

U.S. DEPARTMENT OF LABOR

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January 1999 Vol. 46 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

Annual averages Jan.
Union affiliation Jan.
Earnings by detailed occupation Jan.
Employee absences Jan.
Revised seasonally adjusted series 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

State and area annual averages

State and area annual revisions March

Area definitions May

Region, State, and area labor force data

Annual revisions March

Annual averages May

Cover Design: Keith Tapscott

June

May

Employment and Earnings

Editors

Eugene H. Becker John F. Stinson Jr.

Phyllis L. Lott

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Editors'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 1998. As a result, seasonally adjusted data for 1994-98 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 1999.

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/if directory.

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Employment and Unemployment Developments, December 1998

mployment rose in December and the unemployment rate, at 4.3 percent, was little changed. Nonfarm payroll employment rose by 378,000. Growth was spread throughout the service-producing sector, and unusually mild weather across much of the country contributed to strength in construction.

Unemployment

Both the number of unemployed persons, 6.0 million, and the unemployment rate, 4.3 percent, were little changed in December. The jobless rate has remained within a narrow range of 4.3 to 4.5 percent since April. The unemployment rates for the major worker groups—adult men (3.6 percent), adult women (3.9 percent), teenagers (14.0 percent), whites (3.8 percent), blacks (7.9 percent), and Hispanics (7.6 percent)—showed little or no change in December. (See tables A-3 and A-4.)

Although essentially unchanged in December, the number of persons unemployed 15 weeks and over has declined by about 300,000 over the year, after adjusting for the changes in the composite estimation procedure introduced last January. (See table A-13.)

Total employment and the labor force

Total employment increased by 413,000 in December to 132.5 million, seasonally adjusted. The employment-population ratio—the proportion of the population age 16 and older with jobs—was essentially unchanged at 64.2 percent. Over the year, employment grew by 2.2 million, after adjusting for the changes in the composite estimation procedure. (See table A-3.)

The number of persons employed part time for economic reasons (those who would have preferred full-time work) was 3.4 million in December, about the same as in the previous month. The number of such workers declined by about 330,000 during the past year, after adjusting for changes in the composite estimation procedure. (See table A-7.)

Approximately 8.2 million persons (not seasonally adjusted) held more than one job in December. These multiple jobholders comprised 6.2 percent of total employment, the same share as a year earlier. (See table A-37.)

Over the month, the civilian labor force rose by 354,000 to 138.5 million, seasonally adjusted. The labor force participation rate was 67.2 percent, about unchanged from the previous month. (See table A-3.)

Persons not in the labor force

About 1.2 million persons (not seasonally adjusted) were marginally attached to the labor force in December. These were people who wanted and were available for work and had looked for a job sometime in the prior 12 months but were not counted as unemployed because they had not searched for work in the 4 weeks preceding the survey. In December, the number of marginally attached workers was 257,000 lower than a year earlier.

The number of discouraged workers—a subset of the marginally attached who were not currently looking for work specifically because they believed no jobs were available for them—was 358,000 in December, about the same as a year earlier. (See table A-36.)

Industry payroll employment

Nonfarm payroll employment rose by 378,000 in December to 127.2 million, seasonally adjusted. Job growth in 1998 totaled 2.9 million, a 2.3-percent increase. In December, job gains were spread throughout the service-producing sector, construction employment increased sharply, and job losses slowed in manufacturing. (See table B-3.)

The services industry added 111,000 jobs in December, about equal to the monthly average for the year. Employment in business services rose by 49,000, led by the largest increase in personnel supply since August. Nevertheless, growth in personnel supply, which includes temporary help agencies, slowed substantially in 1998 compared to recent years. Robust job growth continued in computer services where employment rose by 13.3 percent for the year. Engineering and management services employment also continued its strong growth, increasing by 7.3 percent in 1998. For the second straight month, agricultural services benefited from unusually mild weather. Employment in health services was little changed in December, and, over the year, the number of health service jobs grew by only 1.3 percent, half its 1997 rate. Home health care and nursing homes both lost jobs in 1998.

Construction employment grew throughout much of 1998 and in December jumped by 104,000 (after seasonal adjustment). This robust increase was due in part to unseasonably warm temperatures in the North and East. Employment gains were widespread within the industry, with the largest increases in outside activities such as highway construction, masonry, roofing, and concrete.

Employment in retail trade rose by 53,000 in December, the second large increase in a row. Over the year, retail trade employment increased by 462,000. In December, eating and drinking places added 33,000 jobs. A strong employment build-up for the holiday shopping season in department stores also contributed to the over-the-month gain in retail trade. In contrast, apparel stores and miscellaneous retail establishments did not hire for the holiday season at the usual pace, resulting in employment declines after seasonal adjustment both in December and over the September-December period as a whole. Reflecting the strength in construction, employment in building material and garden supply stores had its largest increase of the year in December (9,000).

Transportation and public utilities employment rose in December by 32,000, the largest over-the-month change for that industry in 1998. Strong growth in air transportation (13,000), trucking and warehousing (9,000), and communications (9,000) accounted for most of the increase.

Finance, insurance, and real estate added 28,000 jobs in December, bringing its over-the-year growth to 273,000 jobs. Within finance, strong growth continued in mortgage banking and brokerages, where employment rose by 4,000 in December and by 19.8 percent over the year. Security brokerages also added 4,000 workers in December, offsetting a decline in the prior month; this industry grew by 7.6 percent in 1998. Insurance and real estate both continued their growth trends.

Government employment increased by 59,000 in December, led by gains in State and local education. Federal Government employment declined by 21,000, seasonally adjusted, due in part to light holiday hiring in December by the Postal Service and the ending of an early phase of work on the decennial census.

Manufacturing employment continued to decline, although the loss of 13,000 jobs in December was much smaller than the declines in the prior 2 months. Since March, the number of factory jobs has fallen by 272,000. Within durable goods industries, employment in industrial machinery declined by 10,000 in December, bringing the total losses since March to 54,000. A decline of 9,000 jobs in motor vehicles manufacturing followed a small drop in November and left auto employment down 12,000 for the year. Within nondurable goods industries, employment in food products increased by 8,000, primarily in the preserved fruits and vegetables industry, which tends to have volatile month-to-month movements. Employment in manufacturing industries related to construction and home purchases (lumber; furniture; and stone, clay, and glass) grew in December and over the year.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged up by 0.1 hour in December to 34.6 hours, seasonally adjusted. The manufacturing workweek increased by 0.2 hour to 41.8 hours, while factory overtime was 4.5 hours for the fourth consecutive month. (See table B-8.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls rose by 0.5 percent to 146.5 (1982=100), seasonally adjusted. The manufacturing index increased by 0.3 percent to 107.5. (See table B-9.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose 5 cents in December to \$12.98, seasonally adjusted; this follows 3 months of smaller gains. Average weekly earnings increased 0.7 percent to \$449.11. Over the year, average hourly and weekly earnings have risen by 3.8 percent and 3.5 percent, respectively. (See table B-11.)

Planned Changes in the Household Survey Data

Effective with the release of data for January 1999, revisions will be introduced into the population controls used for the household survey. These revisions primarily reflect new information on immigration and will result in an upward shift in the estimated total civilian noninstitutional population 16 years and over for January 1999. The changes will add approximately 308,000 to routine population trend growth between December 1998 and January 1999. The impact will vary for subpopulations such as men (-183,000), women (491,000), Hispanic origin (-163,000), and non-Hispanic origin (471,000). The changes and their effect on the estimates of labor force change and composition will be described in an article slated to appear in the February 1999 issue of *Employment and Earnings*.

Scheduled Release Dates										
Employment and unemployment data are scheduled for initial release on the following dates:										
Reference month	nce month Release date Reference month Rele									
January February March	February 5 March 5 April 2	April May June	May 7 June 4 July 2							

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. These factors 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. Prior to 1994, when significant changes were introduced in the survey and the processing procedures on which the labor force series estimates are based¹, the usual practice had been to subject each year's seasonally adjusted data to five revision cycles before the values were considered final. With the accumu-

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lation of 5 years of data since 1994, this year's revisions reflect a return to that usual practice. 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 1998 and provide revised estimates for January 1994 through December 1998 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 1999 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 1999 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. Policy makers and analysts must make determinations based on current information. Therefore, 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 1998 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 rate for 1998 as first computed and as revised, as well as the changes due to revision. Rounded to one decimal place as published, the rate changed in only 5 of the 12 months, and the absolute effect of the changes never exceeded 0.1 percentage point in any of those months. The revised rates suggest slightly smoother behavior during 1998 than the initial estimates did.

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

¹ The changes were described in "Revisions in the Current Population Survey Effective January 1994" in the February 1994 issue of this publication.

Table 1. Pre-1994 prior adjustment and January-June 1999 seasonal adjustment factors for the 12 major civilian labor force components

Dropped was and parties	Prior	Seasonal adjustment factors									
Procedure and series	adjustment factors	January	February	March	April	May	June				
Multiplicative adjustment (Divide factor into original value)											
Agricultural employment:											
Men, 20 years and over	(¹)	.891	.883	.939	.994	1.065	1.082				
Women, 20 years and over	.776	.903	.903	.916	.970	1.005	1.043				
Men, 16 to 19 years	.860	.680	.675	.756	.914	1.183	1.480				
Women, 16 to 19 years	.853	.686	.626	.805	.785	1.168	1.513				
Nonagricultural employment:											
Men, 20 years and over	² .996	.987	.991	.994	.998	1.003	1.005				
Women, 20 years and over	(')	.995	1.000	1.005	1.001	1.000	.993				
Jnemployment:											
Men, 20 years and over	.938	1.206	1.161	1.160	1.001	.920	.939				
Women, 20 years and over	.976	1.087	1.029	1.013	.912	.944	1.010				
Additive adjustment (Subtract factor from original value)											
Nonagricultural employment:											
Men, 16 to 19 years	-68	-316	-276	-235	-187	-104	391				
Women, 16 to 19 years	-96	-213	-208	-134	-193	-98	313				
Inemployment:											
Men, 16 to 19 years	-47	7	-12	2	-53	-9	212				
Women, 16 to 19 years	(')	-46	-37	-55	-66	48	212				

¹ No prior adjustment was done.

improvement to the widely used X-11 method developed at the U.S. Bureau of the Census in the 1960s.² 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.³ 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).

Although 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 established criteria. The criteria essentially require a model to: (1) Fit the series well, (2) have low average forecasting

² For this series, the prior adjusted period was pre-1997 rather than pre-1994.

² The primary documentation for the X-11 ARIMA procedure is *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum (Statistics Canada Catalogue No. 12-564E, January 1983). (ARIMA is an acronym for Auto-Regressive 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).

³ 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 1998 and change due to revision

Month	As first computed	As revised	Change
January	4.7	4.6	-0.1
February	4.6	4.6	0
March	4.7	4.7	0
April	4.3	4.3	0
May	4.3	4.4	.1
June	4.5	4.5	0
July	4.5	4.5	0
August	4.5	4.5	0
September	4.6	4.5	1
October	4.6	4.5	1
November	4.4	4.4	0
December	14.4	4.3	1

¹ This rate reflects the use of seasonal factors projected for December 1998 as published in the July 1998 issue of *Employment and Earnings* and was subject to revision before regular publication of December data.

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 that were directly adjusted at the end of 1998, including all 12 major civilian labor force components, whose ARIMA models are unchanged since 1997 and are shown in table 3. 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 two respects.

First, temporary prior adjustment factors identical to those used last year were used again in these X-11 ARIMA runs to help prevent estimation of the seasonal component from being distorted by the changes that affected the continuity of many of the series in 1994 or 1997.⁴ The prior adjustment factors used for all 12 major components are shown in table 1 alongside the seasonal factors.

Second, instead of a 10-year span, a 9-year time period, including data from January 1990 through December 1998, was used for the adjustment of all the labor force series except for the eight educational attainment series (which begin in 1992). This was done primarily for the sake of keeping the seasonal adjustment process no more complicated than it has to be to serve its principal objectives. Population-related revisions to the unadjusted data discussed in

the March 1996 version of this article could be done only back to 1990. Inclusion of pre-1990 data in these runs, therefore, would have required the computation and use of additional prior adjustment factors for many series that would have had little or no effect on the seasonal adjustment of current data

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-frommoving-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 effect in these series and of the procedure used to

Table 3. ARIMA models used in end-of-1998 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:		1
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	(2,1,0)(0,1,1)	NONE
Women, l6 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

⁴For 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 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; and "Revision of Seasonally Adjusted Labor force Series" in the January 1998 issue.

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 endof-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 one on the labor force series,5 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. 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 agesex 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, because 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 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://stats.bls.gov/pub/special.requests/If) to all the revised data. The seasonally adjusted data last published for 1993 and earlier years were not further revised.

The January-June 1999 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.

⁵ 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.

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

Catanan	1997	1997 1998											
Category	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Lat	or force s	tatus					4
Civilian noninstitutional population Civilian labor force Percent of population Employed Percent of population Unemployed Not in labor force		137,288 67.2	137,384 67.2 131,021 64.1 6,363		131,280 64.1	137,369 67.0	137,498 67.0	137,407 66.9	205,479 137,481 66.9 131,264 63.9 6,217 67,998	205,699 138,081 67.1 131,818 64.1 6,263 67,618	205,919 138,116 67.1 131,858 64.0 6,258 67,803		138,547 67.2
			L			Uner	nploymen	rates		L,		·	L
All workers Men, 20 years and over Women, 20 years and over Both sexes, 16 to 19 years White Black Hispanic origin	4.7 4.1 4.1 14.1 3.9 10.1 7.2	4.6 3.8 4.2 14.2 4.0 9.4 7.0	4.6 3.8 4.2 14.7 3.9 9.4 6.9	4.7 3.9 4.2 14.9 4.0 9.2 7.0	4.3 3.5 4.1 13.5 3.7 9.0 6.7	4.4 3.6 3.9 14.3 3.8 8.9 6.9	4.5 3.7 4.1 14.8 4.0 8.5 7.5	4.5 3.8 4.0 14.2 3.8 9.6 7.2	4.5 3.7 4.0 14.9 3.9 8.9 7.4	4.5 3.7 4.0 15.2 3.9 9.0 7.4	4.5 3.6 4.0 15.7 3.9 8.6 7.3	4.4 3.5 4.0 15.0 3.8 8.6 7.3	4.3 3.6 3.9 14.0 3.8 7.9 7.6

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Seasonally

adjusted data have been revised based on the experience through December 1998. 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)

	1997						19	98					
Industry	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p	Dec.P
		Employment											
Total		124,640	124,832	124,914	125,234	125,562	125,751	125,869	126,191	126,363	126,527	126,778	127,156
Total private		104,954	105,112	105,186	105,470	105,734	105,938	106,043	106,269	106,435	106,579	106,802	107,121
Goods-producing industries		25,297	25,314	25,276	25,339	25,301	25,304	25,135	25,253	25,241	25,209	25,184	25,272
Mining		592	590	587	582	579	578	571	571	568	564	560	557
Construction		5,881	5,902	5,860	5,930	5,917	5,946	5,970	5,989	5,981	6,012	6,054	6,158
Manufacturing	18,791	18,824	18,822	18,829	18,827	18,805	18,780	18,594	18,693	18,692	18,633	18,570	18,557
Service-producing industries	99,096	99,343	99,518	99,638	99,895	100,261	100,447	100,734	100,938	101,122	101,318	101,594	101,884
Transportation and public utilities		6.473	6.494	6.504	6,513	6,534	6,538	6,550	6,570	6,579	6,595	6,609	6,641
Wholesale trade		6,759	6.769	6.783	6,798	6.815	6,821	6.827	6,838	6,862	6,864	6,875	6,882
Retail trade	22,245	22,280	22,283	22 259	22,335	22,423	22,448	22,547	22,545	22,592	22,589	22,654	22,707
Finance, insurance, and real estate	7.194	7,213	7,232	7,258	7,289	7.311	7,333	7.370	7.372	7,393	7,417	7,439	7,467
	36,795	36.932	37.020	37.106	37,196	37,350	37,494	37,614	37.691	37,768	37,905	38,041	38,152
Services Government	19.680	19.686	19,720	19,728	19,764	19,828	19.813	19.826	19.922	19,928	19,948	19.976	20,035
GOVERNIEN	19,000	13,000	15,720	13,720	13,704	13,020	15,515	15,020	13,322	13,320	13,340	13,370	20,000
						Over-	the-month	change					
Total	345	351	192	82	320	328	189	118	322	172	164	251	378
Total private	327	345	158	74	284	264	204	105	226	166	144	223	319
Goods-producing industries		104	17	-38	63	-38	3	-169	118	-12	-32	-25	88
Mining		ò	-2	-3	-5	-3	-1	-7	0	-3	~4	-4	-3
Construction		71	21	-42	70	-13	29	24	19	l -š	l ai	42	104
Manufacturing		33	-2	7	-2	-22	-25	-186	99	l .ĭ	-59	-63	-13
Service-producing industries		247	175	120	257	366	186	287	204	184	196	276	290
Transportation and public utilities		22	21	10	9	21	4	12	20	وَّ``ا	16	14	32
Wholesale trade		28	10	14	15	17	6	6	11	24	2	111	7
Retail trade		35	3	-24	76	88	25	99	-2	47	-3	65	53
Finance, insurance, and real estate	22	19	19	26	31	22	22	37	2	21	24	22	28
Services		137	88	86	90	154	144	120	77	77	137	136	111
Government	18	6	34	8	36	64	-15	13	96	l ′6	20	28	59
GOVERNITERIL	"			·	36		-13	13			20	20	39
						H	lours of wo	rk¹		,			
Total private	34.7	34.8	34.7	34.6	34.5	34.7	34.6	34.6	34.6	34.4	34.6	34.5	34.6
Manufacturing		42.1	42.0	41.8	41.4	41.8	41.8	41.7	41.7	41.6	41.7	41.6	41.8
Overtime	4.9	4.9	4.8	4.8	4.5	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5
Citatio			7.0	7.0	٠.٠	٧.٠	4.0			4.0	4.5	4.5	4.5
		indexes of aggregate weekly hours (1982=100)1											
Total private	143.6	144.6	144.4	143.8	144.0	144.9	144.8	145.2	145.3	144.9	145.8	145.7	146.5
Manufacturing	110.6	110.6	110.3	109.7	108.7	109.4	109.0	107.2	108.0	108.0	107.8	107.2	107.5
		i						لــــــــل					
	Earnings 1												
Average hourly earnings, total private:					1	- 1							
Current dollars	\$12.50	\$12.54	\$12.59	\$12.63	\$12.70	\$12.73	\$12.76	\$12.79	\$12.85	\$12.87	\$12.90	\$12.93	\$12.98
Constant (1982) dollars ²	7.63	7.66	7.69	7.72	7.74	7.73	7.75	7.75	7.78	7.79	7.79	7.79	N.A.
Average weekly earnings, total private	433.75	436.39	436.87	437.00	438.15	441.73	441.50	442.53	444.61	442.73	446.34	446.09	449.11
										,			

Data relate to private production or nonsupervisory workers.
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.



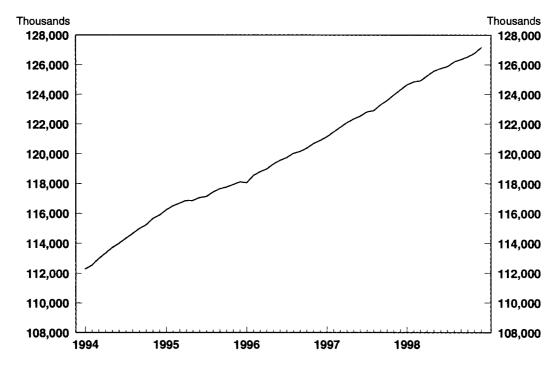
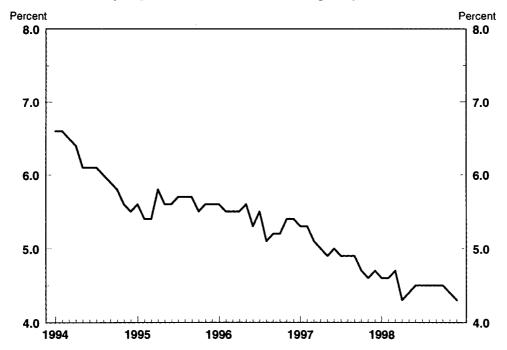


Chart 2. Unemployment rate, seasonally adjusted, 1994-98



NOTE: Beginning in 1990, data reflect 1990 census-based population controls, adjusted for the estimated undercount. Beginning in 1994, data reflect the introduction of a major redesign of the Current Population Survey. Beginning in 1997, data incorporate revisions in the population controls. Beginning in 1998, data incorporate new composite estimation procedures and updated population controls. These changes affect comparability with data for prior periods.

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1965 to date

(Numbers in thousands)

Year and month Civilian noninstitutional population 1965	74,455 75,770 77,347 78,737 80,734 82,771 84,382 87,034 89,429 91,949	Percent of population 58.9 59.2 59.6 59.6 60.1	71,088 72,895 74,372 75,920	Percent of population Annu 56.2 56.9	Agriculture al averages 4,361	Nonagricultural industries	Unem	Percent of labor force	Not in labor force
and month tutional population 1965	74,455 75,770 77,347 78,737 80,734 82,771 84,382 87,034 89,429	58.9 59.2 59.6 59.6 60.1	71,088 72,895 74,372 75,920	of population Annu 56.2 56.9	al averages		Number	of labor	
1966 128,058 1967 129,874 1968 132,028 1969 134,335 1970 137,085 1971 140,216 1972¹ 144,126 1973¹ 147,096 1974 150,120 1975 153,153 1976 156,150 1977 159,033 1978¹ 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591	75,770 77,347 78,737 80,734 82,771 84,382 87,034 89,429	59.2 59.6 59.6 60.1	72,895 74,372 75,920	56.2 56.9					
1966	75,770 77,347 78,737 80,734 82,771 84,382 87,034 89,429	59.2 59.6 59.6 60.1	72,895 74,372 75,920	56.9	4.361				
1966 128,058 1967 129,874 1968 132,028 1969 134,335 1970 137,085 1971 140,216 1972¹ 144,126 1973¹ 147,096 1974 150,120 1975 153,153 1976 156,150 1977 159,033 1978¹ 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591	75,770 77,347 78,737 80,734 82,771 84,382 87,034 89,429	59.2 59.6 59.6 60.1	72,895 74,372 75,920	56.9		66,726	3,366	4.5	52,058
1967 129,874 1968 132,028 1969 134,335 1970 137,085 1971 140,216 1972¹ 144,126 1974 150,120 1975 153,153 1976 156,150 1977 159,033 1978¹ 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591 1997¹ 203,133 1998² 205,220	77,347 78,737 80,734 82,771 84,382 87,034 89,429	59.6 60.1	75,920		3,979	68,915	2,875	3.8	52,288
1969	80,734 82,771 84,382 87,034 89,429	60.1		57.3	3,844	70,527	2,975	3.8	52,527
1970	82,771 84,382 87,034 89,429			57.5	3,817	72,103	2,817	3.6	53,291
1971	84,382 87,034 89,429	604	77,902	58.0	3,606	74,296	2,832	3.5	53,602
1972 ¹ 144,126 1973 ¹ 147,096 1974 150,120 1975 153,153 1976 156,150 1977 159,033 1978 ¹ 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986 ¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990 ¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994 ¹ 190,814 1995 1998,584 1996 200,591 1997 ¹ 203,133 1999 ² 205,220	87,034 89,429	60.4	78,678	57.4	3,463	75,215	4,093	4.9	54,315
1973 ¹ 147,096 1974 150,120 1975 153,153 1976 156,150 1977 159,033 1978 ¹ 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986 ¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990 ¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994 ¹ 196,814 1995 1996 200,591 1997 ¹ 203,133 1998 ² 205,220	89,429	60.2	79,367	56.6	3,394	75,972	5,016	5.9	55,834
1974		60.4	82,153	57.0	3,484	78,669	4,882	5.6	57,091
1975	91.949	60.8	85,064	57.8	3,470	81,594	4,365	4.9	57,667
1976 156,150 1977 159,033 19781 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 19861 180,587 1987 182,753 1988 184,613 1989 186,393 19901 189,164 1991 190,925 1992 192,805 1993 194,838 1994 196,814 1995 198,584 1996 200,591 19971 203,133 19982 205,220		61.3	86,794	57.8	3,515	83,279	5,156	5.6	58,171 50,277
1977	93,775 96,158	61.2 61.6	85,846 88,752	56.1 56.8	3,408 3,331	82,438 85,421	7,929 7,406	8.5 7.7	59,377 59,991
1978¹ 161,910 1979 164,863 1980 167,745 1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591 1997¹ 203,133 1998² 205,220 1997: 203,133 1997: 209,220	99,009	62.3	92,017	57.9	3,283	88,734	6,991	7.1	60,025
1979	102,251	63.2	96,048	59.3	3,387	92,661	6,202	6.1	59,659
1981 170,130 1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986 ¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990 ¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994 ¹ 196,814 1995 1995 199,584 1996 200,591 1997 ¹ 203,133 1998 ² 205,220	104,962	63.7	98,824	59.9	3,347	95,477	6,137	5.8	59,900
1981	106,940	63.8	99,303	59.2	3,364	95,938	7,637	7.1	60,806
1982 172,271 1983 174,215 1984 176,383 1985 178,206 1986 ¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990 ¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994 ¹ 196,814 1995 198,584 1996 200,591 1997 ¹ 203,133 1998 ² 205,220	108,670	63.9	100,397	59.0	3,368	97,030	8,273	7.6	61,460
1983	110,204	64.0	99,526	57.8	3,401	96,125	10,678	9.7	62,067
1985	111,550	64.0	100,834	57.9	3,383	97,450	10,717	9.6	62,665
1986¹ 180,587 1987 182,753 1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591 1998² 205,220 1997: 1997:	113,544	64.4	105,005	59.5	3,321	101,685	8,539	7.5	62,839
1987 182,753 1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591 1997¹ 203,133 1998² 205,220 1997: 1997:	115,461	64.8	107,150	60.1	3,179	103,971	8,312	7.2	62,744
1988 184,613 1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591 1997¹ 203,133 1998² 205,220 1997:	117,834	65.3	109,597	60.7	3,163	106,434	8,237	7.0	62,752
1989 186,393 1990¹ 189,164 1991 190,925 1992 192,805 1993 194,838 1994¹ 196,814 1995 198,584 1996 200,591 1997¹ 203,133 1998² 205,220 1997: 203	119,865	65.6	112,440	61.5	3,208	109,232	7,425	6.2	62,888
1991 190,925 1992 192,805 1993 194,838 1994 196,814 1995 198,584 1996 200,591 1997 203,133 1998 ² 205,220	121,669 123,869	65.9 66.5	114,968 117,342	62.3 63.0	3,169 3,199	111,800 114,142	6,701 6,528	5.5 5.3	62,944 62,523
1991	125,840	66.5	118,793	62.8	2 222		1		
1992 192,805 1993 194,838 1994 ¹ 196,814 1995 198,584 1996 200,591 1997 ¹ 203,133 1998 ² 205,220	126,346	66.2	117,718	61.7	3,223 3,269	115,570 114,449	7,047 8,628	5.6 6.8	63,324
1993	128,105	66.4	118,492	61.5	3,247	115,245	9,613	7.5	64,578 64,700
1994 ¹	129,200	66.3	120,259	61.7	3,115	117,144	8,940	6.9	65,638
1995	131,056	66.6	123,060	62.5	3,409	119,651	7,996	6.1	65,758
1996	132,304	66.6	124,900	62.9	3,440	121,460	7,404	5.6	66,280
1998² 205,220	133,943	66.8	126,708	63.2	3,443	123,264	7,236	5.4	66,647
1997:	136,297	67.1	129,558	63.8	3,399	126,159	6,739	4.9	66,837
	137,673	67.1	131,463	64.1	3,378	128,085	6,210	4.5	67,547
			1	Monthly data,	easonally adj	usted ³		<u>-</u>	<u>, , , , , , , , , , , , , , , , , , , </u>
] 7							
December 204,098	137,086	67.2	130,638	64.0	3,383	127,255	6,448	4.7	67,012
1998:			,				ļ	}	
January ² 204,238	137,288	67.2	130,943	64.1	3,337	127,606	6,345	4.6	66,950
February 204,400	137,384	67.2	131,021	64.1	3,345	127,676	6,363	4.6	67,016
March 204,547	137,340	67.1	130,908	64.0	3,173	127,735	6,432	4.7	67,207
April 204,731	137,232	67.0	131,280	64.1	3,381	127,899	5,952	4.3	67,499
May 204,899 June 205,085	137,369 137,498	67.0 67.0	131,330	64.1	3,351	127,979	6,039	4.4	67,530
July 205,085	137,498	66.9	131,253 131,176	64.0 63.9	3,363 3,423	127,890 127,753	6,245	4.5	67,587
August 205,479	137,481	66.9	131,176	63.9	3,492	127,753	6,231 6,217	4.5	67,863
September 205,699	138,081	67.1	131,818	64.1	3,470	128,348	6,263	4.5 4.5	67,998 67,618
October 205,919		67.1	131,858	64.0	3,558	128,300	6,258	4.5	67,803
November 206,104	138,116	67.1	132,113	64.1	3,348	128,765	6,080	4.4	67,911
December 206,270		67.2	132,526	64.2	3,222	129,304	6,021	4.3	67,723

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 1998, data are not strictly comparable with data for 1997 and earlier years because of the introduction of new composition procedures, and revisions in the population controls used in the

estimation procedures and revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current

Population Survey Effective January 1998" in the February 1998 issue of this publication.

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 1998. Data for 1994-98 are subject to revision. See the article in this issue for additional information.

HOUSEHOLD DATA HISTORICAL

A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1987 to date

(Numbers in thousands)

	Ì				Civilia	n labor force				
	Civilian				Er	nployed		Unem	ployed	Not in
Sex, year, and month	noninsti- tutional population	Number	Percent of population	Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	labor force
					Annu	al averages			L	
MEN										
987	86,899	66,207	76.2	62,107	71.5	2,543	59,564	4,101	6.2	20.692
988		66,927	76.2	63,273	72.0	2,493	60,780	3,655	5.5	20,930
989	88,762	67,840	76.4	64,315	72.5	2,513	61,802	3,525	5.2	20,92
9901		69,011	76.4	65,104	72.0	2,546	62,559	3,906	5.7	21,36
991 992	91,278 92,270	69,188 69,964	75.8 75.8	64,223 64,440	70.4 69.8	2,589	61,634	4,946	7.2	22,110
93		70,404	75.4	65,349	70.0	2,575 2,478	61,866 62,871	5,523 5,055	7.9 7.2	22,30 22,92
9941		70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,53
995		71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,81
996		72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,11
971		73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,45
9982	98,758	73,959	74.9	70,693	71.6	2,553	68,140	3,2 6 6	4.4	24,79
					Monthly data,	seasonally adju	usted ³			L
997:		}]							
December	98,225	73,562	74.9	70,133	71.4	2,506	67,627	3,429	4.7	24,66
998:			<u>†</u>		,					
January ²	98,241	73,719	75.0	70.387	71.6	2,483	67,904	3,332	4.5	24,52
February		73,735	75.0	70,411	71.6	2,475	67,936	3.324	4.5	24,59
March	98,405	73,657	74.9	70,295	71.4	2,380	67,915	3,362	4.6	24,74
April	98,503	73,723	74.8	70,695	71.8	2,595	68,100	3,028	4.1	24,78
May		73,792	74.8	70,603	71.6	2,508	68,095	3,189	4.3	24,79
June		73,866	74.8	70,592	71.5	2,541	68,051	3,274	4.4	24,82
July		73,989	74.9	70,629	71.5	2,589	68,040	3,360	4.5	24,79
August September		73,754 74,202	74.6 74.9	70,503 70,841	71.3 71.6	2,631 2,644	67,872 68,197	3,251	4.4	25,13
October		74,202	74.8	70,925	71.6	2,734	68,191	3,361 3,264	4.5 4.4	24,80- 24,93
November		74,345	74.9	71,182	71.7	2,578	68,604	3,163	4.3	24,93
December	99,309	74,437	75.0	71,204	71.7	2,414	68,790	3,233	4.3	24,87
		L	L	\	Annı	l ıal averages			L	L
WOMEN										
987	95,853	53,658	56.0	50,334	52.5	666	49,668	3,324	6.2	42,19
988		54,742	56.6	51,696	53.4	676	51,020	3,046	5.6	42,01
989		56,030	57.4	53,027	54.3	687	52,341	3,003	5.4	41,60
9901	98,787	56,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,95
991		57,178	57.4	53,496	53.7	680	52,815	3,683	6.4	42.46
992	100,535	58,141	57.8	54,052	53.8	672	53,380	4,090	7.0	42,39
993	101,506	58,795	57.9	54,910	54.1	637	54,273	3,885	6.6	42,71
9941		60,239	58.8	56,610	55.3	855	55,755	3,629	6.0	42,22
995 996		60,944 61,857	58.9 59.3	57,523 58,501	55.6 56.0	881 871	56,642 57,630	3,421 3,356	5.6	42,46
9971		63,036	59.8	59,873	56.8	847	59,026	3,162	5.4 5.0	42,52 42,38
9982	106,462	63,714	59.8	60,771	57.1	825	59,945	2,944	4.6	42,74
	-		I,	L	Monthly data,	seasonally adju	usted ³	L		
997:					1					
December	105,873	63,524	60.0	60,505	57.1	877	59,628	3,019	4.8	42,349
998:										
January ²	105,997	63,569	60.0	60,556	57.1	854	59,702	3,013	4.7	42,42
ebruary	106,070	63,649	60.0	60,610	57.1	870	59,740	3,039	4.8	42,42
March	106,141	63,683	60.0	60,613	57.1	793	59,820	3,070	4.8	42,45
April	106,228	63,509	59.8	60,585	57.0	786	59,799	2,924	4.6	42,71
May		63,577	59.8	60,727	57.1	843	59,884	2,850	4.5	42,73
June	106,394	63,632	59.8	60,661	57.0	822	59,839	2,971	4.7	42,76
luly		63,418	59.6	60,547	56.9	834	59,713	2,871	4.5	43,06
August		63,727	59.8	60,761	57.0	861	59,900	2,966	4.7	42,86
September		63,879 63,927	59.9 59.9	60,977 60,933	57.2 57.1	826 824	60,151 60,109	2,902	4.5	42,81
October November		63,848	59.7	60,933	57.0	770	60,109	2,994 2,917	4.7 4.6	42,87 43,03
December		64,110	59.9	61,322	57.3	808	60,514	2,788	4.3	42,85
	1,	1 - ",	1	1 - '	1	1	1,	1 -,	1	1,55

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.

