.6	3.7	3.6	3.5	3.5	3.4	3.4
East North Central													
Civilian labor force	23,154.2	23,210.4	23,267.8	23,294.3	23,276.9	23,301.5	23,280.8	23,321.5	23,374.5	23,326.8	23,305.0	23,334.2	23,364.9
Employed	22,253.3	22,323.7	22,385.9	22,401.4	22,433.3	22,432.0	22,378.3	22,394.5	22,478.1	22,438.0	22,431.2	22,464.5	22,497.0
Unemployed	900.9	886.7	881.9	892.9	843.6	869.5	902.5	927.1	896.4	888.9	873.8	869.7	868.0
Unemployment rate	3.9	3.8	3.8	3.8	3.6	3.7	3.9	4.0	3.8	3.8	3.7	3.7	3.7
West North Central													
Civilian labor force	10,287.9	10,314.3	10,318.0	10,315.0	10,299.7	10,308.9	10,318.0	10,340.9	10,374.3	10,341.2	10,342.9	10,333.7	10,313.8
Employed	9,976.0	10,018.8	10,041.0	10,042.0	10,023.3	10,025.5	10,014.0	10,029.4	10,056.4	10,035.2	10,043.8	10,069.6	10,045.1
Unemployed	311.9	295.5	277.1	273.0	276.4	283.4	304.0	311.4	317.9	306.0	299.0	264.2	268.7
Unemployment rate	3.0	2.9	2.7	2.6	2.7	2.7	2.9	3.0	3.1	3.0	2.9	2.6	2.6
WEST													
Civilian labor force	31,038.5	31,055.4	31,134.3	31,155.3	31,250.0	31,272.7	31,268.2	31,316.3	31,385.1	31,348.2	31,329.8	31,400.4	31,439.3
Employed	29,402.6	29,423.7	29,537.4	29,575.6	29,634.9	29,676.5	29,727.5	29,752.5	29,838.3	29,830.8	29,846.5	29,927.1	30,023.5
Unemployed	1,635.9	1,631.7	1,596.8	1,579.8	1,615.1	1,596.2	1,540.7	1,563.7	1,546.8	1,517.4	1,483.4	1,473.3	1,415.8
Unemployment rate	5.3	5.3	5.1	5.1	5.2	5.1	4.9	5.0	4.9	4.8	4.7	4.7	4.5
Mountain													
Civilian labor force	8,837.7	8,862.0	8,903.9	8,911.9	8,931.0	8,963.0	8,972.3	8,960.6	8,982.9	8,985.0	8,980.5	8,987.2	9,002.8
Employed	8,468.0	8,502.0	8,553.9	8,568.8	8,576.9	8,596.2	8,595.2	8,587.0	8,614.8	8,615.1	8,620.9	8,625.2	8,651.3
Unemployed	369.7	360.0	350.0	343.2	354.1	366.9	377.0	373.6	368.1	369.9	359.6	362.0	351.5
Unemployment rate	4.2	4.1	3.9	3.9	4.0	4.1	4.2	4.2	4.1	4.1	4.0	4.0	3.9
Pacific													
Civilian labor force	22,200.8	22,193.4	22,230.4	22,243.4	22,319.0	22,309.7	22,295.9	22,355.6	22,402.2	22,363.2	22,349.4	22,413.2	22,436.4
Employed	20,934.6	20,921.7	20,983.5	21,006.8	21,058.0	21,080.4	21,132.2	21,165.5	21,223.5	21,215.7	21,225.6	21,301.9	21,372.2
Unemployed	1,266.2	1,271.7	1,246.8	1,236.6	1,261.0	1,229.3	1,163.7	1,190.2	1,178.7	1,147.5	1,123.8	1,111.3	1,064.3
Unemployment rate	5.7	5.7	5.6	5.6	5.6	5.5	5.2	5.3	5.3	5.1	5.0	5.0	4.7

^P = preliminary.

¹ These estimates are obtained from summing official State estimates produced and published through the Local Area Unemployment Statistics (LAUS) program.

NOTE: The States (including the District of Columbia) that compose the various census divisions are: New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Middle Atlantic: New Jersey, New York, and Pennsylvania; South Atlantic: Delaware, District of Columbia, Florida, Georgia,

Maryland, North Carolina, South Carolina, Virginia, and West Virginia; East South Central: Alabama, Kentucky, Mississippi, and Tennessee; West South Central: Arkansas, Louisiana, Oklahoma, and Texas; East North Central: Illinois, Indiana, Michigan, Ohio, and Wisconsin; West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota; Mountain: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming; and Pacific: Alaska, California, Hawaii, Oregon, and Washington.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

C-2. Labor force status by State, seasonally adjusted

(Numbers in thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
Alabama													
Civilian labor force	2,154.2	2,158.7	2,162.3	2,161.7	2,176.1	2,173.3	2,174.0	2,164.4	2,170.3	2,171.6	2,172.6	2,164.6	2,167.7
Employed	2,065.9	2,071.5	2,077.0	2,076.4	2,079.8	2,073.2	2,071.9	2,067.8	2,082.6	2,074.9	2,071.6	2,070.1	2,072.6
Unemployed	88.3	87.3	85.3	85.3	96.3	100.1	102.1	96.6	87.6	96.7	101.1	94.5	95.1
Unemployment rate	4.1	4.0	3.9	3.9	4.4	4.6	4.7	4.5	4.0	4.5	4.7	4.4	4.4
Alaska													
Civilian labor force	316.4	315.7	316.6	318.6	318.1	315.8	317.7	317.5	316.7	317.2	316.9	317.0	317.6
Employed	298.9	298.0	297.9	298.2	298.0	297.3	296.8	297.7	297.6	297.9	299.3	298.9	299.0
Unemployed	17.5	17.7	18.7	20.5	20.1	18.5	20.9	19.7	19.1	19.3	17.7	18.1	18.6
Unemployment rate	5.5	5.6	5.9	6.4	6.3	5.9	6.6	6.2	6.0	6.1	5.6	5.7	5.9
Arizona													
Civilian labor force	2,326.1	2,341.6	2,362.1	2,378.2	2,383.3	2,401.0	2,397.2	2,397.0	2,406.1	2,421.9	2,418.8	2,411.5	2,419.5
Employed	2,233.3	2,249.5	2,269.3	2,283.9	2,283.5	2,295.9	2,285.9	2,293.6	2,299.2	2,313.4	2,320.9	2,315.4	2,322.6
Unemployed	92.8	92.2	92.9	94.3	99.8	105.1	111.3	103.5	106.9	108.6	97.9	96.1	97.0
Unemployment rate	4.0	3.9	3.9	4.0	4.2	4.4	4.6	4.3	4.4	4.5	4.0	4.0	4.0
Arkansas													
Civilian labor force	1,246.0	1,255.0	1,255.7	1,252.7	1,248.1	1,248.6	1,251.0	1,258.5	1,258.0	1,256.5	1,252.8	1,253.2	1,255.0
Employed	1,177.6	1,189.6	1,191.2	1,193.5	1,193.3	1,194.2	1,195.8	1,198.4	1,199.4	1,196.5	1,199.2	1,200.0	1,200.7
Unemployed	68.4	65.4	64.5	59.3	54.8	54.3	55.2	60.1	58.5	59.9	53.6	53.2	54.3
Unemployment rate	5.5	5.2	5.1	4.7	4.4	4.4	4.4	4.8	4.7	4.8	4.3	4.2	4.3
California													
Civilian labor force	16,437.1	16,421.3	16,456.9	16,447.4	16,532.8	16,546.1	16,523.7	16,592.5	16,605.3	16,591.5	16,592.4	16,653.7	16,660.3
Employed	15,473.0	15,452.9	15,509.3	15,521.8	15,569.0	15,601.9	15,648.1	15,700.6	15,723.5	15,742.0	15,775.1	15,838.8	15,859.5
Unemployed	964.1	968.4	947.6	925.5	963.8	944.2	875.6	891.9	881.7	849.5	817.3	814.9	800.7
Unemployment rate	5.9	5.9	5.8	5.6	5.8	5.7	5.3	5.4	5.3	5.1	4.9	4.9	4.8
Colorado													
Civilian labor force	2,264.0	2,261.1	2,272.0	2,257.1	2,265.5	2,275.3	2,279.5	2,270.0	2,286.9	2,277.1	2,276.9	2,275.8	2,288.9
Employed	2,182.3	2,183.7	2,201.8	2,197.3	2,204.7	2,207.4	2,212.5	2,199.8	2,217.9	2,212.2	2,212.5	2,208.6	2,223.8
Unemployed	81.7	77.4	70.1	59.8	60.8	68.0	67.0	70.2	69.0	64.8	64.4	67.3	65.1
Unemployment rate	3.6	3.4	3.1	2.7	2.7	3.0	2.9	3.1	3.0	2.8	2.8	3.0	2.8
Connecticut													
Civilian labor force	1,718.0	1,722.0	1,729.5	1,722.8	1,718.6	1,732.6	1,731.2	1,719.2	1,706.5	1,705.8	1,718.0	1,719.4	1,719.1
Employed	1,662.3	1,666.9	1,677.4	1,669.6	1,664.4	1,674.5	1,672.6	1,660.6	1,661.7	1,670.1	1,671.9	1,668.3	1,668.8
Unemployed	55.7	55.1	52.2	53.3	54.2	58.1	58.6	58.5	44.8	35.7	46.1	51.2	50.3
Unemployment rate	3.2	3.2	3.0	3.1	3.2	3.4	3.4	3.4	2.6	2.1	2.7	3.0	2.9
Delaware													
Civilian labor force	397.5	398.8	400.4	397.5	399.2	398.1	397.8	396.8	398.2	396.9	395.8	396.4	397.3
Employed	384.2	386.1	387.9	385.1	386.6	384.9	383.5	382.1	384.9	385.9	384.7	383.7	384.3
Unemployed	13.3	12.7	12.5	12.4	12.6	13.2	14.3	14.7	13.3	11.1	11.1	12.7	12.9
Unemployment rate	3.4	3.2	3.1	3.1	3.2	3.3	3.6	3.7	3.3	2.8	2.8	3.2	3.3
District of Columbia													
Civilian labor force	265.7	264.2	266.0	270.2	268.3	269.1	271.6	273.3	271.5	277.0	274.9	275.3	277.1
Employed	243.9	243.6	245.7	250.1	249.1	250.6	254.0	256.7	255.2	260.2	257.4	259.1	260.7
Unemployed	21.9	20.6	20.3	20.1	19.2	18.5	17.6	16.6	16.3	16.8	17.6	16.3	16.5
Unemployment rate	8.2	7.8	7.6	7.4	7.2	6.9	6.5	6.1	6.0	6.1	6.4	5.9	5.9
Florida													
Civilian labor force	7,346.0	7,386.5	7,424.5	7,433.4	7,414.2	7,455.1	7,462.7	7,470.5	7,468.5	7,481.7	7,495.5	7,513.9	7,522.3
Employed	7,035.2	7,075.5	7,107.9	7,115.4	7,105.6	7,138.0	7,153.2	7,181.3	7,182.4	7,185.6	7,203.0	7,215.9	7,220.3
Unemployed	310.8	310.9	316.6	318.0	308.6	317.1	309.5	289.2	286.1	296.1	292.4	298.0	302.0
Unemployment rate	4.2	4.2	4.3	4.3	4.2	4.3	4.1	3.9	3.8	4.0	3.9	4.0	4.0

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

C-2. Labor force status by State, seasonally adjusted — Continued

(Numbers in thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P
Georgia													
Civilian labor force	4,031.5	4,026.0	4,040.1	4,038.7	4,041.2	4,063.5	4,068.3	4,064.0	4,059.6	4,080.1	4,110.9	4,101.2	4,113.3
Employed	3,871.9	3,869.7	3,881.8	3,873.7	3,870.9	3,903.2	3,916.0	3,917.1	3,910.7	3,921.4	3,947.6	3,954.9	3,962.7
Unemployed	159.7	156.3	158.2	165.0	170.3	160.3	152.3	147.0	148.9	158.7	163.4	146.3	150.6
Unemployment rate	4.0	3.9	3.9	4.1	4.2	3.9	3.7	3.6	3.7	3.9	4.0	3.6	3.7
Hawaii													
Civilian labor force	601.4	602.5	600.4	597.6	598.9	598.0	601.0	597.2	596.7	598.0	602.2	602.3	599.2
Employed	564.6	565.7	563.7	562.0	563.3	565.0	568.2	563.9	564.7	566.4	569.6	570.1	566.9
Unemployed	36.8	36.9	36.7	35.6	35.6	33.0	32.8	33.3	32.0	31.6	32.6	32.2	32.3
Unemployment rate	6.1	6.1	6.1	6.0	5.9	5.5	5.5	5.6	5.4	5.3	5.4	5.3	5.4
Idaho													
Civilian labor force	663.5	665.8	662.2	662.0	662.5	659.3	658.2	656.3	659.9	658.7	659.2	661.3	657.5
Employed	631.0	632.9	632.2	631.4	631.3	628.2	626.2	621.4	626.6	626.6	627.2	627.8	627.0
Unemployed	32.4	32.9	30.0	30.6	31.2	31.1	32.0	34.9	33.3	32.1	32.0	33.6	30.5
Unemployment rate	4.9	4.9	4.5	4.6	4.7	4.7	4.9	5.3	5.0	4.9	4.9	5.1	4.6
Illinois													
Civilian labor force	6,246.4	6,248.0	6,283.6	6,284.4	6,296.4	6,312.0	6,319.8	6,347.6	6,388.7	6,359.1	6,374.3	6,359.8	6,378.4
Employed	5,971.3	5,983.3	6,030.6	6,031.2	6,058.1	6,065.1	6,043.0	6,057.5	6,095.3	6,061.1	6,094.3	6,088.9	6,110.5
Unemployed	275.1	264.7	253.0	253.2	238.3	246.9	276.8	290.2	293.5	298.1	280.0	270.9	267.9
Unemployment rate	4.4	4.2	4.0	4.0	3.8	3.9	4.4	4.6	4.6	4.7	4.4	4.3	4.2
Indiana													
Civilian labor force	3,116.5	3,127.3	3,124.8	3,138.4	3,130.7	3,109.9	3,101.9	3,103.1	3,081.1	3,095.4	3,073.7	3,097.3	3,100.9
Employed	3,022.1	3,034.1	3,028.7	3,048.4	3,048.8	3,031.5	3,009.6	3,007.4	3,008.0	3,013.0	2,983.8	3,013.9	3,009.7
Unemployed	94.4	93.2	96.1	90.0	81.8	78.5	92.3	95.7	73.1	82.4	89.8	83.4	91.2
Unemployment rate	3.0	3.0	3.1	2.9	2.6	2.5	3.0	3.1	2.4	2.7	2.9	2.7	2.9
Iowa													
Civilian labor force	1,578.5	1,580.8	1,589.6	1,585.2	1,579.0	1,588.4	1,584.0	1,592.1	1,597.3	1,597.0	1,583.7	1,583.6	1,573.2
Employed	1,534.5	1,538.9	1,543.4	1,543.4	1,536.8	1,546.0	1,542.4	1,550.1	1,554.6	1,553.2	1,545.9	1,548.2	1,539.7
Unemployed	42.1	41.9	46.2	41.9	42.2	42.4	41.6	42.0	42.8	43.8	37.8	35.4	33.5
Unemployment rate	2.7	2.7	2.9	2.6	2.7	2.7	2.6	2.6	2.7	2.7	2.4	2.2	2.1
Kansas													
Civilian labor force	1,434.2	1,436.4	1,444.8	1,446.3	1,446.8	1,446.1	1,447.6	1,447.5	1,449.7	1,450.8	1,450.1	1,452.6	1,449.7
Employed	1,380.4	1,384.6	1,395.4	1,398.5	1,396.6	1,397.4	1,398.3	1,400.1	1,401.1	1,401.4	1,401.3	1,405.8	1,401.5
Unemployed	53.8	51.8	49.4	47.9	50.1	48.7	49.2	47.3	48.6	49.5	48.8	46.9	48.2
Unemployment rate	3.8	3.6	3.4	3.3	3.5	3.4	3.4	3.3	3.4	3.4	3.4	3.2	3.3
Kentucky													
Civilian labor force	1,932.6	1,936.1	1,941.0	1,942.5	1,944.9	1,945.6	1,952.5	1,958.1	1,955.0	1,956.2	1,964.6	1,963.8	1,951.2
Employed	1,849.9	1,855.9	1,859.3	1,860.1	1,860.4	1,862.9	1,866.5	1,870.7	1,874.8	1,871.5	1,880.2	1,884.1	1,875.6
Unemployed	82.8	80.2	81.7	82.4	84.5	82.7	86.0	87.4	80.2	84.7	84.3	79.8	75.6
Unemployment rate	4.3	4.1	4.2	4.2	4.3	4.3	4.4	4.5	4.1	4.3	4.3	4.1	3.9
Louisiana													
Civilian labor force	2,061.8	2,061.3	2,068.3	2,065.9	2,051.7	2,056.6	2,033.3	2,042.2	2,054.5	2,068.3	2,081.6	2,087.8	2,084.8
Employed	1,951.6	1,952.4	1,960.5	1,950.4	1,947.0	1,951.8	1,943.6	1,955.9	1,957.4	1,969.3	1,972.6	1,971.7	1,983.1
Unemployed	110.3	108.9	107.8	115.5	104.6	104.8	89.7	86.3	97.1	99.0	108.9	116.1	101.7
Unemployment rate	5.3	5.3	5.2	5.6	5.1	5.1	4.4	4.2	4.7	4.8	5.2	5.6	4.9
Maine													
Civilian labor force	662.2	664.7	660.5	663.8	662.8	663.0	668.1	668.5	670.0	669.5	676.3	679.8	682.6
Employed	635.5	639.5	637.7	641.8	640.2	639.4	639.4	639.1	642.2	641.5	650.1	653.5	659.0
Unemployed	26.7	25.2	22.8	22.0	22.6	23.6	28.7	29.4	27.8	28.0	26.2	26.3	23.6
Unemployment rate	4.0	3.8	3.5	3.3	3.4	3.6	4.3	4.4	4.2	4.2	3.9	3.9	3.5

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

C-2. Labor force status by State, seasonally adjusted — Continued

(Numbers in thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
Maryland													
Civilian labor force	2,788.6	2,806.7	2,805.9	2,813.2	2,808.7	2,812.9	2,811.8	2,802.3	2,815.3	2,813.4	2,810.4	2,824.0	2,814.0
Employed	2,676.1	2,696.7	2,705.0	2,708.9	2,704.8	2,704.3	2,704.5	2,700.2	2,706.4	2,710.1	2,716.6	2,726.3	2,724.6
Unemployed	112.5	109.9	100.9	106.3	103.9	108.6	107.3	102.1	108.9	103.3	93.7	97.7	89.4
Unemployment rate	4.0	3.9	3.6	3.8	3.7	3.9	3.8	3.6	3.9	3.7	3.3	3.5	3.2
Massachusetts													
Civilian labor force	3,264.4	3,259.5	3,264.6	3,265.2	3,264.7	3,272.8	3,278.6	3,277.1	3,286.7	3,280.5	3,274.3	3,288.4	3,286.6
Employed	3,163.1	3,159.2	3,161.7	3,170.8	3,172.8	3,178.3	3,174.6	3,178.1	3,181.1	3,177.3	3,178.9	3,182.8	3,181.1
Unemployed	101.3	100.4	102.9	94.5	91.8	94.5	104.0	99.0	105.5	103.2	95.4	105.6	105.4
Unemployment rate	3.1	3.1	3.2	2.9	2.8	2.9	3.2	3.0	3.2	3.1	2.9	3.2	3.2
Michigan													
Civilian labor force	5,057.3	5,057.8	5,059.6	5,066.2	5,071.7	5,076.6	5,070.5	5,085.0	5,092.0	5,073.3	5,077.3	5,096.3	5,117.8
Employed	4,867.2	4,864.5	4,869.4	4,862.3	4,870.9	4,875.6	4,874.0	4,890.5	4,916.7	4,908.4	4,903.8	4,906.4	4,926.1
Unemployed	190.2	193.2	190.2	203.9	200.8	201.0	196.5	194.5	175.3	164.9	173.5	190.0	191.8
Unemployment rate	3.8	3.8	3.8	4.0	4.0	4.0	3.9	3.8	3.4	3.2	3.4	3.7	3.7
Minnesota													
Civilian labor force	2,712.5	2,715.6	2,716.3	2,711.6	2,705.8	2,704.1	2,718.5	2,722.2	2,740.6	2,737.9	2,738.0	2,732.9	2,731.3
Employed	2,644.1	2,650.7	2,650.7	2,647.8	2,645.7	2,647.4	2,649.4	2,651.3	2,659.5	2,665.2	2,668.5	2,671.8	2,664.6
Unemployed	68.3	64.9	65.6	63.9	60.1	56.6	69.0	70.9	81.0	72.7	69.4	61.1	66.8
Unemployment rate	2.5	2.4	2.4	2.4	2.2	2.1	2.5	2.6	3.0	2.7	2.5	2.2	2.4
Mississippi													
Civilian labor force	1,281.1	1,287.4	1,290.9	1,276.5	1,289.1	1,276.0	1,273.2	1,273.6	1,281.7	1,275.3	1,284.6	1,287.5	1,283.7
Employed	1,214.7	1,219.9	1,223.3	1,221.8	1,223.1	1,216.9	1,212.2	1,215.9	1,221.4	1,220.3	1,222.4	1,220.5	1,225.4
Unemployed	66.4	67.5	67.6	54.7	66.0	59.0	61.0	57.7	60.3	55.1	62.2	67.0	58.3
Unemployment rate	5.2	5.2	5.2	4.3	5.1	4.6	4.8	4.5	4.7	4.3	4.8	5.2	4.5
Missouri													
Civilian labor force	2,886.6	2,900.1	2,885.6	2,892.4	2,891.8	2,896.6	2,895.8	2,909.2	2,911.8	2,887.2	2,899.0	2,892.3	2,884.9
Employed	2,784.5	2,806.1	2,811.5	2,815.0	2,809.1	2,802.7	2,795.3	2,799.4	2,808.7	2,791.0	2,799.1	2,815.5	2,808.6
Unemployed	102.0	94.1	74.1	77.4	82.7	93.8	100.5	109.8	103.1	96.1	99.8	76.9	76.4
Unemployment rate	3.5	3.2	2.6	2.7	2.9	3.2	3.5	3.8	3.5	3.3	3.4	2.7	2.6
Montana													
Civilian labor force	472.8	472.8	476.2	475.3	472.9	474.8	476.0	472.5	475.3	474.1	473.8	476.6	478.0
Employed	446.2	447.1	451.4	449.5	447.2	449.0	451.7	449.3	452.8	449.4	449.2	453.2	455.1
Unemployed	26.6	25.7	24.8	25.7	25.7	25.8	24.3	23.2	22.6	24.7	24.6	23.5	22.9
Unemployment rate	5.6	5.4	5.2	5.4	5.4	5.4	5.1	4.9	4.7	5.2	5.2	4.9	4.8
Nebraska													
Civilian labor force	932.6	936.9	935.2	932.4	930.8	931.1	929.8	929.6	933.4	930.1	932.6	930.0	931.8
Employed	907.8	913.4	912.9	910.3	909.5	908.0	905.6	906.3	911.0	906.4	909.3	906.7	907.8
Unemployed	24.8	23.5	22.4	22.2	21.3	23.1	24.3	23.3	22.4	23.7	23.4	23.3	24.0
Unemployment rate	2.7	2.5	2.4	2.4	2.3	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.6
Nevada													
Civilian labor force	932.3	933.5	937.9	940.8	942.0	949.4	956.3	957.3	955.5	959.3	956.8	962.8	961.4
Employed	899.1	903.0	906.5	908.3	906.3	910.2	914.6	917.1	918.9	919.1	917.1	920.4	918.4
Unemployed	33.2	30.5	31.4	32.4	35.8	39.2	41.7	40.2	36.6	40.3	39.8	42.4	42.9
Unemployment rate	3.6	3.3	3.3	3.4	3.8	4.1	4.4	4.2	3.8	4.2	4.2	4.4	4.5
New Hampshire													
Civilian labor force	661.9	666.5	669.6	673.7	674.3	672.8	671.6	671.3	671.3	669.6	667.3	671.3	673.8
Employed	642.9	648.0	651.2	653.8	654.3	656.5	654.7	654.1	654.7	654.0	653.1	654.6	656.0
Unemployed	19.0	18.5	18.3	19.9	20.0	16.4	16.9	17.2	16.6	15.7	14.2	16.8	17.7
Unemployment rate	2.9	2.8	2.7	3.0	3.0	2.4	2.5	2.6	2.5	2.3	2.1	2.5	2.6

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

C-2. Labor force status by State, seasonally adjusted — Continued

(Numbers in thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P
New Jersey													
Civilian labor force	4,173.2	4,193.7	4,216.3	4,219.1	4,217.2	4,232.8	4,244.8	4,239.2	4,250.9	4,255.2	4,234.2	4,237.4	4,243.5
Employed	3,987.1	4,009.1	4,031.9	4,047.3	4,027.7	4,042.6	4,046.3	4,031.8	4,044.9	4,053.7	4,039.0	4,047.4	4,059.9
Unemployed	186.1	184.6	184.5	171.9	189.5	190.2	198.5	207.4	206.0	201.5	195.1	190.0	183.5
Unemployment rate	4.5	4.4	4.4	4.1	4.5	4.5	4.7	4.9	4.8	4.7	4.6	4.5	4.3
New Mexico													
Civilian labor force	838.2	839.4	838.6	839.7	837.9	837.0	835.2	838.4	832.1	831.0	831.8	832.2	832.5
Employed	784.3	785.4	786.6	786.4	785.9	784.5	783.8	786.6	782.1	780.3	781.1	782.4	782.9
Unemployed	53.9	53.9	52.0	53.3	52.1	52.5	51.4	51.8	50.0	50.7	50.7	49.8	49.6
Unemployment rate	6.4	6.4	6.2	6.3	6.2	6.3	6.2	6.2	6.0	6.1	6.1	6.0	6.0
New York													
Civilian labor force	8,873.5	8,874.4	8,857.0	8,878.1	8,860.8	8,848.9	8,865.1	8,884.5	8,910.2	8,903.6	8,937.0	8,929.9	8,899.6
Employed	8,389.3	8,391.8	8,394.7	8,403.6	8,413.5	8,404.3	8,411.2	8,419.5	8,448.4	8,447.7	8,462.6	8,468.8	8,456.1
Unemployed	484.2	482.6	462.3	474.6	447.2	444.6	453.9	465.0	461.8	455.9	474.4	461.0	443.5
Unemployment rate	5.5	5.4	5.2	5.3	5.0	5.0	5.1	5.2	5.2	5.1	5.3	5.2	5.0
North Carolina													
Civilian labor force	3,820.0	3,833.8	3,858.3	3,846.4	3,850.0	3,856.7	3,853.3	3,826.0	3,845.9	3,856.1	3,862.5	3,875.0	3,877.7
Employed	3,696.1	3,713.9	3,740.3	3,727.4	3,728.3	3,746.9	3,734.7	3,724.1	3,732.0	3,729.6	3,741.8	3,748.8	3,752.7
Unemployed	124.0	119.9	118.0	119.0	121.7	109.9	118.6	101.9	113.9	126.5	120.8	126.2	125.0
Unemployment rate	3.2	3.1	3.1	3.1	3.2	2.8	3.1	2.7	3.0	3.3	3.1	3.3	3.2
North Dakota													
Civilian labor force	345.4	345.1	346.5	345.9	344.9	343.3	343.4	341.6	341.1	338.5	340.4	341.7	341.7
Employed	335.5	336.0	337.3	336.3	334.8	334.2	334.0	333.0	331.3	329.3	330.8	332.0	332.0
Unemployed	9.9	9.1	9.2	9.7	10.0	9.0	9.4	8.6	9.8	9.3	9.6	9.7	9.7
Unemployment rate	2.9	2.6	2.6	2.8	2.9	2.6	2.7	2.5	2.9	2.7	2.8	2.8	2.8
Ohio													
Civilian labor force	5,754.6	5,791.1	5,802.5	5,820.1	5,802.1	5,834.4	5,814.9	5,832.4	5,848.6	5,836.8	5,831.2	5,816.7	5,803.7
Employed	5,520.8	5,561.7	5,565.8	5,574.6	5,575.5	5,583.4	5,578.3	5,570.3	5,582.2	5,580.7	5,576.4	5,573.6	5,573.0
Unemployed	233.8	229.4	236.7	245.5	226.7	251.1	236.6	262.1	266.4	256.2	254.8	243.1	230.7
Unemployment rate	4.1	4.0	4.1	4.2	3.9	4.3	4.1	4.5	4.6	4.4	4.4	4.2	4.0
Oklahoma													
Civilian labor force	1,642.6	1,647.9	1,644.9	1,646.9	1,648.0	1,645.7	1,646.7	1,662.2	1,661.6	1,658.6	1,663.1	1,665.9	1,673.0
Employed	1,569.1	1,574.7	1,580.5	1,579.2	1,577.5	1,577.0	1,587.7	1,603.1	1,604.1	1,602.3	1,609.4	1,614.1	1,619.4
Unemployed	73.5	73.2	64.3	67.8	70.5	68.7	59.0	59.1	57.5	56.3	53.6	51.8	53.6
Unemployment rate	4.5	4.4	3.9	4.1	4.3	4.2	3.6	3.6	3.5	3.4	3.2	3.1	3.2
Oregon													
Civilian labor force	1,778.0	1,775.7	1,775.3	1,790.4	1,786.7	1,766.5	1,764.5	1,753.7	1,763.0	1,744.9	1,729.2	1,744.0	1,782.3
Employed	1,679.4	1,677.5	1,676.0	1,687.7	1,686.9	1,672.8	1,674.3	1,657.5	1,665.8	1,645.0	1,629.2	1,647.6	1,691.3
Unemployed	98.7	98.2	99.3	102.7	99.8	93.7	90.2	96.2	97.2	99.9	100.0	96.4	91.0
Unemployment rate	5.5	5.5	5.6	5.7	5.6	5.3	5.1	5.5	5.5	5.7	5.8	5.5	5.1
Pennsylvania													
Civilian labor force	5,928.4	5,930.2	5,945.7	5,986.5	6,000.2	5,988.3	5,991.4	5,989.0	5,979.2	5,986.4	5,972.6	5,959.7	5,951.2
Employed	5,662.8	5,668.0	5,686.5	5,725.6	5,734.2	5,739.0	5,763.0	5,729.4	5,723.9	5,717.9	5,706.3	5,710.9	5,697.3
Unemployed	265.7	262.2	259.2	260.9	266.0	249.3	228.4	259.6	255.2	268.6	266.3	248.8	254.0
Unemployment rate	4.5	4.4	4.4	4.4	4.4	4.2	3.8	4.3	4.3	4.5	4.5	4.2	4.3
Rhode Island													
Civilian labor force	499.2	500.7	499.0	497.7	502.8	505.3	503.2	503.9	509.4	509.1	505.4	502.5	507.9
Employed	477.1	480.1	476.6	478.3	487.7	489.5	484.4	484.0	488.6	487.0	485.9	483.9	488.4
Unemployed	22.1	20.6	22.4	19.4	15.1	15.8	18.8	19.9	20.8	22.2	19.6	18.6	19.5
Unemployment rate	4.4	4.1	4.5	3.9	3.0	3.1	3.7	4.0	4.1	4.4	3.9	3.7	3.8

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

C-2. Labor force status by State, seasonally adjusted — Continued

(Numbers in thousands)

State	1998		1999										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
South Carolina													
Civilian labor force	1,967.2	1,966.9	1,973.4	1,981.7	1,969.0	1,985.5	2,000.3	1,996.3	1,980.2	1,982.6	1,988.4	1,982.1	1,981.8
Employed	1,889.4	1,890.2	1,900.3	1,899.0	1,895.2	1,903.0	1,916.8	1,918.3	1,913.6	1,908.7	1,904.7	1,895.3	1,888.7
Unemployed	77.8	76.7	73.1	82.7	73.8	82.5	83.5	78.0	66.6	73.8	83.7	86.8	93.1
Unemployment rate	4.0	3.9	3.7	4.2	3.7	4.2	4.2	3.9	3.4	3.7	4.2	4.4	4.7
South Dakota													
Civilian labor force	400.1	399.5	400.0	401.1	400.6	399.4	398.9	398.7	400.4	399.8	399.1	400.6	401.0
Employed	389.1	389.3	389.7	390.9	390.8	389.8	388.9	389.2	390.1	388.8	388.8	389.7	390.8
Unemployed	11.1	10.2	10.3	10.1	9.9	9.7	10.0	9.5	10.3	10.9	10.3	10.9	10.2
Unemployment rate	2.8	2.6	2.6	2.5	2.5	2.4	2.5	2.4	2.6	2.7	2.6	2.7	2.5
Tennessee													
Civilian labor force	2,792.2	2,799.6	2,813.6	2,815.1	2,810.4	2,815.2	2,812.9	2,801.1	2,813.7	2,814.3	2,806.4	2,815.8	2,811.7
Employed	2,678.6	2,683.9	2,694.2	2,692.2	2,690.0	2,699.2	2,705.6	2,713.3	2,717.7	2,712.7	2,709.5	2,714.1	2,708.1
Unemployed	113.6	115.7	119.4	122.8	120.4	116.0	107.3	87.9	96.0	101.6	96.8	101.8	103.6
Unemployment rate	4.1	4.1	4.2	4.4	4.3	4.1	3.8	3.1	3.4	3.6	3.5	3.6	3.7
Texas													
Civilian labor force	10,223.3	10,240.3	10,284.5	10,299.4	10,293.6	10,317.6	10,363.4	10,334.9	10,308.8	10,326.2	10,348.9	10,388.0	10,385.5
Employed	9,733.6	9,749.9	9,798.8	9,820.8	9,830.2	9,836.7	9,850.8	9,850.0	9,844.3	9,872.8	9,881.6	9,903.9	9,929.7
Unemployed	489.7	490.3	485.6	478.6	463.4	480.8	512.7	484.8	464.5	453.4	467.3	484.1	455.8
Unemployment rate	4.8	4.8	4.7	4.6	4.5	4.7	4.9	4.7	4.5	4.4	4.5	4.7	4.4
Utah													
Civilian labor force	1,081.0	1,088.1	1,094.5	1,098.5	1,106.3	1,105.3	1,107.6	1,107.1	1,105.4	1,101.7	1,101.0	1,104.8	1,102.3
Employed	1,044.2	1,052.5	1,057.7	1,063.4	1,068.9	1,071.8	1,071.2	1,069.9	1,067.5	1,064.6	1,062.9	1,067.3	1,070.1
Unemployed	36.8	35.6	36.7	35.0	37.4	33.5	36.5	37.1	37.9	37.1	38.1	37.5	32.1
Unemployment rate	3.4	3.3	3.4	3.2	3.4	3.0	3.3	3.4	3.4	3.4	3.5	3.4	2.9
Vermont													
Civilian labor force	334.3	335.8	336.1	338.7	339.7	338.5	338.7	338.8	340.0	339.9	338.8	337.7	337.4
Employed	324.0	325.8	325.6	328.0	329.1	329.7	329.2	328.6	329.2	329.9	328.8	327.8	328.5
Unemployed	10.3	10.0	10.5	10.7	10.6	8.8	9.5	10.2	10.7	10.0	10.0	9.9	8.9
Unemployment rate	3.1	3.0	3.1	3.2	3.1	2.6	2.8	3.0	3.2	2.9	3.0	2.9	2.6
Virginia													
Civilian labor force	3,560.3	3,585.9	3,589.3	3,587.5	3,581.1	3,584.0	3,593.8	3,587.2	3,593.9	3,592.4	3,601.2	3,604.9	3,606.3
Employed	3,456.7	3,480.2	3,494.6	3,493.6	3,481.8	3,486.1	3,486.8	3,486.7	3,497.6	3,489.8	3,497.6	3,504.9	3,506.7
Unemployed	103.6	105.6	94.7	93.9	99.3	97.8	107.0	100.6	96.3	102.6	103.6	100.0	99.5
Unemployment rate	2.9	2.9	2.6	2.6	2.8	2.7	3.0	2.8	2.7	2.9	2.9	2.8	2.8
Washington													
Civilian labor force	3,068.0	3,078.2	3,081.1	3,089.4	3,082.6	3,083.3	3,089.0	3,094.9	3,120.6	3,111.6	3,108.6	3,096.3	3,077.1
Employed	2,918.8	2,927.6	2,936.6	2,937.1	2,940.8	2,943.3	2,944.8	2,945.8	2,972.0	2,964.4	2,952.4	2,946.6	2,955.5
Unemployed	149.2	150.6	144.5	152.3	141.7	140.0	144.2	149.1	148.6	147.1	156.2	149.7	121.6
Unemployment rate	4.9	4.9	4.7	4.9	4.6	4.5	4.7	4.8	4.8	4.7	5.0	4.8	4.0
West Virginia													
Civilian labor force	802.1	803.8	812.4	810.2	812.5	811.3	808.3	812.4	813.9	813.7	814.6	817.3	817.1
Employed	752.5	755.5	760.1	763.8	758.3	756.5	753.9	759.7	764.1	761.7	760.1	762.7	763.3
Unemployed	49.6	48.4	52.3	46.4	54.3	54.9	54.4	52.7	49.8	52.0	54.5	54.6	53.8
Unemployment rate	6.2	6.0	6.4	5.7	6.7	6.8	6.7	6.5	6.1	6.4	6.7	6.7	6.6
Wisconsin													
Civilian labor force	2,979.3	2,986.2	2,997.3	2,985.2	2,976.0	2,968.6	2,973.8	2,953.4	2,964.1	2,962.2	2,948.5	2,964.0	2,964.1
Employed	2,872.0	2,879.9	2,891.3	2,884.8	2,880.1	2,876.5	2,873.5	2,868.8	2,875.9	2,874.8	2,872.8	2,881.7	2,877.7
Unemployed	107.4	106.3	105.9	100.4	95.9	92.1	100.3	84.5	88.2	87.4	75.7	82.3	86.4
Unemployment rate	3.6	3.6	3.5	3.4	3.2	3.1	3.4	2.9	3.0	3.0	2.6	2.8	2.9
Wyoming													
Civilian labor force	259.9	259.6	260.5	260.4	260.5	260.8	262.2	262.1	261.6	261.2	262.2	262.1	262.9
Employed	247.6	247.9	248.4	248.4	249.1	249.2	249.3	249.3	249.8	249.6	250.1	250.1	251.4
Unemployed	12.3	11.7	12.1	12.0	11.3	11.6	13.0	12.8	11.8	11.6	12.1	12.0	11.4
Unemployment rate	4.7	4.5	4.6	4.6	4.4	4.5	4.9	4.9	4.5	4.5	4.6	4.6	4.4

P = preliminary.

revised when new benchmark and population information becomes available.

NOTE: Data refer to place of residence. All estimates are provisional and will be

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

C-3. Labor force status by State and metropolitan area

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	October		November		October		November		October		November	
	1998	1999	1998	1999P	1998	1999	1998	1999P	1998	1999	1998	1999P
Alabama	2,161.2	2,172.2	2,170.0	2,181.6	94.9	100.2	85.0	90.8	4.4	4.6	3.9	4.2
Anniston	54.8	55.2	55.3	55.8	2.7	3.0	2.5	2.8	4.8	5.5	4.5	4.9
Birmingham	474.7	477.7	479.4	481.4	14.5	14.7	12.6	13.5	3.1	3.1	2.6	2.8
Decatur	72.8	73.9	72.8	74.7	3.2	3.5	2.7	3.2	4.3	4.7	3.8	4.3
Dothan	65.9	67.2	66.2	67.7	2.3	2.7	2.2	2.4	3.5	4.0	3.3	3.5
Florence	68.9	69.2	69.4	69.5	4.4	4.3	4.3	3.7	6.4	6.2	6.2	5.3
Gadsden	50.8	50.1	50.8	50.1	3.5	3.2	2.8	2.6	6.8	6.4	5.5	5.1
Huntsville	171.8	172.9	172.8	173.4	5.2	5.4	4.5	4.7	3.0	3.1	2.6	2.7
Mobile	272.7	279.5	274.4	279.9	11.3	12.6	9.7	11.7	4.1	4.5	3.5	4.2
Montgomery	162.6	169.2	165.0	170.5	5.3	6.7	4.6	5.9	3.3	3.9	2.8	3.5
Tuscaloosa	84.4	86.0	85.1	86.6	2.2	2.4	2.0	2.1	2.7	2.8	2.4	2.4
Alaska	317.2	316.7	313.7	314.5	16.9	17.2	17.4	18.2	5.3	5.4	5.5	5.8
Anchorage	142.9	142.7	143.8	144.3	5.4	5.8	5.4	5.9	3.8	4.1	3.7	4.1
Arizona	2,325.1	2,425.5	2,340.0	2,434.3	95.4	98.5	87.5	90.9	4.1	4.1	3.7	3.7
Flagstaff	60.9	63.6	60.6	65.4	3.5	3.0	3.8	3.1	5.7	4.8	6.2	4.7
Phoenix-Mesa	1,544.8	1,601.9	1,560.1	1,607.8	44.5	46.3	41.6	43.0	2.9	2.9	2.7	2.7
Tucson	380.8	405.8	383.6	409.0	9.8	13.4	9.2	12.8	2.6	3.3	2.4	3.1
Yuma	66.8	70.2	65.1	69.4	18.1	18.5	14.9	16.0	27.0	26.3	22.9	23.1
Arkansas	1,231.9	1,253.0	1,241.8	1,255.4	59.8	46.3	60.4	48.6	4.9	3.7	4.9	3.9
Fayetteville-Springdale-Rogers	142.0	149.7	143.3	150.1	4.0	3.1	3.9	3.1	2.8	2.1	2.7	2.1
Fort Smith	96.8	97.4	97.3	97.5	4.6	3.2	4.6	3.3	4.7	3.2	4.7	3.4
Jonesboro	42.1	43.1	42.5	43.2	1.5	1.2	1.6	1.4	3.5	2.9	3.7	3.1
Little Rock-North Little Rock	299.1	305.4	302.2	306.0	10.6	8.7	10.2	8.8	3.5	2.9	3.4	2.9
Pine Bluff	36.5	36.9	36.6	37.1	2.6	2.3	2.7	2.3	7.2	6.3	7.4	6.2
California	16,457.1	16,708.9	16,446.2	16,666.9	926.4	778.3	933.2	771.6	5.6	4.7	5.7	4.6
Bakersfield	275.4	280.3	280.7	283.0	29.7	25.6	35.6	29.6	10.8	9.1	12.7	10.4
Chico-Paradise	88.0	88.0	87.6	86.8	5.5	4.3	5.9	4.6	6.2	4.8	6.7	5.3
Fresno	420.6	424.6	415.3	420.8	54.9	47.3	59.4	53.2	13.1	11.1	14.3	12.6
Los Angeles-Long Beach	4,682.5	4,701.8	4,692.3	4,703.6	305.2	268.6	303.5	255.8	6.5	5.7	6.5	5.4
Merced	84.9	85.1	85.2	84.1	9.9	7.5	11.9	10.2	11.6	8.8	14.0	12.2
Modesto	202.3	200.8	199.7	199.7	22.4	17.3	22.6	18.5	11.1	8.6	11.3	9.3
Oakland	1,202.6	1,237.7	1,204.9	1,238.5	45.4	35.9	42.3	32.7	3.8	2.9	3.5	2.6
Orange County	1,450.6	1,500.7	1,449.2	1,492.2	42.1	38.3	39.2	34.5	2.9	2.6	2.7	2.3
Redding	72.6	72.8	71.6	71.6	5.2	3.7	5.5	4.1	7.1	5.0	7.7	5.7
Riverside-San Bernardino	1,397.4	1,441.3	1,401.7	1,444.2	86.6	72.4	78.9	65.4	6.2	5.0	5.6	4.5
Sacramento	764.0	787.0	763.4	786.3	34.1	29.1	31.8	27.5	4.5	3.7	4.2	3.5
Salinas	183.3	189.1	184.9	189.5	12.1	9.9	17.6	14.3	6.6	5.2	9.5	7.5
San Diego	1,335.2	1,355.9	1,333.7	1,353.6	47.4	39.9	44.2	36.2	3.6	2.9	3.3	2.7
San Francisco	956.1	964.0	954.7	963.6	27.4	21.0	24.8	18.8	2.9	2.2	2.6	2.0
San Jose	967.7	973.0	963.9	968.3	35.0	25.2	32.9	22.2	3.6	2.6	3.4	2.3
San Luis Obispo-Atascadero-Paso Robles	109.3	111.7	109.5	110.7	4.3	2.9	4.1	3.2	3.9	2.6	3.8	2.9
Santa Barbara-Santa Maria-Lompoc	196.1	199.0	196.4	198.9	7.6	6.4	8.5	6.9	3.9	3.2	4.3	3.5
Santa Cruz-Watsonville	142.3	142.1	140.6	139.7	7.6	5.1	9.4	6.5	5.3	3.6	6.7	4.7
Santa Rosa	251.9	259.2	249.5	256.3	6.9	5.8	6.7	5.7	2.7	2.2	2.7	2.2
Stockton-Lodi	252.2	253.0	248.6	248.3	22.4	17.2	24.9	19.8	8.9	6.8	10.0	8.0
Vallejo-Fairfield-Napa	246.4	252.3	245.1	250.6	11.0	9.1	11.2	9.3	4.5	3.6	4.6	3.7
Ventura	391.3	399.7	391.5	398.5	22.5	18.0	23.5	19.0	5.8	4.5	6.0	4.8
Visalia-Tulare-Porterville	164.2	168.7	164.6	166.6	23.9	23.1	27.3	24.0	14.6	13.7	16.6	14.4
Yolo	88.1	89.5	87.9	89.0	3.7	2.8	4.3	3.6	4.2	3.1	4.9	4.0
Yuba City	54.6	56.3	54.8	56.4	6.1	4.8	7.6	6.6	11.1	8.6	13.8	11.6
Colorado	2,287.6	2,298.1	2,275.1	2,299.2	81.9	64.2	76.0	60.8	3.6	2.8	3.3	2.6
Boulder-Longmont	177.9	180.6	176.6	180.1	5.9	4.8	5.2	4.4	3.3	2.7	2.9	2.4
Colorado Springs	260.8	262.2	259.1	261.8	11.0	8.5	10.1	7.9	4.2	3.3	3.9	3.0
Denver	1,150.1	1,159.1	1,143.8	1,157.9	34.0	27.7	30.8	25.8	3.0	2.4	2.7	2.2
Fort Collins-Loveland	145.7	147.3	144.4	146.7	5.3	4.2	5.3	4.0	3.6	2.9	3.7	2.7
Grand Junction	59.8	59.6	59.2	59.4	2.6	1.9	2.4	1.8	4.3	3.2	4.1	3.1
Greeley	86.8	85.4	85.9	85.4	3.8	2.9	3.5	2.7	4.4	3.4	4.0	3.2
Pueblo	63.0	61.8	62.3	61.6	4.2	2.8	3.8	2.7	6.6	4.6	6.1	4.4
Connecticut	1,716.0	1,721.9	1,715.0	1,715.7	50.6	47.0	50.1	45.2	2.9	2.7	2.9	2.6
Bridgeport	219.3	217.8	219.5	218.0	8.1	7.4	7.9	7.0	3.7	3.4	3.6	3.2
Danbury	110.4	110.7	110.5	110.9	2.2	2.0	2.2	1.9	2.0	1.8	2.0	1.7
Hartford	583.5	585.4	582.6	582.2	17.7	16.6	17.1	16.0	3.0	2.8	2.9	2.8
New Haven-Meriden	273.5	275.6	274.2	275.0	7.9	7.6	8.1	7.3	2.9	2.7	3.0	2.6
New London-Norwich	152.3	154.8	152.2	154.3	5.2	4.5	4.9	4.4	3.4	2.9	3.2	2.8
Stamford-Norwalk	194.2	194.9	193.7	193.2	4.0	3.7	4.1	3.6	2.1	1.9	2.1	1.9
Waterbury	115.4	115.6	115.4	115.3	3.8	3.6	3.9	3.4	3.3	3.1	3.4	3.0
Delaware	393.9	393.8	399.9	399.9	13.0	11.7	12.1	11.7	3.3	3.0	3.0	2.9
Dover	69.8	69.1	70.3	70.3	3.2	2.2	2.1	2.1	4.6	3.2	3.0	3.0
Wilmington-Newark	293.5	295.0	298.5	299.5	9.4	8.8	8.8	8.3	3.2	3.0	2.9	2.8

See footnotes at end of table.

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

C-3. Labor force status by State and metropolitan area—Continued

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	October		November		October		November		October		November	
	1998	1999	1998	1999P	1998	1999	1998	1999P	1998	1999	1998	1999P
District of Columbia	265.4	273.6	263.8	274.8	22.0	15.6	21.0	15.6	8.3	5.7	8.0	5.7
Washington	2,578.6	2,651.3	2,596.8	2,655.6	76.9	66.6	74.0	61.4	3.0	2.5	2.8	2.3
Florida	7,339.3	7,544.9	7,360.2	7,542.5	313.2	300.1	310.9	300.5	4.3	4.0	4.2	4.0
Daytona Beach	191.2	196.5	190.7	195.3	6.4	6.1	6.3	6.2	3.3	3.1	3.3	3.2
Fort Lauderdale	765.9	779.9	767.6	779.9	33.6	32.1	34.4	32.9	4.4	4.1	4.5	4.2
Fort Myers-Cape Coral	175.9	180.0	176.7	181.0	5.2	5.1	4.9	5.1	3.0	2.8	2.8	2.8
Fort Pierce-Port St. Lucie	123.2	124.2	122.9	124.3	11.7	11.4	10.4	10.4	9.5	9.1	8.5	8.4
Fort Walton Beach	80.3	84.3	79.5	83.4	2.4	2.8	2.5	3.0	3.0	3.3	3.2	3.6
Gainesville	104.9	108.1	104.3	107.5	2.5	2.3	2.3	2.3	2.3	2.1	2.2	2.1
Jacksonville	541.4	558.6	539.2	555.3	15.2	17.0	15.8	17.9	2.8	3.0	2.9	3.2
Lakeland-Winter Haven	199.8	203.0	200.9	203.4	11.2	10.6	10.0	10.0	5.6	5.2	5.0	4.9
Melbourne-Titusville-Palm Bay	209.2	213.2	208.2	212.5	9.6	8.4	9.5	8.6	4.6	4.0	4.6	4.0
Miami	1,052.0	1,056.2	1,057.1	1,053.4	66.8	60.5	69.8	61.4	6.4	5.7	6.6	5.8
Naples	93.3	100.3	95.4	101.7	4.5	4.8	3.7	3.9	4.8	4.7	3.9	3.8
Ocala	98.3	100.7	98.6	101.3	4.1	3.6	3.9	3.7	4.2	3.6	4.0	3.7
Orlando	857.2	890.7	858.7	887.0	24.6	24.9	25.1	25.2	2.9	2.8	2.9	2.8
Panama City	65.9	66.9	64.8	66.5	5.2	4.1	5.2	4.9	7.8	6.2	8.0	7.4
Pensacola	175.4	180.6	174.2	179.4	6.4	7.0	6.4	7.2	3.6	3.9	3.7	4.0
Punta Gorda	44.7	45.9	45.0	46.0	1.6	1.6	1.5	1.5	3.6	3.4	3.3	3.3
Sarasota-Bradenton	263.6	272.1	265.4	273.1	6.8	6.7	6.1	6.2	2.6	2.4	2.3	2.3
Tallahassee	149.1	151.7	148.8	151.0	4.3	4.0	4.5	4.1	2.9	2.7	3.0	2.7
Tampa-St. Petersburg-Clearwater	1,194.0	1,248.4	1,198.5	1,253.4	34.2	34.9	34.6	36.3	2.9	2.8	2.9	2.9
West Palm Beach-Boca Raton	517.5	541.2	523.6	543.0	29.2	28.2	27.8	26.0	5.6	5.2	5.3	4.8
Georgia	4,046.1	4,115.2	4,056.9	4,136.0	170.5	152.4	152.6	141.6	4.2	3.7	3.8	3.4
Albany	57.6	54.9	57.0	54.0	5.1	3.6	4.5	3.2	8.8	6.6	7.9	5.8
Athens	73.0	72.0	72.9	72.0	2.1	1.7	1.7	1.5	2.8	2.4	2.4	2.1
Atlanta	2,120.8	2,132.1	2,120.1	2,131.1	70.9	64.6	63.2	60.2	3.3	3.0	3.0	2.8
Augusta-Aiken	204.9	200.3	204.1	199.5	11.6	10.1	9.8	9.3	5.6	5.1	4.8	4.7
Columbus	125.2	124.8	125.0	124.8	6.3	6.1	5.4	5.8	5.0	4.9	4.4	4.7
Macon	152.2	146.0	151.8	145.8	8.1	6.8	7.2	5.9	5.3	4.6	4.8	4.0
Savannah	134.6	130.4	134.2	130.3	7.2	5.0	6.2	4.5	5.4	3.8	4.7	3.5
Hawaii	597.4	599.0	602.4	601.0	36.2	31.2	35.6	31.3	6.1	5.2	5.9	5.2
Honolulu	430.1	428.7	434.0	429.8	23.2	20.1	22.7	20.2	5.4	4.7	5.2	4.7
Idaho	661.1	661.4	662.8	657.7	26.6	27.8	29.5	28.1	4.0	4.2	4.4	4.3
Boise City	224.2	229.0	229.9	229.9	7.1	8.2	7.6	7.5	3.2	3.6	3.3	3.3
Pocatello	41.1	41.0	42.1	41.6	1.6	2.0	1.9	1.8	4.0	4.9	4.5	4.4
Illinois	6,252.8	6,363.6	6,262.4	6,390.7	254.5	250.3	256.0	249.7	4.1	3.9	4.1	3.9
Bloomington-Normal	87.4	88.5	87.4	88.9	1.6	1.8	1.6	1.9	1.8	2.1	1.9	2.1
Champaign-Urbana	95.3	96.0	95.6	96.7	2.2	2.0	2.2	2.0	2.3	2.1	2.3	2.1
Chicago	4,189.2	4,287.4	4,200.2	4,307.7	168.0	164.7	166.6	161.5	4.0	3.8	4.0	3.7
Davenport-Moline-Rock Island	184.1	187.6	186.0	186.9	5.1	6.5	6.0	6.5	2.8	3.5	3.2	3.5
Decatur	57.9	58.0	57.5	58.2	2.8	2.8	2.8	2.7	4.9	4.8	4.8	4.7
Kankakee	53.1	52.4	52.8	53.2	3.1	2.4	2.9	2.4	5.9	4.6	5.5	4.5
Peoria-Pekin	185.6	188.2	185.3	189.3	6.2	6.5	6.2	7.8	3.3	3.4	3.3	4.1
Rockford	195.8	198.1	193.8	199.3	7.5	7.7	7.9	8.0	3.9	3.9	4.1	4.0
Springfield	106.8	108.5	107.0	108.7	3.8	3.6	3.8	3.6	3.6	3.3	3.5	3.3
Indiana	3,118.8	3,109.4	3,119.7	3,105.7	84.1	76.3	88.0	85.6	2.7	2.5	2.8	2.8
Bloomington	62.6	61.6	62.7	61.7	1.3	1.0	1.4	1.1	2.1	1.6	2.2	1.8
Elkhart-Goshen	95.9	96.5	95.8	96.3	2.1	1.9	2.1	2.2	2.2	1.9	2.2	2.3
Evansville-Henderson	158.6	160.2	159.8	161.0	4.8	4.2	5.0	4.4	3.0	2.6	3.1	2.8
Fort Wayne	267.9	266.2	267.9	266.2	6.5	6.0	6.7	6.7	2.4	2.3	2.5	2.5
Gary	306.8	299.7	308.0	299.8	10.9	9.7	11.4	10.5	3.5	3.2	3.7	3.5
Indianapolis	842.4	842.8	843.1	840.0	18.9	17.4	19.8	19.5	2.2	2.1	2.3	2.3
Kokomo	51.3	51.7	51.8	51.7	1.2	1.0	1.5	1.1	2.4	2.0	2.9	2.2
Lafayette	91.9	92.7	92.1	93.1	1.7	1.5	1.8	1.7	1.9	1.7	1.9	1.8
Muncie	62.8	63.3	63.1	63.8	2.1	1.4	2.1	1.7	3.4	2.3	3.3	2.7
South Bend	137.8	136.5	138.0	136.4	3.3	3.8	3.4	4.2	2.4	2.8	2.5	3.1
Terre Haute	70.6	68.9	70.5	68.8	2.7	2.5	2.8	2.8	3.9	3.6	4.0	4.1
Iowa	1,575.6	1,588.1	1,581.4	1,578.8	33.6	28.4	39.4	31.3	2.1	1.8	2.5	2.0
Cedar Rapids	110.7	113.3	112.4	113.1	1.6	1.6	1.7	1.7	1.5	1.4	1.5	1.5
Des Moines	255.9	261.3	258.3	259.4	4.5	4.1	4.9	4.1	1.8	1.6	1.9	1.6
Dubuque	48.7	48.0	48.8	47.8	1.2	0.8	1.3	0.9	2.4	1.7	2.8	1.9
Iowa City	64.8	65.3	66.7	66.3	1.3	1.0	1.4	1.1	2.1	1.6	2.1	1.6
Sioux City	65.6	66.3	66.0	65.9	1.5	1.1	1.7	1.2	2.3	1.7	2.5	1.9
Waterloo-Cedar Falls	69.7	69.7	70.7	69.7	2.0	1.7	2.5	1.7	2.9	2.5	3.5	2.5

See footnotes at end of table.

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

C-3. Labor force status by State and metropolitan area—Continued

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	October		November		October		November		October		November	
	1998	1999	1998	1999P	1998	1999	1998	1999P	1998	1999	1998	1999P
Kansas	1,429.5	1,454.7	1,442.5	1,458.9	53.3	46.2	53.1	47.5	3.7	3.2	3.7	3.3
Lawrence	57.1	57.2	58.1	57.8	2.4	2.0	2.3	2.0	4.2	3.6	3.9	3.5
Topeka	92.1	92.8	92.5	93.2	4.4	3.3	4.0	3.3	4.8	3.6	4.3	3.5
Wichita	291.2	296.3	293.5	296.5	10.1	11.3	10.2	11.7	3.5	3.8	3.5	4.0
Kentucky	1,928.5	1,962.2	1,942.9	1,961.8	82.9	77.5	79.8	72.3	4.3	4.0	4.1	3.7
Lexington	257.4	261.5	258.7	262.1	5.3	4.8	5.0	4.6	2.0	1.8	1.9	1.8
Louisville	551.8	570.7	556.0	570.1	17.2	19.9	15.6	16.7	3.1	3.5	2.8	2.9
Owensboro	49.3	50.6	50.0	50.9	2.1	2.3	2.1	2.2	4.3	4.6	4.2	4.3
Louisiana	2,072.2	2,093.8	2,058.8	2,080.6	104.3	109.7	100.7	90.8	5.0	5.2	4.9	4.4
Alexandria	60.0	61.3	59.7	61.2	2.8	2.9	2.7	2.5	4.7	4.7	4.6	4.1
Baton Rouge	303.6	315.0	302.6	313.7	12.0	13.6	11.4	10.7	4.0	4.3	3.8	3.4
Houma	96.0	96.2	95.6	95.6	3.2	3.8	3.2	3.1	3.4	3.9	3.4	3.2
Lafayette	182.0	183.9	181.4	182.6	9.1	10.6	8.8	8.5	5.0	5.7	4.9	4.6
Lake Charles	92.0	93.2	90.8	92.8	4.8	4.8	4.8	4.1	5.2	5.2	5.3	4.4
Monroe	71.2	72.5	70.8	72.2	3.3	2.9	3.2	2.5	4.7	4.0	4.5	3.4
New Orleans	622.6	627.0	618.2	625.8	27.1	30.3	25.5	24.9	4.4	4.8	4.1	4.0
Shreveport-Bossier City	187.6	189.5	186.2	188.0	9.7	9.4	9.1	7.9	5.2	4.9	4.9	4.2
Maine	659.3	681.2	657.7	679.0	24.3	22.5	27.4	24.5	3.7	3.3	4.2	3.6
Bangor	50.4	53.2	50.4	53.4	1.2	1.2	1.4	1.3	2.4	2.2	2.8	2.4
Lewiston-Auburn	53.1	54.4	53.3	55.2	2.0	1.7	2.1	1.7	3.7	3.2	3.9	3.1
Portland	134.0	140.7	136.2	141.3	2.7	2.8	2.6	2.8	2.0	2.0	1.9	2.0
Maryland	2,775.8	2,825.6	2,792.7	2,820.1	111.7	94.1	111.1	88.0	4.0	3.3	4.0	3.1
Baltimore	1,308.9	1,328.6	1,316.9	1,325.5	60.4	50.5	59.1	46.5	4.6	3.8	4.5	3.5
Cumberland	45.5	46.6	45.8	46.9	3.4	2.8	3.4	2.8	7.5	6.1	7.5	5.9
Hagerstown	69.7	71.6	70.0	71.7	2.4	2.0	2.4	1.8	3.5	2.8	3.4	2.6
Massachusetts	3,270.6	3,285.2	3,268.6	3,289.6	92.9	92.9	88.5	92.6	2.8	2.8	2.7	2.8
Barnstable-Yarmouth	73.4	75.8	71.2	73.2	2.0	1.9	2.8	2.7	2.7	2.5	3.9	3.6
Boston	1,813.8	1,821.4	1,817.0	1,827.9	44.1	45.7	41.2	44.5	2.4	2.5	2.3	2.4
Brockton	132.7	134.4	133.3	135.5	4.0	4.1	3.7	4.1	3.0	3.1	2.8	3.0
Fitchburg-Leominster	68.9	69.3	68.9	69.4	2.5	2.6	2.3	2.5	3.7	3.7	3.4	3.6
Lawrence	197.8	199.4	198.3	200.6	9.5	8.2	8.9	8.7	4.8	4.1	4.5	4.3
Lowell	167.5	169.6	167.9	170.5	5.2	5.2	4.8	5.0	3.1	3.1	2.8	2.9
New Bedford	81.4	82.8	81.6	82.6	4.4	3.8	4.2	3.8	5.4	4.6	5.1	4.7
Pittsfield	39.6	40.2	39.6	40.2	1.3	1.4	1.4	1.4	3.4	3.5	3.5	3.5
Springfield	282.7	282.8	283.3	283.9	8.9	8.6	8.5	8.6	3.1	3.0	3.0	3.0
Worcester	254.0	251.6	254.8	253.1	7.1	7.1	6.7	7.0	2.8	2.8	2.6	2.8
Michigan	5,061.9	5,104.4	5,074.0	5,132.9	161.2	158.7	167.8	167.4	3.2	3.1	3.3	3.3
Ann Arbor	300.3	301.6	301.7	303.9	5.5	5.5	5.2	5.5	1.8	1.8	1.7	1.8
Benton Harbor	83.3	83.8	83.5	84.0	3.1	2.8	3.3	2.9	3.7	3.3	4.0	3.5
Detroit	2,269.4	2,278.9	2,276.7	2,296.4	71.5	66.2	68.3	66.2	3.1	2.9	3.0	2.9
Flint	199.8	192.9	200.7	194.3	9.2	9.7	8.9	9.5	4.6	5.0	4.4	4.9
Grand Rapids-Muskegon-Holland	600.9	619.3	602.5	622.3	15.5	18.2	16.0	18.5	2.6	2.9	2.7	3.0
Jackson	76.7	77.7	76.9	78.5	2.4	2.1	2.3	2.1	3.1	2.7	3.0	2.7
Kalamazoo-Battle Creek	233.0	233.7	233.4	235.4	6.6	7.4	6.7	8.0	2.8	3.2	2.9	3.4
Lansing-East Lansing	244.7	246.1	246.2	248.5	5.2	5.5	5.4	5.6	2.1	2.2	2.2	2.3
Saginaw-Bay City-Midland	201.3	202.3	201.7	203.5	6.8	7.0	7.5	7.4	3.4	3.5	3.7	3.6
Minnesota	2,722.4	2,753.0	2,722.9	2,744.3	57.6	53.0	58.2	57.3	2.1	1.9	2.1	2.1
Duluth-Superior	126.7	127.0	126.6	126.7	4.1	3.3	4.3	3.7	3.2	2.6	3.4	2.9
Minneapolis-St. Paul	1,703.3	1,734.7	1,712.2	1,738.5	30.7	29.7	28.4	29.5	1.8	1.7	1.7	1.7
Rochester	70.8	72.4	71.1	72.4	1.0	1.2	0.9	1.2	1.3	1.6	1.3	1.7
St. Cloud	94.6	96.6	94.9	96.4	2.1	1.8	2.1	2.0	2.3	1.8	2.3	2.1
Mississippi	1,274.4	1,285.5	1,281.2	1,285.0	62.5	63.8	56.5	48.9	4.9	5.0	4.4	3.8
Biloxi-Gulfport-Pascagoula	169.1	173.5	169.8	173.5	6.9	7.1	5.7	5.7	4.1	4.1	3.3	3.3
Hattiesburg	51.2	50.1	51.4	50.5	1.6	1.7	1.4	1.5	3.2	3.4	2.7	2.9
Jackson	227.3	229.9	227.8	231.3	7.9	8.0	6.8	5.9	3.5	3.5	3.0	2.6
Missouri	2,871.2	2,891.3	2,882.1	2,883.2	91.9	62.4	92.9	66.3	3.2	2.2	3.2	2.3
Columbia	83.8	81.9	84.6	81.9	1.0	0.6	1.0	0.7	1.2	0.7	1.2	0.8
Joplin	84.8	81.9	85.1	82.0	3.3	1.8	3.0	2.0	3.9	2.3	3.6	2.4
Kansas City	972.0	1,001.6	980.2	1,002.5	31.4	25.6	31.3	26.1	3.2	2.6	3.2	2.6
St. Joseph	50.2	48.6	50.2	48.2	1.9	1.1	1.9	1.1	3.8	2.2	3.7	2.3
St. Louis LMA	1,320.8	1,355.0	1,330.7	1,354.2	47.7	36.1	46.7	36.6	3.6	2.7	3.5	2.7
Springfield	165.4	173.1	165.9	173.1	3.9	2.5	4.2	2.6	2.4	1.4	2.5	1.5
Montana	468.6	473.9	469.1	474.2	23.9	20.8	26.3	22.6	5.1	4.4	5.6	4.8
Billings	69.8	73.3	69.6	73.0	2.6	2.7	2.7	2.7	3.8	3.7	3.9	3.7
Great Falls	38.8	38.1	38.6	38.3	2.0	1.8	2.2	1.7	5.3	4.8	5.6	4.5
Missoula	53.3	53.8	53.1	53.8	1.9	1.7	2.8	1.8	3.5	3.2	5.3	3.4

See footnotes at end of table.

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

C-3. Labor force status by State and metropolitan area—Continued

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	October		November		October		November		October		November	
	1998	1999	1998	1999P	1998	1999	1998	1999P	1998	1999	1998	1999P
Nebraska	928.5	932.0	933.7	934.6	23.4	22.1	21.3	20.7	2.5	2.4	2.3	2.2
Lincoln	146.0	148.9	147.2	150.7	3.1	3.0	2.7	2.8	2.2	2.0	1.9	1.8
Omaha	394.1	396.2	397.7	398.7	9.3	8.6	8.4	8.1	2.4	2.2	2.1	2.0
Nevada	934.7	967.0	935.6	964.0	32.2	39.2	29.4	38.0	3.4	4.1	3.1	3.9
Las Vegas	713.0	751.2	714.8	749.6	25.0	32.2	22.5	30.4	3.5	4.3	3.1	4.1
Reno	177.0	178.6	176.5	178.1	5.0	4.7	4.7	5.0	2.8	2.6	2.7	2.8
New Hampshire	655.5	668.4	664.1	676.1	16.3	13.8	19.4	18.1	2.5	2.1	2.9	2.7
Manchester	104.0	105.5	106.6	108.0	2.4	2.0	2.8	2.5	2.3	1.9	2.6	2.3
Nashua	102.9	102.8	104.3	103.8	2.8	2.5	3.1	3.0	2.7	2.4	3.0	2.9
Portsmouth-Rochester	124.9	126.6	126.2	127.1	2.5	2.0	3.0	2.6	2.0	1.6	2.4	2.0
New Jersey	4,158.7	4,233.4	4,173.5	4,242.6	174.1	177.9	173.8	170.8	4.2	4.2	4.2	4.0
Atlantic-Cape May	169.9	169.9	168.6	167.7	12.8	11.4	14.7	13.0	7.5	6.7	8.7	7.8
Bergen-Passaic	677.6	690.8	681.6	692.7	26.8	28.7	26.8	27.2	4.0	4.2	3.9	3.9
Jersey City	281.2	284.3	282.0	284.7	19.1	18.9	18.6	17.6	6.8	6.7	6.6	6.2
Middlesex-Somerset-Hunterdon	635.4	651.1	639.0	654.7	18.4	20.1	18.1	19.2	2.9	3.1	2.8	2.9
Monmouth-Ocean	509.5	521.4	510.2	520.6	20.0	19.8	20.4	18.3	3.9	3.8	4.0	3.5
Newark	1,013.3	1,035.0	1,017.5	1,038.0	42.2	42.8	40.9	40.3	4.2	4.1	4.0	3.9
Trenton	167.5	169.9	168.0	169.9	6.3	6.0	6.0	5.8	3.7	3.6	3.6	3.4
Vineland-Millville-Bridgeton	64.5	64.3	64.6	64.8	5.0	4.7	5.1	4.9	7.8	7.3	8.0	7.6
New Mexico	838.1	834.6	841.4	836.3	50.2	46.5	50.1	46.1	6.0	5.6	6.0	5.5
Albuquerque	364.2	362.9	367.5	365.6	17.8	15.1	16.5	14.4	4.9	4.2	4.5	4.0
Las Cruces	69.6	71.0	69.8	70.6	5.2	4.9	5.3	4.5	7.5	6.9	7.5	6.3
Santa Fe	74.8	75.2	74.8	74.7	2.5	2.2	2.4	2.1	3.4	2.9	3.2	2.8
New York	8,859.2	8,923.5	8,862.0	8,891.7	460.0	441.7	459.5	422.8	5.2	4.9	5.2	4.8
Albany-Schenectady-Troy	451.0	451.3	453.4	450.7	14.1	15.1	14.1	14.6	3.1	3.3	3.1	3.2
Binghamton	125.6	125.7	126.3	126.0	4.3	4.3	4.3	4.2	3.4	3.4	3.4	3.3
Buffalo-Niagara Falls	570.8	569.2	573.1	568.2	24.1	26.1	25.8	26.6	4.2	4.6	4.5	4.7
Dutchess County	119.0	121.6	119.0	121.4	3.6	4.1	3.4	3.7	3.0	3.3	2.9	3.1
Elmira	44.7	44.2	45.1	44.2	1.6	2.1	1.7	2.1	3.6	4.7	3.7	4.7
Glens Falls	59.6	59.1	58.6	57.6	2.6	2.1	3.4	2.7	4.3	3.6	5.8	4.7
Jamestown	66.9	66.8	66.7	66.3	3.1	2.8	3.4	3.0	4.6	4.3	5.1	4.5
Nassau-Suffolk	1,400.3	1,428.7	1,408.6	1,432.8	39.0	44.7	37.8	43.0	2.8	3.1	2.7	3.0
New York	4,091.5	4,109.6	4,087.4	4,089.2	293.1	259.0	285.0	236.9	7.2	6.3	7.0	5.8
New York City	3,445.4	3,452.2	3,439.0	3,432.1	274.0	237.5	267.2	217.4	8.0	6.9	7.8	6.3
Newburgh	171.8	176.9	171.3	176.1	5.1	5.5	5.1	5.2	3.0	3.1	3.0	3.0
Rochester	573.3	574.8	572.9	571.4	19.2	22.0	20.0	22.2	3.3	3.8	3.5	3.9
Syracuse	362.9	366.5	363.0	364.9	12.2	14.4	12.4	14.9	3.4	3.9	3.4	4.1
Utica-Rome	141.9	142.7	141.6	142.2	5.1	5.1	5.5	5.6	3.6	3.6	3.9	4.0
North Carolina	3,823.4	3,885.6	3,831.3	3,888.1	121.2	118.1	119.4	120.5	3.2	3.0	3.1	3.1
Asheville	111.2	111.7	111.9	112.6	2.6	2.0	2.5	2.2	2.3	1.8	2.2	1.9
Charlotte-Gastonia-Rock Hill	750.0	762.6	751.3	763.8	18.6	19.9	17.4	20.3	2.5	2.6	2.3	2.7
Fayetteville	112.9	116.2	113.5	117.6	4.6	4.2	4.3	4.5	4.1	3.6	3.8	3.8
Goldensboro	48.2	47.8	47.7	47.8	2.2	2.0	2.1	1.9	4.6	4.2	4.3	4.0
Greensboro-Winston-Salem-High Point	634.8	643.3	637.0	646.7	14.7	15.6	14.0	15.4	2.3	2.4	2.2	2.4
Greenville	64.5	65.6	65.1	65.8	2.5	3.5	2.5	3.1	3.9	5.3	3.8	4.6
Hickory-Morganton-Lenoir	169.7	172.8	170.6	173.7	4.2	3.1	3.9	3.1	2.5	1.8	2.3	1.8
Jacksonville	45.0	46.5	45.3	46.3	1.6	1.6	1.6	1.5	3.6	3.5	3.5	3.3
Raleigh-Durham-Chapel Hill	634.9	644.6	639.5	647.0	10.4	9.5	9.8	9.8	1.6	1.5	1.5	1.5
Rocky Mount	67.0	67.4	66.8	66.3	4.4	4.5	4.2	4.3	6.5	6.7	6.2	6.5
Wilmington	104.9	112.4	105.1	112.6	4.1	3.8	3.9	3.9	3.9	3.4	3.7	3.5
North Dakota	345.3	341.4	340.1	336.3	7.6	7.0	9.0	8.7	2.2	2.0	2.6	2.6
Bismarck	53.7	54.0	53.2	53.4	1.1	1.1	1.4	1.2	2.1	2.0	2.6	2.3
Fargo-Moorhead	104.2	103.3	103.1	102.4	1.2	1.1	1.3	1.4	1.1	1.1	1.3	1.4
Grand Forks	53.6	53.1	53.6	53.1	0.9	0.9	1.1	1.0	1.8	1.7	2.0	1.9
Ohio	5,758.2	5,851.3	5,790.2	5,842.8	225.4	227.5	230.8	225.2	3.9	3.9	4.0	3.9
Akron	363.2	372.7	365.3	371.9	13.1	14.0	13.7	14.0	3.6	3.8	3.8	3.8
Canton-Massillon	204.1	209.6	205.2	209.7	7.6	8.2	8.0	8.2	3.7	3.9	3.9	3.9
Cincinnati	850.4	879.5	857.5	880.0	29.0	29.8	27.7	28.8	3.4	3.4	3.2	3.3
Cleveland-Lorain-Elyria	1,119.9	1,135.7	1,126.8	1,135.9	46.3	46.7	46.7	46.6	4.1	4.1	4.1	4.1
Columbus	823.6	841.7	830.5	842.8	21.8	21.6	20.9	20.4	2.6	2.6	2.5	2.4
Dayton-Springfield	475.8	480.7	478.1	480.0	17.2	17.2	16.7	16.7	3.6	3.6	3.5	3.5
Hamilton-Middletown	181.6	186.3	182.7	185.7	5.8	5.6	6.0	5.2	3.2	3.0	3.3	2.8
Lima	74.7	75.7	75.2	76.1	3.5	3.0	3.7	3.1	4.7	4.0	4.9	4.0
Mansfield	83.0	85.3	83.7	85.0	4.5	6.2	4.4	5.8	5.4	7.2	5.2	6.9
Steubenville-Weirton	57.8	56.6	57.7	56.9	3.2	2.7	3.6	2.9	5.5	4.9	6.2	5.2
Toledo	323.5	328.2	325.8	327.3	14.3	13.1	14.5	12.4	4.4	4.0	4.4	3.8
Youngstown-Warren	286.3	289.8	288.0	289.3	14.2	13.9	15.0	14.1	5.0	4.8	5.2	4.9

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

C-3. Labor force status by State and metropolitan area—Continued

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	October		November		October		November		October		November	
	1998	1999	1998	1999P	1998	1999	1998	1999P	1998	1999	1998	1999P
Oklahoma	1,650.6	1,678.6	1,647.9	1,679.9	74.3	51.6	68.3	49.2	4.5	3.1	4.1	2.9
Enid	27.7	27.9	27.6	28.0	1.1	0.8	1.0	0.7	3.9	2.9	3.7	2.7
Lawton	41.6	42.2	41.7	42.2	2.1	1.4	1.9	1.4	5.1	3.4	4.6	3.2
Oklahoma City	541.8	552.4	541.8	553.0	19.5	13.0	17.4	12.2	3.6	2.3	3.2	2.2
Tulsa	421.5	436.5	423.0	436.7	14.8	13.4	13.7	12.5	3.5	3.1	3.2	2.9
Oregon	1,783.2	1,750.5	1,784.6	1,789.4	89.1	85.0	95.5	87.8	5.0	4.9	5.4	4.9
Eugene-Springfield	164.4	163.1	165.5	166.2	8.0	8.4	8.3	8.8	4.9	5.2	5.0	5.3
Medford-Ashland	90.4	89.1	90.2	90.5	5.1	4.3	5.3	4.3	5.7	4.9	5.9	4.8
Portland-Vancouver	1,058.3	1,050.0	1,065.9	1,076.1	44.8	43.5	45.3	40.7	4.2	4.1	4.2	3.8
Salem	171.3	168.5	170.4	170.1	8.1	8.5	9.2	9.0	4.7	5.1	5.4	5.3
Pennsylvania	5,943.6	5,972.2	5,955.5	5,971.3	245.6	226.4	253.1	241.8	4.1	3.8	4.2	4.0
Allentown-Bethlehem-Easton	310.9	313.3	312.5	312.8	13.4	11.7	13.3	11.9	4.3	3.7	4.2	3.8
Altoona	62.4	62.7	62.6	62.9	2.6	2.6	2.8	2.7	4.2	4.2	4.4	4.3
Erie	139.8	141.4	139.5	140.8	5.9	6.1	6.4	6.6	4.3	4.3	4.6	4.7
Harrisburg-Lebanon-Carlisle	350.0	350.1	350.4	348.9	9.5	10.1	9.6	10.5	2.7	2.9	2.7	3.0
Johnstown	101.5	100.4	102.1	101.5	5.2	4.6	5.8	5.4	5.2	4.6	5.7	5.3
Lancaster	242.6	243.6	242.5	243.0	6.3	6.0	6.4	6.2	2.6	2.5	2.6	2.5
Philadelphia	2,501.3	2,524.0	2,505.8	2,529.3	100.9	99.4	98.8	100.4	4.0	3.9	3.9	4.0
Pittsburgh	1,150.0	1,159.6	1,155.1	1,158.2	45.7	41.3	48.3	44.9	4.0	3.6	4.2	3.9
Reading	183.2	183.4	183.4	183.5	7.2	5.9	7.3	5.9	3.9	3.2	4.0	3.2
Scranton-Wilkes-Barre-Hazleton	308.3	307.1	309.8	308.2	16.2	13.9	17.0	15.3	5.3	4.5	5.5	5.0
Sharon	56.8	57.0	56.8	57.5	2.0	2.6	2.0	2.8	3.5	4.5	3.5	4.9
State College	68.3	69.0	69.0	69.1	1.6	1.4	1.8	1.6	2.4	2.1	2.6	2.2
Williamsport	56.9	56.9	57.0	57.0	2.6	2.2	2.9	2.5	4.6	3.9	5.1	4.3
York	190.7	193.0	190.8	193.2	6.4	6.1	6.3	6.6	3.3	3.2	3.3	3.4
Rhode Island	503.3	506.9	503.2	512.0	24.1	19.6	19.8	17.3	4.8	3.9	3.9	3.4
Providence-Fall River-Warwick	577.3	581.2	578.1	586.9	26.6	22.3	22.4	19.9	4.6	3.8	3.9	3.4
South Carolina	1,967.1	1,981.7	1,955.5	1,968.6	81.2	89.8	69.6	84.3	4.1	4.5	3.6	4.3
Charleston-North Charleston	267.2	277.0	266.1	275.5	8.4	9.3	6.7	9.0	3.1	3.4	2.5	3.3
Columbia	279.9	286.7	280.1	285.7	6.1	7.2	5.1	6.9	2.2	2.5	1.8	2.4
Florence	64.7	63.2	64.0	63.3	3.2	3.3	2.6	3.9	4.9	5.2	4.0	6.2
Greenville-Spartanburg-Anderson	494.5	500.3	493.4	498.0	15.7	15.7	12.8	14.9	3.2	3.1	2.6	3.0
Myrtle Beach	103.9	104.2	101.5	103.0	3.7	3.7	4.1	4.6	3.5	3.5	4.0	4.4
Sumter	47.7	47.2	47.2	46.9	2.5	2.6	2.0	2.5	5.2	5.5	4.3	5.4
South Dakota	399.8	400.7	399.6	400.4	8.5	8.5	10.6	9.7	2.1	2.1	2.6	2.4
Rapid City	47.6	48.4	47.4	47.7	0.9	0.9	1.2	1.1	2.0	2.0	2.5	2.3
Sioux Falls	101.6	103.9	101.7	104.5	1.3	1.5	1.5	1.6	1.3	1.4	1.4	1.5
Tennessee	2,817.8	2,844.4	2,825.7	2,845.3	109.2	95.3	110.7	100.1	3.9	3.4	3.9	3.5
Chattanooga	222.6	220.0	221.2	218.9	8.1	6.9	7.6	6.8	3.6	3.1	3.4	3.1
Clarksville-Hopkinsville	82.8	84.7	83.1	84.5	3.2	3.0	2.8	2.7	3.8	3.5	3.3	3.3
Jackson	57.7	58.1	57.7	58.1	1.9	1.8	2.0	1.9	3.3	3.1	3.4	3.2
Johnson City-Kingsport-Bristol	226.6	225.4	227.6	225.3	9.0	8.0	8.8	8.1	4.0	3.5	3.9	3.6
Knoxville	351.9	352.1	351.3	351.9	11.7	8.7	12.3	9.6	3.3	2.5	3.5	2.7
Memphis	569.0	580.6	573.3	583.9	19.1	19.7	18.8	19.6	3.4	3.4	3.3	3.4
Nashville	658.3	671.9	660.1	674.5	18.1	16.9	17.4	17.0	2.7	2.5	2.6	2.5
Texas	10,225.0	10,412.0	10,251.0	10,408.8	452.7	448.7	471.1	439.4	4.4	4.3	4.6	4.2
Abilene	62.4	62.6	62.6	62.9	2.1	2.0	2.2	2.1	3.4	3.2	3.5	3.4
Amarillo	114.0	116.7	113.9	116.5	3.5	4.5	3.6	4.3	3.1	3.9	3.1	3.7
Austin-San Marcos	697.4	719.3	697.9	720.1	17.0	15.3	17.2	14.7	2.4	2.1	2.5	2.0
Beaumont-Port Arthur	185.7	190.1	186.7	189.3	12.6	15.2	13.2	14.8	6.8	8.0	7.1	7.8
Brazoria	105.8	106.8	106.3	106.1	5.7	6.9	6.0	6.7	5.4	6.5	5.7	6.4
Brownsville-Harlingen-San Benito	127.0	123.8	126.9	123.9	14.4	10.5	14.8	11.2	11.3	8.5	11.6	9.0
Bryan-College Station	77.2	79.6	77.3	80.0	1.2	1.2	1.3	1.2	1.6	1.5	1.6	1.5
Corpus Christi	178.3	177.3	178.3	177.1	11.6	11.0	11.6	11.0	6.5	6.2	6.5	6.2
Dallas	1,895.2	1,949.1	1,898.2	1,946.6	55.7	59.3	56.9	57.1	2.9	3.0	3.0	2.9
El Paso	291.8	293.1	291.7	291.2	28.9	25.7	29.9	24.3	9.9	8.8	10.2	8.4
Fort Worth-Arlington	889.3	919.7	892.6	920.1	26.4	27.6	26.8	26.8	3.0	3.0	3.0	2.9
Galveston-Texas City	124.4	124.5	124.2	123.8	7.4	7.6	7.7	7.2	6.0	6.1	6.2	5.8
Houston	2,148.9	2,196.6	2,154.3	2,200.4	79.3	96.6	82.5	93.9	3.7	4.4	3.8	4.3
Killeen-Temple	115.5	116.2	115.6	116.5	4.5	4.0	4.5	3.9	3.9	3.4	3.9	3.3
Laredo	73.6	74.8	74.4	74.9	6.4	5.1	6.7	5.0	8.7	6.8	9.0	6.7
Longview-Marshall	106.8	107.1	107.4	106.8	7.5	7.1	7.9	6.7	7.0	6.6	7.4	6.2
Lubbock	125.1	126.3	125.3	126.7	3.2	3.2	3.2	3.0	2.5	2.5	2.5	2.4
McAllen-Edinburg-Mission	191.3	187.9	196.3	191.2	30.9	23.2	34.6	25.0	16.2	12.3	17.6	13.0
Odessa-Midland	128.5	127.0	128.6	126.3	7.4	8.9	7.9	8.2	5.7	7.0	6.1	6.5
San Angelo	53.5	53.5	53.6	53.1	2.7	2.0	2.7	1.9	5.0	3.7	5.0	3.5
San Antonio	767.0	783.1	766.6	781.3	25.0	25.1	25.1	24.2	3.3	3.2	3.3	3.1
Sherman-Denison	51.6	51.8	51.6	51.8	2.7	2.1	2.7	2.0	5.3	4.1	5.2	3.9
Texarkana	56.5	56.5	56.9	56.5	3.7	2.6	3.6	2.5	6.5	4.7	6.4	4.4
Tyler	91.3	93.1	91.3	93.1	4.3	3.6	4.3	3.7	4.7	3.9	4.8	4.0

See footnotes at end of table.

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

C-3. Labor force status by State and metropolitan area—Continued

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	October		November		October		November		October		November	
	1998	1999	1998	1999P	1998	1999	1998	1999P	1998	1999	1998	1999P
Texas—Continued												
Victoria	43.4	44.0	43.5	44.1	1.8	1.7	1.9	1.6	4.1	3.8	4.5	3.6
Waco	102.4	104.7	102.0	104.2	3.6	3.2	3.4	3.1	3.5	3.0	3.4	3.0
Wichita Falls	65.8	65.9	66.4	66.0	2.7	2.6	3.1	3.1	4.1	4.0	4.7	4.6
Utah	1,085.0	1,114.5	1,089.5	1,110.6	37.5	36.5	34.7	29.8	3.5	3.3	3.2	2.7
Provo-Orem	163.6	169.5	164.6	169.6	5.0	4.4	4.7	3.4	3.1	2.6	2.8	2.0
Salt Lake City-Ogden	696.4	714.0	696.0	707.3	23.4	23.5	21.0	18.8	3.4	3.3	3.0	2.7
Vermont	335.3	340.2	336.2	339.2	9.7	8.7	9.9	8.4	2.9	2.6	2.9	2.5
Burlington	101.1	102.1	102.3	102.1	2.2	1.9	2.0	1.6	2.1	1.8	2.0	1.6
Virginia	3,523.2	3,590.0	3,550.8	3,599.7	97.0	95.6	96.1	93.0	2.8	2.7	2.7	2.6
Charlottesville	76.1	78.0	76.6	77.8	1.0	1.2	0.9	1.0	1.3	1.5	1.2	1.3
Danville	56.8	56.5	57.4	56.6	2.9	3.0	3.2	3.0	5.1	5.3	5.5	5.4
Lynchburg	103.1	103.9	104.4	104.3	2.3	1.8	2.4	1.9	2.2	1.7	2.3	1.8
Norfolk-Virginia Beach-Newport News	743.1	750.1	746.5	750.0	24.6	24.7	24.3	23.3	3.3	3.3	3.3	3.1
Richmond-Petersburg	510.3	523.8	516.3	528.8	14.0	12.3	12.9	11.2	2.7	2.4	2.5	2.1
Roanoke	130.8	132.6	132.8	133.1	2.5	2.3	2.7	2.2	1.9	1.8	2.0	1.6
Washington	3,089.9	3,122.9	3,054.5	3,064.5	140.4	141.6	148.7	122.2	4.5	4.5	4.9	4.0
Bellingham	80.0	78.8	79.9	77.9	4.4	3.9	4.5	3.5	5.5	4.9	5.6	4.4
Bremerton	91.8	93.3	91.4	92.2	4.9	5.1	4.7	4.0	5.3	5.5	5.1	4.3
Olympia	99.2	102.1	99.4	102.9	5.1	4.9	4.8	4.0	5.1	4.8	4.8	3.9
Richland-Kennewick-Pasco	95.3	94.1	91.2	90.2	6.2	5.3	7.7	5.4	6.5	5.6	8.5	6.0
Seattle-Bellevue-Everett	1,387.7	1,415.9	1,398.6	1,417.4	43.9	52.3	43.1	41.6	3.2	3.7	3.1	2.9
Spokane	213.6	211.6	212.7	209.5	11.5	10.7	11.2	8.7	5.4	5.0	5.3	4.1
Tacoma	336.0	339.6	336.6	337.8	15.7	16.4	14.9	13.0	4.7	4.8	4.4	3.8
Yakima	125.6	124.7	109.2	105.2	8.9	8.3	12.8	9.1	7.1	6.6	11.7	8.7
West Virginia	799.2	813.4	799.9	813.9	45.8	48.1	46.6	49.7	5.7	5.9	5.8	6.1
Charleston	130.1	134.4	130.4	135.4	5.5	5.9	5.7	6.3	4.2	4.4	4.4	4.7
Huntington-Ashland	136.1	140.1	137.5	139.5	7.5	8.1	8.0	7.4	5.5	5.8	5.8	5.3
Parkersburg-Marietta	78.1	78.9	78.4	79.1	4.1	3.4	4.2	3.3	5.2	4.3	5.3	4.2
Wheeling	72.5	74.4	73.4	74.9	3.0	3.1	3.1	3.3	4.1	4.2	4.2	4.4
Wisconsin	2,967.0	2,960.3	2,970.4	2,958.6	91.3	67.1	95.4	75.1	3.1	2.3	3.2	2.5
Appleton-Oshkosh-Neenah	223.6	224.8	223.7	225.2	5.6	4.0	5.6	4.2	2.5	1.8	2.5	1.9
Eau Claire	84.4	83.6	84.4	83.3	2.2	1.6	2.5	1.8	2.6	1.9	2.9	2.2
Green Bay	133.0	132.8	132.1	133.3	3.3	2.5	3.2	2.6	2.5	1.9	2.4	1.9
Janesville-Beloit	79.6	77.5	79.6	78.9	3.0	2.4	3.0	4.9	3.7	3.2	3.7	6.2
Kenosha	81.9	81.0	82.2	81.8	2.5	2.0	2.6	2.1	3.1	2.5	3.1	2.6
La Crosse	73.0	73.7	72.9	73.6	1.8	1.8	1.9	1.9	2.5	2.5	2.6	2.6
Madison	263.9	265.7	266.8	268.3	3.7	2.8	3.6	3.0	1.4	1.1	1.4	1.1
Milwaukee-Waukesha	811.5	805.0	817.5	808.4	28.2	21.6	27.7	22.3	3.5	2.7	3.4	2.8
Racine	93.1	91.8	93.4	91.8	3.6	3.1	3.7	3.1	3.9	3.4	3.9	3.4
Sheboygan	60.4	60.0	60.3	60.1	1.4	1.0	1.4	1.0	2.3	1.6	2.3	1.7
Wausau	73.7	74.2	74.6	74.6	2.0	1.5	2.2	1.6	2.8	2.0	3.0	2.1
Wyoming	260.9	263.1	258.9	261.6	10.6	10.3	11.6	10.7	4.1	3.9	4.5	4.1
Casper	33.4	34.1	33.3	34.0	1.7	1.6	1.7	1.5	5.1	4.7	5.1	4.5
Cheyenne	39.5	40.4	39.7	40.6	1.2	1.3	1.3	1.2	3.0	3.3	3.3	3.0
Puerto Rico	1,268.6	1,292.1	1,314.3	1,290.3	179.3	161.2	163.7	150.4	14.1	12.5	12.5	11.7
Aguadilla	49.9	50.9	51.4	50.1	9.0	8.8	8.5	8.0	18.0	17.3	16.5	16.1
Arecibo	50.4	52.4	52.5	51.1	8.0	7.6	7.0	7.1	15.9	14.4	13.4	13.8
Caguas	115.5	118.8	119.5	120.2	15.8	14.0	14.0	13.1	13.7	11.8	11.7	10.9
Mayaguez	89.5	90.8	92.7	89.3	14.1	15.9	12.7	14.1	15.7	17.6	13.7	15.8
Ponce	105.7	109.4	109.5	112.9	18.2	17.2	17.3	16.5	17.3	15.8	15.8	14.6
San Juan-Bayamon	693.6	706.2	719.8	707.9	82.9	69.0	74.8	64.9	12.0	9.8	10.4	9.2

P = preliminary.

when new benchmark and population information becomes available.

NOTE: Data refer to place of residence. All estimates are provisional and will be revised

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-1. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
TOTAL													
Civilian noninstitutional population ¹	201,457	202,396	202,835	203,367	203,936	204,395	204,905	205,483	206,098	206,876	207,432	208,044	208,660
Civilian labor force	134,968	135,677	136,107	136,541	136,835	137,274	137,331	137,732	138,321	139,058	139,144	139,394	139,880
Percent of population	67.0	67.0	67.1	67.1	67.1	67.2	67.0	67.0	67.1	67.2	67.1	67.0	67.0
Employed	127,809	128,553	129,330	129,927	130,448	130,861	131,256	131,526	132,208	133,077	133,214	133,526	134,153
Employment-population ratio ²	63.4	63.5	63.8	63.9	64.0	64.0	64.1	64.0	64.1	64.3	64.2	64.2	64.3
Unemployed	7,160	7,124	6,777	6,614	6,387	6,412	6,076	6,207	6,114	5,981	5,930	5,868	5,727
Unemployment rate	5.3	5.3	5.0	4.8	4.7	4.7	4.4	4.5	4.4	4.3	4.3	4.2	4.1
Men, 16 years and over													
Civilian noninstitutional population ¹	96,651	97,324	97,560	97,839	98,139	98,326	98,595	98,894	99,216	99,280	99,565	99,867	100,177
Civilian labor force	72,407	73,002	73,179	73,314	73,518	73,675	73,802	74,004	74,320	74,395	74,334	74,547	74,779
Percent of population	74.9	75.0	75.0	74.9	74.9	74.9	74.9	74.8	74.9	74.9	74.7	74.6	74.6
Employed	68,688	69,208	69,598	69,839	70,114	70,313	70,633	70,695	71,125	71,289	71,248	71,501	71,761
Employment-population ratio ²	71.1	71.1	71.3	71.4	71.4	71.5	71.6	71.5	71.7	71.8	71.6	71.6	71.6
Agriculture	2,588	2,592	2,616	2,522	2,481	2,458	2,536	2,620	2,579	2,444	2,446	2,402	2,443
Nonagricultural industries	66,100	66,616	66,982	67,317	67,633	67,855	68,097	68,075	68,546	68,845	68,802	69,099	69,317
Unemployed	3,719	3,794	3,581	3,475	3,404	3,362	3,169	3,309	3,195	3,106	3,086	3,046	3,019
Unemployment rate	5.1	5.2	4.9	4.7	4.6	4.6	4.3	4.5	4.3	4.2	4.2	4.1	4.0
Not in labor force	24,244	24,322	24,382	24,525	24,621	24,651	24,793	24,891	24,896	24,884	25,231	25,320	25,397
Men, 20 years and over													
Civilian noninstitutional population ¹	88,950	89,536	89,758	89,979	90,244	90,456	90,634	90,898	91,171	91,176	91,386	91,682	91,978
Civilian labor force	68,385	68,891	69,094	69,242	69,397	69,479	69,618	69,720	70,013	70,082	70,029	70,245	70,419
Percent of population	76.9	76.9	77.0	77.0	76.9	76.8	76.8	76.7	76.8	76.9	76.6	76.6	76.6
Employed	65,394	65,830	66,225	66,475	66,618	66,802	67,099	67,117	67,519	67,642	67,559	67,805	68,044
Employment-population ratio ²	73.5	73.5	73.8	73.9	73.8	73.9	74.0	73.8	74.1	74.2	73.9	74.0	74.0
Agriculture	2,381	2,371	2,402	2,343	2,307	2,272	2,353	2,397	2,361	2,258	2,258	2,227	2,232
Nonagricultural industries	63,013	63,459	63,822	64,132	64,311	64,530	64,746	64,720	65,158	65,384	65,301	65,577	65,812
Unemployed	2,990	3,061	2,869	2,767	2,780	2,677	2,519	2,603	2,494	2,440	2,470	2,440	2,375
Unemployment rate	4.4	4.4	4.2	4.0	4.0	3.9	3.6	3.7	3.6	3.5	3.5	3.5	3.4
Not in labor force	20,566	20,645	20,664	20,738	20,846	20,977	21,016	21,178	21,158	21,094	21,357	21,437	21,559
Women, 16 years and over													
Civilian noninstitutional population ¹	104,807	105,072	105,275	105,528	105,797	106,069	106,310	106,588	106,882	107,596	107,866	108,177	108,484
Civilian labor force	62,562	62,675	62,928	63,227	63,317	63,599	63,529	63,728	64,001	64,662	64,810	64,848	65,100
Percent of population	59.7	59.6	59.8	59.9	59.8	60.0	59.8	59.8	59.9	60.1	60.1	59.9	60.0
Employed	59,121	59,345	59,733	60,088	60,334	60,548	60,622	60,831	61,083	61,788	61,966	62,025	62,392
Employment-population ratio ²	56.4	56.5	56.7	56.9	57.0	57.1	57.0	57.1	57.2	57.4	57.4	57.3	57.5
Agriculture	828	821	817	871	879	831	808	849	810	861	874	829	832
Nonagricultural industries	58,292	58,524	58,915	59,217	59,455	59,717	59,814	59,982	60,273	60,926	61,092	61,197	61,560
Unemployed	3,441	3,330	3,196	3,139	2,983	3,051	2,907	2,898	2,918	2,875	2,844	2,822	2,708
Unemployment rate	5.5	5.3	5.1	5.0	4.7	4.8	4.6	4.5	4.6	4.4	4.4	4.4	4.2
Not in labor force	42,245	42,397	42,347	42,300	42,480	42,470	42,781	42,860	42,880	42,934	43,057	43,329	43,383
Women, 20 years and over													
Civilian noninstitutional population ¹	97,371	97,577	97,762	98,000	98,219	98,475	98,662	98,891	99,118	99,755	100,021	100,291	100,566
Civilian labor force	58,675	58,830	59,088	59,390	59,484	59,608	59,528	59,694	59,979	60,612	60,820	60,872	61,054
Percent of population	60.3	60.3	60.4	60.6	60.6	60.5	60.3	60.5	60.8	60.8	60.8	60.7	60.7
Employed	55,817	56,106	56,463	56,840	57,045	57,055	57,145	57,321	57,591	58,283	58,489	58,585	58,865
Employment-population ratio ²	57.3	57.5	57.8	58.0	58.1	57.9	57.9	58.0	58.1	58.4	58.5	58.4	58.5
Agriculture	783	768	772	823	830	771	745	793	762	815	825	785	786
Nonagricultural industries	55,034	55,338	55,691	56,017	56,215	56,285	56,400	56,528	56,829	57,468	57,664	57,800	58,079
Unemployed	2,858	2,724	2,625	2,551	2,439	2,552	2,383	2,373	2,388	2,329	2,332	2,287	2,188
Unemployment rate	4.9	4.6	4.4	4.3	4.1	4.3	4.0	4.0	4.0	3.8	3.8	3.8	3.6
Not in labor force	38,696	38,747	38,674	38,610	38,735	38,867	39,134	39,197	39,139	39,143	39,200	39,419	39,512
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	15,136	15,283	15,315	15,387	15,473	15,464	15,609	15,694	15,809	15,945	16,025	16,071	16,117
Civilian labor force	7,908	7,956	7,925	7,909	7,954	8,187	8,186	8,319	8,329	8,363	8,295	8,277	8,407
Percent of population	52.2	52.1	51.7	51.4	51.4	52.9	52.4	53.0	52.7	52.5	51.8	51.5	52.2
Employed	6,597	6,617	6,643	6,613	6,785	7,004	7,012	7,088	7,098	7,151	7,166	7,137	7,243
Employment-population ratio ²	43.6	43.3	43.4	43.0	43.9	45.3	44.9	45.2	44.9	44.8	44.7	44.4	44.9
Agriculture	252	274	259	228	222	246	246	278	265	232	237	218	258
Nonagricultural industries	6,345	6,343	6,384	6,385	6,563	6,757	6,766	6,810	6,832	6,919	6,929	6,919	6,986
Unemployed	1,311	1,339	1,282	1,296	1,168	1,183	1,174	1,231	1,232	1,212	1,128	1,141	1,164
Unemployment rate	16.6	16.8	16.2	16.4	14.7	14.5	14.3	14.8	14.8	14.5	13.6	13.8	13.8
Not in labor force	7,228	7,328	7,390	7,478	7,520	7,277	7,423	7,375	7,479	7,582	7,731	7,794	7,710

¹ The population figures are not adjusted for seasonal variation.

² Employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the seasonally adjusted data shown in tables D-1 through D-11 will not necessarily add to totals because of the independent seasonal

adjustment of the various series. Beginning in January 1999, data reflect revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-2. 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	1996	1997				1998				1999				
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
WHITE														
Civilian noninstitutional population ¹	168,918	169,499	169,785	170,149	170,540	170,915	171,262	171,657	172,079	172,494	172,862	173,280	173,705	
Civilian labor force	113,874	114,288	114,597	114,814	115,041	115,154	115,166	115,485	115,850	116,349	116,352	116,535	116,788	
Percent of population	67.4	67.4	67.5	67.5	67.5	67.4	67.2	67.3	67.3	67.5	67.3	67.3	67.2	
Employed	108,673	109,173	109,789	109,996	110,491	110,554	110,787	111,012	111,390	112,008	111,966	112,268	112,703	
Employment-population ratio ²	64.3	64.4	64.7	64.6	64.8	64.7	64.7	64.7	64.7	64.9	64.8	64.8	64.9	
Unemployed	5,201	5,115	4,808	4,818	4,550	4,600	4,379	4,473	4,459	4,341	4,385	4,267	4,085	
Unemployment rate	4.6	4.5	4.2	4.2	4.0	4.0	3.8	3.9	3.8	3.7	3.8	3.7	3.5	
Men, 20 years and over														
Civilian labor force	58,612	58,973	59,076	59,126	59,293	59,225	59,316	59,457	59,678	59,686	59,625	59,857	59,809	
Percent of population	77.4	77.5	77.5	77.4	77.4	77.2	77.2	77.2	77.3	77.4	77.1	77.2	76.9	
Employed	56,367	56,685	56,988	57,052	57,235	57,252	57,452	57,518	57,790	57,838	57,768	58,021	58,110	
Employment-population ratio ²	74.5	74.5	74.8	74.7	74.7	74.6	74.7	74.7	74.8	75.0	74.7	74.9	74.8	
Unemployed	2,246	2,288	2,089	2,074	2,059	1,974	1,864	1,939	1,888	1,847	1,857	1,836	1,699	
Unemployment rate	3.8	3.9	3.5	3.5	3.5	3.3	3.1	3.3	3.2	3.1	3.1	3.1	2.8	
Women, 20 years and over														
Civilian labor force	48,564	48,624	48,800	48,958	49,005	48,993	48,947	49,022	49,155	49,635	49,716	49,653	49,853	
Percent of population	59.8	59.8	59.9	60.0	60.0	59.8	59.7	59.7	59.7	60.0	60.0	59.8	59.9	
Employed	46,539	46,756	46,993	47,178	47,327	47,220	47,297	47,363	47,490	48,003	48,019	48,050	48,321	
Employment-population ratio ²	57.3	57.5	57.7	57.9	57.9	57.7	57.7	57.7	57.7	58.0	58.0	57.9	58.1	
Unemployed	2,025	1,869	1,807	1,780	1,678	1,773	1,650	1,659	1,665	1,632	1,698	1,603	1,532	
Unemployment rate	4.2	3.8	3.7	3.6	3.4	3.6	3.4	3.4	3.4	3.3	3.4	3.2	3.1	
Both sexes, 16 to 19 years														
Civilian labor force	6,697	6,691	6,720	6,729	6,743	6,935	6,903	7,006	7,017	7,029	7,011	7,025	7,127	
Percent of population	55.9	55.2	55.3	55.1	55.1	56.4	55.6	56.1	55.9	55.6	55.3	55.2	55.9	
Employed	5,767	5,732	5,808	5,765	5,930	6,082	6,037	6,131	6,110	6,167	6,180	6,197	6,272	
Employment-population ratio ²	48.1	47.3	47.8	47.2	48.4	49.4	48.7	49.1	48.7	48.8	48.7	48.7	49.2	
Unemployed	930	959	912	964	814	854	865	875	906	861	831	829	854	
Unemployment rate	13.9	14.3	13.6	14.3	12.1	12.3	12.5	12.5	12.9	12.3	11.9	11.8	12.0	
Men	15.3	14.9	14.5	15.0	12.7	14.5	13.9	14.1	13.9	13.1	12.3	12.3	12.7	
Women	12.4	13.7	12.6	13.6	11.3	10.0	11.1	10.7	11.8	11.4	11.4	11.3	11.2	
BLACK														
Civilian noninstitutional population ¹	23,761	23,871	23,950	24,043	24,149	24,227	24,319	24,419	24,529	24,697	24,799	24,906	25,018	
Civilian labor force	15,310	15,391	15,418	15,667	15,635	15,854	15,895	15,995	16,171	16,273	16,295	16,387	16,503	
Percent of population	64.4	64.5	64.4	65.2	64.7	65.4	65.4	65.5	65.9	65.9	65.7	65.8	66.0	
Employed	13,683	13,747	13,816	14,186	14,127	14,373	14,475	14,543	14,829	14,968	15,044	15,041	15,172	
Employment-population ratio ²	57.6	57.6	57.7	59.0	58.5	59.3	59.5	59.6	60.5	60.6	60.7	60.4	60.6	
Unemployed	1,626	1,644	1,602	1,481	1,508	1,481	1,420	1,452	1,343	1,304	1,251	1,346	1,332	
Unemployment rate	10.6	10.7	10.4	9.5	9.6	9.3	8.9	9.1	8.3	8.0	7.7	8.2	8.1	
Men, 20 years and over														
Civilian labor force	6,847	6,815	6,862	7,004	6,951	7,008	7,049	7,051	7,097	7,139	7,151	7,163	7,277	
Percent of population	72.3	71.6	71.9	73.0	72.1	72.5	72.7	72.4	72.5	72.5	72.2	72.0	72.8	
Employed	6,229	6,201	6,255	6,453	6,390	6,454	6,537	6,507	6,619	6,693	6,693	6,673	6,750	
Employment-population ratio ²	65.7	65.2	65.5	67.2	66.3	66.8	67.4	66.8	67.6	67.9	67.6	67.1	67.5	
Unemployed	618	614	607	551	560	553	512	543	478	447	458	490	527	
Unemployment rate	9.0	9.0	8.9	7.9	8.1	7.9	7.3	7.7	6.7	6.3	6.4	6.8	7.2	
Women, 20 years and over														
Civilian labor force	7,537	7,606	7,647	7,749	7,744	7,882	7,830	7,903	8,031	8,124	8,207	8,289	8,272	
Percent of population	63.4	63.6	63.8	64.4	64.1	64.9	64.3	64.7	65.4	65.7	66.1	66.4	66.0	
Employed	6,848	6,891	6,962	7,100	7,101	7,236	7,190	7,292	7,443	7,559	7,657	7,701	7,736	
Employment-population ratio ²	57.6	57.6	58.1	59.0	58.7	59.6	59.0	59.7	60.6	61.1	61.6	61.7	61.7	
Unemployed	689	715	685	649	643	646	640	611	588	565	550	589	536	
Unemployment rate	9.1	9.4	9.0	8.4	8.3	8.2	8.2	7.7	7.3	7.0	6.7	7.1	6.5	

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-2. 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	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	926	970	909	913	940	964	1,017	1,041	1,043	1,009	938	935	954
Percent of population	38.7	40.3	37.7	37.9	38.9	39.8	41.7	42.4	42.4	40.8	37.8	37.6	38.5
Employed	606	655	600	633	636	683	749	744	767	716	695	667	686
Employment-population ratio ²	25.4	27.2	24.8	26.2	26.3	28.2	30.7	30.3	31.2	29.0	28.0	26.8	27.6
Unemployed	320	315	309	281	304	281	268	297	276	293	243	268	268
Unemployment rate	34.5	32.5	34.0	30.7	32.4	29.2	26.4	28.6	26.5	29.0	25.9	28.6	28.1
Men	38.7	38.9	38.8	35.1	32.8	30.8	27.1	30.8	31.5	32.3	29.6	30.2	31.3
Women	30.6	26.6	29.3	26.9	32.0	27.7	25.8	26.3	21.7	25.7	22.5	27.2	25.0
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	19,452	20,067	20,236	20,408	20,574	20,797	20,975	21,160	21,347	21,355	21,549	21,752	21,945
Civilian labor force	13,160	13,642	13,672	13,886	13,980	14,105	14,346	14,358	14,470	14,503	14,571	14,698	14,893
Percent of population	67.7	68.0	67.6	68.0	67.9	67.8	68.4	67.9	67.8	67.9	67.6	67.6	67.9
Employed	12,112	12,505	12,606	12,851	12,953	13,106	13,345	13,318	13,406	13,561	13,590	13,750	13,984
Employment-population ratio ²	62.3	62.3	62.3	63.0	63.0	63.0	63.6	62.9	62.8	63.5	63.1	63.2	63.7
Unemployed	1,048	1,138	1,066	1,036	1,027	998	1,001	1,040	1,064	943	981	948	909
Unemployment rate	8.0	8.3	7.8	7.5	7.3	7.1	7.0	7.2	7.4	6.5	6.7	6.4	6.1

¹ The population figures are not adjusted for seasonal variation.

² 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. Beginning in January 1999, data reflect revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-3. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, seasonally adjusted

(Numbers in thousands)

Educational attainment	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Less than a high school diploma													
Civilian noninstitutional population ¹	29,859	30,269	30,069	29,318	29,372	29,487	29,878	29,174	28,964	28,485	28,268	28,389	28,206
Civilian labor force	12,442	12,609	12,599	12,544	12,489	12,552	12,775	12,519	12,386	12,199	11,956	12,182	12,096
Percent of population	41.7	41.7	41.9	42.8	42.5	42.6	42.8	42.9	42.8	42.8	42.3	42.9	42.9
Employed	11,427	11,512	11,550	11,571	11,549	11,657	11,867	11,644	11,519	11,348	11,147	11,347	11,330
Employment-population ratio	38.3	38.0	38.4	39.5	39.3	39.5	39.7	39.9	39.8	39.8	39.4	40.0	40.2
Unemployed	1,015	1,097	1,049	973	940	895	908	876	867	851	809	835	766
Unemployment rate	8.2	8.7	8.3	7.8	7.5	7.1	7.1	7.0	7.0	7.0	6.8	6.9	6.3
High school graduates, no college²													
Civilian noninstitutional population ¹	56,834	57,247	57,424	57,557	57,467	57,636	57,545	57,564	57,351	57,448	57,946	57,292	57,551
Civilian labor force	37,371	37,714	37,742	37,910	37,718	37,728	37,319	37,382	37,435	37,467	37,418	37,052	37,371
Percent of population	65.8	65.9	65.7	65.9	65.6	65.5	64.9	64.9	65.3	65.2	64.6	64.7	64.9
Employed	35,653	36,016	36,124	36,333	36,213	36,172	35,864	35,899	35,990	36,147	36,052	35,745	36,130
Employment-population ratio	62.7	62.9	62.9	63.1	63.0	62.8	62.3	62.4	62.8	62.9	62.2	62.4	62.8
Unemployed	1,718	1,699	1,617	1,577	1,506	1,556	1,455	1,483	1,444	1,320	1,366	1,307	1,241
Unemployment rate	4.6	4.5	4.3	4.2	4.0	4.1	3.9	4.0	3.9	3.5	3.7	3.5	3.3
Less than a bachelor's degree³													
Civilian noninstitutional population ¹	41,876	41,506	41,641	42,266	42,372	42,186	42,069	41,968	42,819	43,365	42,860	43,231	43,975
Civilian labor force	31,240	31,136	31,254	31,514	31,457	31,334	31,359	31,259	31,693	32,122	31,983	32,042	32,306
Percent of population	74.6	75.0	75.1	74.6	74.2	74.3	74.5	74.5	74.0	74.1	74.6	74.1	73.5
Employed	30,088	30,044	30,252	30,508	30,474	30,344	30,446	30,346	30,772	31,184	31,100	31,101	31,453
Employment-population ratio	71.8	72.4	72.6	72.2	71.9	71.9	72.4	72.3	71.9	71.9	72.6	71.9	71.5
Unemployed	1,152	1,092	1,003	1,005	983	990	913	913	921	938	883	942	853
Unemployment rate	3.7	3.5	3.2	3.2	3.1	3.2	2.9	2.9	2.9	2.9	2.8	2.9	2.6
College graduates													
Civilian noninstitutional population ¹	40,408	40,667	40,987	41,391	41,752	42,099	42,250	43,470	43,471	43,775	44,398	45,070	44,724
Civilian labor force	32,580	32,729	33,066	33,216	33,589	33,825	34,064	34,681	34,787	35,095	35,634	35,862	35,603
Percent of population	80.6	80.5	80.7	80.2	80.4	80.3	80.6	79.8	80.0	80.2	80.3	79.6	79.6
Employed	31,846	32,054	32,386	32,512	32,982	33,195	33,492	34,084	34,133	34,445	34,941	35,248	34,982
Employment-population ratio	78.8	78.8	79.0	78.5	79.0	78.8	79.3	78.4	78.5	78.7	78.7	78.2	78.2
Unemployed	734	675	680	704	608	630	572	597	654	650	692	614	621
Unemployment rate	2.3	2.1	2.1	2.1	1.8	1.9	1.7	1.7	1.9	1.9	1.9	1.7	1.7

¹ The population figures are not adjusted for seasonal variation.

² Includes high school diploma or equivalent.

³ Includes the categories, some college, no degree; and associate degree.

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-4. Employed and unemployed full- and part-time workers by sex and age, seasonally adjusted

(Numbers in thousands)

Full- and part-time status, sex, and age	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
EMPLOYED													
Full-time workers	104,708	105,143	106,088	106,915	107,213	107,548	107,942	108,346	108,981	109,930	109,989	110,090	111,222
Men, 16 years and over	61,332	61,685	62,162	62,478	62,711	62,765	63,113	63,233	63,647	63,919	63,732	63,864	64,207
Men, 20 years and over	60,102	60,428	60,877	61,204	61,385	61,473	61,767	61,877	62,233	62,537	62,315	62,427	62,782
Women, 16 years and over	43,376	43,443	43,921	44,456	44,489	44,732	44,815	45,188	45,326	45,947	46,254	46,302	46,992
Women, 20 years and over	42,514	42,564	43,084	43,543	43,583	43,763	43,866	44,125	44,431	45,057	45,286	45,329	45,941
Both sexes, 16 to 19 years	2,092	2,150	2,127	2,168	2,245	2,312	2,309	2,344	2,318	2,336	2,388	2,334	2,499
Part-time workers	23,153	23,384	23,218	22,995	23,305	23,346	23,309	23,106	23,281	23,203	23,209	23,343	23,001
Men, 16 years and over	7,389	7,493	7,421	7,366	7,432	7,541	7,515	7,468	7,493	7,370	7,515	7,618	7,559
Men, 20 years and over	5,318	5,379	5,327	5,283	5,247	5,330	5,319	5,241	5,289	5,132	5,236	5,379	5,254
Women, 16 years and over	15,757	15,881	15,798	15,654	15,865	15,791	15,790	15,667	15,784	15,814	15,691	15,741	15,437
Women, 20 years and over	13,325	13,534	13,369	13,288	13,490	13,286	13,275	13,181	13,194	13,217	13,200	13,228	12,964
Both sexes, 16 to 19 years	4,510	4,470	4,522	4,424	4,568	4,730	4,716	4,685	4,798	4,853	4,773	4,736	4,782
UNEMPLOYED													
Looking for full-time work	5,767	5,692	5,450	5,269	5,117	5,072	4,867	4,903	4,801	4,746	4,694	4,662	4,563
Men, 16 years and over	3,176	3,185	3,039	2,915	2,892	2,722	2,683	2,765	2,643	2,520	2,558	2,571	2,536
Men, 20 years and over	2,771	2,796	2,646	2,526	2,558	2,449	2,323	2,383	2,286	2,242	2,240	2,235	2,161
Women, 16 years and over	2,580	2,502	2,428	2,366	2,240	2,303	2,214	2,141	2,185	2,152	2,169	2,099	2,067
Women, 20 years and over	2,311	2,214	2,147	2,097	1,956	2,066	1,946	1,922	1,934	1,906	1,929	1,864	1,787
Both sexes, 16 to 19 years	685	681	657	646	602	557	599	598	581	597	525	562	615
Looking for part-time work	1,404	1,427	1,342	1,325	1,277	1,337	1,224	1,288	1,319	1,226	1,257	1,192	1,171
Men, 16 years and over	553	588	574	569	525	578	528	555	574	502	571	490	507
Men, 20 years and over	229	261	229	230	227	225	201	212	213	195	239	200	217
Women, 16 years and over	840	837	785	752	742	756	719	726	733	724	704	693	650
Women, 20 years and over	535	513	490	451	469	494	449	448	441	426	415	417	389
Both sexes, 16 to 19 years	640	653	623	645	581	618	573	628	666	604	603	576	565
UNEMPLOYMENT RATES¹													
Full-time workers	5.2	5.1	4.9	4.7	4.6	4.5	4.3	4.3	4.2	4.1	4.1	4.1	3.9
Men, 16 years and over	4.9	4.9	4.7	4.5	4.4	4.2	4.1	4.2	4.0	3.8	3.9	3.9	3.8
Men, 20 years and over	4.4	4.4	4.2	4.0	4.0	3.8	3.6	3.7	3.5	3.5	3.5	3.5	3.3
Women, 16 years and over	5.6	5.4	5.2	5.1	4.8	4.9	4.7	4.5	4.6	4.5	4.5	4.3	4.2
Women, 20 years and over	5.2	4.9	4.7	4.6	4.3	4.5	4.2	4.2	4.2	4.1	4.1	3.9	3.7
Both sexes, 16 to 19 years	24.7	24.1	23.6	23.0	21.1	19.4	20.6	20.3	20.0	20.4	18.0	19.4	19.7
Part-time workers	5.7	5.8	5.5	5.4	5.2	5.4	5.0	5.3	5.4	5.0	5.1	4.9	4.8
Men, 16 years and over	7.0	7.3	7.2	7.2	6.6	7.1	6.6	6.9	7.1	6.4	7.1	6.0	6.3
Men, 20 years and over	4.1	4.6	4.1	4.2	4.1	4.1	3.6	3.9	3.9	3.7	4.4	3.6	4.0
Women, 16 years and over	5.1	5.0	4.7	4.6	4.5	4.6	4.4	4.4	4.4	4.4	4.3	4.2	4.0
Women, 20 years and over	3.9	3.7	3.5	3.3	3.4	3.6	3.3	3.3	3.2	3.1	3.0	3.1	2.9
Both sexes, 16 to 19 years	12.4	12.7	12.1	12.7	11.3	11.6	10.8	11.8	12.2	11.1	11.2	10.8	10.6

¹ These rates reflect a refined definition of the full- and part-time labor force and differ from the rates published elsewhere in this publication prior to 1994.

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-5. Employed persons by marital status, occupation, class of worker, and part-time status, seasonally adjusted

(In thousands)

Category	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
MARITAL STATUS													
Total	127,809	128,553	129,330	129,927	130,448	130,861	131,256	131,526	132,208	133,077	133,214	133,526	134,153
Married men, spouse present	42,517	42,572	42,503	42,637	42,838	42,854	42,722	42,930	43,171	43,227	43,162	43,362	43,254
Married women, spouse present	32,512	32,668	32,556	32,895	32,896	32,816	32,834	32,795	33,037	33,277	33,495	33,389	33,639
Women who maintain families	7,467	7,610	7,831	7,870	7,784	7,820	7,892	7,921	7,979	8,111	8,063	8,306	8,433
OCCUPATION													
Managerial and professional specialty ..	37,121	37,562	37,483	37,674	38,017	38,328	38,650	39,089	39,676	39,849	40,588	40,802	40,627
Technical, sales, and administrative support	37,929	38,065	38,195	38,415	38,569	38,467	38,496	38,702	38,429	38,912	38,844	38,727	39,206
Service occupations	17,306	17,214	17,403	17,679	17,849	17,894	17,710	17,768	17,979	18,051	17,987	17,947	17,678
Precision production, craft, and repair ...	13,677	13,942	14,211	14,184	14,184	14,347	14,625	14,279	14,407	14,639	14,378	14,471	14,893
Operators, fabricators, and laborers	18,245	18,236	18,526	18,463	18,362	18,441	18,329	18,072	18,179	18,225	17,957	18,112	18,372
Farming, forestry, and fishing	3,501	3,529	3,562	3,469	3,455	3,408	3,483	3,565	3,528	3,449	3,475	3,399	3,380
CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,864	1,922	1,953	1,860	1,825	1,919	1,932	2,091	2,042	1,922	1,928	1,926	2,001
Self-employed workers	1,493	1,437	1,421	1,480	1,488	1,331	1,373	1,343	1,312	1,353	1,357	1,252	1,231
Unpaid family workers	61	46	57	47	50	40	45	33	35	38	36	44	40
Nonagricultural industries:													
Wage and salary workers	115,189	115,705	116,709	117,490	118,049	118,554	118,843	118,939	119,774	120,894	121,081	121,307	122,015
Private industries	96,975	97,588	98,661	99,293	99,883	100,311	100,539	100,606	101,123	102,098	102,229	102,232	103,122
Private households	967	918	908	915	920	1,010	979	911	953	894	944	951	944
Other industries	96,008	96,670	97,753	98,378	98,963	99,300	99,560	99,695	100,170	101,204	101,285	101,281	102,179
Government	18,213	18,118	18,048	18,198	18,166	18,243	18,304	18,333	18,651	18,797	18,852	19,075	18,893
Self-employed workers	9,053	9,299	9,105	8,893	8,926	8,911	9,019	9,000	8,911	8,768	8,789	8,870	8,727
Unpaid family workers	145	127	133	120	98	106	106	93	109	115	71	90	102
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,259	4,180	4,134	4,023	3,951	3,877	3,749	3,586	3,424	3,474	3,393	3,293	3,258
Slack work or business conditions	2,275	2,352	2,342	2,201	2,248	2,174	2,125	2,094	1,972	2,018	1,978	1,933	1,936
Could only find part-time work	1,650	1,509	1,474	1,499	1,393	1,392	1,293	1,190	1,153	1,145	1,093	1,060	1,017
Part time for noneconomic reasons	17,932	18,158	18,175	17,961	18,275	18,483	18,469	18,583	18,679	18,629	18,720	19,005	18,689
Nonagricultural industries:													
Part time for economic reasons	4,087	3,987	3,931	3,849	3,761	3,706	3,602	3,404	3,265	3,316	3,221	3,127	3,082
Slack work or business conditions	2,160	2,236	2,205	2,089	2,137	2,060	2,042	1,989	1,882	1,925	1,864	1,823	1,822
Could only find part-time work	1,624	1,475	1,434	1,470	1,360	1,365	1,258	1,158	1,127	1,109	1,069	1,046	998
Part time for noneconomic reasons	17,305	17,543	17,607	17,403	17,662	17,885	17,888	17,988	18,136	18,053	18,134	18,464	18,131

¹ Persons at work excludes employed persons who were absent from their jobs during the entire reference week for reasons such as vacation, illness, or industrial dispute. Part time for noneconomic reasons excludes persons who usually work full time but worked only 1 to 34 hours during the reference week for reasons such

as holidays, illness, and bad weather.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-6. Employed persons by age and sex, seasonally adjusted

(In thousands)

Age and sex	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	127,809	128,553	129,330	129,927	130,448	130,861	131,256	131,526	132,208	133,077	133,214	133,526	134,153
16 to 24 years	18,789	18,918	19,025	19,023	19,224	19,501	19,579	19,566	19,789	19,966	19,967	20,084	20,249
16 to 19 years	6,597	6,617	6,643	6,613	6,785	7,004	7,012	7,088	7,098	7,151	7,166	7,137	7,243
16 to 17 years	2,701	2,624	2,647	2,630	2,697	2,789	2,749	2,766	2,748	2,782	2,785	2,795	2,811
18 to 19 years	3,892	3,973	4,008	3,979	4,093	4,203	4,279	4,326	4,349	4,362	4,391	4,332	4,431
20 to 24 years	12,192	12,301	12,382	12,410	12,439	12,497	12,567	12,478	12,692	12,815	12,801	12,947	13,006
25 years and over	109,003	109,637	110,330	110,905	111,203	111,368	111,700	111,956	112,393	113,124	113,264	113,438	113,879
25 to 54 years	93,422	93,803	94,313	94,908	94,839	94,996	95,137	95,340	95,575	96,177	96,039	96,105	96,600
55 years and over	15,585	15,859	15,973	16,016	16,373	16,391	16,514	16,640	16,840	16,959	17,170	17,354	17,304
Men, 16 years and over	68,688	69,208	69,598	69,839	70,114	70,313	70,633	70,695	71,125	71,289	71,248	71,501	71,761
16 to 24 years	9,750	9,897	9,982	9,936	9,997	10,119	10,197	10,159	10,308	10,365	10,309	10,461	10,533
16 to 19 years	3,294	3,378	3,373	3,364	3,496	3,511	3,534	3,578	3,606	3,647	3,689	3,696	3,717
16 to 17 years	1,339	1,331	1,345	1,352	1,397	1,422	1,400	1,391	1,380	1,420	1,434	1,444	1,449
18 to 19 years	1,949	2,036	2,047	1,999	2,100	2,087	2,154	2,182	2,218	2,224	2,273	2,237	2,260
20 to 24 years	6,456	6,519	6,609	6,572	6,501	6,608	6,662	6,581	6,703	6,718	6,619	6,764	6,816
25 years and over	58,925	59,303	59,626	59,921	60,099	60,189	60,450	60,548	60,798	60,924	60,951	61,052	61,208
25 to 54 years	50,235	50,460	50,674	50,954	51,010	51,144	51,249	51,252	51,460	51,509	51,398	51,439	51,643
55 years and over	8,715	8,849	8,928	8,961	9,113	9,054	9,171	9,299	9,364	9,426	9,517	9,614	9,588
Women, 16 years and over	59,121	59,345	59,733	60,088	60,334	60,548	60,622	60,831	61,083	61,788	61,966	62,025	62,392
16 to 24 years	9,039	9,020	9,043	9,086	9,227	9,382	9,382	9,407	9,481	9,601	9,659	9,623	9,716
16 to 19 years	3,304	3,239	3,270	3,248	3,289	3,493	3,478	3,510	3,492	3,504	3,477	3,440	3,527
16 to 17 years	1,362	1,293	1,302	1,278	1,300	1,367	1,349	1,376	1,368	1,362	1,351	1,351	1,363
18 to 19 years	1,944	1,937	1,961	1,981	1,993	2,116	2,124	2,144	2,131	2,138	2,118	2,095	2,171
20 to 24 years	5,736	5,782	5,773	5,838	5,938	5,889	5,904	5,897	5,989	6,097	6,182	6,183	6,190
25 years and over	50,078	50,334	50,703	50,984	51,103	51,178	51,250	51,408	51,595	52,200	52,313	52,386	52,671
25 to 54 years	43,187	43,343	43,639	43,953	43,829	43,852	43,889	44,088	44,115	44,668	44,641	44,666	44,957
55 years and over	6,870	7,010	7,045	7,054	7,259	7,337	7,343	7,340	7,475	7,533	7,653	7,740	7,716

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

D-7. Unemployed persons by age and sex, seasonally adjusted

(In thousands)

Age and sex	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	7,160	7,124	6,777	6,614	6,387	6,412	6,076	6,207	6,114	5,981	5,930	5,868	5,727
16 to 24 years	2,519	2,556	2,439	2,374	2,332	2,348	2,228	2,348	2,205	2,240	2,171	2,175	2,235
16 to 19 years	1,311	1,339	1,282	1,296	1,168	1,183	1,174	1,231	1,232	1,212	1,128	1,141	1,164
16 to 17 years	593	602	589	598	566	589	550	568	584	559	544	525	547
18 to 19 years	724	727	696	699	608	584	627	667	649	643	587	621	618
20 to 24 years	1,208	1,217	1,157	1,078	1,163	1,165	1,054	1,118	973	1,028	1,043	1,034	1,071
25 years and over	4,633	4,561	4,337	4,260	4,048	4,067	3,842	3,869	3,899	3,741	3,754	3,701	3,492
25 to 54 years	4,120	4,064	3,833	3,755	3,575	3,617	3,406	3,400	3,394	3,249	3,247	3,208	3,026
55 years and over	511	512	500	502	468	460	432	464	501	501	505	486	469
Men, 16 years and over	3,719	3,794	3,581	3,475	3,404	3,362	3,169	3,309	3,195	3,106	3,086	3,046	3,019
16 to 24 years	1,360	1,396	1,309	1,318	1,294	1,303	1,220	1,320	1,220	1,198	1,197	1,166	1,223
16 to 19 years	728	733	712	708	624	685	650	706	701	666	616	605	644
16 to 17 years	325	338	326	313	306	338	308	331	344	302	306	281	290
18 to 19 years	406	388	393	392	319	340	350	374	355	359	317	324	352
20 to 24 years	632	663	597	611	670	618	570	614	519	532	581	561	579
25 years and over	2,356	2,387	2,275	2,170	2,107	2,053	1,948	2,000	1,972	1,900	1,887	1,890	1,796
25 to 54 years	2,069	2,094	1,991	1,896	1,819	1,778	1,699	1,735	1,682	1,626	1,620	1,602	1,534
55 years and over	280	297	285	277	285	274	249	270	286	271	269	291	259
Women, 16 years and over	3,441	3,330	3,196	3,139	2,983	3,051	2,907	2,898	2,918	2,875	2,844	2,822	2,708
16 to 24 years	1,159	1,160	1,130	1,056	1,038	1,046	1,008	1,028	985	1,042	974	1,009	1,012
16 to 19 years	583	606	570	589	544	498	524	524	531	546	512	535	520
16 to 17 years	268	265	263	285	259	251	242	236	240	257	238	244	257
18 to 19 years	318	339	303	307	289	244	277	293	294	284	270	297	266
20 to 24 years	576	554	560	467	494	547	484	504	454	496	462	474	492
25 years and over	2,277	2,174	2,062	2,090	1,941	2,014	1,894	1,869	1,927	1,841	1,867	1,811	1,696
25 to 54 years	2,051	1,970	1,842	1,858	1,756	1,839	1,707	1,666	1,712	1,623	1,628	1,605	1,492
55 years and over	230	215	216	225	183	186	183	194	215	230	236	194	211