Beginning in January 1998, data are not strictly comparable with data for 1997 and earlier years because of the introduction of new composite estimation procedures and revisions in the population controls used in the household survey. For additional

information, see "Revisions in the Current Population Survey Effective January 1998" in the February 1998 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 1998. Data for 1994-98 are subject to revision. See the article in this issue for additional information. additional information.

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

(Numbers in thousands)

Employment status,	1997						19	98					
sex, and age	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL													
Civilian noninstitutional population ¹ Civilian labor force	137,086 67.2	204,238 137,288 67.2 130,943 64.1 6,345 4.6	204,400 137,384 67.2 131,021 64.1 6,363 4.6	204,547 137,340 67.1 130,908 64.0 6,432 4.7	204,731 137,232 67.0 131,280 64.1 5,952 4.3	204,899 137,369 67.0 131,330 64.1 6,039 4.4	205,085 137,498 67.0 131,253 64.0 6,245 4.5	205,270 137,407 66.9 131,176 63.9 6,231 4.5	205,479 137,481 66.9 131,264 63.9 6,217 4.5	205,699 138,081 67.1 131,818 64.1 6,263 4.5	205,919 138,116 67.1 131,858 64.0 6,258 4.5	206,104 138,193 67.1 132,113 64.1 6,080 4.4	206,270 138,547 67.2 132,526 64.2 6,021 4.3
Men, 16 years and over Civilian noninstitutional population ¹ . Civilian labor force Percent of population Employed Employment-population ratio Agriculture Nonagricultural industries Unemployed Unemployed Not in labor force		98,241 73,719 75.0 70,387 71.6 2,483 67,904 3,332 4.5 24,522	98,331 73,735 75.0 70,411 71.6 2,475 67,936 3,324 4.5 24,596	98,405 73,657 74.9 70,295 71.4 2,380 67,915 3,362 4.6 24,748	98,503 73,723 74.8 70,695 71.8 2,595 68,100 3,028 4.1 24,780	98,591 73,792 74.8 70,603 71.6 2,508 68,095 3,189 4.3 24,799	98,691 73,866 74.8 70,592 71.5 2,541 68,051 3,274 4.4 24,825	98,785 73,989 74.9 70,629 71.5 2,589 68,040 3,360 4.5 24,796	98,892 73,754 74.6 70,503 71.3 2,631 67,872 3,251 4.4 25,138	99,006 74,202 74.9 70,841 71.6 2,644 68,197 3,361 4.5 24,804	99,121 74,189 74.8 70,925 71.6 2,734 68,191 3,264 4.4 24,932	99,217 74,345 74,9 71,182 71.7 2,578 68,604 3,163 4.3 24,872	99,309 74,437 75.0 71,204 71.7 2,414 68,790 3,233 4.3 24,872
Men, 20 years and over Civilian noninstitutional population ¹ . Civilian labor force Percent of population Employed Employment-population ratio Agriculture Nonagricultural industries Unemployed Unemployment rate Not in labor force	66,636 73.8 2,314	90,391 69,547 76.9 66,892 74.0 2,303 64,589 2,655 3.8 20,844	90,476 69,559 76.9 66,927 74.0 2,297 64,630 2,632 3.8 20,917	90,502 69,446 76.7 66,769 73.8 2,194 64,575 2,677 3.9 21,056	90,580 69,616 76.9 67,173 74.2 2,423 64,750 2,443 3.5 20,964	90,622 69,608 76.8 67,084 74.0 2,331 64,753 2,524 3.6 21,014	90,700 69,590 76.7 66,994 73.9 2,337 64,657 2,596 3.7 21,110	90,802 69,738 76.8 67,056 73.8 2,382 64,674 2,682 3.8 21,064	90,889 69,518 76.5 66,940 73.7 2,420 64,520 2,578 3.7 21,371	91,003 69,869 76.8 67,262 73.9 2,402 64,860 2,607 3.7 21,134	91,101 69,913 76.7 67,362 73.9 2,449 64,913 2,551 3.6 21,188	91,192 70,023 76.8 67,573 74.1 2,374 65,199 2,450 3.5 21,169	91,220 70,069 76.8 67,553 74.1 2,237 65,316 2,516 3.6 21.151
Women, 16 years and over Civilian noninstitutional population ¹ Civilian labor force Percent of population Employed Employment-population ratio Agriculture Nonagricultural industries Unemployed Unemployment rate Not in labor force	63,524 60.0 60,505 57.1 877 59,628 3,019	105,997 63,569 60.0 60,556 57.1 854 59,702 3,013 4.7 42,428	106,070 63,649 60.0 60,610 57.1 870 59,740 3,039 4.8 42,421	106,141 63,683 60.0 60,613 57.1 793 59,820 3,070 4.8 42,458	106,228 63,509 59.8 60,585 57.0 786 59,799 2,924 4.6 42,719	106,308 63,577 59.8 60,727 57.1 843 59,884 2,850 4.5 42,731	106,394 63,632 59.8 60,661 57.0 822 59,839 2,971 4.7 42,762	106,484 63,418 59.6 60,547 56.9 834 59,713 2,871 4.5 43,066	106,587 63,727 59,8 60,761 57.0 861 59,900 2,966 4,7 42,860	106,693 63,879 59,9 60,977 57.2 826 60,151 2,902 4.5 42,814	106,798 63,927 59,9 60,933 57.1 824 60,109 2,994 4.7 42,871	106,887 63,848 59,7 60,931 57.0 770 60,161 2,917 4.6 43,039	106,960 64,110 59.9 61,322 57.3 808 60,514 2,788 4.3 42,850
Women, 20 years and over Civilian noninstitutional population ¹ Civilian labor force Percent of population Employed Employed Agriculture Nonagricultural industries Unemployed Unemployed Unemployment rate Not in labor force	831 56,334 2,473	98,420 59,583 60.5 57,051 58.0 805 56,246 2,532 4.2 38,837	98,471 59,625 60.6 57,097 58.0 799 56,298 2,528 4.2 38,846	98,534 59,666 60.6 57,136 58.0 734 56,402 2,530 4.2 38,868	98,583 59,539 60.4 57,117 57.9 726 56,391 2,422 4.1 39,044	98,668 59,583 60.4 57,235 58.0 767 56,468 2,348 3.9 39,085	98,735 59,613 60.4 57,190 57.9 763 56,427 2,423 4.1 39,122	98,778 59,465 60.2 57,078 57.8 781 56,297 2,387 4.0 39,313	98,901 59,708 60.4 57,295 57.9 806 56,489 2,413 4.0 39,193	98,994 59,804 60.4 57,426 58.0 767 56,659 2,378 4.0 39,190	99,037 59,826 60.4 57,437 58.0 771 56,666 2,389 4.0 39,211	99,135 59,896 60.4 57,503 58.0 734 56,769 2,393 4.0 39,239	99,181 60,078 60.6 57,745 58.2 753 56,992 2,333 3.9 39,103
Both sexes, 16 to 19 years Civilian noninstitutional population ¹ Civilian labor force Percent of population Employed Employment-population ratio Agriculture Nonagricultural industries Unemployed Unemployed Not in labor force	51.5 6,837 44.2 238 6,599 1,122	15,427 8,158 52.9 7,000 45.4 229 6,771 1,158 14.2 7,269	15,453 8,200 53.1 6,997 45.3 249 6,748 1,203 14.7 7,253	15,511 8,228 53.0 7,003 45.1 245 6,758 1,225 14.9 7,283	15,569 8,077 51.9 6,990 44.9 232 6,758 1,087 13.5 7,492	15,609 8,178 52.4 7,011 44.9 253 6,758 1,167 14.3 7,431	15,651 8,295 53.0 7,069 45.2 263 6,806 1,226 14.8 7,356	15,690 8,204 52.3 7,042 44.9 260 6,782 1,162 14.2 7,486	15,689 8,255 52.6 7,029 44.8 266 6,763 1,226 14.9 7,434	15,702 8,408 53.5 7,130 45.4 301 6,829 1,278 15.2 7,294	15,781 8,377 53.1 7,059 44.7 338 6,721 1,318 15.7 7,404	15,777 8,274 52.4 7,037 44.6 240 6,797 1,237 15.0 7,503	15,868 8,400 52.9 7,228 45.5 232 6,996 1,172 14.0 7,468

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 1998, data reflect new

composite estimation procedures and revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1998. See the article in this issue for additional information.

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-4. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted

(Numbers in thousands)

Employment status,	1997						19	98					
race, sex, age, and Hispanic origin	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
WHITE	}		_										
Civilian noninstitutional population ¹ Civilian labor force	115,118 67.5 110,612 64.8 4,506	170,810 115,226 67.5 110,659 64.8 4,567 4.0	170,917 115,271 67.4 110,731 64.8 4,540 3.9	171,016 115,184 67.4 110,556 64.6 4,628 4.0	115,121 67.3	171,257 115,312 67.3 110,959 64.8 4,353 3.8	115,208 67.2	171,513 115,071 67.1 110,676 64.5 4,395 3.8	171,655 115,385 67.2 110,848 64.6 4,537 3.9	171,804 115,751 67.4 111,221 64.7 4,530 3.9	171,956 115,714 67.3 111,162 64.6 4,552 3.9	115,687 67.2	172,197 115,996 67.4 111,560 64.8 4,436 3.8
Men, 20 years and over													
Civilian labor force	77.4 57,246 74.7 2,067	59,277 77.3 57,320 74.8 1,957 3.3	59,314 77.3 57,378 74.8 1,936 3.3	59,179 77.1 57,201 74.5 1,978 3.3	59,324 77.2 57,538 74.9 1,786 3.0	59,338 77.2 57,452 74.7 1,886 3.2	59,298 77.1 57,348 74.6 1,950 3.3	59,406 77.2 57,447 74.6 1,959 3.3	59,384 77.1 57,450 74.6 1,934 3.3	59,587 77.3 57,615 74.7 1,972 3.3	59,579 77.2 57,646 74.7 1,933 3.2	59,634 77.2 57,806 74.8 1,828 3.1	59,712 77.2 57,813 74.8 1,899 3.2
Women, 20 years and over													
Civilian labor force	60.0 47,387 58.0 1,691	49,046 59.9 47,252 57.7 1,794 3.7	49,031 59.9 47,283 57.7 1,748 3.6	49,028 59.9 47,271 57.7 1,757 3.6	48,972 59.8 47,304 57.7 1,668 3.4	49,048 59.8 47,423 57.8 1,625 3.3	48,930 59.6 47,244 57.6 1,686 3.4	48,770 59.4 47,129 57.4 1,641 3.4	49,025 59.7 47,321 57.6 1,704 3.5	49,108 59.8 47,456 57.7 1,652 3.4	49,062 59.7 47,401 57.6 1,661 3.4	49,065 59.6 47,415 57.6 1,650 3.4	49,230 59.8 47,585 57.8 1,645 3.3
Both sexes, 16 to 19 years								!					
Civilian labor force Percent of population Employed Employment-population ratio Unemployed Unemployed Wenn Women	54.9 5,979 48.8 748 11.1	6,903 56.2 6,087 49.6 816 11.8 14.1 9.4	6,926 56.3 6,070 49.3 856 12.4 14.4 10.1	6,977 56.6 6,084 49.3 893 12.8 14.7 10.7	6,825 55.2 6,016 48.6 809 11.9 12.9 10.7	6,926 55.8 6,084 49.0 842 12.2 14.0 10.1	6,980 56.1 6,046 48.6 934 13.4 14.4 12.3	6,895 55.3 6,100 48.9 795 11.5 13.2 9.7	6,976 55.8 6,077 48.6 899 12.9 14.2 11.5	7,056 56.4 6,150 49.1 906 12.8 14.7 10.8	7,073 56.4 6,115 48.8 958 13.5 14.1 13.0	6,988 55.7 6,083 48.5 905 13.0 14.1 11.6	7,054 56.1 6,162 49.0 892 12.6 14.5 10.6
BLACK													
Civilian noninstitutional population ¹ Civilian labor force	15,733 65.1 14,147 58.5 1,586	24,196 15,770 65.2 14,288 59.1 1,482 9.4	24,229 15,834 65.4 14,340 59.2 1,494 9.4	24,257 15,931 65.7 14,463 59.6 1,468 9.2	24,289 15,901 65.5 14,477 59.6 1,424 9.0	24,317 15,760 64.8 14,351 59.0 1,409 8.9	24,349 16,025 65.8 14,662 60.2 1,363 8.5	24,381 16,045 65.8 14,511 59.5 1,534 9.6	24,418 15,937 65.3 14,517 59.5 1,420 8.9	24,458 16,027 65.5 14,584 59.6 1,443 9.0	24,496 16,163 66.0 14,776 60.3 1,387 8.6	24,529 16,201 66.0 14,804 60.4 1,397 8.6	24,561 16,157 65.8 14,884 60.6 1,273 7.9
Men, 20 years and over													
Civilian labor force Percent of population Employed Employment-population ratio Unemployed Unemployed	72.1 6,366 65.9 600	6,998 72.5 6,442 66.7 556 7.9	6,993 72.3 6,448 66.7 545 7.8	7,037 72.7 6,503 67.2 534 7.6	7,077 73.0 6,548 67.6 529 7.5	7,005 72.2 6,523 67.2 482 6.9	7,080 72.9 6,574 67.7 506 7.1	7,111 73.1 6,491 66.7 620 8.7	7,021 72.1 6,487 66.6 534 7.6	6,999 71.7 6,499 66.6 500 7.1	7,144 73.1 6,653 68.0 491 6.9	7,086 72.4 6,590 67.3 496 7.0	7,063 72.0 6,588 67.2 475 6.7
Women, 20 years and over							1						
Civilian labor force Percent of population Employed Employment-population ratio Unemployed Unemployed Unemployment rate	64.5 7,157 59.1 647	7,802 64.3 7,169 59.1 633 8.1	7,895 65.0 7,238 59.6 657 8.3	7,902 65.0 7,256 59.7 646 8.2	7,830 64.4 7,192 59.1 638 8.1	7,792 64.0 7,146 58.7 646 8.3	7,870 64.6 7,255 59.5 615 7.8	7,916 64.9 7,294 59.8 622 7.9	7,903 64.7 7,302 59.7 601 7.6	7,948 64.9 7,320 59.8 628 7.9	7,992 65.2 7,391 60.3 601 7.5	8,051 65.6 7,443 60.6 608 7.6	8,035 65.4 7,474 60.8 561 7.0

See footnotes at end of table.

A-4. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted - Continued

(Numbers in thousands)

Employment status,	1997						19	98					
race, sex, age, and Hispanic origin	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BLACK-Continued Both sexes, 16 to 19 years													
Civilian labor force Percent of population Employed Employment-population ratio Unemployed Unemployment rate Men Women	963 39.9 624 25.8 339 35.2 36.7 34.0	970 40.2 677 28.0 293 30.2 31.7 28.8	946 39.1 654 27.0 292 30.9 34.0 28.0	992 40.9 704 29.0 288 29.0 28.5 29.5	994 40.8 737 30.3 257 25.9 26.0 25.7	963 39.5 682 27.9 281 29.2 31.2 27.4	1,075 44.0 833 34.1 242 22.5 22.4 22.6	1,018 41.5 726 29.6 292 28.7 30.2 27.0	1,013 41.3 728 29.7 285 28.1 29.7 26.8	1,080 44.0 765 31.1 315 29.2 32.7 25.7	1,027 41.8 732 29.8 295 28.7 34.7 23.5	1,064 43.3 771 31.4 293 27.5 33.0 22.1	1,059 43.0 822 33.4 237 22.4 27.3 17.6
HISPANIC ORIGIN Civilian noninstitutional population ¹ Civilian labor force	20,629 13,985 67.8 12,977 62.9 1,008 7.2	20,741 14,020 67.6 13,038 62.9 982 7.0	20,798 14,145 68.0 13,165 63.3 980 6.9	20,851 14,254 68.4 13,263 63.6 991 7.0	20,915 14,289 68.3 13,332 63.7 957 6.7	20,975 14,378 68.5 13,387 63.8 991 6.9	21,036 14,375 68.3 13,301 63.2 1,074 7.5	21,097 14,267 67.6 13,245 62.8 1,022 7.2	21,159 14,316 67.7 13,257 62.7 1,059 7.4	21,224 14,457 68.1 13,394 63.1 1,063 7.4	21,286 14,437 67.8 13,382 62.9 1,055 7.3	21,349 14,389 67.4 13,345 62.5 1,044 7.3	21,405 14,488 67.7 13,383 62.5 1,105 7.6

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1998. See the article in this issue for additional information.

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

	1997						19	98					
Educational attainment	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Less than a high school diploma													
Civilian noninstitutional population ¹	29,566	29,981	29,228	29,251	29,638	29,931	30,064	29,027	29,204	29,290	28,713	29,084	29,094
Civilian labor force	1	12,629	12.561	12,516	12,624	12,630	12,784	12,561	12,496	12,563	12,408	12,463	12,500
Percent of population		42.1	43.0	42.8	42.6	42.2	42.5	43.3	42.8	42.9	43.2	42.9	43.0
Employed		11,715	11,670	11,622	11,729	11,762	11,873	11,665	11,612	11,692	11,556	11,574	11,626
Employment-population ratio		39.1	39.9	39.7	39.6	39.3	39.5	40.2	39.8	39.9	40.2	39.8	40.0
Unemployed		914	891	894	895	868	911	896	884	871	852	889	874
Unemployment rate		7.2	7.1	7.1	7.1	6.9	7.1	7.1	7.1	6.9	6.9	7.1	7.0
High school graduates, no college ²												<u> </u>	
Civilian noninstitutional population1	57.631	57.606	57,418	57.885	57.484	57,706	57,446	57,374	57,729	57,589	57,666	57,273	57,115
Civilian labor force		37,745	37,730	37,850	37,412	37,488	37,171			37,289	37,540		
Percent of population		65.5	65.7	65.4	65.1	65.0	64.7	65.0	64.7	64.8	65.1	65.3	65.3
Employed		36,249	36.225	36,262	35,935	36,071	35,681			35,783	36,056		35.873
Employment-population ratio	62.9	62.9	63.1	62.6	62.5	62.5	62.1	62.4	62.2	62.1	62.5	62.8	62.8
Unemployed	1,550	1,496	1,505	1,588	1,477	1,417	1,490	1,511	1,484	1,506	1,484	1,461	1,423
Unemployment rate		4.0	4.0	4.2	3.9	3.8	4.0	4.1	4.0	4.0	4.0		3.8
Less than a bachelor's degree ³												 	
Civilian noninstitutional population ¹	42,085	41,718	42,527	42,313	42,303	42,024	41,880	42,293	41.842	41,769	42,573	42,863	43.022
Civilian labor force	31.357	31,385	31,418	31,459	31,435	31,411	31,283		31,117	31,271	31,349	31,727	31.800
Percent of population	74.5	75.2	73.9	74.3	74.3	74.7	74.7	73.8	74.4	74.9	73.6	74.0	73.9
Employed	30.335	30,383	30,448	30,448	30,572	30,447	30,371	30,274	30,231	30,343	30,423	30,825	30.911
Employment-population ratio	72.1	72.8	71.6	72.0	72.3	72.5	72.5	71.6	72.3	72.6	71.5	71.9	71.8
Unemployed	1,022	1.002	970	1,011	863	964	912	946	886	928	926	902	889
Unemployment rate	3.3	3.2	3.1	3.2	2.7	3.1	2.9	3.0	2.8	3.0	3.0		2.8
College graduates													
Civilian noninstitutional population1	41,822	41,974	42,238	42,085	42,197	42,090	42,464	43,309	43,431	43,669	43.520	43,408	43,484
Civilian labor force	33,683	33,698	33,742	33,833	34,039	34,028	34,281	34,637	34,739	34,914	34,779	34.554	34.838
Percent of population	80.5	80.3	79.9	80.4	80.7	80.8	80.7	80.0	80.0	80.0	79.9	79.6	80.1
Employed	33,086	33,067	33,114	33,210	33,456	33,451	33,681	34,051	34,129	34.335	34,108		34,205
Employment-population ratio	79.1	78.8	78.4	78.9	79.3	79.5	79.3	78.6	78.6	78.6	78.4	78.1	78.7
Unemployed	597	631	628	623	583	577	600	586	610	579	671	632	633
Unemployment rate	1.8	1.9	1.9	1.8	1.7	1.7	1.8	1.7	1.8	1.7	1.9	1.8	1.8

procedures and revised population controls used in the household survey. Seasonally sdjusted data have been revised based on the experience through December 1998. See the article in this issue for additional information.

The population figures are not adjusted for seasonal variation.
 Includes high school diploma or equivalent.
 Includes the categories, some college, no degree; and associate degree.
 NOTE: Beginning in January 1998, data reflect new composite estimation

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,	1997						19	98				,. .	
and age	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
EMPLOYED													
Full-time workers	107,306	107,642	107,712	107,741	107,992	108,048	107,748	107,856	108,150	108,512	108,561	109,016	109,483
	62,742	62,858	62,830	62,841	63,045	63,055	63,108	63,138	63,202	63,216	63,417	63,726	63,829
	61,434	61,586	61,557	61,537	61,750	61,721	61,721	61,729	61,808	61,911	62,039	62,312	62,375
	44,540	44,698	44,787	44,839	44,910	44,943	44,656	44,845	45,097	45,344	45,154	45,289	45,604
	43,629	43,790	43,834	43,841	43,944	43,967	43,756	43,819	44,019	44,265	44,231	44,387	44,675
	2,243	2,266	2,321	2,363	2,298	2,360	2,271	2,308	2,323	2,336	2,291	2,317	2,433
Part-time workers Men, 16 years and over Men, 20 years and over Women, 16 years and over Women, 20 years and over Both sexes, 16 to 19 years	23,487	23,364	23,241	23,339	23,207	23,239	23,460	23,231	22,975	23,284	23,281	23,249	23,258
	7,489	7,467	7,518	7,531	7,594	7,468	7,485	7,496	7,332	7,644	7,490	7,554	7,490
	5,278	5,278	5,303	5,307	5,362	5,294	5,256	5,322	5,181	5,364	5,295	5,332	5,272
	16,001	15,817	15,736	15,794	15,637	15,769	16,027	15,732	15,638	15,682	15,797	15,690	15,770
	13,580	13,289	13,231	13,325	13,160	13,245	13,446	13,258	13,230	13,154	13,197	13,125	13,134
	4,629	4,797	4,707	4,707	4,685	4,700	4,758	4,651	4,564	4,766	4,789	4,792	4,852
UNEMPLOYED]				
Looking for full-time work	5,196	5,048	5,093	5,079	4,763	4,877	4,915	4,943	4,919	4,916	4,871	4,736	4,781
	2,961	2,702	2,687	2,741	2,538	2,690	2,768	2,823	2,739	2,788	2,698	2,611	2,675
	2,645	2,446	2,410	2,449	2,219	2,337	2,399	2,461	2,364	2,383	2,324	2,235	2,319
	2,255	2,284	2,330	2,292	2,249	2,176	2,221	2,077	2,209	2,159	2,215	2,179	2,131
	1,959	2,037	2,115	2,025	1,991	1,933	1,936	1,918	1,959	1,924	1,944	1,918	1,891
	592	565	568	605	553	607	580	564	596	609	603	583	571
Looking for part-time work	1,262	1,325	1,277	1,386	1,192	1,194	1,288	1,283	1,298	1,298	1,362	1,340	1,263
	486	549	569	569	526	523	564	551	539	571	594	577	581
	219	212	220	226	224	196	193	221	205	213	223	219	209
	753	757	720	803	705	698	753	749	744	708	748	757	663
	476	494	448	530	436	417	482	482	459	424	442	464	412
	567	619	609	630	532	581	613	580	634	661	697	657	642
UNEMPLOYMENT RATES1						i							
Full-time workers	4.6	4.5	4.5	4.5	4.2	4.3	4.4	4.4	4.4	4.3	4.3	4.2	4.2
	4.5	4.1	4.1	4.2	3.9	4.1	4.2	4.3	4.2	4.2	4.1	3.9	4.0
	4.1	3.8	3.8	3.8	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6
	4.8	4.9	4.9	4.9	4.8	4.6	4.7	4.4	4.7	4.5	4.7	4.6	4.5
	4.3	4.4	4.6	4.4	4.3	4.2	4.2	4.2	4.3	4.2	4.2	4.1	4.1
	20.9	20.0	19.7	20.4	19.4	20.5	20.3	19.6	20.4	20.7	20.8	20.1	19.0
Part-time workers	5.1	5.4	5.2	5.6	4.9	4.9	5.2	5.2	5.3	5.3	5.5	5.4	5.2
	6.1	6.8	7.0	7.0	6.5	6.5	7.0	6.8	6.8	7.0	7.3	7.1	7.2
	4.0	3.9	4.0	4.1	4.0	3.6	3.5	4.0	3.8	3.8	4.0	3.9	3.8
	4.5	4.6	4.4	4.8	4.3	4.2	4.5	4.5	4.5	4.3	4.5	4.6	4.0
	3.4	3.6	3.3	3.8	3.2	3.1	3.5	3.5	3.4	3.1	3.2	3.4	3.0
	10.9	11.4	11.5	11.8	10.2	11.0	11.4	11.1	12.2	12.2	12.7	12.1	11.7

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 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey. Data have been revised based on the experience through December 1998. See the article in this issue for additional information.

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(In thousands)

	1997						19	98					
Category	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
MARITAL STATUS Total		130,943	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526
Married men, spouse present Married women, spouse present Women who maintain families		42,894 32,837 7,797	42,869 32,829 7,872	42,789 32,853 7,802	42,860 32,919 7,829	42,560 32,815 7,854	42,648 32,820 7,909	42,850 32,719 7,875	42,874 32,670 7,928	43,170 32,891 7,984	43,090 33,037 7,940	43,209 32,953 7,969	43,227 33,093 8,087
OCCUPATION													
Managerial and professional specialty Technical, sales, and administrative support Service occupations Precision production, craft, and repair Operators, fabricators, and laborers Farming, forestry, and fishing	38,159 38,570 17,847 14,309 18,302 3,484	38,124 38,462 18,089 14,298 18,556 3,418	38,210 38,519 17,899 14,368 18,526 3,477	38,433 38,631 17,796 14,552 18,226 3,326	38,617 38,568 17,527 14,566 18,374 3,494	38,681 38,493 17,776 14,766 18,284 3,487	38,786 38,573 17,856 14,466 18,152 3,513	39,020 38,513 17,683 14,334 18,157 3,519	38,942 38,843 17,770 14,158 17,968 3,590	39,553 38,478 17,926 14,045 18,118 3,585	39,679 38,431 17,692 14,192 18,168 3,604	39,459 38,430 18,024 14,552 18,067 3,538	39,729 38,307 17,976 14,685 18,480 3,396
CLASS OF WORKER	}						ļ						
Agriculture: Wage and salary workers Self-employed workers Unpaid family workers Nonagricultural industries: Wage and salary workers Private industries Private households	1,479 53 118,255	1,929 1,367 44 118,491 100,184 981	1,936 1,362 42 118,704 100,402 1,017	1,905 1,264 34 118,797 100,673 997	1,990 1,345 33 118,705 100,474 996	1,920 1,391 50 118,852 100,690 992	1,857 1,445 44 118,733 100,266 962	2,010 1,374 32 118,647 100,273 966	2,111 1,342 31 118,840 100,508 871	2,145 1,290 40 119,148 100,700 918	2,247 1,282 33 119,275 100,728 946	2,005 1,304 40 119,718 101,111 969	1,912 1,304 34 120,380 101,694 943
Other industries Government Self-employed workers Unpaid family workers		99,203 18,307 8,958 115	99,385 18,302 8,826 113	99,676 18,124 8,831 105	99,478 18,231 9,064 119	99,698 18,162 9,012 95	99,304 18,467 8,971 97	99,307 18,374 9,060 91	99,637 18,332 8,955 88	99,782 18,448 9,096 88	99,782 18,547 9,030 95	100,142 18,607 8,929 112	100,751 18,686 8,814 122
PERSONS AT WORK PART TIME ¹													
All industries: Part time for economic reasons	3,836 2,237 1,309 18,487	4,015 2,254 1,388 18,429	3,864 2,145 1,415 18,407	3,866 2,183 1,398 18,434	3,755 2,095 1,308 18,296	3,754 2,119 1,317 18,544	3,792 2,183 1,248 18,619	3,757 2,299 1,213 18,589	3,503 2,019 1,188 18,653	3,419 1,913 1,168 18,687	3,404 2,031 1,136 18,667	3,340 1,910 1,157 18,634	3,417 1,927 1,148 18,674
Nonagricultural industries: Part time for economic reasons Slack work or business conditions Could only find part-time work Part time for noneconomic reasons	3,663 2,122 1,283 17,864	3,829 2,138 1,361 17,793	3,714 2,044 1,390 17,791	3,698 2,062 1,370 17,872	3,606 2,010 1,282 17,653	3,608 2,033 1,286 17,956	3,618 2,102 1,210 17,992	3,606 2,193 1,182 17,982	3,339 1,926 1,155 18,031	3,191 1,800 1,132 18,161	3,253 1,927 1,110 18,107	3,191 1,824 1,130 18,110	3,257 1,841 1,116 18,155

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data have been revised based on the experience through December 1998. See the article in this issue for additional information.