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-8. Unemployment rates by age and sex, seasonally adjusted

(Percent)

Age and sex	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	5.3	5.3	5.0	4.8	4.7	4.7	4.4	4.5	4.4	4.3	4.3	4.2	4.1
16 to 24 years	11.8	11.9	11.4	11.1	10.8	10.7	10.2	10.7	10.0	10.1	9.8	9.8	9.9
16 to 19 years	16.6	16.8	16.2	16.4	14.7	14.5	14.3	14.8	14.8	14.5	13.6	13.8	13.8
16 to 17 years	18.0	18.7	18.2	18.5	17.3	17.4	16.7	17.0	17.5	16.7	16.3	15.8	16.3
18 to 19 years	15.7	15.5	14.8	14.9	12.9	12.2	12.8	13.4	13.0	12.8	11.8	12.5	12.2
20 to 24 years	9.0	9.0	8.5	8.0	8.6	8.5	7.7	8.2	7.1	7.4	7.5	7.4	7.6
25 years and over	4.1	4.0	3.8	3.7	3.5	3.5	3.3	3.3	3.4	3.2	3.2	3.2	3.0
25 to 54 years	4.2	4.2	3.9	3.8	3.6	3.7	3.5	3.4	3.4	3.3	3.3	3.2	3.0
55 years and over	3.2	3.1	3.0	3.0	2.8	2.7	2.5	2.7	2.9	2.9	2.9	2.7	2.6
Men, 16 years and over	5.1	5.2	4.9	4.7	4.6	4.6	4.3	4.5	4.3	4.2	4.2	4.1	4.0
16 to 24 years	12.2	12.4	11.6	11.7	11.5	11.4	10.7	11.5	10.6	10.4	10.4	10.0	10.4
16 to 19 years	18.1	17.8	17.4	17.4	15.1	16.3	15.5	16.5	16.3	15.4	14.3	14.1	14.8
16 to 17 years	19.5	20.2	19.5	18.8	18.0	19.2	18.0	19.2	20.0	17.6	17.6	16.3	16.7
18 to 19 years	17.2	16.0	16.1	16.4	13.2	14.0	14.0	14.6	13.8	13.9	12.3	12.7	13.5
20 to 24 years	8.9	9.2	8.3	8.5	9.3	8.6	7.9	8.5	7.2	7.3	8.1	7.7	7.8
25 years and over	3.8	3.9	3.7	3.5	3.4	3.3	3.1	3.2	3.1	3.0	3.0	3.0	2.9
25 to 54 years	4.0	4.0	3.8	3.6	3.4	3.4	3.2	3.3	3.2	3.1	3.1	3.0	2.9
55 years and over	3.1	3.2	3.1	3.0	3.0	2.9	2.6	2.8	3.0	2.8	2.8	2.9	2.6
Women, 16 years and over	5.5	5.3	5.1	5.0	4.7	4.8	4.6	4.5	4.6	4.4	4.4	4.4	4.2
16 to 24 years	11.4	11.4	11.1	10.4	10.1	10.0	9.7	9.9	9.4	9.8	9.2	9.5	9.4
16 to 19 years	15.0	15.8	14.9	15.3	14.2	12.5	13.1	13.0	13.2	13.5	12.8	13.5	12.9
16 to 17 years	16.4	17.0	16.8	18.2	16.6	15.5	15.2	14.7	14.9	15.9	15.0	15.3	15.9
18 to 19 years	14.0	14.9	13.4	13.4	12.7	10.3	11.5	12.0	12.1	11.7	11.3	12.4	10.9
20 to 24 years	9.1	8.7	8.8	7.4	7.7	8.5	7.6	7.9	7.0	7.5	6.9	7.1	7.4
25 years and over	4.3	4.1	3.9	3.9	3.7	3.8	3.6	3.5	3.6	3.4	3.4	3.3	3.1
25 to 54 years	4.5	4.3	4.1	4.1	3.9	4.0	3.7	3.6	3.7	3.5	3.5	3.5	3.2
55 years and over	3.2	3.0	3.0	3.1	2.5	2.5	2.4	2.6	2.8	3.0	3.0	2.4	2.7

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

D-9. Unemployment rates by occupation, industry, and selected demographic characteristics, seasonally adjusted

(Percent)

Category	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
CHARACTERISTIC													
Total	5.3	5.3	5.0	4.8	4.7	4.7	4.4	4.5	4.4	4.3	4.3	4.2	4.1
Men, 20 years and over	4.4	4.4	4.2	4.0	4.0	3.9	3.6	3.7	3.6	3.5	3.5	3.5	3.4
Women, 20 years and over	4.9	4.6	4.4	4.3	4.1	4.3	4.0	4.0	4.0	3.8	3.8	3.8	3.6
Both sexes, 16 to 19 years	16.6	16.8	16.2	16.4	14.7	14.5	14.3	14.8	14.8	14.5	13.6	13.8	13.8
White	4.6	4.5	4.2	4.2	4.0	4.0	3.8	3.9	3.8	3.7	3.8	3.7	3.5
Black and other	9.3	9.3	9.2	8.3	8.4	8.1	7.7	7.8	7.3	7.1	6.8	7.1	7.1
Black	10.6	10.7	10.4	9.5	9.6	9.3	8.9	9.1	8.3	8.0	7.7	8.2	8.1
Hispanic origin	8.0	8.3	7.8	7.5	7.3	7.1	7.0	7.2	7.4	6.5	6.7	6.4	6.1
Married men, spouse present	3.0	2.8	2.7	2.6	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.2	2.2
Married women, spouse present	3.7	3.3	3.2	3.1	2.9	3.1	2.8	2.9	2.8	2.8	2.7	2.7	2.5
Women who maintain families	8.6	8.8	7.9	7.8	7.9	7.6	7.3	7.1	6.7	6.5	6.5	6.4	6.1
OCCUPATION¹													
Managerial and professional specialty	2.3	2.1	2.0	2.0	1.8	1.9	1.7	1.8	1.9	1.9	2.0	1.8	1.8
Technical, sales, and administrative support	4.6	4.3	4.1	4.1	4.0	4.0	3.8	3.8	3.8	3.8	3.6	3.7	3.6
Precision production, craft, and repair	5.5	5.0	4.8	4.7	4.8	4.5	4.1	4.3	3.8	3.9	4.2	4.1	3.9
Operators, fabricators, and laborers	7.7	8.1	7.5	7.4	6.9	6.6	6.6	6.8	6.6	6.1	6.3	6.3	6.2
Farming, forestry, and fishing	7.4	7.2	7.0	6.9	7.2	6.6	6.1	6.8	6.6	7.3	7.3	6.1	6.1
INDUSTRY													
Nonagricultural private wage and salary workers ...	5.4	5.3	5.1	4.9	4.7	4.7	4.5	4.7	4.5	4.3	4.3	4.3	4.2
Goods-producing industries	6.0	5.7	5.4	5.2	4.9	4.9	4.6	4.9	4.6	4.6	4.6	4.7	4.4
Mining	5.7	4.1	2.9	4.0	4.0	3.1	2.8	3.4	3.6	6.3	6.4	5.6	4.5
Construction	9.8	9.5	8.7	8.8	8.5	8.2	7.4	7.6	6.8	7.2	7.3	7.1	6.3
Manufacturing	4.7	4.5	4.3	4.1	3.7	3.9	3.7	4.0	3.9	3.6	3.6	3.7	3.6
Durable goods	4.5	4.1	3.6	3.3	3.2	3.4	3.2	3.6	3.3	3.2	3.4	3.8	3.6
Nondurable goods	5.1	5.2	5.4	5.2	4.5	4.6	4.6	4.5	4.8	4.1	3.9	3.7	3.7
Service-producing industries	5.2	5.2	4.9	4.8	4.7	4.7	4.5	4.6	4.5	4.2	4.3	4.2	4.1
Transportation and public utilities	4.0	4.1	3.2	3.6	3.2	3.5	3.3	3.4	3.2	2.9	3.0	3.1	3.1
Wholesale and retail trade	6.2	6.4	6.3	6.1	6.0	5.7	5.4	5.6	5.4	5.3	5.3	5.1	5.2
Finance, insurance, and real estate	2.9	3.2	3.1	3.1	2.6	2.6	2.2	2.4	2.7	2.3	2.6	2.3	2.2
Services	5.1	4.9	4.7	4.5	4.4	4.6	4.6	4.5	4.5	4.2	4.1	4.2	3.9
Government workers	3.0	2.9	2.5	2.6	2.4	2.5	2.1	2.3	2.2	2.2	2.4	2.1	2.1
Agricultural wage and salary workers	10.3	8.7	9.0	9.2	9.7	9.1	7.9	8.0	8.0	9.7	9.7	8.1	7.7

¹ Seasonally adjusted data for service occupations are not available because the seasonal component, which is small relative to the trend-cycle and/or irregular components, cannot be separated with sufficient precision.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-10. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reason	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
NUMBER OF UNEMPLOYED													
Job losers and persons who completed temporary jobs ..	3,215	3,193	3,063	2,930	2,924	2,894	2,781	2,817	2,787	2,692	2,681	2,624	2,471
On temporary layoff	970	973	952	850	923	896	796	905	857	850	852	870	816
Not on temporary layoff	2,245	2,221	2,111	2,080	2,001	1,998	1,985	1,913	1,930	1,842	1,829	1,754	1,655
Job leavers	845	818	794	845	714	778	698	749	710	751	807	773	808
Reentrants	2,520	2,508	2,384	2,246	2,207	2,208	2,094	2,130	2,093	2,035	2,037	1,971	1,976
New entrants	589	608	559	569	541	531	524	496	529	488	424	481	483
PERCENT DISTRIBUTION													
Job losers and persons who completed temporary jobs ..	44.8	44.8	45.0	44.5	45.8	45.1	45.6	45.5	45.5	45.1	45.1	44.9	43.1
On temporary layoff	13.5	13.6	14.0	12.9	14.4	14.0	13.1	14.6	14.0	14.2	14.3	14.9	14.2
Not on temporary layoff	31.3	31.2	31.0	31.6	31.3	31.2	32.6	30.9	31.5	30.9	30.7	30.0	28.8
Job leavers	11.8	11.5	11.7	12.8	11.2	12.1	11.5	12.1	11.6	12.6	13.6	13.2	14.1
Reentrants	35.2	35.2	35.1	34.1	34.6	34.4	34.3	34.4	34.2	34.1	34.2	33.7	34.4
New entrants	8.2	8.5	8.2	8.6	8.5	8.3	8.6	8.0	8.6	8.2	7.1	8.2	8.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers and persons who completed temporary jobs ..	2.4	2.4	2.3	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8
Job leavers	.6	.6	.6	.6	.5	.6	.5	.5	.5	.5	.6	.6	.6
Reentrants	1.9	1.8	1.8	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.4
New entrants	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.3	.3	.3

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

D-11. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Duration	1996	1997				1998				1999			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
NUMBER OF UNEMPLOYED													
Less than 5 weeks	2,675	2,630	2,517	2,470	2,522	2,657	2,598	2,608	2,642	2,501	2,594	2,607	2,589
5 to 14 weeks	2,317	2,296	2,149	2,098	1,982	1,936	1,992	1,971	1,912	1,940	1,825	1,794	1,755
15 weeks and over	2,193	2,138	2,115	2,065	1,905	1,798	1,533	1,620	1,587	1,499	1,542	1,462	1,408
15 to 26 weeks	1,029	1,015	1,047	988	915	838	701	765	745	761	795	745	712
27 weeks and over	1,164	1,123	1,068	1,077	990	961	832	854	843	738	748	717	695
Average (mean) duration, in weeks	15.9	15.8	15.5	16.1	15.8	15.2	14.5	14.1	14.1	13.6	13.6	13.2	13.0
Median duration, in weeks	7.9	7.9	8.1	8.1	7.6	7.0	6.5	6.7	6.5	6.8	6.3	6.0	6.1
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	37.2	37.2	37.1	37.2	39.4	41.6	42.4	42.1	43.0	42.1	43.5	44.5	45.0
5 to 14 weeks	32.2	32.5	31.7	31.6	30.9	30.3	32.5	31.8	31.1	32.7	30.6	30.6	30.5
15 weeks and over	30.5	30.3	31.2	31.1	29.7	28.1	25.0	26.1	25.8	25.2	25.9	24.9	24.5
15 to 26 weeks	14.3	14.4	15.4	14.9	14.3	13.1	11.4	12.3	12.1	12.8	13.3	12.7	12.4
27 weeks and over	16.2	15.9	15.7	16.2	15.4	15.0	13.6	13.8	13.7	12.4	12.5	12.2	12.1

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey. Data have been revised based on the experience

through December 1999. See the article in this issue for additional information.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-12. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
TOTAL								
Civilian noninstitutional population	206,098	208,660	172,079	173,705	24,529	25,018	21,347	21,945
Civilian labor force	138,280	139,866	115,801	116,771	16,190	16,523	14,459	14,881
Percent of population	67.1	67.0	67.3	67.2	66.0	66.0	67.7	67.8
Employed	132,578	134,534	111,646	112,975	14,929	15,270	13,442	14,012
Agriculture	3,270	3,153	3,063	2,978	141	102	731	727
Nonagricultural industries	129,308	131,381	108,583	109,997	14,788	15,168	12,711	13,285
Unemployed	5,702	5,332	4,155	3,797	1,261	1,254	1,018	869
Unemployment rate	4.1	3.8	3.6	3.3	7.8	7.6	7.0	5.8
Not in labor force	67,818	68,795	56,278	56,934	8,338	8,495	6,887	7,064
Men, 16 years and over								
Civilian noninstitutional population	99,216	100,177	83,680	84,252	11,002	11,221	10,876	10,850
Civilian labor force	74,127	74,600	63,145	63,344	7,606	7,756	8,655	8,654
Percent of population	74.7	74.5	75.5	75.2	69.1	69.1	79.6	79.8
Employed	71,135	71,774	60,902	61,320	7,004	7,113	8,124	8,204
Agriculture	2,491	2,353	2,322	2,210	118	88	665	640
Nonagricultural industries	68,644	69,421	58,580	59,110	6,885	7,025	7,459	7,565
Unemployed	2,992	2,826	2,243	2,025	603	643	531	449
Unemployment rate	4.0	3.8	3.6	3.2	7.9	8.3	6.1	5.2
Not in labor force	25,088	25,577	20,536	20,908	3,395	3,465	2,221	2,197
Men, 20 years and over								
Civilian noninstitutional population	91,171	91,978	77,241	77,739	9,794	10,002	9,700	9,649
Civilian labor force	70,022	70,434	59,663	59,805	7,131	7,309	8,078	8,052
Percent of population	76.8	76.6	77.2	76.9	72.8	73.1	83.3	83.4
Employed	67,674	68,197	57,892	58,213	6,669	6,798	7,655	7,711
Agriculture	2,318	2,186	2,156	2,048	113	86	624	604
Nonagricultural industries	65,355	66,011	55,736	56,165	6,556	6,712	7,031	7,107
Unemployed	2,348	2,236	1,771	1,592	462	511	423	341
Unemployment rate	3.4	3.2	3.0	2.7	6.5	7.0	5.2	4.2
Not in labor force	21,149	21,544	17,578	17,934	2,663	2,694	1,622	1,598
Women, 16 years and over								
Civilian noninstitutional population	106,882	108,484	88,399	89,452	13,527	13,797	10,471	11,095
Civilian labor force	64,152	65,266	52,657	53,427	8,584	8,767	5,804	6,227
Percent of population	60.0	60.2	59.6	59.7	63.5	63.5	55.4	56.1
Employed	61,443	62,760	50,744	51,655	7,926	8,157	5,317	5,808
Agriculture	779	800	741	768	23	14	65	88
Nonagricultural industries	60,663	61,960	50,003	50,887	7,903	8,143	5,252	5,720
Unemployed	2,710	2,506	1,913	1,772	658	611	487	420
Unemployment rate	4.2	3.8	3.6	3.3	7.7	7.0	8.4	6.7
Not in labor force	42,729	43,218	35,742	36,025	4,943	5,030	4,667	4,868
Women, 20 years and over								
Civilian noninstitutional population	99,118	100,566	82,287	83,228	12,276	12,535	9,412	9,967
Civilian labor force	60,296	61,386	49,443	50,156	8,064	8,306	5,358	5,777
Percent of population	60.8	61.0	60.1	60.3	65.7	66.3	56.9	58.0
Employed	58,065	59,348	47,882	48,723	7,513	7,805	4,982	5,445
Agriculture	742	765	705	734	22	14	62	84
Nonagricultural industries	57,322	58,582	47,177	47,989	7,491	7,791	4,921	5,361
Unemployed	2,231	2,038	1,561	1,433	551	501	375	332
Unemployment rate	3.7	3.3	3.2	2.9	6.8	6.0	7.0	5.7
Not in labor force	38,822	39,180	32,844	33,072	4,212	4,229	4,054	4,190
Both sexes, 16 to 19 years								
Civilian noninstitutional population	15,809	16,117	12,551	12,739	2,459	2,481	2,235	2,329
Civilian labor force	7,962	8,046	6,695	6,810	996	909	1,023	1,052
Percent of population	50.4	49.9	53.3	53.5	40.5	36.6	45.8	45.2
Employed	6,839	6,989	5,871	6,039	748	667	804	856
Agriculture	209	201	202	196	6	1	45	40
Nonagricultural industries	6,630	6,787	5,670	5,842	741	665	758	816
Unemployed	1,123	1,057	824	772	248	242	220	196
Unemployment rate	14.1	13.1	12.3	11.3	24.9	26.6	21.5	18.6
Not in labor force	7,846	8,071	5,856	5,929	1,463	1,572	1,211	1,277

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-13. Employment status of the Mexican, Puerto Rican, and Cuban-origin population by sex and age

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
TOTAL								
Civilian noninstitutional population	21,347	21,945	13,325	13,765	2,077	1,980	1,084	1,097
Civilian labor force	14,459	14,881	9,135	9,432	1,274	1,225	673	675
Percent of population	67.7	67.8	68.6	68.5	61.4	61.9	62.1	61.5
Employed	13,442	14,012	8,496	8,873	1,167	1,122	623	637
Agriculture	731	727	671	656	9	4	6	4
Nonagricultural industries	12,711	13,285	7,824	8,218	1,158	1,118	617	633
Unemployed	1,018	869	640	558	107	103	49	39
Unemployment rate	7.0	5.8	7.0	5.9	8.4	8.4	7.3	5.7
Not in labor force	6,887	7,064	4,189	4,333	802	755	411	422
Men, 16 years and over								
Civilian noninstitutional population	10,876	10,850	6,974	7,002	991	917	540	540
Civilian labor force	8,655	8,654	5,677	5,717	698	638	403	393
Percent of population	79.6	79.8	81.4	81.7	70.5	69.5	74.5	72.7
Employed	8,124	8,204	5,344	5,438	639	580	380	367
Agriculture	665	640	609	575	8	3	6	4
Nonagricultural industries	7,459	7,565	4,735	4,863	631	576	374	364
Unemployed	531	449	334	280	59	58	22	26
Unemployment rate	6.1	5.2	5.9	4.9	8.4	9.1	5.5	6.5
Not in labor force	2,221	2,197	1,296	1,284	293	279	138	148
Men, 20 years and over								
Civilian noninstitutional population	9,700	9,649	6,185	6,173	875	813	515	505
Civilian labor force	8,078	8,052	5,277	5,271	638	594	386	378
Percent of population	83.3	83.4	85.3	85.4	73.0	73.0	75.0	74.9
Employed	7,655	7,711	5,011	5,070	596	550	367	357
Agriculture	624	604	568	539	8	3	6	4
Nonagricultural industries	7,031	7,107	4,443	4,531	588	547	361	353
Unemployed	423	341	266	201	42	44	19	21
Unemployment rate	5.2	4.2	5.0	3.8	6.6	7.4	4.8	5.5
Not in labor force	1,622	1,598	907	902	236	219	129	126
Women, 16 years and over								
Civilian noninstitutional population	10,471	11,095	6,351	6,763	1,086	1,063	543	557
Civilian labor force	5,804	6,227	3,458	3,714	577	587	270	282
Percent of population	55.4	56.1	54.4	54.9	53.1	55.3	49.8	50.7
Employed	5,317	5,808	3,152	3,436	528	543	243	269
Agriculture	65	88	63	81	1	1	-	-
Nonagricultural industries	5,252	5,720	3,089	3,355	527	542	243	269
Unemployed	487	420	306	279	49	45	27	13
Unemployment rate	8.4	6.7	8.9	7.5	8.4	7.6	10.1	4.6
Not in labor force	4,667	4,868	2,893	3,049	510	475	273	275
Women, 20 years and over								
Civilian noninstitutional population	9,412	9,967	5,594	5,998	983	951	520	536
Civilian labor force	5,358	5,777	3,126	3,410	527	543	267	280
Percent of population	56.9	58.0	55.9	56.9	53.6	57.1	51.3	52.1
Employed	4,982	5,445	2,906	3,187	493	513	239	267
Agriculture	62	84	59	77	1	1	-	-
Nonagricultural industries	4,921	5,361	2,847	3,110	492	513	239	267
Unemployed	375	332	220	223	34	29	27	13
Unemployment rate	7.0	5.7	7.0	6.6	6.4	5.4	10.3	4.6
Not in labor force	4,054	4,190	2,469	2,587	456	408	253	257
Both sexes, 16 to 19 years								
Civilian noninstitutional population	2,235	2,329	1,546	1,594	220	216	49	56
Civilian labor force	1,023	1,052	733	750	109	89	20	18
Percent of population	45.8	45.2	47.4	47.1	49.7	41.1	(²)	(²)
Employed	804	856	579	617	77	59	17	13
Agriculture	45	40	45	40	-	-	-	-
Nonagricultural industries	758	816	534	577	77	59	17	13
Unemployed	220	196	154	134	32	30	3	5
Unemployment rate	21.5	18.6	21.0	17.8	29.2	33.6	(²)	(²)
Not in labor force	1,211	1,277	813	844	110	127	29	39

¹ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

² Data not shown where base is less than 60,000.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-14. Employed white, black, and Hispanic-origin workers by sex, occupation, class of worker, and full- or part-time status

(Numbers in thousands)

Category	Total		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
SEX								
Total (all civilian workers)	132,578	134,534	111,646	112,975	14,929	15,270	13,442	14,012
Men	71,135	71,774	60,902	61,320	7,004	7,113	8,124	8,204
Women	61,443	62,760	50,744	51,655	7,926	8,157	5,317	5,808
OCCUPATION								
Managerial and professional specialty	39,916	40,856	34,774	35,384	3,086	3,333	1,932	2,009
Executive, administrative, and managerial	19,496	19,700	17,228	17,310	1,471	1,542	1,076	1,066
Professional specialty	20,420	21,156	17,546	18,074	1,615	1,791	856	944
Technical, sales, and administrative support	38,547	39,325	32,431	32,976	4,420	4,486	3,141	3,264
Technicians and related support	4,163	4,442	3,455	3,676	465	475	282	266
Sales occupations	16,107	16,427	13,891	14,158	1,504	1,472	1,260	1,281
Administrative support, including clerical	18,276	18,456	15,086	15,142	2,451	2,540	1,600	1,717
Service occupations	17,838	17,525	13,723	13,415	3,258	3,175	2,706	2,714
Private household	861	828	700	661	134	125	272	237
Protective service	2,388	2,324	1,907	1,812	433	445	198	197
Service, except private household and protective	14,589	14,373	11,116	10,942	2,691	2,605	2,236	2,280
Precision production, craft, and repair	14,398	14,894	12,721	13,263	1,139	1,130	1,872	2,034
Mechanics and repairers	4,772	4,708	4,215	4,181	392	368	500	509
Construction trades	5,629	6,152	5,077	5,622	381	390	808	991
Other precision production, craft, and repair	3,996	4,035	3,428	3,460	365	373	564	534
Operators, fabricators, and laborers	18,475	18,678	14,856	14,915	2,852	2,993	2,995	3,222
Machine operators, assemblers, and inspectors	7,757	7,385	6,147	5,816	1,187	1,159	1,347	1,403
Transportation and material moving occupations	5,516	5,803	4,522	4,719	845	952	684	725
Handlers, equipment cleaners, helpers, and laborers	5,201	5,490	4,187	4,381	820	881	964	1,093
Construction laborers	851	1,017	739	834	91	143	212	264
Other handlers, equipment cleaners, helpers, and laborers	4,351	4,473	3,448	3,547	729	738	752	829
Farming, forestry, and fishing	3,405	3,255	3,141	3,022	174	153	795	769
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,950	1,906	1,796	1,785	106	75	681	652
Self-employed workers	1,284	1,205	1,231	1,153	36	27	47	74
Unpaid family workers	35	42	35	40	-	-	3	1
Nonagricultural industries:								
Wage and salary workers	120,276	122,537	100,535	102,132	14,237	14,574	12,160	12,643
Government	18,783	19,021	15,037	15,301	2,935	2,933	1,320	1,388
Private industries	101,493	103,517	85,497	86,832	11,302	11,640	10,840	11,255
Private households	960	948	772	744	159	153	280	246
Other industries	100,533	102,569	84,725	86,088	11,143	11,488	10,560	11,009
Self-employed workers	8,929	8,747	7,964	7,784	545	589	547	631
Unpaid family workers	103	97	84	80	6	5	4	10
FULL- OR PART-TIME STATUS								
Full-time workers	108,760	110,999	90,960	92,646	12,731	13,101	11,490	12,100
Part-time workers	23,817	23,535	20,686	20,329	2,199	2,168	1,952	1,912

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.

Beginning in January 1999, data reflect revised population controls used in the household data.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-15. Employed Mexican, Puerto Rican, and Cuban-origin workers by sex, occupation, class of worker, and full- or part-time status

(In thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
SEX								
Total (all civilian workers)	13,442	14,012	8,496	8,873	1,167	1,122	623	637
Men	8,124	8,204	5,344	5,438	639	580	380	367
Women	5,317	5,808	3,152	3,436	528	543	243	269
OCCUPATION								
Managerial and professional specialty	1,932	2,009	945	1,040	212	224	166	158
Executive, administrative, and managerial	1,076	1,066	551	551	110	111	103	89
Professional specialty	856	944	394	489	102	113	63	70
Technical, sales, and administrative support	3,141	3,264	1,787	1,929	369	342	185	183
Technicians and related support	282	266	165	188	23	13	22	6
Sales occupations	1,260	1,281	709	705	143	135	88	92
Administrative support, including clerical	1,600	1,717	913	1,035	203	194	75	84
Service occupations	2,706	2,714	1,710	1,687	199	191	83	98
Private household	272	237	128	120	3	7	—	1
Protective service	198	197	108	100	47	40	11	12
Service, except private household and protective	2,236	2,280	1,474	1,468	149	144	73	85
Precision production, craft, and repair	1,872	2,034	1,232	1,402	147	129	67	66
Mechanics and repairers	500	509	326	306	42	52	22	24
Construction trades	808	991	541	724	48	32	22	29
Other precision production, craft, and repair	564	534	366	372	57	45	22	14
Operators, fabricators, and laborers	2,995	3,222	2,106	2,141	222	226	112	128
Machine operators, assemblers, and inspectors	1,347	1,403	967	943	118	92	30	53
Transportation and material moving occupations	684	725	448	427	50	53	51	39
Handlers, equipment cleaners, helpers, and laborers	964	1,093	691	771	54	82	32	36
Construction laborers	212	264	176	212	3	8	—	2
Other handlers, equipment cleaners, helpers, and laborers	752	829	515	559	51	74	32	34
Farming, forestry, and fishing	795	769	716	675	19	11	10	4
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	681	652	630	596	8	3	6	—
Self-employed workers	47	74	39	58	2	1	—	4
Unpaid family workers	3	1	3	1	—	—	—	—
Nonagricultural industries:								
Wage and salary workers	12,160	12,643	7,536	7,861	1,115	1,077	597	598
Government	1,320	1,388	811	899	186	176	70	76
Private industries	10,840	11,255	6,725	6,962	929	901	527	523
Private households	280	246	135	128	3	7	—	1
Other industries	10,560	11,009	6,590	6,835	926	894	527	522
Self-employed workers	547	631	286	347	40	41	20	34
Unpaid family workers	4	10	2	9	2	—	—	—
FULL- OR PART-TIME STATUS								
Full-time workers	11,490	12,100	7,276	7,663	989	978	559	560
Part time workers	1,952	1,912	1,220	1,210	178	144	64	77

¹ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-16. Employed persons by age, sex, race, and Hispanic origin

(In thousands)

Age and sex	Total		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
Total, 16 years and over	132,578	134,534	111,646	112,975	14,929	15,270	13,442	14,012
16 to 19 years	6,839	6,989	5,871	6,039	748	667	804	856
16 to 17 years	2,657	2,720	2,330	2,368	249	230	206	258
18 to 19 years	4,182	4,268	3,542	3,671	499	436	598	598
20 to 24 years	12,664	12,977	10,549	10,784	1,574	1,618	1,927	1,903
25 years and over	113,074	114,568	95,226	96,152	12,608	12,985	10,711	11,253
25 to 54 years	96,067	97,093	80,275	80,881	11,164	11,473	9,725	10,195
55 years and over	17,007	17,475	14,951	15,271	1,445	1,511	986	1,058
Men, 16 years and over	71,135	71,774	60,902	61,320	7,004	7,113	8,124	8,204
16 to 19 years	3,462	3,576	3,010	3,107	335	315	469	493
16 to 17 years	1,319	1,388	1,159	1,216	117	106	107	130
18 to 19 years	2,142	2,189	1,851	1,891	218	209	362	363
20 to 24 years	6,667	6,784	5,679	5,787	698	727	1,204	1,169
25 years and over	61,007	61,414	52,213	52,426	5,971	6,070	6,451	6,542
25 to 54 years	51,569	51,755	43,843	43,882	5,283	5,357	5,842	5,907
55 years and over	9,437	9,659	8,370	8,544	688	713	609	635
Women, 16 years and over	61,443	62,760	50,744	51,655	7,926	8,157	5,317	5,808
16 to 19 years	3,378	3,412	2,862	2,932	413	352	335	363
16 to 17 years	1,338	1,333	1,171	1,152	132	124	100	128
18 to 19 years	2,040	2,079	1,691	1,780	281	228	235	235
20 to 24 years	5,997	6,193	4,869	4,998	876	891	722	735
25 years and over	52,067	53,154	43,013	43,726	6,637	6,914	4,260	4,710
25 to 54 years	44,497	45,338	36,432	36,998	5,880	6,117	3,883	4,288
55 years and over	7,570	7,816	6,581	6,727	756	798	377	423

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-17. Unemployment rates by age, sex, race, and Hispanic origin

Age and sex	Total		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
Total, 16 years and over	4.1	3.8	3.6	3.3	7.8	7.6	7.0	5.8
16 to 19 years	14.1	13.1	12.3	11.3	24.9	26.6	21.5	18.6
16 to 17 years	16.0	14.8	14.2	13.4	28.9	28.0	30.5	24.8
18 to 19 years	12.8	12.0	11.0	9.9	22.7	25.9	17.8	15.7
20 to 24 years	6.5	6.9	5.5	5.6	13.2	14.3	8.7	7.7
25 years and over	3.2	2.8	2.8	2.4	5.8	5.4	5.4	4.4
25 to 54 years	3.3	2.9	2.8	2.4	6.0	5.6	5.4	4.4
55 years and over	2.7	2.4	2.5	2.2	4.0	4.0	5.8	4.4
Men, 16 years and over	4.0	3.8	3.6	3.2	7.9	8.3	6.1	5.2
16 to 19 years	15.7	14.2	13.6	12.2	29.7	29.5	18.7	18.0
16 to 17 years	18.6	15.2	16.7	13.9	33.1	30.4	30.0	26.1
18 to 19 years	13.8	13.5	11.5	11.1	27.7	29.1	14.7	14.7
20 to 24 years	6.8	7.4	5.8	5.9	14.1	16.2	8.5	7.6
25 years and over	3.0	2.7	2.6	2.3	5.5	5.8	4.6	3.6
25 to 54 years	3.0	2.7	2.6	2.3	5.6	5.9	4.5	3.5
55 years and over	2.8	2.5	2.6	2.3	4.2	4.6	5.6	4.4
Women, 16 years and over	4.2	3.8	3.6	3.3	7.7	7.0	8.4	6.7
16 to 19 years	12.4	12.1	10.9	10.4	20.5	23.8	25.0	19.5
16 to 17 years	13.4	14.4	11.7	12.9	24.7	25.8	31.2	23.5
18 to 19 years	11.8	10.5	10.4	8.6	18.4	22.6	22.0	17.1
20 to 24 years	6.2	6.5	5.1	5.4	12.4	12.8	8.9	7.9
25 years and over	3.4	2.9	2.9	2.6	6.0	5.1	6.7	5.4
25 to 54 years	3.5	3.0	3.0	2.6	6.3	5.3	6.7	5.5
55 years and over	2.5	2.4	2.4	2.2	3.9	3.5	6.1	4.3

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-18. Unemployed persons by reason for unemployment, race, and Hispanic origin

(Numbers in thousands)

Reasons	Total		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
NUMBER OF UNEMPLOYED								
Total unemployed	5,702	5,332	4,155	3,797	1,261	1,254	1,018	869
Job losers and persons who completed temporary jobs	2,621	2,318	1,982	1,694	524	503	481	390
On temporary layoff	752	717	636	583	90	97	148	131
Not on temporary layoff	1,869	1,601	1,347	1,111	434	406	333	259
Permanent job losers	1,272	1,079	928	777	275	238	203	148
Persons who completed temporary jobs	596	522	419	334	159	168	130	111
Job leavers	679	766	524	606	125	130	77	85
Reentrants	1,957	1,845	1,368	1,236	480	513	337	292
New entrants	446	404	281	260	132	107	122	101
PERCENT DISTRIBUTION								
Job losers and persons who completed temporary jobs	46.0	43.5	47.7	44.6	41.6	40.2	47.3	44.9
On temporary layoff	13.2	13.4	15.3	15.4	7.2	7.8	14.6	15.0
Not on temporary layoff	32.8	30.0	32.4	29.3	34.4	32.4	32.7	29.8
Job leavers	11.9	14.4	12.6	16.0	9.9	10.4	7.6	9.8
Reentrants	34.3	34.6	32.9	32.6	38.1	40.9	33.1	33.7
New entrants	7.8	7.6	6.8	6.8	10.5	8.5	12.0	11.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers and persons who completed temporary jobs	1.9	1.7	1.7	1.5	3.2	3.0	3.3	2.6
Job leavers	.5	.5	.5	.5	.8	.8	.5	.6
Reentrants	1.4	1.3	1.2	1.1	3.0	3.1	2.3	2.0
New entrants	.3	.3	.2	.2	.8	.6	.8	.7

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-19. Unemployed persons by duration of unemployment, race, and Hispanic origin

(Numbers in thousands)

Duration	Total		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
NUMBER OF UNEMPLOYED								
Total, 16 years and over	5,702	5,332	4,155	3,797	1,261	1,254	1,018	869
Less than 5 weeks	2,413	2,364	1,918	1,831	370	415	460	404
5 to 14 weeks	1,825	1,669	1,291	1,162	432	413	315	275
15 weeks and over	1,463	1,299	946	803	458	425	243	190
15 to 26 weeks	660	633	446	425	192	171	110	102
27 weeks and over	803	666	500	378	267	254	133	88
Average (mean) duration, in weeks	14.4	13.2	12.7	11.6	19.7	18.3	13.1	11.8
Median duration, in weeks	6.2	5.9	5.3	4.9	10.2	9.4	5.6	5.5
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.3	44.3	46.2	48.2	29.4	33.1	45.2	46.5
5 to 14 weeks	32.0	31.3	31.1	30.6	34.3	33.0	30.9	31.6
15 weeks and over	25.7	24.4	22.8	21.2	36.3	33.9	23.9	21.9
15 to 26 weeks	11.6	11.9	10.7	11.2	15.2	13.7	10.8	11.8
27 weeks and over	14.1	12.5	12.0	10.0	21.1	20.3	13.1	10.1

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

D-20. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	IV 1998	IV 1999	IV 1998	IV 1999
SEX AND AGE				
Total, 16 years and over	96,213	98,217	\$541	\$568
Men, 16 years and over	54,459	55,286	614	633
16 to 24 years	6,245	6,262	342	377
25 years and over	48,214	49,024	664	681
Women, 16 years and over	41,754	42,931	471	483
16 to 24 years	4,563	4,648	311	331
25 years and over	37,191	38,284	495	506
RACE, HISPANIC ORIGIN, AND SEX				
White	79,627	81,300	565	586
Men	46,128	46,859	635	654
Women	33,499	34,441	481	494
Black	12,015	12,213	439	450
Men	5,807	5,855	481	496
Women	6,208	6,358	405	408
Hispanic origin	10,812	11,258	372	383
Men	6,875	6,876	397	406
Women	3,937	4,382	337	345

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-21. Median weekly earnings of part-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	IV 1998	IV 1999	IV 1998	IV 1999
SEX AND AGE				
Total, 16 years and over	21,324	21,630	\$158	\$165
Men, 16 years and over	6,739	6,759	143	156
16 to 24 years	3,622	3,797	115	125
25 years and over	3,117	2,961	195	208
Women, 16 years and over	14,585	14,872	165	169
16 to 24 years	4,615	4,791	117	122
25 years and over	9,970	10,080	199	201
RACE, HISPANIC ORIGIN, AND SEX				
White	18,310	18,360	159	168
Men	5,639	5,608	143	156
Women	12,671	12,751	167	173
Black	2,172	2,274	148	146
Men	735	762	138	145
Women	1,437	1,512	154	147
Hispanic origin	1,752	1,784	163	163
Men	587	573	171	154
Women	1,166	1,211	158	168

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-22. Median weekly earnings of full-time wage and salary workers by occupation and sex

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	IV 1998	IV 1999	IV 1998	IV 1999
TOTAL				
Managerial and professional specialty	30,396	31,355	\$792	\$814
Executive, administrative, and managerial	15,034	15,269	788	814
Professional specialty	15,362	16,086	795	814
Technical, sales, and administrative support	27,225	27,484	482	494
Technicians and related support	3,349	3,711	611	632
Sales occupations	9,734	9,941	510	531
Administrative support, including clerical	14,143	13,833	443	453
Service occupations	10,469	10,521	325	337
Private household	413	307	236	296
Protective service	2,071	2,089	615	621
Service, except private household and protective	7,985	8,125	306	313
Precision production, craft, and repair	11,245	11,979	585	605
Mechanics and repairers	3,807	3,959	606	636
Construction trades	4,049	4,415	566	586
Other precision production, craft, and repair	3,389	3,605	580	598
Operators, fabricators, and laborers	15,158	15,283	423	444
Machine operators, assemblers, and inspectors	6,985	6,646	420	442
Transportation and material moving occupations	4,349	4,520	520	527
Handlers, equipment cleaners, helpers, and laborers	3,824	4,117	359	375
Farming, forestry, and fishing	1,721	1,596	303	344
Men				
Managerial and professional specialty	15,579	15,733	942	971
Executive, administrative, and managerial	8,111	8,079	947	1,015
Professional specialty	7,468	7,654	937	947
Technical, sales, and administrative support	10,349	10,546	612	639
Technicians and related support	1,698	1,804	738	736
Sales occupations	5,238	5,362	635	670
Administrative support, including clerical	3,414	3,379	526	556
Service occupations	5,239	5,086	396	410
Private household	30	4	(¹)	(¹)
Protective service	1,739	1,752	\$629	\$637
Service, except private household and protective	3,469	3,331	321	348
Precision production, craft, and repair	10,317	10,869	597	616
Mechanics and repairers	3,681	3,734	604	636
Construction trades	3,985	4,336	567	589
Other precision production, craft, and repair	2,651	2,799	617	641
Operators, fabricators, and laborers	11,501	11,661	467	480
Machine operators, assemblers, and inspectors	4,490	4,130	487	502
Transportation and material moving occupations	3,979	4,150	537	536
Handlers, equipment cleaners, helpers, and laborers	3,032	3,382	372	389
Farming, forestry, and fishing	1,475	1,391	313	359
Women				
Managerial and professional specialty	14,817	15,622	672	698
Executive, administrative, and managerial	6,923	7,190	642	656
Professional specialty	7,894	8,432	698	733
Technical, sales, and administrative support	16,876	16,938	422	436
Technicians and related support	1,651	1,906	519	548
Sales occupations	4,496	4,579	375	407
Administrative support, including clerical	10,729	10,453	421	429
Service occupations	5,230	5,434	298	302
Private household	382	303	227	298
Protective service	331	337	542	501
Service, except private household and protective	4,516	4,794	296	299
Precision production, craft, and repair	928	1,110	439	437
Mechanics and repairers	126	225	690	646
Construction trades	64	79	(¹)	(¹)
Other precision production, craft, and repair	737	806	\$414	\$409
Operators, fabricators, and laborers	3,657	3,621	342	351
Machine operators, assemblers, and inspectors	2,495	2,517	345	352
Transportation and material moving occupations	370	370	406	465
Handlers, equipment cleaners, helpers, and laborers	793	735	315	311
Farming, forestry, and fishing	246	206	253	263

¹ Data not shown where base is less than 100,000.

controls used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-23. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	IV 1998	IV 1999	Total		Employed		Unemployed			
			IV 1998	IV 1999	IV 1998	IV 1999	Number		Percent of labor force	
							IV 1998	IV 1999	IV 1998	IV 1999
VIETNAM-ERA VETERANS										
Total, 40 years and over	7,779	7,739	6,478	6,307	6,324	6,146	154	161	2.4	2.5
40 to 54 years	5,796	5,298	5,149	4,664	5,025	4,529	124	134	2.4	2.9
40 to 44 years	630	439	561	381	540	368	21	13	3.7	3.4
45 to 49 years	2,084	1,744	1,881	1,537	1,835	1,490	46	47	2.4	3.0
50 to 54 years	3,083	3,114	2,707	2,746	2,649	2,672	58	75	2.1	2.7
55 years and over	1,983	2,442	1,329	1,643	1,300	1,617	30	27	2.2	1.6
NONVETERANS										
Total, 40 to 54 years	20,615	21,704	18,674	19,639	18,210	19,175	465	464	2.5	2.4
40 to 44 years	9,317	9,479	8,602	8,759	8,386	8,566	216	193	2.5	2.2
45 to 49 years	6,994	7,522	6,363	6,786	6,197	6,620	166	166	2.6	2.4
50 to 54 years	4,304	4,702	3,710	4,094	3,626	3,989	83	104	2.3	2.6

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-24. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

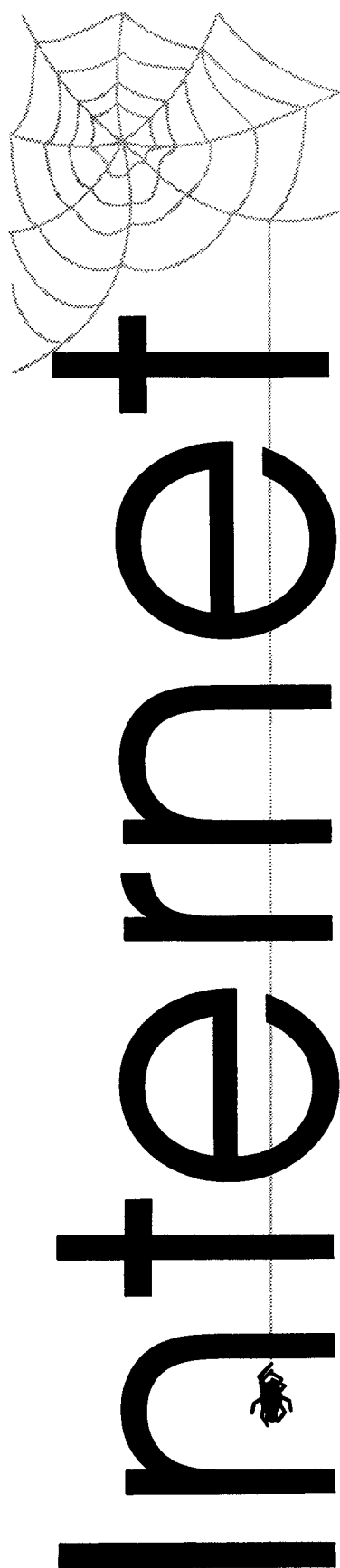
(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999	IV 1998	IV 1999
Total, 40 to 54 years												
Civilian noninstitutional population	5,111	4,678	567	521	231	239	17,464	18,327	2,102	2,266	2,186	2,196
Civilian labor force	4,573	4,169	483	416	207	221	16,064	16,814	1,675	1,836	1,931	1,918
Employed	4,459	4,060	474	393	198	221	15,696	16,463	1,599	1,750	1,853	1,849
Unemployed	114	109	9	23	9	-	368	351	76	86	77	69
Unemployment rate	2.5	2.6	1.9	5.6	4.4	.2	2.3	2.1	4.5	4.7	4.0	3.6
40 to 44 years												
Civilian noninstitutional population	493	362	115	72	36	22	7,929	8,021	929	998	1,036	1,016
Civilian labor force	442	317	104	60	33	19	7,412	7,503	770	840	935	918
Employed	426	310	99	54	30	19	7,249	7,359	726	796	895	892
Unemployed	16	6	5	6	3	-	164	144	43	45	40	26
Unemployment rate	3.6	2.0	4.9	9.6	(¹)	(¹)	2.2	1.9	5.6	5.3	4.3	2.8
45 to 49 years												
Civilian noninstitutional population	1,808	1,512	224	191	86	70	5,937	6,370	740	798	681	662
Civilian labor force	1,648	1,362	190	141	80	64	5,488	5,842	594	634	610	583
Employed	1,606	1,323	186	133	77	64	5,353	5,710	572	606	586	552
Unemployed	42	39	4	8	3	-	135	132	22	28	24	31
Unemployment rate	2.5	2.9	2.0	5.6	4.3	-	2.5	2.3	3.7	4.4	4.0	5.3
50 to 54 years												
Civilian noninstitutional population	2,809	2,805	228	258	109	147	3,599	3,936	433	469	469	518
Civilian labor force	2,483	2,490	189	216	94	138	3,163	3,470	312	362	386	418
Employed	2,426	2,426	189	206	92	137	3,094	3,395	301	348	372	405
Unemployed	57	64	1	10	2	-	70	76	11	13	13	13
Unemployment rate	2.3	2.6	.3	4.6	2.5	.3	2.2	2.2	3.4	3.7	3.4	3.0

¹ Data not shown where base is less than 60,000.

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. 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. Beginning in January 1999, data reflect revised population controls used in the household survey.



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Producer price indexes <http://stats.bls.gov/ppi/home.htm>
Consumer Expenditure Survey <http://stats.bls.gov/cs/home.htm>

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National Compensation Survey <http://stats.bls.gov/com/home.htm>
Collective bargaining <http://stats.bls.gov/cba/home.htm>
Employment cost trends <http://stats.bls.gov/ect/home.htm>
Employee Benefits Survey <http://stats.bls.gov/eb/home.htm>
Occupational Compensation Survey <http://stats.bls.gov/oc/home.htm>
Safety and health <http://stats.bls.gov/osh/home.htm>

Productivity:

Quarterly labor productivity <http://stats.bls.gov/lpr/home.htm>
Industry productivity <http://stats.bls.gov/ipr/home.htm>
Multifactor productivity <http://stats.bls.gov/mpr/home.htm>

Employment Projections <http://stats.bls.gov/emphome.htm>

International data:

Foreign labor statistics <http://stats.bls.gov/fls/home.htm>
U.S. import and export price indexes <http://stats.bls.gov/ipphome.htm>

Annual Averages

HOUSEHOLD DATA ANNUAL AVERAGES

1. Employment status of the civilian noninstitutional population, 1936 to date

(Numbers in thousands)

Year	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	
Persons 14 years of age and over									
1936	(1)	53,440	(1)	44,410	10,000	34,410	9,030	16.9	(1)
1937	(1)	54,000	(1)	46,300	9,820	36,480	7,700	14.3	(1)
1938	(1)	54,610	(1)	44,220	9,690	34,530	10,390	19.0	(1)
1939	(1)	55,230	(1)	45,750	9,610	36,140	9,480	17.2	(1)
1940	(1)	55,640	(1)	47,520	9,540	37,980	8,120	14.6	(1)
1941	(1)	55,910	(1)	50,350	9,100	41,250	5,560	9.9	(1)
1942	98,640	56,410	57.2	53,750	9,250	44,500	2,660	4.7	42,230
1943	94,640	55,540	58.7	54,470	9,080	45,390	1,070	1.9	39,100
1944	93,220	54,630	58.6	53,960	8,950	45,010	670	1.2	38,590
1945	94,090	53,860	57.2	52,820	8,580	44,240	1,040	1.9	40,230
1946	103,070	57,520	55.8	55,250	8,320	46,930	2,270	3.9	45,550
1947	106,018	60,168	56.8	57,812	8,256	49,557	2,356	3.9	45,850
Persons 16 years of age and over									
1947	101,827	59,350	58.3	57,038	7,890	49,148	2,311	3.9	42,477
1948	103,068	60,621	58.8	58,343	7,629	50,714	2,276	3.8	42,447
1949	103,994	61,286	58.9	57,651	7,658	49,993	3,637	5.9	42,708
1950	104,995	62,208	59.2	58,918	7,160	51,758	3,288	5.3	42,787
1951	104,621	62,017	59.2	59,961	6,726	53,235	2,055	3.3	42,604
1952	105,231	62,138	59.0	60,250	6,500	53,749	1,883	3.0	43,093
1953 ²	107,056	63,015	58.9	61,179	6,260	54,919	1,834	2.9	44,041
1954	108,321	63,643	58.8	60,109	6,205	53,904	3,532	5.5	44,678
1955	109,683	65,023	59.3	62,170	6,450	55,722	2,852	4.4	44,660
1956	110,954	66,552	60.0	63,799	6,283	57,514	2,750	4.1	44,402
1957	112,265	66,929	59.6	64,071	5,947	58,123	2,859	4.3	45,336
1958	113,727	67,639	59.5	63,036	5,586	57,450	4,602	6.8	46,088
1959	115,329	68,369	59.3	64,630	5,565	59,065	3,740	5.5	46,960
1960 ²	117,245	69,628	59.4	65,778	5,458	60,318	3,852	5.5	47,617
1961	118,771	70,459	59.3	65,746	5,200	60,546	4,714	6.7	48,312
1962 ²	120,153	70,614	58.8	66,702	4,944	61,759	3,911	5.5	49,539
1963	122,416	71,833	58.7	67,762	4,687	63,076	4,070	5.7	50,583
1964	124,485	73,091	58.7	69,305	4,523	64,782	3,786	5.2	51,394
1965	126,513	74,455	58.9	71,088	4,361	66,726	3,366	4.5	52,058
1966	128,058	75,770	59.2	72,895	3,979	68,915	2,875	3.8	52,288
1967	129,874	77,347	59.6	74,372	3,844	70,527	2,975	3.8	52,527
1968	132,028	78,737	59.6	75,920	3,817	72,103	2,817	3.6	53,291
1969	134,335	80,734	60.1	77,902	3,606	74,296	2,832	3.5	53,602
1970	137,085	82,771	60.4	78,678	3,463	75,215	4,093	4.9	54,315
1971	140,216	84,382	60.2	79,367	3,394	75,972	5,016	5.9	55,834
1972	144,126	87,034	60.4	82,153	3,484	78,669	4,882	5.6	57,091
1973 ²	147,096	89,429	60.8	85,064	3,470	81,594	4,365	4.9	57,667
1974	150,120	91,949	61.3	86,794	3,515	83,279	5,156	5.6	58,171
1975	153,153	93,775	61.2	85,846	3,408	82,438	7,929	8.5	59,377
1976	156,150	96,158	61.6	88,752	3,331	85,421	7,406	7.7	59,991
1977	159,033	99,009	62.3	92,017	3,283	88,734	6,991	7.1	60,025
1978 ²	161,910	102,251	63.2	96,048	3,387	92,661	6,202	6.1	59,659
1979	164,863	104,962	63.7	98,824	3,347	95,477	6,137	5.8	59,900
1980	167,745	106,940	63.8	99,303	3,364	95,938	7,637	7.1	60,806
1981	170,130	108,670	63.9	100,397	3,368	97,030	8,273	7.6	61,460
1982	172,271	110,204	64.0	99,526	3,401	96,125	10,678	9.7	62,067
1983	174,215	111,550	64.0	100,834	3,383	97,450	10,717	9.6	62,665
1984	176,383	113,544	64.4	105,005	3,321	101,685	8,539	7.5	62,839
1985	178,206	115,461	64.8	107,150	3,179	103,971	8,312	7.2	62,744
1986 ²	180,587	117,834	65.3	109,597	3,163	106,434	8,237	7.0	62,752
1987	182,753	119,865	65.6	112,440	3,208	109,232	7,425	6.2	62,888
1988	184,613	121,669	65.9	114,968	3,169	111,800	6,701	5.5	62,944
1989	186,393	123,869	66.5	117,342	3,199	114,142	6,528	5.3	62,523
1990 ²	189,164	125,840	66.5	118,793	3,223	115,570	7,047	5.6	63,324
1991	190,925	126,346	66.2	117,718	3,269	114,449	8,628	6.8	64,578
1992	192,805	128,105	66.4	118,492	3,247	115,245	9,613	7.5	64,700
1993	194,838	129,200	66.3	120,259	3,115	117,144	8,940	6.9	65,638
1994 ²	196,814	131,056	66.6	123,060	3,409	119,651	7,996	6.1	65,758
1995	198,584	132,304	66.6	124,900	3,440	121,460	7,404	5.6	66,280
1996	200,591	133,943	66.8	126,708	3,443	123,264	7,236	5.4	66,647
1997 ²	203,133	136,297	67.1	129,558	3,399	126,159	6,739	4.9	66,837
1998 ²	205,220	137,673	67.1	131,463	3,378	128,085	6,210	4.5	67,547
1999 ³	207,753	139,368	67.1	133,488	3,281	130,207	5,880	4.2	68,385

¹ Not available.

² Not strictly comparable with data for prior years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes and Estimates of Error.

³ Beginning in January 1999, data are not strictly comparable with data for 1998 and earlier years because of the revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1999" in the February 1999 issue of this publication.

2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1967 to date

(Numbers in thousands)

Year	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
Men										
1967	60,905	48,987	80.4	47,479	78.0	3,164	44,315	1,508	3.1	11,919
1968	61,847	49,533	80.1	48,114	77.8	3,157	44,957	1,419	2.9	12,315
1969	62,898	50,221	79.8	48,818	77.6	2,963	45,855	1,403	2.8	12,677
1970	64,304	51,228	79.7	48,990	76.2	2,862	46,128	2,238	4.4	13,076
1971	65,942	52,180	79.1	49,390	74.9	2,795	46,595	2,789	5.3	13,762
1972 ¹	67,835	53,555	78.9	50,896	75.0	2,849	48,047	2,659	5.0	14,280
1973 ¹	69,292	54,624	78.8	52,349	75.5	2,847	49,502	2,275	4.2	14,667
1974	70,808	55,739	78.7	53,024	74.9	2,919	50,105	2,714	4.9	15,069
1975	72,291	56,299	77.9	51,857	71.7	2,824	49,032	4,442	7.9	15,993
1976	73,759	57,174	77.5	53,138	72.0	2,744	50,394	4,036	7.1	16,585
1977	75,193	58,396	77.7	54,728	72.8	2,671	52,057	3,667	6.3	16,797
1978 ¹	76,576	59,620	77.9	56,479	73.8	2,718	53,761	3,142	5.3	16,956
1979	78,020	60,726	77.8	57,607	73.8	2,686	54,921	3,120	5.1	17,293
1980	79,398	61,453	77.4	57,186	72.0	2,709	54,477	4,267	6.9	17,945
1981	80,511	61,974	77.0	57,397	71.3	2,700	54,697	4,577	7.4	18,537
1982	81,523	62,450	76.6	56,271	69.0	2,736	53,534	6,179	9.9	19,073
1983	82,531	63,047	76.4	56,787	68.8	2,704	54,083	6,260	9.9	19,484
1984	83,605	63,835	76.4	59,091	70.7	2,668	56,423	4,744	7.4	19,771
1985	84,469	64,411	76.3	59,891	70.9	2,535	57,356	4,521	7.0	20,058
1986 ¹	85,798	65,422	76.3	60,892	71.0	2,511	58,381	4,530	6.9	20,376
1987	86,899	66,207	76.2	62,107	71.5	2,543	59,564	4,101	6.2	20,692
1988	87,857	66,927	76.2	63,273	72.0	2,493	60,780	3,655	5.5	20,930
1989	88,762	67,840	76.4	64,315	72.5	2,513	61,802	3,525	5.2	20,923
1990 ¹	90,377	69,011	76.4	65,104	72.0	2,546	62,559	3,906	5.7	21,367
1991	91,278	69,168	75.8	64,223	70.4	2,589	61,634	4,946	7.2	22,110
1992	92,270	69,964	75.8	64,440	69.8	2,575	61,866	5,523	7.9	22,306
1993	93,332	70,404	75.4	65,349	70.0	2,478	62,871	5,055	7.2	22,927
1994 ¹	94,355	70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,538
1995	95,178	71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,818
1996	96,206	72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,119
1997 ¹	97,715	73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,454
1998 ¹	98,758	73,959	74.9	70,693	71.6	2,553	68,140	3,266	4.4	24,799
1999 ²	99,722	74,512	74.7	71,446	71.6	2,432	69,014	3,066	4.1	25,210
Women										
1967	68,968	28,360	41.1	26,893	39.0	680	26,212	1,468	5.2	40,608
1968	70,179	29,204	41.6	27,807	39.6	660	27,147	1,397	4.8	40,976
1969	71,436	30,513	42.7	29,084	40.7	643	28,441	1,429	4.7	40,924
1970	72,782	31,543	43.3	29,688	40.8	601	29,087	1,855	5.9	41,239
1971	74,274	32,202	43.4	29,976	40.4	599	29,377	2,227	6.9	42,072
1972 ¹	76,290	33,479	43.9	31,257	41.0	635	30,622	2,222	6.6	42,811
1973 ¹	77,804	34,804	44.7	32,715	42.0	622	32,093	2,089	6.0	43,000
1974	79,312	36,211	45.7	33,769	42.6	596	33,173	2,441	6.7	43,101
1975	80,860	37,475	46.3	33,989	42.0	584	33,404	3,486	9.3	43,386
1976	82,390	38,983	47.3	35,615	43.2	588	35,027	3,369	8.6	43,406
1977	83,840	40,613	48.4	37,289	44.5	612	36,677	3,324	8.2	43,227
1978 ¹	85,334	42,631	50.0	39,569	46.4	669	38,900	3,061	7.2	42,703
1979	86,843	44,235	50.9	41,217	47.5	661	40,556	3,018	6.8	42,608
1980	88,348	45,487	51.5	42,117	47.7	656	41,461	3,370	7.4	42,861
1981	89,618	46,696	52.1	43,000	48.0	667	42,333	3,696	7.9	42,922
1982	90,748	47,755	52.6	43,256	47.7	665	42,591	4,499	9.4	42,993
1983	91,684	48,503	52.9	44,047	48.0	680	43,367	4,457	9.2	43,181
1984	92,778	49,709	53.6	45,915	49.5	653	45,262	3,794	7.6	43,068
1985	93,736	51,050	54.5	47,259	50.4	644	46,615	3,791	7.4	42,686
1986 ¹	94,789	52,413	55.3	48,706	51.4	652	48,054	3,707	7.1	42,376
1987	95,853	53,658	56.0	50,334	52.5	666	49,668	3,324	6.2	42,195
1988	96,756	54,742	56.6	51,696	53.4	676	51,020	3,046	5.6	42,014
1989	97,630	56,030	57.4	53,027	54.3	687	52,341	3,003	5.4	41,601
1990 ¹	98,787	56,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,957
1991	99,646	57,178	57.4	53,496	53.7	680	52,815	3,683	6.4	42,468
1992	100,535	58,141	57.8	54,052	53.8	672	53,380	4,090	7.0	42,394
1993	101,506	58,795	57.9	54,910	54.1	637	54,273	3,885	6.6	42,711
1994 ¹	102,460	60,239	58.8	56,610	55.3	855	55,755	3,629	6.0	42,221
1995	103,406	60,944	58.9	57,523	55.6	881	56,642	3,421	5.6	42,462
1996	104,385	61,857	59.3	58,501	56.0	871	57,630	3,356	5.4	42,528
1997 ¹	105,418	63,036	59.8	59,873	56.8	847	59,026	3,162	5.0	42,382
1998 ¹	106,462	63,714	59.8	60,771	57.1	825	59,945	2,944	4.6	42,748
1999 ²	108,031	64,855	60.0	62,042	57.4	849	61,193	2,814	4.3	43,175

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

² Beginning in January 1999, data are not strictly comparable with data for 1998 and

earlier years because of revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1999" in the February 1999 issue of this publication.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

3. Employment status of the civilian noninstitutional population by age, sex, and race

(Numbers in thousands)

Age, sex, and race	1999									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed				Unemployed		Not in labor force
				Total	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL										
16 years and over	207,753	139,368	67.1	133,488	64.3	3,281	130,207	5,880	4.2	68,385
16 to 19 years	16,040	8,333	52.0	7,172	44.7	234	6,938	1,162	13.9	7,706
16 to 17 years	8,060	3,337	41.4	2,793	34.7	107	2,686	544	16.3	4,723
18 to 19 years	7,979	4,996	62.6	4,379	54.9	128	4,251	618	12.4	2,983
20 to 24 years	17,968	13,933	77.5	12,891	71.7	332	12,559	1,042	7.5	4,034
25 to 54 years	118,198	99,414	84.1	96,228	81.4	2,009	94,219	3,186	3.2	18,785
25 to 34 years	37,976	32,143	84.6	30,865	81.3	648	30,218	1,278	4.0	5,833
25 to 29 years	18,339	15,517	84.6	14,836	80.9	318	14,519	681	4.4	2,822
30 to 34 years	19,637	16,626	84.7	16,029	81.6	330	15,699	597	3.6	3,011
35 to 44 years	44,635	37,882	84.9	36,728	82.3	782	35,946	1,154	3.0	6,753
35 to 39 years	22,379	18,937	84.6	18,345	82.0	388	17,957	592	3.1	3,441
40 to 44 years	22,256	18,945	85.1	18,382	82.6	393	17,989	562	3.0	3,311
45 to 54 years	35,587	29,388	82.6	28,635	80.5	580	28,055	753	2.6	6,199
45 to 49 years	19,324	16,330	84.5	15,904	82.3	341	15,563	426	2.6	2,994
50 to 54 years	16,263	13,058	80.3	12,731	78.3	239	12,492	327	2.5	3,205
55 to 64 years	23,064	13,682	59.3	13,315	57.7	422	12,893	367	2.7	9,382
55 to 59 years	12,747	8,895	69.8	8,656	67.9	234	8,422	239	2.7	3,852
60 to 64 years	10,317	4,787	46.4	4,659	45.2	188	4,471	128	2.7	5,530
65 years and over	32,484	4,005	12.3	3,882	11.9	283	3,599	124	3.1	28,478
65 to 69 years	9,281	2,137	23.0	2,065	22.2	120	1,945	72	3.4	7,144
70 to 74 years	8,540	1,116	13.1	1,088	12.7	81	1,007	29	2.6	7,424
75 years and over	14,663	752	5.1	729	5.0	82	648	23	3.0	13,911
Men										
16 years and over	99,722	74,512	74.7	71,446	71.6	2,432	69,014	3,066	4.1	25,210
16 to 19 years	8,167	4,318	52.9	3,685	45.1	188	3,497	633	14.7	3,848
16 to 17 years	4,143	1,732	41.8	1,437	34.7	84	1,353	295	17.0	2,411
18 to 19 years	4,024	2,587	64.3	2,249	55.9	104	2,145	338	13.1	1,437
20 to 24 years	8,899	7,291	81.9	6,729	75.6	259	6,470	562	7.7	1,608
25 to 54 years	57,870	53,093	91.7	51,496	89.0	1,467	50,029	1,597	3.0	4,776
25 to 34 years	18,565	17,318	93.3	16,894	89.9	497	16,198	624	3.6	1,248
25 to 29 years	9,931	8,283	92.7	7,949	89.0	249	7,700	334	4.0	649
30 to 34 years	9,634	9,035	93.8	8,745	90.8	247	8,498	290	3.2	599
35 to 44 years	21,969	20,382	92.8	19,811	90.2	569	19,241	571	2.8	1,587
35 to 39 years	11,026	10,287	93.3	9,999	90.7	301	9,698	288	2.8	739
40 to 44 years	10,942	10,095	92.3	9,811	89.7	269	9,543	283	2.8	848
45 to 54 years	17,335	15,394	88.8	14,991	86.5	401	14,590	403	2.6	1,942
45 to 49 years	9,444	8,532	90.3	8,302	87.9	240	8,062	229	2.7	912
50 to 54 years	7,892	6,862	87.0	6,689	84.8	160	6,528	173	2.5	1,029
55 to 64 years	11,008	7,477	67.9	7,274	66.1	297	6,977	203	2.7	3,531
55 to 59 years	6,123	4,799	78.4	4,671	76.3	160	4,511	128	2.7	1,324
60 to 64 years	4,885	2,678	54.8	2,603	53.3	136	2,466	75	2.8	2,207
65 years and over	13,779	2,333	16.9	2,263	16.4	222	2,041	70	3.0	11,446
65 to 69 years	4,279	1,218	28.5	1,177	27.5	94	1,083	40	3.3	3,062
70 to 74 years	3,776	657	17.4	642	17.0	64	578	15	2.3	3,119
75 years and over	5,724	458	8.0	444	7.8	63	380	14	3.1	5,266
Women										
16 years and over	108,031	64,855	60.0	62,042	57.4	849	61,193	2,814	4.3	43,175
16 to 19 years	7,873	4,015	51.0	3,487	44.3	46	3,440	529	13.2	3,858
16 to 17 years	3,917	1,606	41.0	1,357	34.6	23	1,334	249	15.5	2,312
18 to 19 years	3,955	2,410	60.9	2,130	53.9	23	2,107	280	11.6	1,546
20 to 24 years	9,069	6,643	73.2	6,163	68.0	74	6,089	480	7.2	2,426
25 to 54 years	60,329	46,321	76.8	44,732	74.1	542	44,190	1,588	3.4	14,008
25 to 34 years	19,411	14,826	76.4	14,171	73.0	151	14,020	654	4.4	4,585
25 to 29 years	9,408	7,235	76.9	6,888	73.2	68	6,819	347	4.8	2,173
30 to 34 years	10,003	7,591	75.9	7,284	72.8	83	7,201	307	4.0	2,412
35 to 44 years	22,666	17,501	77.2	16,917	74.6	212	16,705	584	3.3	5,166
35 to 39 years	11,352	8,650	76.2	8,346	73.5	87	8,259	304	3.5	2,702
40 to 44 years	11,314	8,850	78.2	8,571	75.8	125	8,446	279	3.2	2,464
45 to 54 years	18,251	13,994	76.7	13,644	74.8	179	13,465	350	2.5	4,257
45 to 49 years	9,880	7,798	78.9	7,602	76.9	100	7,501	197	2.5	2,082
50 to 54 years	8,371	6,196	74.0	6,042	72.2	78	5,964	154	2.5	2,175
55 to 64 years	12,056	6,204	51.5	6,041	50.1	126	5,915	163	2.6	5,851
55 to 59 years	6,624	4,096	61.8	3,985	60.2	74	3,911	110	2.7	2,528
60 to 64 years	5,432	2,109	38.8	2,056	37.8	52	2,004	53	2.5	3,323
65 years and over	18,705	1,673	8.9	1,619	8.7	61	1,558	54	3.2	17,032
65 to 69 years	5,002	920	18.4	888	17.7	26	862	32	3.5	4,082
70 to 74 years	4,764	459	9.6	446	9.4	17	429	13	2.9	4,305
75 years and over	8,939	294	3.3	286	3.2	18	267	9	2.9	8,645

See footnotes at end of table.

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

(Numbers in thousands)

Age, sex, and race	1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
WHITE										
16 years and over	173,085	116,509	67.3	112,235	64.8	3,083	109,152	4,273	3.7	56,577
16 to 19 years	12,700	7,048	55.5	6,204	48.8	224	5,980	844	12.0	5,652
16 to 17 years	6,342	2,849	44.9	2,435	38.4	104	2,331	414	14.5	3,493
18 to 19 years	6,358	4,199	66.0	3,769	59.3	120	3,649	430	10.2	2,160
20 to 24 years	14,394	11,436	79.5	10,716	74.4	313	10,403	720	6.3	2,958
25 to 54 years	97,319	82,470	84.7	80,168	82.4	1,880	78,288	2,302	2.8	14,849
25 to 34 years	30,516	25,978	85.1	25,113	82.3	612	24,501	865	3.3	4,538
25 to 29 years	14,637	12,470	85.2	12,010	82.0	302	11,708	461	3.7	2,167
30 to 34 years	15,879	13,507	85.1	13,103	82.5	310	12,793	404	3.0	2,371
35 to 44 years	36,755	31,391	85.4	30,548	83.1	730	29,818	843	2.7	5,364
35 to 39 years	18,387	15,650	85.1	15,226	82.8	368	14,858	424	2.7	2,738
40 to 44 years	18,368	15,741	85.7	15,322	83.4	363	14,959	419	2.7	2,626
45 to 54 years	30,048	25,102	83.5	24,507	81.6	537	23,970	595	2.4	4,946
45 to 49 years	16,167	13,817	85.5	13,488	83.4	316	13,172	330	2.4	2,350
50 to 54 years	13,881	11,285	81.3	11,019	79.4	221	10,798	265	2.4	2,597
55 to 64 years	19,855	11,960	60.2	11,657	58.7	396	11,262	303	2.5	7,895
55 to 59 years	10,951	7,755	70.8	7,558	69.0	218	7,340	198	2.6	3,196
60 to 64 years	8,904	4,205	47.2	4,100	46.0	178	3,922	105	2.5	4,699
65 years and over	28,818	3,595	12.5	3,491	12.1	272	3,219	104	2.9	25,223
65 to 69 years	8,036	1,887	23.5	1,826	22.7	114	1,713	60	3.2	6,149
70 to 74 years	7,563	1,023	13.5	997	13.2	79	919	25	2.5	6,540
75 years and over	13,220	685	5.2	667	5.0	79	588	18	2.7	12,534
Men										
16 years and over	83,930	63,413	75.6	61,139	72.8	2,273	58,866	2,274	3.6	20,517
16 to 19 years	6,498	3,666	56.4	3,205	49.3	178	3,027	461	12.6	2,832
16 to 17 years	3,266	1,478	45.2	1,254	38.4	81	1,173	223	15.1	1,789
18 to 19 years	3,232	2,188	67.7	1,951	60.4	97	1,854	237	10.8	1,043
20 to 24 years	7,244	6,151	84.9	5,753	79.4	244	5,509	398	6.5	1,093
25 to 54 years	48,324	44,861	92.8	43,678	90.4	1,364	42,314	1,183	2.6	3,464
25 to 34 years	15,150	14,292	94.3	13,851	91.4	465	13,386	441	3.1	858
25 to 29 years	7,250	6,802	93.8	6,565	90.5	234	6,331	237	3.5	449
30 to 34 years	7,900	7,491	94.8	7,286	92.2	230	7,056	204	2.7	409
35 to 44 years	18,340	17,201	93.8	16,781	91.5	529	16,252	419	2.4	1,139
35 to 39 years	9,174	8,648	94.3	8,444	92.0	283	8,160	205	2.4	526
40 to 44 years	9,165	8,553	93.3	8,338	91.0	246	8,092	215	2.5	612
45 to 54 years	14,834	13,368	90.1	13,046	87.9	370	12,675	322	2.4	1,467
45 to 49 years	8,014	7,347	91.7	7,167	89.4	223	6,944	180	2.4	667
50 to 54 years	6,821	6,021	88.3	5,878	86.2	147	5,731	143	2.4	800
55 to 64 years	9,581	6,618	69.1	6,447	67.3	274	6,173	172	2.6	2,963
55 to 59 years	5,319	4,238	79.7	4,126	77.6	146	3,979	112	2.6	1,081
60 to 64 years	4,262	2,380	55.8	2,321	54.4	127	2,194	59	2.5	1,882
65 years and over	12,283	2,117	17.2	2,056	16.7	212	1,844	61	2.9	10,166
65 to 69 years	3,741	1,087	29.0	1,051	28.1	89	962	35	3.3	2,655
70 to 74 years	3,375	609	18.1	595	17.6	62	533	14	2.4	2,766
75 years and over	5,166	421	8.2	410	7.9	61	349	11	2.7	4,745
Women										
16 years and over	89,156	53,096	59.6	51,096	57.3	810	50,286	1,999	3.8	36,060
16 to 19 years	6,202	3,382	54.5	2,999	48.3	45	2,953	383	11.3	2,821
16 to 17 years	3,076	1,371	44.6	1,181	38.4	23	1,158	190	13.9	1,704
18 to 19 years	3,127	2,010	64.3	1,817	58.1	23	1,795	193	9.6	1,116
20 to 24 years	7,150	5,285	73.9	4,963	69.4	68	4,895	322	6.1	1,865
25 to 54 years	48,994	37,609	76.8	36,489	74.5	515	35,974	1,120	3.0	11,385
25 to 34 years	15,366	11,685	76.0	11,262	73.3	147	11,114	423	3.6	3,680
25 to 29 years	7,387	5,669	76.7	5,445	73.7	67	5,377	224	4.0	1,718
30 to 34 years	7,978	6,017	75.4	5,817	72.9	80	5,737	199	3.3	1,962
35 to 44 years	18,415	14,190	77.1	13,767	74.8	201	13,565	423	3.0	4,225
35 to 39 years	9,213	7,002	76.0	6,782	73.6	84	6,698	219	3.1	2,211
40 to 44 years	9,202	7,188	78.1	6,984	75.9	117	6,867	204	2.8	2,014
45 to 54 years	15,214	11,734	77.1	11,461	75.3	167	11,294	273	2.3	3,480
45 to 49 years	8,153	6,470	79.4	6,320	77.5	93	6,228	150	2.3	1,683
50 to 54 years	7,061	5,264	74.6	5,141	72.8	74	5,067	123	2.3	1,797
55 to 64 years	10,274	5,342	52.0	5,211	50.7	122	5,089	131	2.5	4,932
55 to 59 years	5,633	3,517	62.4	3,432	60.9	71	3,360	86	2.4	2,115
60 to 64 years	4,641	1,825	39.3	1,779	38.3	51	1,728	46	2.5	2,817
65 years and over	16,536	1,478	8.9	1,435	8.7	60	1,376	43	2.9	15,058
65 to 69 years	4,295	800	18.6	775	18.1	25	750	25	3.1	3,495
70 to 74 years	4,188	413	9.9	402	9.6	17	386	11	2.7	3,774
75 years and over	8,053	264	3.3	257	3.2	18	240	7	2.6	7,789

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

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

(Numbers in thousands)

Age, sex, and race	1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
BLACK										
16 years and over	24,855	16,365	65.8	15,056	60.6	117	14,939	1,309	8.0	8,490
16 to 19 years	2,479	959	38.7	691	27.9	4	687	268	27.9	1,520
16 to 17 years	1,250	352	28.2	243	19.5	-	243	109	31.0	898
18 to 19 years	1,229	607	49.4	448	36.4	4	444	159	26.2	622
20 to 24 years	2,615	1,866	71.4	1,594	60.9	11	1,582	273	14.6	749
25 to 54 years	14,725	12,075	82.0	11,367	77.2	81	11,286	708	5.9	2,650
25 to 34 years	5,197	4,430	85.2	4,091	78.7	25	4,066	339	7.6	768
25 to 29 years	2,555	2,189	85.7	2,004	78.4	11	1,993	185	8.5	366
30 to 34 years	2,642	2,240	84.8	2,087	79.0	14	2,073	153	6.8	402
35 to 44 years	5,609	4,653	83.0	4,404	78.5	31	4,373	249	5.3	956
35 to 39 years	2,863	2,373	82.9	2,239	78.2	13	2,226	133	5.6	490
40 to 44 years	2,746	2,280	83.0	2,165	78.8	17	2,147	116	5.1	466
45 to 54 years	3,919	2,992	76.4	2,872	73.3	25	2,847	121	4.0	926
45 to 49 years	2,263	1,786	78.9	1,709	75.5	18	1,691	77	4.3	477
50 to 54 years	1,656	1,206	72.8	1,162	70.2	7	1,155	44	3.6	450
55 to 64 years	2,295	1,180	51.4	1,134	49.4	15	1,119	46	3.9	1,115
55 to 59 years	1,267	785	62.0	756	59.7	10	746	29	3.7	482
60 to 64 years	1,028	395	38.4	378	36.8	5	373	17	4.3	633
65 years and over	2,741	285	10.4	271	9.9	5	265	14	5.0	2,456
65 to 69 years	921	170	18.5	161	17.5	3	158	9	5.1	751
70 to 74 years	720	64	8.8	61	8.5	1	61	2	3.9	657
75 years and over	1,099	51	4.7	48	4.4	2	46	3	6.2	1,048
Men										
16 years and over	11,143	7,652	68.7	7,027	63.1	99	6,928	626	8.2	3,491
16 to 19 years	1,218	470	38.6	325	26.7	3	322	145	30.9	748
16 to 17 years	628	180	28.6	120	19.1	-	119	60	33.3	449
18 to 19 years	589	291	49.3	205	34.8	3	202	85	29.4	299
20 to 24 years	1,197	835	69.8	700	58.5	9	692	135	16.2	362
25 to 54 years	6,652	5,662	85.1	5,345	80.3	69	5,276	317	5.6	990
25 to 34 years	2,321	2,069	89.2	1,926	83.0	24	1,902	143	6.9	252
25 to 29 years	1,127	1,012	89.8	934	82.8	10	923	79	7.8	115
30 to 34 years	1,194	1,057	88.5	993	83.2	14	979	64	6.1	137
35 to 44 years	2,566	2,206	86.0	2,092	81.5	26	2,066	114	5.2	360
35 to 39 years	1,303	1,130	86.7	1,069	82.0	13	1,057	61	5.4	173
40 to 44 years	1,263	1,076	85.2	1,023	81.0	13	1,009	53	5.0	187
45 to 54 years	1,765	1,387	78.5	1,327	75.2	19	1,308	60	4.3	379
45 to 49 years	1,026	831	81.0	791	77.1	14	777	40	4.8	195
50 to 54 years	740	556	75.1	536	72.4	26	531	20	3.6	184
55 to 64 years	986	547	55.5	525	53.3	13	513	22	3.9	439
55 to 59 years	547	361	65.9	350	64.0	8	342	10	2.9	187
60 to 64 years	438	186	42.5	175	39.9	5	170	11	6.0	252
65 years and over	1,091	138	12.7	131	12.0	5	126	7	5.0	953
65 to 69 years	394	86	21.8	82	20.7	3	79	4	4.9	308
70 to 74 years	295	26	8.9	25	8.6	1	25	1	(1)	269
75 years and over	401	26	6.5	24	6.0	2	23	2	(1)	375
Women										
16 years and over	13,711	8,713	63.5	8,029	58.6	18	8,011	684	7.8	4,999
16 to 19 years	1,261	489	38.8	366	29.0	1	365	123	25.1	772
16 to 17 years	621	172	27.8	123	19.8	-	123	49	28.5	449
18 to 19 years	640	316	49.5	243	37.9	1	242	74	23.3	323
20 to 24 years	1,418	1,031	72.7	893	63.0	3	891	138	13.4	387
25 to 54 years	8,073	6,413	79.4	6,022	74.6	12	6,010	391	6.1	1,660
25 to 34 years	2,876	2,360	82.1	2,165	75.3	1	2,164	196	8.3	516
25 to 29 years	1,428	1,177	82.4	1,070	74.9	1	1,070	107	9.1	251
30 to 34 years	1,448	1,183	81.7	1,094	75.6	-	1,094	89	7.5	265
35 to 44 years	3,043	2,447	80.4	2,312	76.0	5	2,307	135	5.5	596
35 to 39 years	1,560	1,242	79.6	1,170	75.0	1	1,169	72	5.8	317
40 to 44 years	1,483	1,204	81.2	1,142	77.0	4	1,138	62	5.2	279
45 to 54 years	2,153	1,606	74.6	1,545	71.8	6	1,539	61	3.8	547
45 to 49 years	1,237	955	77.2	918	74.2	4	914	37	3.9	282
50 to 54 years	916	650	71.0	627	68.4	2	625	24	3.6	266
55 to 64 years	1,310	633	48.4	609	46.5	2	606	25	3.9	677
55 to 59 years	720	424	59.0	406	56.4	2	403	19	4.4	295
60 to 64 years	590	209	35.4	203	34.4	-	203	6	2.8	381
65 years and over	1,650	147	8.9	139	8.4	-	139	7	5.0	1,503
65 to 69 years	528	84	16.0	80	15.1	-	80	4	5.3	443
70 to 74 years	425	38	8.8	36	8.4	-	36	2	4.7	388
75 years and over	697	25	3.6	24	3.4	-	24	1	(1)	672

¹ Data not shown where base is less than 35,000.

NOTE: Beginning in January 1999, data reflect revised population controls used in

the household survey.

4. Employment status of the Hispanic-origin population by age and sex

(Numbers in thousands)

Age and sex	1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
TOTAL										
16 years and over	21,650	14,665	67.7	13,720	63.4	734	12,986	945	6.4	6,985
16 to 19 years	2,307	1,049	45.5	854	37.0	45	809	196	18.6	1,257
16 to 17 years	1,113	333	29.9	254	22.8	13	241	79	23.7	780
18 to 19 years	1,194	717	60.0	600	50.2	32	568	117	16.3	477
20 to 24 years	2,700	2,052	76.0	1,881	69.7	128	1,753	171	8.3	648
25 years and over	16,644	11,563	69.5	10,985	66.0	562	10,423	578	5.0	5,080
25 to 54 years	13,213	10,437	79.0	9,910	75.0	508	9,402	527	5.0	2,776
25 to 34 years	5,512	4,330	78.6	4,097	74.3	209	3,888	233	5.4	1,182
35 to 44 years	4,833	3,929	81.3	3,738	77.4	189	3,549	190	4.8	904
45 to 54 years	2,868	2,178	75.9	2,074	72.3	110	1,964	104	4.8	690
55 years and over	3,431	1,127	32.8	1,075	31.3	54	1,022	51	4.6	2,304
55 to 64 years	1,713	927	54.1	886	51.7	42	844	42	4.5	786
65 years and over	1,718	199	11.6	190	11.0	12	178	10	5.0	1,518
Men										
16 years and over	10,713	8,546	79.8	8,067	75.3	642	7,425	480	5.6	2,167
16 to 19 years	1,190	596	50.1	491	41.2	40	450	106	17.8	594
16 to 17 years	571	181	31.8	139	24.3	12	127	42	23.4	390
18 to 19 years	619	415	67.0	352	56.8	28	324	63	15.3	204
20 to 24 years	1,398	1,231	88.1	1,135	81.2	115	1,020	96	7.8	166
25 years and over	8,125	6,719	82.7	6,441	79.3	487	5,955	277	4.1	1,407
25 to 54 years	6,609	6,056	91.6	5,810	87.9	435	5,375	246	4.1	553
25 to 34 years	2,805	2,633	93.9	2,524	90.0	182	2,342	109	4.1	172
35 to 44 years	2,407	2,219	92.2	2,135	88.7	161	1,974	83	3.8	189
45 to 54 years	1,397	1,205	86.2	1,151	82.4	91	1,060	54	4.5	192
55 years and over	1,516	662	43.7	631	41.6	52	579	31	4.7	853
55 to 64 years	767	526	68.6	502	65.4	40	462	24	4.6	241
65 years and over	749	136	18.2	130	17.3	12	117	7	5.0	613
Women										
16 years and over	10,937	6,119	55.9	5,653	51.7	92	5,561	466	7.6	4,819
16 to 19 years	1,116	453	40.6	363	32.5	5	359	90	19.8	664
16 to 17 years	542	151	27.9	115	21.2	1	114	36	24.0	391
18 to 19 years	575	302	52.5	248	43.2	4	245	54	17.7	273
20 to 24 years	1,302	821	63.0	746	57.3	13	733	75	9.1	481
25 years and over	8,519	4,845	56.9	4,544	53.3	75	4,469	301	6.2	3,674
25 to 54 years	6,603	4,380	66.3	4,100	62.1	73	4,026	281	6.4	2,223
25 to 34 years	2,707	1,698	62.7	1,574	58.1	27	1,546	124	7.3	1,010
35 to 44 years	2,425	1,710	70.5	1,603	66.1	27	1,575	107	6.3	716
45 to 54 years	1,470	973	66.2	923	62.8	19	905	50	5.1	498
55 years and over	1,915	464	24.3	444	23.2	2	443	20	4.3	1,451
55 to 64 years	947	401	42.4	384	40.6	2	382	17	4.3	545
65 years and over	969	63	6.5	60	6.2	-	60	3	4.8	906

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
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5. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	1998	1999	1998	1999	1998	1999	1998	1999
TOTAL								
Civilian noninstitutional population	205,220	207,753	171,478	173,085	24,373	24,855	21,070	21,650
Civilian labor force	137,673	139,368	115,415	116,509	15,982	16,365	14,317	14,665
Percent of population	67.1	67.1	67.3	67.3	65.6	65.8	67.9	67.7
Employed	131,463	133,488	110,931	112,235	14,556	15,056	13,291	13,720
Agriculture	3,378	3,281	3,160	3,083	138	117	742	734
Nonagricultural industries	128,085	130,207	107,770	109,152	14,417	14,939	12,549	12,986
Unemployed	6,210	5,880	4,484	4,273	1,426	1,309	1,026	945
Unemployment rate	4.5	4.2	3.9	3.7	8.9	8.0	7.2	6.4
Not in labor force	67,547	68,385	56,064	56,577	8,391	8,490	6,753	6,985
Men, 16 years and over								
Civilian noninstitutional population	98,758	99,722	83,352	83,930	10,927	11,143	10,734	10,713
Civilian labor force	73,959	74,512	63,034	63,413	7,542	7,652	8,571	8,546
Percent of population	74.9	74.7	75.6	75.6	69.0	68.7	79.8	79.8
Employed	70,693	71,446	60,604	61,139	6,871	7,027	8,018	8,067
Agriculture	2,553	2,432	2,376	2,273	118	99	651	642
Nonagricultural industries	68,140	69,014	58,228	58,866	6,752	6,928	7,367	7,425
Unemployed	3,266	3,066	2,431	2,274	671	626	552	480
Unemployment rate	4.4	4.1	3.9	3.6	8.9	8.2	6.4	5.6
Not in labor force	24,799	25,210	20,317	20,517	3,386	3,491	2,164	2,167
Men, 20 years and over								
Civilian noninstitutional population	90,790	91,555	76,966	77,432	9,727	9,926	9,573	9,523
Civilian labor force	69,715	70,194	59,421	59,747	7,053	7,182	8,005	7,950
Percent of population	76.8	76.7	77.2	77.2	72.5	72.4	83.6	83.5
Employed	67,135	67,761	57,500	57,934	6,530	6,702	7,570	7,576
Agriculture	2,350	2,244	2,182	2,094	112	96	621	602
Nonagricultural industries	64,785	65,517	55,319	55,839	6,418	6,606	6,949	6,974
Unemployed	2,580	2,433	1,920	1,813	524	480	436	374
Unemployment rate	3.7	3.5	3.2	3.0	7.4	6.7	5.4	4.7
Not in labor force	21,075	21,362	17,545	17,685	2,673	2,743	1,568	1,573
Women, 16 years and over								
Civilian noninstitutional population	106,462	108,031	88,126	89,156	13,446	13,711	10,335	10,937
Civilian labor force	63,714	64,855	52,380	53,096	8,441	8,713	5,746	6,119
Percent of population	59.8	60.0	59.4	59.6	62.8	63.5	55.6	55.9
Employed	60,771	62,042	50,327	51,096	7,685	8,029	5,273	5,653
Agriculture	825	849	784	810	20	18	91	92
Nonagricultural industries	59,945	61,193	49,543	50,286	7,665	8,011	5,182	5,561
Unemployed	2,944	2,814	2,053	1,999	756	684	473	466
Unemployment rate	4.6	4.3	3.9	3.8	9.0	7.8	8.2	7.6
Not in labor force	42,748	43,175	35,746	36,060	5,005	4,999	4,589	4,819
Women, 20 years and over								
Civilian noninstitutional population	98,786	100,158	82,073	82,953	12,203	12,451	9,292	9,821
Civilian labor force	59,702	60,840	49,029	49,714	7,912	8,224	5,304	5,666
Percent of population	60.4	60.7	59.7	59.9	64.8	66.1	57.1	57.7
Employed	57,278	58,555	47,342	48,098	7,290	7,663	4,928	5,290
Agriculture	768	803	729	765	19	17	85	88
Nonagricultural industries	56,510	57,752	46,612	47,333	7,272	7,646	4,843	5,202
Unemployed	2,424	2,285	1,688	1,616	622	561	376	376
Unemployment rate	4.1	3.8	3.4	3.3	7.9	6.8	7.1	6.6
Not in labor force	39,084	39,318	33,044	33,239	4,291	4,226	3,988	4,155
Both sexes, 16 to 19 years								
Civilian noninstitutional population	15,644	16,040	12,439	12,700	2,443	2,479	2,204	2,307
Civilian labor force	8,256	8,333	6,965	7,048	1,017	959	1,007	1,049
Percent of population	52.8	52.0	56.0	55.5	41.6	38.7	45.7	45.5
Employed	7,051	7,172	6,089	6,204	736	691	793	854
Agriculture	261	234	250	224	8	4	36	45
Nonagricultural industries	6,790	6,938	5,839	5,980	728	687	757	809
Unemployed	1,205	1,162	876	844	281	268	214	196
Unemployment rate	14.6	13.9	12.6	12.0	27.6	27.9	21.3	18.6
Not in labor force	7,388	7,706	5,475	5,652	1,427	1,520	1,197	1,257

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

6. Employment status of the Mexican, Puerto Rican, and Cuban-origin population by sex and age

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1998	1999	1998	1999	1998	1999	1998	1999
TOTAL								
Civilian noninstitutional population	21,070	21,650	13,216	13,582	2,080	2,058	1,062	1,141
Civilian labor force	14,317	14,665	9,096	9,267	1,249	1,269	651	714
Percent of population	67.9	67.7	68.8	68.2	60.0	61.6	61.3	62.6
Employed	13,291	13,720	8,431	8,656	1,145	1,165	612	681
Agriculture	742	734	662	666	10	7	6	6
Nonagricultural industries	12,549	12,986	7,769	7,990	1,135	1,158	606	675
Unemployed	1,026	945	664	611	104	104	39	33
Unemployment rate	7.2	6.4	7.3	6.6	8.3	8.2	6.0	4.6
Not in labor force	6,753	6,985	4,121	4,315	832	789	411	427
Men, 16 years and over								
Civilian noninstitutional population	10,734	10,713	6,937	6,939	975	946	527	568
Civilian labor force	8,571	8,546	5,660	5,637	672	657	387	426
Percent of population	79.8	79.8	81.6	81.2	68.9	69.5	73.5	75.1
Employed	8,018	8,067	5,291	5,312	615	607	371	408
Agriculture	651	642	579	582	8	6	5	4
Nonagricultural industries	7,367	7,425	4,712	4,731	607	601	366	403
Unemployed	552	480	369	324	57	50	16	19
Unemployment rate	6.4	5.6	6.5	5.8	8.5	7.6	4.1	4.4
Not in labor force	2,164	2,167	1,276	1,302	303	289	140	142
Men, 20 years and over								
Civilian noninstitutional population	9,573	9,523	6,139	6,105	872	841	499	533
Civilian labor force	8,005	7,950	5,244	5,196	632	613	372	411
Percent of population	83.6	83.5	85.4	85.1	72.4	72.9	74.6	77.2
Employed	7,570	7,576	4,959	4,948	586	574	359	396
Agriculture	621	602	551	544	8	6	5	4
Nonagricultural industries	6,949	6,974	4,408	4,404	578	568	354	392
Unemployed	436	374	285	249	46	39	13	15
Unemployment rate	5.4	4.7	5.4	4.8	7.3	6.4	3.6	3.8
Not in labor force	1,568	1,573	895	909	241	228	127	121
Women, 16 years and over								
Civilian noninstitutional population	10,335	10,937	6,280	6,643	1,105	1,112	535	573
Civilian labor force	5,746	6,119	3,435	3,630	576	611	264	287
Percent of population	55.6	55.9	54.7	54.6	52.2	55.0	49.2	50.2
Employed	5,273	5,653	3,140	3,344	529	557	241	273
Agriculture	91	92	83	84	2	1	1	2
Nonagricultural industries	5,182	5,561	3,057	3,259	528	557	240	271
Unemployed	473	466	296	287	47	54	23	14
Unemployment rate	8.2	7.6	8.6	7.9	8.2	8.8	8.6	4.8
Not in labor force	4,589	4,819	2,844	3,013	529	500	272	285
Women, 20 years and over								
Civilian noninstitutional population	9,292	9,821	5,555	5,877	1,003	1,004	509	549
Civilian labor force	5,304	5,666	3,119	3,319	530	571	252	279
Percent of population	57.1	57.7	56.1	56.5	52.8	56.9	49.6	50.8
Employed	4,928	5,290	2,897	3,092	493	529	231	266
Agriculture	85	88	77	80	2	1	1	2
Nonagricultural industries	4,843	5,202	2,820	3,012	491	528	230	263
Unemployed	376	376	221	227	37	43	22	13
Unemployment rate	7.1	6.6	7.1	6.8	7.0	7.5	8.6	4.7
Not in labor force	3,988	4,155	2,436	2,558	473	432	257	270
Both sexes, 16 to 19 years								
Civilian noninstitutional population	2,204	2,307	1,523	1,600	205	213	54	59
Civilian labor force	1,007	1,049	733	752	87	84	26	24
Percent of population	45.7	45.5	48.1	47.0	42.5	39.3	48.1	39.9
Employed	793	854	575	617	66	62	22	20
Agriculture	36	45	34	42	1	-	-	-
Nonagricultural industries	757	809	541	574	65	61	22	20
Unemployed	214	196	158	135	21	22	4	4
Unemployment rate	21.3	18.6	21.5	18.0	24.1	26.3	(²)	(²)
Not in labor force	1,197	1,257	790	848	118	129	28	36

¹ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

² Data not shown where base is less than 35,000.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

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7. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, sex, race, and Hispanic origin

(Numbers in thousands)

Educational attainment	Total		Men		Women		White		Black		Hispanic origin	
	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
TOTAL												
Civilian noninstitutional population ...	171,983	173,746	81,986	82,657	89,997	91,089	144,900	145,992	19,384	19,761	16,134	16,644
Civilian labor force	115,779	117,101	62,494	62,903	53,285	54,198	97,206	98,025	13,168	13,540	11,232	11,563
Percent of population	67.3	67.4	76.2	76.1	59.2	59.5	67.1	67.1	67.9	68.5	69.6	69.5
Employed	111,855	113,425	60,497	61,032	51,359	52,392	94,330	95,316	12,324	12,771	10,615	10,985
Employment-population ratio	65.0	65.3	73.8	73.8	57.1	57.5	65.1	65.3	63.6	64.6	65.8	66.0
Unemployed	3,924	3,676	1,998	1,870	1,926	1,805	2,877	2,709	844	768	617	578
Unemployment rate	3.4	3.1	3.2	3.0	3.6	3.3	3.0	2.8	6.4	5.7	5.5	5.0
Less than a high school diploma												
Civilian noninstitutional population ...	29,375	28,337	13,975	13,388	15,400	14,948	23,557	22,765	4,459	4,247	7,138	7,189
Civilian labor force	12,561	12,110	7,711	7,347	4,850	4,763	10,146	9,815	1,785	1,684	4,191	4,226
Percent of population	42.8	42.7	55.2	54.9	31.5	31.9	43.1	43.1	40.0	39.6	58.7	58.8
Employed	11,673	11,294	7,238	6,921	4,435	4,372	9,510	9,235	1,579	1,488	3,889	3,926
Employment-population ratio	39.7	39.9	51.8	51.7	28.8	29.2	40.4	40.6	35.4	35.0	54.5	54.6
Unemployed	887	817	472	426	415	391	635	580	207	196	303	300
Unemployment rate	7.1	6.7	6.1	5.8	8.6	8.2	6.3	5.9	11.6	11.6	7.2	7.1
High school graduates, no college												
Civilian noninstitutional population ...	57,524	57,559	26,212	26,158	31,313	31,402	48,709	48,629	6,910	7,008	4,296	4,566
Civilian labor force	37,465	37,327	19,961	19,785	17,504	17,542	31,313	31,145	4,864	4,944	3,195	3,370
Percent of population	65.1	64.8	76.2	75.6	55.9	55.9	64.3	64.0	70.4	70.5	74.4	73.8
Employed	35,976	36,017	19,188	19,125	16,788	16,893	30,249	30,211	4,504	4,631	3,018	3,213
Employment-population ratio	62.5	62.6	73.2	73.1	53.6	53.8	62.1	62.1	65.2	66.1	70.2	70.4
Unemployed	1,489	1,310	773	661	717	649	1,064	934	360	313	177	158
Unemployment rate	4.0	3.5	3.9	3.3	4.1	3.7	3.4	3.0	7.4	6.3	5.5	4.7
Less than a bachelor's degree¹												
Civilian noninstitutional population ...	42,261	43,358	19,488	19,997	22,773	23,360	35,643	36,349	5,042	5,318	2,934	3,049
Civilian labor force	31,412	32,115	15,860	16,212	15,552	15,903	26,211	26,621	4,000	4,219	2,373	2,437
Percent of population	74.3	74.1	81.4	81.1	68.3	68.1	73.5	73.2	79.3	79.3	80.9	79.9
Employed	30,477	31,209	15,415	15,778	15,062	15,430	25,527	25,944	3,795	4,032	2,282	2,356
Employment-population ratio	72.1	72.0	79.1	78.9	66.1	66.1	71.6	71.4	75.3	75.8	77.8	77.3
Unemployed	935	906	445	434	489	473	685	677	204	187	91	81
Unemployment rate	3.0	2.8	2.8	2.7	3.1	3.0	2.6	2.5	5.1	4.4	3.8	3.3
Some college, no degree												
Civilian noninstitutional population ...	29,526	30,111	13,883	14,192	15,642	15,919	24,715	25,077	3,768	3,895	2,120	2,205
Civilian labor force	21,311	21,778	11,018	11,251	10,293	10,527	17,592	17,863	2,938	3,067	1,689	1,755
Percent of population	72.2	72.3	79.4	79.3	65.8	66.1	71.2	71.2	78.0	78.7	79.7	79.6
Employed	20,626	21,129	10,684	10,941	9,943	10,189	17,101	17,388	2,776	2,924	1,622	1,696
Employment-population ratio	69.9	70.2	77.0	77.1	63.6	64.0	69.2	69.3	73.7	75.1	76.5	76.9
Unemployed	684	648	335	310	350	338	491	475	162	143	68	60
Unemployment rate	3.2	3.0	3.0	2.8	3.4	3.2	2.8	2.7	5.5	4.7	4.0	3.4
Associate degree												
Civilian noninstitutional population ...	12,735	13,247	5,604	5,806	7,131	7,441	10,928	11,272	1,273	1,423	814	844
Civilian labor force	10,101	10,337	4,842	4,961	5,259	5,376	8,619	8,758	1,061	1,152	683	682
Percent of population	79.3	78.0	86.4	85.4	73.7	72.2	78.9	77.7	83.4	81.0	84.0	80.8
Employed	9,850	10,079	4,731	4,838	5,119	5,242	8,426	8,556	1,020	1,108	660	660
Employment-population ratio	77.3	76.1	84.4	83.3	71.8	70.4	77.1	75.9	80.1	77.9	81.1	78.3
Unemployed	251	258	111	123	140	134	193	202	42	44	23	21
Unemployment rate	2.5	2.5	2.3	2.5	2.7	2.5	2.2	2.3	3.9	3.8	3.4	3.1
College graduates												
Civilian noninstitutional population ...	42,822	44,492	22,312	23,113	20,510	21,379	36,991	38,249	2,973	3,188	1,766	1,840
Civilian labor force	34,342	35,548	18,963	19,558	15,379	15,990	29,537	30,444	2,520	2,693	1,474	1,530
Percent of population	80.2	79.9	85.0	84.6	75.0	74.8	79.8	79.6	84.7	84.5	83.4	83.2
Employed	33,730	34,905	18,656	19,208	15,074	15,697	29,044	29,925	2,446	2,621	1,427	1,491
Employment-population ratio	78.8	78.5	83.6	83.1	73.5	73.4	78.5	78.2	82.3	82.2	80.8	81.0
Unemployed	612	643	307	350	305	293	493	519	74	73	47	39
Unemployment rate	1.8	1.8	1.6	1.8	2.0	1.8	1.7	1.7	2.9	2.7	3.2	2.6

¹ Includes the categories, some college, no degree, and associate degree.
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. Beginning in January 1999, data reflect revised population controls used in the household survey.

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

(Numbers in thousands)

Age, sex, and race	1999									
	Employed ¹								Unemployed	
	Full-time workers				Part-time workers				Looking for full-time work	Looking for part-time work
	Total	At work		Not at work	Total	At work ²		Not at work		
		35 hours or more	1 to 34 hours for economic or noneconomic reasons			Part time for economic reasons	Part time for noneconomic reasons			
TOTAL										
Total, 16 years and over	110,302	96,276	10,079	3,947	23,186	2,216	19,509	1,461	4,669	1,211
16 to 19 years	2,386	2,007	326	53	4,786	277	4,322	187	575	587
16 to 17 years	353	279	62	11	2,440	64	2,287	90	158	386
18 to 19 years	2,033	1,727	264	42	2,346	213	2,035	97	417	201
20 years and over	107,917	94,270	9,754	3,893	18,399	1,939	15,187	1,273	4,094	624
20 to 24 years	9,568	8,424	909	235	3,323	419	2,753	152	876	167
25 years and over	98,349	85,846	8,845	3,658	15,076	1,520	12,434	1,122	3,218	458
25 to 54 years	85,529	74,991	7,515	3,023	10,699	1,336	8,605	758	2,867	319
55 years and over	12,820	10,855	1,330	635	4,376	184	3,829	363	351	139
Men, 16 years and over	63,930	57,034	4,971	1,924	7,516	946	6,178	392	2,548	518
16 to 19 years	1,416	1,208	182	27	2,269	137	2,051	81	327	307
20 years and over	62,514	55,827	4,790	1,897	5,247	809	4,127	311	2,222	211
20 to 24 years	5,371	4,823	441	107	1,357	211	1,091	55	488	74
25 years and over	57,142	51,004	4,348	1,790	3,890	598	3,036	256	1,733	137
25 to 54 years	49,428	44,351	3,636	1,441	2,068	511	1,441	116	1,526	71
55 years and over	7,715	6,653	712	350	1,822	87	1,595	140	207	66
Women, 16 years and over	46,372	39,242	5,108	2,022	15,670	1,270	13,330	1,069	2,121	693
16 to 19 years	969	799	144	26	2,517	139	2,271	107	248	280
20 years and over	45,403	38,443	4,964	1,996	13,152	1,131	11,059	962	1,872	413
20 to 24 years	4,196	3,601	468	128	1,966	208	1,661	97	387	93
25 years and over	41,207	34,842	4,496	1,868	11,186	922	9,398	866	1,485	320
25 to 54 years	36,101	30,641	3,878	1,582	8,631	825	7,164	642	1,341	248
55 years and over	5,106	4,202	618	286	2,555	97	2,234	224	145	72
White										
Men, 16 years and over	54,756	48,834	4,274	1,647	6,383	730	5,314	339	1,883	391
16 to 19 years	1,242	1,070	151	22	1,963	111	1,780	71	232	228
20 years and over	53,513	47,764	4,124	1,626	4,420	618	3,534	268	1,651	162
20 to 24 years	4,629	4,162	377	91	1,124	162	917	45	342	56
25 years and over	48,884	43,603	3,747	1,534	3,296	456	2,616	224	1,309	107
25 to 54 years	42,025	37,697	3,109	1,219	1,653	386	1,171	96	1,133	50
55 years and over	6,859	5,905	638	316	1,643	70	1,446	128	176	57
Women, 16 years and over	37,417	31,577	4,157	1,684	13,679	947	11,768	964	1,469	530
16 to 19 years	815	672	121	22	2,184	108	1,979	97	172	211
20 years and over	36,602	30,905	4,036	1,662	11,496	839	9,789	867	1,297	319
20 to 24 years	3,357	2,885	369	103	1,606	161	1,367	78	255	67
25 years and over	33,245	28,020	3,666	1,559	9,890	679	8,422	789	1,042	252
25 to 54 years	28,888	24,447	3,132	1,309	7,601	602	6,418	581	925	195
55 years and over	4,357	3,573	534	250	2,289	76	2,004	208	117	57
Black										
Men, 16 years and over	6,263	5,574	494	196	764	163	568	33	528	97
16 to 19 years	123	96	23	3	202	21	176	6	83	63
20 years and over	6,140	5,477	471	192	561	142	392	27	446	35
20 to 24 years	544	485	48	11	156	39	110	7	124	11
25 years and over	5,596	4,992	423	181	405	103	282	20	322	24
25 to 54 years	5,061	4,529	373	160	283	96	176	11	300	17
55 years and over	535	463	50	22	122	7	106	9	21	7
Women, 16 years and over	6,641	5,651	734	256	1,388	257	1,059	72	554	130
16 to 19 years	122	102	17	3	244	27	210	7	68	55
20 years and over	6,519	5,549	717	252	1,145	230	850	65	486	75
20 to 24 years	643	549	74	20	250	40	196	14	117	21
25 years and over	5,876	5,000	643	233	894	190	653	51	369	54
25 to 54 years	5,326	4,543	579	204	696	176	479	41	349	43
55 years and over	550	456	64	29	198	14	174	10	20	12

¹ Employed persons are classified as full- or part-time workers based on their usual weekly hours at all jobs regardless of the number of hours they are at work during the reference week. Persons absent from work also are classified according to their usual status.

² Includes some persons at work 35 hours or more classified by their reason for working part time.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

9. Employed persons by occupation, sex, and age

(Numbers 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	
	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
Total	131,463	133,488	70,693	71,446	67,135	67,761	60,771	62,042	57,278	58,555
Managerial and professional specialty	38,937	40,467	19,867	20,446	19,738	20,285	19,070	20,021	18,890	19,846
Executive, administrative, and managerial	19,054	19,584	10,585	10,744	10,534	10,682	8,469	8,840	8,407	8,784
Officials and administrators, public administration	719	745	389	381	388	381	330	364	329	363
Other executive, administrative, and managerial	13,635	13,960	8,181	8,303	8,137	8,245	5,454	5,657	5,406	5,616
Management-related occupations	4,700	4,879	2,015	2,060	2,008	2,056	2,685	2,819	2,672	2,805
Professional specialty	19,883	20,883	9,282	9,702	9,204	9,603	10,602	11,181	10,483	11,062
Engineers	2,052	2,081	1,824	1,860	1,822	1,857	228	221	228	221
Mathematical and computer scientists	1,747	1,847	1,243	1,272	1,235	1,267	505	575	501	575
Natural scientists	519	578	359	404	359	404	161	174	160	173
Health diagnosing occupations	1,083	1,071	798	813	797	813	285	258	284	257
Health assessment and treating occupations	2,898	3,019	428	431	427	430	2,470	2,588	2,467	2,582
Teachers, college and university	919	978	530	563	524	558	389	414	384	407
Teachers, except college and university	4,962	5,277	1,225	1,325	1,208	1,301	3,737	3,952	3,683	3,898
Lawyers and judges	951	964	679	685	678	685	272	279	272	278
Other professional specialty occupations	4,750	5,068	2,196	2,348	2,154	2,289	2,555	2,721	2,502	2,670
Technical, sales, and administrative support	38,521	38,921	13,792	14,079	12,973	13,155	24,728	24,842	22,893	23,049
Technicians and related support	4,261	4,355	1,976	2,094	1,938	2,047	2,285	2,261	2,251	2,216
Health technologists and technicians	1,733	1,701	319	320	312	313	1,414	1,380	1,400	1,352
Engineering and science technicians	1,255	1,266	930	961	908	935	325	305	314	295
Technicians, except health, engineering, and science	1,273	1,388	728	813	718	798	545	576	537	570
Sales occupations	15,850	16,118	7,875	8,049	7,324	7,439	7,975	8,069	6,778	6,946
Supervisors and proprietors	4,719	4,896	2,829	2,891	2,809	2,868	1,890	2,005	1,855	1,975
Sales representatives, finance and business services	2,668	2,735	1,504	1,534	1,470	1,511	1,165	1,201	1,126	1,169
Sales representatives, commodities, except retail	1,584	1,526	1,173	1,118	1,166	1,112	411	408	402	397
Sales workers, retail and personal services	6,784	6,866	2,344	2,476	1,855	1,918	4,440	4,391	3,330	3,344
Sales-related occupations	94	95	26	31	24	30	68	64	66	61
Administrative support, including clerical	18,410	18,448	3,941	3,936	3,711	3,669	14,469	14,512	13,863	13,887
Supervisors	698	675	279	287	277	285	419	388	417	386
Computer equipment operators	375	356	170	153	166	143	205	203	202	200
Secretaries, stenographers, and typists	3,599	3,457	85	73	80	68	3,515	3,383	3,415	3,294
Financial records processing	2,214	2,181	175	200	166	190	2,039	1,982	2,008	1,952
Mail and message distributing	984	990	611	572	595	551	374	417	362	405
Other administrative support, including clerical	10,539	10,789	2,622	2,650	2,428	2,432	7,917	8,138	7,459	7,650
Service occupations	17,836	17,915	7,222	7,093	6,237	6,093	10,614	10,822	9,436	9,599
Private household	847	831	46	40	40	33	801	791	708	701
Protective service	2,417	2,440	1,986	1,980	1,948	1,921	431	460	385	415
Service, except private household and protective	14,572	14,644	5,190	5,074	4,249	4,138	9,382	9,570	8,343	8,482
Food service	6,071	6,091	2,639	2,576	1,919	1,860	3,432	3,516	2,726	2,772
Health service	2,480	2,521	285	273	266	259	2,194	2,249	2,097	2,149
Cleaning and building service	3,112	3,021	1,728	1,647	1,597	1,530	1,384	1,373	1,317	1,308
Personal service	2,909	3,011	537	578	467	489	2,371	2,433	2,203	2,254
Precision production, craft, and repair	14,411	14,593	13,208	13,286	12,878	12,974	1,203	1,307	1,181	1,270
Mechanics and repairers	4,786	4,868	4,592	4,633	4,475	4,532	194	235	191	227
Construction trades	5,594	5,801	5,485	5,654	5,319	5,486	109	148	104	140
Other precision production, craft, and repair	4,031	3,923	3,131	2,999	3,084	2,956	900	924	886	903
Operators, fabricators, and laborers	18,256	18,167	13,769	13,793	12,736	12,748	4,487	4,374	4,264	4,161
Machine operators, assemblers, and inspectors	7,791	7,386	4,882	4,637	4,695	4,459	2,909	2,749	2,826	2,672
Transportation and material moving occupations	5,363	5,516	4,818	4,968	4,703	4,845	545	548	531	535
Motor vehicle operators	4,069	4,202	3,601	3,718	3,517	3,619	468	484	455	472
Other transportation and material moving occupations	1,294	1,314	1,217	1,250	1,187	1,226	77	64	76	63
Handlers, equipment cleaners, helpers, and laborers	5,102	5,265	4,069	4,188	3,338	3,444	1,033	1,077	908	954
Construction laborers	821	920	784	882	706	797	37	38	35	35
Other handlers, equipment cleaners, helpers, and laborers	4,282	4,346	3,285	3,306	2,632	2,647	996	1,039	873	918
Farming, forestry, and fishing	3,502	3,426	2,835	2,749	2,572	2,506	668	676	614	631
Farm operators and managers	1,187	1,134	913	855	905	848	274	280	270	278
Other farming, forestry, and fishing occupations	2,315	2,292	1,921	1,895	1,666	1,658	394	397	343	352

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

10. Employed persons by occupation, race, and sex

(Percent distribution)

Occupation and race	Total		Men		Women	
	1998	1999	1998	1999	1998	1999
TOTAL						
Total, 16 years and over (thousands)	131,463	133,488	70,693	71,446	60,771	62,042
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	29.6	30.3	28.1	28.6	31.4	32.3
Executive, administrative, and managerial	14.5	14.7	15.0	15.0	13.9	14.2
Professional specialty	15.1	15.6	13.1	13.6	17.4	18.0
Technical, sales, and administrative support	29.3	29.2	19.5	19.7	40.7	40.0
Technicians and related support	3.2	3.3	2.8	2.9	3.8	3.6
Sales occupations	12.1	12.1	11.1	11.3	13.1	13.0
Administrative support, including clerical	14.0	13.8	5.6	5.5	23.8	23.4
Service occupations	13.6	13.4	10.2	9.9	17.5	17.4
Private household	.6	.6	.1	.1	1.3	1.3
Protective service	1.8	1.8	2.8	2.8	.7	.7
Service, except private household and protective	11.1	11.0	7.3	7.1	15.4	15.4
Precision production, craft, and repair	11.0	10.9	18.7	18.6	2.0	2.1
Operators, fabricators, and laborers	13.9	13.6	19.5	19.3	7.4	7.0
Machine operators, assemblers, and inspectors	5.9	5.5	6.9	6.5	4.8	4.4
Transportation and material moving occupations	4.1	4.1	6.8	7.0	.9	.9
Handlers, equipment cleaners, helpers, and laborers	3.9	3.9	5.8	5.9	1.7	1.7
Farming, forestry, and fishing	2.7	2.6	4.0	3.8	1.1	1.1
White						
Total, 16 years and over (thousands)	110,931	112,235	60,604	61,139	50,327	51,096
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	30.7	31.3	29.1	29.5	32.6	33.4
Executive, administrative, and managerial	15.2	15.4	15.8	15.9	14.6	14.7
Professional specialty	15.5	15.9	13.3	13.6	18.1	18.7
Technical, sales, and administrative support	29.3	29.2	19.5	19.7	41.1	40.6
Technicians and related support	3.2	3.2	2.7	2.9	3.8	3.6
Sales occupations	12.4	12.4	11.5	11.7	13.4	13.3
Administrative support, including clerical	13.7	13.5	5.2	5.1	24.0	23.6
Service occupations	12.4	12.2	9.2	8.9	16.3	16.2
Private household	.6	.6	.1	(¹)	1.3	1.3
Protective service	1.7	1.7	2.6	2.6	.6	.6
Service, except private household and protective	10.1	10.0	6.5	6.3	14.4	14.3
Precision production, craft, and repair	11.5	11.5	19.4	19.4	1.9	2.1
Operators, fabricators, and laborers	13.2	13.0	18.5	18.3	6.8	6.5
Machine operators, assemblers, and inspectors	5.5	5.2	6.6	6.2	4.3	4.0
Transportation and material moving occupations	3.9	4.0	6.5	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers	3.7	3.8	5.4	5.5	1.6	1.7
Farming, forestry, and fishing	2.9	2.8	4.3	4.1	1.2	1.2
Black						
Total, 16 years and over (thousands)	14,556	15,056	6,871	7,027	7,685	8,029
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	20.2	21.5	17.0	18.0	23.2	24.5
Executive, administrative, and managerial	9.4	9.9	8.6	8.5	10.1	11.1
Professional specialty	10.8	11.6	8.4	9.5	13.0	13.5
Technical, sales, and administrative support	29.3	28.9	18.3	18.4	39.1	38.2
Technicians and related support	3.0	3.1	2.5	2.7	3.5	3.5
Sales occupations	9.7	9.3	7.8	7.6	11.4	10.8
Administrative support, including clerical	16.5	16.5	8.0	8.1	24.2	23.9
Service occupations	21.6	21.8	17.8	17.4	25.0	25.6
Private household	.8	.8	.1	.1	1.5	1.5
Protective service	3.2	3.2	4.8	4.9	1.7	1.8
Service, except private household and protective	17.6	17.7	12.9	12.4	21.9	22.4
Precision production, craft, and repair	8.0	7.8	14.6	14.3	2.0	2.1
Operators, fabricators, and laborers	19.7	18.9	30.1	29.8	10.4	9.4
Machine operators, assemblers, and inspectors	8.2	7.6	9.7	9.3	7.0	6.1
Transportation and material moving occupations	6.0	5.8	11.1	11.0	1.4	1.3
Handlers, equipment cleaners, helpers, and laborers	5.5	5.5	9.3	9.5	2.0	2.0
Farming, forestry, and fishing	1.2	1.1	2.2	2.2	.3	.2

¹ Less than 0.05 percent.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

**HOUSEHOLD DATA
ANNUAL AVERAGES**

11. Employed persons by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	133,488	46.5	11.3	10.3
Managerial and professional specialty	40,467	49.5	8.0	5.0
Executive, administrative, and managerial	19,584	45.1	7.6	5.6
Officials and administrators, public administration	655	51.1	14.0	4.9
Administrators, protective services	51	27.8	11.2	3.6
Financial managers	753	51.1	7.0	5.4
Personnel and labor relations managers	196	60.4	10.9	6.3
Purchasing managers	138	47.4	8.9	5.6
Managers, marketing, advertising, and public relations	739	37.6	4.8	2.7
Administrators, education and related fields	821	62.5	15.0	4.8
Managers, medicine and health	716	77.4	8.9	6.6
Postmasters and mail superintendents	50	55.4	9.9	3.8
Managers, food serving and lodging establishments	1,489	46.1	7.5	8.6
Managers, properties and real estate	577	49.4	6.6	8.9
Management-related occupations	4,879	57.8	9.8	5.3
Accountants and auditors	1,658	58.6	9.6	4.9
Underwriters	131	68.7	14.5	1.7
Other financial officers	808	51.6	9.5	4.5
Management analysts	432	43.2	7.6	3.6
Personnel, training, and labor relations specialists	542	68.5	11.4	5.3
Buyers, wholesale and retail trade, except farm products	193	54.5	6.3	7.4
Construction inspectors	69	10.6	1.9	12.8
Inspectors and compliance officers, except construction	254	33.7	15.1	6.7
Professional specialty	20,883	53.5	8.4	4.5
Engineers, architects, and surveyors	2,291	11.0	4.4	3.6
Architects	194	15.7	2.3	4.4
Engineers	2,081	10.6	4.6	3.5
Aerospace engineers	79	11.5	7.5	4.8
Chemical engineers	82	16.3	2.7	5.0
Civil engineers	287	9.5	5.5	3.3
Electrical and electronic engineers	639	10.1	6.1	4.1
Industrial engineers	260	16.8	4.1	3.2
Mechanical engineers	340	7.1	1.9	2.4
Mathematical and computer scientists	1,847	31.1	7.5	3.6
Computer systems analysts and scientists	1,549	28.5	7.4	3.4
Operations and systems researchers and analysts	241	46.6	8.4	5.2
Natural scientists	578	30.1	3.7	3.6
Chemists, except biochemists	136	27.4	5.7	3.5
Geologists and geodesists	56	4.9	-	3.2
Biological and life scientists	109	43.8	3.2	4.1
Medical scientists	100	44.9	6.1	5.3
Health diagnosing occupations	1,071	24.1	4.4	4.1
Physicians	720	24.5	5.7	4.8
Dentists	173	16.5	1.9	3.1
Veterinarians	53	27.3	2.3	-
Health assessment and treating occupations	3,019	85.7	9.1	3.4
Registered nurses	2,128	92.9	9.6	3.1
Pharmacists	216	49.0	5.6	3.5
Dietitians	92	84.0	19.5	4.6
Therapists	517	75.8	7.5	4.5
Respiratory therapists	90	60.6	17.6	3.3
Occupational therapists	71	86.9	5.5	2.2
Physical therapists	144	73.2	5.3	5.3
Speech therapists	99	93.1	1.1	4.2
Physicians' assistants	67	52.6	4.3	2.6
Teachers, college and university	978	42.4	6.5	4.2
Teachers, except college and university	5,277	74.9	9.9	5.4
Prekindergarten and kindergarten	600	98.4	13.4	8.2
Elementary school	2,072	83.8	10.3	5.1
Secondary school	1,342	57.5	7.9	5.0
Special education	369	84.4	9.1	2.8
Counselors, educational and vocational	247	68.7	18.1	5.7
Librarians, archivists, and curators	264	82.9	7.6	4.8
Librarians	236	83.7	7.7	4.8
Social scientists and urban planners	460	58.4	8.1	3.1
Economists	141	51.2	6.1	1.9
Psychologists	266	64.9	9.9	3.5

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Social, recreation, and religious workers	1,435	56.4	18.5	6.3
Social workers	813	71.4	24.2	7.4
Recreation workers	128	66.4	18.0	7.0
Clergy	352	14.2	10.3	5.2
Lawyers and judges	964	28.9	5.2	3.9
Lawyers	923	28.8	5.1	4.0
Writers, artists, entertainers, and athletes	2,454	49.9	6.6	5.3
Authors	148	55.2	7.3	2.3
Technical writers	71	60.2	5.7	.1
Designers	722	56.2	3.7	5.5
Musicians and composers	172	35.6	9.2	7.1
Actors and directors	129	38.8	10.7	5.1
Painters, sculptors, craft artists, and artist printmakers	252	54.8	5.2	3.8
Photographers	166	34.5	7.1	8.2
Editors and reporters	290	49.8	4.5	2.7
Public relations specialists	190	61.0	7.5	4.9
Announcers	50	21.4	8.9	9.2
Athletes	110	28.0	19.0	3.4
Technical, sales, and administrative support	38,921	63.8	11.2	8.4
Technicians and related support	4,355	51.9	10.7	6.4
Health technologists and technicians	1,701	81.2	14.4	7.3
Clinical laboratory technologists and technicians	338	78.5	19.4	5.6
Dental hygienists	106	99.1	2.8	1.5
Radiologic technicians	167	74.4	9.7	4.1
Licensed practical nurses	357	95.1	18.4	5.8
Engineering and related technologists and technicians	973	19.1	9.7	6.2
Electrical and electronic technicians	437	14.5	11.3	6.5
Drafting occupations	235	18.3	6.5	5.6
Surveying and mapping technicians	67	11.0	4.5	7.9
Science technicians	293	40.8	11.0	7.3
Biological technicians	106	64.1	6.8	4.8
Chemical technicians	79	28.9	14.9	9.9
Technicians, except health, engineering, and science	1,388	41.5	7.0	5.3
Airplane pilots and navigators	143	3.1	2.7	4.3
Computer programmers	665	26.3	6.4	3.8
Legal assistants	403	83.9	8.7	7.1
Sales occupations	16,118	50.1	8.7	7.9
Supervisors and proprietors	4,896	40.9	6.1	6.8
Sales representatives, finance and business services	2,735	43.9	7.2	5.0
Insurance sales	585	44.0	5.8	4.6
Real estate sales	769	53.2	5.5	5.0
Securities and financial services sales	541	28.5	6.8	3.7
Advertising and related sales	187	57.1	11.9	4.1
Sales occupations, other business services	653	41.9	9.5	6.4
Sales representatives, commodities, except retail	1,526	26.8	2.9	5.4
Sales representatives, mining, manufacturing, and wholesale	1,488	27.3	2.8	5.4
Sales workers, retail and personal services	6,866	63.9	12.5	10.4
Sales workers, motor vehicles and boats	320	10.7	7.1	8.6
Sales workers, apparel	411	77.7	13.7	11.7
Sales workers, shoes	129	53.9	22.4	14.1
Sales workers, furniture and home furnishings	181	52.0	2.7	7.9
Sales workers, radio, television, hi-fi, and appliances	302	27.2	7.0	9.3
Sales workers, hardware and building supplies	287	25.0	4.9	7.3
Sales workers, parts	173	10.1	5.7	14.5
Sales workers, other commodities	1,386	67.8	9.6	8.6
Sales counter clerks	198	63.3	8.8	7.4
Cashiers	3,014	77.0	16.7	12.0
Street and door-to-door sales workers	365	73.8	9.3	8.9
News vendors	101	45.8	9.5	3.0
Sales-related occupations	95	67.7	8.6	3.0
Demonstrators, promoters, and models	66	70.6	11.1	3.7
Administrative support occupations, including clerical	18,448	78.7	13.5	9.4
Supervisors, administrative support	675	57.5	17.5	8.2
Supervisors, general office	360	67.4	15.8	7.4
Supervisors, financial records processing	82	81.9	13.6	10.7
Supervisors, distribution, scheduling, and adjusting clerks	216	33.1	20.5	8.9
Computer equipment operators	356	57.0	13.9	7.2

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Computer operators	350	57.3	13.9	7.3
Secretaries, stenographers, and typists	3,457	97.9	10.4	7.8
Secretaries	2,781	98.6	9.5	7.7
Stenographers	120	92.5	5.4	5.7
Typists	556	95.5	15.6	8.5
Information clerks	2,143	88.3	10.7	11.0
Interviewers	171	84.4	12.3	12.5
Hotel clerks	125	76.1	15.4	15.9
Transportation ticket and reservation agents	286	74.1	9.8	10.8
Receptionists	1,091	95.4	10.2	10.3
Records processing, except financial	1,047	77.8	16.9	10.8
Order clerks	270	72.7	21.5	12.0
Personnel clerks, except payroll and timekeeping	70	83.3	24.6	5.4
Library clerks	151	74.4	9.8	11.1
File clerks	345	79.2	16.2	11.2
Records clerks	202	82.0	15.2	10.3
Financial records processing	2,181	90.8	8.9	6.4
Bookkeepers, accounting, and auditing clerks	1,691	91.4	7.6	5.6
Payroll and timekeeping clerks	146	88.2	8.7	9.3
Billing clerks	179	92.0	15.9	8.7
Cost and rate clerks	60	83.6	17.9	13.7
Billing, posting, and calculating machine operators	105	88.1	12.1	7.4
Duplicating, mail and other office machine operators	63	56.7	20.2	8.4
Communications equipment operators	158	81.7	18.6	13.7
Telephone operators	142	83.7	20.2	12.2
Mail and message distributing	990	42.2	21.1	8.4
Postal clerks, except mail carriers	313	50.8	28.4	7.5
Mail carriers, postal service	332	31.8	15.0	5.6
Mail clerks, except postal service	194	60.5	24.6	13.5
Messengers	151	23.3	15.2	9.6
Material recording, scheduling, and distributing clerks	1,959	45.5	13.2	12.8
Dispatchers	274	52.6	14.2	9.2
Production coordinators	208	60.2	10.0	4.4
Traffic, shipping, and receiving clerks	646	33.7	14.8	17.9
Stock and inventory clerks	459	41.8	12.5	11.2
Expeditors	264	68.1	11.1	13.6
Adjusters and investigators	1,802	75.5	18.1	7.9
Insurance adjusters, examiners, and investigators	472	71.3	15.4	7.6
Investigators and adjusters, except insurance	1,054	77.4	17.8	7.6
Eligibility clerks, social welfare	102	85.4	20.8	16.1
Bill and account collectors	175	69.8	24.9	6.3
Miscellaneous administrative support	3,616	83.4	14.4	11.0
General office clerks	728	81.4	13.4	12.0
Bank tellers	425	87.7	13.3	8.1
Data-entry keyers	746	81.3	15.6	10.9
Statistical clerks	94	83.6	18.2	10.2
Teachers' aides	689	91.0	13.8	14.9
Service occupations	17,915	60.4	18.3	15.2
Private household	831	95.2	15.1	29.3
Child care workers	295	97.4	10.2	21.5
Cleaners and servants	521	94.4	17.6	33.9
Protective service	2,440	18.9	19.8	8.2
Supervisors	181	13.2	10.6	5.0
Police and detectives	96	17.3	8.8	4.8
Firefighting and fire prevention	241	2.8	10.6	6.5
Firefighting	223	1.9	11.1	5.4
Police and detectives	1,108	16.9	18.2	8.1
Police and detectives, public service	618	14.2	15.1	9.1
Sheriffs, bailiffs, and other law enforcement officers	175	14.4	17.3	3.6
Correctional institution officers	315	23.5	24.9	8.7
Guards	910	26.7	26.1	9.4
Guards and police, except public services	763	20.7	29.0	9.6
Service occupations, except private household and protective service	14,644	65.4	18.2	15.5
Food preparation and service occupations	6,091	57.7	11.8	16.5
Supervisors, food preparation and service	469	88.3	12.9	11.6
Bartenders	316	48.4	4.1	12.9
Waiters and waitresses	1,431	77.4	5.1	10.2
Cooks	2,078	44.0	17.4	19.9

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Food counter, fountain and related occupations	360	64.5	10.3	13.7
Kitchen workers, food preparation	293	70.4	13.2	12.6
Waiters' and waitresses' assistants	538	49.5	10.6	19.4
Miscellaneous food preparation	606	51.8	12.8	26.4
Health service occupations	2,521	89.2	31.7	9.9
Dental assistants	213	96.1	6.7	10.4
Health aides, except nursing	338	80.5	25.0	10.0
Nursing aides, orderlies, and attendants	1,970	89.9	35.6	9.8
Cleaning and building service occupations	3,021	45.5	21.9	23.2
Supervisors	163	38.6	21.0	21.5
Maids and housemen	663	82.7	25.4	28.1
Janitors and cleaners	2,118	35.8	21.0	22.1
Pest control occupations	70	2.8	18.1	12.7
Personal service occupations	3,011	80.8	16.1	10.5
Supervisors	134	71.6	15.5	8.5
Barbers	81	20.3	25.1	11.3
Hairdressers and cosmetologists	784	90.8	11.7	10.1
Attendants, amusement and recreation facilities	247	39.7	11.5	6.9
Public transportation attendants	111	83.5	13.1	7.1
Welfare service aides	97	83.8	30.2	10.7
Family child care providers	469	98.0	13.9	15.5
Early childhood teachers' assistants	509	95.3	20.3	10.8
Precision production, craft, and repair	14,593	9.0	8.0	12.8
Mechanics and repairers	4,868	4.8	8.2	10.0
Supervisors	264	10.1	9.2	5.9
Mechanics and repairers, except supervisors	4,604	4.5	8.1	10.2
Vehicle and mobile equipment mechanics and repairers	1,768	1.6	7.2	11.3
Automobile mechanics	837	1.4	8.2	13.8
Bus, truck, and stationary engine mechanics	330	.8	8.3	8.6
Aircraft engine mechanics	147	4.2	7.8	10.4
Small engine repairers	72	1.8	1.4	6.0
Automobile body and related repairers	167	.7	5.9	12.3
Heavy equipment mechanics	160	1.2	4.7	7.0
Industrial machinery repairers	570	2.7	10.1	7.3
Electrical and electronic equipment repairers	966	11.1	9.3	8.7
Electronic repairers, communications and industrial equipment	217	7.9	7.0	11.2
Data processing equipment repairers	315	15.2	9.4	6.3
Telephone line installers and repairers	56	6.9	8.6	7.8
Telephone installers and repairers	249	13.2	13.2	6.9
Miscellaneous electrical and electronic equipment repairers	83	4.9	6.4	13.3
Heating, air conditioning, and refrigeration mechanics	357	1.3	7.0	11.1
Miscellaneous mechanics and repairers	927	5.7	7.8	11.0
Millwrights	72	2.8	7.7	3.4
Construction trades	5,801	2.5	7.0	15.0
Supervisors	817	2.3	4.4	8.5
Construction trades, except supervisors	4,985	2.6	7.4	16.0
Brickmasons and stonemasons	197	1.3	15.7	17.0
Tile setters, hard and soft	95	1.7	2.4	31.0
Carpet installers	129	1.7	5.2	20.8
Carpenters	1,398	1.2	5.1	15.0
Drywall installers	187	3.6	6.0	32.2
Electricians	834	2.3	7.6	8.7
Electrical power installers and repairers	134	2.1	12.8	7.7
Painters, construction and maintenance	603	6.4	7.6	23.1
Plumbers, pipefitters, and steamfitters	540	1.8	6.7	11.7
Concrete and terrazzo finishers	107	3.5	19.4	20.5
Insulation workers	57	4.5	11.5	24.7
Roofers	214	1.9	8.3	19.7
Structural metalworkers	71	.3	8.1	6.4
Extractive occupations	130	.9	6.3	11.6
Precision production occupations	3,793	24.3	9.6	13.2
Supervisors	1,160	19.5	10.8	10.8
Precision metalworking	928	7.6	6.5	8.5
Tool and die makers	142	3.9	3.7	3.7
Machinists	515	5.7	7.0	8.4
Sheet-metal workers	135	6.0	4.2	10.3
Precision woodworking occupations	114	12.0	3.2	16.8
Cabinet makers and bench carpenters	86	6.4	1.9	16.4
Precision textile, apparel, and furnishings machine workers	201	51.4	10.9	21.3

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Dressmakers	65	89.8	8.1	10.8
Upholsterers	69	23.2	7.3	26.1
Precision workers, assorted materials	554	53.9	10.5	14.0
Optical goods workers	81	64.5	6.2	6.1
Dental laboratory and medical appliance technicians	53	34.8	5.3	14.4
Electrical and electronic equipment assemblers	318	63.3	13.8	15.8
Precision food production occupations	457	37.1	13.5	28.4
Butchers and meat cutters	260	24.9	16.8	34.5
Bakers	146	44.7	10.7	20.6
Food batchmakers	50	78.0	4.9	19.8
Precision inspectors, testers, and related workers	131	23.9	8.6	6.5
Inspectors, testers, and graders	123	24.1	7.3	5.9
Plant and system operators	248	4.0	8.2	8.2
Water and sewage treatment plant operators	58	5.6	5.1	5.7
Stationary engineers	113	.8	9.5	8.2
Operators, fabricators, and laborers	18,167	24.1	15.7	16.6
Machine operators, assemblers, and inspectors	7,386	37.2	15.5	18.5
Machine operators and tenders, except precision	4,675	37.0	15.9	19.9
Metalworking and plastic working machine operators	376	17.1	10.7	12.9
Punching and stamping press machine operators	102	24.9	12.6	9.9
Grinding, abrading, buffing, and polishing machine operators	114	16.2	11.3	23.0
Metal and plastic processing machine operators	145	21.7	14.5	14.5
Molding and casting machine operators	96	24.5	16.4	12.7
Woodworking machine operators	143	16.6	9.0	10.5
Sawing machine operators	83	13.5	8.9	11.2
Printing machine operators	355	24.2	9.9	12.2
Printing press operators	277	17.4	11.3	13.4
Textile, apparel, and furnishings machine operators	872	70.8	18.1	28.9
Textile sewing machine operators	461	79.9	15.0	33.2
Pressing machine operators	79	78.2	20.1	39.0
Laundering and dry cleaning machine operators	201	58.4	22.3	25.3
Machine operators, assorted materials	2,757	32.6	17.1	19.8
Packaging and filling machine operators	366	61.7	18.1	30.5
Mixing and blending machine operators	128	12.3	21.2	23.5
Separating, filtering, and clarifying machine operators	52	14.6	14.6	6.5
Painting and paint spraying machine operators	205	13.5	10.9	18.2
Furnace, kiln, and oven operators, except food	70	4.3	11.0	8.6
Slicing and cutting machine operators	153	27.3	13.8	21.7
Photographic process machine operators	102	53.0	11.9	10.9
Fabricators, assemblers, and hand working occupations	1,995	33.7	14.9	14.7
Welders and cutters	571	5.7	9.5	14.9
Assemblers	1,246	44.5	18.5	15.0
Production inspectors, testers, samplers, and weighers	716	48.3	14.5	19.9
Production inspectors, checkers, and examiners	506	48.6	13.8	16.0
Production testers	57	25.7	9.2	13.6
Graders and sorters, except agricultural	149	56.3	18.9	35.1
Transportation and material moving occupations	5,516	9.9	15.9	11.9
Motor vehicle operators	4,202	11.5	16.1	12.4
Supervisors	86	21.8	13.6	8.7
Truck drivers	3,116	4.9	14.1	12.7
Drivers-sales workers	160	10.7	15.4	8.0
Bus drivers	490	51.1	24.5	9.3
Taxicab drivers and chauffeurs	271	13.3	23.9	16.2
Parking lot attendants	68	13.6	20.9	20.8
Transportation occupations, except motor vehicles	163	2.4	15.0	3.9
Rail transportation	106	1.1	18.2	3.0
Water transportation	57	4.9	9.2	5.6
Material moving equipment operators	1,152	5.2	15.5	11.4
Operating engineers	236	1.6	11.1	4.7
Crane and tower operators	74	4.0	11.7	4.5
Excavating and loading machine operators	105	2.1	5.6	7.5
Grader, dozer, and scraper operators	73	4.2	5.2	5.7
Industrial truck and tractor equipment operators	544	7.1	21.8	17.4
Handlers, equipment cleaners, helpers, and laborers	5,265	20.5	15.7	18.8
Helpers, construction and extractive occupations	112	5.5	11.7	18.5
Helpers, construction trades	100	5.1	12.6	18.8
Construction laborers	920	4.1	11.2	25.3

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Production helpers	66	26.5	14.8	21.3
Freight, stock, and material handlers	2,060	24.3	17.6	14.7
Garbage collectors	55	9.5	33.1	14.2
Stock handlers and baggers	1,172	31.0	13.8	14.1
Machine feeders and offbearers	91	41.7	29.3	13.8
Garage and service station related occupations	195	3.8	11.4	13.1
Vehicle washers and equipment cleaners	280	13.1	19.9	26.8
Hand packers and packagers	313	61.4	14.5	28.4
Laborers, except construction	1,286	21.6	16.2	17.0
Farming, forestry, and fishing	3,426	19.7	5.0	23.1
Farm operators and managers	1,134	24.7	1.0	2.9
Farmers, except horticultural	900	26.6	.7	1.5
Horticultural specialty farmers	65	10.4	5.3	13.1
Managers, farms, except horticultural	146	20.7	.8	7.4
Other agricultural and related occupations	2,135	18.1	7.1	35.1
Farm occupations, except managerial	845	20.2	5.0	45.8
Supervisors, farm workers	53	26.7	1.1	47.5
Farm workers	757	18.6	5.4	46.0
Related agricultural occupations	1,289	16.7	8.5	28.1
Supervisors	164	9.5	3.9	22.2
Groundskeepers and gardeners, except farm	943	6.8	10.3	29.5
Animal caretakers, except farm	120	76.0	2.0	5.8
Graders and sorters, agricultural products	58	72.8	4.9	68.2
Forestry and logging occupations	107	7.0	5.2	8.0
Timber cutting and logging occupations	66	1.3	8.4	4.4
Fishers, hunters, and trappers	50	6.4	5.6	2.3

NOTE: Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate

categories shown. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
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12. Employed white, black, and Hispanic-origin workers by sex, occupation, class of worker, and full- or part-time status.