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

(In thousands)

	1997						19	98					
Age and sex	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	130,638	130,943	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526
16 to 24 years	19,293	19,553	19,540 6,997	19,492 7,003	19,615 6.990	19,568 7,011	19,569 7,069	19,471 7,042	19,490 7,029	19,676 7,130	19,757 7,059	19,705 7,037	19,859 7,228
16 to 19 years	6,837	7,000	2,779	2.804	2,797	2,746	2,710	2,752	2.730	2,788	2,721	2,709	2,808
16 to 17 years	2,665	2,806 4,196	4,206	4.206	4,189	4.264	4,392	4,302	4,286	4,339	4,332	4.340	4,419
18 to 19 years	4,170 12,456	12,553	12,543	12,489	12,625	12.557	12,500	12,429	12,461	12,546	12,698	12,668	12,631
20 to 24 years	111,323	111,417	111,442	111,397	111,669	111,810	111,681	111.679	111,820	112,115	112,126	112,409	112,654
25 years and over	94,895	95,055	95,079	95,063	95,168	95,181	95.134	95,102	95,212	95,364	95,309	95,623	95,822
25 to 54 years	16.454	16,355	16,421	16,383	16.478	16,553	16,503	16,647	16,607	16,783	16,771	16,781	16,871
55 years and over	10,434	10,333	10,421	10,000	10,470	10,000	10,000	10,047	10,001	10,700	,,,,,	.0,, 0.	.0,0.
Men, 16 years and over	70,133	70,387	70,411	70,295	70,695	70,603	70,592	70,629	70,503	70,841	70,925	71,182	71,204
16 to 24 years	9,982	10,149	10,128	10,133	10,213	10,138	10,203	10,118	10,141	10,206	10,246	10,332	10,347
16 to 19 years	3,497	3,495	3,484	3,526	3,522	3,519	3,598	3,573	3,563	3,579	3,563	3,609	3,651
16 to 17 years	1,360	1,449	1,401	1,433	1,428	1,384	1,381	1,396	1,377	1,393	1,348	1,380	1,405
18 to 19 years	2,133	2,058	2,087	2,100	2,101	2,131	2,247	2,180	2,177	2,172	2,213	2,218	2,243
20 to 24 years	6,485	6,654	6,644	6,607	6,691	6,619	6,605	6,545	6,578	6,627	6,683	6,723	6,696
25 years and over	60,131	60,243	60,258	60,152	60,467	60,502	60,380	60,508	60,444	60,617	60,680	60,840	60,843
25 to 54 years	51,043	51,180	51,186	51,160	51,311	51,273	51,182	51,205	51,167	51,232	51,299	51,606	51,502
55 years and over	9,117	9,069	9,113	9,015	9,124	9,207	9,162	9,327	9,238	9,386	9,340	9,311	9,374
Women, 16 years and over	60,505	60,556	60,610	60,613	6 0,585	60,727	60,661	60,547	60,761	60,977	60,933	60,931	61,322
16 to 24 years	9,311	9,404	9,412	9,359	9,402	9,430	9,366	9,353	9,349	9,470	9,511	9,373	9,512
16 to 19 years	3,340	3,505	3,513	3,477	3,468	3,492	3,471	3,469	3,466	3,551	3,496	3,428	3,577
16 to 17 years	1,305	1,357	1,378	1,371	1,369	1,362	1,329	1,356	1,353	1,395	1,373	1,329	1,403
18 to 19 years	2,037	2,138	2,119	2,106	2,088	2,133	2,145	2,122	2,109	2,167	2,119	2,122	2,176
20 to 24 years	5,971	5,899	5,899	5,882	5,934	5,938	5,895	5,884	5,883	5,919	6,015	5,945	5,935
25 years and over	51,192	51,174	51,184	51,245	51,202	51,308	51,301	51,171	51,376	51,498	51,446	51,569	51,811
25 to 54 years	43,852	43,875	43,893	43,903	43,857	43,908	43,952	43,897	44,045	44,132	44,010	44,017	44,320
55 years and over	7,337	7,286	7,308	7,368	7,354	7,346	7,341	7,320	7,369	7,397	7,431	7,470	7,497
	نـــــــــــــــــــــــــــــــــــــ												

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(In thousands)

A	1997						19	98					
Age and sex	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	6,448	6,345	6,363	6,432	5,952	6,039	6,245	6,231	6,217	6,263	6,258	6,080	6,021
16 to 24 years	2,287	2,375	2,350	2,321	2,122	2,215	2,329	2,267	2,366	2,400	2,320	2,171	2,153
16 to 19 years	1,122	1,158	1,203	1,225	1,087	1,167	1,226	1,162	1,226	1,278	1,318	1,237	1,172
16 to 17 years	577	584	622	572	521	535	593	513	565	596	607	595	573
18 to 19 years	556	559	567	655	576	640	634	646	669	679	704	646	611
20 to 24 years	1,165	1,217	1,147	1,096	1,035	1,048	1,103	1,105	1,140	1,122	1,002	934	981
25 years and over	4,162	4,011	3,999	4,115	3,815	3,845	3,901	3,930	3,865	3,894	3,931	3,879	3,864
25 to 54 years	3,668	3,576	3,561	3,661	3,365	3,385	3,455	3,437	3,419	3,416	3,475	3,377	3,340
55 years and over	469	457	450	476	434	423	432	483	449	464	4 6 6	516	517
Men, 16 years and over	3,429	3,332	3,324	3,362	3,028	3,189	3,274	3,360	3,251	3,361	3,264	3,163	3,233
16 to 24 years	1,229	1,285	1,317	1,280	1,135	1,263	1,276	1,289	1,286	1,374	1,255	1.190	1.247
16 to 19 years	576	677	692	685	585	665	678	678	673	754	713	713	717
16 to 17 years	307	322	360	322	269	309	356	307	320	352	357	344	349
18 to 19 years	266	350	327	364	329	361	332	365	360	386	351	373	364
20 to 24 years	653	608	625	595	550	598	598	611	613	620	542	477	530
25 years and over	2,201	2,049	1,997	2,068	1,898	1,949	1,991	2,068	1,983	1,994	2,006	1,952	1,987
25 to 54 years	1,881	1,789	1,734	1,805	1,640	1,677	1,748	1,777	1,739	1,711	1,739	1,652	1,688
55 years and over	319	279	268	275	250	238	238	288	247	286	276	296	300
Women, 16 years and over	3,019	3,013	3,039	3,070	2,924	2,850	2,971	2,871	2,966	2,902	2,994	2,917	2,788
16 to 24 years	1,058	1,090	1,033	1.041	987	952	1,053	978	1,080	1,026	1.065	981	906
16 to 19 years	546	481	511	540	502	502	548	484	553	524	605	524	4 5 5
16 to 17 years	270	262	262	250	252	226	237	206	245	244	250	251	224
18 to 19 years	290	209	240	291	247	279	302	281	309	293	353	273	247
20 to 24 years	512	609	522	501	485	450	505	494	527	502	460	457	451
25 years and over	1,961	1,962	2,002	2,047	1,917	1,896	1,910	1,862	1,882	1,900	1,925	1,927	1,877
25 to 54 years	1,787	1,787	1,827	1,856	1,725	1,708	1,707	1,660	1,680	1,705	1,736	1,725	1,652
55 years and over	150	178	182	201	184	185	194	195	202	178	190	220	217

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

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

(Percent)

	1997						19	98					
Age and sex	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	4.7	4.6	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3
16 to 24 years	10.6	10.8	10.7	10.6	9.8	10.2	10.6	10.4	10.8	10.9	10.5	9.9	9.8
16 to 19 years	14.1	14.2	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0
16 to 17 years	17.8	17.2	18.3	16.9	15.7	16.3	18.0	15.7	17.1	17.6	18.2	18.0	16.9
18 to 19 years	11.8	11.8	11.9	13.5	12.1	13.1	12.6	13.1	13.5	13.5	14.0	13.0	12.1
20 to 24 years	8.6	8.8	8.4	8.1	7.6	7,7	8.1	8.2	8.4	8.2	7.3	6.9	7.2
25 years and over	3.6	3.5	3.5	3.6	3.3	3.3	3.4	3.4	3.3	3.4	3.4	3.3	3.3
25 to 54 years	3.7	3.6	3.6	3.7	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.4
55 years and over	2.8	2.7	2.7	2.8	2.6	2.5	2.6	2.8	2.6	2.7	2.7	3.0	3.0
Men, 16 years and over	4.7	4.5	4.5	4.6	4.1	4.3	4.4	4.5	4.4	4.5	4.4	4.3	4.3
16 to 24 years	11.0	11.2	11.5	11.2	10.0	11.1	11.1	11.3	11.3	11.9	10.9	10.3	10.8
16 to 19 years	14,1	16.2	16.6	16.3	14.2	15.9	15.9	15.9	15.9	17.4	16.7	16.5	16.4
16 to 17 years	18.4	18.2	20.4	18.3	15.9	18.3	20.5	18.0	18.9	20.2	20.9	20.0	19.9
18 to 19 years	11.1	14.5	13.5	14.8	13.5	14.5	12.9	14.3	14.2	15.1	13.7	14.4	14.0
20 to 24 years	9.1	8.4	8.6	8.3	7.6	8.3	8.3	8.5	8.5	8.6	7.5	6.6	7.3
25 years and over	3.5	3.3	3.2	3.3	3.0	3.1	3.2	3.3	3.2	3.2	3.2	3.1	3.2
25 to 54 years	3.6	3.4	3.3	3.4	3.1	3.2	3.3	3.4	3.3	3.2	3.3	3.1	3.2
55 years and over	3.4	3.0	2.9	3.0	2.7	2.5	2.5	3.0	2.6	3.0	2.9	3.1	3.1
Women, 16 years and over	4.8	4.7	4.8	4.8	4.6	4.5	4.7	4.5	4.7	4.5	4.7	4.6	4.3
16 to 24 years	10.2	10.4	9.9	10.0	9.5	9.2	10.1	9.5	10.4	9.8	10.1	9.5	8.7
16 to 19 years	14.1	12.1	12.7	13.4	12.6	12.6	13.6	12.2	13.8	12.9	14.8	13.3	11.3
16 to 17 years	17.1	16.2	16.0	15.4	15.5	14.2	15.1	13.2	15.3	14.9	15.4	15.9	13.8
18 to 19 years	12.5	8.9	10.2	12.1	10.6	11.6	12.3	11.7	12.8	11.9	14.3	11.4	10.2
20 to 24 years	7.9	9.4	8.1	7.8	7.6	7.0	7.9	7.7	8.2	7.8	7.1	7.1	7.1
25 years and over	3.7	3.7	3.8	3.8	3.6	3.6	3.6	3.5	3.5	3.6	3.6	3.6	3.5
25 to 54 years	3.9	3.9	4.0	4.1	3.8	3.7	3.7	3.6	3.7	3.7	3.8	3.8	3.6
55 years and over	2.0	2.4	2.4	2.7	2.4	2.5	2.6	2.6	2.7	2.3	2.5	2.9	2.8

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

Catagoni	1997						19	98					
Category	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CHARACTERISTIC													
Total	4.7	4.6	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3
Men, 20 years and over	4.1	3.8	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6
Women, 20 years and over	4.1	4.2	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9
Both sexes, 16 to 19 years	14.1	14.2	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0
White	3.9	4.0	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8
Black and other	8.8	8.2	8.2	8.1	7.6	7.7	7.6	8.1	7.6	7.9	7.6	7.5	7.0
Black	10.1	9.4	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9
Hispanic origin	7.2	7.0	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6
Married men, spouse present	2.6	2.5	2.5	2.5	2.3	2.4	2.2	2.3	2.3	2.3	2.3	2.2	2.3
Married women, spouse present	2.9	3.0	3.0	3.2	2.8	2.8	2.9	2.8	3.1	2.7	2.8	2.9	2.8
Women who maintain families	7.8	7.6	7.5	7.5	7.5	7.5	7.1	6.9	6.8	7.6	6.9	6.9	6.3
OCCUPATION1							ļ ļ					Ì	
Managerial and professional specialty	1.9	1.9	2.0	1.8	1.9	1.7	1.7	1.7	1.9	1.8	1.9	1.8	1.8
Technical, sales, and administrative support	4.0	4.1	4.0	4.0	3.7	3.9	3.9	3.8	3.7	3.9	3.9	3.7	3.7
Precision production, craft, and repair	4.7	4.6	4.3	4.4	3.8	4.4	4.3	4.3	4.5	4.3	4.0	3.8	3.2
Operators, fabricators, and laborers	6.8	6.1	6.6	6.8	6.4	6.6	6.9	6.9	6.6	7.0	6.8	6.7	6.7
Farming, forestry, and fishing	6.9	6.7	6.4	6.9	6.1	6.5	6.4	6.6	5.9	7.0	5.4	6.3	7.5
INDUSTRY													
Nonagricultural private wage and salary workers	4.8	4.7	4.7	4.7	4.4	4.5	4.6	4.6	4.7	4.8	4.6	4.5	4.4
Goods-producing industries		4.8	4.8	5.0	4.5	4.6	4.7	4.8	4.8	5.1	4.6	4.6	4.6
Mining	2.6	3.7	2.7	3.4	2.9	1.6	4.0	3.9	3.6	3.0	2.4	2.2	4.3
Construction	9.3	8.1	8.0	8.4	6.6	8.0	7.9	6.8	7.4	8.6	6.7	7.0	6.4
Manufacturing	3.8	3.8	3.8	3.9	3.9	3.6	3.6	4.3	3.9	4.0	3.9	3.8	4.0
Durable goods	3.1	3.3	3.0	3.6	3.4	3.0	3.0	4.1	3.5	3.7	3.2	3.2	3.4
Nondurable goods	4.8	4.6	4.9	4.3	4.5	4.6	4.6	4.6	4.5	4.6	5.1	4.8	4.9
Service-producing industries	4.7	4.7	4.7	4.6	4.4	4.5	4.6	4.6	4.7	4.6	4.7	4.5	4.4
Transportation and public utilities		3.8	3.3	3.3	3.2	3.1	3.5	3.4	3.5	3.5	3.5	3.2	3.2
Wholesale and retail trade	5.8	5.8	5.7	5.5	5.4	5.3	5.6	5.6	5.6	5.7	5.6	5.2	5.5
Finance, insurance, and real estate	2.7	2.6	2.5	2.5	2.3	2.1	2.2	2.1	2.7	2.4	2.5	2.8	2.8
Services	4.6	4.4	4.6	4.7	4.3	4.7	4.6	4.6	4.7	4.5	4.7	4.6	4.1
Government workers	2.1	2.4	2.3	2.8	2.0	2.4	2.2	2.4	2.2	2.2	2.2	2.1	2.0
Agricultural wage and salary workers	9.4	10.3	8.5	9.2	8.0	8.0	8.4	8.2	7.4	7.9	6.7	7.6	8.3

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 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey. Data have been revised based on the experience through December 1998. See the article in this issue for additional information.

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

(Numbers in thousands)

	1997						19	98					
Reason	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
NUMBER OF UNEMPLOYED													
Job iosers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Job leavers Reentrants New entrants	2,966 955 2,011 715 2,193 549	2,826 862 1,964 792 2,215 524	2,827 836 1,991 773 2,206 538	2,950 966 1,984 745 2,187 544	2,706 723 1,983 641 2,115 518	2,822 816 2,006 749 2,081 505	2,832 851 1,981 754 2,112 517	2,865 931 1,934 770 2,072 474	2,834 937 1,897 734 2,124 507	2,865 909 1,956 727 2,161 501	2,813 857 1,956 730 2,142 577	2,758 850 1,908 677 2,130 534	2,754 841 1,913 709 2,031 504
PERCENT DISTRIBUTION													
Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Job leavers Reentrants New entrants UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE	46.2 14.9 31.3 11.1 34.1 8.5	44.5 13.6 30.9 12.5 34.8 8.2	44.6 13.2 31.4 12.2 34.8 8.5	45.9 15.0 30.9 11.6 34.0 8.5	45.3 12.1 33.2 10.7 35.4 8.7	45.8 13.3 32.6 12.2 33.8 8.2	45.6 13.7 31.9 12.1 34.0 8.3	46.4 15.1 31.3 12.5 33.5 7.7	45.7 15.1 30.6 11.8 34.3 8.2	45.8 14.5 31.3 11.6 34.6 8.0	44.9 13.7 31.2 11.7 34.2 9.2	45.2 13.9 31.3 11.1 34.9 8.8	45.9 14.0 31.9 11.8 33.9 8.4
Job losers and persons who completed temporary jobs Job leavers	2.2 .5 1.6 .4	2.1 .6 1.6 .4	2.1 .6 1.6 .4	2.1 .5 1.6 .4	2.0 .5 1.5 .4	2.1 .5 1.5 .4	2.1 .5 1.5 .4	2.1 .6 1.5 .3	2.1 .5 1.5 .4	2.1 .5 1.6 .4	2.0 .5 1.6 .4	2.0 .5 1.5 .4	2.0 .5 1.5 .4

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

have been revised based on the experience through December 1998. See the article in this issue for additional information.

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

(Numbers in thousands)

Durakina	1997						19	98			<u>.</u>		
Duration	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
NUMBER OF UNEMPLOYED													
Less than 5 weeks	2,558 1,962 1,926 921 1,005	2,520 1,976 1,811 802 1,009	2,598 1,931 1,804 849 955	2,792 1,971 1,728 830 898	2,626 1,929 1,461 605 856	2,608 1,967 1,509 671 838	2,553 2,022 1,641 833 808	2,626 1,975 1,606 783 823	2,652 1,956 1,644 810 834	2,638 1,968 1,636 732 904	2,754 1,896 1,598 732 866	2,546 1,983 1,611 752 859	2,614 1,839 1,578 754 824
Average (mean) duration, in weeks Median duration, in weeks	16.0 7.4	15.5 7.3	15.4 7.1	14.6 6.9	14.5 6.6	14.7 6.1	14.1 6.7	14.3 6.7	13.7 6.8	14.3 6.6	14.1 5.9	14.4 6.7	14.1 6.7
PERCENT DISTRIBUTION													
Total unemployed	100.0 39.7 30.4 29.9 14.3 15.6	100.0 40.0 31.3 28.7 12.7 16.0	100.0 41.0 30.5 28.5 13.4 15.1	100.0 43.0 30.4 26.6 12.8 13.8	100.0 43.7 32.1 24.3 10.1 14.2	100.0 42.9 32.3 24.8 11.0 13.8	100.0 41.1 32.5 26.4 13.4 13.0	100.0 42.3 31.8 25.9 12.6 13.3	100.0 42.4 31.3 26.3 13.0 13.3	100.0 42.3 31.5 26.2 11.7 14.5	100.0 44.1 30.3 25.6 11.7 13.9	100.0 41.5 32.3 26.2 12.2 14.0	100.0 43.3 30.5 26.2 12.5 13.7

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

					December	1998				
					Civil	lian labor for	ce			
Age, sex, and race	Civilian noninsti-				Emp	loyed		Unem	ployed	Na
	tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
TOTAL				}						
6 years and over	206,270	138,297	67.0	132,732	64.3	2,953	129,779	5,565	4.0	67,97
16 to 19 years		8,011	50.5	7,020	44.2	161	6,860	990	12.4	7,85
16 to 17 years		3,203	40.4	2,738	34.6	81	2,657	465	14.5	4,710
18 to 19 years20 to 24 years	7,950 17,687	4,808 13,514	60.5 76.4	4,283 12,633	53.9 71.4	80	4,203	525	10.9	3,14
25 to 54 years		99,268	84.3	96,046	81.5	260 1,914	12,374 94,132	880 3,222	6.5 3.2	4,17 18,52
25 to 34 years		32,610	84.7	31,344	81.4	636	30,707	1,267	3.2	5,90
25 to 29 years		15,808	85.2	15,156	81.6	317	14,839	651	4.1	2,75
30 to 34 years		16,802	84.2	16,187	81.1	319	15,868	615	3.7	3,14
35 to 44 years		37,675	85.0	36,470	82.2	719	35,751	1,205	3.2	6,67
35 to 39 years40 to 44 years	22,319 22,027	18,915 18,760	84.7 85.2	18,276 18,194	81.9 82.6	384 335	17,892 17,859	639 566	3.4 3.0	3,40
45 to 54 years	34,929	28,982	83.0	28,233	80.8	558	27,674	750	2.6	3,26 5,94
45 to 49 years	19,002	16,184	85.2	15,720	82.7	319	15,401	464	2.9	2,81
50 to 54 years		12,798	80.4	12,513	78.6	239	12,273	286	2.2	3,12
55 to 64 years	22,651	13,508	59.6	13,177	58.2	363	12,814	331	2.4	9,14
55 to 59 years		8,723 4,784	69.8 47.1	8,513 4,663	68.1 45.9	210	8,304	210	2.4	3,77
65 years and over		3,997	12.4	3,855	11.9	153 256	4,510 3,599	121 142	2.5 3.6	5,37 28,27
65 to 69 years		2,166	23.2	2,096	22.4	109	1,987	70	3.0	7,17
70 to 74 years	8,521	1,090	12.8	1,054	12.4	73	981	36	3.3	7.43
75 years and over	14,411	741	5.1	705	4.9	74	632	36	4.8	13,67
Men										
6 years and over		74,055	74.6	70,930	71.4	2,201	68,729	3,125	4.2	25,25
16 to 19 years		4,106 1,627	50.8 40.0	3,492 1,338	43.2 32.9	125 63	3,366	615	15.0	3,98
18 to 19 years		2,480	61.6	2,153	53.5	62	1,275 2,091	288 327	17.7 13.2	2,43 1,54
20 to 24 years	8,889	7,194	80.9	6,670	75.0	215	6,455	524	7.3	1,69
25 to 54 years	57,832	53,064	91.8	51,360	88.8	1,403	49,957	1,704	3.2	4,76
25 to 34 years		17,629	93.1	16,956	89.5	482	16,474	673	3.8	1,31
25 to 29 years	9,108 9,835	8,468 9,162	93.0 93.2	8,122	89.2	249	7,874	345	4.1	64
30 to 34 years		20,295	92.8	8,833 19,674	89.8 90.0	233 547	8,600 19,127	328 621	3.6 3.1	67 1,57
35 to 39 years	10,995	10,265	93.4	9,948	90.5	310	9,639	317	3.1	73
40 to 44 years	10,875	10,030	92.2	9,726	89.4	238	9,489	304	3.0	84
45 to 54 years		15,139	89.0	14,729	86.5	373	14,356	410	2.7	1,87
45 to 49 years	9,267	8,408	90.7	8,153	88.0	209	7,944	255	3.0	85
50 to 54 years	7,752 10,846	6,732 7,377	86.8 68.0	6,576	84.8	164	6,412	155	2.3	1,02
55 to 64 years55 to 59 years	6,015	4,674	77.7	7,166 4,543	66.1 75.5	254 144	6,913 4,399	210 131	2.9 2.8	3,46
60 to 64 years	4,831	2,702	55.9	2.623	54.3	110	2,514	79	2.9	2,12
65 years and over	13,653	2,314	17.0	2,243	16.4	204	2,039	71	3.1	11,33
65 to 69 years	4,285	1,239	28.9	1,203	28.1	84	1,119	36	2.9	3.04
70 to 74 years75 years and over	3,746 5,623	601 474	16.1 8.4	584 456	15.6 8.1	59 61	524 395	18 17	2.9 3.7	3,14 5,14
Women	-									
6 years and over	106,960	64,242	60.1	61,801	57.8	752	61,049	2,440	3.8	42,71
16 to 19 years	7,779	3,904	50.2	3,529	45.4	35	3,493	375	9.6	3,87
16 to 17 years	3,856	1,576	40.9	1,399	36.3	18	1,381	177	11.2	2,28
18 to 19 years	3,923 8,798	2,328 6,320	59.3 71.8	2,130 5,964	54.3 67.8	18 45	2,112 5,919	198 356	8.5	1,59 2,47
20 to 24 years25 to 54 years	59,957	46,204	77.1	44,687	74.5	512	44,175	1,517	5.6 3.3	13,75
25 to 34 years	19,570	14,981	76.5	14,388	73.5	154	14,234	593	4.0	4,59
25 to 29 years		7,340	77.6	7,034	74.4	69	6,965	306	4.2	2,11
30 to 34 years	10,116	7,641	75.5	7,354	72.7	86	7,268	287	3.8	2,47
35 to 44 years		17,380 8,651	77.3 76.4	16,796 8,328	74.7 73.5	172 75	16,624	585	3.4	5,09
35 to 39 years		8,730	78.3	8,468	75.9	75 97	8,253 8,371	323 262	3.7 3.0	2,67 2,42
45 to 54 years		13,843	77.3	13,503	75.4	185	13,318	340	2.5	4,06
45 to 49 years	9,735	7,776	79.9	7,567	77.7	110	7,456	209	2.7	1,95
50 to 54 years	8,175	6,067	74.2	5,936	72.6	75	5,861	130	2.1	2,10
55 to 64 years	11,804	6,131	51.9	6,010	50.9	109	5,901	120	2.0	5,67
55 to 59 years	6,481 5,324	4,049 2,082	62.5 39.1	3,970 2,040	61.3 38.3	65 44	3,905	79	1.9	2,43
60 to 64 years 55 years and over		1,683	9.0	1,612	8.7	51	1,996 1,561	42 71	2.0 4.2	3,24 16,93
65 to 69 years		927	18.3	893	17.7	25	868	34	3.7	4,13
70 to 74 years		488	10.2	470	9.8	13	457	18	3.7	4,28
		268	3.0	249	2.8	13	236			

See footnotes at end of table.

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

(Numbers in thousands)

					December	1998				
					Civil	lian labor for	се			
Age, sex, and race	Civilian				Emp	loyed		Unem	ployed	
rigo, con, and tase	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
WHITE										
16 years and over	172,197	115,796	67.2	111,647	64.8	2,784	108,863	4,149	3.6	56,401
16 to 19 years		6,705	53.4	5,962	47.4	156	5,807	743	11.1	5,863
16 to 17 years		2,737 3,968	43.7 62.9	2,378 3,585	38.0 56.8	81 75	2,297 3,510	360 383	13.1 9.7	3,523 2,340
18 to 19 years20 to 24 years		11,121	78.1	10,526	73.9	239	10,287	594	5.3	3,122
25 to 54 years		82,610	85.0	80,181	82.5	1,801	78,380	2,429	2.9	14,538
25 to 34 years	30,917	26,417	85.4	25,512	82.5	594	24,918	905	3.4	4,500
25 to 29 years		12,762	85.9	12,288	82.7 82.3	293 300	11,994	475	3.7	2,088
30 to 34 years		13,654 31,438	85.0 85.8	13,224	83.2	681	12,924 29,857	430 899	3.1 2.9	2,412 5,283
35 to 39 years		15,775	85.4	15,310	82.9	370	14,940	465	2.9	2,701
40 to 44 years		15,663	85.9	15,229	83.5	311	14,917	434	2.8	2,581
45 to 54 years		24,755	83.9	24,131	81.8	526	23,604	625	2.5	4,755
45 to 49 years		13,723	86.1 81.3	13,349	83.8 79.4	306 221	13,043	374 251	2.7	2,215
50 to 54 years55 to 64 years		11,033 11,815	60.4	10,782	79.4 59.0	347	10,561 11,200	268	2.3 2.3	2,540 7,753
55 to 59 years		7,618	70.8	7,447	69.2	198	7,249	171	2.2	3,147
60 to 64 years	8,803	4,197	47.7	4,100	46.6	149	3,951	97	2.3	4,606
65 years and over		3,545	12.4	3,430	12.0	241	3,189	115	3.2	25,125
65 to 69 years 70 to 74 years		1,908 971	23.6 12.9	1,846 948	22.8 12.5	105 64	1,740 884	62 23	3.3 2.4	6,174 6,582
75 years and over		666	5.1	637	4.9	72	565	29	4.4	12,369
Men										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6 years and over	83,748	63,116	75.4	60,722	72.5	2.073	58,650	2,394	3.8	20,632
16 to 19 years		3,454	53.6	2,998	46.5	120	2,877	457	13.2	2,993
16 to 17 years		1,395	43.2	1,171	36.3	63	1,108	224	16.0	1,835
18 to 19 years		2,060	64.0	1,827	56.8	57	1,769	233	11.3	1,158
20 to 24 years25 to 54 years	7,227 48,431	6,031 45,033	83.5 93.0	5,657 43,702	78.3 90.2	201 1,317	5,456 42,385	375 1,332	6.2 3.0	1,196 3,397
25 to 34 years		14,624	94.5	14,109	91.2	450	13,659	515	3.5	843
25 to 29 years	7,426	7,002	94.3	6,728	90.6	227	6,501	274	3.9	424
30 to 34 years		7,622	94.8	7,381	91.8	223	7,158	241	3.2	419
35 to 44 years		17,249 8,723	93.9 94.3	16,784 8,494	91.4 91.8	518 297	16,266 8,196	465 230	2.7 2.6	1,124 527
40 to 44 years		8,526	93.5	8.291	90.9	221	8,070	235	2.8	596
45 to 54 years		13,160	90.2	12,809	87.8	348	12,460	352	2.7	1,431
45 to 49 years		7,280	92.0	7,069	89.3	201	6,868	210	2.9	633
50 to 54 years		5,881	88.0	5,739 6,363	85.9 67.3	147 245	5,592	141 171	2.4	798
55 to 64 years55 to 59 years		6,533 4,149	69.1 79.3	4,042	77.2	139	6,118 3,903	107	2.6 2.6	2,918 1,085
60 to 64 years		2,384	56.5	2,321	55.0	106	2,215	64	2.7	1,832
65 years and over	12,191	2,064	16.9	2,004	16.4	191	1,813	60	2.9	10,127
65 to 69 years		1,095	29.2	1,062	28.3	80	982	33	3.0	2,659
70 to 74 years 75 years and over		538 431	16.0 8.5	525 417	15.6 8.2	50 60	474 357	13 13	2.5 3.1	2,818 4,651
Women										
6 years and over	88,449	52,680	59.6	50,924	57.6	711	50,213	1,755	3.3	35,769
16 to 19 years	6,120	3,251	53.1	2,965	48.4	35	2,929	286	8.8	2,870
16 to 17 years	3,030	1,343	44.3	1,207	39.8	18	1,189	136	10.1	1,688
18 to 19 years		1,908 5,089	61.8 72.5	1,758 4,869	56.9 69.4	18 39	1,741	150 220	7.9 4.3	1,182
20 to 24 years25 to 54 years		37,576	77.1	36,479	74.9	484	4,831 35,995	1,097	2.9	1,926 11,141
25 to 34 years		11,793	76.3	11,403	73.8	143	11,259	390	3.3	3,657
25 to 29 years	. 7,425	5,760	77.6	5,560	74.9	66	5,494	201	3.5	1,664
30 to 34 years		6,032	75.2	5,843	72.8	77	5,766	189	3.1	1,993
35 to 44 years		14,189 7,052	77.3 76.4	13,754 6,816	75.0 73.9	163 72	13,592 6,744	435 235	3.1 3.3	4,159 2,174
40 to 44 years		7,137	78.2	6,938	76.1	90	6,847	199	2.8	1,985
45 to 54 years	14,920	11,595	77.7	11,322	75.9	178	11,144	273	2.4	3,325
45 to 49 years	8,026	6,443	80.3	6,280	78.2	105	6,175	163	2.5	1,583
50 to 54 years		5,152	74.7	5,042	73.1	74	4,969	110	2.1	1,742
55 to 64 years		5,282 3,469	52.2 62.7	5,185 3,405	51.2 61.6	103 59	5,082	97 64	1.8	4,835
55 to 59 years		1,813	39.5	1,779	38.8	44	3,346 1,736	33	1.8 1.8	2,062 2,773
65 years and over		1,482	9.0	1,426	8.7	50	1,376	55	3.7	14,998
65 to 69 years	4,328	813	18.8	784	18.1	25	759	29	3.6	3,515
	4,197	433	10.3	423	10.1	13	410	10	2.2	3,765
70 to 74 years75 years and over		235	3.0	219	2.8	12	208	16	6.9	7.718

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)

					December	1998				
					Civi	lian labor for	:e			
Ass. 4	Civilian	- "			Emp	loyed		Unem	ployed	
Age, sex, and race	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
BLACK										
16 years and over	24,561	16,136	65.7	14,993	61.0	117	14,876	1,143	7.1	8,425
16 to 19 years	2,462	999	40.6	801	32.6	4	798	198	19.8	1,462
16 to 17 years		345	27.9	261	21.1	1 :	261	84	24.3	891
18 to 19 years		654 1,786	53.4	540	44.1	4	536	114	17.5	571
20 to 24 years 25 to 54 years		11,846	69.5 81.4	1,538 11,210	59.8 77.0	13 87	1,525 11,123	248 636	13.9 5.4	784 2,714
25 to 34 years		4,336	83.4	4.051	78.0	34	4,018	284	6.6	861
25 to 29 years	2,543	2,143	84.3	2,004	78.8	18	1,986	139	6.5	400
30 to 34 years		2,193	82.6	2,048	77.2	16	2,032	145	6.6	461
35 to 44 years		4,577	82.4	4,322	77.8	32	4,289	255	5.6	977
35 to 39 years		2,331 2,246	82.0 82.9	2,195	77.2	12	2,184	135	5.8	513
40 to 44 years		2,934	77.0	2,127 2,837	78.5 74.5	21 21	2,106 2,816	120 97	5.3 3.3	464 876
45 to 49 years		1,758	79.6	1,688	76.4	8	1,680	69	3.9	452
50 to 54 years	1,601	1,176	73.5	1,149	71.8	13	1,135	27	2.3	425
55 to 64 years		1,189	52.6	1,155	51.1	8	1,147	34	2.9	1,072
55 to 59 years		776	62.3	761	61.2	6	755	14	1.8	469
60 to 64 years 65 years and over		414 315	40.7 11.6	394 288	38.7 10.6	2 5	392 283	20 27	4.8	604
65 to 69 years		169	18.4	162	17.6	2	160	8	8.5 4.4	2,392 749
70 to 74 years		94	12.8	81	11.1	3	79	13	13.4	640
75 years and over	1,054	51	4.9	45	4.2	- 1	45	6	(1)	1,003
Men							=			
S years and over	11,018	7,523	68.3	6,945	63.0	89	6.856	578	7.7	3,495
16 to 19 years		475	39.3	353	29.2	4	349	122	25.7	734
16 to 17 years		166	26.8	119	19.2	-	119	47	28.3	454
18 to 19 years		309 819	52.5	234	39.7	4	230	75	24.3	280
20 to 24 years 25 to 54 years		5,536	69.5 84.1	693 5,239	58.9 79.6	7 68	686 5 173	126	15.3	359
25 to 34 years		1,992	85.7	1,872	80.5	23	5,172 1,849	296 120	5,4 6.0	1,047 333
25 to 29 years		984	87.5	930	82.6	15	914	55	5.5	141
30 to 34 years		1,008	84.0	942	78.5	8	935	66	6.5	193
35 to 44 years		2,175	85.6	2,047	80.5	26	2,021	128	5.9	367
35 to 39 years		1,125 1,050	86.8 84.2	1,056 990	81.5	12	1,045	69	6.1	171
40 to 44 years		1,369	79.8	1,321	79.5 77.0	14 19	976 1,302	60 48	5.7 3.5	196 347
45 to 49 years		819	81.7	783	78.1	6	777	36	4.4	183
50 to 54 years		550	77.1	538	75.4	26	525	12	2. t	164
55 to 64 years		531	54.3	509	52.0	5	503	22	4.2	447
55 to 59 years		333	61.5	326	60.1	3	322	8	2.3	209
60 to 64 years65 years and over		198 162	45.3 15.1	183 150	41.9 14.1	2 5	181 146	15 11	7.4	239
65 to 69 years		92	24.0	89	23.2	2	87	3	7.1 3.5	908 292
70 to 74 years		39	13.6	35	12.2	3	32	4	(1)	250
75 years and over		30	7.6	26	6.6	- :	26	4	(1)	366
Women										
6 years and over	13,543	8,613	63.6	8,048	59.4	29	8,020	565	6.6	4,930
16 to 19 years	1,252	524	41.8	448	35.8	- :	448	76	14.4	728
16 to 17 years	616	179	29.1	142	23.1	-	142	37	20.5	437
18 to 19 years		345	54.2	306	48.1		306	39	11.3	292
20 to 24 years 25 to 54 years		967 6,311	69.5 79.1	845 5,971	60.7 74.8	6 19	839 5,951	123 340	12.7 5.4	425 1.667
25 to 34 years		2,343	81.6	2,179	75.9	11	2,169	164	7.0	527
25 to 29 years		1,158	81.7	1,074	75.8	2	1,071	84	7.3	259
30 to 34 years	1,453	1,185	81.6	1,105	76.1	8	1,097	80	6.7	268
35 to 44 years	3,012	2,402	79.7	2,275	75.5	7	2,269	127	5.3	610
35 to 39 years		1,206	77.9	1,139	73.6		1,139	67	5.5	342
40 to 44 years		1,197 1,565	81.7 74.7	1,136 1,516	77.6 72.4	7 2	1,130 1,514	60 49	5.0 3.1	268
45 to 54 years45 to 49 years		939	77.7	905	72.4 75.0	2	903	33	3.1	530 269
50 to 54 years		626	70.6	611	68.8	_ [611	16	2.5	261
55 to 64 years		659	51.3	647	50.4	3	644	12	1.8	625
55 to 59 years	703	442	62.9	436	62.0	3	433	7	1.5	260
60 to 64 years	581	216	37.2	211	36.3	-	211	5	2.5	365
65 years and over		153	9.3	138	8.4	-	138	15	9.9	1,485
65 to 69 years		77	14.4	73	13.6	-	73	4	5.5	457
	1									390 637
65 to 69 years 70 to 74 years 75 years and over	445	55 21	14.4 12.3 3.2	73 46 19	13.6 10.4 2.8	- - -	73 46 19	9 2	5.5 (1) (1)	

¹ Data not shown where base is less than 75,000. NOTE: Beginning in January 1998, data reflect new composite estimation procedures

and revised population controls used in the household survey.