(In thousands)

Category	Total		White		Black		Hispanic origin	
	1998	1999	1998	1999	1998	1999	1998	1999
SEX								
Total (all civilian workers)	131,463	133,488	110,931	112,235	14,556	15,056	13,291	13,720
Men	70,693	71,446	60,604	61,139	6,871	7,027	8,018	8,067
Women	60,771	62,042	50,327	51,096	7,685	8,029	5,273	5,653
OCCUPATION								
Managerial and professional specialty	38,937	40,467	34,063	35,125	2,947	3,233	1,933	2,040
Executive, administrative, and managerial	19,054	19,584	16,903	17,235	1,368	1,484	1,028	1,097
Professional specialty	19,883	20,883	17,160	17,890	1,579	1,749	905	943
Technical, sales, and administrative support	38,521	38,921	32,490	32,779	4,264	4,356	3,186	3,286
Technicians and related support	4,261	4,355	3,557	3,622	441	467	283	279
Sales occupations	15,850	16,118	13,704	13,956	1,415	1,405	1,245	1,267
Administrative support, including clerical	18,410	18,448	15,229	15,201	2,408	2,484	1,657	1,740
Service occupations	17,836	17,915	13,807	13,725	3,148	3,275	2,670	2,716
Private household	847	831	704	670	116	126	262	244
Protective service	2,417	2,440	1,892	1,886	463	484	204	200
Service, except private household and protective	14,572	14,644	11,211	11,168	2,569	2,666	2,204	2,271
Precision production, craft, and repair	14,411	14,593	12,729	12,908	1,158	1,174	1,793	1,871
Mechanics and repairers	4,786	4,868	4,233	4,284	379	397	496	485
Construction trades	5,594	5,801	5,054	5,275	398	405	785	869
Other precision production, craft, and repair	4,031	3,923	3,441	3,348	381	371	512	517
Operators, fabricators, and laborers	18,256	18,167	14,609	14,535	2,866	2,847	2,917	3,014
Machine operators, assemblers, and inspectors	7,791	7,386	6,146	5,824	1,200	1,143	1,340	1,364
Transportation and material moving occupations	5,363	5,516	4,351	4,488	872	879	640	659
Handlers, equipment cleaners, helpers, and laborers	5,102	5,265	4,112	4,223	795	825	938	992
Construction laborers	821	920	705	787	97	103	193	233
Other handlers, equipment cleaners, helpers, and laborers	4,282	4,346	3,407	3,436	698	722	745	759
Farming, forestry, and fishing	3,502	3,426	3,233	3,165	172	172	792	793
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	2,000	1,944	1,843	1,802	102	87	670	654
Self-employed workers	1,341	1,297	1,280	1,243	36	30	71	79
Unpaid family workers	38	40	37	38	—	—	2	1
Nonagricultural industries:								
Wage and salary workers	119,019	121,323	99,657	101,229	13,917	14,416	11,949	12,327
Government	18,383	18,903	14,686	15,141	2,877	2,937	1,355	1,426
Private industries	100,637	102,420	84,970	86,088	11,040	11,479	10,594	10,901
Private households	962	933	785	741	146	149	281	257
Other industries	99,674	101,487	84,185	85,347	10,894	11,330	10,312	10,644
Self-employed workers	8,962	8,790	8,030	7,846	497	520	590	651
Unpaid family workers	103	95	84	77	4	3	10	7
FULL- OR PART-TIME STATUS								
Full-time workers	108,202	110,302	90,759	92,173	12,429	12,904	11,303	11,767
Part-time workers	23,261	23,186	20,172	20,062	2,126	2,152	1,988	1,953

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

13. Employed Mexican, Puerto Rican, and Cuban-origin workers by sex, occupation, class of worker, and full- or part-time status

(Numbers in thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1998	1999	1998	1999	1998	1999	1998	1999
SEX								
Total (all civilian workers)	13,291	13,720	8,431	8,656	1,145	1,165	612	681
Men	8,018	8,067	5,291	5,312	615	607	371	408
Women	5,273	5,653	3,140	3,344	529	557	241	273
OCCUPATION								
Managerial and professional specialty	1,933	2,040	985	1,025	208	226	159	186
Executive, administrative, and managerial	1,028	1,097	536	557	103	118	89	101
Professional specialty	905	943	449	468	105	108	70	84
Technical, sales, and administrative support	3,186	3,286	1,845	1,896	365	366	210	209
Technicians and related support	283	279	156	163	30	25	28	22
Sales occupations	1,245	1,267	729	722	118	125	94	84
Administrative support, including clerical	1,657	1,740	961	1,011	217	216	88	102
Service occupations	2,670	2,716	1,653	1,697	217	217	85	90
Private household	262	244	130	130	6	4	3	2
Protective service	204	200	106	106	39	39	13	10
Service, except private household and protective	2,204	2,271	1,417	1,461	172	174	69	79
Precision production, craft, and repair	1,793	1,871	1,199	1,290	119	125	66	76
Mechanics and repairers	496	485	311	303	38	47	28	30
Construction trades	785	869	554	625	33	40	23	33
Other precision production, craft, and repair	512	517	334	361	48	38	15	13
Operators, fabricators, and laborers	2,917	3,014	2,047	2,043	223	217	85	114
Machine operators, assemblers, and inspectors	1,340	1,364	955	933	105	95	24	45
Transportation and material moving occupations	640	659	422	407	53	52	38	38
Handlers, equipment cleaners, helpers, and laborers	938	992	671	702	64	70	24	32
Construction laborers	193	233	149	185	9	7	3	3
Other handlers, equipment cleaners, helpers, and laborers	745	759	521	518	55	63	21	28
Farming, forestry, and fishing	792	793	703	706	13	14	7	6
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	670	654	605	599	9	7	5	5
Self-employed workers	71	79	56	66	1	-	2	2
Unpaid family workers	2	1	1	1	-	-	-	-
Nonagricultural industries:								
Wage and salary workers	11,949	12,327	7,410	7,625	1,100	1,115	574	638
Government	1,355	1,426	833	894	180	181	60	82
Private industries	10,594	10,901	6,577	6,731	920	934	515	556
Private households	281	257	139	138	7	5	3	3
Other industries	10,312	10,644	6,438	6,593	913	929	511	553
Self-employed workers	590	651	351	361	34	42	31	37
Unpaid family workers	10	7	8	5	1	1	-	-
FULL- OR PART-TIME STATUS								
Full-time workers	11,303	11,767	7,166	7,430	969	998	531	587
Part-time workers	1,988	1,953	1,265	1,226	176	166	81	94

¹ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
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14. Employed persons in nonagricultural industries by age, sex, and race

(In thousands)

Age, sex, and race	1999									
	Mining	Construction	Manufacturing			Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Services ¹	Public administration
			Total	Durable goods	Non-durable goods					
Total										
Total, 16 years and over	565	8,987	20,070	12,283	7,787	9,554	27,572	8,815	48,687	5,958
16 to 19 years	5	325	423	250	173	145	3,815	197	1,974	55
20 years and over	560	8,661	19,647	12,033	7,614	9,409	23,757	8,618	46,713	5,903
20 to 24 years	40	893	1,509	923	586	668	3,962	775	4,455	258
25 years and over	521	7,768	18,139	11,110	7,028	8,741	19,796	7,843	42,258	5,645
25 to 54 years	459	6,820	15,689	9,570	6,120	7,595	16,713	6,574	35,554	4,815
55 years and over	62	948	2,449	1,541	909	1,146	3,083	1,269	6,704	830
Men, 16 years and over	495	8,101	13,647	8,894	4,753	6,815	14,448	3,699	18,506	3,303
16 to 19 years	3	294	282	175	107	106	1,874	73	838	27
20 years and over	492	7,807	13,365	8,719	4,646	6,709	12,573	3,626	17,669	3,277
20 to 24 years	37	816	1,048	689	359	435	2,037	243	1,719	134
25 years and over	455	6,990	12,316	8,030	4,287	6,275	10,536	3,383	15,949	3,143
25 to 54 years	399	6,146	10,633	6,894	3,739	5,399	8,902	2,717	13,150	2,683
55 years and over	57	844	1,684	1,136	547	875	1,635	665	2,800	459
Women, 16 years and over	69	886	6,423	3,389	3,034	2,740	13,124	5,115	30,180	2,655
16 to 19 years	1	31	141	75	65	39	1,940	123	1,136	28
20 years and over	68	855	6,282	3,314	2,968	2,700	11,184	4,992	29,044	2,627
20 to 24 years	3	77	460	234	226	233	1,924	531	2,736	124
25 years and over	65	778	5,822	3,080	2,742	2,467	9,260	4,461	26,308	2,502
25 to 54 years	60	673	5,056	2,676	2,381	2,196	7,811	3,857	22,404	2,132
55 years and over	5	104	766	405	361	271	1,448	604	3,904	371
White										
Men, 16 years and over	465	7,401	11,726	7,706	4,020	5,568	12,337	3,226	15,398	2,745
16 to 19 years	3	279	248	155	93	90	1,625	55	706	22
20 years and over	462	7,123	11,478	7,551	3,927	5,478	10,712	3,171	14,692	2,724
20 to 24 years	33	745	901	600	301	355	1,767	202	1,395	111
25 years and over	429	6,378	10,577	6,951	3,626	5,124	8,945	2,968	13,297	2,612
25 to 54 years	374	5,608	9,076	5,935	3,141	4,369	7,484	2,351	10,844	2,207
55 years and over	55	770	1,501	1,016	485	754	1,461	617	2,454	405
Women, 16 years and over	60	812	5,195	2,755	2,440	2,128	11,143	4,268	24,718	1,963
16 to 19 years	1	30	117	62	56	30	1,658	99	993	25
20 years and over	59	782	5,077	2,693	2,385	2,098	9,485	4,168	23,725	1,938
20 to 24 years	2	67	358	183	175	177	1,586	413	2,195	96
25 years and over	57	715	4,719	2,510	2,210	1,921	7,899	3,755	21,530	1,842
25 to 54 years	52	617	4,060	2,158	1,903	1,687	6,579	3,196	18,253	1,530
55 years and over	5	98	659	352	307	234	1,319	560	3,277	312
Black										
Men, 16 years and over	20	504	1,322	775	546	978	1,352	307	2,016	429
16 to 19 years	-	10	21	12	9	14	171	12	91	3
20 years and over	20	494	1,300	763	537	965	1,181	295	1,925	426
20 to 24 years	3	49	109	62	46	68	192	28	223	20
25 years and over	17	445	1,192	701	491	897	989	267	1,701	406
25 to 54 years	15	389	1,081	627	454	807	898	232	1,486	368
55 years and over	1	56	111	74	37	90	91	35	215	39
Women, 16 years and over	4	55	814	406	408	489	1,305	634	4,145	565
16 to 19 years	-	-	14	8	6	9	214	16	108	3
20 years and over	4	55	799	398	402	480	1,091	618	4,036	562
20 to 24 years	-	9	79	35	44	45	254	82	399	21
25 years and over	4	46	721	363	358	435	837	535	3,637	541
25 to 54 years	4	41	653	328	325	404	767	507	3,141	493
55 years and over	-	5	68	34	33	31	69	28	496	49

¹ Includes private households.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

15. Employed persons in agriculture and nonagricultural industries by age, sex, and class of worker

(In thousands)

Age and sex	1999									
	Agriculture			Nonagricultural industries						
	Wage and salary workers	Self-employed workers	Unpaid family workers	Wage and salary workers					Self-employed workers	Unpaid family workers
				Total	Private industries			Government		
Total	Private household workers	Other private industries								
Total, 16 years and over	1,944	1,297	40	121,323	102,420	933	101,487	18,903	8,790	95
16 to 19 years	201	19	15	6,871	6,533	109	6,424	338	59	8
16 to 17 years	89	10	8	2,655	2,542	62	2,480	113	28	4
18 to 19 years	111	9	7	4,216	3,992	47	3,944	224	31	4
20 to 24 years	301	27	4	12,287	11,246	104	11,141	1,041	264	8
25 to 34 years	476	169	3	28,724	25,071	157	24,914	3,653	1,482	12
35 to 44 years	474	298	9	33,331	27,901	207	27,694	5,430	2,590	25
45 to 54 years	286	290	3	25,656	19,944	176	19,768	5,711	2,381	19
55 to 64 years	146	273	4	11,502	9,227	114	9,113	2,275	1,378	12
65 years and over	60	221	2	2,951	2,497	66	2,431	454	637	11
Men, 16 years and over	1,450	962	20	63,624	55,346	74	55,272	8,278	5,366	25
16 to 19 years	159	18	11	3,457	3,306	16	3,290	151	35	6
16 to 17 years	69	9	5	1,335	1,278	9	1,270	56	16	2
18 to 19 years	90	9	6	2,122	2,028	8	2,020	94	19	3
20 to 24 years	234	23	2	6,310	5,856	11	5,845	454	155	5
25 to 34 years	364	131	1	15,347	13,730	9	13,721	1,617	848	2
35 to 44 years	346	221	2	17,687	15,358	15	15,343	2,330	1,551	3
45 to 54 years	196	204	1	13,126	10,682	11	10,671	2,443	1,462	2
55 to 64 years	102	193	2	6,092	5,026	7	5,019	1,066	883	2
65 years and over	49	172	-	1,605	1,387	5	1,382	218	431	5
Women, 16 years and over	494	335	20	57,699	47,074	859	46,215	10,625	3,424	70
16 to 19 years	42	1	3	3,414	3,227	93	3,134	187	24	2
16 to 17 years	20	1	2	1,320	1,263	53	1,210	57	12	1
18 to 19 years	22	1	1	2,094	1,964	40	1,924	130	12	1
20 to 24 years	67	4	2	5,978	5,390	93	5,296	588	109	3
25 to 34 years	111	38	2	13,377	11,340	148	11,192	2,036	633	10
35 to 44 years	129	77	6	15,644	12,544	192	12,352	3,100	1,038	23
45 to 54 years	91	86	2	12,530	9,262	165	9,097	3,268	919	16
55 to 64 years	44	80	2	5,410	4,201	107	4,094	1,209	495	10
65 years and over	10	49	2	1,346	1,110	61	1,049	236	206	6

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
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16. Employed persons in nonagricultural industries by sex and class of worker

(In thousands)

Industry and sex	1999					
	Total employed	Wage and salary workers			Self-employed workers	Unpaid family workers
		Total	Private industries	Government		
TOTAL						
Mining	565	549	546	3	16	-
Construction	8,987	7,427	6,919	508	1,545	15
Manufacturing	20,070	19,685	19,609	76	380	4
Durable goods	12,283	12,064	12,014	50	216	2
Nondurable goods	7,787	7,621	7,595	26	164	2
Transportation and public utilities	9,554	9,120	7,513	1,607	429	6
Wholesale and retail trade	27,572	25,918	25,820	99	1,621	33
Wholesale trade	5,189	4,899	4,883	16	287	2
Retail trade	22,383	21,019	20,937	83	1,333	31
Finance, insurance, and real estate	8,815	8,149	7,944	205	661	4
Services	48,687	44,516	34,069	10,447	4,138	33
Private households	940	933	933	-	7	-
Other service industries	47,747	43,583	33,136	10,447	4,131	32
Business, automobile, and repair	9,046	7,787	7,725	62	1,247	12
Personal, except private households	3,548	2,876	2,862	14	666	6
Entertainment and recreation	2,649	2,377	2,043	334	271	1
Professional	32,370	30,452	20,466	9,986	1,904	14
Hospitals	5,117	5,106	4,390	716	11	-
Health services, except hospitals	6,529	6,147	5,685	462	377	5
Educational	10,896	10,794	2,729	8,066	101	1
Social services	3,426	2,880	2,276	603	545	1
Other	6,402	5,525	5,386	139	871	7
Forestry and fisheries	135	92	40	51	43	-
Public administration	5,958	5,958	-	5,958	-	-
Men						
Mining	495	482	479	3	14	-
Construction	8,101	6,651	6,205	446	1,446	4
Manufacturing	13,647	13,390	13,341	49	255	2
Durable goods	8,894	8,726	8,690	36	166	1
Nondurable goods	4,753	4,664	4,651	13	88	1
Transportation and public utilities	6,815	6,458	5,362	1,096	355	1
Wholesale and retail trade	14,448	13,577	13,531	46	860	10
Wholesale trade	3,530	3,321	3,311	10	209	-
Retail trade	10,918	10,256	10,220	36	652	10
Finance, insurance, and real estate	3,699	3,277	3,180	97	422	-
Services	18,506	16,486	13,248	3,237	2,013	7
Private households	79	74	74	-	5	-
Other service industries	18,427	16,412	13,174	3,237	2,008	7
Business, automobile, and repair	5,760	4,944	4,910	35	812	3
Personal, except private households	1,237	1,029	1,024	5	205	2
Entertainment and recreation	1,516	1,346	1,139	207	171	-
Professional	9,808	9,023	6,069	2,954	783	1
Hospitals	1,202	1,199	959	239	3	-
Health services, except hospitals	1,376	1,166	1,064	102	210	-
Educational	3,367	3,342	963	2,380	24	-
Social services	592	569	419	150	22	-
Other	3,271	2,747	2,664	83	524	1
Forestry and fisheries	107	70	33	36	37	-
Public administration	3,303	3,303	-	3,303	-	-
Women						
Mining	69	67	67	-	2	-
Construction	886	776	714	63	99	11
Manufacturing	6,423	6,295	6,268	27	126	2
Durable goods	3,389	3,338	3,325	14	50	1
Nondurable goods	3,034	2,957	2,944	13	76	1
Transportation and public utilities	2,740	2,661	2,151	511	74	4
Wholesale and retail trade	13,124	12,341	12,289	52	760	23
Wholesale trade	1,659	1,578	1,572	6	79	2
Retail trade	11,465	10,763	10,717	46	681	21
Finance, insurance, and real estate	5,115	4,872	4,764	108	239	4
Services	30,180	28,031	20,821	7,210	2,125	25
Private households	861	859	859	-	2	-
Other service industries	29,320	27,172	19,962	7,210	2,123	25
Business, automobile, and repair	3,286	2,842	2,815	27	435	8
Personal, except private households	2,311	1,847	1,838	9	460	4
Entertainment and recreation	1,132	1,031	904	127	100	1
Professional	22,562	21,429	14,398	7,031	1,121	12
Hospitals	3,915	3,907	3,431	477	8	-
Health services, except hospitals	5,153	4,981	4,622	360	167	4
Educational	7,529	7,452	1,766	5,686	77	1
Social services	2,834	2,310	1,857	453	523	1
Other	3,131	2,778	2,722	56	347	6
Forestry and fisheries	28	22	7	15	7	-
Public administration	2,655	2,655	-	2,655	-	-

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

17. Employed persons by industry, sex, race, and occupation

(In thousands)

Industry and sex	1999												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service		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	
TOTAL													
Agriculture	3,281	118	97	53	15	149	—	15	36	10	48	18	2,722
Mining	565	83	69	19	7	35	—	6	198	24	102	21	1
Construction	8,987	1,379	159	60	67	406	—	33	5,224	108	543	984	22
Manufacturing	20,070	2,955	1,981	645	736	1,883	—	242	3,883	5,896	726	1,035	88
Durable goods	12,283	1,799	1,286	440	351	1,067	—	125	2,715	3,504	394	520	82
Nondurable goods	7,787	1,156	694	205	385	816	—	117	1,168	2,391	332	515	7
Transportation and public utilities	9,554	1,340	557	359	275	2,386	—	304	1,335	123	2,318	546	14
Wholesale and retail trade	27,572	2,597	618	256	11,536	2,314	—	5,174	1,432	346	1,149	2,049	99
Wholesale trade	5,189	630	158	50	2,047	819	—	52	324	118	523	406	62
Retail trade	22,383	1,967	461	207	9,489	1,495	—	5,122	1,108	229	625	1,643	38
Finance, insurance, and real estate	8,815	2,664	380	200	2,224	2,780	—	294	177	10	12	23	50
Services	48,687	7,061	16,031	2,533	1,230	7,242	831	9,275	2,119	847	575	547	395
Private households	940	6	5	3	—	9	831	56	3	—	2	13	13
Other service industries	47,747	7,056	16,026	2,530	1,230	7,234	—	9,219	2,116	847	573	535	382
Professional services	32,370	4,307	13,796	2,074	210	5,333	—	5,536	463	167	301	91	90
Public administration	5,958	1,386	992	229	28	1,253	—	1,741	189	22	42	42	34
Men													
Agriculture	2,432	67	68	9	9	7	—	5	35	7	48	14	2,162
Mining	495	57	63	16	7	9	—	5	193	22	101	21	1
Construction	8,101	1,114	140	52	50	30	—	24	5,094	104	530	941	21
Manufacturing	13,647	1,981	1,515	487	482	590	—	179	3,221	3,703	676	726	85
Durable goods	8,894	1,245	1,074	355	251	369	—	94	2,267	2,399	371	389	80
Nondurable goods	4,753	736	440	132	231	222	—	85	955	1,304	305	337	6
Transportation and public utilities	6,815	844	414	302	144	991	—	164	1,246	106	2,117	476	13
Wholesale and retail trade	14,448	1,441	292	101	5,573	578	—	2,393	1,239	202	1,070	1,518	44
Wholesale trade	3,530	385	105	38	1,506	223	—	32	303	78	507	332	20
Retail trade	10,918	1,056	187	62	4,067	355	—	2,361	936	124	562	1,186	23
Finance, insurance, and real estate	3,699	1,233	195	92	1,233	503	—	197	166	6	10	19	45
Services	18,506	3,321	6,482	901	537	984	40	2,695	1,909	470	381	438	349
Private households	79	2	2	2	—	—	40	5	2	—	2	12	13
Other service industries	18,427	3,319	6,480	899	537	984	—	2,690	1,907	470	379	426	336
Professional services	9,808	1,689	5,112	553	69	565	—	1,091	383	73	133	64	75
Public administration	3,303	687	535	134	14	243	—	1,392	182	16	35	36	29
Women													
Agriculture	849	51	29	43	6	142	—	10	1	3	1	3	560
Mining	69	27	6	3	—	25	—	1	4	2	1	—	—
Construction	886	265	20	8	17	376	—	9	130	4	13	43	1
Manufacturing	6,423	974	466	158	254	1,292	—	63	662	2,193	49	309	3
Durable goods	3,389	554	212	85	99	698	—	31	448	1,106	23	131	2
Nondurable goods	3,034	420	254	73	155	594	—	32	213	1,087	26	178	1
Transportation and public utilities	2,740	496	143	57	130	1,395	—	140	89	16	201	70	1
Wholesale and retail trade	13,124	1,156	327	156	5,964	1,736	—	2,781	194	145	79	532	55
Wholesale trade	1,659	245	53	11	542	596	—	19	21	40	16	74	41
Retail trade	11,465	912	274	144	5,422	1,140	—	2,762	172	105	63	457	14
Finance, insurance, and real estate	5,115	1,431	185	108	991	2,277	—	98	11	4	2	4	5
Services	30,180	3,741	9,549	1,632	693	6,258	791	6,580	210	377	194	109	46
Private households	861	4	3	1	—	8	791	52	—	—	—	1	—
Other service industries	29,320	3,737	9,546	1,631	693	6,250	—	6,528	209	377	194	108	46
Professional services	22,562	2,618	8,685	1,521	140	4,768	—	4,445	81	94	168	27	15
Public administration	2,655	699	457	96	14	1,010	—	349	6	5	7	6	5

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

17. Employed persons by industry, sex, race, and occupation — Continued

(In thousands)

Industry and sex	1999												
	Total em- ployed	Managerial and professional specialty		Technical, sales, and administrative support			Service		Precision produc- tion, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, adminis- trative, and mana- gerial	Profes- sional specialty	Techni- cians and related support	Sales	Adminis- trative support, including clerical	Private house- hold	Other service ¹		Machine oper- ators, assem- blers, and inspec- tors	Transpor- tation and material moving	Handlers, equipment cleaners, helpers, and laborers	
White													
Agriculture	3,083	111	90	51	14	147	-	13	34	9	43	15	2,554
Mining	526	79	65	17	7	31	-	5	184	20	96	19	1
Construction	8,213	1,311	133	48	63	378	-	26	4,812	96	481	843	20
Manufacturing	16,921	2,735	1,729	523	679	1,636	-	187	3,321	4,633	579	818	80
Durable goods	10,460	1,677	1,110	353	331	944	-	102	2,338	2,798	315	419	74
Nondurable goods	6,460	1,058	619	170	348	692	-	86	983	1,835	264	400	5
Transportation and public utilities	7,696	1,169	459	324	234	1,808	-	222	1,137	95	1,848	388	12
Wholesale and retail trade	23,480	2,241	552	226	9,894	1,993	-	4,310	1,287	287	949	1,655	86
Wholesale trade	4,576	562	143	46	1,892	705	-	39	294	93	430	319	54
Retail trade	18,905	1,679	409	180	8,002	1,289	-	4,272	994	193	519	1,336	32
Finance, insurance, and real estate	7,494	2,329	316	168	2,016	2,219	-	229	139	5	8	21	44
Services	40,116	6,145	13,761	2,082	1,031	6,027	670	6,672	1,843	664	447	431	341
Private households	747	5	5	3	-	7	670	33	2	-	1	11	9
Other service industries	39,369	6,140	13,757	2,079	1,031	6,020	-	6,639	1,841	664	446	420	332
Professional services	26,710	3,704	11,877	1,699	175	4,462	-	3,887	401	124	231	75	75
Public administration	4,708	1,115	784	182	19	961	-	1,390	151	15	34	32	26
Black													
Agriculture	117	1	2	-	1	1	-	1	-	1	3	3	104
Mining	24	1	-	1	-	3	-	-	12	3	3	1	-
Construction	560	41	13	7	2	20	-	5	305	8	48	108	2
Manufacturing	2,135	111	93	66	33	174	-	46	382	918	129	176	8
Durable goods	1,181	59	58	40	9	81	-	18	238	514	72	87	6
Nondurable goods	954	52	35	25	24	94	-	28	144	404	57	90	2
Transportation and public utilities	1,467	121	57	24	35	444	-	67	157	24	404	133	2
Wholesale and retail trade	2,657	181	26	15	1,059	229	-	534	93	44	170	302	6
Wholesale trade	376	30	6	3	70	74	-	7	18	21	80	63	3
Retail trade	2,282	151	20	12	989	155	-	527	75	23	89	238	3
Finance, insurance, and real estate	941	214	39	15	135	437	-	56	32	3	3	1	5
Services	6,161	609	1,371	308	134	927	126	2,140	165	139	112	93	38
Private households	150	1	-	-	-	-	126	18	-	-	-	1	4
Other service industries	6,010	608	1,370	308	134	927	-	2,122	164	139	112	92	35
Professional services	4,225	426	1,213	270	26	675	-	1,441	47	38	64	12	13
Public administration	994	205	148	33	6	247	-	300	29	4	8	7	6

¹ Includes protective service, not shown separately.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

18. Employed persons by detailed industry, sex, race, and Hispanic origin

(Numbers in thousands)

Industry	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	133,488	46.5	11.3	10.3
Agriculture	3,281	25.9	3.6	22.4
Agricultural production, crops	958	25.3	3.4	33.4
Agricultural production, livestock	998	25.8	1.8	7.9
Veterinary services	215	74.2	.5	2.7
Landscape and horticultural services	920	11.7	6.5	29.0
Mining	565	12.3	4.3	10.1
Coal mining	85	3.5	2.0	.7
Oil and gas extraction	330	16.4	4.9	11.6
Nonmetallic mining and quarrying, except fuel	110	8.5	3.8	11.2
Construction	8,987	9.9	6.2	13.5
Manufacturing	20,070	32.0	10.6	11.2
Durable goods	12,283	27.6	9.6	9.5
Lumber and wood products, except furniture	824	19.0	9.5	11.3
Logging	126	4.9	5.9	2.7
Sawmills, planing mills, and millwork	429	21.3	9.8	9.9
Wood buildings and mobile homes	102	21.3	8.7	18.2
Miscellaneous wood products	168	22.0	12.2	17.1
Furniture and fixtures	661	30.9	8.4	13.9
Stone, clay, glass, and concrete products	629	24.0	9.3	12.0
Glass and glass products	202	30.5	8.5	7.8
Cement, concrete, gypsum, and plaster products	222	14.5	10.0	13.8
Structural clay, pottery, and related products	84	34.1	5.7	12.5
Miscellaneous nonmetallic mineral and stone products	121	23.8	12.0	15.4
Metal industries	2,052	21.0	10.6	11.7
Primary metal industries	760	15.7	11.9	10.9
Blast furnaces, steelworks, rolling, and finishing mills	299	13.2	12.4	8.3
Iron and steel foundries	107	8.5	17.9	11.8
Primary aluminum industries	162	12.6	8.1	13.4
Other primary metal industries	193	26.2	10.9	12.4
Fabricated metal industries	1,292	24.1	9.9	12.1
Cutlery, hand tools, and general hardware	119	36.4	9.4	13.5
Fabricated structural metal products	532	20.0	8.5	11.7
Screw machine products	64	23.0	6.3	19.4
Metal forging and stampings	140	22.3	11.1	8.7
Miscellaneous and not specified fabricated metal products	389	25.8	10.2	13.7
Machinery and computing equipment	2,436	23.9	7.3	7.4
Engines and turbines	64	28.6	7.2	8.5
Farm machinery and equipment	105	20.7	11.1	3.2
Construction and material handling machines	236	17.5	9.4	4.2
Metal working machinery	317	19.6	4.4	6.8
Computers and related equipment	552	35.4	8.8	7.5
Electrical machinery, equipment, and supplies	1,900	38.3	8.6	8.8
Household appliances	103	32.8	10.0	5.4
Radio, T.V., and communication equipment	416	35.1	10.3	8.9
Transportation equipment	2,326	23.4	12.6	6.3
Motor vehicles and motor vehicle equipment	1,323	25.0	15.6	5.8
Aircraft and parts	480	23.3	8.4	7.2
Ship and boat building and repairing	184	16.7	11.5	3.6
Guided missiles, space vehicles, and parts	245	22.2	6.4	9.8
Cycles and miscellaneous transportation equipment	68	20.3	7.9	3.9
Professional and photographic equipment, and watches	743	41.7	8.5	8.5
Scientific and controlling instruments	205	35.4	6.9	4.5
Medical, dental, and optical instruments and supplies	418	47.7	7.7	11.0

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

18. Employed persons by detailed industry, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Industry	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Photographic equipment and supplies	108	30.6	13.7	3.4
Toys, amusements, and sporting goods	148	37.9	7.6	14.1
Miscellaneous and not specified manufacturing industries	564	40.3	10.9	16.7
Nondurable goods	7,787	39.0	12.3	13.9
Food and kindred products	1,644	33.8	15.0	20.5
Meat products	475	37.5	22.4	34.4
Dairy products	144	28.1	8.9	6.5
Canned, frozen, and preserved fruits and vegetables	180	40.9	8.3	23.2
Grain mill products	148	25.1	7.8	12.8
Bakery products	228	32.1	15.1	15.1
Sugar and confectionary products	98	44.4	8.7	21.2
Beverage industries	193	24.4	14.7	8.7
Miscellaneous and not specified food and kindred products	179	35.4	16.9	17.3
Textile mill products	524	43.0	21.8	10.6
Knitting mills	86	63.9	24.8	8.1
Carpets and rugs	93	40.9	16.3	13.6
Yarn, thread, and fabric mills	271	40.6	23.7	9.1
Apparel and other finished textile products	733	67.5	10.7	30.4
Apparel and accessories, except knit	583	67.5	11.6	32.0
Miscellaneous fabricated textile products	150	67.4	7.3	24.3
Paper and allied products	640	26.5	11.7	9.5
Pulp, paper, and paperboard mills	233	21.0	11.0	5.6
Miscellaneous paper and pulp products	210	32.7	9.9	10.0
Paperboard containers and boxes	197	26.3	14.5	13.4
Printing, publishing, and allied products	1,802	44.4	8.3	7.9
Newspaper publishing and printing	531	45.3	9.8	6.0
Printing, publishing, and allied industries, except newspapers	1,271	44.1	7.6	8.7
Chemicals and allied products	1,234	34.7	12.7	10.7
Plastics, synthetics, and resins	137	26.1	13.7	18.1
Drugs	367	48.2	12.1	8.8
Soaps and cosmetics	166	49.2	16.3	16.5
Paints, varnishes, and related products	64	22.0	14.3	17.9
Industrial and miscellaneous chemicals	455	24.4	12.1	6.8
Petroleum and coal products	186	20.6	7.6	5.3
Petroleum refining	154	19.0	8.1	5.5
Rubber and miscellaneous plastics products	891	30.6	11.0	11.0
Tires and inner tubes	114	8.8	14.7	4.8
Other rubber products, and plastics footwear and belting	150	31.3	12.0	11.0
Miscellaneous plastics products	627	34.3	10.1	12.1
Leather and leather products	87	45.3	7.2	20.6
Transportation, communications, and other public utilities	9,554	28.7	15.4	9.3
Transportation	6,198	26.7	16.2	10.3
Railroads	299	9.6	14.4	7.0
Bus service and urban transit	613	34.7	24.5	12.9
Taxicab service	150	13.1	32.6	15.9
Trucking service	2,513	14.7	14.5	9.8
Warehousing and storage	174	26.9	16.2	17.5
U.S. Postal Service	887	39.3	21.3	6.5
Water transportation	222	20.6	12.8	8.9
Air transportation	903	35.2	13.0	9.8
Services incidental to transportation	426	61.7	8.0	16.1
Communications	1,888	40.3	15.7	7.5
Radio and television broadcasting and cable	470	36.5	13.3	6.9
Telephone communications	1,403	41.5	16.4	7.7
Utilities and sanitary services	1,468	22.1	11.3	7.6
Electric light and power	572	22.1	8.8	5.8
Gas and steam supply systems	166	23.4	11.7	5.7

See footnotes at end of table.

18. Employed persons by detailed industry, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Industry	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Electric and gas, and other combinations	161	29.0	6.6	6.8
Water supply and irrigation	262	24.9	10.3	9.0
Sanitary services	295	14.8	18.5	11.7
Wholesale and retail trade	27,572	47.6	9.6	11.5
Wholesale trade	5,189	32.0	7.2	11.1
Durable goods	2,842	29.5	5.8	8.3
Motor vehicles and equipment	238	24.2	8.7	9.8
Furniture and home furnishings	115	34.0	8.2	6.5
Lumber and construction materials	229	25.7	3.9	11.4
Professional and commercial equipment and supplies	516	35.8	8.1	6.1
Metals and minerals, except petroleum	93	23.2	10.1	8.1
Electrical goods	348	31.8	5.1	8.4
Hardware, plumbing and heating supplies	275	26.5	2.8	9.2
Machinery, equipment, and supplies	710	25.3	3.5	6.4
Scrap and waste materials	146	21.2	11.8	16.5
Miscellaneous wholesale trade, durable goods	171	48.5	5.1	10.1
Nondurable goods	2,347	34.9	8.9	14.5
Paper and paper products	139	52.0	9.2	9.4
Drugs, chemicals, and allied products	242	43.1	9.0	10.5
Apparel, fabrics, and notions	155	57.5	8.6	19.0
Groceries and related products	941	27.8	10.5	20.4
Farm products-raw materials	84	27.4	4.8	5.0
Petroleum products	131	29.0	10.8	5.1
Alcoholic beverages	118	19.9	8.4	12.2
Farm supplies	149	24.5	5.8	8.2
Miscellaneous nondurable goods and not specified wholesale trade	388	44.1	6.7	11.2
Retail trade	22,383	51.2	10.2	11.6
Lumber and building material retailing	644	27.4	8.1	6.4
Hardware stores	215	33.8	6.7	10.2
Retail nurseries and garden stores	131	37.8	2.2	7.4
Department stores	2,282	65.6	14.8	10.2
Variety stores	137	73.3	19.8	13.4
Miscellaneous general merchandise stores	167	59.4	16.8	9.5
Grocery stores	3,065	51.6	11.3	10.9
Retail bakeries	213	58.3	6.5	16.3
Motor vehicle dealers	1,233	20.7	7.3	10.5
Auto and home supply stores	486	19.0	7.7	14.3
Gasoline service stations	378	37.3	11.2	8.0
Miscellaneous vehicle dealers	144	24.7	.1	3.9
Apparel and accessory stores, except shoe	791	73.0	13.0	11.3
Shoe stores	147	48.8	23.1	13.7
Furniture and home furnishings stores	644	42.1	7.4	8.8
Household appliance stores	88	26.2	13.6	11.4
Radio, TV, and computer stores	508	27.0	6.8	8.2
Music stores	124	36.8	7.2	10.3
Eating and drinking places	6,735	52.7	10.5	15.7
Drug stores	661	65.9	13.3	8.4
Liquor stores	143	45.0	8.9	8.6
Sporting goods, bicycles, and hobby stores	426	46.4	5.7	6.3
Book and stationery stores	314	52.7	8.7	4.8
Jewelry stores	188	65.7	5.7	8.4
Gift, novelty, and souvenir shops	222	81.8	6.3	5.9
Catalog and mail order houses	178	62.2	10.2	8.9
Vending machine operators	75	34.2	8.0	5.9
Direct selling establishments	395	75.0	7.4	11.2
Fuel dealers	92	25.9	1.4	4.9
Retail florists	181	74.3	2.3	8.0

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

18. Employed persons by detailed industry, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Industry	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Finance, insurance, and real estate	8,815	58.0	10.7	7.4
Banking	1,918	68.8	14.2	7.8
Savings institutions, including credit unions	261	80.3	8.2	4.1
Security, commodity brokerage, and investment companies	1,004	40.2	6.7	4.6
Insurance	2,527	61.5	10.8	5.8
Real estate, including real estate-insurance offices	2,293	49.5	8.4	10.4
Services	48,687	62.0	12.7	8.9
Private households	940	91.6	16.0	27.5
Other service industries	47,747	61.4	12.6	8.6
Business, automobile, and repair services	9,046	36.3	11.5	11.2
Advertising	284	56.4	7.7	8.1
Services to dwellings and other buildings	820	47.6	17.9	25.6
Personnel supply services	1,066	58.9	21.3	11.8
Computer and data processing services	2,079	30.0	6.3	4.4
Detective and protective services	593	24.9	27.9	9.5
Automotive rental and leasing, without drivers	189	33.2	11.9	8.9
Automobile parking and carwashes	242	21.6	16.5	21.9
Automotive repair and related services	1,152	10.4	7.5	14.2
Electrical repair shops	113	15.7	3.2	11.9
Miscellaneous repair services	542	14.9	3.3	13.9
Personal services, except private household	3,548	65.1	13.3	15.5
Hotels and motels	1,388	58.0	15.7	21.0
Lodging places, except hotels and motels	153	40.1	2.8	6.2
Laundry, cleaning, and garment services	477	58.8	14.7	22.3
Beauty shops	911	89.9	12.2	10.3
Barber shops	80	21.5	24.5	12.2
Funeral service and crematories	103	39.0	16.6	6.3
Entertainment and recreation services	2,649	42.8	10.0	8.0
Theaters and motion pictures	711	36.8	10.8	8.3
Video tape rental	127	56.7	5.7	7.2
Bowling centers	52	37.5	8.4	.5
Miscellaneous entertainment and recreation services	1,758	44.3	10.0	8.2
Professional and related services	32,370	69.7	13.1	7.1
Hospitals	5,117	76.5	16.7	5.8
Health services, except hospitals	6,529	78.9	15.6	8.0
Offices and clinics of physicians	1,624	74.6	6.6	8.6
Offices and clinics of dentists	694	76.6	4.4	6.8
Offices and clinics of chiropractors	142	64.9	1.9	6.5
Offices and clinics of optometrists	77	64.9	1.2	9.6
Nursing and personal care facilities	1,786	86.7	25.5	7.2
Educational services	10,896	69.1	11.4	7.4
Elementary and secondary schools	7,451	75.8	11.9	7.8
Colleges and universities	2,919	52.1	10.7	6.5
Vocational schools	92	45.8	10.5	8.1
Libraries	189	78.5	9.1	9.6
Social services	3,426	82.7	19.5	9.9
Job training and vocational rehabilitation services	225	56.5	15.8	5.4
Child day care services	1,038	95.1	20.1	9.5
Family child care homes	481	97.5	14.0	15.7
Residential care facilities, without nursing	537	73.4	25.0	7.8
Other professional services	6,402	48.9	6.9	5.1
Legal services	1,365	56.6	7.0	6.4
Museums, art galleries, and zoos	121	64.0	11.2	4.0
Labor unions	63	40.8	10.6	8.5

See footnotes at end of table.

18. Employed persons by detailed industry, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Industry	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Religious organizations	947	52.0	9.4	5.7
Engineering, architectural, and surveying services	965	21.6	4.0	4.8
Accounting, auditing, and bookkeeping services	781	57.3	5.0	4.6
Research, development, and testing services	610	47.1	7.0	4.9
Management and public relations services	928	46.2	6.5	3.2
Miscellaneous professional and related services	288	59.5	4.2	2.0
Forestry and fisheries	135	21.1	4.4	7.1
Forestry	72	27.3	2.2	10.8
Fishing, hunting, and trapping	63	14.0	6.9	2.9
Public administration	5,958	44.6	16.7	6.8
Executive and legislative offices	153	58.9	6.2	2.9
Justice, public order, and safety	2,532	33.5	16.0	7.3
Public finance, taxation, and monetary policy	353	66.5	17.7	7.2
Administration of human resources programs	809	68.7	23.8	7.6
Administration of environmental quality and housing programs	245	42.2	9.3	4.6
Administration of economic programs	557	42.3	16.0	4.6
National security and international affairs	627	39.7	16.3	6.1

NOTE: Generally, data for industries with fewer than 50,000 employed are not published separately but are included in the totals for the

appropriate categories shown. Beginning in January 1999, data reflect revised population controls used in the household survey.

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19. Persons at work in agriculture and nonagricultural industries by hours of work

Hours of work	1999					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	128,081	3,132	124,948	100.0	100.0	100.0
1 to 34 hours	30,913	913	30,000	24.1	29.2	24.0
1 to 4 hours	1,230	67	1,164	1.0	2.1	.9
5 to 14 hours	4,844	197	4,647	3.8	6.3	3.7
15 to 29 hours	15,339	436	14,903	12.0	13.9	11.9
30 to 34 hours	9,500	213	9,286	7.4	6.8	7.4
35 hours and over	97,167	2,219	94,948	75.9	70.8	76.0
35 to 39 hours	8,670	160	8,510	6.8	5.1	6.8
40 hours	47,955	826	47,129	37.4	26.4	37.7
41 hours and over	40,542	1,234	39,309	31.7	39.4	31.5
41 to 48 hours	14,722	231	14,491	11.5	7.4	11.6
49 to 59 hours	14,986	366	14,620	11.7	11.7	11.7
60 hours and over	10,834	637	10,198	8.5	20.3	8.2
Average hours, total at work	39.6	41.9	39.5	-	-	-
Average hours, persons who usually work full time	43.4	48.1	43.3	-	-	-

NOTE: Detail on persons at work in tables 19-23 may not sum to the totals shown because of minor editing problems associated with the redesigned

survey. Beginning in January 1999, data reflect revised population controls used in the household survey.

20. Persons at work 1 to 34 hours in all and nonagricultural industries by reason for working less than 35 hours and usual full- or part-time status

(Numbers in thousands)

Reason for working less than 35 hours	1999					
	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	30,913	10,079	20,834	30,000	9,807	20,193
Economic reasons	3,357	1,281	2,076	3,189	1,193	1,996
Slack work or business conditions	1,968	1,021	947	1,861	962	899
Could only find part-time work	1,079	-	1,079	1,056	-	1,056
Seasonal work	147	97	50	115	74	41
Job started or ended during week	162	162	-	157	157	-
Noneconomic reasons	27,556	8,798	18,758	26,811	8,614	18,197
Child-care problems	856	86	770	843	84	759
Other family or personal obligations	5,629	746	4,882	5,476	727	4,749
Health or medical limitations	712	-	712	674	-	674
In school or training	6,463	100	6,363	6,320	97	6,223
Retired or Social Security limit on earnings	1,984	-	1,984	1,863	-	1,863
Vacation or personal day	3,239	3,239	-	3,188	3,188	-
Holiday, legal or religious	966	966	-	956	956	-
Weather-related curtailment	824	824	-	781	781	-
All other reasons	6,884	2,837	4,047	6,710	2,781	3,929
Average hours:						
Economic reasons	23.1	24.0	22.5	23.2	24.1	22.6
Noneconomic reasons	21.5	25.7	19.6	21.6	25.8	19.6

NOTE: Beginning in January 1999, data reflect revised population controls

used in the household survey.

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

(Numbers in thousands)

Industry and class of worker	1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
Total 16 years and over	124,948	30,000	3,189	8,614	18,197	94,948	39.5	43.3
Wage and salary workers	116,602	27,370	2,852	8,073	16,444	89,232	39.5	43.1
Mining	525	44	8	29	7	481	48.1	48.6
Construction	7,200	1,235	271	594	370	5,966	41.1	42.6
Manufacturing	19,081	2,167	265	1,209	694	16,914	42.7	43.6
Durable goods	11,703	1,212	123	755	334	10,491	43.1	43.8
Nondurable goods	7,378	955	142	454	360	6,423	42.0	43.3
Transportation and public utilities	8,751	1,368	158	616	594	7,383	42.5	44.3
Wholesale and retail trade	25,086	8,145	935	1,192	6,018	16,941	37.2	43.4
Finance, insurance, and real estate	7,887	1,469	79	632	758	6,418	40.3	42.5
Service industries	42,345	11,913	1,099	3,096	7,718	30,432	38.1	42.7
Private households	897	516	71	47	398	381	28.7	41.8
All other industries	41,447	11,397	1,028	3,049	7,319	30,051	38.3	42.7
Public administration	5,727	1,029	37	706	287	4,698	40.7	41.9
Self-employed workers	8,252	2,577	334	536	1,707	5,675	40.1	46.7
Unpaid family workers	95	54	3	5	46	41	33.4	45.7

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

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

(Numbers in thousands)

Age, sex, race, and marital status	1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
TOTAL								
Total, 16 years and over	124,948	30,000	3,189	8,614	18,197	94,948	39.5	43.3
16 to 19 years	6,706	4,690	329	234	4,127	2,016	25.2	39.5
16 to 17 years	2,591	2,303	74	42	2,187	288	19.0	37.7
18 to 19 years	4,115	2,387	255	192	1,940	1,728	29.2	39.8
20 years and over	118,242	25,310	2,860	8,380	14,070	92,932	40.3	43.4
20 to 24 years	12,184	3,864	527	734	2,603	8,320	36.4	41.5
25 years and over	106,059	21,447	2,334	7,645	11,468	84,612	40.8	43.6
25 to 54 years	90,523	16,545	2,028	6,527	7,990	73,978	41.4	43.6
55 years and over	15,536	4,902	306	1,118	3,477	10,635	37.4	43.1
Men, 16 years and over	66,785	11,255	1,501	4,094	5,660	55,531	42.4	44.8
16 to 19 years	3,396	2,217	165	124	1,928	1,179	26.7	40.2
16 to 17 years	1,305	1,137	41	23	1,074	168	19.9	38.3
18 to 19 years	2,091	1,079	124	101	854	1,011	31.0	40.5
20 years and over	63,389	9,038	1,336	3,969	3,732	54,351	43.2	44.9
20 to 24 years	6,316	1,629	274	335	1,020	4,687	38.4	42.6
25 years and over	57,073	7,408	1,062	3,634	2,712	49,664	43.7	45.2
25 to 54 years	48,518	5,265	912	3,053	1,300	43,253	44.4	45.3
55 years and over	8,554	2,143	151	581	1,412	6,411	39.9	44.4
Women, 16 years and over	58,163	18,745	1,688	4,520	12,536	39,418	36.2	41.2
16 to 19 years	3,309	2,473	164	110	2,199	836	23.7	38.6
16 to 17 years	1,285	1,166	33	19	1,113	120	18.1	36.9
18 to 19 years	2,024	1,307	131	91	1,085	717	27.2	38.9
20 years and over	54,853	16,272	1,524	4,410	10,338	38,581	37.0	41.3
20 to 24 years	5,867	2,234	253	399	1,582	3,633	34.3	40.3
25 years and over	48,986	14,038	1,271	4,011	8,756	34,948	37.3	41.4
25 to 54 years	42,004	11,280	1,116	3,474	6,690	30,724	37.8	41.5
55 years and over	6,982	2,758	155	537	2,066	4,224	34.2	41.1
Race								
White, 16 years and over	104,657	25,565	2,478	7,200	15,887	79,092	39.6	43.5
Men	56,959	9,575	1,196	3,525	4,853	47,384	42.6	45.0
Women	47,698	15,990	1,282	3,675	11,034	31,707	36.0	41.3
Black, 16 years and over	14,388	3,157	551	1,054	1,552	11,231	39.0	41.8
Men	6,704	1,160	233	397	531	5,544	40.9	43.3
Women	7,684	1,997	319	657	1,022	5,687	37.3	40.5
Marital status								
Men, 16 years and over:								
Married, spouse present	40,363	4,918	599	2,549	1,771	35,445	44.2	45.5
Widowed, divorced, or separated	7,963	1,188	216	538	434	6,775	42.9	44.6
Single (never married)	18,459	5,149	686	1,007	3,456	13,311	38.1	43.2
Women, 16 years and over:								
Married, spouse present	30,953	9,881	666	2,431	6,784	21,072	36.3	41.1
Widowed, divorced, or separated	11,667	2,962	383	1,020	1,559	8,706	38.5	41.7
Single (never married)	15,542	5,903	639	1,070	4,194	9,639	34.5	41.1

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

23. Persons at work in nonfarm occupations by sex and usual full- or part-time status

(Numbers in thousands)

Occupation and sex	1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
Total, 16 years and over ¹	124,812	29,988	3,182	8,593	18,214	94,824	39.5	43.3
Managerial and professional specialty	38,571	7,246	466	2,919	3,861	31,326	42.0	44.7
Executive, administrative, and managerial	18,951	2,746	154	1,335	1,257	16,205	43.9	45.7
Professional specialty	19,620	4,500	312	1,584	2,603	15,120	40.2	43.7
Technical, sales, and administrative support	37,460	10,597	849	2,564	7,184	26,864	37.7	42.3
Technicians and related support	4,201	912	55	328	529	3,289	39.4	42.2
Sales occupations	15,528	4,613	463	765	3,384	10,915	38.7	44.6
Administrative support, including clerical	17,731	5,071	331	1,470	3,270	12,660	36.4	40.4
Service occupations	17,181	6,678	847	955	4,876	10,503	34.9	42.1
Private household	799	462	63	42	358	336	28.5	41.5
Protective service	2,331	382	36	146	200	1,949	42.4	44.9
Service, except private household and protective	14,051	5,833	748	767	4,319	8,218	34.0	41.4
Precision production, craft, and repair	14,089	1,963	380	1,031	552	12,126	42.2	43.3
Operators, fabricators, and laborers	17,510	3,505	640	1,125	1,740	14,005	40.4	43.1
Machine operators, assemblers, and inspectors	7,127	1,045	209	478	358	6,082	40.9	42.2
Transportation and material moving occupations	5,284	924	150	308	466	4,360	43.3	45.9
Handlers, equipment cleaners, helpers, and laborers	5,100	1,537	281	339	917	3,563	36.8	41.4
Men, 16 years and over ¹	66,484	11,162	1,494	4,062	5,606	55,322	42.4	44.9
Managerial and professional specialty	19,760	2,526	208	1,246	1,072	17,234	45.1	46.7
Executive, administrative, and managerial	10,440	1,089	79	601	409	9,351	46.4	47.7
Professional specialty	9,320	1,437	129	645	664	7,882	43.5	45.7
Technical, sales, and administrative support	13,676	2,549	224	748	1,578	11,127	41.8	45.0
Technicians and related support	2,031	310	21	149	140	1,721	41.9	43.6
Sales occupations	7,827	1,457	135	333	989	6,371	43.0	46.7
Administrative support, including clerical	3,818	782	68	266	449	3,035	39.3	42.3
Service occupations	6,861	1,973	280	338	1,355	4,888	38.0	43.4
Private household	39	24	4	3	16	15	27.7	42.7
Protective service	1,896	260	23	113	123	1,636	43.6	45.5
Service, except private household and protective	4,926	1,689	252	221	1,215	3,237	35.9	42.4
Precision production, craft, and repair	12,842	1,705	340	933	432	11,137	42.4	43.4
Operators, fabricators, and laborers	13,344	2,409	442	797	1,169	10,935	41.4	43.9
Machine operators, assemblers, and inspectors	4,505	515	101	267	148	3,990	42.1	43.0
Transportation and material moving occupations	4,774	727	125	267	335	4,047	44.1	46.2
Handlers, equipment cleaners, helpers, and laborers	4,065	1,166	217	264	686	2,899	37.3	41.7
Women, 16 years and over ¹	58,328	18,826	1,688	4,531	12,607	39,502	36.2	41.2
Managerial and professional specialty	18,811	4,719	258	1,673	2,788	14,092	38.8	42.4
Executive, administrative, and managerial	8,511	1,657	75	733	849	6,854	40.7	43.1
Professional specialty	10,300	3,063	183	939	1,940	7,238	37.3	41.7
Technical, sales, and administrative support	23,784	8,047	625	1,816	5,606	15,737	35.3	40.5
Technicians and related support	2,170	602	34	179	389	1,568	37.0	40.5
Sales occupations	7,701	3,156	328	432	2,396	4,544	34.2	41.7
Administrative support, including clerical	13,913	4,289	263	1,204	2,821	9,624	35.6	39.9
Service occupations	10,320	4,705	567	617	3,521	5,615	32.8	40.9
Private household	760	438	58	38	342	321	28.5	41.4
Protective service	435	122	13	33	77	313	37.2	42.0
Service, except private household and protective	9,125	4,144	495	546	3,103	4,981	33.0	40.8
Precision production, craft, and repair	1,248	259	40	98	120	989	39.3	41.7
Operators, fabricators, and laborers	4,166	1,096	198	327	571	3,070	37.5	40.6
Machine operators, assemblers, and inspectors	2,621	529	109	211	210	2,092	38.8	40.7
Transportation and material moving occupations	510	197	25	40	131	313	35.7	41.8
Handlers, equipment cleaners, helpers, and laborers	1,035	370	64	76	231	665	34.9	40.0

¹ Excludes farming, forestry, and fishing occupations.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

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24. 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	
	1998	1999	1998	1999	1998	1999	1998	1999
Total, 16 years and over	3,266	3,066	4.4	4.1	2,944	2,814	4.6	4.3
Married, spouse present	1,034	990	2.4	2.2	985	921	2.9	2.7
Widowed, divorced, or separated	435	411	4.8	4.6	628	585	4.9	4.5
Single (never married)	1,798	1,665	8.5	7.8	1,332	1,308	7.8	7.4
White, 16 years and over	2,431	2,274	3.9	3.6	2,053	1,999	3.9	3.8
Married, spouse present	836	797	2.2	2.1	808	749	2.7	2.5
Widowed, divorced, or separated	334	320	4.5	4.3	449	427	4.4	4.2
Single (never married)	1,261	1,157	7.4	6.7	797	823	6.3	6.3
Black, 16 years and over	671	626	8.9	8.2	756	684	9.0	7.8
Married, spouse present	133	130	3.9	3.8	120	119	4.5	4.2
Widowed, divorced, or separated	84	77	6.9	6.3	156	134	7.0	6.1
Single (never married)	455	419	15.4	14.0	480	430	13.5	11.7
Total, 25 years and over	1,998	1,870	3.2	3.0	1,926	1,805	3.6	3.3
Married, spouse present	980	925	2.3	2.1	878	828	2.7	2.5
Widowed, divorced, or separated	415	393	4.8	4.5	590	544	4.8	4.3
Single (never married)	602	553	5.5	4.9	458	433	5.4	4.9
White, 25 years and over	1,516	1,415	2.8	2.6	1,361	1,294	3.1	2.9
Married, spouse present	790	744	2.1	2.0	717	671	2.5	2.4
Widowed, divorced, or separated	318	305	4.4	4.3	418	396	4.3	4.0
Single (never married)	407	366	4.7	4.2	226	227	3.8	3.8
Black, 25 years and over	373	345	6.0	5.4	471	423	6.8	5.9
Married, spouse present	126	120	3.8	3.6	109	107	4.3	4.0
Widowed, divorced, or separated	81	74	6.8	6.2	151	127	6.9	5.9
Single (never married)	166	152	9.5	8.4	211	188	9.5	8.1

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

25. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1998	1999	1998	1999	1998	1999	1998	1999
Total, 16 years and over ¹	6,210	5,880	4.5	4.2	4.4	4.1	4.6	4.3
Managerial and professional specialty	722	770	1.8	1.9	1.7	1.8	2.0	1.9
Executive, administrative, and managerial	343	376	1.8	1.9	1.6	1.7	2.0	2.0
Professional specialty	380	394	1.9	1.9	1.8	1.8	2.0	1.9
Technical, sales, and administrative support	1,550	1,477	3.9	3.7	3.3	3.2	4.2	3.9
Technicians and related support	96	101	2.2	2.3	2.3	2.6	2.1	1.9
Sales occupations	745	714	4.5	4.2	3.3	3.0	5.6	5.4
Administrative support, including clerical	710	662	3.7	3.5	4.0	3.7	3.6	3.4
Service occupations	1,216	1,081	6.4	5.7	6.3	5.5	6.4	5.8
Private household	74	67	8.0	7.4	8.7	6.0	8.0	7.5
Protective service	85	72	3.4	2.9	3.1	2.4	5.0	4.9
Service, except private household and protective	1,057	943	6.8	6.0	7.5	6.7	6.3	5.7
Precision production, craft, and repair	630	607	4.2	4.0	4.1	3.9	4.8	5.2
Mechanics and repairers	149	136	3.0	2.7	3.1	2.6	2.3	4.8
Construction trades	338	330	5.7	5.4	5.6	5.3	10.4	8.8
Other precision production, craft, and repair	143	142	3.4	3.5	3.1	3.1	4.6	4.7
Operators, fabricators, and laborers	1,304	1,207	6.7	6.2	6.3	5.9	7.7	7.3
Machine operators, assemblers, and inspectors	494	440	6.0	5.6	5.0	4.7	7.6	7.2
Transportation and material moving occupations	279	235	4.9	4.1	4.8	4.0	6.3	5.3
Handlers, equipment cleaners, helpers, and laborers	531	532	9.4	9.2	9.6	9.4	8.8	8.4
Construction laborers	136	140	14.2	13.2	14.2	13.0	16.0	18.2
Other handlers, equipment cleaners, helpers, and laborers	395	392	8.4	8.3	8.4	8.4	8.5	8.0
Farming, forestry, and fishing	244	249	6.5	6.8	6.1	6.2	8.0	9.0
No previous work experience	520	469	-	-	-	-	-	-
16 to 19 years	361	328	-	-	-	-	-	-
20 to 24 years	80	67	-	-	-	-	-	-
25 years and over	80	74	-	-	-	-	-	-

¹ Includes a small number of persons whose last job was in the Armed Forces.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

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26. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1998	1999	1998	1999	1998	1999	1998	1999
Total, 16 years and over	6,210	5,880	4.5	4.2	4.4	4.1	4.6	4.3
Nonagricultural private wage and salary workers	4,873	4,590	4.6	4.3	4.5	4.1	4.8	4.5
Mining	20	33	3.2	5.7	3.4	5.8	1.8	5.4
Construction	532	520	7.5	7.0	7.7	7.1	5.9	5.8
Manufacturing	816	739	3.9	3.6	3.3	3.1	5.2	4.7
Durable goods	426	434	3.4	3.5	3.0	3.2	4.2	4.3
Lumber and wood products	43	41	5.2	5.2	5.3	5.4	4.8	4.4
Furniture and fixtures	26	26	3.8	4.0	3.5	3.2	4.6	5.7
Stone, clay, and glass products	18	19	3.1	2.9	2.4	2.8	5.4	3.5
Primary metal industries	27	20	3.6	2.5	3.4	2.7	4.8	1.5
Fabricated metal products	49	53	3.5	4.0	3.4	3.8	3.7	4.8
Machinery, except electrical	78	77	3.1	3.1	2.9	3.1	3.8	3.1
Electrical machinery, equipment, and supplies	54	65	2.7	3.3	2.4	2.7	3.3	4.3
Transportation equipment	72	69	3.0	2.9	2.6	2.4	4.4	4.5
Automobiles	47	39	3.4	2.9	3.0	2.1	4.9	5.2
Other transportation equipment	25	30	2.4	3.0	2.1	2.9	3.5	3.5
Professional and photographic equipment	20	24	2.5	3.2	2.0	2.8	3.4	3.7
Other durable goods industries	38	40	5.6	5.6	4.2	5.3	7.5	6.4
Nondurable goods	390	305	4.7	3.9	3.7	3.0	6.2	5.2
Food and kindred products	111	74	6.4	4.4	5.2	3.2	8.6	6.6
Textile mill products	29	26	4.7	4.8	3.7	3.6	5.9	6.4
Apparel and other textile products	76	66	8.8	8.6	6.0	6.7	10.1	9.5
Paper and allied products	18	18	2.6	2.8	2.4	2.8	3.3	2.6
Printing and publishing	67	48	3.8	2.8	3.5	2.9	4.2	2.6
Chemicals and allied products	34	28	2.5	2.2	2.1	1.7	3.3	3.1
Rubber and miscellaneous plastics products	38	33	3.8	3.6	3.1	2.8	5.5	5.3
Other nondurable goods industries	16	12	4.6	3.7	4.0	2.5	5.9	6.6
Transportation and public utilities	254	235	3.4	3.0	3.3	3.0	3.5	3.2
Transportation	185	164	4.0	3.4	4.0	3.5	4.0	3.3
Communications and other public utilities	69	71	2.4	2.4	2.1	2.0	2.9	3.1
Wholesale and retail trade	1,493	1,422	5.5	5.2	5.1	4.5	6.0	6.0
Wholesale trade	185	156	3.7	3.1	3.4	2.6	4.6	4.1
Retail trade	1,308	1,266	6.0	5.7	5.7	5.1	6.2	6.2
Finance, insurance, and real estate	197	191	2.5	2.3	2.3	2.4	2.6	2.3
Service industries	1,562	1,450	4.5	4.1	4.7	4.2	4.4	4.0
Professional services	593	546	2.9	2.6	2.5	2.3	3.1	2.7
Other service industries	968	903	6.9	6.2	6.5	5.7	7.3	6.8
Agricultural wage and salary workers	180	189	8.3	8.9	7.9	8.6	9.3	9.6
Government, self-employed, and unpaid family workers	636	631	2.2	2.1	2.0	2.1	2.3	2.1
No previous work experience	520	469	—	—	—	—	—	—

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

27. Unemployed persons by reason for unemployment, sex, and age

(Numbers in thousands)

Reason	Total, 16 years and over		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	1998	1999	1998	1999	1998	1999	1998	1999
NUMBER OF UNEMPLOYED								
Total unemployed	6,210	5,880	2,580	2,433	2,424	2,285	1,205	1,162
Job losers and persons who completed temporary jobs	2,822	2,622	1,588	1,459	1,053	990	181	173
On temporary layoff	866	848	483	475	322	310	61	63
Not on temporary layoff	1,957	1,774	1,105	984	731	680	120	110
Permanent job losers	1,353	1,225	763	685	527	481	64	59
Persons who completed temporary jobs	603	549	343	299	204	199	56	51
Job leavers	734	783	318	336	330	333	86	114
Reentrants	2,132	2,005	611	592	944	866	577	547
New entrants	520	469	63	46	97	96	361	328
PERCENT DISTRIBUTION								
Job losers and persons who completed temporary jobs	45.5	44.6	61.5	60.0	43.4	43.3	15.0	14.9
On temporary layoff	13.9	14.4	18.7	19.5	13.3	13.6	5.1	5.4
Not on temporary layoff	31.5	30.2	42.8	40.4	30.2	29.7	10.0	9.5
Job leavers	11.8	13.3	12.3	13.8	13.6	14.6	7.2	9.8
Reentrants	34.3	34.1	23.7	24.3	39.0	37.9	47.9	47.1
New entrants	8.4	8.0	2.4	1.9	4.0	4.2	30.0	28.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers and persons who completed temporary jobs	2.1	1.9	2.3	2.1	1.8	1.6	2.2	2.1
Job leavers	.5	.6	.5	.5	.6	.5	1.0	1.4
Reentrants	1.5	1.4	.9	.8	1.6	1.4	7.0	6.6
New entrants	.4	.3	.1	.1	.2	.2	4.4	3.9

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

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28. Unemployed persons by reason for unemployment, race, and Hispanic origin

(Numbers in thousands)

Reason for unemployment	Total		White		Black		Hispanic origin	
	1998	1999	1998	1999	1998	1999	1998	1999
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,210	5,880	4,484	4,273	1,426	1,309	1,026	945
Job losers and persons who completed temporary jobs	2,822	2,622	2,116	1,968	585	529	471	444
On temporary layoff	866	848	716	702	116	111	146	155
Not on temporary layoff	1,957	1,774	1,399	1,266	469	418	325	289
Permanent job losers	1,353	1,225	988	892	300	269	206	185
Persons who completed temporary jobs	603	549	412	374	170	149	119	104
Job leavers	734	783	568	617	133	134	95	91
Reentrants	2,132	2,005	1,467	1,385	558	516	346	317
New entrants	520	469	333	303	151	131	113	93
PERCENT DISTRIBUTION								
Job losers and persons who completed temporary jobs	45.5	44.6	47.2	46.1	41.0	40.4	46.0	47.0
On temporary layoff	13.9	14.4	16.0	16.4	8.1	8.5	14.3	16.4
Not on temporary layoff	31.5	30.2	31.2	29.6	32.9	31.9	31.7	30.6
Job leavers	11.8	13.3	12.7	14.4	9.3	10.2	9.3	9.7
Reentrants	34.3	34.1	32.7	32.4	39.1	39.4	33.7	33.5
New entrants	8.4	8.0	7.4	7.1	10.6	10.0	11.0	9.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers and persons who completed temporary jobs	2.1	1.9	1.8	1.7	3.7	3.2	3.3	3.0
Job leavers	.5	.6	.5	.5	.8	.8	.7	.6
Reentrants	1.5	1.4	1.3	1.2	3.5	3.2	2.4	2.2
New entrants	.4	.3	.3	.3	.9	.8	.8	.6

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

29. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment

(Percent distribution)

Reason, sex, and age	1999						
	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	5,880	100.0	43.7	31.2	25.2	12.8	12.3
Job losers and persons who completed temporary jobs	2,622	100.0	43.7	31.2	25.1	14.5	10.5
On temporary layoff	848	100.0	55.5	31.6	12.9	9.3	3.7
Not on temporary layoff	1,774	100.0	38.1	31.1	30.8	17.1	13.8
Permanent job losers	1,225	100.0	35.6	31.0	33.4	18.7	14.7
Persons who completed temporary jobs	549	100.0	43.7	31.3	25.1	13.4	11.7
Job leavers	783	100.0	51.1	29.2	19.6	10.3	9.4
Reentrants	2,005	100.0	41.0	31.5	27.5	11.9	15.6
New entrants	469	100.0	42.4	32.3	25.2	11.8	13.5
Men, 20 years and over	2,433	100.0	40.1	30.8	29.0	14.2	14.8
Job losers and persons who completed temporary jobs	1,459	100.0	41.4	32.0	26.6	15.2	11.4
On temporary layoff	475	100.0	51.8	34.3	13.9	10.6	3.3
Not on temporary layoff	984	100.0	36.3	30.9	32.7	17.4	15.4
Permanent job losers	685	100.0	33.8	30.4	35.7	18.9	16.8
Persons who completed temporary jobs	299	100.0	42.0	32.1	25.9	13.8	12.1
Job leavers	336	100.0	48.2	28.7	23.1	11.1	11.9
Reentrants	592	100.0	33.0	29.5	37.5	14.1	23.4
New entrants	46	100.0	33.5	27.1	39.4	9.0	30.4
Women, 20 years and over	2,285	100.0	42.6	31.0	26.4	13.6	12.8
Job losers and persons who completed temporary jobs	990	100.0	43.5	30.7	25.8	15.1	10.7
On temporary layoff	310	100.0	56.9	30.1	13.1	8.2	4.8
Not on temporary layoff	680	100.0	37.3	31.0	31.6	18.2	13.4
Permanent job losers	481	100.0	35.1	31.4	33.5	20.0	13.5
Persons who completed temporary jobs	199	100.0	42.6	30.3	27.1	13.6	13.4
Job leavers	333	100.0	49.2	30.3	20.5	11.4	9.1
Reentrants	866	100.0	40.1	31.6	28.3	12.5	15.8
New entrants	96	100.0	34.1	29.3	36.7	16.1	20.6
Both sexes, 16 to 19 years	1,162	100.0	53.1	32.2	14.7	8.5	6.2
Job losers and persons who completed temporary jobs	173	100.0	65.0	27.4	7.5	6.2	1.4
On temporary layoff	63	100.0	76.2	18.8	4.9	3.8	1.1
Not on temporary layoff	110	100.0	58.7	32.3	9.0	7.5	1.5
Permanent job losers	59	100.0	59.6	34.2	6.1	5.6	.5
Persons who completed temporary jobs	51	100.0	57.5	30.1	12.4	9.7	2.6
Job leavers	114	100.0	65.4	27.5	7.2	4.5	2.7
Reentrants	547	100.0	51.0	33.6	15.3	8.6	6.8
New entrants	328	100.0	46.1	34.0	19.9	10.9	9.0

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

30. Unemployed total and full-time workers by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	1998	1999	1998	1999	1998	1999	1998	1999
Total, 16 years and over	6,210	5,880	100.0	100.0	4,916	4,669	100.0	100.0
Less than 5 weeks	2,622	2,568	42.2	43.7	1,909	1,899	38.8	40.7
5 to 14 weeks	1,950	1,832	31.4	31.2	1,574	1,480	32.0	31.7
5 to 10 weeks	1,375	1,283	22.1	21.8	1,093	1,018	22.2	21.8
11 to 14 weeks	575	549	9.3	9.3	481	462	9.8	9.9
15 weeks and over	1,637	1,480	26.4	25.2	1,433	1,290	29.1	27.6
15 to 26 weeks	763	755	12.3	12.8	662	656	13.5	14.1
27 weeks and over	875	725	14.1	12.3	771	634	15.7	13.6
27 to 51 weeks	379	325	6.1	5.5	340	289	6.9	6.2
52 weeks and over	496	400	8.0	6.8	431	345	8.8	7.4
Average (mean) duration, in weeks	14.5	13.4	—	—	15.6	14.4	—	—
Median duration, in weeks	6.7	6.4	—	—	7.6	7.3	—	—

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

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31. Unemployed persons by selected demographic characteristics and duration of unemployment

Characteristic	1999							
	Thousands of persons						Weeks	
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration
				Total	15 to 26 weeks	27 weeks and over		
TOTAL								
Total, 16 years and over	5,880	2,568	1,832	1,480	755	725	13.4	6.4
16 to 19 years	1,162	617	374	170	98	72	8.7	4.2
20 to 24 years	1,042	515	324	203	113	89	10.9	4.7
25 to 34 years	1,278	539	402	337	179	159	13.5	6.9
35 to 44 years	1,154	449	353	352	176	177	15.9	7.9
45 to 54 years	753	271	234	248	116	132	16.7	8.5
55 to 64 years	367	129	109	128	58	70	17.8	8.9
65 years and over	124	47	36	41	15	26	19.5	8.2
Men, 16 years and over	3,066	1,309	957	800	401	399	14.0	6.7
16 to 19 years	633	332	207	94	55	39	8.7	4.3
20 to 24 years	562	274	171	117	65	53	11.4	4.9
25 to 34 years	624	257	195	172	90	82	14.1	7.2
35 to 44 years	571	213	180	178	90	88	16.6	8.2
45 to 54 years	403	141	125	137	62	75	17.3	9.0
55 to 64 years	203	67	60	77	31	45	19.8	9.7
65 years and over	70	24	20	26	8	17	22.8	9.6
Women, 16 years and over	2,814	1,259	875	680	354	326	12.7	6.1
16 to 19 years	529	285	167	76	43	33	8.8	4.2
20 to 24 years	480	241	153	86	49	37	10.3	4.5
25 to 34 years	654	282	207	166	89	77	13.0	6.6
35 to 44 years	584	236	174	174	86	88	15.2	7.5
45 to 54 years	350	130	109	111	54	57	16.0	8.1
55 to 64 years	163	63	49	51	26	25	15.3	7.9
65 years and over	54	22	16	16	7	9	15.2	6.4
Race and Hispanic origin								
White, 16 years and over	4,273	1,977	1,323	972	520	452	12.2	5.6
Men	2,274	1,021	712	540	283	257	12.7	6.0
Women	1,999	956	611	432	237	195	11.5	5.1
Black, 16 years and over	1,309	468	412	429	195	235	17.2	8.8
Men	626	219	193	214	96	118	18.0	9.0
Women	684	249	219	216	99	117	16.5	8.6
Hispanic origin, 16 years and over	945	426	296	223	120	103	12.5	6.1
Men	480	221	149	110	60	50	12.1	5.7
Women	466	205	147	113	60	53	12.9	6.5
Marital status								
Men, 16 years and over:								
Married, spouse present	990	386	310	294	149	145	15.3	7.8
Widowed, divorced, or separated	411	157	128	126	60	66	16.0	8.1
Single (never married)	1,665	766	519	380	193	187	12.7	5.6
Women, 16 years and over:								
Married, spouse present	921	412	278	231	123	108	12.6	5.9
Widowed, divorced, or separated	585	233	183	169	81	88	15.0	7.5
Single (never married)	1,308	614	414	280	150	130	11.8	5.5

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. Beginning in

January 1999, data reflect revised population controls used in the household survey.

32. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	1999							
	Thousands of persons					Weeks		
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration
				Total	15 to 26 weeks	27 weeks and over		
OCCUPATION								
Managerial and professional specialty	770	316	240	214	107	107	14.4	7.1
Technical, sales, and administrative support	1,477	672	457	347	190	157	12.2	5.9
Service occupations	1,081	490	320	271	123	148	13.8	5.9
Precision production, craft, and repair	607	271	189	147	81	66	12.7	6.0
Operators, fabricators, and laborers	1,207	511	374	322	166	156	14.0	7.0
Farming, forestry, and fishing	249	100	92	57	30	26	11.9	6.8
INDUSTRY¹								
Agriculture	189	75	72	41	25	17	11.2	7.1
Construction	527	225	174	127	72	55	12.8	6.8
Manufacturing	743	299	223	221	113	108	15.0	7.6
Durable goods	437	178	123	137	70	67	15.5	7.7
Nondurable goods	306	121	100	84	43	41	14.3	7.6
Transportation and public utilities	267	108	85	74	36	38	14.8	7.1
Wholesale and retail trade	1,430	676	436	318	167	151	12.0	5.2
Finance, insurance, and real estate	195	79	55	61	33	28	13.9	7.4
Services	1,675	754	522	399	198	201	13.1	6.0
Public administration	123	40	39	45	21	24	19.8	9.6
No previous work experience	469	199	152	118	55	63	14.4	6.4

¹ Includes wage and salary workers only.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

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33. Unemployed jobseekers by sex, age, race, and active jobsearch methods used

(Numbers in thousands)

Sex, age, and race	1999									
	Thousands of persons		Methods used as a percent of total jobseekers							Average number of methods used
	Total unemployed	Total job-seekers	Employer directly	Sent out resumes or filled out applications	Placed or answered ads	Friends or relatives	Public employment agency	Private employment agency	Other	
Total, 16 years and over	5,880	5,032	65.4	49.4	14.5	14.0	17.6	7.0	9.7	1.78
16 to 19 years	1,162	1,099	64.2	53.3	8.7	9.3	8.0	2.5	5.4	1.51
20 to 24 years	1,042	948	67.5	49.3	14.1	12.0	16.9	7.0	8.6	1.76
25 to 34 years	1,278	1,082	65.3	50.5	16.4	15.8	21.3	8.0	10.6	1.88
35 to 44 years	1,154	939	66.5	47.5	17.1	16.7	22.1	9.1	10.6	1.90
45 to 54 years	753	590	65.2	48.0	17.7	16.0	22.4	10.3	14.6	1.95
55 to 64 years	367	284	62.3	44.3	16.9	18.4	18.8	7.0	12.0	1.80
65 years and over	124	89	59.6	33.0	10.1	13.2	14.2	5.8	11.9	1.49
Men, 16 years and over	3,066	2,553	66.7	48.2	14.6	15.1	17.6	7.0	10.3	1.80
16 to 19 years	633	595	64.0	52.8	8.7	9.5	7.9	2.3	5.1	1.50
20 to 24 years	562	495	67.5	47.6	14.4	12.9	16.2	6.3	9.5	1.75
25 to 34 years	624	497	68.6	48.9	17.2	19.1	22.0	8.8	11.2	1.96
35 to 44 years	571	449	69.5	46.1	16.4	18.7	22.2	9.3	11.7	1.94
45 to 54 years	403	304	67.1	47.0	18.6	16.0	25.0	10.9	16.4	2.02
55 to 64 years	203	159	62.5	44.0	17.7	19.3	18.4	7.2	13.3	1.83
65 years and over	70	53	56.6	31.6	8.1	14.2	15.8	6.0	14.1	1.48
Women, 16 years and over	2,814	2,479	64.1	50.6	14.4	12.8	17.5	7.0	9.0	1.76
16 to 19 years	529	504	64.4	53.9	8.6	9.1	8.0	2.7	5.7	1.53
20 to 24 years	480	452	67.4	51.1	13.8	11.0	17.6	7.8	7.6	1.77
25 to 34 years	654	586	62.6	51.9	15.7	13.0	20.7	7.4	10.2	1.82
35 to 44 years	584	490	63.8	48.7	17.7	14.8	22.0	9.0	9.6	1.86
45 to 54 years	350	286	63.1	49.1	16.7	16.1	19.5	9.7	12.7	1.87
55 to 64 years	163	125	62.0	44.6	15.8	17.2	19.4	6.7	10.5	1.76
65 years and over	54	36	64.1	35.1	13.1	11.9	11.8	5.5	8.6	1.50
White, 16 years and over	4,273	3,571	65.7	49.8	15.0	13.9	16.6	7.0	10.4	1.79
Men	2,274	1,843	67.0	48.9	15.1	15.1	17.0	7.1	11.3	1.82
Women	1,999	1,728	64.4	50.7	15.0	12.6	16.3	6.8	9.4	1.76
Black, 16 years and over	1,309	1,199	64.8	48.7	13.1	13.6	20.9	7.0	7.3	1.76
Men	626	566	66.6	46.8	13.3	14.6	20.3	6.2	6.9	1.75
Women	684	632	63.1	50.5	13.0	12.7	21.6	7.8	7.6	1.76

NOTE: The jobseekers total is less than the total unemployed because it does not include persons on temporary layoff. The percent using each method will always total more than 100 because many jobseekers use more than one

method. Beginning in January 1999, data reflect revised population controls used in the household survey

34. Unemployed jobseekers by sex, reason for unemployment, and active jobsearch methods used

Sex and reason	1999									
	Thousands of persons		Methods used as a percent of total jobseekers							Average number of methods used
	Total unemployed	Total job-seekers	Employer directly	Sent out resumes or filled out applications	Placed or answered ads	Friends or relatives	Public employment agency	Private employment agency	Other	
Total, 16 years and over	5,880	5,032	65.4	49.4	14.5	14.0	17.6	7.0	9.7	1.78
Job losers and persons who completed temporary jobs ¹	2,622	1,774	68.5	49.1	17.8	17.4	23.9	9.6	10.9	1.98
Job leavers	783	783	68.6	51.2	17.0	13.6	18.1	7.9	9.6	1.86
Reentrants	2,005	2,005	62.2	48.5	11.7	11.9	13.9	5.5	9.3	1.63
New entrants	469	469	62.5	50.9	9.6	10.4	8.7	2.1	6.6	1.51
Men, 16 years and over	3,066	2,553	66.7	48.2	14.6	15.1	17.6	7.0	10.3	1.80
Job losers and persons who completed temporary jobs ¹	1,563	1,050	69.3	47.7	17.7	18.7	23.3	9.2	11.8	1.98
Job leavers	389	389	71.1	49.6	16.8	14.7	18.9	8.3	9.7	1.89
Reentrants	895	895	62.8	47.6	11.0	12.6	13.1	5.2	10.0	1.63
New entrants	219	219	62.1	50.4	10.0	8.9	6.9	.9	5.8	1.45
Women, 16 years and over	2,814	2,479	64.1	50.6	14.4	12.8	17.5	7.0	9.0	1.76
Job losers and persons who completed temporary jobs ¹	1,059	724	67.2	51.2	18.0	15.5	24.7	10.1	9.5	1.97
Job leavers	394	394	66.2	52.9	17.1	12.4	17.3	7.6	9.5	1.83
Reentrants	1,111	1,111	61.7	49.2	12.2	11.4	14.5	5.8	8.8	1.64
New entrants	250	250	62.9	51.3	9.3	11.7	10.4	3.1	7.3	1.56

¹ Data on the number of jobseekers and the jobsearch methods used exclude persons on temporary layoff.

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on temporary layoff. The percent using each method will

always total more than 100 because many jobseekers use more than one method. Beginning in January 1999, data reflect revised population controls used in the household survey.

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35. Persons not in the labor force by desire and availability for work, age, and sex

(In thousands)

Category	Total		Age						Sex			
	1998	1999	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
Total not in the labor force	67,547	68,385	11,343	11,740	18,732	18,785	37,472	37,861	24,799	25,210	42,748	43,175
Do not want a job now ¹	62,735	63,818	9,491	9,938	16,580	16,814	36,664	37,066	22,790	23,307	39,945	40,511
Want a job ¹	4,812	4,568	1,852	1,802	2,152	1,971	807	795	2,008	1,903	2,803	2,665
Did not search for work in previous year	2,859	2,723	1,011	981	1,240	1,144	608	599	1,134	1,083	1,725	1,640
Searched for work in previous year ²	1,953	1,844	841	822	912	827	200	196	875	820	1,078	1,024
Not available to work now	643	644	332	345	275	258	36	41	250	249	392	395
Available to work now	1,310	1,201	509	477	637	569	164	155	624	571	686	629
Reason not currently looking:												
Discouragement over job prospects ³	331	273	108	86	170	146	53	41	198	161	133	113
Reasons other than discouragement	979	927	401	391	467	423	111	114	427	411	552	517
Family responsibilities	143	132	37	29	93	92	13	11	23	29	120	103
In school or training	206	214	173	176	32	34	1	4	105	110	102	104
Ill health or disability	104	97	14	13	69	57	21	26	52	39	52	58
Other ⁴	525	485	177	173	273	239	75	73	247	234	278	251

¹ Includes some persons who are not asked if they want a job.

² Persons who had a job in the prior 12 months must have searched since the end of that job.

³ Includes believes no work available, could not find work, lacks necessary schooling or training, employer thinks too young or old, and other types of discrimination.

⁴ Includes those who did not actively look for work in the prior 4 weeks for such reasons as child-care and transportation problems, as well as a small number for which reason for nonparticipation was not ascertained.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

36. Multiple jobholders by selected demographic and economic characteristics

(Numbers in thousands)

Characteristic	Both sexes				Men				Women			
	Number		Rate ¹		Number		Rate ¹		Number		Rate ¹	
	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
AGE												
Total, 16 years and over ²	7,926	7,802	6.0	5.8	4,178	4,104	5.9	5.7	3,748	3,698	6.2	6.0
16 to 19 years	335	343	4.8	4.8	138	153	3.9	4.1	198	190	5.7	5.5
20 years and over	7,590	7,460	6.1	5.9	4,040	3,952	6.0	5.8	3,550	3,508	6.2	6.0
20 to 24 years	788	751	6.3	5.8	363	341	5.5	5.1	425	410	7.2	6.7
25 years and over	6,802	6,708	6.1	5.9	3,677	3,610	6.1	5.9	3,126	3,098	6.1	5.9
25 to 54 years	6,011	5,886	6.3	6.1	3,228	3,146	6.3	6.1	2,783	2,740	6.3	6.1
55 years and over	791	822	4.8	4.8	449	464	4.9	4.9	342	358	4.6	4.7
55 to 64 years	682	701	5.3	5.3	378	387	5.4	5.3	303	314	5.2	5.2
65 years and over	109	122	2.9	3.1	71	77	3.3	3.4	39	45	2.5	2.7
RACE AND HISPANIC ORIGIN												
White	6,832	6,674	6.2	5.9	3,622	3,514	6.0	5.7	3,210	3,159	6.4	6.2
Black	802	831	5.5	5.5	406	442	5.9	6.3	396	389	5.2	4.8
Hispanic origin	503	490	3.8	3.6	299	280	3.7	3.5	204	210	3.9	3.7
MARITAL STATUS												
Married, spouse present	4,414	4,309	5.8	5.6	2,664	2,566	6.2	5.9	1,750	1,744	5.3	5.2
Widowed, divorced, or separated	1,385	1,356	6.7	6.5	498	490	5.8	5.8	887	866	7.3	7.0
Single (never married)	2,127	2,137	6.1	5.9	1,016	1,048	5.3	5.3	1,110	1,089	7.0	6.7
FULL- OR PART-TIME STATUS												
Primary job full time, secondary job part time	4,478	4,293	-	-	2,608	2,497	-	-	1,870	1,796	-	-
Primary and secondary jobs both part time	1,635	1,657	-	-	512	519	-	-	1,124	1,138	-	-
Primary and secondary jobs both full time	266	298	-	-	188	204	-	-	78	94	-	-
Hours vary on primary or secondary job	1,504	1,513	-	-	848	861	-	-	656	652	-	-

¹ Multiple jobholders as a percent of all employed persons in specified group.

² Includes a small number of persons who work part time on their primary job and full time on their secondary jobs(s), not shown separately.

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

37. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1998	1999	1998	1999
SEX AND AGE				
Total, 16 years and over	95,595	97,626	\$523	\$549
Men, 16 years and over	54,313	55,181	598	618
16 to 24 years	6,325	6,444	334	356
25 years and over	47,988	48,738	639	668
Women, 16 years and over	41,282	42,444	456	473
16 to 24 years	4,721	4,830	305	324
25 years and over	36,561	37,615	485	497
RACE, HISPANIC ORIGIN, AND SEX				
White	79,403	80,849	545	573
Men	46,087	46,825	615	638
Women	33,316	34,024	468	483
Black	11,776	12,190	426	445
Men	5,751	5,846	468	488
Women	6,025	6,344	400	409
Hispanic origin	10,532	10,950	370	385
Men	6,716	6,788	390	406
Women	3,816	4,162	337	348

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

38. Median weekly earnings of part-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1998	1999	1998	1999
SEX AND AGE				
Total, 16 years and over	20,862	21,065	\$156	\$164
Men, 16 years and over	6,501	6,570	146	154
16 to 24 years	3,582	3,651	119	124
25 years and over	2,919	2,919	197	208
Women, 16 years and over	14,361	14,495	161	168
16 to 24 years	4,500	4,647	118	121
25 years and over	9,861	9,848	191	201
RACE, HISPANIC ORIGIN, AND SEX				
White	17,886	18,054	157	165
Men	5,470	5,523	146	155
Women	12,416	12,531	163	170
Black	2,096	2,135	149	153
Men	688	725	145	149
Women	1,408	1,410	151	155
Hispanic origin	1,828	1,847	154	160
Men	632	658	162	162
Women	1,196	1,190	150	159

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.

Beginning in January 1999, data reflect revised population controls used in the household survey.

39. Median weekly earnings of full-time wage and salary workers by detailed occupation and sex

(Numbers in thousands)

Occupation	1999					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Total, 16 years and over	97,626	\$549	55,181	\$618	42,444	\$473
Managerial and professional specialty	30,704	797	15,537	952	15,167	681
Executive, administrative, and managerial	14,973	792	7,981	967	6,992	652
Administrators and officials, public administration	610	877	300	1,007	310	725
Administrators, protective services	55	889	44	(¹)	11	(¹)
Financial managers	697	878	344	1,154	353	703
Personnel and labor relations managers	181	831	74	1,014	108	742
Purchasing managers	139	803	74	989	65	699
Managers, marketing, advertising, and public relations	695	1,036	441	1,241	254	800
Administrators, education and related fields	703	913	282	1,076	420	819
Managers, medicine and health	602	759	139	1,006	462	714
Managers, food serving and lodging establishments	946	524	498	617	449	461
Managers, properties and real estate	338	600	149	679	189	578
Management-related occupations	4,026	704	1,677	847	2,349	630
Accountants and auditors	1,362	723	549	891	813	651
Underwriters	119	744	39	(¹)	80	653
Other financial officers	684	758	324	923	360	615
Management analysts	244	908	126	1,080	118	790
Personnel, training, and labor relations specialists	475	674	149	727	326	653
Buyers, wholesale and retail trade, except farm products	140	643	75	675	65	588
Construction inspectors	67	730	63	748	4	(¹)
Inspectors and compliance officers, except construction	234	755	161	772	73	707
Professional specialty	15,731	800	7,556	939	8,175	707
Engineers, architects, and surveyors	2,084	1,033	1,865	1,052	219	907
Architects	129	918	108	983	21	(¹)
Engineers	1,945	1,041	1,749	1,058	197	933
Aerospace engineers	84	1,201	74	1,202	10	(¹)
Chemical engineers	75	1,260	62	1,312	13	(¹)
Civil engineers	255	965	229	984	25	(¹)
Electrical and electronic engineers	618	1,073	564	1,087	55	956
Industrial engineers	259	970	216	991	43	(¹)
Mechanical engineers	324	1,035	304	1,041	19	(¹)
Mathematical and computer scientists	1,638	983	1,117	1,056	522	876
Computer systems analysts and scientists	1,348	1,008	959	1,079	390	907
Operations and systems researchers and analysts	242	864	128	952	115	781
Natural scientists	514	873	370	939	143	731
Chemists, except biochemists	131	970	100	1,002	31	(¹)
Physical scientists, n.e.c.	50	987	38	(¹)	12	(¹)
Biological and life scientists	95	762	52	801	42	(¹)
Medical scientists	93	724	54	800	38	(¹)
Health diagnosing occupations	539	1,192	389	1,342	150	888
Physicians	460	1,266	335	1,364	125	852
Health assessment and treating occupations	2,219	760	368	887	1,851	746
Registered nurses	1,585	750	141	791	1,443	747
Pharmacists	165	1,159	88	1,222	77	1,105
Dietitians	55	577	8	(¹)	47	(¹)
Therapists	356	728	101	793	256	707
Respiratory therapists	69	689	31	(¹)	38	(¹)
Physical therapists	86	877	28	(¹)	58	808
Speech therapists	65	780	5	(¹)	61	770
Physicians' assistants	58	908	29	(¹)	29	(¹)
Teachers, college and university	638	953	397	1,038	241	859
Teachers, except college and university	4,259	688	1,130	768	3,129	659
Teachers, prekindergarten and kindergarten	432	440	9	(¹)	423	442
Teachers, elementary school	1,837	710	308	785	1,529	697
Teachers, secondary school	1,179	756	521	803	658	722
Teachers, special education	326	677	53	744	273	664
Counselors, educational and vocational	207	786	62	902	144	742
Librarians, archivists, and curators	210	701	39	(¹)	171	684
Librarians	183	700	32	(¹)	151	684
Social scientists and urban planners	306	740	142	847	164	682
Economists	120	863	57	977	63	774

See footnotes at end of table.

**HOUSEHOLD DATA
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39. Median weekly earnings of full-time wage and salary workers by detailed occupation and sex — Continued

(Numbers in thousands)

Occupation	1999					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Psychologists	141	673	55	760	86	623
Social, recreation, and religious workers	1,177	596	542	654	634	557
Social workers	705	601	220	661	485	579
Recreation workers	85	416	27	(¹)	58	417
Clergy	295	657	256	676	38	(¹)
Lawyers and judges	613	1,198	412	1,369	201	971
Lawyers	577	1,168	386	1,340	191	974
Writers, artists, entertainers, and athletes	1,327	681	722	748	604	605
Technical writers	63	861	25	(¹)	38	(¹)
Designers	453	642	233	757	220	512
Actors and directors	65	784	45	(¹)	20	(¹)
Painters, sculptors, craft artists, and artist printmakers	93	595	52	647	41	(¹)
Photographers	56	617	47	(¹)	9	(¹)
Editors and reporters	212	750	113	803	98	709
Public relations specialists	155	735	58	881	97	684
Athletes	54	613	46	(¹)	8	(¹)
Technical, sales, and administrative support	27,388	488	10,525	626	16,863	431
Technicians and related support	3,550	618	1,802	728	1,749	528
Health technologists and technicians	1,304	511	292	594	1,011	489
Clinical laboratory technologists and technicians	292	623	77	709	215	593
Radiologic technicians	139	619	40	(¹)	99	596
Licensed practical nurses	259	498	16	(¹)	243	492
Engineering and related technologists and technicians	874	662	716	673	158	625
Electrical and electronic technicians	412	690	348	701	64	649
Drafting occupations	212	665	177	663	35	(¹)
Surveying and mapping technicians	51	557	44	(¹)	7	(¹)
Science technicians	250	582	150	656	100	480
Biological technicians	86	500	36	(¹)	50	388
Chemical technicians	71	677	46	(¹)	25	(¹)
Technicians, except health, engineering, and science	1,122	761	643	902	479	624
Airplane pilots and navigators	99	1,048	97	1,050	3	(¹)
Computer programmers	564	898	405	935	159	788
Legal assistants	313	589	43	(¹)	270	581
Sales occupations	9,728	523	5,402	666	4,326	399
Supervisors and proprietors	3,275	587	1,924	691	1,351	454
Sales representatives, finance and business services	1,817	708	1,019	821	798	589
Insurance sales	391	622	201	750	190	539
Real estate sales	364	657	173	767	191	585
Securities and financial services sales	399	791	276	979	123	616
Advertising and related sales	155	747	66	892	88	626
Sales occupations, other business services	508	721	302	809	206	611
Sales representatives, commodities, except retail	1,279	749	968	792	311	610
Sales workers, retail and personal services	3,324	329	1,475	423	1,849	296
Sales workers, motor vehicles and boats	268	665	240	679	29	(¹)
Sales workers, apparel	148	298	43	(¹)	104	286
Sales workers, shoes	57	302	33	(¹)	24	(¹)
Sales workers, furniture and home furnishings	118	511	62	536	57	497
Sales workers, radio, television, hi-fi, and appliances	213	495	157	512	56	413
Sales workers, hardware and building supplies	204	426	163	473	41	(¹)
Sales workers, parts	146	400	132	403	15	(¹)
Sales workers, other commodities	645	333	249	392	396	315
Sales counter clerks	94	335	34	(¹)	60	303
Cashiers	1,289	280	301	296	989	275
Street and door-to-door sales workers	117	431	47	(¹)	70	387
Administrative support, including clerical	14,109	447	3,322	539	10,788	427
Supervisors	650	603	282	701	368	560
General office	348	595	115	706	233	539
Financial records processing	77	678	15	(¹)	62	622
Distribution, scheduling, and adjusting clerks	207	590	140	668	67	511
Computer equipment operators	298	525	128	610	170	485
Computer operators	292	528	124	612	168	485
Secretaries, stenographers, and typists	2,629	446	47	(¹)	2,582	446

See footnotes at end of table.

39. Median weekly earnings of full-time wage and salary workers by detailed occupation and sex — Continued

(Numbers in thousands)

Occupation	1999					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Secretaries	2,162	443	26	(1)	2,136	443
Stenographers	67	490	4	(1)	63	488
Typists	400	454	17	(1)	382	455
Information clerks	1,467	393	182	497	1,285	386
Interviewers	120	408	17	(1)	103	396
Hotel clerks	89	315	22	(1)	67	308
Transportation ticket and reservation agents	218	486	70	527	147	464
Receptionists	727	374	30	(1)	697	373
Records processing, except financial	753	440	171	513	582	421
Order clerks	249	493	70	629	179	460
Personnel clerks, except payroll and timekeeping	58	523	10	(1)	49	(1)
Library clerks	58	434	15	(1)	43	(1)
File clerks	206	361	43	(1)	162	349
Records clerks	174	437	32	(1)	142	423
Financial records processing	1,480	440	157	489	1,322	435
Bookkeepers, accounting, and auditing clerks	1,084	443	107	478	977	440
Payroll and timekeeping clerks	127	474	16	(1)	111	459
Billing clerks	145	428	14	(1)	131	428
Billing, posting, and calculating machine operators	74	404	10	(1)	63	400
Communications equipment operators	117	384	29	(1)	88	367
Telephone operators	107	377	24	(1)	83	365
Mail and message distributing	829	629	504	665	325	575
Postal clerks, except mail carriers	298	687	156	701	142	670
Mail carriers, postal service	301	697	218	714	82	646
Mail clerks, except postal service	135	389	50	414	85	382
Messengers	96	453	80	457	16	(1)
Material recording, scheduling, and distributing clerks	1,652	448	953	485	700	417
Dispatchers	232	487	107	583	125	441
Production coordinators	181	592	71	734	109	474
Traffic, shipping, and receiving clerks	572	411	409	419	163	388
Stock and inventory clerks	398	470	242	505	156	438
Expeditors	191	393	65	487	126	364
Adjusters and investigators	1,596	473	400	536	1,196	453
Insurance adjusters, examiners, and investigators	416	528	112	660	304	501
Investigators and adjusters, except insurance	925	452	219	511	706	435
Eligibility clerks, social welfare	98	481	13	(1)	85	468
Bill and account collectors	157	451	56	489	101	429
Miscellaneous administrative support occupations	2,593	409	448	483	2,145	399
General office clerks	511	419	98	461	412	413
Bank tellers	288	346	21	(1)	267	343
Data-entry keyers	594	422	110	433	484	420
Statistical clerks	80	432	17	(1)	63	401
Teachers' aides	368	315	28	(1)	341	314
Service occupations	10,841	336	5,209	402	5,632	304
Private household	384	243	17	(1)	367	240
Child care workers	157	211	1	(1)	156	212
Cleaners and servants	220	259	15	(1)	205	255
Protective services	2,138	592	1,791	613	347	492
Supervisors	180	759	156	815	23	(1)
Police and detectives	100	817	84	889	16	(1)
Firefighting and fire prevention	221	740	216	742	5	(1)
Firefighting	204	744	202	745	3	(1)
Police and detectives	1,079	657	898	681	181	574
Police and detectives, public service	602	751	519	766	83	650
Sheriffs, bailiffs, and other law enforcement officers	179	628	153	645	27	(1)
Correctional institution officers	298	521	226	540	72	492
Guards	659	393	521	402	138	335
Guards and police, except public service	618	398	501	403	118	368
Service occupations, except private household and protective	8,318	313	3,400	336	4,918	302
Food preparation and service occupations	3,189	298	1,583	311	1,607	286

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

39. Median weekly earnings of full-time wage and salary workers by detailed occupation and sex — Continued

(Numbers in thousands)

Occupation	1999					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Supervisors	276	342	120	415	156	310
Bartenders	167	334	97	334	70	334
Waiters and waitresses	652	302	172	325	480	294
Cooks, except short order	1,311	302	800	317	511	279
Food counter, fountain, and related occupations	108	252	46	(¹)	62	247
Kitchen workers, food preparation	135	297	41	(¹)	94	295
Waiters' and waitresses' assistants	229	286	119	290	110	282
Miscellaneous food preparation occupations	312	268	188	266	124	270
Health service occupations	1,791	324	217	368	1,574	320
Dental assistants	127	377	5	(¹)	123	373
Health aides, except nursing	246	318	49	(¹)	196	317
Nursing aides, orderlies, and attendants	1,418	322	163	367	1,255	318
Cleaning and building service occupations	2,188	321	1,303	363	885	292
Supervisors	153	407	97	472	55	317
Maids and housemen	472	296	87	330	385	289
Janitors and cleaners	1,496	324	1,054	351	442	293
Pest control	59	450	56	450	2	(¹)
Personal service occupations	1,150	321	298	379	852	310
Supervisors	56	470	24	(¹)	32	(¹)
Hairdressers and cosmetologists	310	322	47	(¹)	263	323
Attendants, amusement and recreation facilities	140	384	83	384	57	384
Public transportation attendants	58	604	11	(¹)	47	(¹)
Welfare service aides	54	310	6	(¹)	49	(¹)
Early childhood teachers' assistants	266	275	10	(¹)	256	274
Precision production, craft, and repair	11,927	594	10,861	606	1,066	428
Mechanics and repairers	4,263	621	4,057	622	206	592
Supervisors	262	816	232	820	30	(¹)
Mechanics and repairers, except supervisors	4,001	613	3,824	615	176	555
Vehicle and mobile equipment mechanics and repairers	1,455	594	1,436	594	18	(¹)
Automobile mechanics	635	555	628	555	7	(¹)
Bus, truck, and stationary engine mechanics	301	588	300	588	1	(¹)
Aircraft engine mechanics	146	737	142	740	4	(¹)
Small engine repairers	54	420	53	419	2	(¹)
Automobile body and related repairers	123	584	121	586	1	(¹)
Heavy equipment mechanics	145	667	144	669	1	(¹)
Industrial machinery repairers	546	608	530	612	16	(¹)
Electrical and electronic equipment repairers	889	698	785	703	104	616
Electronic repairers, communications and industrial equipment	201	621	184	630	17	(¹)
Data processing equipment repairers	281	689	233	707	48	(¹)
Telephone line installers and repairers	55	755	51	760	3	(¹)
Telephone installers and repairers	240	770	210	761	30	(¹)
Miscellaneous electrical and electronic equipment repairers	74	693	70	694	4	(¹)
Heating, air conditioning, and refrigeration mechanics	310	580	308	579	2	(¹)
Miscellaneous mechanics and repairers	790	607	754	612	36	(¹)
Millwrights	72	697	70	700	2	(¹)
Construction trades	4,143	566	4,059	571	85	423
Supervisors	504	720	495	722	9	(¹)
Construction trades, except supervisors	3,639	540	3,563	545	76	417
Brickmasons and stonemasons	128	546	125	564	3	(¹)
Tile setters, hard and soft	58	440	56	443	2	(¹)
Carpet installers	62	507	62	507	-	-
Carpenters	962	518	950	518	12	(¹)
Drywall installers	126	483	121	486	5	(¹)
Electricians	739	645	723	651	17	(¹)
Electrical power installers and repairers	134	731	133	730	1	(¹)
Painters, construction and maintenance	331	427	317	432	14	(¹)
Plumbers, pipefitters, steamfitters, and apprentices	417	595	408	596	9	(¹)
Concrete and terrazzo finishers	87	501	85	501	2	(¹)
Insulation workers	51	546	49	(¹)	2	(¹)
Roofers	147	467	146	469	1	(¹)
Structural metalworkers	55	634	55	634	-	-
Extractive occupations	128	716	126	717	2	(¹)
Precision production occupations	3,393	583	2,619	630	774	403
Supervisors	1,121	668	904	704	217	515

See footnotes at end of table.

39. Median weekly earnings of full-time wage and salary workers by detailed occupation and sex — Continued

(Numbers in thousands)

Occupation	1999					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Precision metalworking occupations	869	634	809	646	60	442
Tool and die makers	139	785	134	792	5	(1)
Machinists	489	604	461	610	28	(1)
Sheet-metal workers	128	628	120	635	8	(1)
Precision woodworking occupations	75	457	65	481	11	(1)
Cabinet makers and bench carpenters	58	454	54	465	4	(1)
Precision textile, apparel, and furnishings machine workers	115	402	65	421	50	350
Precision workers, assorted materials	460	423	203	513	257	369
Optical goods workers	64	465	26	(1)	38	(1)
Electrical and electronic equipment assemblers	290	391	97	476	193	359
Precision food production occupations	380	400	242	440	138	342
Butchers and meat cutters	237	400	174	428	64	322
Bakers	110	394	61	475	49	(1)
Precision inspectors, testers, and related workers	131	618	100	657	32	(1)
Inspectors, testers, and graders	123	619	94	654	30	(1)
Plant and system operators	241	688	233	689	9	(1)
Water and sewage treatment plant operators	56	625	53	635	4	(1)
Stationary engineers	109	621	109	620	-	-
Operators, fabricators, and laborers	15,182	429	11,685	472	3,498	337
Machine operators, assemblers, and inspectors	6,814	423	4,371	487	2,444	340
Machine operators and tenders, except precision	4,368	416	2,829	481	1,538	326
Metalworking and plastic working machine operators	369	509	307	534	62	410
Punching and stamping press machine operators	101	458	74	505	27	(1)
Grinding, abrading, buffing, and polishing machine operators	113	490	97	507	16	(1)
Metal and plastic processing machine operators	142	454	110	471	32	(1)
Molding and casting machine operators	97	452	74	473	23	(1)
Woodworking machine operators	138	385	119	398	19	(1)
Sawing machine operators	81	386	71	393	10	(1)
Printing machine operators	325	491	251	526	74	366
Printing press operators	256	477	208	513	48	(1)
Textile, apparel, and furnishings machine operators	745	298	211	348	534	282
Textile sewing machine operators	416	282	94	326	322	273
Pressing machine operators	67	268	17	(1)	50	260
Laundering and dry cleaning machine operators	139	294	48	(1)	90	266
Machine operators, assorted materials	2,622	437	1,813	487	809	350
Packaging and filling machine operators	341	361	129	416	212	327
Mixing and blending machine operators	129	491	112	497	16	(1)
Separating, filtering, and clarifying machine operators	58	648	50	657	8	(1)
Painting and paint spraying machine operators	186	462	161	480	25	(1)
Furnace, kiln, and oven operators, exc. food	69	591	67	597	2	(1)
Slicing and cutting machine operators	153	430	115	473	38	(1)
Photographic process machine operators	69	342	34	(1)	35	(1)
Fabricators, assemblers, and hand working occupations	1,781	444	1,192	495	589	365
Welders and cutters	527	520	496	525	32	(1)
Assemblers	1,158	412	637	463	521	368
Production inspectors, testers, samplers, and weighers	665	424	349	506	316	369
Production inspectors, checkers, and examiners	487	456	256	530	231	395
Production testers	53	520	39	(1)	14	(1)
Graders and sorters, except agricultural	120	305	52	347	69	288
Transportation and material moving occupations	4,401	513	4,083	522	317	394
Motor vehicle operators	3,184	514	2,927	524	257	389
Supervisors	78	585	61	621	17	(1)
Truck drivers	2,493	527	2,409	532	85	412
Drivers--sales workers	130	534	122	555	8	(1)
Bus drivers	284	428	166	498	119	384
Taxicab drivers and chauffeurs	149	427	127	441	22	(1)
Transportation occupations, except motor vehicles	154	761	152	772	2	(1)
Rail transportation	108	816	107	820	1	(1)
Material moving equipment operators	1,063	498	1,005	503	58	415

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

39. Median weekly earnings of full-time wage and salary workers by detailed occupation and sex — Continued

(Numbers in thousands)

Occupation	1999					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Operating engineers	229	575	223	579	6	(1)
Crane and tower operators	69	580	67	586	2	(1)
Excavating and loading machine operators	81	571	79	577	2	(1)
Grader, dozer, and scraper operators	63	480	61	477	2	(1)
Industrial truck and tractor equipment operators	513	448	474	451	39	(1)
Handlers, equipment cleaners, helpers, and laborers	3,967	363	3,230	377	737	314
Helpers, construction and extractive occupations	106	329	103	330	3	(1)
Helpers, construction trades	93	336	92	335	2	(1)
Construction laborers	804	414	776	413	28	(1)
Production helpers	53	357	42	(1)	11	(1)
Freight, stock, and material handlers	1,287	361	996	375	291	318
Stock handlers and baggers	578	314	389	320	189	300
Machine feeders and offbearers	75	395	45	(1)	30	(1)
Garage and service station related occupations	134	314	131	313	3	(1)
Vehicle washers and equipment cleaners	199	312	173	315	26	(1)
Hand packers and packagers	253	317	107	338	147	305
Laborers, except construction	1,107	373	879	393	229	315
Farming, forestry, and fishing	1,583	331	1,364	341	218	283
Farm operators and managers	72	499	61	525	11	(1)
Farm managers	67	499	56	543	11	(1)
Other agricultural and related occupations	1,441	321	1,237	329	204	277
Farm occupations, except managerial	603	311	512	317	91	268
Farm workers	531	304	463	311	68	259
Related agricultural occupations	838	330	725	342	113	288
Supervisors, related agricultural	87	514	81	539	6	(1)
Groundskeepers and gardeners, except farm	657	322	614	322	44	(1)
Forestry and logging occupations	58	503	55	508	2	(1)

¹ Data not shown where base is less than 50,000.

used in the household survey.

NOTE: Beginning in January 1999, data reflect revised population controls

40. Union affiliation of employed wage and salary workers by selected characteristics

(Numbers in thousands)

Characteristic	1998						1999			
	Total em- ployed	Members of unions ¹		Represented by unions ²		Total em- ployed	Members of unions ¹		Represented by unions ²	
		Total	Percent of em- ployed	Total	Percent of em- ployed		Total	Percent of em- ployed	Total	Percent of em- ployed
SEX AND AGE										
Total, 16 years and over	116,730	16,211	13.9	17,918	15.4	118,963	16,477	13.9	18,182	15.3
16 to 24 years	19,164	1,014	5.3	1,151	6.0	19,606	1,110	5.7	1,239	6.3
25 years and over	97,566	15,198	15.6	16,767	17.2	99,358	15,367	15.5	16,943	17.1
25 to 34 years	29,121	3,332	11.4	3,711	12.7	28,657	3,415	11.9	3,785	13.2
35 to 44 years	31,865	5,013	15.7	5,511	17.3	32,438	4,918	15.2	5,428	16.7
45 to 54 years	23,579	4,737	20.1	5,220	22.1	24,665	4,881	19.8	5,377	21.8
55 to 64 years	10,427	1,923	18.4	2,110	20.2	10,880	1,932	17.8	2,107	19.4
65 years and over	2,574	193	7.5	214	8.3	2,718	221	8.1	247	9.1
Men, 16 years and over	60,973	9,850	16.2	10,638	17.4	61,914	9,949	16.1	10,758	17.4
16 to 24 years	9,927	637	6.4	719	7.2	10,116	716	7.1	781	7.7
25 years and over	51,046	9,213	18.0	9,919	19.4	51,797	9,232	17.8	9,977	19.3
25 to 34 years	15,656	2,112	13.5	2,301	14.7	15,330	2,142	14.0	2,325	15.2
35 to 44 years	16,768	3,055	18.2	3,264	19.5	17,020	2,993	17.6	3,241	19.0
45 to 54 years	11,874	2,771	23.3	2,982	25.1	12,395	2,800	22.6	3,026	24.4
55 to 64 years	5,404	1,177	21.8	1,265	23.4	5,622	1,186	21.1	1,267	22.5
65 years and over	1,343	98	7.3	108	8.0	1,431	111	7.7	118	8.2
Women, 16 years and over	55,757	6,362	11.4	7,280	13.1	57,050	6,528	11.4	7,425	13.0
16 to 24 years	9,237	377	4.1	432	4.7	9,489	393	4.1	458	4.8
25 years and over	46,520	5,985	12.9	6,848	14.7	47,560	6,135	12.9	6,966	14.6
25 to 34 years	13,464	1,219	9.1	1,410	10.5	13,327	1,273	9.6	1,460	11.0
35 to 44 years	15,097	1,958	13.0	2,248	14.9	15,418	1,924	12.5	2,187	14.2
45 to 54 years	11,705	1,967	16.8	2,238	19.1	12,270	2,081	17.0	2,351	19.2
55 to 64 years	5,023	746	14.9	845	16.8	5,258	746	14.2	839	16.0
65 years and over	1,231	95	7.7	106	8.6	1,287	110	8.5	129	10.0
RACE, HISPANIC ORIGIN, AND SEX										
White, 16 years and over	97,531	13,118	13.5	14,460	14.8	99,147	13,349	13.5	14,668	14.8
Men	51,700	8,166	15.8	8,788	17.0	52,492	8,246	15.7	8,896	16.9
Women	45,831	4,952	10.8	5,673	12.4	46,655	5,103	10.9	5,771	12.4
Black, 16 years and over	13,894	2,460	17.7	2,739	19.7	14,346	2,463	17.2	2,757	19.2
Men	6,452	1,337	20.7	1,458	22.6	6,585	1,348	20.5	1,464	22.2
Women	7,443	1,123	15.1	1,282	17.2	7,760	1,116	14.4	1,293	16.7
Hispanic origin, 16 years and over	12,374	1,471	11.9	1,634	13.2	12,810	1,525	11.9	1,684	13.1
Men	7,360	937	12.7	1,017	13.8	7,457	966	13.0	1,052	14.1
Women	5,015	534	10.6	617	12.3	5,353	559	10.4	632	11.8
FULL- OR PART-TIME STATUS ³										
Full-time workers	95,595	14,825	15.5	16,323	17.1	97,626	14,974	15.3	16,501	16.9
Part-time workers	20,862	1,354	6.5	1,559	7.5	21,065	1,459	6.9	1,634	7.8

¹ Data refer to members of a labor union or an employee association similar to a union.

² Data refer to members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but whose jobs are covered by a union or an employee association contract.

³ The distinction between full- and part-time workers is based on hours usually worked. Beginning in 1994, these data will not sum to totals because full- or part-time status on the principal job is not identifiable for a small

number of multiple jobholders.

NOTE: Data refer to the sole or principal job of full- and part-time workers. Excluded are all self-employed workers regardless of whether or not their businesses are incorporated. 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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

41. Median weekly earnings of full-time wage and salary workers by union affiliation and selected characteristics

Characteristic	1998				1999			
	Total	Members of unions ¹	Repre- sented by unions ²	Non- union	Total	Members of unions ¹	Repre- sented by unions ²	Non- union
SEX AND AGE								
Total, 16 years and over	\$523	\$659	\$653	\$499	\$549	\$672	\$667	\$516
16 to 24 years	319	415	410	315	341	437	433	335
25 years and over	572	673	667	537	592	688	683	569
25 to 34 years	502	595	591	489	518	604	601	506
35 to 44 years	597	683	678	576	611	691	687	594
45 to 54 years	620	716	712	592	652	750	745	617
55 to 64 years	592	697	692	560	604	696	697	582
65 years and over	405	610	597	383	404	616	623	381
Men, 16 years and over	598	699	696	573	618	711	708	599
16 to 24 years	334	430	424	326	356	449	443	348
25 years and over	639	712	709	617	668	727	726	648
25 to 34 years	544	618	615	524	577	627	623	560
35 to 44 years	677	722	719	660	702	735	734	691
45 to 54 years	732	755	755	719	763	789	787	751
55 to 64 years	699	738	737	674	725	735	737	718
65 years and over	482	657	659	445	470	666	665	421
Women, 16 years and over	456	596	593	430	473	608	606	449
16 to 24 years	305	389	382	301	324	418	416	321
25 years and over	485	605	602	463	497	618	616	477
25 to 34 years	451	542	542	439	470	557	555	457
35 to 44 years	498	605	605	479	503	612	611	486
45 to 54 years	516	651	645	488	534	686	679	502
55 to 64 years	476	602	596	448	492	623	621	467
65 years and over	350	(³)	522	329	370	567	596	329
RACE, HISPANIC ORIGIN, AND SEX								
White, 16 years and over	545	\$683	678	513	573	692	689	534
Men	615	719	716	591	638	731	730	615
Women	468	610	607	443	483	619	618	461
Black, 16 years and over	426	578	572	398	445	575	575	415
Men	468	597	592	424	488	588	589	459
Women	400	537	533	376	409	548	545	388
Hispanic origin, 16 years and over	370	540	541	350	385	561	559	363
Men	390	585	584	367	406	604	597	384
Women	337	478	481	322	348	490	490	329

¹ Data refer to members of a labor union or an employee association similar to a union.

² Data refer to members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but whose jobs are covered by a union or an employee association contract.

³ Data not shown where base is less than 50,000.

NOTE: Data refer to the sole or principal job of full-time workers. Excluded

are all self-employed workers regardless of whether or not their businesses are incorporated. 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. Beginning in January 1999, data reflect revised population controls used in the household survey.

42. Union affiliation of employed wage and salary workers by occupation and industry

(Numbers in thousands)

Occupation and industry	1998					1999				
	Total em- ployed	Members of unions ¹		Represented by unions ²		Total em- ployed	Members of unions ¹		Represented by unions ²	
		Total	Percent of em- ployed	Total	Percent of em- ployed		Total	Percent of em- ployed	Total	Percent of em- ployed
OCCUPATION										
Managerial and professional specialty	33,102	4,252	12.8	5,015	15.2	34,693	4,594	13.2	5,352	15.4
Executive, administrative, and managerial	15,473	812	5.2	1,017	6.6	16,000	903	5.6	1,138	7.1
Professional specialty	17,629	3,440	19.5	3,998	22.7	18,693	3,691	19.7	4,215	22.5
Technical, sales, and administrative support	35,379	3,239	9.2	3,677	10.4	35,514	3,191	9.0	3,609	10.2
Technicians and related support	4,150	433	10.4	498	12.0	4,188	461	11.0	523	12.5
Sales occupations	13,378	544	4.1	620	4.6	13,451	549	4.1	613	4.6
Administrative support, including clerical	17,851	2,262	12.7	2,558	14.3	17,874	2,182	12.2	2,474	13.8
Service occupations	16,594	2,209	13.3	2,398	14.5	16,829	2,151	12.8	2,336	13.9
Protective service	2,399	991	41.3	1,048	43.7	2,427	927	38.2	991	40.8
Service, except protective service	14,195	1,218	8.6	1,350	9.5	14,403	1,224	8.5	1,346	9.3
Precision production, craft, and repair	12,274	2,708	22.1	2,834	23.1	12,474	2,800	22.4	2,929	23.5
Operators, fabricators, and laborers	17,443	3,713	21.3	3,894	22.3	17,514	3,627	20.7	3,830	21.9
Machine operators, assemblers, and inspectors	7,498	1,603	21.4	1,672	22.3	7,255	1,490	20.5	1,572	21.7
Transportation and material moving occupations	4,935	1,204	24.4	1,267	25.7	5,041	1,148	22.8	1,216	24.1
Handlers, equipment cleaners, helpers, and laborers	5,010	906	18.1	956	19.1	5,218	989	18.9	1,042	20.0
Farming, forestry, and fishing	1,938	90	4.6	100	5.2	1,940	113	5.8	125	6.4
INDUSTRY										
Private wage and salary workers	98,329	9,306	9.5	10,104	10.3	100,025	9,419	9.4	10,216	10.2
Agriculture	1,739	26	1.5	31	1.8	1,721	43	2.5	48	2.8
Nonagricultural industries	96,590	9,280	9.6	10,073	10.4	98,304	9,376	9.5	10,168	10.3
Mining	589	72	12.2	79	13.4	531	57	10.6	60	11.4
Construction	5,946	1,056	17.8	1,093	18.4	6,230	1,187	19.1	1,224	19.6
Manufacturing	19,763	3,127	15.8	3,315	16.8	19,323	3,024	15.6	3,209	16.6
Durable goods	11,999	1,990	16.6	2,097	17.5	11,824	1,941	16.4	2,063	17.5
Nondurable goods	7,763	1,138	14.7	1,218	15.7	7,499	1,083	14.4	1,146	15.3
Transportation and public utilities	7,147	1,843	25.8	1,931	27.0	7,317	1,865	25.5	1,956	26.7
Transportation	4,316	1,108	25.7	1,156	26.8	4,450	1,136	25.5	1,186	26.7
Communications and public utilities	2,831	735	26.0	775	27.4	2,866	729	25.4	770	26.9
Wholesale and retail trade	24,230	1,283	5.3	1,387	5.7	24,671	1,278	5.2	1,406	5.7
Wholesale trade	4,425	259	5.9	275	6.2	4,573	248	5.4	281	6.1
Retail trade	19,805	1,024	5.2	1,113	5.6	20,098	1,030	5.1	1,126	5.6
Finance, insurance, and real estate	7,420	150	2.0	195	2.6	7,588	156	2.1	191	2.5
Services	31,493	1,750	5.6	2,073	6.6	32,645	1,809	5.5	2,121	6.5
Government workers	18,401	6,905	37.5	7,815	42.5	18,938	7,058	37.3	7,966	42.1
Federal	3,269	1,105	33.8	1,299	39.7	3,264	1,047	32.1	1,275	39.0
State	5,150	1,431	27.8	1,667	32.4	5,233	1,527	29.2	1,781	34.0
Local	9,982	4,370	43.8	4,849	48.6	10,440	4,484	42.9	4,911	47.0

¹ Data refer to members of a labor union or an employee association similar to a union.² Data refer to members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but whose jobs are covered by a union or an employee association contract.