A-15. Employment status of the civilian noninstitutional population by race, sex, and age

(Numbers in thousands)

Employment status and	Т.	otal		years and ver) years and /er		Both sexes, 16 to 19 years		
race	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998		
TOTAL										
Civilian noninstitutional population Civilian labor force Percent of population Employed Agriculture Nonagricultural industries Unemployed Unemployment rate Not in labor force	204,098 136,742 67.0 130,785 3,103 127,682 5,957 4.4 67,356	206,270 138,297 67.0 132,732 2,953 129,779 5,565 4.0 67,973	90,339 69,350 76.8 66,524 2,151 64,373 2,826 4.1 20,989	91,220 69,949 76.7 67,439 2,076 65,363 2,510 3.6 21,272	98,300 59,834 60.9 57,647 788 56,859 2,187 3.7 38,466	99,181 60,337 60.8 58,273 717 57,556 2,065 3.4 38,844	15,459 7,558 48.9 6,614 164 6,450 944 12.5 7,901	15,868 8,011 50.5 7,020 161 6,860 990 12.4 7,858		
White					}	·	·			
Civilian noninstitutional population Civilian labor force Percent of population Employed Agriculture Nonagricultural industries Unemployed Unemployment rate Not in labor force	170,649 114,867 67.3 110,662 2,945 107,717 4,205 3.7 55,782	172,197 115,796 67.2 111,647 2,784 108,863 4,149 3.6 56,401	76,650 59,253 77.3 57,162 2,032 55,131 2,091 3.5 17,397	77,300 59,662 77.2 57,725 1,953 55,772 1,937 3.2 17,638	81,744 49,233 60.2 47,726 754 46,973 1,507 3.1 32,510	82,329 49,429 60.0 47,960 676 47,284 1,469 3.0 32,900	12,255 6,380 52.1 5,773 159 5,614 607 9.5 5,875	12,568 6,705 53.4 5,962 156 5,807 743 11.1 5,863		
Black										
Civilian noninstitutional population Civilian labor force Percent of population Employed Agriculture Nonagricultural industries Unemployed Unemployment rate Not in labor force	24,180 15,685 64.9 14,248 91 14,157 1,437 9.2 8,495	24,561 16,136 65.7 14,993 117 14,876 1,143 7.1 8,425	9,659 6,945 71.9 6,374 66 6,308 571 8.2 2,714	9,808 7,047 71.9 6,592 85 6,507 455 6.5 2,761	12,106 7,840 64.8 7,273 21 7,252 567 7.2 4,266	12,291 8,089 65.8 7,600 29 7,571 490 6.1	2,415 900 37.3 601 4 597 299 33.3 1,515	2,462 999 40.6 801 4 798 198 19.8		

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

	<u></u>				Decemb	er 1998				
					Civi	ilian labor fo	orce			
Enrollment status, educational	Civilian				Employed			Unemp	oloyed	
attainment, race, and Hispanic origin	noninsti- tutional population	Total	Percent of population	Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL ENROLLED										
Total, 16 to 24 years 16 to 19 years 20 to 24 years	12,474	9,198 5,530 3,668	49.9 44.3 61.5	8,456 4,929 3,526	1,655 477 1,178	6,800 4,453 2,348	742 600 142	137 78 59	605 522 83	8.1 10.9 3.9
High school College Full-time students Part-time students	9,189 7,900	3,828 5,370 4,270 1,100	41.4 58.4 54.1 85.3	3,322 5,133 4,098 1,036	253 1,402 771 632	3,069 3,731 3,327 404	506 237 172 65	52 85 48 37	454 151 124 28	13.2 4.4 4.0 5.9
Men, 16 to 24 years 16 to 19 years 20 to 24 years	. 6,262	4,430 2,647 1,784	48.1 42.3 60.6	3,984 2,275 1,709	878 237 641	3,107 2,038 1,069	446 372 74	53 36 18	392 336 56	10.1 14.0 4.2
High school College Full-time students Part-time students	. 4,303 . 3,696	1,969 2,461 1,921 541	40.2 57.2 52.0 89.1	1,644 2,340 1,829 511	133 745 415 330	1,511 1,595 1,414 181	324 121 92 30	25 28 18 10	299 93 74 19	16.5 4.9 4.8 5.5
Women, 16 to 24 years 16 to 19 years 20 to 24 years	. 6,211	4,768 2,883 1,885	51.6 46.4 62.4	4,471 2,654 1,817	777 240 538	3,694 2,415 1,279	296 228 68	84 43 41	213 186 27	6.2 7.9 3.6
High school College Full-time students Part-time students	4,886 4,204	1,859 2,909 2,349 560	42.8 59.5 55.9 82.0	1,678 2,793 2,269 525	120 658 356 302	1,558 2,136 1,913 223	181 115 80 35	26 57 31 27	155 58 50 8	9.7 4.0 3.4 6.3
White										
Total, 16 to 24 years 16 to 19 years 20 to 24 years	. 9,862	7,709 4,660 3,049	52.6 47.3 63.6	7,134 4,192 2,942	1,333 373 960	5,801 3,819 1,982	575 468 108	98 52 47	477 416 61	7.5 10.0 3.5
Men Women		3,724 3,986	50.7 54.5	3,382 3,752	716 617	2,666 3,135	342 233	34 65	308 168	9.2 5.8
High school College Full-time students Part-time students	7,405 6,378	3,231 4,478 3,595 883	44.6 60.5 56.4 86.0	2,837 4,298 3,464 833	204 1,129 626 503	2,633 3,169 2,838 331	395 181 131 50	38 60 36 24	356 120 95 25	12.2 4.0 3.6 5.6
Black										
Total, 16 to 24 years	1,898	1,064 657 408	39.7 34.6 52.3	928 545 384	237 83 154	692 462 230	136 112 24	36 26 10	100 86 14	12.8 17.1 5.9
Men Women		480 585	37.4 41.9	397 531	113 124	285 407	82 54	17 19	65 35	17.1 9.2
High school College Full-time students Part-time students	1,186 1,038	459 606 480 126	30.8 51.1 46.3 84.5	366 562 449 113	38 199 116 82	329 363 332 31	92 44 31 13	14 22 10 13	79 21 21 ~	20.1 7.2 6.5 10.0
Hispanic origin										
Total, 16 to 24 years	1,492	862 476 385	40.3 31.9 59.7	727 367 360	174 38 136	553 329 224	134 109 25	28 20 8	106 89 17	15.6 22.9 6.5
Men		393 469	36.5 44.2	333 394	87 87	246 307	59 75	12 16	48 58	15.1 16.0
High school	857 634	362 499 314 186	28.3 58.3 49.4 83.7	276 451 288 163	39 135 49 86	238 316 239 76	86 48 25 23	14 14 6 8	72 34 19 15	23.7 9.7 8.0 12.5

See footnotes at end of table.

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)

					Decembe	er 1998				
					Civi	lian labor fo	rce			
Enrollment status, educational	Civilian				Employed			Unem	oloyed	
attainment, race, and Hispanic origin	noninsti- tutional population	Total	Percent of population	Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	Perce of labor force
TOTAL NOT ENROLLED										
otal, 16 to 24 years		12,326	81.5	11,198	9,458	1,741	1,128	1,036	92	9
16 to 19 years20 to 24 years		2,481 9,845	73.1 84.0	2,091 9,107	1,556 7,901	535 1,206	390 738	338 698	52 40	15 7
ess than a high school diploma		2,593	66.8	2,093	1,689	404 839	500 485	443	57 22	19
High school graduates, no college Less than a bachelor's degree		5,571 2,837	84.4 87.9	5,085 2,738	4,247 2,320	418	99	463 88	11	8 3
College graduates		1,326	94.5	1,282	1,202	81	43	42	2	3
Men, 16 to 24 years		6,870	88.4	6,177	5,504	673	693	662	31	10
16 to 19 years		1,460 5,410	79.9 91.0	1,216 4,960	985 4,518	231 442	243 450	221 441	23 9	16
Less than a high school diploma		1,733	78.5	1,410	1,251	159	323	302	21 10	18
High school graduates, no college Less than a bachelor's degree		3,217 1,363	91.5 92.4	2,925 1,300	2,584 1,156	341 144	292 64	282 63	_ 10	9 4
College graduates		557	96.5	542	512	31	14	14	-	2
Women, 16 to 24 years		5,456	74.3	5,021	3,954	1,067	435	374 117	61 30	1 5
16 to 19 years		1,021 4,435	65.1 76.8	874 4,147	571 3,383	303 764	147 288	257	31	14
Less than a high school diploma		860	51.3	683	438	245	177	141	37	20
High school graduates, no college Less than a bachelor's degree		2,354 1,474	76.2 84.1	2,161 1,438	1,662 1,164	498 274	193 36	181 25	12 11	8
College graduates		769	93.1	740	690	50	29	27	2	3
White										
otal, 16 to 24 years		10,116 2,045	83.2 75.6	9,355 1,770	7,921 1,340	1,434 430	762 275	712 253	50 23	13
20 to 24 years		8,071	85.4	7,585	6,581	1,004	487	459	27	1
Men		5,762	91.0	5,273	4,726	547	489	478	11	8
Women		4,354	74.8	4,082	3,195	887	273	234	39	•
Less than a high school diploma High school graduates, no college		2,093 4,566	70.1 85.7	1,769 4,221	1,442 3,541	326 679	325 345	297 331	28 15	15
Less than a bachelor's degree	2,625	2,306	87.9	2,250	1,901	349	56	50 34	6	2
Coilege graduates	1,210	1,150	95.0	1,115	1,036	79	35	34	2	1
Black						_				
otal, 16 to 24 years16 to 19 years		1,721 343	73.1 60.7	1,411 257	1,162 173	249 83	310 86	275 64	35 22	18
20 to 24 years		1,379	77.0	1,155	989	166	224	211	13	16
Men		815 907	73.8 72.5	649 762	553 609	96 153	166 145	153 122	13 22	15
Less than a high school diploma		446	56.8	294	220	75	152	129	23	34
High school graduates, no college		780 407	76.8 89.2	659 372	523 333	136 39	121 35	113	8 5	15
College graduates		89	90.5	86	86	-	3	3	~	
Hispanic origin				ĺ						
otal, 16 to 24 years		2,215 520	76.4 69.4	1,975 447	1,714 347	261 100	240 73	230 69	10	10
16 to 19 years		1,695	78.9	1,528	1,367	162	166	161	5	'3
Men		1,429 786	88.3 61.4	1,283 693	1,163 550	119 142	147 93	147 83	- 10	10
		941	69.8	807	686	121	133	126	7	14
Less than a high school diploma	1,070	878	82.0	790	697	93	87	87	-	10
Less than a bachelor's degree		348 48	83.7 (1)	332 45	290 41	42 4	16	13	3	(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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

	To	otal	М	en	Wo	men	W	nite	Bla	ack	Hispan	c origin
Educational attainment	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
TOTAL												
Civilian noninstitutional population Civilian labor force	115,679 67.6 111,710 65.3 3.969	172,714 116,772 67.6 113,078 65.5 3,694 3.2	81,569 62,247 76.3 60,060 73.6 2,187 3.5	82,331 62,755 76.2 60,769 73.8 1,986 3.2	89,535 53,432 59.7 51,650 57.7 1,782 3.3	90,383 54,017 59.8 52,309 57.9 1,708 3.2	144,345 97,436 67.5 94,549 65.5 2,888 3.0	145,386 97,970 67.4 95,158 65.5 2,812 2.9	19,232 12,948 67.3 12,084 62.8 864 6.7	19,529 13,350 68.4 12,654 64.8 697 5.2	15,830 11,073 69.9 10,432 65.9 640 5.8	16,369 11,408 69.7 10,695 65.3 713 6.2
Less than a high school diploma		}										
Civilian noninstitutional population Civilian labor force Percent of population Employed Employed Unemployed Unemployed Unemployment rate	42.5 11,599	29,094 12,509 43.0 11,609 39.9 900 7.2	14,039 7,700 54.8 7,128 50.8 572 7.4	13,670 7,451 54.5 6,949 50.8 501 6.7	15,527 4,861 31.3 4,471 28.8 390 8.0	15,424 5,058 32.8 4,660 30.2 398 7.9	23,655 10,130 42.8 9,435 39.9 695 6.9	23,418 10,105 43.1 9,423 40.2 681 6.7	4,570 1,832 40.1 1,607 35.2 226 12.3	4,454 1,813 40.7 1,635 36.7 178 9.8	6,949 4,079 58.7 3,752 54.0 327 8.0	7.177 4.185 58.3 3,822 53.3 364 8.7
High school graduates, no college				,								
Civilian noninstitutional population Civilian labor force	65.8 36,444 63.2	57,115 37,442 65.6 36,066 63.1 1,376 3.7	26,108 20,025 76.7 19,198 73.5 827 4.1	26,073 19,932 76.4 19,188 73.6 744 3.7	31,523 17,916 56.8 17,246 54.7 670 3.7	31,042 17,510 56.4 16,878 54.4 632 3.6	48,791 31,771 65.1 30,704 62.9 1,067 3.4	48,292 31,349 64.9 30,340 62.8 1,009 3.2	6,956 4,875 70.1 4,521 65.0 354 7.3	6,892 4,844 70.3 4,557 66.1 286 5.9	4,359 3,285 75.4 3,079 70.6 205 6.3	4,472 3,383 75.7 3,195 71.4 189 5.6
Less than a bachelor's degree ¹												
Civillan noninstitutional population Civilian labor force	31,440 74.7 30,464 72.4 976	43,022 31,933 74.2 31,080 72.2 853 2.7	19,592 15,939 81.4 15,469 79.0 469 2.9	19,908 16,087 80.8 15,648 78.6 439 2.7	22,493 15,501 68.9 14,995 66.7 506 3.3	23,114 15,846 68.6 15,432 66.8 414 2.6	35,719 26,483 74.1 25,794 72.2 689 2.6	36,269 26,625 73.4 25,986 71.6 639 2.4	4,851 3,811 78.6 3,583 73.9 228 6.0	5,133 4,106 80.0 3,925 76.5 181 4.4	2,803 2,277 81.2 2,200 78.5 77 3.4	2,919 2,347 80.4 2,235 76.6 112 4.8
Some college, no degree												
Civilian noninstitutional population Civilian labor force	29,512 21,365 72.4 20,645 70.0 720 3.4	29,850 21,459 71.9 20,860 69.9 599 2.8	14,052 11,186 79.6 10,836 77.1 350 3.1	14,098 11,141 79.0 10,840 76.9 302 2.7	15,459 10,179 65.8 9,809 63.4 370 3.6	15,751 10,318 65.5 10,021 63.6 297 2.9	24,891 17,870 71.8 17,379 69.8 491 2.7	25,030 17,716 70.8 17,274 69.0 442 2.5	3,589 2,744 76.5 2,561 71.4 183 6.7	3,750 2,951 78.7 2,816 75.1 135 4.6	2,005 1,608 80.2 1,556 77.6 52 3.3	2,136 1,699 79.5 1,622 75.9 77 4.5
Associate degree			,									
Civilian noninstitutional population Civilian labor force	255	13,173 10,473 79.5 10,220 77.6 253 2.4	5,539 4,753 85.8 4,634 83.7 119 2.5	5,810 4,945 85.1 4,808 82.8 137 2.8	7,034 5,322 75.7 5,186 73.7 136 2.6	7,363 5,528 75.1 5,411 73.5 116 2.1	10,828 8,614 79.5 8,415 77.7 198 2.3	11,239 8,909 79.3 8,712 77.5 197 2.2	1,263 1,067 84.5 1,022 80.9 45 4.2	1,384 1,155 83.5 1,110 80.2 46 4.0	798 668 83.8 644 80.7 24 3.6	783 649 82.8 613 78.3 36 5.5
College graduates												
Civilian noninstitutional population Civilian labor force	33,204 79.4 535	43,484 34,889 80.2 34,323 78.9 566 1.6	21,830 18,584 85.1 18,265 83.7 319 1.7	22,681 19,285 85.0 18,984 83.7 302 1.6	19,992 15,155 75.8 14,939 74.7 217 1.4	20,803 15,603 75.0 15,339 73.7 264 1.7	36,180 29,052 80.3 28,616 79.1 436 1.5	37,407 29,892 79.9 29,410 78.6 482 1.6	2,856 2,430 85.1 2,374 83.1 56 2.3	3,050 2,588 84.9 2,537 83.2 51 2.0	1,719 1,432 83.3 1,401 81.5 32 2.2	1,801 1,492 82.8 1,444 80.2 48 3.2

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(In thousands)

Age, sex, and race TOTAL Total, 16 years and over	Total	·	ne workers t work 1 to 34 hours for economic or	Not	ployed1	T	e workers vork ²		Unem	ployed
TOTAL Total, 16 years and over	Total	35 hours or	1 to 34 hours for economic			T	·			
TOTAL Total, 16 years and over	Total	35 hours or	1 to 34 hours for economic			At w	/ork ²		}	l
Total, 16 years and over	Total	hours or	hours for economic						Looking	Looking
Total, 16 years and over		,	noneconomic reasons	at work	Total	Part time for economic reasons	Part time for noneconomic reasons	Not at work	for full-time work	for part-time work
Total, 16 years and over										
6 to 19 years	. 108,780	97,922	8,379	2,479	23,952	2,285	20,583	1.085	4,452	1,113
		1,760	253	20	4,987	230	4,617	140	416	574
16 to 17 years	. 214	164	46	3	2,524	25	2,438	61	74	392
18 to 19 years		1,596	206	18	2,463	205	2,179	79	343	182
20 years and over	. 106,746	96,162	8,126	2,458	18,965	2,055	15,965	945	4,036	539
20 to 24 years		8,115	772	193	3,554	390	3,037	127	757	124
25 years and over		88,048	7,354	2,266	15,411	1,665	12,928	818	3,279	416
25 to 54 years		77,046	6,221	1,802	10,977	1,475	8,948	554	2,961	260
55 years and over		11,001	1,133	463	4,434	190	3,981	264	318	155
Men, 16 years and over	. 63,209	57,651	4,184	1,373	7,722	1,057	6,357	308	2,574	551
6 to 19 years		1,071	137	14	2,269	119	2,084	66	256	359
0 years and over	. 61,986	56,580	4,047	1,359	5,453	938	4,273	242	2,317	192
20 to 24 years	. 5,159	4,663	404	91	1,511	198	1,265	48	459	65
25 years and over		51,917	3,643	1,267	3,942	740	3,008	194	1,858	127
25 to 54 years		45,147	3,042	1,007	2,163	666	1,418	79	1,639	65
55 years and over		6,770	600	260	1,779	74	1,590	115	219	62
Women, 16 years and over	. 45,571	40,271	4,194	1,106	16,230	1,228	14,226	777	1,878	562
6 to 19 years		689	115	. 6	2,718	111	2,533	74	160	215
O years and over		39,582	4,079	1,100	13,512	1,117	11,693	703	1,718	347
20 to 24 years		3,451	368	102	2,043	191	1,772	79	298	59
25 years and over		36,131	3,711	998	11,469	926	9,920	624	1,420	288
25 to 54 years		31,900	3,178	795	8,814	809	7,530	475	1,322	195
55 years and over		4,231	533	203	2,655	116	2,391	148	98	93
White			[
Men, 16 years and over	. 54,124	49,374	3,607	1,143	6,598	828	5,495	275	1,969	424
6 to 19 years		921	119	12	1,945	98	1,796	51	182	275
O years and over		48,453	3,488	1,131	4,653	730	3,699	224	1,787	150
20 to 24 years		3,960	354	75	1,268	157	1,065	45	330	44
25 years and over		44,493	3,134	1,056	3,385	573	2,634	178	1,457	105
25 to 54 years		38,518	2,590	834	1,760	506	1,178	75	1,276	56
55 years and over		5,976	544	222	1,625	66	1,456	103	181	49
Women, 16 years and over	. 36,736	32,399	3,468	869	14,188	936	12,576	676	1,316	439
6 to 19 years	. 661	555	100	6	2,304	90	2,159	55	123	163
Dyears and over	. 36,075	31,844	3,368	863	11,884	846	10,418	621	1,194	275
20 to 24 years		2,785	295	72	1,718	154	1,497	68	176	44
25 years and over	. 32,924	29,059	3,073	791	10,167	692	8,921	554	1,018	232
25 to 54 years		25,453	2,619	622	7,785	597	6,768	420	935	162
55 years and over	. 4,229	3,606	454	169	2,382	95	2,154	134	83	70
	0.405	5.504	400	4-4	750	100				
Men, 16 years and over6 to 19 years		5,581 117	462 10	151 -	750 226	180 17	549 197	21 12	487 61	91 62
0 vears and over	6,068	5,465	453	151	524	163	351	10	426	29
20 to 24 years		490	42	7	154	37	117	_,0	109	16
25 years and over		4,975	410	144	370	126	234	10	317	13
25 to 54 years		4,496	361	120	262	121	140		292	13
55 years and over		479	49	24	108	5	94	10	24	9
Women, 16 years and over	. 6,573	5,837	573	163	1,476	247	1,149	80	462	103
6 to 19 years		115	14	_	319	16	290	12	29	46
O years and over		5,721	559	163	1,157	231	858	68	433	56
20 to 24 years		511	66	26	241	31	199	12	112	11
25 years and over		5,210	493	137	915	201	659	56	321	46
25 to 54 years		4,742	427	116	686	179	466	41	317	23
55 years and over		468	66	21	229	22	192	15	317	23

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

A-19. Employed persons by occupation, sex, and age

(in thousands)

	To	otal		M	en		Women			
Occupation		ears over		ears over	20 y and		16 y and		20 y and	
	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
Total	130,785	132,732	69,849	70,930	66,524	67,439	60,936	61,801	57,647	58,273
Managerial and professional specialty	38,416	40,007	19,582	20,266	19,473	20,156	18,834	19,741	18,688	19,557
Executive, administrative, and managerial		19,415	10,348	10,729	10,300	10,686	8,315	8,686	8,280	8,642
Officials and administrators, public administration		840	417 7,944	463 8,209	416 7,902	463	311 5,328	377 5,498	311	373
Other executive, administrative, and managerial		13,707 4,868	1,986	2,057	1,982	8,170 2,053	2,676	2,811	5,297 2,671	5,461 2.808
Professional specialty		20,592	9,234	9,537	9,173	9,471	10,519	11,055	10,408	10,914
Engineers		2,121	1,851	1,888	1,852	1,886	181	233	181	233
Mathematical and computer scientists		1,743	1,118	1,189	1,115	1,181	457	554	451	554
Natural scientists		603	331	430	331	430 839	167 246	174 261	167 246	174
Health diagnosing occupations Health assessment and treating occupations		1,100 2,997	817 405	839 415	817 405	415	2,558	2,582	2,555	258
Teachers, college and university	· ·	1,033	528	544	521	540	398	489	398	481
Teachers, except college and university	5,010	5,188	1,252	1,378	1,234	1,362	3,759	3,810	3,710	3,765
Lawyers and judges	985	925	712	647	712	647	273	278	273	278
Other professional specialty occupations	4,701	4,881	2,221	2,208	2,187	2,171	2,480	2,674	2,427	2,592
Fechnical, sales, and administrative support		38,517	13,899	13,794	13,077	12,889	24,892	24,723	23,143	22,779
Technicians and related support		4,137	2,028	1,869	1,999	1,827	2,183	2,269	2,152	2,239
Health technologists and technicians	1	1,691	1,016	316 805	291 999	304 783	1,354 286	1,375 297	1,342 274	1,348
Technicians, except health, engineering, and science		1,345	719	748	709	739	543	597	536	59
Sales occupations		16,189	7,936	7,981	7,366	7,375	8,141	8,208	6,946	6,90
Supervisors and proprietors		4,803	2,794	2,911	2,776	2,883	1,790	1,892	1,750	1,85
Sales representatives, finance and business services		2,733	1,462	1,563	1,451	1,532	1,230	1,170	1,207	1,138
Sales representatives, commodities, except retail		1,543 7,031	1,201	1,169	1,195	1,159 1,776	417 4,620	374 4,718	411 3,505	359
Sales workers, retail and personal services		7,031	2,446 33	2,313	1,911	24	4,620	54	73	5,496
Administrative support, including clerical	1	18,190	3,935	3.944	3,712	3,688	14,568	14,246	14.044	13.63
Supervisors	'	702	291	290	291	289	419	412	414	410
Computer equipment operators		373	146	183	144	181	254	190	249	18
Secretaries, stenographers, and typists		3,452	85 168	100 203	73 161	91 199	3,552 2,007	3,352	3,454	3,269
Financial records processing	1 '	984	605	599	581	589	365	385	354	373
Other administrative support, including clerical	1	10,459	2,639	2,571	2,462	2,338	7,971	7,889	7,589	7,408
Service occupations		17,873	7,093	7,094	6,140	6,129	10,645	10,779	9,498	9,65
Private household		2,356	1,925	1,936	53 1,886	1,885	822 398	821 420	732 378	74 40
Service, except private household and protective		14,647	5,103	5,109	4,201	4,200	9,424	9,538	8,388	8,51
Food service	6,148	6,140	2,619	2,699	1,909	1,983	3,529	3,441	2,820	2,76
Health service		2,447	298	252	285	228	2,234	2,196	2,115	2,11
Cleaning and building service Personal service	3,037 2,812	3,006 3,053	1,676	1,635 524	1,540 467	1,509 480	1,360 2,301	1,372 2,529	1,300 2,153	1,30 2,32
Precision production, craft, and repair	14,213	14,586	12,951	13,279	12,646	12,941	1,262	1,308	1,246	1,27
Mechanics and repairers	. 4,828	4,875	4,644	4,700	4,517	4,566	184	175	181	17.
Construction trades Other precision production, craft, and repair	. 5,298 . 4,087	5,665 4,047	5,187 3,120	5,529 3,050	5,051 3,078	5,374 3,001	967	136 997	955 955	134 967
	1	18,702	13,815	14,066	12,843	13,055	4,680	4,636	4,469	4.42
Operators, fabricators, and laborers		7,787	4,820	4,899	4,643	4,735	3,077	2,889	3,002	2,82
Transportation and material moving occupations		5,633	4,969	5,028	4,855	4,901	527	605	515	60
Motor vehicle operators	4,276	4,367	3,805	3,839	3,708	3,736	471	528	459	52
Other transportation and material moving occupations		1,266	1,164	1,189	1,147	1,165	56	77	56	7
Handlers, equipment cleaners, helpers, and laborers		5,282 799	4,025	4,139	3,345	3,419	1,076	1,143	951	99
Construction laborers Other handlers, equipment cleaners, helpers, and laborers		4,482	3,319	3,370	2,693	2,718	1,048	1,112	925	96
Farming, forestry, and fishing	3,132		2,509	2,431	2,345	2,268	622	615	602	58
Farm operators and managers	. 1,282		977	813	974	810	306	267	306	26
Other farming, forestry, and fishing occupations	. 1,849	1,966	1,533	1,618	1,371	1,458	316	348	296	32

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Percent distribution)

	To	otal	М	en	Woi	men
Occupation and race	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
TOTAL						
Total, 16 years and over (thousands)		132,732 100.0	69,849 100.0	70,930 100.0	60,936 100.0	61,801 100.0
Managerial and professional specialty		30.1	28.0	28.6	30.9	31.9
Executive, administrative, and managerial	14.3	14.6	14.8	15.1	13.6	14.1
Professional specialty	15.1 29.7	15.5 29.0	13.2 19.9	13.4 19.4	17.3 40.8	17.9 40.0
Fechnical, sales, and administrative support Technicians and related support		3.1	2.9	2.6	3.6	3.7
Sales occupations		12.2	11.4	11.3	13.4	13.3
Administrative support, including clerical		13.7	5.6	5.6	23.9	23.1
Service occupations	13.6	13.5	10.2	10.0	17.5	17.4
Private household		.7	(1)	.1	1.3	1.3
Protective service		1.8	2.8	2.7	.7	.7
Service, except private household and protective		11.0	7.3 18.5	7.2 18.7	15.5 2.1	15.4 2.1
Precision production, craft, and repair		14.1	19.8	19.8	7.7	7.5
Machine operators, assemblers, and inspectors		5.9	6.9	6.9	5.0	4.7
Transportation and material moving occupations	4.2	4.2	7.1	7.1	.9	1.0
Handlers, equipment cleaners, helpers, and laborers	3.9	4.0	5.8	5.8	1.8	1.8
Farming, forestry, and fishing	2.4	2.3	3.6	3.4	1.0	1.0
White		1				
Total, 16 years and over (thousands)		111,647 100.0	60,128 100.0	60,722 100.0	50,534 100.0	50,924 100.0
Managerial and professional specialty		31.1	28.8	29.5	32.1	33.1
Executive, administrative, and managerial		15.3	15.5	15.9	14.2	14.5
Professional specialty		15.9	13.3	13.5	17.9	18.7
Technical, sales, and administrative support		29.1	19.9 2.9	19.4 2.6	41.5 3.6	40.6 3.7
Technicians and related support Sales occupations	1	12.4	11.8	11.6	13.7	13.5
Administrative support, including clerical	1	13.5	5.3	5.2	24.1	23.4
Service occupations	1	12.3	9.1	9.0	16.3	16.3
Private household		.6	(1)	1	1.3	1.3
Protective service		1.7	2.6	2.6	.5	.6
Service, except private household and protective		10.0	6.5 19.2	6.3 19.5	14.4 1.9	14.4 2.0
Precision production, craft, and repair		13.4	19.0	18.9	7.0	6.9
Machine operators, assemblers, and inspectors	5.7	5.5	6.7	6.6	4.5	4.3
Transportation and material moving occupations	. 4.1	4.1	6.9	6.9	.8	.9
Handlers, equipment cleaners, helpers, and laborers	. 3.7	3.8	5.5	5.5	1.7	1.8
Farming, forestry, and fishing	2.6	2.5	3.9	3.7	1.1	1.1
Black						
Total, 16 years and over (thousands)		14,993 100.0	6,618 100.0	6,945 100.0	7,630 100.0	8,048 100.0
Managerial and professional specialty	20.5	20.9	17.8	18.1	22.8	23.3
Executive, administrative, and managerial	9.5	10.1	8.7	9.4	10.2	10.6
Professional specialty Technical, sales, and administrative support	11.0 29.5	10.8	9.1	8.6 18.4	12.6 38.9	12.7 38.0
Technical, sales, and administrative support		3.0	2.5	2.4	30.9	3.4
Sales occupations		10.1	7.7	7.9	11.1	12.0
Administrative support, including clerical	. 17.2	15.8	8.5	8.1	24.7	22.5
Service occupations	. 21.9	21.7	17.9	17.2	25.3	25.5
Private household		.9 2.7	.1 4.7	.1 4.2	1.8 1.5	1.6 1.5
Protective service		18.0	13.1	13.0	22.0	22.4
Precision production, craft, and repair		7.9	14.3	14.5	2.1	2.2
Operators, fabricators, and laborers		19.5	29.8	29.9	10.6	10.6
Machine operators, assemblers, and inspectors	8.3	8.1	9.6	10.1	7.1	6.4
Transportation and material moving occupations	. 5.8	5.8	10.9	10.4	1.5	1.8
Handlers, equipment cleaners, helpers, and laborers	. 5.4	5.6	9.3	9.4	2.0	2.4
Farming, forestry, and fishing	. .9	1.1	1.5	1.9	.4	.5

Less than 0.05 percent. NOTE: Beginning in January 1998, data reflect new composite estimation

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

A-21. Employed persons by industry and occupation

(In thousands)

							Decemb	er 1998					
	Managerial and Technical, sales, at professional administrative specialty support		tive			Preci-							
Industry	Total em- ployed	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	sion produc- tion, craft, and repair	Machine oper- ators, assem- blers, and inspec- tors	Transpor- tation and material moving	Handlers, equipment cleaners, helpers, and laborers	Farming, forestry, and fishing
Agriculture	2,953	140	89	33	20	121	_	9	38	19	38	22	2.423
Mining	568	85	67	11	7	45	_	9	183	29	107	24	_, _,
Construction	8,670	1,436	142	53	80	384		17	5,002	108	545	894	2 9
Manufacturing	20,547	2.936	2.059	670	779	1,815	_	258	3,939	6,266	753	980	91
Durable goods		1,736	1,398	440	325	989	_	129	2,801	3,724	371	521	87
Nondurable goods	8,026	1,200	661	230	455	826	_	129	1.137	2,542	382	460	4
Transportation and public	-,	,							',	2,012	002	1 700	7
utilities	9,675	1,320	554	375	284	2,472	_	314	1,403	111	2,357	469	17
Wholesale and retail trade	28,037	2,529	631	269	11688	2,278	- :	5,184	1,507	381	1,168	2,302	99
Wholesale trade	5,233	607	153	39	2,073	809		52	349	124	539	422	69
Retail trade	22,804	1,922	478	230	9,615	1,470	-	5,132	1,159	256	630	1,881	31
Finance, insurance, and							}	', -			1	.,)
real estate	8,727	2,626	376	174	2,165	2,789	-	309	176	15	14	31	52
Services	47,507	6,860	15,672	2,346	1,134	7,005	870	9,193	2,136	822	626	518	324
Private households	963	-	10	_	-	1	870	51	_	_	3	11	17
Other service industries	46,543	6,860	15,662	2,346	1,134	7,004	~	9,142	2,136	822	623	507	307
Professional services	31,834	4,162	13,601	1,968	196	5,107	-	5,645	478	170	357	83	67
Public administration	6,047	1,483	1,001	207	31	1,281	l - i	1,710	203	36	25	40	29

¹ Includes protective service, not shown separately.
NOTE: Beginning in January 1998, data reflect new composite estimation

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

(In thousands)

					Dece	mber 1998				
		Agriculture				Nonag	gricultural ind	lustries		
Are and say					Wa	ge and salary v	vorkers			
Age and sex	Wage and	Self-	Unpaid family		Private industries				Self-	Unpaid
	salary workers	employed workers	workers	Total	Total	Private household workers	Other private industries	Government	employed workers	family workers
Total, 16 years and over	1,683 137 68 70 233 464 403 267 125 54 1,257 110 52 58 190 346 311 168 95 39	1,241 16 11 6 17 168 313 289 236 202 924 9 9 - 16 132 237 205 159 166	29 7 2 4 9 4 3 3 2 20 7 2 4 9 4	120,917 6,769 2,632 4,137 12,145 29,294 33,147 25,206 11,437 2,918 63,356 3,356 3,356 1,268 2,052 6,336 15,635 17,576 12,874 6,030 1,585	102,015 6,431 2,531 3,900 11,116 25,572 27,823 19,540 9,058 2,475 54,913 3,152 1,213 1,939 5,890 13,904 15,273 10,443 4,884 1,367	962 93 63 30 110 191 217 174 120 57 83 10 5 5 8 18 22 9	101,053 6,339 2,468 3,870 11,006 25,380 27,606 19,366 8,938 2,417 54,830 3,142 1,208 1,934 5,882 13,886 15,251 10,434 4,876 1,359	18,902 338 100 237 1,029 3,723 5,325 5,666 2,379 444 8,443 167 54 113 447 1,731 2,303 2,431 1,146 218	8,745 91 25 66 220 1,398 2,564 2,442 1,366 665 5,336 47 8 39 111 838 1,536 1,477 880 446	117
Women, 16 years and over	426 28 16 12 44 118 93 99 30	318 8 2 6 1 37 76 84 76 36	8 3 3 2 -	57,561 3,450 1,364 2,086 5,808 13,659 15,571 12,332 5,407 1,333	47,101 3,279 1,318 1,961 5,226 11,667 12,550 9,097 4,174 1,108	879 82 58 25 102 173 195 165 111 50	46,223 3,197 1,261 1,936 5,124 11,494 12,355 8,932 4,063 1,058	10,459 170 46 125 582 1,992 3,022 3,235 1,233 226	3,409 44 17 27 108 560 1,028 965 486 218	80 - - 2 15 24 21 8

NOTE: Beginning in January 1998, data reflect new composite estimation

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

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

			Decemb	er 1998			
Hours of work		Thousands of pe	ersons	Percent distribution			
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries	
Total, 16 years and over	129,168	2,786	126,383	100.0	100.0	100.0	
to 34 hours	30,260	899	29,361	23.4	32.3	23.2	
1 to 4 hours	1,042	61	980	.8	2.2	.8	
5 to 14 hours	5,130	209	4,921	4.0	7.5	3.9	
15 to 29 hours	15,210	411	14,799	11.8	14.8	11.7	
30 to 34 hours	8,878	217	8,661	6.9	7.8	6.9	
5 hours and over	98,908	1,886	97,022	76.6	67.7	76.8	
35 to 39 hours	8,537	140	8,396	6.6	5.0	6.6	
40 hours	47,768	700	47,068	37.0	25.1	37.2	
41 hours and over	42,603	1,046	41,558	33.0	37.5	32.9	
41 to 48 hours	15,348	238	15,110	11.9	8.5	12.0	
49 to 59 hours	16,016	374	15,643	12.4	13.4	12.4	
60 hours and over	11,239	434	10,805	8.7	15.6	8.5	
Average hours, total at work	39.8	39.9	39.8	_	_		
Average hours, persons who usually work full time	43.9	45.7	43.9	_	-	_	

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and 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)

			Decemb	er 1998			
		All industries		Nonagricultural industries			
Reason for working less than 35 hours	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time	
Total, 16 years and over	30,260	8,379	21,882	29,361	8,044	21,317	
Economic reasons	3,455	1,343	2,112	3,242	1,195	2,047	
Slack work or business conditions	2,005	1,047	958	1,901	961	939	
Could only find part-time work	1,088	-	1,088	1,057	-	1,057	
Seasonal work	207	142	65	134	83	51	
Job started or ended during week	154	154	-	150	150	-	
Ioneconomic reasons	26,806	7,035	19,770	26,119	6,849	19,270	
Child-care problems	910	106	804	898	104	794	
Other family or personal obligations	5,726	709	5,017	5,584	692	4,892	
Health or medical limitations	696		696	668	_	668	
In school or training	7,287	104	7,183	7,162	102	7,060	
Retired or Social Security limit on earnings	2,076	_	2,076	1,970	_	1,970	
Vacation or personal day	2,740	2,740	- :	2,696	2,696	_	
Holiday, legal or religious	87	87	- :	82	82] –	
Weather-related curtailment	297	297		245	245	-	
All other reasons	6,987	2,993	3,994	6,814	2,927	3,887	
Average hours:							
Economic reasons	23.4	24.5	22.6	23.4	24.5	22.7	
Other reasons	21.2	26.0	19.5	21.3	26.1	19.6	

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

				Decen	ber 1998			
			Worked 1	to 34 hours			Avera	ge hours
Industry and class of worker	Total			1	conomic sons	Worked		_
	at work	Total	For economic reasons	Usually work full time	Usually work part time	35 hours or more	Total at work	Persons who usually work full time
Total, 16 years and over	126,383	29,361	3,242	6,849	19,270	97,022	39.8	43.9
Wage and salary workers	118,034	26,801	2,869	6,382	17,550	91,233	39.7	43.6
Mining	531	37	6	30	1	494	47.3	47.4
Construction	6,935	1,041	289	437	315	5,894	41.4	42.9
Manufacturing Durable goods Nondurable goods	19,734 12,046 7,689	2,133 1,166 966	277 106 171	1,059 683 376	796 377 419	17,602 10,879 6,722	42.9 43.3 42.3	44.0 44.1 43.7
Transportation and public utilities	8,919 25,871 7,927	1,260 8,638 1,367	165 981 59	518 965 501	577 6,692 807	7,659 17,233 6,560	43.0 37.2 40.7	44.7 44.1 43.1
Service industries Private households All other industries Public administration	42,228 930 41,297 5,889	11,485 503 10,982 839	1,059 77 982 32	2,369 31 2,339 502	8,057 396 7,661 305	30,742 427 30,315 5,049	38.3 29.1 38.5 41.5	43.3 41.4 43.3 42.9
Self-employed workers	8,232 117	2,504 56	369 5	461 6	1,674 46	5,728 61	40.7 32.3	47.5 (¹)

Data not shown where base is less than 75,000.
NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

				Dece	mber 1998			
			Worked 1 t	o 34 hours			Avera	age hours
Age, sex, race, and marital status	Total		For	For none reas	conomic sons	Worked 35 hours	Total	Persons who
	at work	Total	economic reasons	Usually work full time	Usually work part time	or more	at work	usually work full time
TOTAL								
Total, 16 years and over	126,383	29,361	3,242	6,849	19,270	97,022	39.8	43.9
16 to 19 years	6,706	4,917	274	188	4,456	1,789	24.1	39.9
16 to 17 years		2,435	47	19	2,369	165	17.4	37.1
18 to 19 years	4,106	2,483	227	169	2,087	1,624	28.4	40.2
20 years and over	119,677	24,444	2,968	6,661	14,814	95,233	40.7	43.9
20 to 24 years		3,976	510	598	2,868	8,090	36.2	42.1
25 years and over	107,610	20,467	2,458	6,063	11,947	87,143	41.2	44.1
25 to 54 years	91,878	15,632	2,139	5,166	8,328	76,246	41.8	44.2
55 years and over	15,732	4,835	319	897	3,619	10,897	37.6	43.6
Men, 16 years and over	67,161	10,726	1,604	3,250	5,872	56,435	42.7	45.3
16 to 19 years		2,215	142	102	1,972	1,077	26.0	40.3
16 to 17 years	1,248	1,153	30	12	1,111	95	18.1	36.6
18 to 19 years	2,044	1,062	112	90	861	982	30.9	40.7
20 years and over		8,511	1,463	3,148	3,900	55,358	43.5	45.4
20 to 24 years		1,743	276	281	1,186	4,585	38.2	43.1
25 years and over		6,767	1,187	2,867	2,714	50,773	44.1	45.6
25 to 54 years		4,753	1,037	2,419	1,297	44,179	44.8	45.7
55 years and over	8,608	2,014	150	448	1,416	6,594	40.3	44.9
Women, 16 years and over	59,222	18,635	1,638	3,599	13,398	40,587	36.5	41.9
16 to 19 years	3,414	2,702	132	86	2,484	712	22.2	39.2
16 to 17 years		1,281	17	6	1,258	70	16.7	(1)
18 to 19 years		1,421	115	79	1,226	642	25.9	39.4
20 years and over		15,933	1,506	3,513	10,914	39,875	37.4	42.0
20 to 24 years		2,233	235	317	1,681	3,505	34.1	40.9
25 years and over		13,700	1,271	3,196	9,233	36,370	37.8	42.1
25 to 54 years		10,879	1,102	2,747	7,030	32,066	38.3	42.1
55 years and over	7,124	2,821	169	448	2,203	4,303	34.3	41.6
Race		ļ	ļ	}				
White, 16 years and over		25,213	2,583	5,762	16,869	80,844	39.8	44.0
Men		9,148	1,323	2,773	5,052	48,187	42.9	45.5
Women	48,722	16,065	1,259	2,989	11,817	32,657	36.2	42.0
Black, 16 years and over		3,031	537	861	1,634	11,439	39.5	42.5
Men		1,134	229	375	530	5,560	41.4	43.8
Women	7,777	1,897	308	485	1,104	5,880	37.9	41.3
Marital status	Ì]		
Men, 16 years and over:			1					
Married, spouse present	41,164	4,459	645	1,978	1,835	36,705	44.6	45.9
Widowed, divorced, or separated		1,053	241	434	377	6,813	43.5	45.1
Single (never married)	18,132	5,215	718	837	3,660	12,917	38.0	43.6
Women, 16 years and over:		1						
Married, spouse present		9,721	659	1,954	7,108	22,141	36.7	41.8
Widowed, divorced, or separated		2,837	422	793	1,623	9,079	38.9	42.4
Single (never married)	15,443	6,077	557	852	4,668	9,366	34.3	41.9

¹ Data not shown where base is less than 75,000. NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

				Decer	nber 1998			
			Worked 1 t	o 34 hours			Avera	age hours
Occupation and sex	Total		For		economic sons	Worked 35 hours	Total	Persons who
	at work	Total	economic reasons	Usually work full time	Usually work part time	or more	at work	usually work full time
Total, 16 years and over ¹	126,295	29,363	3,247	6,837	19,279	96,932	39.8	43.9
Managerial and professional specialty	39,054	6,518	475	2,075	3,968	32,536	42.6	45.5
Executive, administrative, and managerial	19,000	2,302	185	941	1,175	16,699	44.5	46.3
Professional specialty		4,217	290	1,134	2,793	15,837	40.8	44.6
Technical, sales, and administrative support		10,537	749	2,117	7,670	27,001	38.0	43.0
Technicians and related support		950	52	302	596	3,080	39.1	42.4
Sales occupations		4,790	439 258	606 1,209	3,745 3,330	11,013 12,908	39.0 36.8	45.6 41.0
Administrative support, including clerical		4,796 6,822	904	835	5,083	10,487	34.8	42.5
Private household		470	66	26	3,003	375	28.6	41.2
Protective service		380	32	131	217	1,902	42.7	45.5
Service, except private household and protective		5,972	806	678	4,487	8,210	34.0	41.8
Precision production, craft, and repair		1,871	424	846	601	12,293	42.3	43.6
Operators, fabricators, and laborers	18,230	3,615	695	963	1,957	14,615	40.4	43.3
Machine operators, assemblers, and inspectors	7,634	1,026	215	443	368	6,607	41.3	42.5
Transportation and material moving occupations	5,428 5,169	948 1,641	171 310	251 269	527 1,062	4,480 3,528	43.2 36.1	46.0 41.4
Men, 16 years and over ¹	66,938	10,668	1,607	3,234	5,827	56,270	42.7	45.3
Managerial and professional specialty	19,866	2,129	208	889	1,032	17,736	45.7	47.4
Executive, administrative, and managerial		924	113	445	366	9,601	47.0	48.2
Professional specialty		1,206	95	444	667	8,135	44.3	46.5
Technical, sales, and administrative support		2,424	209	600	1,616	11,086	42.4	45.8
Technicians and related support		268	25	111	132	1,555	42.2	44.0
Sales occupations		1,367	104	248	1,014	6,469	43.9	47.7
Administrative support, including clerical		790	80	241	469	3,062	39.5	42.8 43.6
Service occupations		2,026 24	308	325	1,393 14	4,879 26	37.9 (²)	(2)
Private household	4	257	27	104	126	1,611	44.0	46.2
Service, except private household and protective		1,745	272	220	1,252	3,242	35.8	42.4
Precision production, craft, and repair		1,648	396	770	481	11,264	42.5	43.7
Operators, fabricators, and laborers		2,441	485	651	1,305	11,305	41.2	44.0
Machine operators, assemblers, and inspectors	4,830	477	91	237	149	4,353	42.6	43.5
Transportation and material moving occupations	4,850	718	126	220	373	4,132	44.1	46.4
Handlers, equipment cleaners, helpers, and laborers	4,065	1,245	268	194	783	2,820	36.2	41.4
Women, 16 years and over ¹	59,357	18,695	1,641	3,602	13,452	40,662	36.5	41.9
Managerial and professional specialty	19,189	4,389	267	1,187	2,935	14,800	39.3	43.2
Executive, administrative, and managerial	8,476	1,378	72	497	809	7,098	41.3	43.7
Professional specialty		3,011	195	690	2,126	7,702	37.8	42.7
Technical, sales, and administrative support		8,112 683	540 28	1,517 191	6,055 464	15,915 1,526	35.5 36.6	41.1 40.8
Technicians and related support		3,423	335	358	2,730	4,543	34.1	42.7
Administrative support, including clerical	1 .	4,006	178	968	2,861	9,846	36.1	40.4
Service occupations		4,797	595	511	3,691	5,608	32.8	41.5
Private household	796	447	56	26	364	349	28.6	41.4
Protective service	414	123	5	26	91	291	36.9	42.0
Service, except private household and protective	9,195	4,227	534	458	3,235	4,968	33.0	41.5
Precision production, craft, and repair		222	27	75	120	1,029	40.0	42.1
Operators, fabricators, and laborers		1,175	211	312	652	3,310	37.7	41.1
Machine operators, assemblers, and inspectors		549	124	206	219	2,254	39.0	40.8
Transportation and material moving occupations		230	45	31	154	348	35.6	42.2
Handlers, equipment cleaners, helpers, and laborers	1,104	396	42	75	279	708	35.8	41.4

Excludes farming, forestry, and fishing occupations.
 Data not shown where base is less than 75,000.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

A-28. Unemployed persons by marital status, race, age, and sex

		М	en			Wor	nen	
Marital status, race, and age	Thousa pers	ands of sons	Unemployment rates		Thousands of persons		Unemploymen rates	
	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
Total, 16 years and over	3.304	3,125	4.5	4.2	2.653	2,440	4.2	3.8
Married, spouse present	1,133	1,030	2.6	2.3	884	849	2.6	2.5
Widowed, divorced, or separated	495	462	5.8	5.2	621	611	4.8	4.7
Single (never married)	1,676	1,633	8.2	7.9	1,148	980	6.9	5.8
White, 16 years and over	2,417	2,394	3.9	3.8	1,788	1,755	3.4	3.3
Married, spouse present	909	870	2.3	2.2	700	719	2.3	2.4
Widowed, divorced, or separated	398	365	5.6	5.0	429	449	4.2	4.4
Single (never married)	1,110	1,158	6.7	6.9	660	587	5.4	4.7
Black, 16 years and over	707	578	9.7	7.7	730	565	8.7	6.6
Married, spouse present	142	109	4.2	3.2	122	84	4.7	3.0
Widowed, divorced, or separated	74	77	6.6	6.3	165	137	7.2	6.1
Single (never married)	491	392	17.3	13.6	443	344	12.7	9.6
Total, 25 years and over	2,187	1,986	3.5	3.2	1,782	1,708	3.3	3.2
Married, spouse present	1,079	972	2.5	2.3	789	793	2.4	2.4
Widowed, divorced, or separated	463	441	5.6	5.1	575	586	4.6	4.6
Single (never married)	644	573	5.9	5.2	418	329	5.0	3.9
White, 25 years and over	1,652	1,562	3.1	2.9	1,236	1,249	2.8	2.8
Married, spouse present	860	813	2.3	2.1	618	667	2.2	2.3
Nidowed, divorced, or separated	370	349	5.4	4.9	391	430	4.0	4.3
Single (never married)	422	400	4.9	4.6	226	152	3.9	2.6
Black, 25 years and over	413	330	6.8	5.3	451	367	6.6	5.2
Married, spouse present	138	109	4.2	3.2	109	83	4.4	3.1
Widowed, divorced, or separated	72	73	6.7	6.1	157	132	7.0	6.0
Single (never married)	203	148	11.9	8.8	185	152	8.5	6.8

NOTE: Beginning in 1998, data reflect new composite estimation

A-29. Unemployed persons by occupation and sex

		ands of sons			Unemploy	ment rates		
Occupation	To	otal	То	tal	М	en	Wor	men
	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
Total, 16 years and over ¹	5,957	5,565	4.4	4.0	4.5	4.2	4.2	3.8
Managerial and professional specialty	669	665	1.7	1.6	1.8	1.7	1.7	1.5
Executive, administrative, and managerial	357 313	332 333	1.9 1.6	1.7 1.6	1.9 1.6	1.7 1.7	1.9 1.5	1.6 1.5
Technical, sales, and administrative support	1,436	1,319	3.6	3.3	3.1	3.1	3.8	3.5
Technicians and related support	92 733	92 614	2.1 4.4	2.2 3.7	2.1 3.0	2.4 3.0	2.2 5.7	2.0 4.3
Administrative support, including clerical	611	614	3.2	3.3	4.0	3.4	3.0	3.2
Service occupations	1,065	1,061	5.7	5.6	5.6	6.1	5.7	5.3
Private household	79 86	81 56	8.2 3.6	8.5 2.3	(²)	(²) 1.7	8.0 7.2	8.7 5.0
Service, except private household and protective	900	924	5.8	5.9	6.6	7.6	5.4	5.0
Precision production, craft, and repair	714	503	4.8	3.3	4.9	3.3	3.6	3.5
Mechanics and repairers	190	103	3.8	2.1	3.9	2.1	1.6	1.1
Construction trades Other precision production, craft, and repair	420 104	278 122	7.3 2.5	4.7 2.9	7.4 2.1	4.6 2.8	5.1 3.8	6.6 3.5
Operators, fabricators, and laborers		1,274	6.6	6.4	6.5	6.2	6.9	7.1
Machine operators, assemblers, and inspectors	466	501	5.6	6.0	5.2	5.2	6.2	7.4
Transportation and material moving occupations	272	271	4.7	4.6	4.7	4.5	5.2	5.3
Handlers, equipment cleaners, helpers, and laborers Construction laborers	560 157	502 137	9.9 17.6	8.7 14.7	10.0 17.2	9.1 14.2	9.5 (²)	7.0 (²)
Other handlers, equipment cleaners, helpers, and laborers	403	365	8.5	7.5	8.3	7.9	8.9	6.4
Farming, forestry, and fishing	325	355	9.4	10.4	8.9	10.4	11.6	10.7
No previous work experience	423	381	-	-	-	-	-	-
16 to 19 years	289	252 68	-	-	-	-	_	-
20 to 24 years	65 69	62	_	_	_	_	_	-

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

Forces.

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

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

A-30. Unemployed persons by industry and sex

		ands of sons			Unemploy	ment rates		
Industry	To	tal	To	ital	М	en	Wor	nen
	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
Total, 16 years and over	5,957	5,565	4.4	4.0	4.5	4.2	4.2	3.8
Nonagricultural private wage and salary workers	4,699	4,408	4.5	4.1	4.6	4.3	4.4	4.0
Mining	21	31	3.0	5.3	2.9	5.7	3.5	1 0
Construction	636	459	9.4	6.5	9.5	6.5	8.1	1.8 6.7
Manufacturing	778	807	3.7	3.9	3.1	3.3	4.9	5.1
Durable goods	386	415	3.1	3.3	3.2	2.8	2.8	4.5
Lumber and wood products	44	33	5.8	4.2	6.4	4.2	2.9	3.8
Furniture and fixtures	15	23	2.3	3.4	2.5	1.4	1.8	8.
Stone, clay, and glass products	27	23	4.2	3.7	4.6	4.1	2.5	2.
Primary metal industries	16	25	2.2	3.2	2.3	3.0	1.9	4.
Fabricated metal products		45	3.0	3.3	2.7	2.3	3.7	6.
Machinery and computing equipment	75	94	2.9	3.7	3.1	3.8	2.1	3
Electrical machinery, equipment, and supplies	66	41	3.2	2.0	2.4	2.1	4.5	1
Transportation equipment	65	69	2.6	2.9	3.1	2.1	1.0	6
Automobiles	37	54	2.7	3.8	3.1	2.6	1.0	7
Other transportation equipment	28	16	2.7	3.6 1.6	3.2	1.2		
Professional and photographic equipment	18	28	2.3	3.5	1.3		.6	3
Other durable goods industries	20	35	3.0	5.5 5.5	4.0	3.4 3.3	3.5 1.7	3. 8.
Nondurable goods	392	392	4.6	4.8	3.0	4.2	6.9	5.
Food and kindred products	141	111	7.2	6.4	4.6	5.7	12.1	7.
Textile mill products	20	29	3.4	5.0	1.3	4.0	6.3	6.
Apparel and other textile products	99	84	9.6	9.8	4.6	7.8	11.6	10
Paper and allied products		10	1.7	1.4	2.2	1.9		-
Printing and publishing	61	57	3.6	3.2	3.0	3.8	4.4	2
Chemicals and allied products		39	2.0	3.0	2.4	.8	1.2	7
Rubber and miscellaneous plastics products	25	54	2.8	5.5	1.9	6.5	4.4	3
Other nondurable goods industries	8	9	2.2	3.1	1.9	4.4	2.9	-
Transportation and public utilities	230	223	3.0	2.9	3.0	3.0	2.9	2
Transportation	172	168	3.7	3.4	3.9	3.7	3.2	2
Communications and other public utilities	58	56	1.9	1.9	1.5	1.8	2.7	2
Wholesale and retail trade	1,347	1,330	5.0	4.8	4.6	5.1	5.5	4
Wholesale trade	207	207	4.4	4.1	4.2	3.9	4.8	4
Retail trade	1,140	1,122	5.2	5.0	4.8	5.5	5.6	4
Finance, insurance, and real estate	209	236	2.7	2.9	3.0	3.1	2.5	2
Service industries	1,477	1,322	4.3	3.8	4.8	4.1	4.0	3
Professional services	556	529	2.7	2.6	2.5	2.8	2.8	2
Other service industries	922	793	6.7	5.7	6.7	5.1	6.7	6
Agricultural wage and salary workers	257	234	13.5	12.2	13.0	13.8	14.8	7.
Government, self-employed, and unpaid family workers	578	542	2.0	1.8	2.3	1.8	1.6	1
No previous work experience	423	381	1 ~	-	-	- 1	- 1	_

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

Reason		tal, ears over	Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
NUMBER OF UNEMPLOYED												
Total unemployed Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants PERCENT DISTRIBUTION	5,957 3,051 1,053 1,998 1,355 643 634 1,849 423	5,565 2,849 934 1,915 1,382 533 628 1,706 381	2,826 1,908 688 1,220 816 404 279 598 40	2,510 1,643 579 1,064 771 294 302 525 41	2,187 1,004 319 685 475 210 292 797 94	2,065 987 294 693 513 180 263 725 89	944 139 46 93 64 28 62 454 289	990 219 61 158 99 59 63 456 252	4,205 2,308 888 1,420 1,041 378 478 1,178 241	2,228 793 1,435	1,437 582 112 470 247 224 126 570 159	512 113 399 279 121 127 402
Job losers and persons who completed temporary jobs On temporary layoff	51.2 17.7 33.5 10.6 31.0 7.1	51.2 16.8 34.4 11.3 30.6 6.9	67.5 24.3 43.2 9.9 21.2 1.4	65.5 23.1 42.4 12.0 20.9 1.6	45.9 14.6 31.3 13.4 36.4 4.3	47.8 14.3 33.6 12.8 35.1 4.3	14.7 4.9 9.8 6.6 48.1 30.7	22.1 6.2 16.0 6.4 46.0 25.4	54.9 21.1 33.8 11.4 28.0 5.7	53.7 19.1 34.6 11.6 29.1 5.6	40.5 7.8 32.7 8.8 39.6 11.1	9.9 34.9 11.1
Job losers and persons who completed temporary jobs	2.2 .5 1.4 .3	2.1 .5 1.2 .3	2.8 .4 .9 .1	2.3 .4 .7 .1	1.7 .5 1.3	1.6 .4 1.2 .1	1.8 .8 6.0 3.8	2.7 .8 5.7 3.1	2.0 .4 1.0 .2	1.9 .4 1.0 .2	3.7 .8 3.6 1.0	

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Percent distribution)

			C	ecember 199	8				
	Total une	employed		Duratio	on of unemplo	n of unemployment			
Reason, sex, and age	Thousands		Less than	5 to 14	15	weeks and o	over		
	of persons	Percent	5 weeks	weeks	Total	15 to 26 weeks	27 weeks and over		
Total, 16 years and over	5,565 2,849 934 1,915 1,382 533	100.0 100.0 100.0 100.0 100.0	41.3 43.7 61.3 35.2 33.3 39.9	32.7 33.7 26.5 37.3 36.4 39.5	26.0 22.5 12.2 27.6 30.3 20.5	12.2 11.6 6.1 14.3 16.0 9.9	13.8 11.0 6.2 13.3 14.3		
Persons who completed temporary jobs Job leavers Reentrants New entrants	628 1,706 381	100.0 100.0 100.0	44.6 38.9 28.8	36.6 28.2 38.0	18.8 33.0 33.2	10.9 13.8 11.8	7.8 19.1 21.4		
Men, 20 years and over Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants	1,643 579 1,064 771 294 302 525	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	43.0 45.8 63.1 36.3 35.6 38.1 44.9 35.9	31.3 32.6 25.5 36.4 32.6 46.4 35.1 24.7	25.7 21.6 11.3 27.2 31.7 15.5 20.0 39.4	10.4 9.2 5.7 11.2 13.4 5.4 13.2 12.5	15.3 12.4 5.6 16.1 18.3 10.1 6.8 26.8 (¹)		
Women, 20 years and over Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants	987 294 693 513 180 263 725	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	36.3 38.3 54.5 31.4 26.5 45.4 36.9 34.8 25.3	33.1 33.8 30.2 35.3 40.6 20.3 41.3 29.2 33.2	30.6 27.9 15.3 33.3 33.0 34.3 21.9 36.0 41.5	16.0 17.4 6.8 21.9 22.4 20.4 10.9 16.1	14.6 10.6 8.5 11.5 10.6 13.9 11.0 20.0 25.3		
Both sexes, 16 to 19 years Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants	219 61 158 99 59 63 456	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	47.4 52.8 (1) 44.0 50.9 (1) (1) 48.8 33.0	35.1 42.1 (1) 51.3 43.7 (1) (1) 30.5 40.0	17.5 5.0 (1) 4.7 5.4 (1) (1) (1) 20.7 27.1	8.9 3.2 (1) 2.1 3.4 (1) (1) (1) 11.7 11.0	8.6 1.8 (1) 2.6 2.0 (1) (1) (1) 8.9 16.0		