NOTE: Data refer to the sole or principal job of full- and part-time workers. Excluded are all self-employed workers regardless of whether or not their businesses are incorporated. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

43. Median weekly earnings of full-time wage and salary workers by union affiliation, occupation, and industry

Occupation and industry	1998				1999			
	Total	Members of unions ¹	Repre- sented by unions ²	Non- union	Total	Members of unions ¹	Repre- sented by unions ²	Non- union
OCCUPATION								
Managerial and professional specialty	\$759	\$789	\$774	\$756	\$797	\$826	\$819	\$792
Executive, administrative, and managerial	755	801	789	753	792	823	829	789
Professional specialty	763	787	772	759	800	826	817	794
Technical, sales, and administrative support	477	575	569	463	488	583	580	477
Technicians and related support	599	708	688	590	618	714	711	608
Sales occupations	502	496	492	502	523	513	519	523
Administrative support, including clerical	438	563	558	418	447	574	564	429
Service occupations	327	557	542	305	336	536	529	314
Protective service	598	736	732	450	592	737	728	477
Service, except protective service	305	403	402	295	311	412	409	303
Precision production, craft, and repair	572	753	747	514	594	755	747	546
Operators, fabricators, and laborers	415	585	580	381	429	591	584	398
Machine operators, assemblers, and inspectors	406	559	556	375	423	572	566	394
Transportation and material moving occupations ...	510	655	644	468	513	668	657	478
Handlers, equipment cleaners, helpers, and laborers	351	514	514	326	363	507	499	340
Farming, forestry, and fishing	302	471	462	299	331	512	514	322
INDUSTRY								
Private wage and salary workers	505	625	619	493	521	633	627	510
Agriculture	315	(³)	(³)	314	340	(³)	(³)	337
Nonagricultural industries	509	\$626	\$620	496	525	\$634	\$628	513
Mining	684	733	723	673	734	710	731	735
Construction	534	790	783	496	552	778	772	509
Manufacturing	551	606	603	532	576	614	611	561
Durable goods	581	629	625	566	594	628	625	584
Nondurable goods	507	565	562	495	529	584	579	518
Transportation and public utilities	624	731	724	586	651	748	742	613
Transportation	570	704	695	519	596	727	718	551
Communications and public utilities	727	763	760	699	751	773	770	738
Wholesale and retail trade	410	480	476	405	421	499	492	418
Wholesale trade	562	611	604	557	573	584	570	573
Retail trade	373	442	439	369	391	472	463	387
Finance, insurance, and real estate	577	545	554	578	598	582	587	599
Services	498	540	548	494	517	554	563	515
Government workers	620	694	688	558	641	714	709	585
Federal	694	690	693	696	729	721	723	737
State	596	646	638	563	615	683	677	578
Local	612	712	702	501	623	726	720	525

¹ Data refer to members of a labor union or an employee association similar to a union.

² Data refer to members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but whose jobs are covered by a union or an employee association contract.

³ Data not shown where base is less than 50,000.

NOTE: Data refer to the sole or principal job of full-time workers. Excluded are all self-employed workers regardless of whether or not their businesses are incorporated. Beginning in January 1999, data reflect revised population controls used in the household survey.

Table 44. Wage and salary workers paid hourly rates with earnings at or below the prevailing Federal minimum wage by selected characteristics

(Numbers in thousands)

Characteristic	1999				
	Workers paid hourly rates				
	Total	Below prevailing Federal minimum wage	At prevailing Federal minimum wage	Total at or below prevailing Federal minimum wage	
Number				Percent of hourly-paid workers	
SEX AND AGE					
Total, 16 years and over	72,306	2,194	1,146	3,340	4.6
16 to 24 years	16,636	1,064	632	1,695	10.2
25 years and over	55,670	1,130	514	1,644	3.0
Men, 16 years and over	36,073	768	446	1,214	3.4
16 to 24 years	8,556	410	289	699	8.2
25 years and over	27,517	358	157	515	1.9
Women, 16 years and over	36,233	1,426	700	2,126	5.9
16 to 24 years	8,080	654	343	996	12.3
25 years and over	28,153	772	357	1,129	4.0
RACE, HISPANIC ORIGIN, AND SEX					
White, 16 years and over	58,999	1,803	895	2,698	4.6
Men	29,906	602	356	958	3.2
Women	29,093	1,200	539	1,740	6.0
Black, 16 years and over	10,126	298	217	516	5.1
Men	4,632	126	74	199	4.3
Women	5,494	173	144	316	5.8
Hispanic origin, 16 years and over	9,402	275	238	513	5.5
Men	5,490	126	105	232	4.2
Women	3,913	148	133	281	7.2
FULL- AND PART-TIME STATUS AND SEX ¹					
Full-time workers	54,931	948	372	1,320	2.4
Men	30,582	383	169	552	1.8
Women	24,349	565	203	768	3.2
Part-time workers	17,227	1,238	772	2,011	11.7
Men	5,410	383	276	659	12.2
Women	11,817	855	496	1,351	11.4

¹ The distinction between full- and part-time workers is based on hours usually worked. These data will not sum to totals because full- or part-time status on the principal job is not identifiable for a small number of multiple jobholders.

NOTE: The prevailing Federal minimum wage was \$5.15 per hour in 1999. Data are for wage and salary workers, excluding the incorporated self-employed. They refer to a person's earnings on their sole or principal job, and pertain only to workers who are paid hourly rates. Salaried workers and other nonhourly workers are not included. The

presence of workers with hourly earnings below the minimum wage does not necessarily indicate violations of the Fair Labor Standards Act, as there are exceptions to the minimum wage provisions of the law. In addition, some survey respondents might have rounded hourly earnings to the nearest dollar, and, as a result, reported hourly earnings below the minimum wage even though they earned the minimum wage or higher. 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
ANNUAL AVERAGES**

Table 45. Wage and salary workers paid hourly rates with earnings at or below the prevailing Federal minimum wage by occupation and industry

(Numbers in thousands)

Occupation and industry	1999				
	Workers paid hourly rates				
	Total	Below prevailing Federal minimum wage	At prevailing Federal minimum wage	Total at or below prevailing Federal minimum wage	
				Number	Percent of hourly-paid workers
OCCUPATION					
Managerial and professional specialty	10,078	91	37	129	1.3
Executive, administrative, and managerial	4,260	33	17	50	1.2
Professional specialty	5,818	58	21	79	1.4
Technical, sales, and administrative support	22,763	333	361	694	3.1
Technicians and related support	2,750	17	10	27	1.0
Sales occupations	7,445	186	231	417	5.6
Administrative support, including clerical	12,568	130	120	251	2.0
Service occupations	13,438	1,424	470	1,894	14.1
Private household	425	145	11	156	36.8
Protective service	1,574	19	14	33	2.1
Service, except private household and protective	11,440	1,260	445	1,705	14.9
Food service workers	5,451	1,047	253	1,299	23.8
Health service workers	2,213	52	40	92	4.2
Cleaning and building service workers	2,370	84	79	163	6.9
Personal service workers	1,406	77	73	150	10.7
Precision production, craft, and repair	9,781	51	14	64	.7
Operators, fabricators, and laborers	14,882	245	198	444	3.0
Machine operators, assemblers, and inspectors	6,577	75	57	132	2.0
Transportation and material moving occupations	3,567	44	27	71	2.0
Handlers, equipment cleaners, helpers, and laborers	4,737	126	115	241	5.1
Farming, forestry, and fishing	1,364	50	65	114	8.4
INDUSTRY					
Private wage and salary workers	63,557	2,080	1,028	3,109	4.9
Agriculture	1,156	36	54	90	7.8
Nonagriculture industries	62,401	2,045	974	3,019	4.8
Mining	322	4	2	6	1.9
Construction	4,687	42	10	52	1.1
Manufacturing	13,000	98	63	160	1.2
Durable goods	8,023	42	21	63	.8
Nondurable goods	4,976	55	42	97	2.0
Transportation and public utilities	4,122	30	22	53	1.3
Transportation	2,604	25	17	42	1.6
Communication and public utilities	1,518	5	5	11	.7
Wholesale and retail trade	17,859	1,276	540	1,817	10.2
Wholesale trade	2,396	29	15	44	1.9
Retail trade	15,463	1,247	525	1,772	11.5
Eating and drinking places	5,209	1,008	268	1,276	24.5
Finance, insurance, and real estate	3,001	38	8	47	1.6
Services	19,410	557	328	885	4.6
Private households	487	152	11	163	33.5
Other service industries	18,922	405	317	722	3.8
Personal services, except private households	1,860	106	47	153	8.2
Entertainment and recreation services	1,310	67	55	122	9.3
Government workers	8,749	113	117	231	2.6
Federal	1,829	13	9	22	1.2
State	2,124	25	50	75	3.5
Local	4,796	75	58	133	2.8

NOTE: The prevailing Federal minimum wage was \$5.15 per hour in 1999. Data are for wage and salary workers, excluding the incorporated self-employed. They refer to a person's earnings on their sole or principal job, and pertain only to workers who are paid hourly rates. Salaried workers and other nonhourly workers are not included. The presence of workers with hourly earnings below the minimum wage does not

necessarily indicate violations of the Fair Labor Standards Act, as there are exceptions to the minimum wage provisions of the law. In addition, some survey respondents might have rounded hourly earnings to the nearest dollar, and, as a result, reported hourly earnings below the minimum wage even though they earned the minimum wage or higher.

46. Absences from work of employed full-time wage and salary workers by age and sex

(Numbers in thousands)

Age and sex	1999						
	Total employed	Absence rate ¹			Lost worktime rate ²		
		Total	Illness or injury	Other reasons	Total	Illness or injury	Other reasons
Total, 16 years and over	97,740	3.8	2.8	1.0	2.0	1.5	0.6
16 to 19 years	2,256	4.0	3.0	1.0	1.8	1.3	.5
20 to 24 years	9,131	3.9	2.7	1.2	1.9	1.2	.7
25 years and over	86,353	3.8	2.8	1.0	2.0	1.5	.5
25 to 54 years	76,092	3.8	2.7	1.1	2.0	1.4	.6
55 years and over	10,261	4.2	3.5	.7	2.6	2.3	.3
Men, 16 years and over	55,161	2.8	2.2	.6	1.5	1.2	.3
16 to 19 years	1,352	3.1	2.4	.7	1.4	1.1	.3
20 to 24 years	5,112	2.6	2.1	.5	1.3	1.0	.2
25 years and over	48,696	2.8	2.3	.6	1.5	1.3	.3
25 to 54 years	42,882	2.7	2.1	.6	1.4	1.2	.3
55 years and over	5,814	3.6	3.1	.5	2.2	2.0	.2
Women, 16 years and over	42,579	5.1	3.5	1.6	2.7	1.8	1.0
16 to 19 years	904	5.4	3.9	1.4	2.4	1.6	.8
20 to 24 years	4,018	5.4	3.4	2.0	2.8	1.5	1.3
25 years and over	37,657	5.1	3.5	1.6	2.7	1.8	.9
25 to 54 years	33,210	5.1	3.4	1.7	2.7	1.7	1.0
55 years and over	4,447	5.1	4.1	.9	3.0	2.5	.4

¹ Absences are defined as instances when persons who usually work 35 or more hours a week worked less than 35 hours during the reference week for one of the following reasons: Own illness, injury, or medical problems; child-care problems; other family or personal obligations; civic or military duty; and maternity or paternity leave. Excluded are situations in which work was missed due to vacation or personal days, holiday, labor dispute, and other reasons. For multiple jobholders, absence data refer only to work missed at their main jobs. The absence rate is the ratio of

workers with absences to total full-time wage and salary employment. The estimates of full-time wage and salary employment shown in this table do not match those in other tables because the estimates in this table are based on the full CPS sample and those in the other tables are based on a quarter of the sample only.

² Hours absent as a percent of hours usually worked.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

47. Absences from work of employed full-time wage and salary workers by occupation and industry

(Numbers in thousands)

Occupation and industry	1999						
	Total employed	Absence rate ¹			Lost worktime rate ²		
		Total	Illness or injury	Other reasons	Total	Illness or injury	Other reasons
OCCUPATION							
Managerial and professional specialty	30,854	3.2	2.1	1.0	1.6	1.0	0.6
Executive, administrative, and managerial	15,121	2.9	2.0	.9	1.5	1.0	.5
Professional specialty	15,733	3.4	2.3	1.1	1.8	1.1	.7
Technical, sales, and administrative support	27,508	4.1	3.0	1.2	2.1	1.5	.6
Technicians and related support	3,576	4.3	3.3	1.0	2.2	1.7	.6
Sales occupations	9,793	3.0	2.1	1.0	1.6	1.1	.5
Administrative support, including clerical	14,139	4.8	3.5	1.3	2.4	1.7	.7
Service occupations	10,722	4.5	3.3	1.3	2.4	1.8	.6
Precision production, craft, and repair	11,952	3.6	2.9	.8	2.0	1.6	.4
Operators, fabricators, and laborers	15,105	4.4	3.5	.9	2.5	2.1	.5
Farming, forestry, and fishing	1,600	3.1	2.3	.8	1.6	1.3	.3
INDUSTRY							
Agricultural wage and salary workers	1,415	3.0	2.2	.8	1.7	1.4	.3
Private nonagricultural wage and salary workers	80,236	3.7	2.7	1.0	2.0	1.4	.6
Mining	523	3.3	2.4	.9	2.3	1.8	.6
Construction	5,832	3.5	2.6	.9	1.9	1.4	.4
Manufacturing	18,338	3.8	3.0	.9	2.1	1.7	.5
Durable goods	11,358	3.9	3.0	.9	2.2	1.7	.5
Nondurable goods	6,980	3.7	2.8	.9	2.0	1.6	.5
Transportation and public utilities	6,578	3.4	2.6	.7	2.0	1.7	.4
Transportation	3,861	3.5	2.8	.7	2.2	1.9	.4
Communications and other public utilities	2,717	3.2	2.5	.7	1.8	1.4	.4
Wholesale and retail trade	17,223	3.5	2.5	1.0	1.8	1.3	.5
Wholesale trade	4,198	3.0	2.2	.8	1.4	1.1	.3
Retail trade	13,025	3.6	2.6	1.1	1.9	1.4	.5
Finance, insurance, and real estate	6,721	3.6	2.4	1.1	1.8	1.1	.6
Services	25,021	4.0	2.8	1.2	2.1	1.3	.7
Government workers	16,089	4.4	3.3	1.1	2.3	1.7	.6

¹ Absences are defined as instances when persons who usually work 35 or more hours a week worked less than 35 hours during the reference week for one of the following reasons: Own illness, injury, or medical problems; child-care problems; other family or personal obligations; civic or military duty; and maternity or paternity leave. Excluded are situations in which work was missed due to vacation or personal days, holiday, labor dispute, and other reasons. For multiple jobholders, absence data refer only to work missed at their main jobs. The absence rate is the ratio of

workers with absences to total full-time wage and salary employment. The estimates of full-time wage and salary employment shown in this table do not match those in other tables because the estimates in this table are based on the full CPS sample and those in the other tables are based on a quarter of the sample only.

² Hours absent as a percent of hours usually worked.

NOTE: Beginning in January 1999, data reflect revised population controls used in the household survey.

48. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	1998	1999	Total		Employed		Unemployed			
			1998	1999	1998	1999	Number		Percent of labor force	
							1998	1999	1998	1999
VIETNAM-ERA VETERANS										
Total, 40 years and over	7,773	7,761	6,526	6,381	6,348	6,200	179	180	2.7	2.8
40 to 54 years	5,950	5,497	5,313	4,842	5,163	4,703	150	139	2.8	2.9
40 to 44 years	741	513	662	452	637	431	24	20	3.7	4.5
45 to 49 years	2,237	1,868	2,011	1,645	1,955	1,593	56	52	2.8	3.2
50 to 54 years	2,972	3,116	2,641	2,745	2,571	2,679	70	66	2.6	2.4
55 years and over	1,822	2,263	1,213	1,539	1,184	1,497	29	42	2.4	2.7
NONVETERANS										
Total, 40 to 54 years	20,304	21,289	18,403	19,291	17,879	18,784	523	507	2.8	2.6
40 to 44 years	9,218	9,426	8,512	8,716	8,269	8,482	242	234	2.8	2.7
45 to 49 years	6,796	7,323	6,190	6,655	6,020	6,484	170	171	2.7	2.6
50 to 54 years	4,290	4,540	3,701	3,920	3,590	3,818	111	101	3.0	2.6

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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

49. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
Total, 40 to 54 years												
Civilian noninstitutional population	5,272	4,862	552	510	251	239	17,134	17,966	2,136	2,237	2,085	2,143
Civilian labor force	4,741	4,334	463	407	219	209	15,748	16,509	1,719	1,810	1,850	1,889
Employed	4,614	4,219	444	388	215	206	15,346	16,115	1,628	1,726	1,763	1,806
Unemployed	127	115	20	19	4	3	403	394	91	84	87	83
Unemployment rate	2.7	2.6	4.2	4.7	1.9	1.3	2.6	2.4	5.3	4.6	4.7	4.4
40 to 44 years												
Civilian noninstitutional population	604	426	113	72	48	29	7,796	7,966	962	986	970	984
Civilian labor force	540	381	101	61	42	26	7,296	7,452	796	832	884	893
Employed	524	367	96	56	41	26	7,114	7,271	747	791	843	860
Unemployed	17	14	5	5	1	-	182	181	48	41	42	33
Unemployment rate	3.1	3.8	5.0	8.4	2.7	.4	2.5	2.4	6.1	4.9	4.7	3.7
45 to 49 years												
Civilian noninstitutional population	1,951	1,629	237	192	87	75	5,749	6,189	718	781	674	667
Civilian labor force	1,767	1,453	201	154	74	66	5,301	5,709	590	634	596	591
Employed	1,722	1,410	190	146	72	64	5,166	5,577	563	603	571	561
Unemployed	45	43	11	8	1	2	135	132	27	31	24	29
Unemployment rate	2.5	2.9	5.4	4.9	1.9	2.6	2.5	2.3	4.5	4.9	4.1	5.0
50 to 54 years												
Civilian noninstitutional population	2,718	2,807	201	246	116	135	3,589	3,811	456	469	441	493
Civilian labor force	2,433	2,500	162	193	103	118	3,152	3,348	333	344	370	406
Employed	2,368	2,442	158	186	102	117	3,066	3,267	317	332	349	385
Unemployed	65	58	4	7	2	1	86	81	16	12	20	20
Unemployment rate	2.7	2.3	2.4	3.5	1.6	.8	2.7	2.4	4.8	3.5	5.5	5.0

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. 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. Beginning in January 1999, data reflect revised population controls used in the household survey.

**ESTABLISHMENT DATA
EMPLOYMENT
ANNUAL AVERAGES**

50. Employees on nonfarm payrolls by major industry and selected component groups

(In thousands)

Industry	1996	1997	1998	1999P
Total	119,608	122,690	125,826	128,610
Total private	100,189	103,133	106,007	108,450
Goods-producing	24,493	24,962	25,347	25,240
Mining	580	596	590	535
Metal mining	53.8	53.6	50.4	48.6
Coal mining	97.7	96.0	91.6	84.8
Oil and gas extraction	322.0	339.0	339.2	293.1
Nonmetallic minerals, except fuels	106.2	107.8	108.8	108.6
Construction	5,418	5,691	5,985	6,273
General building contractors	1,257.2	1,309.6	1,372.3	1,433.7
Heavy construction, except building	776.8	798.9	838.3	861.9
Special trade contractors	3,383.6	3,582.3	3,774.1	3,977.3
Manufacturing	18,495	18,675	18,772	18,432
Durable goods	10,789	11,010	11,170	10,986
Lumber and wood products	778.4	796.0	813.0	826.4
Furniture and fixtures	504.3	512.2	530.4	540.0
Stone, clay, and glass products	543.8	552.4	563.2	569.1
Primary metal industries	710.5	710.7	711.6	689.6
Blast furnaces and basic steel products	240.2	234.9	231.5	222.3
Fabricated metal products	1,448.7	1,478.5	1,500.8	1,488.5
Industrial machinery and equipment	2,114.6	2,167.8	2,202.7	2,128.9
Computer and office equipment	361.8	375.9	379.1	360.1
Electronic and other electrical equipment	1,660.6	1,689.3	1,703.9	1,661.9
Electronic components and accessories	616.6	650.3	660.0	639.0
Transportation equipment	1,784.9	1,845.2	1,884.0	1,855.2
Motor vehicles and equipment	966.8	985.6	989.8	1,000.2
Aircraft and parts	458.1	500.6	523.7	489.7
Instruments and related products	855.4	866.0	867.6	838.9
Miscellaneous manufacturing	387.8	391.5	392.5	387.1
Nondurable goods	7,706	7,665	7,602	7,446
Food and kindred products	1,691.9	1,685.3	1,685.6	1,685.0
Tobacco products	41.4	41.4	40.6	38.6
Textile mill products	626.5	616.1	598.1	561.4
Apparel and other textile products	867.7	823.6	763.3	684.2
Paper and allied products	683.6	683.1	674.7	658.9
Printing and publishing	1,540.3	1,552.4	1,564.7	1,553.5
Chemicals and allied products	1,033.8	1,035.8	1,042.8	1,035.0
Petroleum and coal products	142.1	141.0	140.3	137.3
Rubber and misc. plastics products	982.7	996.1	1,008.9	1,018.6
Leather and leather products	95.7	90.5	82.9	73.7
Service-producing	95,115	97,727	100,480	103,370
Transportation and public utilities	6,253	6,408	6,600	6,791
Transportation	4,019	4,123	4,276	4,425
Railroad transportation	230.9	226.5	230.7	230.4
Local and interurban passenger transit	436.9	452.4	467.9	482.1
Trucking and warehousing	1,636.8	1,676.7	1,744.9	1,812.2
Water transportation	174.1	178.7	180.0	180.8
Transportation by air	1,107.4	1,133.9	1,183.2	1,237.4
Pipelines, except natural gas	14.5	14.2	13.9	13.3
Transportation services	418.2	440.5	455.2	468.6
Communications and public utilities	2,234	2,285	2,324	2,366
Communications	1,350.6	1,419.3	1,469.4	1,521.7
Electric, gas, and sanitary services	883.7	865.8	854.7	844.7
Wholesale trade	6,482	6,648	6,831	7,003
Durable goods	3,805	3,927	4,042	4,146
Nondurable goods	2,677	2,721	2,789	2,857

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
ANNUAL AVERAGES**

50. Employees on nonfarm payrolls by major industry and selected component groups—Continued

(In thousands)

Industry	1996	1997	1998	1999P
Retail trade	21,597	21,966	22,296	22,784
Building materials and garden supplies	893.7	929.2	947.7	987.2
General merchandise stores	2,701.8	2,700.8	2,729.7	2,773.4
Department stores	2,367.4	2,379.5	2,425.5	2,470.9
Food stores	3,435.5	3,478.1	3,481.5	3,483.2
Automotive dealers and service stations	2,266.7	2,310.8	2,341.2	2,405.8
New and used car dealers	1,030.5	1,046.1	1,047.8	1,081.6
Apparel and accessory stores	1,098.4	1,108.5	1,142.7	1,181.2
Furniture and home furnishings stores	975.2	998.8	1,026.0	1,084.7
Eating and drinking places	7,516.6	7,645.7	7,760.1	7,902.9
Miscellaneous retail establishments	2,708.5	2,793.9	2,867.3	2,965.4
Finance, insurance, and real estate	6,911	7,109	7,407	7,633
Finance	3,303	3,424	3,593	3,707
Depository institutions	2,018.6	2,027.2	2,042.2	2,047.6
Commercial banks	1,458.3	1,468.5	1,468.4	1,465.9
Savings institutions	265.8	259.8	257.7	255.6
Nondepository institutions	522.0	577.3	658.1	713.8
Mortgage bankers and brokers	233.0	262.7	327.9	364.8
Security and commodity brokers	553.0	596.0	644.8	679.0
Holding and other investment offices	209.9	223.2	248.0	266.1
Insurance	2,226	2,264	2,344	2,401
Insurance carriers	1,517.1	1,538.8	1,597.5	1,634.4
Insurance agents, brokers, and service	708.6	725.2	746.3	766.9
Real estate	1,382	1,421	1,471	1,525
Services¹	34,454	36,040	37,526	38,999
Agricultural services	627.2	678.2	705.5	758.1
Hotels and other lodging places	1,715.0	1,745.7	1,775.8	1,798.1
Personal services	1,180.2	1,185.9	1,194.7	1,205.9
Business services	7,293.0	7,987.5	8,584.0	9,124.3
Services to buildings	906.8	930.2	950.3	988.0
Personnel supply services	2,653.5	2,985.0	3,229.7	3,406.6
Help supply services	2,352.4	2,656.3	2,871.6	3,018.7
Computer and data processing services	1,227.7	1,409.4	1,599.3	1,780.5
Auto repair, services, and parking	1,080.0	1,119.6	1,144.1	1,184.5
Miscellaneous repair services	371.8	374.1	381.9	396.8
Motion pictures	524.7	550.4	573.4	600.0
Amusement and recreation services	1,476.1	1,552.3	1,600.8	1,694.5
Health services	9,477.9	9,702.7	9,845.9	9,972.7
Offices and clinics of medical doctors	1,678.3	1,739.0	1,802.9	1,865.7
Nursing and personal care facilities	1,730.4	1,756.2	1,762.0	1,755.1
Hospitals	3,811.5	3,860.4	3,926.1	3,970.0
Home health care services	674.6	710.4	671.6	654.4
Legal services	927.5	944.4	972.5	1,001.8
Educational services	2,029.9	2,103.6	2,177.1	2,269.4
Social services	2,412.6	2,517.7	2,643.8	2,782.3
Child day care services	564.7	575.9	604.5	632.0
Residential care	676.8	715.5	746.7	780.9
Museums and botanical and zoological gardens	85.4	90.1	92.6	94.4
Membership organizations	2,201.4	2,276.6	2,361.1	2,401.7
Engineering and management services	2,844.3	2,987.8	3,185.3	3,420.1
Engineering and architectural services	836.2	865.2	905.2	944.0
Management and public relations	869.5	938.8	1,033.9	1,158.0
Services, nec	47.1	49.3	52.1	56.8
Government	19,419	19,557	19,819	20,160
Federal	2,757	2,699	2,686	2,669
Federal, except Postal Service	1,900.9	1,841.5	1,819.3	1,795.7
State	4,606	4,582	4,612	4,695
Education	1,910.7	1,904.0	1,916.3	1,952.7
Other State government	2,695.0	2,677.9	2,695.1	2,742.7
Local	12,056	12,276	12,521	12,795
Education	6,748.1	6,918.3	7,081.5	7,264.5
Other local government	5,308.1	5,357.2	5,439.5	5,530.9

¹ Includes other industries, not shown separately.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from

March 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
ANNUAL AVERAGES**

51. Production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group

Industry	1996	1997	1998	1999P
Total private	82,092	84,541	86,762	88,716
Goods-producing	17,405	17,772	18,019	17,915
Mining	430	450	448	404
Construction	4,199	4,415	4,641	4,849
Manufacturing	12,776	12,907	12,930	12,662
Durable goods	7,386	7,553	7,643	7,512
Lumber and wood products	639.6	655.0	668.1	677.7
Furniture and fixtures	398.4	406.8	422.5	430.5
Stone, clay, and glass products	423.1	430.9	439.8	444.6
Primary metal industries	553.4	555.4	557.4	538.4
Blast furnaces and basic steel products	184.5	180.9	179.1	172.5
Fabricated metal products	1,088.3	1,114.8	1,131.4	1,118.8
Industrial machinery and equipment	1,320.9	1,364.1	1,390.8	1,342.5
Electronic and other electrical equipment	1,056.0	1,068.6	1,068.2	1,035.7
Transportation equipment	1,209.6	1,255.8	1,258.2	1,230.6
Motor vehicles and equipment	763.6	779.1	760.3	762.6
Instruments and related products	423.1	427.0	432.2	424.2
Miscellaneous manufacturing	273.3	274.8	274.2	268.4
Nondurable goods	5,390	5,354	5,287	5,151
Food and kindred products	1,253.7	1,251.7	1,252.8	1,256.9
Tobacco products	32.0	31.9	31.6	28.3
Textile mill products	529.4	522.3	506.5	474.9
Apparel and other textile products	711.2	672.6	614.0	544.8
Paper and allied products	519.0	520.9	514.2	499.6
Printing and publishing	841.3	847.3	845.0	828.3
Chemicals and allied products	575.4	572.7	586.0	582.5
Petroleum and coal products	92.0	93.0	92.5	90.6
Rubber and misc. plastics products	762.0	772.5	782.5	790.5
Leather and leather products	73.9	68.8	62.3	54.6
Service-producing	64,687	66,769	68,743	70,801
Transportation and public utilities	5,260	5,366	5,471	5,628
Wholesale trade	5,238	5,355	5,476	5,613
Retail trade	19,002	19,337	19,591	20,036
Finance, insurance, and real estate	5,043	5,193	5,442	5,590
Services	30,144	31,518	32,763	33,935

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 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
ANNUAL AVERAGES**

52. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group

Industry	Average weekly hours				Average hourly earnings				Average weekly earnings			
	1996	1997	1998	1999P	1996	1997	1998	1999P	1996	1997	1998	1999P
Total private	34.4	34.6	34.6	34.5	\$11.82	\$12.28	\$12.78	\$13.24	\$406.61	\$424.89	\$442.19	\$456.78
Goods-producing	41.1	41.3	41.0	41.0	13.47	13.92	14.34	14.82	553.62	574.90	587.94	607.62
Mining	45.3	45.4	43.9	43.9	15.62	16.15	16.90	17.05	707.59	733.21	741.91	748.50
Construction	39.0	39.0	38.8	39.0	15.47	16.04	16.59	17.13	603.33	625.56	643.69	668.07
Manufacturing	41.6	42.0	41.7	41.7	12.77	13.17	13.49	13.91	531.23	553.14	562.53	580.05
Overtime	4.5	4.8	4.6	4.6	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Durable goods	42.4	42.8	42.3	42.3	13.33	13.73	13.98	14.40	565.19	587.64	591.35	609.12
Overtime	4.8	5.1	4.8	4.8	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Lumber and wood products	40.8	41.0	41.1	41.1	10.44	10.76	11.10	11.47	425.95	441.16	456.21	471.42
Furniture and fixtures	39.4	40.2	40.6	40.3	10.15	10.55	10.90	11.23	399.91	424.11	442.54	452.57
Stone, clay, and glass products	43.3	43.2	43.5	43.4	12.82	13.18	13.60	13.91	555.11	569.38	591.60	603.69
Primary metal industries	44.2	44.9	44.2	44.2	14.97	15.22	15.49	15.85	661.67	683.38	684.66	700.57
Blast furnaces and basic steel products	44.5	44.9	44.6	44.8	17.80	18.03	18.43	18.87	792.10	809.55	821.98	845.38
Fabricated metal products	42.4	42.6	42.3	42.2	12.50	12.78	13.06	13.46	530.00	544.43	552.44	568.01
Industrial machinery and equipment	43.1	43.6	42.8	42.2	13.59	14.07	14.47	15.02	585.73	613.45	619.32	633.84
Electronic and other electrical equipment	41.5	42.0	41.4	41.4	12.18	12.70	13.09	13.45	505.47	533.40	541.93	556.83
Transportation equipment	44.0	44.5	43.4	43.8	17.19	17.55	17.53	18.09	756.36	780.98	760.80	792.34
Motor vehicles and equipment	44.9	45.0	43.5	45.0	17.74	18.04	17.86	18.47	796.53	811.80	776.91	831.15
Instruments and related products	41.7	42.0	41.3	41.5	13.13	13.52	13.81	14.17	547.52	567.84	570.35	588.06
Miscellaneous manufacturing	39.7	40.4	39.9	39.8	10.38	10.60	10.89	11.33	412.09	428.24	434.51	450.93
Nondurable goods	40.5	40.9	40.9	40.9	11.97	12.34	12.76	13.18	484.79	504.71	521.88	539.06
Overtime	4.1	4.4	4.3	4.4	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Food and kindred products	41.0	41.3	41.7	41.8	11.20	11.48	11.80	12.10	459.20	474.12	492.06	505.78
Tobacco products	40.0	38.9	38.3	40.0	19.35	19.24	18.55	19.03	774.00	748.44	710.47	761.20
Textile mill products	40.6	41.4	41.0	41.0	9.69	10.03	10.39	10.71	393.41	415.24	425.99	439.11
Apparel and other textile products	37.0	37.3	37.3	37.4	7.96	8.25	8.52	8.87	294.52	307.73	317.80	331.74
Paper and allied products	43.3	43.7	43.4	43.5	14.67	15.05	15.51	15.98	635.21	657.69	673.13	695.13
Printing and publishing	38.2	38.5	38.3	38.2	12.65	13.06	13.45	13.83	483.23	502.81	515.14	528.31
Chemicals and allied products	43.2	43.2	43.2	43.0	16.17	16.57	17.12	17.48	698.54	715.82	739.58	751.64
Petroleum and coal products	43.6	43.1	43.6	43.2	19.32	20.20	20.92	21.46	842.35	870.62	912.11	927.07
Rubber and misc. plastics products	41.5	41.8	41.7	41.7	11.24	11.57	11.87	12.31	466.46	483.63	494.98	513.33
Leather and leather products	38.1	38.4	37.6	37.8	8.57	8.97	9.32	9.69	326.52	344.45	350.43	366.28
Service-producing	32.7	32.9	32.9	32.8	11.26	11.73	12.27	12.74	368.20	385.92	403.68	417.87
Transportation and public utilities	39.6	39.7	39.5	38.7	14.45	14.92	15.31	15.66	572.22	592.32	604.75	606.04
Wholesale trade	38.3	38.4	38.4	38.4	12.87	13.45	14.06	14.60	492.92	516.48	539.90	560.64
Retail trade	28.8	28.9	29.0	29.0	7.99	8.33	8.73	9.08	230.11	240.74	253.17	263.32
Finance, insurance, and real estate	35.9	36.1	36.4	36.2	12.80	13.34	14.06	14.61	459.52	481.57	511.78	528.88
Services	32.4	32.6	32.6	32.6	11.79	12.28	12.85	13.39	382.00	400.33	418.91	436.51

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: Establishment survey estimates are currently projected from March 1998 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1998 forward are subject to revision.

Explanatory Notes and Estimates of Error

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 the Current Population Survey (CPS), 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, classified by such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 50,000 households (beginning with January 1996 data) located in 754 sample areas. These areas are chosen to represent all counties and independent cities in the United States, 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 and telephone interviews by the Bureau of Labor Statistics, in cooperation with State agencies. The Current Employment Statistics (CES) survey is designed to provide industry information on nonfarm 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 based on payroll reports from a sample of about 390,000 establishments employing about 48 million nonfarm wage and salary workers. The data relate to all workers, full or part time, who receive pay during the payroll period which includes the 12th of the month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of variations in definitions and coverage, source 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 data 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, and unpaid workers who worked 15 hours or more during the reference week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonfarm 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. 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 reference week—that is, were not working but had jobs from which they were temporarily absent because of illness, vacation, bad weather, childcare problems, 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 those on leave without pay for the entire payroll period are not.

Hours of work

The household survey measures hours worked for all workers whereas the payroll survey measures hours for private production and nonsupervisory workers paid for by

employers. In the household survey, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours at work. 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 the 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 various earnings series available from the household and establishment surveys, see *BLS Measures of Compensation*, BLS Bulletin 2239 (1986).

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 during the reference week, were currently available for a job, 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 U.S. Department of Labor, exclude, in addition to otherwise ineligible persons who do not file claims for benefits, 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).

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 unemploy-

ment, 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 U.S. Department of Agriculture. The principal differences in coverage are the inclusion of persons under 16 in the National Agricultural 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 data 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 manufacturers and business, Bureau of the Census. BLS establishment statistics on employment differ from employment counts derived by the Bureau of the 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, Bureau of the Census. Data in *County Business Patterns* (CBP) 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 most of government, and coverage is incomplete for some of the nonprofit agencies.

Employment covered by State unemployment insurance programs. Most nonfarm wage and salary workers are covered by the unemployment insurance programs. However, some employees, such as those working in parochial schools and churches, are not covered by unemployment insurance, whereas they are included in the BLS establishment statistics.

Household Data

("A" tables, monthly; "D" tables, quarterly)

COLLECTION AND COVERAGE

Statistics on the employment status of the population and related data are compiled by BLS using data from the Current Population Survey (CPS). This monthly survey of households is conducted for BLS by the Bureau of the Census 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 day of the month. This is known as the "reference week." Actual field interviewing is conducted in the following week, referred to as the "survey week."

Each month about 50,000 occupied units are eligible for interview. Some 3,200 of these households are contacted 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 that ranges between 6 and 7 percent. In addition to the 50,000 occupied units, there are about 9,000 sample units in an average month which are visited but found to be vacant or otherwise not eligible for enumeration. Part of the sample is changed each month. The rotation plan, as will be explained later, 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 in use as of January 1994 are as follows:

Civilian noninstitutional population. Included are persons 16 years of age and older residing in the 50 States and the District of Columbia who are not inmates of institutions (e.g., penal and mental facilities, homes for the aged), and who are not on active duty in the Armed Forces.

Employed persons. All persons who, during the reference week, (a) did any work at all (at least 1 hour) as paid employees, worked 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 vacation, illness, bad weather, child-care problems, maternity or paternity leave, labor-management dispute, job training, or other family or personal reasons, whether or not they were paid for the time off or were seeking other jobs.

Each employed person is counted only once, even if he or she holds more than one job. For purposes of occupation and industry classification, multiple jobholders are counted in the job at which they worked the greatest number of hours during the reference 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 their own house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and other organizations.

Unemployed persons. All persons who had no employment during the reference week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the 4-week-period ending with the reference week. Persons who were waiting to be recalled to a job from which they had been laid off need not have been looking for work to be classified as unemployed.

Duration of unemployment. This represents the length of time (through the current reference week) that persons classified as unemployed had been looking for work. For persons on layoff, duration of unemployment represents the number of full weeks they had been on layoff. Mean duration is the arithmetic average computed from single weeks of unemployment; median duration is the midpoint of a distribution of weeks of unemployment.

Reason for 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 five major groups: (1) *Job losers*, comprised of (a) persons on temporary layoff, who have been given a date to return to work or who expect to return within 6 months (persons on layoff need not be looking for work to qualify as unemployed), and (b) *permanent job losers*, whose employment ended involuntarily and who began looking for work; (2) *Job leavers*, persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work; (3) *Persons who completed temporary jobs*, who began looking for work after the jobs ended; (4) *Reentrants*, persons who previously worked but were out of the labor force prior to beginning their job search; and (5) *New entrants*, persons who never worked. Each of these five categories of the unemployed can be expressed as a proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers. (For statistical presentation purposes, "job losers" and "persons who completed temporary jobs" are combined into a single category until seasonal adjustments can be developed for the separate categories.)

Jobseekers. All unemployed persons who made specific efforts to find a job sometime during the 4-week period preceding the survey week are classified as jobseekers. Jobseekers do not include persons classified as on temporary layoff, who although often looking for work, are not required to do so to be classified as unemployed. Jobseekers are grouped by the methods used to seek work. Only active methods—which have the potential to result in a job offer without further action on the part of the jobseeker—qualify as job search. Examples include going to an employer directly or to a public or private employment agency, seeking assistance from friends or relatives, placing or answering ads, or using some other active 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. Passive methods, which do not qualify as job search, include reading (as opposed to answering or placing) “help wanted” ads and taking a job training course.

Labor force. This group comprises all persons classified as employed or unemployed in accordance with the criteria described above.

Unemployment rate. The unemployment rate represents the number unemployed as a percent of the labor force.

Participation rate. This represents the proportion of the population that is in the labor force.

Employment-population ratio. This represents the proportion of the population that is employed.

Not in the labor force. Included in this group are all persons in the civilian noninstitutional population who are neither employed nor unemployed. Information is collected on their desire for and availability to take a job at the time of the CPS interview, job search activity in the prior year, and reason for not looking in the 4-week period prior to the survey week. This group includes discouraged workers, defined as persons not in the labor force who want and are available for a job and who have looked for work sometime in the past 12 months (or since the end of their last job if they held one within the past 12 months), but are not currently looking, because they believe there are no jobs available or there are none for which they would qualify.

Persons classified as not in the labor force who are in the sample for either their fourth or eighth month are asked additional questions relating to job history and workseeking intentions. These latter data are available on a quarterly basis.

Occupation, industry, and class of worker. This information for the employed applies to the job held in the reference week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours. The unemployed are classified according to their last job. The occupational and industrial classification of CPS data is based on the coding systems used in the 1990 census.

The class-of-worker breakdown assigns workers to the following categories: Private and government wage and salary workers, self-employed workers, and unpaid family workers. Wage and salary workers receive wages, salary, commissions, 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, trade, or farm. Only the unincorporated self-employed are included in the self-employed category in the class of worker typology. Self-employed persons who respond that their businesses are incorporated are included among wage and salary workers, because technically, they are paid employees of a corporation. 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.

Multiple jobholders. These are employed persons who, during the reference week, had either two or more jobs as a wage and salary worker, were self-employed and also held a wage and salary job, or worked as an unpaid family worker and also held a wage and salary job. Excluded are self-employed persons with multiple businesses and persons with multiple jobs as unpaid family workers.

Hours of work. These statistics relate to the actual number of hours worked during the reference 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 published figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job. Unpublished data are available for the hours worked in each job and for usual hours.

At work part time for economic reasons. Sometimes referred to as involuntary part time, this category refers to individuals who gave an economic reason for working 1 to 34 hours during the reference week. Economic reasons include slack work or unfavorable business conditions, inability to find full-time work, and seasonal declines in demand. Those who usually work part time must also indicate that they want and are available to work full time to be classified as on part time for economic reasons.

At work part time for noneconomic reasons. This group includes those persons who usually work part time and were at work 1 to 34 hours during the reference week for a noneconomic reason. Noneconomic reasons include, for example: Illness or other medical limitations, child-care problems or other family or personal obligations, school or training, retirement or Social Security limits on earnings, and being in a job where full-time work is less than 35 hours. The group also includes those who gave an economic reason for usually working 1 to 34 hours but said they do not want to work full time or were unavailable for such work.

Usual full- or part-time status. Data on persons “at work” exclude persons who were temporarily absent from a job and therefore classified 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. In order to differentiate a person’s normal schedule from their activity during the reference week, persons are also classified according to their usual full- or part-time status. In this context, *full-time workers* are those who usually worked 35 hours or more (at all jobs combined). This group will include some individuals who worked less than 35 hours in the reference week for either economic or noneconomic reasons and those who are temporarily absent from work. Similarly, *part-time workers* are those who usually work less than 35 hours per week (at all jobs), regardless of the number of hours worked in the reference week. This may include some individuals who actually worked more than 34 hours in the reference week, as well as those who are temporarily absent from work. The *full-time labor force* includes all employed persons who usually work full time and unemployed persons who are either looking for full-time work or are on layoff from full-time jobs. The *part-time labor force* consists of employed persons who usually work part time and unemployed persons who are seeking or are on layoff from part-time jobs. Unemployment rates for full- and part-time workers are calculated using the concepts of the *full- and part-time labor force*.

White, black, and other. These are terms used to describe the race of persons. Included in the “other” group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. Because of the relatively small sample size, data for “other” races are not published. In the enumeration process, race is determined by the household respondent.

Hispanic origin. This refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin may be of any race; thus they are included in both the white and black population groups.

Vietnam-era veterans. These are persons who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Published data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are persons who never served in the Armed Forces.

Usual weekly earnings. Data represent earnings before taxes and other deductions, and include any overtime pay, commissions, or tips usually received (at the main job in the case of multiple jobholders.) Earnings reported on a basis other than weekly (e.g., annual, monthly, hourly) are converted to weekly. 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 all self-employed persons regardless of whether or not their business’s were incorporated) who usually work full time on their sole or primary job.

Median earnings. These figures 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. These are the 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 living in 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 relates to persons who are separated due to marital problems, as well as husbands and wives who are living apart because one or the other was employed elsewhere, on duty with the Armed Forces, or any other reasons.

Household. A household consists of all persons—related family members and all unrelated persons—who occupy a housing unit and have no other usual address. 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. A family is defined as 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. 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.

HISTORICAL COMPARABILITY

Changes in concepts and methods

While current survey concepts and methods are very similar to those introduced at the inception of the survey in 1940, a number of changes have been made over the years to improve the accuracy and usefulness of the data. Some of the most important changes include:

- In 1945, the questionnaire was radically changed with

the introduction of four basic employment questions. Prior to that time, the survey did not contain specific question wording, but rather relied on a complicated scheme of activity prioritization.

- In 1953, The current 4-8-4 rotation system was adopted, whereby households are interviewed for 4 consecutive months, leave the sample for 8 months, and then return to the sample for the same 4 months of the following year. Before this system was introduced, households were interviewed for 6 consecutive months and then replaced. The new system provided some year-to-year overlap in the sample, thereby improving measurement over time.

- In 1955, The survey reference week was changed to the calendar week including the 12th day of the month, for greater consistency with the reference period used for other labor-related statistics. Previously, the calendar week containing the 8th day of the month had been used as the reference week.

- In 1957, The employment definition was modified slightly as a result of a comprehensive interagency review of labor force concepts and methods. Two relatively small groups of persons classified as employed, under "with a job but not at work," were assigned to different classifications. Persons on layoff with definite instructions to return to work within 30 days of the layoff date, and persons volunteering that they were waiting to start a new wage and salary job within 30 days of interview, were, for the most part, reassigned to the unemployed classification. The only exception was the small subgroup in school during the reference week but waiting to start new jobs, which was transferred to not in the labor force.

- In 1967, More substantive changes were made as a result of the recommendations of the President's Committee to Appraise Employment and Unemployment Statistics (the Gordon Committee). The principal improvements were as follows:

- a) A 4-week job search period and specific questions on jobseeking activity were introduced. Previously, the questionnaire was ambiguous as to the time period for jobseeking and there were no specific questions concerning job search methods.

- b) An availability test was introduced whereby a person must be currently available for work in order to be classified as unemployed. Previously, there was no such requirement. This revision to the concept mainly affected students, who, for example, may begin to look for summer jobs in the spring although they will not be available until June or July. Such persons, until 1967, had been classified as unemployed but since have been assigned to the "not in the labor force" category.

- c) Persons "with a job but not at work" because of strikes, bad weather, etc., who volunteered that they were looking for work, were shifted from unemployed status to employed.

- d) The lower age limit for official statistics on employment, unemployment, and other labor force concepts was raised from 14 to 16 years. Historical data for most major series have been revised to provide consistent information based on the new minimum age limit.

- e) New questions were added to obtain additional information on persons not in the labor force, including those referred to as "discouraged workers," defined as persons who indicate that they want a job but are not currently looking because they believe there are no jobs available or none for which they would qualify.

- f) New "probing" questions were added to the questionnaire in order to increase the reliability of information on hours of work, duration of unemployment, and self-employment.

- In 1994, Major changes to the Current Population Survey (CPS) were introduced, which included a complete redesign of the questionnaire and the use of computer-assisted interviewing for the entire survey. In addition, there were revisions to some of the labor force concepts and definitions, including the implementation of some changes recommended in 1979 by the National Commission on Employment and Unemployment Statistics (NCEUS, also known as the Levitan Commission). Some of the major changes to the survey were:

- a) The introduction of a redesigned and automated questionnaire. The CPS questionnaire was totally redesigned in order to obtain more accurate, comprehensive, and relevant information, and to take advantage of state-of-the-art computer interviewing techniques.

- b) The addition of two, more objective, criteria to the definition of discouraged workers. Prior to 1994, to be classified as a discouraged worker, a person must have wanted a job and be reported as not currently looking because of a belief that no jobs were available or that there were none for which he or she would qualify. Beginning in 1994, persons classified as discouraged must also have looked for a job within the past year (or since their last job, if they worked during the year), and must have been available for work during the reference week (a direct question on availability was added in 1994; prior to 1994, availability had been inferred from responses to other questions). These changes were made because the NCEUS and others felt that the previous definition of discouraged workers was too subjective, relying mainly on an individual's stated desire for a job and not on prior testing of the labor market.

- c) Similarly, the identification of persons employed part time for economic reasons (working less than 35 hours in the reference week because of poor business conditions or because of an inability to find full-time work) was tightened by adding two new criteria for persons who usually work part time: They must want and be available for full-time work. Previously, such information was inferred. (Per-

sons who usually work full time but worked part time for an economic reason during the reference week are assumed to meet these criteria.)

d) Specific questions were added about the expectation of recall for persons who indicate that they are on layoff. To be classified as "on temporary layoff," persons must expect to be recalled to their jobs. Previously, the questionnaire did not include explicit questions about the expectation of recall.

e) Persons volunteering that they were waiting to start a new job within 30 days must have looked for work in the 4 weeks prior to the survey in order to be classified as unemployed. Previously, such persons did not have to meet the job search requirement in order to be included among the unemployed.

For additional information on changes in CPS concepts and methods, see *Concepts and Methods used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463, October 1976 and "Overhauling the Current Population Survey—Why is it Necessary to Change?," "Redesigning the Questionnaire," and "Evaluating Changes in the Estimates," *Monthly Labor Review*, September 1993, and "Revisions in the Current Population Survey Effective January 1994," in the February 1994 issue of this publication.

Noncomparability of labor force levels

In addition to the refinements in concepts, definitions, and methods made over the years, other changes have also affected the comparability of the labor force data.

- 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.

- 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.

- 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.

- 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; unemployment levels and rates were essentially unchanged.

- In March 1973, a subsequent population adjustment based on the 1970 census was introduced. 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.

- Beginning in January 1974, the method 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 this publication.

- Effective in July 1975, as a result of the large inflow 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, with all of the changes being confined to the "other" component of the 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 this publication.

- 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 adjustment 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 this publication.

- Beginning in January 1982, the second-stage ratio adjustment method was changed. 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 this publication. 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 the total population and in the 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 also is described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 (described above), and data users should consider them when comparing estimates from different periods.

- Beginning in January 1983, the first-stage ratio adjustment method was updated to incorporate data 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 this publication. 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 method 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 population and labor

force estimates were raised by about 425,000 and 305,000, respectively, and Hispanic 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 were 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.

- Beginning in August 1989, the second-stage ratio estimate cells were changed slightly to decrease the chance of very small cells occurring and to be more consistent with published age, sex, race cells. This change had virtually no effect on national estimates.

- Beginning in January 1994, 1990 census-based population controls, adjusted for the estimated undercount, were introduced into the second stage estimation procedure. This change resulted in substantial increases in total population and in all major labor force categories. Effective February 1996, these controls were introduced into the estimates for 1990-93. Under the new population controls, the civilian noninstitutional population for 1990 increased by about 1.1 million, employment by about 880,000, and unemployment by approximately 175,000. The overall unemployment rate rose by about 0.1 percentage point. For further information, see "Revisions in the Current Population Survey Effective January 1994," and "Revisions in Household Survey Data Effective February 1996" in the February 1994 and March 1996 issues, respectively, of this publication.

Additionally, for the period January through May 1994, the composite estimation procedure was suspended due to technical and logistical reasons.

- Beginning in January 1997, the population controls used in the second-stage ratio adjustment method were revised to reflect updated information on the demographic characteristics of immigrants to, and emigrants from, the United States. As a result, the civilian noninstitutional population 16 years and over was raised by about 470,000. The labor force and employment levels were increased by about 320,000, and 290,000, respectively. The Hispanic-origin population and labor force estimates were raised by about 450,000 and 250,000 respectively, and Hispanic employment by 325,000. Overall and subgroup unemployment rates and other percentages of labor market participation were not affected. An explanation of the changes and their effect on national labor force estimates appear in "Revisions in the Current Population Survey Effective January 1997" in the February 1997 issue of this publication.

- Beginning in January 1998, new composite estimation procedures and minor revisions in the population controls were introduced into the household survey. The new composite estimation procedures simplify processing of the

monthly labor force data at BLS, allow users of the survey microdata to replicate more easily the official estimates released by BLS, and increase the reliability of the employment and labor force estimates. The new procedures also produce somewhat lower estimates of the civilian labor force and employment and slightly higher estimates of unemployment. For example, based on 1997 annual average data, using old and new composite weights, the differences were as follows: Civilian labor force (-229,000), total employed (-256,000), and total unemployed (+27,000). Unemployment rates were not significantly affected.

Also beginning in January 1998, the population controls used in the survey were revised to reflect new estimates of legal immigration to the U.S. and a change in the method for projecting the emigration of foreign-born legal residents. As a result, the Hispanic-origin population was raised by about 57,000; however, the total civilian noninstitutional population 16 years and over was essentially unchanged. More detailed information on these changes and their effect on the estimates of labor force change and composition appear in "Revisions in the Current Population Survey Effective January 1998," in the February 1998 issue of this publication.

- Beginning in January 1999, the population controls used in the survey were revised to reflect newly updated information on immigration. As a result, the civilian noninstitutional population 16 years and over was raised by about 310,000. The impact of the changes varied for different demographic groups. The civilian noninstitutional population for men 16 years and over was lowered by about 185,000 while that for women was increased by about 490,000. The Hispanic-origin population was lowered by about 165,000 while that of persons of non-Hispanic origin was raised by about 470,000. Overall labor force and employment levels were increased by about 60,000 each while the Hispanic labor and employment estimates were reduced by about 225,000 and 215,000, respectively. The changes had only a small impact on overall and subgroup unemployment rates and other percentages of labor market participation. An explanation of the changes and their effect on national labor force estimates appear in "Revisions in the Current Population Survey Effective January 1999" in the February 1999 issue of this publication.

Changes in the occupational and industrial classification systems

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 this publication.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. The 1980 census occupational classification system evolved from the Standard Occupational Classification (SOC) system and was 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 was based on the 1972 Standard Industrial Classification (SIC) system, as modified in 1977. The adoption of the new system had much less of an 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 this publication.

Beginning in January 1992, the occupational and industrial classification systems used in the 1990 census were introduced into the CPS. (These systems were largely based on the 1980 Standard Occupational Classification (SOC) and 1987 Standard Industrial Classification (SIC) systems, respectively.) There were a few breaks in comparability between the 1980 and 1990 census-based systems, particularly within the "technical, sales, and administrative support" categories. The most notable changes in industry classification were the shift of several industries from "business services" to "professional services" and the splitting of some industries into smaller, more detailed categories. A number of industry titles were changed as well, with no change in content.

Sampling

Since the inception of the survey, there have been various changes in the design of the CPS sample. The sample is traditionally redesigned and a new sample selected after each decennial census. Also, the number of sample areas and the number of sample persons are changed occasionally. Most of these changes are made to improve the efficiency of the sample design, increase the reliability of the sample estimates, or control cost.

Changes in this regard since 1960 are as follows: When

Alaska and Hawaii received statehood in 1959 and 1960, respectively, three sample areas were added to the existing sample to account for the population of these States. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia, was designed to provide more reliable annual average estimates for States. In October 1978, a coverage improvement sample of approximately 450 sample household units representing 237,000 occupied mobile homes and 600,000 new construction housing units was added. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added. A sample reduction of about 6,000 units was implemented in May 1981. In January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to the Standard Metropolitan Statistical Areas (SMSAs), which were redefined in 1973. In January 1985, a new State-based CPS sample was selected based on 1980 census information. A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8-month period, April-November 1989. A redesigned CPS sample based on the 1990 decennial census was selected for use during the 1990s. Households from this new sample were phased into the CPS between April 1994 and July 1995. The July 1995 sample was the first monthly sample based entirely on the 1990 census. For further information on the 1990 sample redesign, see "Redesign of the Sample for the Current Population Survey" in the May 1994 issue of this publication.

The original 1990 census-based sample design included about 66,000 housing units per month located in 792 selected geographic areas called primary sampling units (PSUs). The sample was initially selected to meet specific reliability criteria for the Nation, for each of the 50 States and the District of Columbia, and for the sub-State areas of New York City and the Los Angeles-Long Beach metropolitan area. In 1996, the original sample design reliability criteria were modified to reduce costs. The current criteria, given below, are based on the coefficient of variation (CV) of the unemployment level, where the CV is defined as the standard error of the estimate divided by the estimate, expressed as a percentage. These CV controls assume a 6-percent unemployment rate to establish a consistent specification of sampling error.

The current sample design, introduced in January 1996, includes about 59,000 households from 754 sample areas and maintains a 1.9-percent CV on national monthly estimates of unemployment level. This translates into a change of 0.2 percentage point in the unemployment rate being significant at a 90-percent confidence level. For each of the 50 States and for the District of Columbia, the design maintains a CV of at most 8-percent on the annual average estimate of unemployment level, assuming a 6-percent unemployment rate. Due to the national reliability criterion, estimates for several large States are substantially more reliable than the State design criterion requires. Annual average unemploy-

ment estimates for California, Florida, New York, and Texas, for example, carry a CV of less than 4 percent.

In the first stage of sampling, the 754 sample areas are chosen. In the second stage, ultimate sampling unit clusters composed of about four housing units each are selected. Each month, about 59,000 housing units are assigned for data collection, of which about 50,000 are occupied and thus eligible for interview. The remainder are units found to be destroyed, vacant, converted to nonresidential use, containing persons whose usual place of residence is elsewhere, or ineligible for other reasons. Of the 50,000 housing units, about 6.5 percent are not interviewed in a given month due to temporary absence (vacation, etc.), other failures to make contact after repeated attempts, inability of persons contacted to respond, unavailability for other reasons, and refusals to cooperate (about half of the noninterviews). Information is obtained each month for about 94,000 persons 16 years of age or older.

Selection of sample areas. The entire area of the United States, consisting of 3,141 counties and independent cities, is divided into 2,007 sample units (PSUs). In most States, a PSU consists of a county or a number of contiguous counties. In New England and Hawaii, minor civil divisions are used instead of counties.

Metropolitan areas within a State are used as a basis for forming PSUs. Outside of metropolitan areas, counties normally are combined except when the geographic area of an individual county is too large. Combining counties to form PSUs provides greater heterogeneity; a typical PSU includes urban and rural residents of both high and low economic levels and encompasses, to the extent feasible, diverse occupations and industries. Another important consideration is that the PSU be sufficiently compact so that, with a small sample spread throughout, it can be efficiently canvassed without undue travel cost.

The 2,007 PSUs are grouped into strata within each State. Then one PSU is selected from each stratum with the probability of selection proportional to the population of the PSU. Nationally, there are a total of 428 PSUs in strata by themselves. These strata are self-representing and are generally the most populous PSUs in each State. The 326 remaining strata are formed by combining PSUs that are similar in such characteristics as unemployment, proportion of housing units with three or more persons, number of persons employed in various industries, and average monthly wages for various industries. The single PSU randomly selected from each of these strata is non-self-representing because it represents not only itself but the entire stratum. The probability of selecting a particular PSU in a non-self-representing stratum is proportional to its 1990 population. For example, within a stratum, the chance that a PSU with a population of 50,000 would be selected for the sample is twice that for a PSU having a population of 25,000.

Selection of sample households. Because the sample design is State based, the sampling ratio differs by State and

depends on State population size as well as both national and State reliability requirements. The State sampling ratios range roughly from 1 in every 100 households to 1 in every 3,000 households. The sampling ratio occasionally is modified slightly to hold the size of the sample relatively constant given the overall growth of the population. The sampling ratio used within a sample PSU depends on the probability of selection of the PSU and the sampling ratio for the State. In a sample PSU with a probability of selection of 1 in 10 and a State sampling ratio of 3,000, a within-PSU sampling ratio of 1 in 300 achieves the desired ratio of 1 in 3,000 for the stratum.

The 1990 within-PSU sample design was developed using block-level data from the 1990 census. (The 1990 census was the first decennial census that produced data at the block level for the entire country.) Normally, census blocks are bounded by streets and other prominent physical features such as rivers or railroad tracks. County, minor civil division, and census place limits also serve as block boundaries. In cities, blocks can be bounded by four streets and be quite small in land area. In rural areas, blocks can be several square miles in size.

For the purpose of sample selection, census blocks were grouped into three strata: Unit, group quarters, and area. (Occasionally, units within a block were split between the unit and group quarters strata.) The unit stratum contained regular housing units with addresses that were easy to locate (e.g., most single family homes, townhouses, condominiums, apartment units, and mobile homes). The group quarters stratum contained housing units where residents shared common facilities or received formal or authorized care or custody. Unit and group quarters blocks exist primarily in urban areas. The area stratum contains blocks with addresses that are more difficult to locate. Area blocks exist primarily in rural areas.

To reduce the variability of the survey estimates and to ensure that the within-PSU sample would reflect the demographic and socioeconomic characteristics of the PSU, blocks within the unit, group quarters, and area strata were sorted using geographic and block-level data from the census. Examples of the census variables used for sorting include proportion of minority renter-occupied housing units, proportion of housing units with female householders, and proportion of owner-occupied housing units. The specific sorting variables used differed by type of PSU (urban or rural) and stratum.

Within each block, housing units were sorted geographically and grouped into clusters of approximately four units. A systematic sample of these clusters was then selected independently from each stratum using the appropriate within-PSU sampling ratio. The geographic clustering of the sample units reduces field representative travel costs. Prior to interviewing, special listing procedures are used to locate the particular sample addresses in the group quarters and area blocks.

Units in the three strata described above all existed at the time of the 1990 decennial census. Through a series of ad-

ditional procedures, a sample of building permits is included in the CPS to represent housing units built after the decennial census. Adding these newly built units keeps the sample up-to-date and representative of the population. It also helps to keep the sample size stable: over the life of the sample, the addition of newly built housing units compensates for the loss of "old" units which may be abandoned, demolished, or converted to nonresidential use.

Rotation of sample. Part of the sample is changed each month. Each monthly sample is divided into eight representative subsamples or rotation groups. A given rotation group is interviewed for a total of 8 months, divided into two equal periods. It is in the sample for 4 consecutive months, leaves the sample during the following 8 months, and then returns for another 4 consecutive months. In each monthly sample, one of the eight rotation groups is in the first month of enumeration, another rotation group is in the second month, and so on. Under this system, 75 percent of the sample is common from month to month and 50 percent from year to year for the same month. This procedure provides a substantial amount of month-to-month and year-to-year overlap in the sample, thus providing better estimates of change and reducing discontinuities in the series of data without burdening any specific group of households with an unduly long period of inquiry.

CPS sample, 1947 to present. Table 1-A provides a description of some aspects of the CPS sample designs in use since 1947. 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. A description of the 1990 census-based sample design appears in "Redesign of the Sample for the Current Population Survey," in the May 1994 issue of this publication.

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. Since 1985, most sample persons within the same State have had the same probability of selection. Some selection probabilities may differ within a State due to the sample design or for operational reasons. Field subsampling, for example, which is carried out when areas selected for the sample are found to contain many more households than expected, may cause probabilities of selection to differ for some sample areas within a State. Through a series of estimation steps (outlined below), the selection probabilities are adjusted for noninterviews and survey undercoverage;

Table 1-A. Characteristics of the CPS sample, 1947 to present

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 Mar. 1989	729	53,200	2,600	11,500
April 1989 to Oct. 1994 ³	729	57,400	2,600	11,800
Nov. 1994 to Aug. 1995 ⁴	792	54,500	3,500	10,000
Sept. 1995 to Dec. 1995	792	52,900	3,400	9,700
Jan. 1996 to present	754	46,800	3,200	9,000

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.

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

⁴ Includes 2,000 additional assigned housing units from Georgia and Virginia that were gradually phased in during the 10-month period, October 1994-August 1995.

data from previous months are incorporated into the estimates through the composite estimation procedure.

1. Noninterview adjustment. The weights for all interviewed households are adjusted 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 for clusters of similar sample areas that are usually, but not necessarily, contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within each cluster, there is a further breakdown by residence. Each MSA cluster is split by "central city" and "balance of the MSA." Each non-MSA cluster is split by "urban" and "rural" residence categories. The proportion of sample households not interviewed varies from 6 to 7 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 State of residence. Because 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 adjustment, as follows:

a. First-stage ratio estimation. The purpose of the first-stage ratio adjustment is to reduce the contribution to variance that results from selecting a sample of PSUs rather

than drawing sample households from every PSU in the Nation. This adjustment is made to the CPS weights in two race cells: Black and nonblack; it is applied only to PSUs that are not self-representing and for those States that have a substantial number of black households. The procedure corrects for differences that existed in each State cell at the time of the 1990 census between 1) the race distribution of the population in sample PSUs and 2) the race distribution of all PSUs (both 1 and 2 exclude self-representing PSUs).

b. Second-stage ratio estimation. This procedure substantially reduces the variability of estimates and corrects, to some extent, for CPS undercoverage. The CPS sample weights are adjusted to ensure that sample-based estimates of population match independent population controls. Three sets of controls are used:

1) 51 State controls of the civilian noninstitutional population 16 years of age and older,

2) National civilian noninstitutional population controls for 14 Hispanic and 5 non-Hispanic age-sex categories,

3) National civilian noninstitutional population controls for 66 white, 42 black, and 10 "other" age-sex categories.

The independent population controls are prepared by projecting forward the resident population as enumerated on April 1, 1990. The projections are derived by updating demographic census data with information from a variety of other data sources that account for births, deaths, and net migration. Estimated numbers of resident Armed Forces per-

sonnel and institutionalized persons reduce the resident population to the civilian noninstitutional population. Estimates of net census undercount, determined from the Post Enumeration Survey, are added to the population projections. Prior to January 1994, the projections were based on earlier censuses, and there was no correction for census undercount. A summary of the current procedures used to make population projections is given in "Revisions in the Current Population Survey Effective January 1994," appearing in the February 1994 issue of this publication.