¹ Data not shown where base is less than 75,000. NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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

		To	tal	i		Full-time	workers	
Duration of unemployment	Thousands	of persons	Percent di	stribution	Thousands	of persons	Dec. 1997 100.0 2 35.5 32.8 70 23.0 30 9.7 32 14.6 68 17.1	stribution
,	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998		Dec. 1998
Total, 16 years and over Less than 5 weeks 5 to 14 weeks 11 to 14 weeks 15 weeks and over 15 to 26 weeks 27 weeks and over 27 to 51 weeks 52 weeks and over	5,957 2,243 1,949 1,372 577 1,765 832 933 380 553	5,565 2,299 1,817 1,306 512 1,449 680 769 326 443	100.0 37.7 32.7 23.0 9.7 29.6 14.0 15.7 6.4 9.3	100.0 41.3 32.7 23.5 9.2 26.0 12.2 13.8 5.9 8.0	4,846 1,721 1,588 1,116 471 1,538 708 830 327 502	4,452 1,702 1,500 1,070 430 1,250 582 668 270 397	35.5 32.8 23.0 9.7 31.7 14.6 17.1	100.0 38.2 33.7 24.0 9.7 28.1 13.1 15.0 6.1 8.9
Average (mean) duration, in weeks Median duration, in weeks	16.0 7.4	14.1 6.7	- -	~ -	17.1 8.0	15.2 7.4	<u>-</u>	-

NOTE: Beginning in January 1998, data reflect new composite estimation

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

				Decemb	per 1998			
			Thousands	of persons			We	eks
Sex, age, race, and marital status		Less	5 to 14	15	weeks and o	ver	Average	Median
	Total	than 5 weeks	weeks	Total	15 to 26 weeks	27 weeks and over	(mean) duration	duration
TOTAL							, ,	
Total, 16 years and over	5,565	2,299	1,817	1,449	680	769	14.1	6.7
16 to 19 years	990	469	348	173	88	85	10.2	5.4
20 to 24 years	880	445	255	180	80	100	11.5	4.4
25 to 34 years	1,267	493	413	360	171	189	14.8	7.1
35 to 44 years	1,205	448	412	345	162	183	15.4	7.3
	750	256	264	229	102	128	16.6	8.4
45 to 54 years								
55 to 64 years	331	110	101	120	60	60	19.7	9.6
65 years and over	142	77	25	40	15	25	16.4	4.2
Men, 16 years and over	3,125	1,372	999	754	324	430	14.0	6.2
16 to 19 years	615	292	213	110	63	46	10.5	5.5
20 to 24 years	524	290	149	85	27	59	11.2	4.1
25 to 34 years	673	282	221	170	66	104	15.1	6.5
35 to 44 years	621	243	212	166	72	94	14.9	7.1
	410	144	137	129	54	75	16.6	8.2
45 to 54 years		4			36			1
55 to 64 years	210	81	53	77		41	20.0	8.8
65 years and over	71	40	14	17	5	12	(1)	(1)
Women, 16 years and over	2,440	927	818	695	356	339	14.3	7.4
16 to 19 years	375	177	135	63	25	39	9.6	5.3
20 to 24 years	356	155	106	95	53	42	11.9	6.7
25 to 34 years	593	211	192	190	105	85	14.3	8.0
35 to 44 years	585	205	200	180	90	89	16.1	7.6
45 to 54 years	340	113	127	100	47	53	16.5	8.6
55 to 64 years	120	30	47	44	24	19	19.0	10.7
	71	36	11	23	10	13		(1)
65 years and over	/ 1	30	11	23	10	13	(1)	(1)
Race					{			
White, 16 years and over	4,149	1,832	1,346	971	465	506	12.9	5.9
Men	2,394	1,110	752	531	242	289	12.8	5.4
Women	1,755	722	594	440	223	217	12.9	6.4
Black, 16 years and over	1,143	354	372	417	188	230	18.9	10.2
Men	578	182	199	196	76	120	19.3	9.8
Women	565	171	173	221	112	109	18.6	10.8
Marital status								
Man 16 years and ayers					ļ			
Men, 16 years and over: Married, spouse present	1.030	424	334	271	129	142	13.7	6.9
	462	216	131	115	42	72	14.9	5.3
Widowed, divorced, or separatedSingle (never married)	1,633	732	533	368	152	216	14.9	6.0
Women, 16 years and over:								
	849	340	282	227	130	97	13.8	2.5
Married, spouse present		222	202				_	6.5
Widowed, divorced, or separated	611			188	88	100	16.0	8.0
Single (never married)	980	365	335	281	139	142	13.7	7.5

¹ Data not shown where base is less than 75,000. NOTE: Beginning in January 1998, data reflect new composite estimation

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

				Decemb	er 1998			
			Thousands	of persons			We	eks
Occupation and industry		Less	5 - 44	15	weeks and o	ver	Average	1 41:
	Total	than 5 weeks	5 to 14 weeks	Total	Total 15 to 26 weeks		(mean) duration	Median duration
OCCUPATION								
Managerial and professional specialty Technical, sales, and administrative support Service occupations Precision production, craft, and repair Operators, fabricators, and laborers Farming, forestry, and fishing	665 1,319 1,061 503 1,274 355	239 536 422 258 574 156	221 429 328 142 418 130	205 354 312 102 281 68	87 193 130 52 140 32	118 160 182 50 141 36	16.7 13.7 15.5 10.5 12.6 13.0	8,2 7,1 6,9 4,4 5,8 6,1
INDUSTRY ¹								
Agriculture Construction Manufacturing Durable goods Nondurable goods Transportation and public utilities Wholesale and retail trade Finance, insurance, and real estate Services Public administration	234 468 814 417 397 718 4,034 740 2,815 309	103 241 339 168 171 129 569 61 605 30	97 126 269 145 123 63 441 111 451 30	34 101 207 104 103 50 329 71 437 43	14 41 138 63 75 12 158 28 195 21	20 60 69 41 28 38 171 42 241 21	11.9 13.1 12.4 13.4 11.3 12.9 13.5 15.9 14.9	5.8 4.4 6.5 6.6 6.2 4.2 6.6 9.4 6.8 11.1
No previous work experience	381	110	145	127	45	82	18.9	9.9

¹ Includes wage and salary workers only.

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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

(in thousands)

	То	tal	Age							Sex			
Category	Dec.	Dec.	16 to 24 years		25 to 54 years		55 years and over		Men		Women		
	1997	1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	
Total not in the labor force Do not want a job now¹ Want a job¹ Did not search for work in previous year Searched for work in previous year² Not available to work now Available to work now Reason not currently looking: Discouragement over job prospects³ Reasons other than discouragement Family responsibilities In school or training Ill health or disability Other⁴	2,391 1,999 546 1,453 345 1,108 110 248	67,973 63,786 4,187 2,463 1,724 527 1,196 358 838 76 194 87 481	11,932 10,256 1,675 802 874 317 557 92 465 25 211 16 212	12,031 10,529 1,502 811 692 273 419 107 312 18 159 5	18,517 16,591 1,926 1,043 883 202 681 189 492 66 37 64 326		36,908 36,119 789 547 242 28 215 63 152 19 41		25,072 23,244 1,828 923 905 237 668 185 483 12 120 49 302	25,254 23,492 1,762 1,032 730 182 548 214 334 7 83 34 210	39,722 2,562 1,468 1,094 309 785 160 625 97 128 72	42.719 40.293 2.425 1,432 994 345 649 145 504 70 110 52 271	

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

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

		Both:	sexes			M	en			Woi	men	
Characteristic	Nun	nber	Ra	ite ¹	Nun	nber	Ra	te ¹	Nun	nber	Ra	ıte ¹
	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998
AGE												
Total, 16 years and over ² 16 to 19 years	311 7,797 859 6,938	8,220 324 7,896 770 7,125 6,281 844 720 125	6.2 4.7 6.3 6.9 6.2 6.5 4.5 5.0 2.8	6.2 4.6 6.3 6.1 6.5 5.0 5.5 3.2	4,212 133 4,079 374 3,706 3,227 479 406 73	4,163 138 4,025 338 3,687 3,244 442 357 85	6.0 4.0 6.1 5.8 6.2 6.3 5.2 5.9 3.2	5.9 4.0 6.0 5.1 6.1 6.3 4.7 5.0 3.8	3,896 178 3,718 486 3,232 2,969 263 228 36	4,057 186 3,871 432 3,439 3,037 402 363 39	6.4 5.4 6.4 8.1 6.3 6.7 3.5 3.9 2.2	6.6 5.3 6.6 7.3 6.6 6.8 5.3 6.0 2.4
White	6,935 827 516	7,003 956 543	6.3 5.8 4.0	6.3 6.4 4.1	3,648 374 316	3,567 478 303	6.1 5.6 4.0	5.9 6.9 3.8	3,287 453 200	3,436 477 240	6.5 5.9 3.9	6.7 5.9 4.5
MARITAL STATUS Married, spouse present	4,563 1,364 2,181	4,488 1,434 2,298	6.0 6.7 6.4	5.8 6.9 6.6	2,711 453 1,048	2,623 467 1,073	6.3 5.6 5.6	6.0 5.5 5.6	1,852 910 1,133	1,865 967 1,225	5.6 7.4 7.4	5.6 7.8 7.7
Primary job full time, secondary job part time	4,574 1,779 231 1,487	4,561 1,778 233 1,613		 - -	2,680 570 148 795	2,574 522 149 898	- - -	- - -	1,894 1,210 83 693	1,988 1,255 84 715		- - -

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

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

group.

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

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED

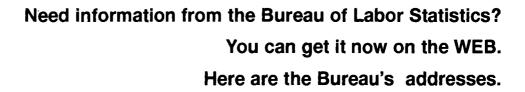
A-38. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

	Civi noninst popu	itutional	Civilian labor force											
Veteran status			То	tal	Empl	oyed		Unem	ployed					
and age	Dec. 1997	Dec. 1998	Dec.	Dec.	Dec.	Dec.	Nun	nber	Perce labor					
			1997	1998	1997	1998	Dec. 1997	Dec. 1998	Dec. 1997	Dec. 1998				
VIETNAM-ERA VETERANS														
Total, 40 years and over	7,781 6,129 850 2,458 2,821 1,652	7,774 5,756 610 2,054 3,092 2,018	6,637 5,532 757 2,232 2,542 1,105	6,446 5,094 542 1,852 2,700 1,353	6,468 5,391 748 2,174 2,469 1,077	6,293 4,967 517 1,807 2,643 1,325	169 141 9 58 73 28	153 126 24 46 57 27	2.5 2.5 1.2 2.6 2.9 2.5	2.4 2.5 4.4 2.5 2.1 2.0				
NONVETERANS														
Total, 40 to 54 years	19,873 9,144 6,512 4,217	20,690 9,344 7,006 4,339	17,954 8,409 5,916 3,629	18,736 8,614 6,374 3,749	17,385 8,141 5,748 3,496	18,213 8,382 6,168 3,663	569 267 168 133	523 231 206 86	3.2 3.2 2.8 3.7	2.8 2.7 3.2 2.3				

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 1998, data

reflect new composite estimation procedures and revised population controls used in the household survey. $\dot{}$



Bureau of Labor Statistics	http://stats.bls.gov http://stats.bls.gov/opbinfo.htm http://stats.bls.gov/regnhome.htm
Employment and Unemployment:	
National establishment data	http://stats.bls.gov/ceshome.htm
State and area establsihment data	http://stats.bls.gov/790home.htm
National labor force data	http://stats.bls.gov/cpshome.htm
Region, State, and metropolitan area	
labor force data	http://stats.bls.gov/lauhome.htm
Longitudinal research	http://stats.bls.gov/nlshome.htm
Covered employment and wages	http://stats.bls.gov/cewhome.htm
Occupational employment statistics	http://stats.bls.gov/oeshome.htm
Mass layoff statistics	http://stats.bls.gov/lauhome.htm
Prices and Living Conditions:	
Consumer price indexes	http://stats.bls.gov/cpihome.htm
Producer price indexes	http://stats.bls.gov/ppihome.htm
Consumer Expenditure Survey	http://stats.bls.gov/csxhome.htm
Consumer Experience Survey	http://stats.ois.gov/csxholic.htm
Compensation and Working Conditions:	
National Compensation Survey	http://stats.bls.gov/comhome.htm
Collective bargaining	http://stats.bls.gov/lmrhome.htm
Employment cost trends	http://stats.bls.gov/ecthome.htm
Employee Benefits Survey	http://stats.bls.gov/ebshome.htm
Occupational Compensation Survey	http://stats.bls.gov/ocshome.htm
Occupational injuries and illnesses	http://stats.bls.gov/oshhome.htm
Productivity:	
Quarterly labor productivity	http://stats.bls.gov/lprhome.htm
Industry productivity	http://stats.bls.gov/iprhome.htm
Federal Government productivity	http://stats.bls.gov/gprhome.htm
Multifactor productivity	http://stats.bls.gov/mprhome.htm
Employment Projections	http://stats.bls.gov/emphome.htm
Intermeticanal data.	
International data:	1
Foreign labor statistics	http://stats.bls.gov/flshome.htm
U.S. import and export price indexes	http://stats.bls.gov/ipphome.htm
Foreign direct investment	http://stats.bls.gov/fdihome.htm

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonfarm payrolls by major industry, 1947 to date

(In thousands)

				Goods-	producing					Se	rvice-produc	ing			
Year and month	Total	Total private	Total	Mining	Construc-	Manufac- turing	Total	Transpor- tation and	Whole-	Retail trade	Finance, insurance, and	Services		Governmen	
								public utilities	trade		real estate		Federal	State	Local
							A	nnual avera	iges						
947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	(1)	(1)
948 949	44,866 43,754	39,216 37,897	18,774 17,565	994 930	2,198 2,194	15,582 14,441	26,092 26,189	4,189 4,001	2,612 2,610	6,659 6,654	1,800 1,828	5,181 5,239	1,863 1,908	(1) (1)	(1) (1)
950	45,197 47,819	39,170 41,430	18,506 19,959	901 929	2,364 2,637	15,241 16,393	26,691 27,860	4,034 4,226	2,643 2,735	6,743 7,007	1,888 1,956	5,356 5,547	1,928 2,302	(1) (1)	(1) (1)
952	48,793	42,185 43,556	20,198	898 866	2,668	16,632 17,549	28,595 29,128	4,248 4,290	2,821 2,862	7,184	2,035 2,111	5,699 5,835	2,420 2,305	(1)	(1)
953 954	50,202 48,990	42,238	21,074 19,751	791	2,659 2,646	16,314	29,239	4,084	2,802	7,385 7,360	2,200	5,969	2,188	(1) (1)	(1) (1)
955	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
956 957	52,369 52,855	45,091 45,239	21,104 20,967	822 828	3,039 2,962	17,243 17,176	31,264 31,889	4,244 4,241	3,027 3,037	7,831 7,848	2,389 2,438	6,497 6,708	2,209 2,217	1,250 1,328	3,819 4,071
958	51,322	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,430	6,765	2,191	1,415	4,230
959 ²	53,270	45,186	20,411	732	3,004	16,675	32,857	4,011	3,092	8,035	2,549	7,087	2,233	1,484	4,366
960 961	54,189 53,999	45,836 45,404	20,434 19,857	712 672	2,926 2,859	16,796 16,326	33,755 34,142	4,004 3,903	3,153 3,142	8,238 8,195	2,628 2,688	7,378 7,619	2,270 2,279	1,536 1,607	4,547 4,708
962	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
963	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
964 965	58,283 60,763	48,686 50,689	21,005 21,926	634 632	3,097 3,232	17,274 18,062	37,278 38,839	3,951 4,036	3,347 3,477	8,812 9,239	2,911 2,977	8,660 9,036	2,348 2,378	1,856 1,996	5,392 5,700
966	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
967	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
968 969	67,897 70,384	56,058 58,189	23,737 24,361	606 619	3,350 3,575	19,781 20,167	44,158 46,023	4,318 4,442	3,791 3,919	10,308 10,785	3,337 3,512	10,567 11,169	2,737 2,758	2,442 2,533	6,660 6,904
970	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
971 972	71,211 73,675	58,331 60,341	22,935 23,668	609 628	3,704 3,889	18,623 19,151	48,276 50,007	4,476 4,541	4,014 4,127	11,338 11,822	3,772 3,908	11,797 12,276	2,696 2,684	2,747 2,859	7,437 7,790
973	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
974	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
975 976	76,945 79,382	62,259 64,511	22,600 23,352	752 779	3,525 3,576	18,323 18,997	54,345 56,030	4,542 4,582	4,430 4,562	12,630 13,193	4,165 4,271	13,892 14,551	2,748 2,733	3,179 3,273	8,758 8,865
977	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	3,273	9,023
978 979	86,697 89,823	71,026 73,876	25,585 26,461	851 958	4,229 4,463	20,505 21,040	61,113 63,363	4,923 5,136	4,985 5,221	14,556 14,972	4,724 4,975	16,252 17,112	2,753 2,773	3,474 3,541	9,446 9,633
980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	2,866	3,610	9,765
981	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
982 983	89,544 90,152	73,707 74,282	23,812 23,330	1,128 952	3,904 3,946	18,780 18,432	65,732 66,821	5,081 4,952	5,295 5,283	15,158 15,587	5,340 5,466	19,021 19,664	2,739 2,774	3,640 3,662	9,458 9,434
984	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
985	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
986	99,344 101,958	82,651 84,948	24,533 24,674	777 717	4,810 4,958	18,947 18,999	74,811 77,284	5,247 5,362	5,761 5,848	17,880 18,422	6,273 6,533	22,957 24,110	2,899 2,943	3,893 3,967	9,901 10,100
987 988	105,209	87,823	25,125	713	5,098	19,314	80,084	5,502	6,030	19,023	6,630	25,504	2,971	4,076	10,1339
989	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
990 991	109,403 108,249	91,098 89,847	24,905 23,745	709 689	5,120 4,650	19,076 18,406	84,497 84,504	5,777 5,755	6,173 6,081	19,601 19,284	6,709 6,646	27,934 28,336	3,085 2,966	4,305 4,355	10,914 11,081
992	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
993 994	110,713 114,163	91,872 95,036	23,352 23,908	610 601	4,668 4,986	18,075 18,321	87,361 90,256	5,811 5,984	5,981 6,162	19,773 20,507	6,757 6,896	30,197 31,579	2,915 2,870	4,488 4,576	11,430 11,680
994 995	114,163	95,036	23,908	581	5,160	18,524	92,925	6,132	6,378	20,507	6,896	31,579	2,870	4,576 4,635	11,684
996	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
997	122,690	103,120	24,934	592 575	5,686 5,965	18,657 18,716	97,756 100,577	6,395 6,551	6,648 6,825	22,011 22,474	7,091 7,341	36,040 37,525	2,699	4,594	12.276
998P	125,833	105,972	25,256	3/5	3,900	10,716	l	L			1,341	37,525	2,684	4,649	12,529
					Τ	1	Monthly d	ata, season	ally adjuste	d	<u> </u>				
997:	124,289	104,609	25,193	592	5,810	18,791	99,096	6,451	6,731	22,245	7 104	36,795	2 500	4 614	10.004
December 998:	,	·			1	· ·	'	'			7,194		2,688	4,611	12,381
January February	124,640 124,832	104,954 105,112	25,297 25,314	592 590	5,881 5,902	18,824 18,822	99,343 99,518	6,473 6,494	6,759 6,769	22,280 22,283	7,213 7,232	36,932 37,020	2,670 2,676	4,613 4,613	12,403
March	124,832	105,112	25,314	590 587	5,860	18,829	99,638	6,504	6,783	22,263	7,258	37,020	2,676	4,619	12,43° 12,438
April	125,234	105,470	25,339	582	5,930	18,827	99,895	6,513	6,798	22,335	7,289	37,196	2,674	4,620	12,470
May	125,562	105,734	25,301	579	5,917	18,805	100,261	6,534	6,815	22,423	7,311	37,350	2,671	4,637	12,52
June	125,751	105,938	25,304	578 571	5,946 5,970	18,780 18,594	100,447 100,734	6,538 6,550	6,821 6,827	22,448	7,333	37,494	2,674	4,632	12,50
July August	125,869 126,191	106,043 106,269	25,135 25,253	571 571	5,989	18,594	100,734	6,570	6,838	22,547 22,545	7,370 7,372	37,614 37,691	2,672 2,683	4,645 4,661	12,50 12,57
September	126,363	106,203	25,241	568	5,981	18,692	101,122	6,579	6,862	22,592	7,393	37,768	2,687	4,680	12,57
October	126,527	106,579	25,209	564	6,012	18,633	101,318	6,595	6,864	22,589	7,417	37,905	2,713	4,671	12,56
November ^p December ^p	126,778	106,802	25,184	560 557	6,054	18,570	101,594	6,609	6,875	22,654	7,439	38,041	2,712	4,672	12,59
~0000111001F	127,156	107,121	25,272	357	6,158	18,557	101,884	6,641	6,882	22,707	7,467	38,152	2,691	4,706	12,63

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1997) and all seasonally adjusted data (beginning January 1994) are subject to revision.

 $^{^1}$ 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.

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, 1964 to date

		Total private ¹			Mining			Construction	
Year and month	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
				,	Annual averag	es			
204	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
964			95.45	42.3	2.92	123.52	37.4	3.70	138.38
965	38.8	2.46			3.05	130.24	37.6	3.89	146.26
966	38.6	2.56	98.82	42.7		1			
967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
		5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
977	36.0		1			332.88	36.8	8.66	318.69
978	35.8	5.69	203.70	43.4	7.67				1
979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
986	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
-	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
987			322.02	42.3	12.80	541.44	37.9	13.08	495.73
988 989	34.7 34.6	9.28 9.66	334.24	43.0	13.26	570.18	37.9	13.54	513.17
	04.5	40.04	045.05	44.4	10.60	603.30	20.0	10 77	526.01
990	34.5	10.01	345.35	44.1	13.68	603.29	38.2	13.77	526.01
991	34.3	10.32	353.98	44.4	14.19	630.04	38.1	14.00	533.40
992	34.4	10.57	363.61	43.9	14.54	638.31	38.0	14.15	537.70
993	34.5	10.83	373.64	44.3	14.60	646.78	38.5	14.38	553.63
994	34.7	11.12	385.86	44.8	14.88	666.62	38.9	j 14.73	573.00
995	34.5	11.43	394.34	44.7	15.30	683.91	38.9	15.09	587.00
996	34.4	11.82	406.61	45.3	15.62	707.59	39.0	15.47	603.33
997	34.6	12.28	424.89	45.4	16.17	734.12	38.9	16.03	623.57
998P	34.6	12.77	441.84	43.9	16.95	744.11	38.8	16.56	642.53
				Monthly da	ta, not seasor	ally adjusted			
997:									
December	34.8	\$12.53	\$436.04	45.2	\$16.52	\$746.70	38.5	\$16.37	\$630.25
998:		}	1		1	j		l	1
January	34.2	12.60	430.92	45.0	16.65	749.25	37.4	16.25	607.75
February	34.6	12.65	437.69	44.0	16.89	743.16	37.9	16.21	614.36
March	34.5	12.68	437.46	43.4	16.89	733.03	37.9	16.29	617.39
April	34.2	12.69	434.00	43.4	16.84	730.86	38.0	16.34	620.92
May	34.6	12.70	439.42	44.4	16.73	742.81	39.2	16.42	643.66
	34.7	12.66	439.30	44.0	16.73	736.12	39.1	16.44	642.80
June						739.64			666.86
July	34.8	12.66	440.57	44.0	16.81		40.1	16.63	
August	35.1	12.74	447.17	44.0	16.94	745.36	40.1	16.74	671.27
September	34.3	12.89	442.13	42.9	17.16	736.16	37.5	16.76	628.50
October	34.6	12.92	447.03	43.9	17.13	752.01	40.0	16.86	674.40
NovemberP	34.7	12.99	450.75	43.9	17.32	760.35	38.5	16.80	646.80
DecemberP	34.7	12.99	450.75	43.5	17.41	757.34	39.2	16.83	659.74

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

		Manufa	acturing	,	Trans	portation and utilities	public	\	Wholesale trac	de
Year and month	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
					Annual	averages			T	
964	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
965	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.08
966	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
67	40.6	2.82	2.71	114.49 122.51	40.5 40.6	3.23 3.42	130.82 138.85	40.3 40.1	2.87 3.04	115.66
968 969	40.7 40.6	3.01 3.19	2.88 3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
970	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.86
971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.42
972	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
973	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.54
974	40.0	4.42	4.25	176.80	40.2	5,41	217.48	38.8	4.38	169.94
975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.19
976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.27
977	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
978	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
979	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
380	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	266.88
981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.68
382	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.46
983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.79
984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.88
985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.36
986	40.7	9.73	9.34	396.01	39.2	11.70 12.03	458.64 471.58	38.3	9.34	357.72 365.38
987	41.0	9.91	9.48	406.31 418.81	39.2 38.2	12.03	467.57	38.1 38.1	9.59 9.98	380.24
988 989	41.1 41.0	10.19 10.48	9.73 10.02	429.68	38.3	12.57	481.43	38.0	10.39	394.82
990	40.8	10.83	10.37	441.86	38.4	12.92	496.13	38.1	10.79	411.10
991	40.7	11.18	10.71	455.03	38.1	13.20	502.92	38.1	11.15	424.82
992	41.0	11.46	10.95	469.86	38.3	13.43	514.37	38.2	11.39	435.10
993	41.4	11.74	11,18	486.04	39.3	13.55	532.52	38.2	11.74	448.47
994	42.0	12.07	11.43	506.94	39.7	13.78	547.07	38.4	12.06	463.10
995	41.6	12.37	11.74	514.59	39.4	14.13	556.72	38.3	12.43	476.07
996	41.6	12.77	12.12	531.23	39.6	14.45	572.22	38.3	12.87	492.92
997	42.0	13.17	12.45	553.14	39.7	14.93	592.72	38.4	13.44	516.10
998P	41.7	13.49	12.79	562.53	39.5	15.35	606.33	38.4	14.01	537.98
ļ			,	Mon	thly data, not	seasonally ad	justed		1	
997:	40.0	040.45	040.00	AF70.04	20.0	615.17	#en2 77	20.4	042.70	#E00.05
December 998:	43.0	\$13.47	\$12.68	\$579.21	39.8	\$15.17	\$603.77	38.4	\$13.72	\$526.85
January	41.9	13.40	12.70	561.46	39.3	15.27	600.11	38.1	13.77	524.64
February	41.7	13.41	12.72	559.20	39.9	15.29	610.07	38.5	13.85	533.23
March	41.7	13.47	12.76	561.70	39.4	15.24	600.46	38.4	13.86	532.22
April	40.8	13.46	12.83	549.17	39.1	15.27	597.06	38.1	13.90	529.59
May]	41.8	13.47	12.78	563.05	39.5	15.21	600.80	38.4	13.96	536.06
June	41.8	13.44	12.74	561.79	39,6	15.22	602.71	38.3	13.89	531.99
July	41.1	13.37	12.70	549.51	39.7	15.31	607.81	38.3	13.99	535.82
August	41.7	13.44	12.73	560.45	39.9 39.3	15.33	611.67	38.7	14.13	546.83
September	41.5	13.60	12.88	564.40		15.46	607.58	38.1	14.10	537.21
October	41.9	13.54	12.82 12.87	567.33 572.56	39.3 39.7	15.43 15.53	606.40 616.54	38.3	14.13	541.18 553.02
NovemberP	42.1	13.60						38.7	14.29	553.02
DecemberP	42.6	13.69	12.94	583.19	39.0	15.57	607.23	38.5	14.27	1 249.40

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, 1964 to date-Continued

Year and		Retail trade			ance, insurar and real estat			Services	
month	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
		<u> </u>			Annual averag	jes			
964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
965	36.6	1.82	66.61	37.2	2.39	88,91	35.9	2.05	73.60
966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
974	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
			114.60	36.4	4.27	155.43	33.3	4.31	143.52
976	32.1	3.57	1	1	4.54	165.26	33.0	4.65	153.45
977	31.6	3.85	121.66	36.4		•	32.8	4.99	163.67
978 979	31.0 30.6	4.20 4.53	130.20 138.62	36.4 36.2	4.89 5.27	178.00 190.77	32.8 32.7	5.36	175.27
Ì	00.0	4.00	4.47.00	20.0	5.70	209.60	32.6	5.85	190.71
980	30.2	4.88	147.38	36.2	5.79		_		
981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
982[29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
986	29.2	6.03	176.08	36.4	8,36	304.30	32.5	8.18	265.85
987	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
988	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
989	28.9	6.53	188.72	35.8	9.53	341.17	32.6	9.38	305.79
990	28.8	6.75	194.40	35.8	9.97	356.93	32.5	9.83	319.48
991	28.6	6.94	198.48	35.7	10.39	370.92	32.4	10.23	331.45
992	28.8	7.12	205.06	35.8	10.82	387.36	32.5	10.54	342.55
993	28.8	7.29	209.95	35.8	11.35	406.33	32.5	10.78	350.35
994	28.9	7.49	216.46	35.8	11.83	423.51	32.5	11.04	358.80
995	28.8	7.69	221.47	35.9	12.32	442.29	32.4	11.39	369.04
996	28.8	7.99	230.11	35.9	12.80	459.52	32.4	11.79	382.00
	28.9	8.34	241.03	36.1	13.33	481.21	32.6	12.28	400.33
997	29.1	8.75	254.63	36.4	14.05	511.42	32.7	12.85	420.20
998P	29.1	6.75	254.05	30.4	14.03	311.42	J2.7	12.00	720.20
		·	,	Monthly da	ta, not seasor	nally adjusted			,
1997:	 -	40		25.5		0.00.00	00.5	040.04	0444.00
December	29.2	\$8.51	\$248.49	35.9	\$13.64	\$489.68	32.6	\$12.61	\$411.09
January	28.1	8.63	242.50	36.1	13.70	494.57	32.4	12.66	410.18
	28.7	8.62	247.39	37.1	13.95	517.55	32.8	12.75	418.20
February	28.7	8.67	248.83	36.8	13.97	514.10	32.7	12.77	417.58
March	28.7	8.70	249.69	36.1	13.98	504.68	32.4	12.77	413.75
April	29.0	8.71	252.59	36.1	13.99	505.04	32.5	12.75	414.38
May			252.59	36.0	13.93	501.48	32.5	12.70	415.29
June	29.3	8.70							
July	29.8	8.71	259.56	36.1	13.94	503.23	32.9	12.67	416.84
August	29.9	8.74	261.33	36.9	14.11	520.66	33.2	12.75	423.30
September	29.1	8.90	258.99	35.9	14.10	506.19	32.3	12.97	418.93
October	28.9	8.86	256.05	36.1	14.20	512.62	32.6	13.01	424.13
November ^p December ^p	28.9	8.87	256.34	37.0	14.41	533.17	32.8	13.14	430.99
	29.2	8.89	259.59	36.1	14.33	517.31	32.7	13.18	430.99

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.

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision.

p = preliminary.

ESTABLISHMENT DATA EMPLOYMENT SEASONALLY ADJUSTED

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

(In thousands)

Total private		Jan. 124,640 104,954 25,297 592 52	Feb. 124,832 105,112 25,314 590	Mar. 124,914 105,186 25,276	Apr. 125,234 105,470		June	98 July 125,869	Aug.	Sept.	Oct.	Nov.P	Dec.P
Total Total private Goods-producing	124,289 104,609 25,193 592 52 94 338	124,640 104,954 25,297 592 52	124,832 105,112 25,314	124,914 105,186	125,234	125,562		<u> </u>		 	Oct.	Nov.P	Dec.P
Total private	104,609 25,193 592 52 94 338	104,954 25,297 592 52	105,112 25,314	105,186			125,751	125 869		l			
Goods-producing	25,193 592 52 94 338	25,297 592 52	25,314	·	105,470			120,000	126,191	126,363	126,527	126,778	127,156
	592 52 94 338	592 52	,	25,276)	105,734	105,938	106,043	106,269	106,435	106,579	106,802	107,121
	52 94 338	52	590		25,339	25,301	25,304	25,135	25,253	25,241	25,209	25,184	25,272
Mining Metal mining	94 338		52	587 51	582 51	579 51	578 51	571 50	571 50	568 50	564 50	560 50	557 50
Coal mining		94	93	93	92	92	90	89	90	89	89	90	89
Oil and gas extraction	100 1	338 108	338 107	336 107	332 107	329 107	330 107	325 107	323 108	321 108	317 108	312 108	309 109
Construction	5,810	5,881	5,902	5,860	5,930	5,917	5,946	5,970	5,989	5,981	6,012	6,054	6,158
General building contractors	1,351	1,365	1,371	1,373	1,385	1,388	1,401	1,410	1,413	1,410	1,419	1,412	1,434
Heavy construction, except building Special trade contractors	805 3,654	817 3,699	813 3,718	805 3,682	819 3,726	819 3,710	821 3,724	828 3,732	829 3,747	820 3,751	825 3,768	835 3,807	865 3,859
Manufacturing	18,791	18,824	18,822	18,829	18,827	18,805	18,780	18,594	18,693	18,692	18,633	18,570	18,557
Durable goodsLumber and wood products	11,118 798	11,154 800	11,159 800	11,166 801	11,170 802	11,156 803	11,144 801	10,989 802	11,106 802	11,090 805	11,059 806	11,010 808	10,997 810
Furniture and fixtures	515	517	519	520	524	526	524	528	526	524	524	524	527
Stone, clay, and glass products	555	562	561	558	561	559	562	561	564	564	564	567	570
Primary metal industries Fabricated metal products	716 1,491	719 1,496	718 1,497	719 1,497	718 1,498	716 1,495	717 1,490	706 i 1,477 i	714 1,490	712 1,487	706 1,486	698 1,481	697 1,480
Industrial machinery and equipment	2,196	2,200	2,202	2,205	2,201	2,201	2,202	2,193	2,190	2,185	2,175	2,161	2,151
Computer and office equipment Electronic and other electrical	381	381	381	381	377	376	375	375	373	374	371	369	366
equipment Electronic components and	1,712	1,719	1,720	1,722	1,720	1,716	1,714	1,701	1,694	1,688	1,680	1,669	1,667
accessories	676	680	680	681	678	677	672	667	661	659	654	650	648
Transportation equipment	1,878 1,001	1,882 1,002	1,886 1,004	1,887 1,002	1,890 1,004	1,886 998	1,882 993	1,772 878	1,884 995	1,883 995	1,887 1,000	1,878 998	1,872 989
Aircraft and parts	519	521	523	525	525	524	524	526	526	524	523	520	519
Instruments and related products Miscellaneous manufacturing	869 388	870 389	866 390	868 389	867 389	866 388	864 388	861 388	857 385	855 387	850 381	846 378	844 379
Nondurable goods	7,673	7,670	7,663	7,663	7,657	7,649	7,636	7,605	7,587	7,602	7,574	7,560	7,560
Food and kindred products	1,702	1,702	1,703	1,704	1,708	1,710	1,706	1,696	1,690	1,704	1,702	1,710	1,718
Tobacco products Textile mill products	41 611	40 608	41 606	41 604	42 605	41 603	40 599	40 594	40 591	39 593	40 589	40 583	39 579
Apparel and other textile products	808	805	796	796	787	780	776	772	762	761	746	735	731
Paper and allied products Printing and publishing	686 1,561	688 1,564	688 1,564	688 1,564	686 1,565	685 1,566	682 1,570	680 1,571	680 1,568	679 1,568	677 1,569	674 1,566	673 1,564
Chemicals and allied products	1,036	1,035	1,036	1,036	1,035	1,039	1,037	1,038	1,036	1,036	1,034	1,034	1,035
Petroleum and coal products	139	136	136	136	137	136	137	135	134	135	134	134	136
Rubber and misc. plastics products Leather and leather products	1,002 87	1,006 86	1,007 86	1,009 85	1,008 84	1,006 83	1,006 83	998 81	1,006 80	1,007 80	1,004 79	1,006 78	1,008 77
Service-producing	99,096	99,343	99,518	99,638	99,895	100,261	100,447	100,734	100,938	101,122	101,318	101,594	101,884
Transportation and public utilities	6,451	6,473	6,494	6,504	6,513			6,550					6,641
Transportation	4,135 230	4,148 231	4,164 231	4,170 231	4,173 231	4,191 232	4,196 232	4,208 231	4,235 232	4,237 234	4,247 234	4,254 234	4,277 235
Local and interurban passenger	455	450	450	400	450	450	450	400	400	400	407	400	
transit Trucking and warehousing	455 1,676	456 1,684	459 1,688	460 1,690	453 1,702	459 1,703	458 1,709	466 1,709	469 1,719	466 1,716	467 1,721	469 1,720	469 1,729
Water transportation	179	177	181	183	181	185	183	188	192	191	191	194	193
Transportation by air	1,138	1,142	1,145	1,146	1,147	1,151	1,154	1,154	1,161	1,166	1,167	1,168	1,181
Pipelines, except natural gas	14 443	14 444	14 446	14 446	14 445	14 447	14 446	14 446	14 448	14 450	14 453	14 455	14 456
Communications and public utilities	2,316	2,325	2,330	2,334	2,340	2,343	2,342	2,342	2,335	2,342	2,348	2,355	2,364
Communications Electric, gas, and sanitary services	1,457 859	1,466 859	1,471 859	1,475 859	1,484 856	1,486 857	1,488 854	1,488 854	1,483 852	1,490 852	1,498 850	1,501 854	1,510 854
Wholesale trade	6,731	6,759	6,769	6,783	6,798	6,815	6,821	6,827	6,838	6,862	6,864	6,875	6,882
Durable goods	4,002	4,017	4,030	4,039	4,050	4,059	4,067	4,072	4,084	4,094	4,096	4,103	4,105
Nondurable goods	2,729	2,742	2,739	2,744	2,748	2,756	2,754	2,755	2,754	2,768	2,768	2,772	2,777

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

(In thousands)

Petalitrade	Industry	1997			,		,	19	98				,	,
Building materials and garden supplies General merchandle slories 2,771 2756 2759 2784 2789 2796 2797 979 984 987 980 52 Comeral merchandle slories 2,771 2756 2759 2784 2786 2787 2789 2784 2,860 2,812 2,856 2,856 2,857 2,858 2	Industry	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P	Dec.P
Building materials and garden supplies 946 954 959 960 971 972 975 977 978 979 984 967 990 960 971 972 975 977 978 978 978 978 978 978	Retail trade	22.245	22.280	22.283	22.259	22.335	22,423	22,448	22.547	22.545	22.592	22.589	22.654	22,707
General merchandise sicres 2,771 2,771 2,776 2,766 2,769 2,7														999
Department stores														2,846
Food stories								2,457						2,512
Automotive dealers and service stations		3,517	3,528	3,533	3,536	3,533	3,542	3,538	3,552	3,551	3,557	3,554	3,557	3,560
New and used car dealers 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,057 1,059 1,054 1,056 1,056 1,057 1,059 1,054 1,056 1,056 1,056 1,057 1,059 1,054 1,055 1,0				}				l			1			
Apparel and accessory stores 1,103 1,108 1,100 1,099 1,105 1,106 1,108 1,111 1,112 1,109 1,101 1,104 1,1 1,102 1,109 1,001	stations	2,329	2,331	2,331		2,337	2,345	_,-						2,376
Eurniture and home furnishings stores 1,035 1,035 1,043 1,044 1,465 1,655 1,058 1,063 1,070 1,071 1,076 1,082 1,045														1,074
Eating and drinking places 7.682 7,685 7,694 7,685 7,681 7,714 7,726 7,780 7,779 7,770 7,770 7,700 7,776 7,700 7,7														1,101
Finance														1,087
Entence														2,901
Finance	Finance, insurance, and real estate	7.194	7.213	7.232	7.258	7.289	7,311	7,333	7,370	7,372	7,393	7,417	7,439	7,467
Depository institutions												3,598	3,606	3,621
Commercial banks			2,037	2,039	2,041	2,041	2,044	2,042	2,042	2,042	2,038	2,043	2,043	2,047
Savings institutions														1,458
Mortgage bankers and brokers 222 224 270 276 278 281 284 289 294 298 305 310 3 3 3 3 3 3 3 3 3														265
Security and commodity brokers 520 625 629 833 636 641 648 655 667 662 666 663 641 648 655 667 662 666 663 641 648 645 647 648 645 647 648 645 647 648 645 647 648 645 648 648 645 648 648 645 648 6														654
Holding and other investment offices 232 234 235 236 239 240 241 244 245 248 249 250 250 1susurance carriers 1susurance 232 231 2393 2346 2350 2356 2380 2350 2356 2380 2350 2356 2380 2350 2356 2380 2350 2356 2380 2350 2356 2380 2350 2356 2350 2350 2356 2350														314
Insurance carriers														667 253
Insurance carriers														2,364
Insurance agents, brokers, and services														1,611
Service 733 735 737 736 738 741 742 743 744 747 749 752 778		1,000	1,556	1,560	1,300	1,5/4	1,575	1,300	1,554	1,585	1,555	1,001	1,004	',5''
Real estate		733	735	737	736	738	741	742	743	744	747	749	752	753
Agricultrual services 694 696 695 706 700 700 707 713 718 719 722 737 77 101 719 101 719 722 737 77 101 719 101 719 722 737 77 710 719 719 722 737 77 710 719 719 722 737 77 710 719 719 719 719 722 737 77 710 719 719 719 719 719 719 719 719 719 719														1,482
Hotels and other lodging places	Services ¹	36,795	36,932	37,020										38,152
Personal services														750
Business services														1,778
Services to buildings														1,185 8,765
Personnel supply services 3,111 3,139 3,152 3,149 3,140 3,156 3,189 3,151 3,178 3,152 2,866 2,819 2,806 2,818 2,853 2,815 2,850 2,818 2,829 2,846 2,846														995
Help supply services														3.209
Computer and data processing services 1,493 1,507 1,522 1,538 1,561 1,578 1,601 1,622 1,632 1,643 1,661 1,678 1,601 1,602 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,603 1,601 1,602 1,603 1,603 1,601 1,602 1,603 1,603 1,601 1,602 1,603 1,603 1,601 1,602 1,603 1,603 1,601 1,602 1,603 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,603 1,601 1,602 1,601 1,602 1,603 1,601 1,602 1,601 1,602 1,601 1,602 1,601 1,602 1,601 1,602 1,601 1,602 1,601 1,705 1,717 1,718 1,744 1,744 1,745 1,744 1,445 1,44														2,863
Auto repair, services, and parking 1,143 1,147 1,144 1,145 1,146 1,155 1,155 1,155 1,162 1,167 1,168 1,169 1,174 1,1 Miscellaneous repair services 544 563 569 565 563 567 554 564 566 568 567 562 562 54 Amusement and recreation services 1,625 1,633 1,641 1,647 1,660 1,662 1,670 1,694 1,705 1,777 1,718 1,744 1,7 Health services 9,827 9,837 9,837 9,837 9,837 9,837 9,905 9,902 9,919 9,937 9,947 9,955 9,9 Offices and clinics of medical doctors 1,779 1,784 1,788 1,796 1,801 1,806 1,813 1,817 1,828 1,835 1,843 1,848 1,8 Hospitals 9,908 1,909 1,9	Computer and data processing	·	·						·				·	1,692
Miscellaneous repair services								, ,						1,176
Motion pictures														393
Amusement and recreation services														564
Health services														1,734
Offices and clinics of medical doctors 1,779 1,784 1,788 1,796 1,801 1,806 1,813 1,817 1,828 1,835 1,843 1,848 1,8 Nursing and personal care facilities 1,761 1,761 1,760 1,762 1,761 1,756 1,755 1,753 1,753 1,755 1,					9,867	9,873	9,887	9,905	9,902	9,919	9,937	9,947	9,955	9,958
Hospitals			1,784	1,788	1,796	1,801	1,806	1,813	1,817	1,828	1,835	1,843	1,848	1,846
Home health care services	Nursing and personal care facilities	1,761	1,759	1,761		1,760	1,762	1,761	1,756	1,754	1,758	1,755	1,753	1,751
Legal services 963 964 967 970 972 977 980 984 985 991 995 994 2 Educational services 2,160 2,169 2,179 2,189 2,192 2,195 2,200 2,205 2,198 2,218 2,238 2,244 2,2 Social services 2,561 2,570 2,587 2,587 2,595 2,609 2,627 2,657 2,632 2,652 2,659 2,673 2,6 Child day care services 572 575 574 575 577 575 577 575 577 575 577 749 747 749 752 758 762 764 7 769 741 744 746 749 747 749 752 758 762 764 7 764 7 749 747 749 752 758 762 764 7 7 802 92 92 91 91 </td <td>Hospitals</td> <td></td> <td></td> <td>3,920</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3,982</td>	Hospitals			3,920										3,982
Educational services														663
Social services 2,561 2,570 2,577 2,587 2,587 2,587 2,587 2,587 2,587 2,587 2,587 2,587 2,587 2,587 575 575 575 575 575 575 575 575 575 575 575 575 575 575 575 575 577 575 581 583 586 583 583 586														996
Child day care services														2,253
Residential care														2,688 590
Museums and botanical and zoological gardens 91 91 92 92 92 91 91 92 92 92 91 91 92 92 92 91 91 92 92 92 91 91 91 92 93 3,320 3,33 3,220 3,33 3,220 3,33 3,220 3,33 3,220 3,33 3,220 3,320 3,320 3,320 3,320 3,320 3,320														767
gardens 91 91 92 92 92 91 91 92 92 92 92 91 91 92 92 93 22 93 92 93 93 93 94 910 913 921 925 927 926 927 931 92 92 92 93 94 910 913 921 925 927 926 927 931 92 927 931 92 92		/30	/30	/ * '	, , , , , ,	/40	/49	('*'	743	752	/ 30	702	/04	, ,,,
Membership organizations 2,255 2,260 2,261 2,263 2,265 2,266 2,270 2,272 2,273 2,276 2,281 2,279 2,279 2,272 2,273 2,276 2,281 2,279 2,272 2,273 2,275 2,281 2,279 2,272 2,273 2,275 2,281 2,279 2,225 2,279 2,265 2,281 2,279 3,320 3,221 3,034 3,259 3,264 3,280 3,293 3,320 3,320 3,320 3,259 3,264 3,2		91	91	92	92	92	91	91	91	92	92	92	93	94
Engineering and management services 3,111 3,137 3,148 3,164 3,178 3,212 3,234 3,259 3,264 3,280 3,293 3,320 3,320 Engineering and architectural services 892 897 899 904 910 913 921 925 927 926 927 931 928 Management and public relations 988 1,004 1,007 1,012 1,011 1,029 1,037 1,052 1,055 1,066 1,075 1,092 1,000														2,283
Engineering and architectural services Management and public relations 892 897 899 904 910 913 921 925 927 926 927 931 926 927 931 928 928 927 931 928 928 928 928 928 928 928 928 928 928														3,337
Government 19,680 19,686 19,720 19,728 19,764 19,828 19,813 19,826 19,922 19,928 19,948 19,976 20,076 Federal 2,688 2,670 2,676 2,671 2,674 2,671 2,672 2,683 2,687 2,712 2,687 Federal, except Postal Service 1,819 1,822 1,819 1,815 1,814 1,810 1,813 1,816 1,813 1,834 1,832 1,832 1,832 1,832 1,832 1,832 1,832 1,832 1,832 1,832 1,832 1,84 1,810 1,813 1,816 1,813 1,834 1,832 <td></td> <td>934</td>														934
Federal 2,688 2,670 2,676 2,671 2,674 2,671 2,674 2,671 2,674 2,672 2,683 2,687 2,713 2,712 2,668 2,671 2,674 2,671 2,674 2,671 2,674 2,672 2,683 2,687 2,713 2,712 2,668 2,683 2,681 1,813 1,813 1,810 1,813 1,813 1,813 1,813 1,813 1,813 1,813 1,813 1,813 1,813 1,814 1,813 1,814 <		988	1,004	1,007	1,012	1,011	1,029	1,037	1,052	1,055	1,066	1,075	1,092	1,095
Federal, except Postal Service 1,819 1,822 1,819 1,815 1,814 1,810 1,813 1,810 1,813 1,816 1,813 1,834 1,832 1,832 1,832 1,834 1,832 1,832 1,834 1,832 1,834 1,832 1,834 1,834 1,832 1,832 1,834 1,832 1,832 1,834 1,834 1,832 1,834 1,832 1,834 1,834 1,832 1,834 <														20,035
State 4,611 4,613 4,613 4,619 4,620 4,637 4,632 4,645 4,661 4,680 4,671 4,672 4,7 Education 1,924 1,924 1,924 1,928 1,925 1,932 1,933 1,938 1,949 1,960 1,949 1,944 1,9 Other State government 2,687 2,689 2,689 2,691 2,695 2,705 2,699 2,707 2,712 2,720 2,722 2,728 2,7 Local 12,381 12,403 12,431 12,438 12,470 12,520 12,507 12,509 12,561 12,564 12,592 12,69														2,691
Education 1,924 1,924 1,924 1,928 1,925 1,932 1,933 1,938 1,949 1,960 1,949 1,944 1,900 Other State government 2,687 2,689 2,689 2,691 2,695 2,705 2,699 2,707 2,712 2,720 2,722 2,728 2,7 Local 12,381 12,403 12,431 12,438 12,470 12,520 12,507 12,509 12,578 12,561 12,564 12,592 12,69	_ '													1,821
Other State government														4,706
Locai														1,974
														2,732
		6,965	6,980	6,999	7,003	7,023	7,053	7,045	7,078	7,128	7,088	7,083		12,638
														7,142 5,496
Other local government	Other local government	3,410	5,423	3,432	3,435	5,447	3,467	3,462	0,401	3,450	5,473	0,401	5,475	0,490

¹ Includes other industries, not shown separately.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1997

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 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)

		1997						19	98				
Industry	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.
Total	59,810	59,974	60,114	60,220	60,308	60,380	60,460	60,689	60,791	60,893	61,008	61,130	61,184
Total private	48,884	49,026	49,142	49,239	49,306	49,369	49,446	49,626	49,725	49,854	49,893	49,975	50,024
Goods-producing	6,732	6,741	6,759	6,766	6,767	6,770	6,759	6,762	6,763	6,703	6,722	6,724	6,696
Mining	82	82	83	83	83	83	82	82	82	81	82	82	80
Construction	643	645	648	650	654	655	656	662	669	672	677	676	679
Manufacturing	6,007	6,014	6,028	6,033	6,030	6,032	6,021	6,018	6,012	5,950	5,963	5,966	5,937
Durable goods	2,945	2,952	2,962	2,973	2,979	2,982	2,980	2,976	2,976	2,938	2,954	2,951	2,941
Lumber and wood products	138	139	139	140	141	141	141	141	142	143	143	144	144
Furniture and fixtures	161	161	162	163	164	165	166	166	167	168	167	166	167
Stone, clay, and glass products		106	105	107	107	107	106	107	107	107	107	106	107
Primary metal industries	103 330	104 330	104 331	104 333	104 334	104 334	105 334	103 334	105 334	102 334	104 336	104 336	104 336
Fabricated metal productsIndustrial machinery and equipment		482	484	485	486	485	485	482	482	478	475	474	472
Electronic and other electrical equipment	706	708	712	714	716	716	712	710	708	702	697	695	687
Transportation equipment	397	399	401	400	401	402	404	406	406	380	402	404	406
Instruments and related products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing	171	169	170	171	171	171	171	171	170	169	169	169	166
Nondurable goods	3,062	3,062	3,066	3,060	3,051	3,050	3,041	3,042	3,036	3,012	3,009	3,015	2,996
Food and kindred products	555	557	558	559	559	559	560	562	560	548	554	559	555
Tobacco products	13	13	13	13	13	13	14	13	13	12	12	12	13
Textile mill products	284	283	283	281	280	278	279	279	277	276	274	275	274
Apparel and other textile products		594	594	589	582	583	575	571	567	565	557	555	542
Paper and allied products	167	168	168	168	168	168	167	167	167	165	165	165	165
Printing and publishing	704	705	705	706	705	706	705	707	710	710	707	708	709
Chemicals and allied products		330	331	330	331 24	330 24	330 24	332 24	331 24	333	332 23	333 23	331 23
Petroleum and coal products	24 341	24 342	25 343	24 345	344	344	343	343	343	338	343	343	342
Rubber and misc. plastics products Leather and leather products	46	46	343 46	345 45	45	45	44	343	44	42	42	42	42
		1		, ,									
Service-producing	53,078	53,233	53,355				53,701				54,286	54,406	,
Transportation and public utilities	1,944	1,944	1,939	1,946	1,948	1,949	1,951	1,960	1,963	1,969	1,980	1,991	2,002
Wholesale trade	2,066	2,066	2,067	2,078	2,077	2,078	2,082	2,089	2,090	2,096	2,096	2,096	2,099
Retall trade	11,632	11,677	11,700	11,713	11,712	11,707	11,720	11,786	11,819	11,884	11,875	11,902	11,898
Finance, insurance, and real estate	4,498	4,511	4,526	4,539	4,546	4,563	4,582	4,593	4,604	4,617	4,619	4,629	4,643
Services	22,012	22,087	22,151	22,197	22,256	22,302	22,352	22,436	22,486	22,585	22,601	22,633	22,686
Government	10,926	10,948	10,972	10,981	11,002	11,011	11,014	11,063	11,066	11,039	11,115	11,155	11,160
Federal		1,144	1,154	1,141	1,140	1,137	1,136	1,136	1,142	1,127	1,133	1,137	1,148
State	2,360	2,365	2,363	2,365	2,367	2,371	2,369	2,375	2,377	2,385	2,397	2,405	2,406
Local	7,424	7,439	7,455	7,475	7,495	7,503	7,509	7,552	7,547	7,527	7,585	7,613	7,606
						L	L		L	<u> </u>	<u> </u>		

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 1997 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 forward are subject to revision.

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

(In thousands)

	1997						19	98					
industry	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P	Dec.p
	}			1				İ					
Total private	85,705	85,947	86,073	86,113	86,282	86,526	86,698	86,787	86,903	87,072	87,188	87,319	87,570
Goods-producing	17,947	18,039	18,037	17,996	18,043	17,989	17,984	17,803	17,896	17,910	17,889	17,860	17,960
Mining	449	450	450	445	440	440	438	434	432	431	428	424	423
Construction	4,497	4,566	4,563	4,538	4,596	4,578	4,603	4,623	4,628	4,614	4,640	4,669	4,773
Manufacturing	13,001	13,023	13,024	13,013	13,007	12,971	12,943	12,746	12,836	12,865	12,821	12,767	12,764
Durable goods Lumber and wood products Furniture and fixtures Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electrical equipment Transportation equipment Motor vehicles and equipment Instruments and related products Miscellaneous manufacturing Nondurable goods Food and kindred products Tobacco products Textile mill products Apparel and other textile products Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and misc. plastics products	658 410 436 562 1,125 1,386 1,280 790 (2) 272 5,357 1,263 32 519 656 524	7,669 660 412 441 564 1,130 1,389 1,279 787 (2) 273 5,354 1,265 32 516 652 525 850 89 780	7,676 660 413 441 564 1,132 1,391 1,087 1,283 (2) 273 5,348 1,267 32 514 645 5525 848 582 89 781	7,669 659 415 436 565 1,131 1,391 1,085 1,281 784 (2) 273 5,344 1,267 32 513 643 525 845 583 89 783	7,666 660 418 436 563 1,132 1,389 1,081 1,279 784 (2) 274 5,341 1,271 33 513 633 524 846 583 90 784	7,642 660 419 436 561 1,127 1,389 1,079 1,267 774 (2) 271 5,329 1,273 32 511 627 522 847 584 89 781	7,626 658 417 438 561 1,122 1,392 1,075 1,262 768 (2) 270 5,317 1,270 31 509 624 520 848 584 89 780	7,468 661 420 438 551 1,111 1,385 1,062 1,138 641 (2) 271 5,278 1,256 30 503 622 516 846 584 89 771	7,577 660 418 440 558 1,118 1,384 1,056 7,52 (2) 269 5,259 1,249 30 499 613 517 844 581 88 778	7,584 661 417 441 557 1,120 1,380 1,059 1,251 757 (2) 269 5,281 1,265 31 502 612 517 844 582 89 780	7,566 662 417 441 553 1,118 1,377 1,050 1,257 762 (2) 264 5,255 1,264 31 499 596 515 844 581 89 777	7,526 664 417 444 546 1,115 1,368 1,039 1,245 754 (2) 263 5,241 1,272 31 493 587 512 840 580 89 779	7,522 664 421 446 545 1,114 1,361 1,041 752 (2) 264 5,242 1,277 31 488 584 513 836 583 91 782
Leather and leather products	}	65	65	64	64	63	62	61	60	59	59	58	57
Service-producing	67,758	67,908	68,036	68,117	68,239	68,537	68,714	68,984	69,007	69,162	69,299	69,459	69,610
Transportation and public utilities	5,367	5,374	5,372	5,375	5,373	5,402	5,401	5,424	5,456	5,457	5,472	5,484	5,509
Wholesale trade	5,407	5,426	5,431	5,436	5,448	5,457	5,464	5,477	5,479	5,497	5,500	5,505	5,511
Retail trade	19,570	19,585	19,605	19,582	19,596	19,710	19,719	19,817	19,795	19,828	19,825	19,860	19,890
Finance, insurance, and real estate	5,264	5,287	5,307	5,329	5,353	5,367	5,391	5,416	5,417	5,426	5,449	5,460	5,481
Services	32,150	32,236	32,321	32,395	32,469	32,601	32,739	32,850	32,860	32,954	33,053	33,150	33,219

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 1997 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 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	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
					Private no	onfarm pay	yrolls, 356	industries	1			
Over 1-month span: 1994	59.3 62.5 50.8 58.0 63.8	60.5 60.0 64.6 61.4 58.7	67.0 54.9 59.6 59.8 59.6	64.5 55.6 56.6 63.6 56.9	58.6 47.8 62.8 60.1 56.6	63.3 55.6 61.0 54.6 59.0	63.8 54.8 57.3 61.1 55.1	61.7 59.0 61.5 59.1 53.9	61.5 58.0 56.0 60.0 53.5	60.4 55.8 62.5 64.3 52.4	64.0 54.5 62.2 62.4 P54.4	61.7 58.8 60.7 64.9 P59.3
Over 3-month span: 1994 1995 1996 1996 1997	64.5 63.6 61.9 64.9 68.4	69.2 61.4 62.8 63.3 67.3	69.9 59.4 64.0 65.6 64.2	68.4 53.1 63.8 66.2 61.7	66.6 55.2 63.5 63.9 60.4	67.1 53.2 64.9 61.2 58.4	69.0 59.7 64.2 60.1 57.2	69.5 60.1 61.5 65.9 56.7	66.2 59.1 63.9 67.4 56.0	65.6 58.0 64.2 68.1 P54.4	66.6 56.6 67.0 70.8 P58.0	66.3 54.6 66.6 71.9
Over 6-month span: 1994 1995 1996 1997 1998	70.9 66.4 62.8 67.6 72.1	69.9 60.1 65.4 67.0 70.9	69.7 59.1 64.7 65.3 69.4	71.2 57.3 65.7 64.9 63.5	70.2 59.0 66.2 65.6 64.5	69.8 60.1 65.0 67.3 61.8	69.8 57.6 66.4 68.0 59.0	70.2 60.4 66.0 67.3 P58.6	68.7 59.7 66.2 70.6 P59.1	67.4 59.3 67.6 72.3	66.7 61.1 66.9 73.3	65.4 63.2 66.3 72.6
Over 12-month span: 1994 1995 1996 1997	70.2 63.6 64.5 69.8 71.2	71.6 62.4 66.7 67.6 69.5	71.8 62.6 64.5 69.2 69.5	71.8 63.3 65.6 70.1 66.6	72.1 61.7 68.5 69.8 P64.5	71.8 61.9 67.3 69.8 P63.2	71.5 58.7 67.7 71.2	72.1 62.2 66.4 71.2	70.1 62.2 68.0 71.1	69.5 61.5 69.9 73.0	66.6 63.5 69.1 72.9	65.0 65.4 68.3 72.3
					Manufac	turing pay	rolls, 139 i	ndustries ¹				
Over 1-month span: 1994	56.8 54.7 42.8 49.3 55.8	56.5 54.3 54.7 54.3 51.8	60.1 46.4 48.2 50.0 52.5	59.0 53.2 42.1 56.8 48.6	53.6 42.4 55.4 51.4 45.0	58.3 44.2 50.7 52.2 47.8	59.0 46.4 47.1 50.4 39.6	55.8 49.6 55.4 48.9 47.5	53.6 48.6 47.8 56.5 43.2	56.5 52.2 52.9 57.2 38.8	58.3 45.3 54.3 56.1 P37.4	56.8 48.2 55.4 60.8 P47.8
Over 3-month span: 1994 1995 1996 1997	60.4 56.8 43.9 54.3 60.1	63.7 50.0 46.8 49.3 59.0	63.7 47.8 46.0 54.3 50.7	60.4 42.1 47.5 54.0 46.4	57.6 43.2 46.4 55.4 43.2	59.7 38.8 49.3 50.4 38.8	61.9 40.6 51.4 47.5 36.7	56.8 43.5 50.0 52.2 34.2	54.3 48.2 53.6 57.9 41.4	55.4 47.1 51.1 62.6 P30.9	60.8 45.3 57.6 64.7 P35.6	59.0 39.9 54.7 65.5
Over 6-month span: 1994 1995 1996 1997 1998	60.4 55.4 42.1 54.3 61.5	62.9 46.4 45.3 54.3 56.8	61.2 42.8 46.4 51.4 52.2	62.6 40.3 47.1 52.9 39.2	59.4 41.4 48.2 51.4 40.6	57.2 42.4 48.6 55.0 34.5	57.6 41.0 51.1 56.8 30.9	58.6 41.0 50.4 57.6 P29.1	58.6 43.9 52.9 60.4 P32.4	54.7 43.2 52.9 64.4	57.2 43.2 53.2 67.6	55.0 45.3 52.2 65.8
Over 12-month span: 1994	57.9 46.0 43.5 57.2 50.7	58.6 44.2 47.5 52.5 51.1	60.8 46.0 45.3 54.7 50.4	60.8 47.8 45.3 56.5 41.7	60.8 41.0 50.4 57.9 P37.4	63.3 41.7 49.6 57.6 P36.0	59.4 38.5 50.4 58.6	60.1 38.8 48.6 58.6	57.2 36.3 51.1 60.4	56.5 38.5 55.0 60.4	50.4 39.9 54.0 59.4	49.6 44.6 51.8 58.3

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.

where 50 percent indicates an equal balance between industries with increasing and decreasing employment. Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1997) and all seasonally adjusted data (beginning January 1994) are subject to revision.

P = preliminary.