3. Composite estimation procedure. The last step in the preparation of most CPS estimates makes use of a composite estimation procedure. The composite estimate consists of a weighted average of two factors: The two-stage ratio estimate based on the entire sample from the current month and the composite estimate for the previous month, plus an estimate of the month-to-month change based on the six rotation groups common to both months. In addition, a bias adjustment term is added to the weighted average to account for relative bias associated with month-in-sample estimates. This month-in-sample bias is exhibited by unemployment estimates for persons in their first and fifth months in the CPS being generally higher than estimates obtained for the other months.

The composite estimate results in a reduction in the sampling error beyond that which is achieved after the two stages of ratio adjustment. For some items, the reduction is substantial. The resultant gains in reliability are greatest in estimates of month-to-month change, although gains are also usually obtained for estimates of level in a given month, change from year to year, and change over other intervals of time.

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 indicate primarily the magnitude of the sampling error. They also incorporate the effect of some nonsampling errors in response and enumeration but do not account for 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., the inability to obtain information about all persons in the sample; differences in the interpretation of questions; inability or unwillingness of respondents to provide correct information; inability to recall information; errors made in collecting and 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 are 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. Bailer, *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. The CPS covers about 92 percent of the decennial census population (adjusted for census undercount). 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 than for whites. Ratio adjustment to independent age-sex-race-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-origin group.

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 Bailer, 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 errors and describes attempts to measure them in the CPS.

Sampling error. When a sample rather than the entire population is surveyed, estimates differ from the true population values that they represent. This difference, or sampling error, occurs by chance, and its variability is measured by the standard error of the estimate. Sample estimates from a given survey design are unbiased when an average of the estimates from all possible samples would yield, hypothetically, the true population value. In this case, the sample estimate and its standard error can be used to construct approximate confidence intervals, or ranges of values, that include the true population value with known probabilities. If the process of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for 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 true population value.
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 true population value.
3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the true population value.

Although the estimating methods used in the CPS do not produce unbiased estimates, biases for most estimates are believed to be small enough so that these confidence interval statements are approximately true.

Since it would be too costly to develop standard errors for all CPS estimates, generalized variance function techniques are used to calculate sets of standard errors for various types of labor force characteristics. It is important to keep in mind that standard errors computed from these methods reflect contributions from sampling errors and some kinds of nonsampling errors and indicate the general magnitude of an estimate's standard error rather than its precise value.

The generalized variance functions and standard errors provided here are based on the sample design and estimation procedures as of 1987 and have been adjusted to reflect the population levels and sample size as of 1996. Standard errors for years prior to 1996 may be roughly approximated by adjusting, as follows, the standard errors presented here.

1. For the years 1967 through 1995, multiply the standard errors by 0.96.
2. For the years 1956 through 1966, multiply the standard errors by 1.17.
3. For years prior to 1956, multiply the standard errors by 1.44.

Table 1-B. Standard errors for major employment status categories
(In thousands)

Category	Monthly level	Consecutive-month change
Total, 16 years and over:		
Civilian labor force	293	216
Employed	312	235
Unemployed	145	161
Men, 20 years and over:		
Civilian labor force	194	164
Employed	206	174
Unemployed	97	113
Women, 20 years and over:		
Civilian labor force	219	165
Employed	224	171
Unemployed	91	105
Both sexes, 16 to 19 years:		
Civilian labor force	97	95
Employed	96	95
Unemployed	62	81
Black, 16 years and over:		
Civilian labor force	138	101
Employed	140	105
Unemployed	66	76
Men, 20 years and over:		
Civilian labor force	78	69
Employed	71	72
Unemployed	43	50
Women, 20 years and over:		
Civilian labor force	98	73
Employed	97	74
Unemployed	44	51
Both sexes, 16 to 19 years:		
Civilian labor force	40	42
Employed	35	37
Unemployed	32	37
Hispanic origin, 16 years and over:		
Civilian labor force	130	91
Employed	134	107
Unemployed	63	73

More accurate standard error estimates for historical CPS data may be found in previous issues of this publication.

Tables 1-B through 1-H are provided so that approximate standard errors of estimates can be easily obtained. These tables are briefly summarized here; details illustrating the proper use of each table follow.

Tables 1-B and 1-C show standard errors for estimated monthly levels and rates for selected employment status characteristics; these tables also provide standard errors for consecutive month-to-month changes in the estimates. These standard errors are based on levels of recent estimates and can be determined directly by finding the characteristic of interest.

Tables 1-D and 1-E show standard errors for monthly levels and consecutive monthly changes in levels for general employment status characteristics. The standard errors are

Table 1-C. Standard errors for unemployment rates by major characteristics

Characteristic	Monthly level	Consecutive-month change
Total, 16 years and over	0.11	0.13
Men, 16 years and over	.15	.18
Men, 20 years and over	.14	.17
Women, 16 years and over	.16	.19
Women, 20 years and over	.16	.19
Both sexes, 16 to 19 years	.74	.97
White workers	.11	.13
Black workers	.45	.53
Hispanic-origin workers	.50	.59
Married men, spouse present	.15	.18
Married women, spouse present	.18	.22
Women who maintain families	.54	.64
Occupation		
Executive, administrative, and managerial ...	.20	.24
Professional specialty	.20	.23
Technicians and related support	.45	.54
Sales	.30	.36
Administrative support, including clerical	.25	.30
Private household	1.75	2.08
Protective service	.67	.80
Service, except private household and protective service	.38	.45
Precision production, craft, and repair	.34	.40
Machine operators, assemblers, and inspectors	.49	.58
Transportation and material moving	.55	.66
Handlers, equipment cleaners, helpers, and laborers	.73	.87
Farming, forestry, and fishing	.73	.87
Industry		
Nonagricultural private wage and salary workers	.13	.15
Goods-producing industries	.25	.30
Mining	1.39	1.65
Construction	.68	.81
Manufacturing	.26	.31
Durable goods	.32	.38
Nondurable goods	.42	.50
Service-producing industries	.15	.18
Transportation, communications, and public utilities	.42	.50
Wholesale and retail trade	.27	.32
Finance and services	.19	.23
Government workers	.21	.25
Agricultural wage and salary workers	1.18	1.40

calculated using linear interpolation based on the size of the monthly estimates.

Tables 1-F and 1-G give parameters that can be used with formulas to calculate a standard error on nearly any specified level, unemployment rate, percentage, or consecutive month-to-month change. For monthly levels and consecutive month-to-month changes in levels, tables 1-F and 1-G are preferred to tables 1-D and 1-E, since the formulas provide more accurate results than linear interpolation.

Table 1-H presents factors used to convert standard errors of monthly levels and rates determined from tables 1-B, 1-C, 1-D, and 1-F to standard errors pertaining to quar-

terly and yearly averages, consecutive year-to-year changes of monthly estimates, and changes in quarterly and yearly averages.

The standard errors for estimated changes from 1 month to the next, 1 year to the next, etc., depend more on the monthly levels for characteristics than on the size of the changes. Accordingly, tables 1-E, 1-G, and 1-H use monthly levels (not the magnitude of the changes) for approximating standard errors of change. Standard errors for estimated change between nonconsecutive months are not provided (except for year-to-year change); however, these may be assumed to be higher than the standard errors for consecutive monthly change.

Use of tables 1-B and 1-C. These table provide a quick reference for standard errors of major characteristics. Table 1-B gives approximate standard errors for estimates of monthly levels and consecutive month-to-month changes in levels for major employment status categories. Table 1-C gives approximate standard errors for estimates of monthly unemployment rates and consecutive month-to-month changes in unemployment rates for some demographic, industrial, and occupational categories. For characteristics not given in tables 1-B and 1-C, refer to either tables 1-D and 1-E or tables 1-F and 1-G.

Illustration. Suppose that for a given month the number of women 20 years and over in the civilian labor force is estimated to be 54,000,000. For this characteristic, the approximate standard error of 219,000 is given in table 1-B in the row, "Total, 16 years and over: Women, 20 years and over: Civilian labor force." A 90-percent confidence interval, as shown by these data, would then be the interval from 53,650,000 to 54,350,000. Concluding that the true labor force level lies within this interval would be correct for roughly 90 percent of all possible samples.

Use of tables 1-D and 1-E. From these tables, approximate standard errors can be calculated for estimates of monthly levels and month-to-month changes in levels for major labor force characteristics by race and Hispanic origin. For major categories not shown, such as male or female, tables 1-F and 1-G can be used. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. For table 1-E, which applies to estimates of consecutive month-to-month change, the average of the two monthly levels (not the change) is used to select the appropriate row in the table.

Illustration. Assume that between 2 consecutive months the estimated number of employed persons changed from 115,600,000 to 116,700,000, an apparent increase of 1,100,000. The approximate standard error on this month-to-month change estimate is based on the average level of the estimate for the 2 months, 116,150,000. Using the

Table 1-D. **Standard errors for estimates of monthly levels**
(In thousands)

Estimated monthly level	Characteristic									
	Agricultural employment		Unemployment			Labor force data other than agricultural employment and unemployment				
	Total or white	Black	Total or white	Black	Hispanic origin	Total	White	Black	Hispanic origin	
									Employed	Civilian labor force or not in labor force
50	12	13	12	13	13	12	12	13	14	14
100	18	18	17	18	19	17	17	18	20	20
500	41	39	38	39	42	39	39	39	44	44
1,000	62	55	54	54	59	54	54	55	61	61
2,000	96	76	76	74	82	77	77	76	83	83
4,000	157		107	96	113	108	108	103	111	111
6,000	216		131	106		131	131	120	126	126
8,000	273		150	108		151	150	131	134	134
10,000	330		167	101		168	167	137	135	135
15,000			201			202	201	137	110	110
20,000			228			229	227	113		
30,000						271	267			
40,000						302	296			
50,000						324	315			
60,000						340	327			
70,000						350	333			
80,000						354	333			
100,000						349	313			
120,000						322	264			
140,000						267	159			
160,000										
180,000										

Table 1-E. **Standard errors for estimates of month-to-month change in levels**
(In thousands)

Estimated monthly level	Characteristic									
	Agricultural employment		Unemployment			Labor force data other than agricultural employment and unemployment				
	Total or white	Black	Total or white	Black	Hispanic origin	Total	White	Black	Hispanic origin	
									Employed	Civilian labor force or not in labor force
50	14	12	14	15	16	10	10	10	12	10
100	19	17	20	21	22	14	14	15	17	14
500	43	37	46	46	50	32	32	33	37	31
1,000	59	52	64	63	69	45	45	45	51	43
2,000	78	72	89	84	95	63	63	62	70	59
4,000	95		124	104	127	88	88	84	93	78
6,000	94		148	106		108	108	97	105	89
8,000	73		166	92		123	123	104	110	94
10,000			180	47		137	137	108	110	95
15,000			204			165	165	100	79	76
20,000			215			187	187	58		
30,000						221	221			
40,000						245	245			
50,000						262	262			
60,000						274	274			
70,000						281	281			
80,000						283	283			
100,000						274	274			
120,000						246	246			
140,000						188	188			
160,000										
180,000										

table 1-E column titled "Labor force data other than agricultural employment and unemployment, Total," it is necessary to find the standard errors corresponding to the two monthly level entries between which the value 116,150,000 lies. The standard error corresponding to 100,000,000 is given as 274,000, and the standard error corresponding to 120,000,000 is given as 246,000. Use linear interpolation to find the approximate standard error on month-to-month change corresponding to the level 116,150,000; one method of calculation is given below.

$$246,000 + \left(\frac{120,000,000 - 116,150,000}{120,000,000 - 100,000,000} \right) (274,000 - 246,000) = 251,000$$

Thus, a 90-percent confidence interval for the true month-to-month change would be approximately the interval from 698,000 to 1,502,000.

Use of tables 1-F and 1-G. These tables can be used to find approximate standard errors for a wide range of estimated monthly levels, proportions, rates, and estimates of consecutive monthly change. Instead of displaying standard errors, these tables provide parameters to be used with the formulas given below that allow the user to calculate standard errors.

Table 1-G, which applies to estimates of consecutive monthly change, lists parameters for some characteristics classified by a measure of correlation between monthly estimates. Estimates of the number of persons employed full time, for example, change relatively little from one month to the next, and the two monthly estimates are said to be highly correlated. Consecutive monthly estimates of part-time employment, by contrast, have low correlation, since these estimates are relatively volatile.

Major characteristics for which consecutive monthly estimates are known to have high or low correlation are indicated in table 1-G. Not all categories in table 1-G, however, are broken down into low or high correlation characteristics. When high or low correlation is not specified in table 1-G, the parameters in table 1-G should be selected from the rows labeled "Most characteristics" or from rows not specifying correlation.

Standard errors of estimated levels. The approximate standard error, s_x , of an estimated monthly level, x , can be obtained using the formula below, where a and b are the parameters from table 1-F associated with the particular characteristic. The same formula can be used to approximate the standard error of an estimated month-to-month change in level; simply average the levels for the 2 consecutive months and use the parameters from table 1-G.

$$s_x = \sqrt{ax^2 + bx}$$

Illustration. Assume that in a given month there are an estimated 6 million unemployed men in the civilian labor

force ($x = 6,000,000$). Obtain the appropriate a and b parameters from table 1-F ("Unemployment: Total or white"). Use the formula to compute an approximate standard error on the estimate of 6,000,000.

$$a = -0.000017962 \quad b = 2957.13$$

$$s_x = \sqrt{(-0.000017962)(6,000,000)^2 + (2957.13)(6,000,000)} = 131,000$$

Suppose that in the next month the estimated number of unemployed men increases by 200,000 to 6,200,000. The average of the monthly levels is $x = 6,100,000$. Obtain the appropriate a and b parameters from table 1-G ("Unemployment: Total or white, Total, men, women"). Use the formula to compute an approximate standard error on the estimated change of 200,000.

$$a = -0.000093662 \quad b = 4191.84$$

$$s_x = \sqrt{(-0.000093662)(6,100,000)^2 + (4191.84)(6,100,000)} = 149,000$$

An approximate 90-percent confidence interval for the true month-to-month change would be the interval from -38,000 to 438,000. Because this interval covers zero, one cannot assert at this level of confidence that any real change has occurred in the unemployment level. This result can also be expressed by saying that the apparent change of 200,000 is not significant at a 90-percent confidence level.

Standard errors of estimated percentages and rates. Generally, percentages and rates are not published unless the monthly base (denominator) is greater than 75,000 persons, the quarterly average base is greater than 60,000 persons, or the annual average base is greater than 35,000 persons.

The reliability of an estimated percentage or rate depends upon the magnitude of the percentage or rate and its base. When the numerator and base are in different categories, use the parameters from table 1-F or 1-G relevant to the numerator. The approximate standard error, $s_{y,p}$, of an estimated percentage or rate, p , can be obtained using the following formula, where y is the estimated number of persons in the base.

$$s_{y,p} = \sqrt{\frac{b}{y} p(100 - p)}$$

Illustration. For a given month, suppose that 5,600,000 women, 20 to 24 years of age, are estimated to be employed. Of this total, 1,800,000 or 32 percent are classified as part-time workers. To estimate the standard error on this percentage, proceed as follows. Obtain the parameter $b = 2529.99$ from table 1-F ("Labor force and not-in-labor-force

Table 1-F. Parameters for computation of standard errors for estimates of monthly levels

Characteristic	a	b
Labor force and not-in-labor-force data other than agricultural employment and unemployment:		
Total ¹	-0.000017682	2985.26
Men ¹	-.000032770	2764.05
Women	-.000029553	2529.99
Both sexes, 16 to 19 years	-.000171805	2544.62
White ¹	-.000020028	2984.72
Men	-.000036840	2766.67
Women	-.000033710	2526.82
Both sexes, 16 to 19 years	-.000204195	2549.88
Black	-.000125300	3139.26
Men	-.000302096	2930.79
Women	-.000182509	2637.41
Both sexes, 16 to 19 years	-.001294516	2949.48
Hispanic origin	-.000206380	3895.71
Not in labor force, total or white, excluding women and 16-to-19 year olds	.000005931	828.79
Agricultural employment:		
Total or white	.000782035	3048.57
Men	.000858136	2825.09
Women or both sexes, 16 to 19 years	-.000024885	2582.39
Black	-.000134884	3154.76
Hispanic origin:		
Total or women	.011857446	2894.85
Men or both sexes, 16 to 19 years	.015736341	1702.50
Unemployment:		
Total or white	-.000017962	2957.13
Black	-.000212109	3149.77
Hispanic origin	-.000101820	3576.47

¹ Excludes not-in-labor-force data.

data other than agricultural employment and unemployment: Total, Women"). Apply the formula to obtain:

$$s_{y,p} = \sqrt{\frac{2529.99}{5,600,000}(32)(100-32)} = 1.0 \text{ percent}$$

Suppose that in the next month 5,700,000 women in this same age group are reported employed and that 1,950,000 or 34 percent are part-time workers. To estimate the standard error on the observed month-to-month change of 2 percentage points, first average the values for p and y over the 2 months to get p = 33 percent and y = 5,650,000. Next, obtain the parameter b = 2690.59 from table 1-G ("Labor force and not-in-labor-force data other than agricultural employment and unemployment: Total or white, Women: Low correlation characteristics") and apply the formula as follows.

$$s_{y,p} = \sqrt{\frac{2690.59}{5,650,000}(33)(100-33)} = 1.0 \text{ percent}$$

It should be noted that the numerator of the percentage (part-time employed) determined the choice of correlation. If the example had illustrated percentages of women employed full time, the numerator would have been a high correlation characteristic. Table 1-G, however, does not explicitly list high correlation parameters for employed women; thus, the row labeled "Women, Most characteristics" would have been used.

Had the example dealt with teenage women employed part time, either of two rows in table 1-G could have been applied ("Women: Low correlation characteristics" or "Both sexes, 16 to 19 years"). In situations like this, where it is not clear which row applies, a general rule to follow is to choose the row with the largest b parameter. This gives a more conservative estimate of standard error.

Use of table 1-H. Use this table with table 1-B, 1-C, 1-D, or 1-F to calculate approximate standard errors for quarterly or yearly averages, changes in consecutive quarterly or yearly averages, and consecutive year-to-year changes in monthly estimates. Table 1-H gives factors that can be used to convert standard errors for monthly levels into standard errors for other time periods and changes over time. Follow these three basic steps:

Step 1. Average estimates appropriately. For quarterly estimates, average the 3 monthly estimates. For yearly estimates, average the 12 monthly estimates. For changes in consecutive averages, average over the 2 quarters or 2 years. For consecutive year-to-year changes in monthly estimates, average the 2 months involved.

Step 2. Obtain a standard error on a monthly estimate using table 1-B or 1-C, or apply the procedures for table 1-D or 1-F to the average calculated in step 1, as if the average were an estimate for a single month.

Step 3. Determine the standard error on the average or on the estimate of change. Multiply the result from step 2 by the appropriate factor from table 1-H.

Illustration. Suppose that standard errors are desired for a quarterly average of black employment levels and for the change in averages from 1 quarter to the next. For each successive month of the first quarter, suppose the levels are observed to be 11,500,000, 11,600,000, and 11,700,000.

Step 1. The quarterly average is 11,600,000.

Step 2. Obtain the a and b parameters from table 1-F ("Labor force and not-in-labor-force data other than agricultural employment and unemployment: Black"). Use the

Table 1-G. Parameters for computation of standard errors for estimates of month-to-month change in levels

Characteristic	a	b
Labor force and not-in-labor-force data other than agricultural employment and unemployment:		
Total or white:		
Most characteristics	-0.000012482	2001.12
High correlation characteristics ¹	-.000009288	1564.84
Low correlation characteristics ¹	-.000016162	2550.56
Men:		
Most characteristics	-.000022599	1921.13
High correlation characteristics	-.000016814	1500.99
Low correlation characteristics	-.000058387	2668.56
Women:		
Most characteristics	-.000021229	1689.99
Low correlation characteristics	-.000059785	2690.59
Both sexes, 16 to 19 years	-.000186555	2616.54
Black:		
Most characteristics	-.000098960	2147.36
Low correlation characteristics	-.001928030	6513.82
Men:		
Most characteristics	-.000234427	2280.03
Low correlation characteristics	-.002881467	5829.60
Women:		
Most characteristics	-.000156363	1860.78
Low correlation characteristics	-.002311407	5420.13
Both sexes, 16 to 19 years	-.001288452	3131.77
Hispanic origin:		
Total	-.000157201	2774.53
Civilian labor force and not in labor force	-.000102898	1930.51
Low correlation characteristics	-.002624078	8620.43
Men, civilian labor force and not in labor force	-.000248038	2347.42
Men, 16 years and over; 20 years and over; and both sexes, 16 to 19 years	-.000398909	3615.62
Women, 16 years and over and 20 years and over	-.000338741	2569.69
Agricultural employment:		
Total or white:		
Total	-.000395757	3838.04
Men	-.000672985	3959.25
Women or both sexes, 16 to 19 years	.000130289	2367.00
Black:		
Total or women	-.000122355	2861.72
Men or both sexes, 16 to 19 years	-.019110769	5876.77
Hispanic origin:		
Total or women	.002872129	4640.81
Men or both sexes, 16 to 19 years	.002884390	4028.10
Self-employed	-.000245791	2091.57
Unemployment:²		
Total or white:		
Total, men, women	-.000093662	4191.84
Both sexes, 16 to 19 years and low correlation characteristics	-.000071624	5121.75
Black:		
Total, men, women, and both sexes, 16 to 19 years	-.000414217	4361.16
High correlation characteristics	.000048170	3088.91
Hispanic origin:		
Total, men, women	-.000252897	5054.25
Both sexes, 16 to 19 years and low correlation characteristics	-.000996431	7037.75

¹ High correlation characteristics include employed full-time, manufacturing, service workers, and not in the labor force. Low correlation characteristics include all part-time workers; employed, with a job, but not at work; unpaid family workers; and precision production, craft, and repair occupations.

² High correlation characteristics include full-time jobseekers; job losers; manufacturing workers; and operators, fabricators, and laborers. Low correlation characteristics include part-time jobseekers, reentrants, persons unemployed for less than 5 weeks and from 5 to 14 weeks.

formula for s_x to compute an approximate standard error for a monthly estimate of 11,600,000.

$$a = -0.000125300 \quad b = 3139.26$$

$$s_x = \sqrt{(-0.000125300)(11,600,000)^2 + (3139.26)(11,600,000)} = 140,000$$

Step 3. Multiply this result by the factor .87 from table 1-H (column labeled "Quarterly averages" and row labeled "Labor force and not-in-labor-force data other than agricultural employment and unemployment, Black"). This gives an approximate standard error of 122,000 on the quarterly average of 11,600,000.

Proceed to obtain the approximate standard error on the change in consecutive quarterly average estimates of black employment. Assume that black employment estimates for the months in the second quarter are observed to be 11,100,000, 11,200,000, and 11,300,000.

Step 1. The average for the second quarter is 11,200,000. The average of the 2 quarters is 11,400,000.

Step 2. Obtain the a and b parameters as above and use the formula for s_x to compute an approximate standard error for the estimate of 11,400,000, treating it as an estimate for a single month.

$$s_x = \sqrt{(-0.000125300)(11,400,000)^2 + (3139.26)(11,400,000)} = 140,000$$

Step 3. Multiply this result by the factor .84 from table 1-H (column labeled "Change in quarterly averages" and row labeled "Labor force and not-in-labor-force data other than agricultural employment and unemployment, Black"). This gives an approximate standard error of 118,000 on the estimated change of 400,000 from one quarter to the next.

The estimated change clearly exceeds 2 standard errors; therefore, one could conclude from these data that the change in quarterly averages is significant.

Table 1-H. Factors to be used with tables 1-B, 1-C, 1-D, and 1-F 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	0.92	0.70	0.79	0.70
Women	1.30	.82	.84	.57	.70
Both sexes, 16 to 19 years	1.30	.78	.88	.49	.70
Part time	1.40	.80	.80	.59	.70
Unemployment:					
Total	1.40	.74	.88	.46	.65
Part time	1.40	.67	.88	.42	.54
Labor force and not-in-labor-force data other than agricultural employment and unemployment:					
Total or white	1.30	.87	.85	.65	.70
Black	1.30	.87	.84	.65	.70
Hispanic origin	1.30	.87	.80	.65	.70
Both sexes, 16 to 19 years	1.30	.79	.88	.54	.70
Part time	1.40	.82	.90	.51	.60

Establishment Data ("B" tables)

COLLECTION

BLS cooperates with State employment security agencies in the Current Employment Statistics (CES) or establishment survey to collect data each month on employment, hours, and earnings from a sample of nonfarm establishments (including government). This sample includes about 390,000 reporting units. From these data, a large number of employment, hours, and earnings series in considerable industry and geographic detail are prepared and published each month. Historical statistics are available at <http://stats.bls.gov>, the BLS Internet site.

Each month, the State agencies collect data on employment, payrolls, and paid hours from a sample of establishments. Data are collected by mail from most respondents; phone collection is used to obtain higher response rates from selected respondents through computer-assisted interviews, touch-tone self-response, and voice recognition technology.

The respondents extract the requested data from their payroll records, which must be maintained for a variety of tax and accounting purposes. All firms with 250 employees or more are asked to participate in the survey, as well as a sample of smaller firms.

A "shuttle" schedule (BLS form 790 series) is used for mail respondents. It is submitted each month by the respondents, edited by the State agency, and returned to the respondent for use again the following month.

The technical characteristics of the shuttle schedule are particularly important in maintaining continuity and consistency in reporting from month to month. The shuttle design automatically exhibits the trends of the reported data covered by the schedule during the year; therefore, the relationship of the current data to the data for the previous months is shown. The schedule also has operational advantages. For example, accuracy and economy are achieved by entering the identification codes and the address of the reporter only once a year.

All schedules are edited by the State agencies each month to make sure that the data are correctly reported and that they are consistent with the data reported by the establishment in earlier months and with the data reported by other establishments in the industry. The State agencies forward the data, either on the schedules themselves or in machine-readable form, to BLS-Washington. They also use the information provided on the forms to develop State and area estimates of employment, hours, and earnings. At BLS, the data are edited again by computer to detect processing and reporting errors which may have been missed in the initial State editing; the edited data are used to prepare national estimates.

It should be noted that for employment, the sum of the State figures will differ from the official U.S. national totals because of the effects of differing industrial and geo-

graphic stratification and differences in the timing of benchmark adjustments.

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 (beginning with August 1990 data) and for States and areas (beginning with January 1990 data) are classified in accordance with the *1987 Standard Industrial Classification Manual* (SIC), Office of Management and Budget.

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 day 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 are also 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-6).

These indexes measure the dispersion among industries of the change in employment over the specified time span.

Beginning with August 1990 data, the overall indexes are calculated from 356 seasonally adjusted employment series (3-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 3-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. This category includes 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. This group includes 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. These are 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. This refers to 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 day 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. Employee benefits (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

Hours. These are 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. These are 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 fig-

ures for 1982. 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.

Because overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month. Such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours. 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.

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 plus Amtrak (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees. 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-term 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. These earnings are in constant dollars and 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). The reference year for these series is 1982.

ESTIMATING METHODS

The Current Employment Statistics (CES) or establishment survey estimates of employment are generated through an annual benchmark and monthly sample link procedure. Annual universe counts or benchmark levels are generated primarily from administrative records on employees covered by unemployment insurance (UI) tax laws. These annual benchmarks, established for March of each year, are projected forward for each subsequent month based on the trend of the sample employment, using an estimation procedure called the link relative. Benchmarks and sample link relatives are computed for each of 1,698 basic estimation cells defined by industry, size, and geography for the CES national estimates, and summed to create aggregate level employment estimates.

Benchmarks

The establishment survey constructs annual benchmarks in order to realign the sample-based employment totals for March of each year with the UI-based population counts for March. These population counts are much less timely than sample-based estimates; however, they provide an annual point-in-time census for employment.

Population counts are derived from the administrative file of employees covered by UI. All employers covered by UI laws are required to report employment and wage information to the appropriate State employment security agency four times a year. Approximately 98 percent of in-scope private employment is covered by UI. A benchmark for the remaining 2 percent is constructed from alternate sources, primarily records from the Interstate Commerce Commission and the Social Security Administration. The full benchmark developed for March replaces the March sample-based estimate for each basic cell. The monthly sample-based estimates for the year preceding and the year following the benchmark are also then subject to revision.

Monthly estimates for the year preceding the March benchmark are readjusted using a "wedge back" procedure. The difference between the final benchmark level and the previously published March sample estimate is calculated and spread back across the previous 11 months. The wedge is linear; eleven-twelfths of the March difference is added to the February estimates, ten-twelfths to the January estimates, and so on, back to the previous April estimates which receive one-twelfth of the March difference. This assumes that the total estimation error since the last benchmark accumulated at a steady rate throughout the current benchmark year.

Estimates for the 11 months following the March benchmark are also recalculated each year. These post-benchmark estimates reflect the application of sample-based monthly changes to new benchmark levels for March, and the recomputation of bias adjustment factors for each month. Bias factors are updated to take into account the most recent experience of the estimates generated by the monthly

sample versus the full universe counts derived from the UI.

Following the revision of basic employment estimates, all other derivative series (e.g., production workers, average hourly earnings) are also recalculated. New seasonal adjustment factors are calculated and all data series, usually for the previous 5 years, are reseasonally adjusted, prior to full publication of all revised data in June of each year.

Monthly estimation

Estimates are derived from a sample of approximately 390,000 business establishments nationwide. A current month's estimate is derived as the product of the previous month's estimate and a sample link relative for the current month. A bias adjustment factor is then applied to this result primarily to help account for new business births during the month.

Stratification. The sample is stratified into 1,698 basic estimation cells for purposes of computing national employment, hours, and earnings estimates. Cells are defined primarily by detailed industry, and secondarily by size for a majority of cells. In a few industries, mostly within the construction division, geographic stratification is also used. Industry classification is in accordance with the *1987 Standard Industrial Classification Manual* (SIC); most estimation cells are defined at the 4-digit SIC level.

This detailed stratification pattern allows for the production and publication of estimates in considerable industry detail. Sub-industry stratification by size is important because major statistics which the survey measures, particularly employment change and average earnings, often vary significantly between establishments of different size. Stratification reduces the variance of the published industry level estimates.

Link relative technique. A ratio of the previous to the current month's employment is computed from a sample of establishments reporting for both months—this ratio is called a "link relative." For each basic cell, a link relative is computed and applied to the previous month's employment estimate to derive the current month's estimate. Thus a March benchmark is moved forward to the next March benchmark through application of monthly link relatives. Basic cell estimates created through the link relative technique are aggregated to form published industry level estimates, for employment, as described in table 2-A. Basic estimation and aggregation methods for the hours and earnings data are also shown in table 2-A.

Bias adjustment. Bias adjustment factors are computed at the 3-digit SIC level, and applied each month at the basic cell level, as part of the standard estimation procedures. The main purpose of bias adjustment is to reduce a primary source of nonsampling error in the survey, the inability to capture, on a timely basis, employment generated by new firm births. There is a several month lag between an

Table 2-A. 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 adjustments 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.

establishment opening for business and its appearing on the UI universe frame and being available for sampling. Because new firms generate a portion of employment growth each month of the year, nonsampling methods must be used to capture this growth, otherwise substantial under estimation of total employment levels would occur. Formal bias adjustment procedures have been used by the establishment survey since the late 1960s. Prior to the 1983 benchmark, bias adjustments were derived from a simple mean error model, which averaged undercount errors for the previous 3 years to arrive at bias projections for the coming year. The undercount errors were measured as the difference between sample-based estimate results and benchmark levels.

This procedure eventually proved inadequate during periods of rapidly changing employment trends, and the bias adjustment methodology was revised. Research done in the early 1980's indicated that bias requirements were strongly correlated with current employment growth or decline. Based on this research, a revised method was developed which incorporated the sample data on employment growth over the most recent two quarters, and a regression-derived coefficient for the significance of that change, to adjust the mean error model results. This change in methodology provided a more cyclically sensitive bias model. The regression-adjusted mean error model has been in use since 1983, for the production of national estimates.

The current model still has limitations in its ability to react to changing economic conditions or changing error structure relationships between the sample-based estimates and the UI universe counts. A principal limitation is the inability to incorporate UI universe counts as they become available on an ongoing basis, with a 6- to 9-month lag from the reference period. Thus, the current quarterly outputs from the model are subject to intervention analysis, and adjustments can be made to its results, prior to the establishment of final bias levels for a quarter. Review is done primarily in terms of detection of outlier (i.e., abnormally high or low) values, and by comparison of CES sample and bias trends with the most recent quarterly observations of UI universe counts. The BLS currently has under study improved bias models using a Kalman filter technique, which would allow a more formal, structured incorporation of each quarter's UI universe counts in the bias modeling process.

Although the primary function of bias adjustment is to account for employment resulting from new business formations, it also adjusts for other elements of nonsampling error in the survey, because the primary input to the modeling procedure is total estimation error. Significant among these nonsampling error sources is a business death bias. When a sampled firm closes down, most often it simply does not respond to the survey that month, rather than reporting zero employment. Followup with nonrespondents may reveal an out-of-business firm, but this information is often received too late to incorporate into monthly esti-

mates, and the firm is simply treated as a nonrespondent for that month.

Because the bias adjustments incorporated into the estimates represent a composite of a birth bias, death bias, and a number of other differences between the sample-based estimates and the population counts, the monthly bias adjustment levels have no specific economic meaning in and of themselves.

Table 2-B summarizes bias adjustments for the 1988-98 period. The table displays the average monthly "bias added" and the average monthly "bias required" with the benchmark revisions for each year. Bias added shows the average amount of bias which was added each month over the course of an interbenchmark period. For example, the bias added for 1998 is listed as 150,000; this represents the average of bias adjustments made each month over the period April 1997 through March 1998. Bias required is computed retrospectively, after the March benchmark for a given year is known. Bias required figures are calculated by taking the difference between a March estimate derived purely from the sample (i.e., a series calculated without bias adjustment) and the March benchmark. Dividing this figure by 12 gives the average monthly bias required figure. The bias required is thus defined as the amount of bias adjustment which would have achieved a zero benchmark error. The difference between the total bias required and the total bias added is then, by definition, approximately the benchmark revision amount, for any given year. Also provided in the table for illustration, are the March-to-March changes. As discussed above, the over-the-year changes indicate correlation with the bias added and bias required figures.

THE SAMPLE

Design

The emphasis in the establishment survey is on producing timely data at minimum cost. Therefore, the primary goal of its design is to sample a sufficiently large segment of the universe to provide reliable estimates that can be published both promptly and regularly. The present sample allows BLS to produce preliminary total nonfarm employment estimates for each month, including some limited industry detail, within 3 weeks after the reference period, and data in considerably more detail with an additional 1-month lag.

The CES survey, which began over 50 years ago, predates the introduction of probability sampling methods and has operated as a quota sample since its inception.

The sampling plan used is a form of sampling with probability proportionate to size, known as "sampling proportionate to average size of establishment". This is an optimum allocation design among strata because sampling variance is proportional to the average size of establishments. The universe of establishment employment is highly skewed, with a large percentage of total employment concentrated in relatively few establishments. Because vari-

ance on a population total estimate is a function of percentage universe coverage achieved by the sample, it is efficient to sample larger establishments at a higher rate than smaller establishments, assuming the cost per sample unit is fairly constant across size classes.

Under the survey design, large establishments fall into a certainty strata for sample selection. The size of the sample for the various industries is determined empirically on the basis of experience and cost considerations. For example, in a manufacturing industry with a high proportion of total employment concentrated in a small number of 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 a relatively few chosen from among the smaller establishments. For an industry in which a large proportion of total employment is concentrated in small establishments, the sample design again calls for inclusion of all large establishments but also for a more substantial number of smaller 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 have a sample design for these industries with a smaller proportion of total universe coverage than is the case for most manufacturing industries.

Coverage

The establishment survey is the largest monthly sampling operation in the field of social statistics. Table 2-C shows the latest benchmark employment levels and the approximate proportion of total universe employment coverage, at the total nonfarm and major industry division levels. The coverage for individual industries within the divisions may vary from the proportions shown.

Reliability

The establishment survey, like other sample surveys, is subject to two types of error, sampling and nonsampling error. The magnitude of sampling error, or variance, is directly related to the size of the sample and the percentage of universe coverage achieved by the sample. The establishment survey sample covers over one-third of total universe employment; this yields a very small variance on the total nonfarm estimates. Measurements of error associated with sample estimates are provided in tables 2-D through 2-G.

Benchmark revision as a measure of survey error. The sum of sampling and nonsampling error can be considered total survey error. Unlike most sample surveys which publish sampling error as their only measure of error, the CES can derive an annual approximation of total error, on a lagged basis, because of the availability of the independently derived universe data. While the benchmark error is used as a measure of total error for the CES survey estimate, technically, it actually represents the difference between two independent estimates derived from separate survey processes (i.e., the CES sample process and the UI universe process) and thus reflects the errors present in each program. Historically, the benchmark revision has been very small for total nonfarm employment. Over the past decade, percentage benchmark error has averaged 0.3 percent, with a range from zero to 0.7 percent. Table 2-D shows the most current benchmark revisions, along with 10-year mean revisions and mean absolute revisions for major industries. Mean revisions give an indication of bias in the estimates; unbiased estimates have a mean revision close to zero, as over and under estimations cancel out over time. Mean absolute revisions give an overall indicator as to the accuracy

Table 2-B. March employment benchmarks and bias adjustments for total private industries, March 1988-98
(In thousands)

Year	Benchmark		Average monthly bias		Over-the-year employment change ⁵
	Employment ¹	Revision ²	Added ³	Required ⁴	
1988	86,180	-310	114	88	3,007
1989	89,015	-93	131	123	2,835
1990	90,546	-261	85	63	1,531
1991	88,790	-583	61	12	-1,756
1992	88,347	-130	33	22	-443
1993	89,790	288	83	107	1,443
1994	92,730	688	115	171	2,940
1995	96,175	511	144	187	3,445
1996	98,158	72	129	135	1,983
1997	101,040	518	130	173	2,882
1998	103,965	85	150	157	2,925

¹ Universe counts for March of each year are used to make annual benchmark adjustments to the employment estimates. About 98 percent of the benchmark employment is from unemployment insurance administrative records, and the remaining 2 percent is from alternate sources. Data represent benchmark levels as originally computed.

² Difference between the final March sample-based estimate and the benchmark level for total private employment.

³ The average amount of bias adjustment each month over the

course of an inter-benchmark period, i.e., from April of the prior year through March of the given year.

⁴ The difference between the March benchmark and the March estimate derived solely from the sample without bias adjustment, converted to a monthly amount by dividing by 12.

⁵ March-to-March changes in the benchmark employment level.

NOTE: Data in this table exclude government employment because there is no bias adjustment for this sector.

of the estimates; the larger the value, the further the estimate was from the final benchmark level.

Estimated standard errors for employment, hours, and earnings. The hours and earnings estimates for the basic estimating cells do not have universe data sources available and therefore are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. Like the employment estimates, the hours and earnings estimates are also subject to sampling and nonsampling errors. Estimates of the sampling error for employment, hours, and earnings were computed using the method of random groups and are expressed as relative standard errors (standard error divided by the estimate). Relative standard errors for individual industries with the specified number of employees are presented in table 2-E and for major industries in table 2-F. Multiplying the relative standard error by its estimated value gives the estimate of the standard error. The errors presented here are based on averages observed from sample data over the March 1994 through March 1995 period.

Standard errors for differences between industries and times. The standard error of a difference is required to test for significant differences between estimates from two different industries. Since the estimates for the two industries are independent, the standard error of a difference is the square root of the sum of the estimated variance of each estimate, S_1^2 and S_2^2 .

$$S \text{ difference} = \sqrt{s_1^2 + s_2^2}$$

The CES sample overlaps almost entirely from month to month, so monthly estimates are not independent. The covariance between these estimates must be accounted for when testing the significance of the change in estimates over time. The standard error of the change can be estimated as follows.

$$S \text{ change} = \sqrt{s_1^2 + s_2^2 - 2\rho s_1 s_2}$$

If $S_1 = S_2$, then:

$$S \text{ change} = \sqrt{2s_1^2(1 - \rho)}$$

Conservative estimates of ρ after one month are 0.8 for employment, 0.6 for average weekly hours, and 0.8 for average hourly earnings.

If the bias is small, then the standard error can be used to construct approximate confidence intervals or range of values that include the true population value. If the process

of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for each sample, then approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the true population value.

Noneconomic code changes. A major source of benchmark revision at the major industry division level and below are noneconomic code changes, which are introduced into the universe data in the first quarter of each calendar year.

Approximately one-third of all establishments in the universe are included in the universe program's annual Standard Industrial Classification (SIC) refiling survey. Corrections to individual establishments' SIC and ownership codes are made through this process. The volume of these corrections has often been quite large and had substantial effects on universe employment distributions at the industry levels, but effects on total nonfarm employment have been minimal. In 1999, BLS and its State partners completed a multi-year conversion to a new refiling schedule, which uses a random selection method to target one-third

Table 2-C. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1998

Industry	Bench- marks (thou- sands)	Sample coverage ¹		
		Number of establish- ments	Employees	
			Number (thou- sands)	Percent of bench- marks
Total	124,050	304,495	42,498	34
Mining	592	2,853	212	36
Construction	5,474	24,798	994	18
Manufacturing	18,805	51,168	8,287	44
Transportation and public utilities	6,497	² 15,925	2,071	32
Wholesale trade ..	6,742	23,106	1,072	16
Retail trade	21,724	56,653	4,469	21
Finance, insurance, and real estate ...	7,269	21,510	1,981	27
Services	36,862	72,329	8,057	22
Government:				
Federal	2,662	³ 7,566	2,662	100
State	4,702	8,140	4,004	85
Local	12,721	20,447	8,689	68

¹ Counts reflect reports used in final estimates. Because 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 plus Amtrak. Hours and earnings estimates are derived from a sample.

³ Total Federal employment counts by agency 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 reports covering about 62 percent of employment in Federal establishments.

Table 2-D. **Current (March 1998) and historical benchmark revisions**

(Numbers in thousands)

Industry	March 1998 benchmark revision		10-year average mean percent revision	
	Level	Percent	Actual	Absolute
Total	44	(1)	0.1	0.3
Total private	85	0.1	.1	.3
Goods-producing	91	.4	.2	.7
Mining	15	2.5	-.2	1.8
Metal mining	0	0	-1.9	3.1
Coal mining	1	1.1	-.7	2.5
Oil and gas extraction	14	4.1	.3	2.5
Nonmetallic minerals, except fuels	1	1.0	-.4	1.6
Construction	15	.3	-.2	1.1
General building contractors	-22	-1.7	-.6	2.4
Heavy construction, except building	12	1.7	.9	2.1
Special trade contractors	25	.7	-.2	1.0
Manufacturing	61	.3	.3	.7
Durable goods	75	.7	.4	.8
Lumber and wood products	9	1.1	.2	1.8
Furniture and fixtures	7	1.3	.5	1.1
Stone, clay, and glass products	1	.2	.3	.7
Primary metal industries	0	0	.1	.7
Blast furnaces and basic steel products	-1	-.4	.7	1.1
Fabricated metal products	12	.8	.4	.6
Industrial machinery and equipment	14	.6	.3	1.0
Computer and office equipment	4	1.0	.3	1.3
Electronic and other electrical equipment	6	.3	.2	.7
Electronic components and accessories	-6	-.9	.4	1.6
Transportation equipment	11	.6	1.0	1.0
Motor vehicles and equipment	1	.1	1.2	1.2
Aircraft and parts	1	.2	.9	1.4
Instruments and related products	9	1.0	(1)	1.6
Miscellaneous manufacturing	7	1.8	.4	1.5
Nondurable goods	-14	-.2	.2	.7
Food and kindred products	-18	-1.1	.2	.9
Tobacco products	0	0	-.2	3.4
Textile mill products	1	.2	.1	.9
Apparel and other textile products	-6	-.8	.3	1.4
Paper and allied products	-7	-1.0	.4	.7
Printing and publishing	-1	-.1	-.2	.8
Chemicals and allied products	6	.6	.1	.9
Petroleum and coal products	5	3.6	.2	1.7
Rubber and miscellaneous plastics products	3	.3	1.0	1.1
Leather and leather products	1	1.2	.1	2.2
Service-producing	-47	(1)	.1	.3
Transportation and public utilities	41	.6	-.2	1.0
Transportation	54	1.3	-.4	1.5
Railroad transportation	-1	-.4	-1.0	1.0
Local and interurban passenger transit	5	1.0	-.4	2.1
Trucking and warehousing	31	1.8	-1.6	3.0
Water transportation	-6	-3.5	.4	3.5
Transportation by air	19	1.6	2.2	5.2
Pipelines, except natural gas	0	0	-.6	4.2
Transportation services	6	1.3	-.8	2.8
Communications and public utilities	-13	-.6	.2	1.1
Communications	-13	-.9	.3	1.8
Electric, gas, and sanitary services	0	0	-.1	.7
Wholesale trade	-2	(1)	-.3	1.1
Durable goods	-25	-.6	-.3	1.3
Nondurable goods	23	.8	-.3	1.0

See footnotes at end of table.

Table 2-D. Current (March 1998) and historical benchmark revisions—Continued

(Numbers in thousands)

Industry	March 1998 benchmark revision		10-year average mean percent revision	
	Level	Percent	Actual	Absolute
Retail trade	-99	-0.5	0.3	0.6
Building materials and garden supplies	-25	-2.8	-.3	1.6
General merchandise stores	-55	-2.1	1.8	2.9
Department stores	-29	-1.3	2.5	3.4
Food stores	-57	-1.7	-.4	.9
Automotive dealers and service stations	-10	-.4	-1.2	1.2
New and used car dealers	-16	-1.5	-1.0	1.0
Apparel and accessory stores	34	3.1	.9	1.4
Furniture and home furnishings stores	-32	-3.2	-.8	1.5
Eating and drinking places	77	1.0	.9	1.3
Miscellaneous retail establishments	-33	-1.2	-.1	1.0
Finance, insurance, and real estate	56	.8	-.2	1.2
Finance	34	1.0	-.6	1.3
Depository institutions	0	0	-1.1	1.4
Commercial banks	8	.5	-.5	.9
Savings institutions	-6	-2.3	-3.5	5.8
Nondepository institutions	33	5.2	1.9	3.3
Mortgage bankers and brokers	33	10.7	2.9	5.9
Security and commodity brokers	-3	-.5	.2	1.1
Holding and other investment offices	5	2.1	-3.0	4.8
Insurance	14	.6	.4	1.4
Insurance carriers	11	.7	.5	1.6
Insurance agents, brokers, and service	3	.4	.3	1.1
Real estate	8	.6	-.4	1.5
Services ²	-2	(1)	.1	.6
Agricultural services	-2	-.3	1.5	1.7
Hotels and other lodging places	5	.3	.7	1.2
Personal services	13	1.0	.9	1.3
Business services	15	.2	.5	1.8
Services to buildings	-23	-2.5	.4	1.3
Personnel supply services	53	1.7	1.4	3.3
Help supply services	34	1.2	1.9	2.9
Computer and data processing services	-4	-.3	.5	2.5
Auto repair, services, and parking	-15	-1.3	-1.3	1.6
Miscellaneous repair services	-6	-1.6	-1.3	4.7
Motion pictures	8	1.4	-1.6	3.8
Amusement and recreation services	-66	-4.6	.3	3.1
Health services	-53	-.5	-.7	.8
Offices and clinics of medical doctors	-12	-.7	-.9	1.5
Nursing and personal care facilities	5	.3	-.5	.8
Hospitals	-27	-.7	-.8	.8
Home health care services	-7	-1.0	1.2	2.6
Legal services	-9	-.9	-.9	1.0
Educational services	-33	-1.4	.7	2.6
Social services	12	.5	-.3	1.5
Child day care services	21	3.4	-2.2	5.0
Residential care	-4	-.5	-.2	1.3
Museums and botanical and zoological gardens	1	1.1	1.8	2.4
Membership organizations	91	3.9	2.4	3.0
Engineering and management services	-54	-1.7	-.1	1.5
Engineering and architectural services	-12	-1.4	-.6	1.1
Management and public relations	-16	-1.6	.5	3.1
Services, nec	-1	-2.0	1.4	2.8
Government	-41	-.2	(1)	.3
Federal	0	0	0	0
Federal, except Postal Service	0	0	0	0
State	-39	-.8	.1	.6
Education	-25	-1.2	.2	1.2
Other State government	-14	-.5	.1	.5
Local	-2	(1)	(1)	.2
Education	16	.2	(1)	.3
Other local government	-18	-.3	(1)	.4

¹ Less than 0.05 percent.² Includes other industries, not shown separately.

Table 2-E. **Relative standard errors¹ for estimates of employment, hours, and earnings**
(In percent)

Size of employment estimate	Employment	Average weekly hours	Average hourly earnings
50,000	1.4	1.9	3.2
100,000	1.1	1.5	2.6
200,000	.8	1.2	2.2
500,000	.6	.9	1.7
1,000,000	.4	.7	1.3
2,000,000	.3	.6	1.1

¹ Relative errors were estimated with sample data from March 1994-March 1995.

Table 2-F. **Relative standard errors¹ for estimates of employment, hours, and earnings by industry**
(In percent)

Industry	Employment	Average weekly hours	Average hourly earnings
Total private	0.1	0.1	0.2
Mining	.8	.6	1.1
Construction	.4	.1	.3
Manufacturing	.1	.1	.4
Durable goods	.1	.1	.5
Nondurable goods	.1	.1	.5
Transportation and public utilities	.3	.5	1.0
Wholesale trade	.2	.2	.4
Retail trade	.1	.1	.3
Finance, insurance, and real estate	.2	.2	.7
Services	.2	.2	.4

¹ Relative errors were estimated with sample data from March 1994-March 1995.

of all UI universe units for refiling in a given year. Previously, refiling procedures called for each major industry division to be refiled every third year. The refiling schedule refinement was made because of large benchmark revisions and corresponding distortions in over-the-year employment trend measurement for specific industries.

Revisions between preliminary and final data. First preliminary estimates of employment, hours, and earnings, based on less than the total sample, are published immedi-

ately following the reference month. Final revised sample-based estimates are published 2 months later when nearly all the reports in the sample have been received. Table 2-G presents the root-mean-square error, the mean percent, and the mean absolute percent revision that may be expected between the preliminary and final employment estimates.

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, at the total private nonfarm level, and may be slightly larger for the more detailed industry groupings.

STATISTICS FOR STATES AND AREAS (Tables B-7, B-14, and B-18)

As explained earlier, State agencies in cooperation with BLS collect and prepare State and area employment, hours, and earnings data. These statistics are based on the same establishment reports used by BLS, however, BLS uses the full CES sample to produce monthly national employment estimates, while each State agency uses its portion of the sample to independently develop a State employment estimate.

The CES area statistics relate to metropolitan areas. 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.

Caution in aggregating State data. The national estimation procedures used by BLS are designed to produce accurate national data by detailed industry; correspondingly the State estimation procedures are designed to produce accurate data for each individual State. State estimates are not forced to sum to national totals nor vice versa. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause distortions at an aggregate level. This has been a particular problem at turning points in the U.S. economy, when the majority of the individual State errors tend to be in the same direction. Due to these statistical limitations, the Bureau does not compile or publish a "sum-of-States" employment series. Additionally, BLS cautions users that such a series is subject to a relatively large and volatile error structure, particularly at turning points.

Table 2-G. Errors of preliminary employment estimates

Industry	Root-mean-square error of monthly level ¹	Mean percent revision	
		Actual	Absolute
Total	57,900	0	0
Total private	47,800	0	0
Goods-producing	13,900	0	0
Mining	1,800	0	0.2
Metal mining	300	-0.1	.4
Coal mining	700	.2	.6
Oil and gas extraction	1,700	-.1	.4
Nonmetallic minerals, except fuels	300	.1	.2
Construction	8,100	.1	.1
General building contractors	4,100	.1	.3
Heavy construction, except building	3,300	.1	.3
Special trade contractors	5,000	0	.1
Manufacturing	9,500	0	0
Durable goods	6,400	0	0
Lumber and wood products	1,300	.1	.1
Furniture and fixtures	1,200	0	.2
Stone, clay, and glass products	1,200	0	.2
Primary metal industries	1,700	0	.2
Blast furnaces and basic steel products	1,300	0	.3
Fabricated metal products	2,200	0	.1
Industrial machinery and equipment	2,600	.1	.1
Computer and office equipment	1,800	.3	.4
Electronic and other electrical equipment	2,200	0	.1
Electronic components and accessories	1,400	0	.2
Transportation equipment	4,200	0	.2
Motor vehicles and equipment	3,600	.1	.3
Aircraft and parts	1,600	0	.2
Instruments and related products	1,600	0	.1
Miscellaneous manufacturing	900	.1	.2
Nondurable goods	4,800	0	.1
Food and kindred products	2,700	0	.1
Tobacco products	500	.6	1.0
Textile mill products	1,200	0	.2
Apparel and other textile products	2,700	.1	.2
Paper and allied products	1,100	0	.1
Printing and publishing	1,700	0	.1
Chemicals and allied products	1,700	-.1	.1
Petroleum and coal products	1,000	-.1	.4
Rubber and miscellaneous plastics products	1,400	0	.1
Leather and leather products	600	0	.4
Service-producing	54,500	0	0
Transportation and public utilities	9,800	-.1	.1
Transportation	9,400	-.1	.2
Railroad transportation	2,100	-.1	.7
Local and interurban passenger transit	3,700	-.2	.5
Trucking and warehousing	5,800	-.1	.2
Water transportation	1,400	-.3	.7
Transportation by air	6,400	-.1	.4
Pipelines, except natural gas	200	-.2	.7
Transportation services	1,100	-.1	.2
Communications and public utilities	4,100	.1	.1
Communications	3,800	.1	.2
Electric, gas, and sanitary services	1,600	0	.1
Wholesale trade	7,600	.1	.1
Durable goods	4,300	.1	.1
Nondurable goods	4,800	.1	.1

See footnotes at end of table.

Table 2-G. Errors of preliminary employment estimates—Continued

Industry	Root-mean-square error of monthly level ¹	Mean percent revision	
		Actual	Absolute
Retail trade	31,100	0	0.1
Building materials and garden supplies	2,800	0	.2
General merchandise stores	19,400	.1	.5
Department stores	18,500	.1	.6
Food stores	5,800	0	.1
Automotive dealers and service stations	3,000	-.1	.1
New and used car dealers	1,200	-.1	.1
Apparel and accessory stores	5,700	.1	.4
Furniture and home furnishings stores	3,100	0	.2
Eating and drinking places	9,400	0	.1
Miscellaneous retail establishments	7,900	.1	.2
Finance, insurance, and real estate	6,200	0	.1
Finance	3,800	0	.1
Depository institutions	2,500	-.1	.1
Commercial banks	2,100	-.1	.1
Savings institutions	1,100	-.1	.3
Nondepository institutions	1,500	0	.2
Mortgage bankers and brokers	1,100	.1	.4
Security and commodity brokers	1,100	0	.2
Holding and other investment offices	1,700	0	.5
Insurance	2,700	0	.1
Insurance carriers	2,400	0	.1
Insurance agents, brokers, and service	1,200	.1	.1
Real estate	2,800	0	.2
Services ²	28,700	0	.1
Agricultural services	2,700	.1	.3
Hotels and other lodging places	6,000	.1	.2
Personal services	5,800	-.1	.3
Business services	12,300	.1	.1
Services to buildings	2,500	0	.2
Personnel supply services	10,500	.1	.3
Help supply services	10,300	.1	.3
Computer and data processing services	2,800	0	.2
Auto repair, services, and parking	2,000	0	.1
Miscellaneous repair services	1,000	0	.2
Motion pictures	6,200	.1	.8
Amusement and recreation services	9,400	.2	.5
Health services	5,500	0	0
Offices and clinics of medical doctors	2,500	0	.1
Nursing and personal care facilities	1,600	0	.1
Hospitals	3,300	0	.1
Home health care services	2,000	.1	.3
Legal services	1,400	0	.1
Educational services	12,600	.1	.5
Social services	9,700	0	.3
Child day care services	4,400	.1	.6
Residential care	1,400	-.1	.2
Museums and botanical and zoological gardens	600	0	.5
Membership organizations	3,200	0	.1
Engineering and management services	5,100	0	.1
Engineering and architectural services	2,300	-.1	.2
Management and public relations	3,400	.1	.3
Services, nec	500	.1	.8
Government	19,500	0	.1
Federal	8,300	.1	.2
Federal, except Postal Service	7,600	0	.3
State	11,800	0	.2
Education	9,900	0	.4
Other State government	4,800	0	.1
Local	16,800	0	.1
Education	14,200	0	.1
Other local government	11,300	0	.1

¹ The root-mean-square error is the square root of the mean squared error. The mean squared error is the square of the difference between the final and preliminary estimates averaged across a series of monthly observations.

² Includes other industries, not shown separately.

NOTE: Errors are based on differences from January 1994 through December 1998.

Region, State, and Area Labor Force Data ("C" tables)

FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMAs), 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 derive 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 Partnership Act.

Annual average data for the States and 334 areas shown in table C-3 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 6,500 areas, including nearly 2,400 LMAs, counties, and cities with a population of 25,000 or more. Regional aggregations are derived by summing the State estimates. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. At the sub-LMA (county and city) level, estimates are prepared using disaggregation techniques based on decennial and annual population estimates and current unemployment insurance data. 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. Effective January 1996, civilian labor force and unemployment estimates for all States and the District of Columbia are produced using models based on a "signal-plus-noise" approach. The model of the

signal is a time series model of the true labor force which consists of three components: A variable coefficient regression, a flexible trend, and a flexible seasonal component. 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 Current Population Survey (CPS), the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. The noise component of the models explicitly accounts for auto correlation in the CPS sampling error and changes in the average magnitude of the error. In addition, the models can identify and remove the effects of outliers in the historical CPS series. While all the State models have important components in common, they differ somewhat from one another to better reflect individual State characteristics.

Two models—one for the employment-to-population ratio and one for the unemployment rate—are used for each State. The employment-to-population ratio, rather than the employment level, and the unemployment rate, rather than the unemployment level, are estimated primarily because these ratios are usually more meaningful for economic analysis.

The employment-to-population ratio models use the relationship between the State's monthly employment from the CES and the CPS. The models also include trend and seasonal components to account for movements in the CPS not captured by the CES series. The seasonal component accounts for the seasonality in the CPS not explained by the CES, while the trend component adjusts for long-run systematic differences between the two series.

The unemployment rate models use the relationship between the State's monthly unemployment insurance (UI) claims data and the CPS unemployment rate, along with trend and seasonal components.

In both the employment-to-population ratio 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 regression portion of the model includes 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, levels are calculated for employment, unemployment, and labor force.

Benchmark correction procedures. Once each year, monthly estimates for all States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a pro-

cedure (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.

Estimates for sub-State areas

Monthly labor force, employment, and unemployment estimates for two large sub-State areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained using the same modeling approach as for states. Estimates for the nearly 2,400 remaining LMAs, are prepared through indirect estimation techniques, described below.

Preliminary estimate—employment. The total civilian employment estimates are based largely 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 on the basis of employment relationships at the time of the 1990 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—agricultural employees, 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 two categories: (1) Persons who were previously employed in industries covered by State UI laws; and (2) 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 all LMAs within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment is applied to all sub-State preliminary LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment. For California and New York, the proportional adjustment is applied to all LMAs other than the two modeled areas, to ensure that the LMA estimates sum to an independent model-based estimate for the balance of State.

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 UI claims counts, and updated historical relationships. The updated estimates are then re-adjusted 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 non-seasonal 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, because 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*.

Household data

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.

BLS uses an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter.

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, usually 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. In 1994, data were

revised only for that year because of the major redesign and 1990 census-based population controls, adjusted for the estimated undercount, introduced into the Current Population Survey. In 1996, 1990-93 data also were revised to incorporate these 1990 census-based population controls and seasonally adjusted series were revised back to 1990. Subsequent revisions are only carried back to 1994.

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 and four seasonally adjusted unemployment components. The total for unemployment is the sum of the four unemployment components, and the 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.

In each January issue (March issue in 1996), *Employment and Earnings* publishes 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 estimate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure.

Establishment data

Effective in June 1996, with the release of the March 1995 benchmark revisions, BLS began using an updated version of the X-12 ARIMA software developed by the Bureau of the Census to seasonally adjust national establishment-based employment, hours, and earnings series.

The conversion to X-12 ARIMA allows BLS to refine its seasonal adjustment procedures to control for survey interval variations, sometime referred to as the 4- vs. 5-week effect. While the CES survey is referenced to a consistent concept, the pay period including the 12th day of the month, inconsistencies arise because there are variations of 4 or 5 weeks between the week of the 12th in any given pair of months. In highly seasonal months and industries, this variation can be an important determinant of the magnitude of seasonal hires or layoffs that have occurred at the time the survey is taken, thereby complicating seasonal adjustment.

The interval effect adjustment is accomplished through the REGARIMA (regression with auto-correlated errors) option in the X-12 software. This process combines standard regression analysis, which measures correlations between two or more variables, with ARIMA modeling, which describes and predicts the behavior of a data series based on its own past history. In this application, the correlations of interest are those between employment levels in individual calendar months and the length of the survey intervals for those months. The REGARIMA models estimate and remove the variation in employment levels attributable to 11 separate survey intervals, one specified for each month, except March. March is excluded because there are always 4 weeks between the February and March surveys.

Effective with the release of the March 1997 benchmarks, seasonally adjusted series for employment, hours, indexes of aggregate hours, and earnings of production or nonsupervisory workers from 1989 forward incorporate refinements to the seasonal adjustment process to correct for distortions related to the method of accounting for the varying length of payroll periods across months—a calendar effect.

REGARIMA modeling also is used to identify, measure, and remove this calendar effect for the publication level seasonally adjusted hours and earnings series.

Projected seasonal factors for the establishment-based series are calculated and published twice a year, paralleling the procedure used for the household series. Revisions to historical data (usually the most recent 5 years) are made once a year, coincident with benchmark revisions. All series are seasonally adjusted using multiplicative models in X-12; additive models are not considered. Seasonal adjustment factors are computed and applied at component levels. For employment series, these are generally the 2-digit SIC levels. Seasonally adjusted totals are arithmetic aggregations for employment series and weighted averages of the seasonally adjusted data for hours and earnings series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing the average weekly earnings series 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 by production or nonsupervisory workers and dividing by the 1982 annual average 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 for the appropriate component industries and dividing by the 1982 annual average 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

series, however, are used in the aggregation to higher 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 workers for the decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

The standard procedure for seasonal adjustment for the local education employment series was improved with the 1997 benchmark. In the past, the seasonal factors for this industry were derived using the standard seasonal adjustment procedure of a logarithmic transformation of the data as input for the multiplicative decomposition of the series. However, in recent years, the forecasted seasonal factors have failed to adequately reflect the changing behavior of this industry in the summer months. The factors for this industry are now derived using a square-root transformation of the data as input for an additive decomposition of the series. These modifications produce seasonal factors that better reflect current industry seasonal patterns. However, the annual averages of seasonally adjusted and unadjusted series will not be equal.

BLS also makes special adjustments for floating holidays for the establishment-based series on average weekly hours and manufacturing overtime hours. From 1988 forward, these adjustments are now accomplished as part of the X-12 ARIMA/REGARIMA modeling process. The special adjustment made in November each year to adjust for the effect of poll workers in the local government employment series also is incorporated into the X-12 process from 1988 forward.

Revised seasonally adjusted national establishment-based series based on the experience through March 1999, new seasonal adjustment factors for March-October 1999, and a description of the current seasonal adjustment procedure appear in the June 1999 issue of *Employment and Earnings*. Revised factors for the September 1999-April 2000 period will appear in the December issue.

Beginning in 1993, BLS introduced publication of seasonally adjusted nonfarm payroll employment data by major industry for all States and the District of Columbia (table B-7). Seasonal adjustment factors are applied directly to the employment estimates at the division level (component series for manufacturing and trade) and then aggregated to the State totals. The recomputation of seasonal factors and historical revisions are made coincident with the annual benchmark adjustments. State estimation procedures are designed to produce accurate (unadjusted and seasonally adjusted) data for each individual State. BLS independently develops a national employment series; State estimates are not forced to sum to national totals. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause significant distortions at an aggregate level. Due to these statistical limitations, BLS

does not compile a “sum-of-States” employment series, and cautions users that such a series is subject to a relatively large and volatile error structure.

Region and State labor force data

Beginning in 1992, BLS introduced publication of seasonally adjusted labor force data for the census regions and divisions, the 50 States, and the District of Columbia (tables C-1 and C-2). Beginning in 1998, regional aggregations are derived by summing the State estimates. Using the X-11

ARIMA procedure, seasonal adjustment factors are computed and applied independently to the component employment and unemployment levels and then aggregated to regional or State totals. Current seasonal adjustment factors are produced for 6-month periods twice a year. Historical revisions usually are made at the beginning of each calendar year. Because of the separate processing procedures, totals for the Nation, as a whole, differ from the results obtained by aggregating regional or State data.

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INDEX TO STATISTICAL TABLES

TABLE KEY: A: Monthly household data; B: Monthly national and State and area establishment data; C: Monthly regional, State, and area labor force data; D: Quarterly, household data only, in the January, April, July, and October issues. Annual averages: Household data in the January issue; national establishment data in the January, March, and June issues; State and area establishment and labor force data in the May issue. For additional information see the listing on the inside front cover of this publication.

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