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

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

(In thousands)

O+-:	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.P
							Total ¹	,		,	,	,	
Nabama	1,871.0	1,871.9	1,876.0	1,877.2	1,879.4	1,878.2	1,882.3	1,884.4	1,881.5	1,886.3	1,886.1	1,886.2	1,886
Naska	268.8	268.3	270.2	273.1	273.7	273.8	274.1	274.1	276.1	274.1	273.9	273.8	274
Arizona	2,011.8	2,021.9	2,031.5	2,037.9	2,045.6	2,048.3	2,060.0	2,073.8		2,072.9	2,092.9	2,091.0	2,105
\rkansas		1,111.6	1,110.5	1,113.1	1,118.9	1,124.0	1,125.8	1,125.5		1,130.1	1,125.5	1,126.1	1,129
California	13,367.0	13,398.3	13,401.2	13,439.9	13,485.6	13,512.4	13,556.0	13,582.6	13,586.2	13,619.7	13,656.0	13,698.2	13,727
colorado	2,003.3	2,009.5	2,017.8	2,019.9	2,023.9	2,022.0	2,038.1	2,045.3	2,054.9	2,054.2	2,062.0	2,065.5	2,063
Connecticut		1,642.6	1,639.6	1,641.2	1,639.6	1,641.9	1,641.8	1,644.9	1,643.8	1,649.9	1,640.7	1,649.7	1,654
Delaware	393.6	395.5	394.6	396.6	398.0	398.3	400.3	399.7	399.0	401.1	403.1	404.2	40€
District of Columbia	610.8	610.4	613.1	609.4	610.9	609.7	610.3	610.6	605.0	611.9	612.2	611.7	612
Florida	6,534.1	6,551.6	6,566.0	6,577.9	6,604.1	6,610.3	6,645.5	6,667.0	6,692.9	6,708.3	6,728.4	6,743.6	6,765
Seorgia	3.674.8	3.690.0	3.690.7	3,707.4	3,714.9	3,718.2	3,729.2	3,727.7	3.724.9	3,740.4	3,752.8	3,757.5	3,773
lawaii		530.5	528.6	528.4	529.0	527.8	527.7	525.6	522.6	526.6	531.0	526.7	524
daho	513.5	514.0	515.1	516.1	516.7	516.6	516.1	516.9	519.4	521.3	519.1	523.6	524
llinois	5,823.5	5,833.8	5,837.8	5,833.2	5,834.5	5,852.9	5,863.7	5,877.4	5,884.7	5,879.1	5,880.0	5,890.5	5,884
ndiana	2,873.9	2,884.0	2,874.6	2,878.8	2,880.0	2,891.4	2,898.7	2,885.8	2,861.6	2,879.3	2,884.9	2,886.7	2,882
owa	1,416.9	1,419,2	1,423.0	1,426.1	1,429.2	1,436.7	1,439.0	1,439.9	1,450.6	1,442.2	1,442.2	1,448.5	1,444
(ansas	1,282.8	1,287.4	1,291.5	1,294.4	1,294.4	1,297.7	1,305.7	1,304.2	1,305.4	1,305.3	1,309.2	1,312.2	1.315
Centucky	1,726.2	1,732.0	1,738.5	1,735.4	1,738.0	1,745.1	1,749.3	1,751.9	1,747.1	1,759.2	1,756.4	1,755.4	1,757
ouisiana	1,867.7	1,869.8	1,870.5	1,875.8	1,879.5	1,879.4	1,884.5	1,890.0	1,885.4	1,882.6	1,884.8	1,885.5	1,890
Aaine	560.8	561.4	558.1	560.8	561.0	561.0	560.9	562.3	564.1	564.9	567.9	569.3	570
Maryland	2,272.1	2.273.8	2.282.0	2.282.4	2.277.2	2.272.8	2.272.0	2.275.3	2.279.2	2.282.4	2,298,8	2.309.3	2.317
Massachusetts	3,157.6	3.168.4	3,173.0	3,185.5	3,190.6	3,196.7	3,207.5	3,205.1	3,212.4	3,208.9	3,210.3	3,212.4	3,218
Aichigan	4,471.1	4,489.6	4,495.7	4,506.7	4,503.3	4,525.7	4,541.4	4,541.2	4,474.9	4,541.9	4,554.9	4,565.4	4,564
finnesota	2,512.6	2,518.5	2,514.1	2,522.3	2,530.1	2,528.3	2,541.8	2,551.7	2,554.7	2,559.6	2,547.5	2,564.1	2,568
Aississippi	1,113.1	1,112.6	1,117.6	1,120.9	1,117.2	1,120.7	1,122.9	1,121.4	1,128.9	1,122.6	1,119.3	1,124.7	1,124
Aissouri	2,652.0	2,658.9	2,664.4	2,662.9	2,651.6	2,663.3	2,675.3	2,677.7	2,666.5	2,676.2	2,686.7	2,687.5	2,689
Montana	369.0	370.3	368.7	370.6	370.2	370.6	373.0	368.4	370.9	369.9	370.1	370.5	371
lebraska	866.4	868.6	874.0	878.5	873.0	878.2	876.5	876.2	880.6	877.0	878.8	879.8	879
levada		907.2	907.0	912.8	916.0	920.9	921.8	927.8	931.8	935.2	940.5	948.1	948
lew Hampshire	572.5	570.0	572.7	572.6	570.7	573.8	574.2	573.9	575.6	570.4	569.3	571.6	569
lew Jersey	3,758.2	3,766.5	3,771.3	3,784.2	3,788.0	3,785.2	3,796.8	3,801.8	3,796.4	3,804.0	3,815.0	3,815.6	3,821
lew Mexico	713.3	713.9	712.7	713.1	714.4	713.0	715.2	719.2	720.5	722.5	722.2	723.3	723
lew York	8,083.4	8,095.6	8,082.4	8,098.6	8,117.5	8,124.9	8,140.0	8,146.4	8,138.4	8,166.8	8,187.1	8,207.4	8,218
lorth Carolina	3,716.8	3,715.4	3,719.6	3,734.1	3,735.5	3,739.3	3,746.2	3,739.5	3,728.2	3,776.5	3,753.3	3,760.4	3,767
lorth Dakota	315.1	316.2	317.4	319.0	318.1	318.0	318.6	320.0	319.9	317.0	317.5	316.8	316
Ohio	5,417.1	5,421.7	5,439.2	5,436.3	5,445.3	5,448.6	5,460.4	5,459.1	5,431.7	5,470.7	5,475.6	5,484.4	5,485
Oklahoma		1,405.1	1,405.7	1,410.7	1,415.9	1,418.4	1,427.8	1,423.5	1,421.9	1,430.3	1,436.7	1,436.7	1,443
Oregon	1,536.9	1,551.0	1,551.8	1,557.3	1,561.9	1,563.9	1,564.6	1,563.6	1,564.5	1,563.8	1,566.7	1,573.0	1,579
Pennsylvania	5,434.4	5,446.5	5,453.9	5,448.0	5,447.2	5,455.7	5,457.B	5,444.0	5,464.2	5,460.8	5,491.8	5,479.5	5,487
Phode Island	451.1	453.4	452.7	454.1	453.7	455.3	456.8	455.0	454.6	453.4	455.2	455.2	456
outh Carolina	1,735.0	1,749.1	1,763.5	1,767.8	1,775.6	1,784.8	1,788.2	1,804.1	1,794.9	1,797.3	1,804.3	1,806.4	1,816
outh Dakota	355.7	356.1	354.9	357.0	357.3	358.0	360.3	358.5	360.0	360.5	361.0	361.8	362
ennessee	2,603.0	2,605.3	2,618.6	2,620.7	2,623.6	2,623.5	2,621.3	2,623.5	2,620.9	2,616.2	2,625.9	2,634.8	2,637
exastah	8,732.1 1,010.6	8,760.7 1,014.3	8,755.4 1,015.6	8,801.2 1,018.2	8,824.5 1,024.3	8,855.0 1,024.4	8,873.9 1,026.3	8,877.8 1,024.1	8,888.3 1,022.0	8,915.1 1,024.4	8,938.6 1,027.8	8,955.4 1,030.9	8,970 1,031
	i ' I			i i						i i			
rginia	279.7 3.267.2	281.4 3.278.7	279.3 3.280.0	280.0 3.291.1	280.1 3.303.6	281.5 3.306.9	282.6 3.314.1	283.8 3.322.2	282.3 3.331.8	283.9 3.337.7	283.7 3.340.1	282.9 3.343.1	283 3.345
Vashington	2.534.5	2.543.6	2.546.0	2,558.5	2.566.4	2.576.5	2.587.9	2,593.4	2,606.1	2,615.1	2,603.4	2,609.9	2,612
Vest Virginia	717.7	717.1	715.3	715.6	715.2	715.1	724.2	714.2	713.3	717.2	721.7	726.6	724
Visconsin	2,679.4	2,684.9	2,691.4	2,694.1	2,696.5	2,702.6	2,709.6	2.713.1	2.709.5	2.724.8	2,717.0	2.715.8	2.725

ESTABLISHMENT DATA STATE EMPLOYMENT SEASONALLY ADJUSTED

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

(in thousands)

Chart.	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
	ļ					Co	nstruction						
Alabama	96.5	96.2	97.1	97.9	97.0	98.7	100.2	100.8	101.2	101.9	100.0	99.7	100.6
Alaska	12.7	12.8	12.8	12.8	12.8	13.0	13.0	13.2	13.2	13.2	12.9	12.9	13.2
Arizona	131.4	131.6	134.5	133.5	134.5	133.3	135.2	136.7	137.7	137.0	139.5	139.9	140.9
Arkansas	48.0 573.1	48.1 577.9	47.5 583.4	47.5 582.3	47.7 591.9	48.8 591.6	49.4 593.1	49.3 604.6	49.6 613.1	49.3 616.2	49.9 615.3	49.9 623.8	50.2 627.2
Colorado	118.0	122.1	127.3	128.0	127.9	126.5	127.1	126.8	127.6	128.2	131.2	132.5	131.
Connecticut	58.1	58.9	60.1	60.1	59.8	59.6	59.0	58.4	58.5	58.8	59.6	59.8	60.
Delaware	22.2	22.5	23.1	22.8	22.2	22.1	21.7	22.1	22.5	22.6	22.9	22.9	23.
District of Columbia	8.4 339.3	8.8 339.9	8.7 340.5	8.8 340.6	8.9 342.6	8.7 344.5	8.6 347.0	8.8 348.1	8.9 348.8	8.6 351.7	8.5 350.3	8.4 352.6	8. 353.
Georgia	173.3	175.2	177.2	177.2	178.2	178.5	179.7	180.0	179.8	181.7	182.7	183.0	183.
lawaii ²	21.9	21.8	21.9	21.9	22.1	21.8	21.9	21.6	20.9	21.3	20.8	19.8	19.
daho	32.5	32.3	32.7	33.2	32.6	32.9	31.9	32.4	32.2	32.8	32.3	32.7	32.
llinois	239.3	239.1	239.8	240.8	235.9	241.4	238.8	239.5	237.6	238.8	240.3	242.2	241.
ndiana	142.3	142.9	143.3	143.8	140.6	144.5	143.2	138.6	139.9	139.1	138.4	139.3	139.
owa	60.5	61.0	60.1	60.3	60.6	62.3	62.6	62.5	63.3	62.4	62.3	62.3	61.
Cansas	59.4	59.3	60.7	60.8	58.5	60.2	61.7	62.0	62.2	62.7	61.9	62.1	62.
Centucky	81.6	82.3	85.2	83.3	85.4	86.3	86.4	86.1	85.8	86.1	85.9	85.9	85.
ouisiana	117.4	117.1	117.9	118.0	118.4	118.6	119.8	122.2	123.3	122.8	122.4	123.8	125.
Maine	24.4	24.4	24.4	24.4	24.2	24.1	24.2	24.4	24.6	25.0	25.4	25.4	25.
Maryland	139.7 102.5	140.3 104.4	140.6 107.9	140.1 108.8	137.4 108.3	136.6 108.2	134.4 107.8	134.6 107.4	135.8 108.9	137.4 108.8	137.2 107.4	138.9 108.2	139. 110.
Michigan	184.1	186.1	184.8	187.3	184.6	190.3	188.0	189.0	187.7	185.9	185.5	188.3	189.
/linnesota	95.7	96.3	97.6	99.4	99.2	99.7	100.4	99.7	99.2	100.2	101.2	100.9	102.
Mississippi	51.6	51.5	52.7	52.6	51.9	52.4	52.2	53.5	55.3	55.0	54.6	55.6	56.
Missouri	125.2	124.9	123.1	124.8	118.5	123.6	124.0	122.8	127.8	126.8	127.3	128.7	129.
Montana	18.6	18.9	18.9	18.7	18.2	18.0	18.2	17.8	18.3	18.0	17.3	17.4	17.
Nebraska	39.2 83.7	40.9 84.0	42.8 85.1	42.4 85.2	40.8 86.1	40.9 87.0	40.7 87.6	39.9) 89.6	40.3 90.5	41.0 91.3	40.6 90.6	40.6 89.6	40. 89.
Nevada New Hampshire	21.0	21.4	21.8	22.0	22.2	22.4	22.4	21.9	22.0	21.8	21.8	21.6	21.
New Jersey	131.8	131.9	135.6	137.1	136.4	136.2	135.4	135.8	136.7	137.3	138.5	137.8	138.
New Mexico	42.2	42.2	42.1	42.1	42.2	42.6	42.9	43.2	43.4	43.5	43.0	43.2	42.
New York	267.8	268.1	265.6	268.5	270.6	271.8	273.5	275.8	280.5	280.0	280.7	283.5	285.
North Carolina North Dakota	207.9 14.8	208.7 14.9	211.7 15.1	208.7 15.2	209.5 15.1	210.3 15.3	210.6 15.5	210.6 16.2	210.0 16.1	210.2 15.6	210.3 15.1	212.1 15.0	213. 14.
Ohio	225.4	225.3	226.7	228.4	228.1	232.9	233.5	233.4	232.0	234.4	233.8	232.9	233.
Oklahoma	50.9	50.8	51.8	52.1	52.3	52.5	53.0	53.0	52.9	52.8	53.2	52.8	52.
Oregon	83.1	84.6	82.3	84.3	84.9	85.7	83.0	82.0	82.0	82.9	81.7	84.6	85.
Pennsylvania	216.4	217.1	218.4	219.4	220.6	222.2	223.2	222.9	220.8	221.6	220.6	220.2	222.
Rhode Island	14.9	15.1	15.4	15.5	16.1	16.9	16.6	16.4	16.3	16.7	16.7	17.1	17.
South Carolina	101.6	103.3	104.9	106.0	106.7	107.9	108.8	109.7	109.4	110.4 15.5	111.1 15.6	111.5 15.7	111. 15.
South Dakota	15.7 117.8	15,9 118,1	15.9 117.0	16.0 117.7	15.6 119.2	15.9 120.3	15.9 120.7	15.8 119.4	15.7 121.0	15.5	121.9	122.7	15.0 123.0
Tennessee	464.5	467.0	468.1	476.7	477.8	480.3	484.7	484.6	487.6	488.7	485.8	488.6	490.4
Jtah	65.8	66.5	65.7	66.5	67.3	67.7	68.6	67.9	68.3	68.3	67.1	68.2	69.3
Vermont	12.8	13.3	12.7	12.6	12.5	13.0	13.2	13.3	13.2	13.0	13.0	13.1	13.:
Virginia	188.3	189.0	190.2	191.5	192.9	193.4	194.9	195.5	196.8	198.0	196.9	198.5	198.
Washington	136.8	136.6	137.7	138.2	138.9	140.1	141.5	141.9	143.2	143.4	142.1	142.5	143.
West Virginia	35.6	35.5	36.2	35.4	34.3	35.5	33.9	35.2	35.2	34.9	35.0	36.5	36.
Wisconsin	109.4	110.0	110.2 14.9	111.6 15.0	110.9 15.1	111.9 15.3	113.3 15.9	112.8 15.2	113.6 15.7	114.2 16.1	113.7 15.4	114.2 15.2	116. 15.
Wyoming	15.2	14.9	14.9	15.0	15.1	15.3	15.9	19.2	15.7	10.1	15.4	10.2	15.

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

(In thousands)

2	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
	L					Ma	nufacturin	g 					
Nabama	378.7	378.6	380.2	379.2	378.0	377.1	376.6	375.0	372.1	373.2	373.9	371.4	369.
Naska	15.5	13.9	15.5	16.4	16.3	15.5	14.1	14.8	15.9	14.7	14.8	15.0	15.
Arizona	211.6	212.9	214.7	215.0	215.1	215.5	215.1	215.7	216.3	216.5	216.6	216.6	216.
Arkansas	253.3	254.0	255.5	255.3	255.1	255.6	255.3	255.8	253.2	254.7	253.9	253.9	253
California	1,936.5	1,941.6	1,943.2	1,945.2	1,947.1	1,944.3	1,947.4	1,944.9	1,931.6	1,934.0	1,943.0	1,946.1	1,939
Colorado	206.6	207.7	206.9	208.4	208.8	208.4	208.0	208.3	208.4	207.2	205.8	206.5	206
Connecticut	276.0	276.3	277.1	276.9	277.0	277.6	276.7	276.4	277.2	278.0	276.4	275.9	275
Delaware	58.4	58.7	56.7	57.3	58.8	58.8	59.1	59.4	56.9	59.0	58.9	59.0	59.
District of Columbia	12.6	12.6	12.8	12.7	12.8	12.8	12.8	12.7	12.8	12.9	12.8	12.9	12.
Florida	491.5	491.9	491.8	491.7	491.3	491.9	492.1	490.6	491.2	491.0	491.7	490.3	488.
Georgia	589.3	590.0	589.1	587.1	589.9	590.4	591.4	591.3	587.5	594.0	590.9	593.7	593.
-lawaji		16.5	16.5	16.4	16.4	16.3	16.2	16.1	16.0	15.9	16.1	16.0	16.
daho		75.8	76.4	76.7	76.3	76.3	76.2	75.7	75.7	75.4	74.9	75.7	75.
llinois	979.5	980.9	981.3	980.2	980.5	981.8	980.1	980.2	978.0	976.7	978.2	981.3	973.
ndiana	678.4	679.6	678.6	680.1	682.9	681.4	682.0	681.8	668.8	682.0	680.0	681.4	681.
lowa	256.1	256.3	256.5	257.0	258.4	258.3	259.1	259.2	263.6	260.1	258.7	259.8	259.
Kansas		208.9	209.7	210.2	210.4	210.8	211.8	210.6	208.9	212.4	212.0	212.3	212
Kentucky	315.9	316.7	318.6	317.9	314.9	315.7	316.1	316.0	312.9	315.4	315.9	315.6	314.
ouisiana	190.7	190.8	190.8	190.4	190.5	189.9	190.2	189.0	187.5	190.5	189.8	188.6	190.
Maine	87.8	88.1	88.1	88.2	87.4	87.3	87.0	86.8	86.5	86.1	87.2	86.6	86.
			470.0	4774	470.0	470.4	1750	475.0	470.4	470.0	475.0	174 7	174.
Maryland	176.6	176.7	176.6	177.1	176.8	176.1 454.5	175.8 453.3	175.8	173.1 455.2	172.0 450.2	175.0 448.0	174.7 446.8	444.
Massachusetts	451.6	452.9	455.8	456.9	456.3 973.8	981.3	978.8	452.3 972.8		977.7	977.5	978.7	971.
Michigan	970.7 439.3	969.3	970.9 440.7	973.2 438.7	442.4	441.6	442.5	444.8	916.1 442.0	443.1	440.8	441.8	441.
Minnesota	241.2	440.4 241.1	241.8	242.6	241.5	241.8	242.2	240.6	240.2	238.2	239.1	239.4	238
Mississippi	[241.2	241.1	241.0	242.0	241.0	241.0	242.2	240.0	240.2	200.2	209.1	233.4	200.
Missouri	419.8	420.2	426.7	420.0	421.6	421.4	421.7	421.7	410.6	421.8	423.7	420.2	417.
Montana	24.5	24.3	24.4	24.6	24.5	24.7	24.9	24.3	24.1	24.0	24.1	24.1	24.
Vebraska	116.8	117.0	117.7	118.7	118.2	119.8	119.8	119.6	120.5	118.6	118.5	118.1	117.
Nevada	41.2	41.4	41.7	41.9	42.4	42.3	42.5	42.9	42.9	42.8	43.0	43.0	42.
New Hampshire	107.7	108.1	108.8	108.5	108.7	108.2	108.0	106.7	106.1	105.3	104.9	104.9	104.
New Jersey		484.4	486.0	485.5	485.2	483.3	482.0	481.7	477.4	477.1	476.0	473.9	474.
New Mexico	47.3	47.3	46.9	46.3	45.6	45.2	45.1	45.2	44.8	45.3	44.8	44.7	44,
New York	923.3	925.1	923.0	920.3	920.4	918.2	916.9	917.2	901.8	917.6	917.6	916.5	914.
North Carolina	834.7	833.5	833.1	833.7	833.1	831.2	830.8	827.1	823.4	823.8	822.1	819.1	818.
North Dakota	23.7	23.6	24.0	23.9	23.9	23.8	24.1	23.6	23.6	23.8	23.6	23.3	23.
Ohio	1,090.8	1,093.8	1,095.3	1,096.9	1,097.8	1,094.9	1,091.2	1,088.9	1,054.1	1,090.1	1,090.0	1,093.1	1,088.
Oklahoma	183.2	183.7	184.2	184.4	184.4	183.7	185.1	185.3	184.3	185.7	185.5	185.8	186.
Oregon	246.2	246.7	247.0	247.5	247.7	246.7	247.4	246.0	246.8	243.8	241.9	241.3	243.
Pennsylvania	938.6	938.6	943.0	941.6	939.7	938.5	937.3	935.0	937.9	937.9	932.2	928.7	927.
Rhode Island	78.8	80.1	79.4	79.4	79.3	78.8	79.1	78.9	79.5	78.1	78.3	78.2	77.
South Carolina	362.1	362.2	362.2	361.4	362.5	364.2	364.2	364.1	367.5	361.8	364.2	363.3	363.
South Dakota	49.7	49.9	49.0	49.6	49.6	49.2	49.0	48.9	49.7	50.1	50.1	50.2	50.
Tennessee	517.5	517.7	517.8	518.2	518.5	516.4	514.2	514.2	511.1	509.5	507.9	507.4	506.
Texas	1,091.8	1,093.9	1,093.3	1,093.4	1,095.9	1,097.2	1,098.0	1,098.0	1,095.6	1,098.5	1,097.6	1,096.8	1,095
Jtah	134.0	134.0	135.1	135.3	135.4	135.4	135.7	135.0	134.3	134.4	134.5	134.4	134.
Vermont	46.9	47.2	47.3	47.4	47.3	47.9	48.0	48.1	48.1	48.3	48.4	48.2	48.
Virginia	405.3	405.8	406.4	406.6	407.6	407.5	405.7	405.5	404.3	404.8	406.0	404.8	403.
Washington	375.1	376.0	376.5	377.4	377.8	376.9	378.2	379.5	379.8	377.7	375.7	373.1	371.
West Virginia	82.4	82.7	83.0	83.1	82.9	83.1	83.0	82.9	81.8	82.3	82.5	82.5	82.
Wisconsin		617.4	620.8	619.4	620.0	620.1	619.3	621.3	613.8	621.1	617.0	615.0	617.
Nyoming	10.9	10.9	10.9	10.8	11.0	11.0	11.0	11.1	11.0	11.1	11.1	11.0	11.

ESTABLISHMENT DATA STATE EMPLOYMENT SEASONALLY ADJUSTED

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

(in thousands)

State:	199	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
	,				Tra	insportatio	on and pub	olic utilities					
Alabama	90.7	91.0	91.6	91.7	91.8	91.5	91.7	91.3	91.9	92.1	91.7	91.6	91.
Alaska	24.0	24.4	24.4	24.7	24.6	25.0	25.7	25.2	25.3	25.6	25.1	25.0	24.9
Arizona	97.0	97.8	98.2	97.0	97.5	97.7	98.5	98.8	98.9	99.6	100.5	100.3	102.1
Arkansas	66.9	67.2	67.1	67.5	67.7	67.7	68.0	67.8	67.8	68.0	67.7	68.1	68.
California	675.4	675.1	675.6	676.5	679.0	680.1	680.1	680.2	679.7	677.9	681.8	681.0	686.
Colorado	121.8	121.2	122.5	122.5	122.0	122.7	123.3	124.7	126.4	126.7	126.9	126.5	125.
Connecticut	75.3	75.7	75.3	75.8	76.1	76.0	76.7	76.4	76.3	76.3	70.5	76.0	76.
Delaware	15.7	15.8	15.5	15.6	15.6	15.6	15.7	15.6	15.9	16.0		16.1	16.
District of Columbia	17.5	17.5	17.7	17.3	17.2	17.1	17.0	16.8	16.9	16.9	16.7	16.6	16.
Florida	330.9	332.2	335.6	336.2	338.1	336.6	338.9	339.9	340.2	341.7	343.7	343.4	344.
Georgia	235.7	236.4	236.3	237.5	238.4	238.4	238.6	239.7	241.1	241.3	243.0	244.0	244.
lawaii	41.5	41.0	41.1	41.2	40.9	40.2	40.4	40.6	40.5	40.5	40.8	40.5	40.
daho	24.1	24.2	24.7	24.4	25.8	24.4	24.3	24.4	24.3	24.8	24.8	24.7	24.
llinois	340.8	342.0	342.0	341.3	342.1	343.7	345.7	344.5	344.7	345.0	343.3	342.5	344.
ndiana	140.7	141.5	142.3	142.6	142.8	142.9	142.5	140.7	141.1	140.7	140.8	142.1	142.
owa	66.5	66.7	66.9	67.0	67.2	68.1	68.2	68.4	68.8	68.6	68.6	69.2	69.4
(ansas	73.0	72.9	72.9	73.0	73.3	73.5	73.9	74.1	73.6	74.6	74.5	75.2	75.0
Kentucky	98.6	99.4	99.5	99.7	100.0	101.5	101.7	102.4	102.1	103.0	102.7	102.3	101.9
ouisiana	111.8	112.1	111.7	112.5	112.8	113.4	113.8	114.2	114.1	114.2	113.9	114.1	114.
Maine	23.4	23.5	23.5	23.9	23.8	23.8	24.0	24.1	24.1	23.7	24.0	23.9	23.9
Maryland	105.9	106.3	105.3	106.2	105.5	105.4	105.9	106.0	105.5	105.8	106.3	106.7	106.6
Massachusetts	136.0	135.3	136.8	137.5	137.6	138.6	138.4	138.6	138.1	137.2	138.2	137.2	135.9
Michigan	175.1	175.3	175.4	175.0	174.0	174.4	176.3	175.9	175.1	174.6	174.4	175.9	175.9
Minnesota	125.3	126.0	125.9	125.4	125.6	125.6	126.0	126.1	127.1	127.1	114.7	127.0	127.
Mississippi	53.6	53.5	54.1	53.9	53.7	53.9	53.8	53.3	52.9	53.0	52.8	52.8	52.2
Missouri	163.6	164.3	165.9	165.4	165.6	166.4	166.0	165.5	164.8	164.8	164.8	165.1	165.
Montana	21.4	21.3	21.5	21.6	21.5	21.6	21.5	21.3	21.2	21.0	21.1	21.3	21.0
Nebraska	54.4	54.6	54.9	55.0	54.8	55.1	54.9	55.6	56.1	56.2	56.8	56.7	56.8
Nevada	46.7	46.7	46.7	46.9	46.9	47.0	47.3	47.5	47.6	47.6	48.0	48.2	48.2
New Hampshire	19.4	19.4	19.7	19.4	19.3	19.8	19.3	19.0	19.2	19.3	19.2	19.1	19.1
New Jersey	259.4	260.4	260.4	261.9	261.9	262.0	263.0	263.8	263.9	264.3	265.9	264.2	264.
New Mexico	32.6	32.5	32.5	32.5	32.7	33.0	33.3	33.3	33.5	33.4	33.2	33.6	33.6
New York	410.6	410.7	411.7	410.6	411.1	409.8	409.8	410.2	409.5	409.7	411.9	412.8	412.3
North Carolina	171.0	170.9	171.0	171.3	170.7	169.8	169.2	169.8	170.5	171.3	170.6	170.5	171.3
North Dakota	18.0	18.0	18.3	18.2	18.3	18.4	18.6	18.5	18.5	18.3	18.0	18.2	18.1
Ohio	233.8	233.3	235.4	235.4	235.2	234.9	234.9	234.4	233.4	234.1	234.0	234.8	234.
Oklahoma	80.7	80.9	80.7	81.1	81.6	81.7	82.3	82.4	82.9	83.3	83.0	83.5	83.4
Oregon	74.6	74.4	74.5	74.6	74.7	75.6	75.7	75.5	75.3	75.0	76.0	75.6	75.
Pennsylvania	278.4	278.2	281.0	280.8	280.4	281.5	280.7	280.3	281.5	280.6	282.7	281.7	281.2
Rhode Island	15.7	15.9	15.4	15.9	16.0	15.8	15.8	15.8	15.9	15.9	16.0	15.7	15.9
South Carolina	76.5	76.9	75.8	76.3	77.2	77.5	77.3	77.3	78.8	77.9	78.8	79.3	79.7
South Dakota	15.9	15.8	16.1	16.0	15.9	16.1	16.1	15.8	15.8	16.1	16.3	16.3	16.3
Tennessee	150.4	150.1	153.1	153.0	152.4	153.3	152.6	151.9	152.4	151.6	152.2	152.0	152.2
Texas	524.7 57.3	526.0 57.7	527.8 57.4	531.2 57.5	532.4 57.8	538.0 58.2	540.1 58.1	540.7 58.1	541.5 58.3	546.5 58.2	547.4 58.3	548.2 58.2	548.7 58.2
]		
Vermont	12.3 170.7	12.3 171.3	12.4 170.9	12.5 171.6	12.5 172.0	12.6 173.1	12.4 172.3	12.4 172.0	12.3 172.5	12.2 172.7	12.3 173.2	12.2 174.1	12.3 174.4
Washington	133.9	133.9	135.6	136.3	136.7	136.9	137.5	137.0	137.3	138.6	138.9	138.9	139.0
West Virginia	39.2	38.8	39.2	38.7	38.5	38.6	38.6	38.7	38.8	38.5	39.5	39.4	39.
Wisconsin	123.0	122.5	124.0	124.4	123.8	124.1	123.6	124.1	123.9	124.2	124.3	124.1	123
Wyoming	14.0	13.9	13.7	13.8	13.9	13.9	14.0	13.9	13.9	13.9	14.0	13.9	14.
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B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted — Continued

(In thousands)

2 : :	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
					r		Trade				r		
Nabama	429.2	429.4	430.3	431.4	432.9	432.2	434.5	435.5	435.9	435.0	434.8	436.5	437
laska		55.4	55.9	56.4	56.9	56.6	57.2	57.5	57.1	56.9	56.8	56.0	56
	22.5	491.3	496.7	497.6	499.0	498.8	500.0	500.4	496.5	499.6	503.1	504.6	505
vizona					254.4	255.1	256.3	256.5	256.3	256.4	256.2	255.4	256
rkansas		252.7	251.6	251.2									
alifornia	3,100.1	3,106.6	3,091.3	3,107.1	3,114.7	3,117.4	3,129.0	3,129.1	3,132.3	3,134.4	3,139.3	3,146.6	3,100
olorado	486.6	486.5	489.5	490.7	491.9	492.2	496.3	499.7	501.5	503.4	504.6	505.7	506
Connecticut		362.3	360.2	359.9	359.0	357.9	358.8	358.4	359.1	360.0	359.2	359.6	362
elaware		86.1	86.7	87.7	87.7	87.2	87.3	86.4	86.9	86.9	88.1	88.5	88
District of Columbia		48.8	48.6	48.2	48.7	48.1	48.1	48.3	48.7	48.6	48.9	48.3	48
lorida		1.680.9	1,678.4	1,681.8	1.687.8	1,686.9	1,690.5		1,698.6	1,704.4	1,711.4	1,717.0	1,723
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	1,55		i i						,	
Georgia		932.4	931.9	936.9	936.5	936.8	941.9	937.0	934.0	929.8	935.8	939.4	945
lawaii		134.4	133.8	133.7	133.3	132.5	132.6	131.9	130.6	131.4	132.1	132.4	131
daho	129.4	129.7	129.6	130.1	129.2	130.1.	131.1	131.2	130.6	130.5	130.5	130.6	132
linois		1,336.8	1,339.7	1,335.1	1,337.3	1,340.0	1,343.3	1,344.4	1,338.0	1,337.1	1,339.0	1,339.3	1,34
ndiana		681.9	676.9	682.5	683.8	684.6	684.7	684.3	687.7	684.9	684.8	684.8	682
	{	<u>, </u>		0.10.5	0.0	0.00	050 -	050.0	040.0	240.0	250 4	250 4	25.
owa		347.7	347.8	348.0	348.5	349.5	350.2	350.0	349.9	349.6	350.1	352.1	35
ansas		314.4	314.7	316.1	316.4	317.3	318.6	318.6	319.8	321.3	321.3	322.2	322
entucky	414.4	416.1	416.2	416.4	415.6	417.4	419.0	417.2	416.7	419.8	418.8	418.2	421
ouisiana		436.2	434.7	436.8	436.7	436.0	438.1	437.3	437.6	437.5	436.9	437.2	437
laine		142.4	140.4	139.9	140.8	141.0	140.6	141.2	141.6	142.1	142.6	143.7	144
							1						
laryland		539.1	543.2	541.0	541.6	538.9	539.4	539.2	539.5	536.7	536.9	539.4	540
lassachusetts		723.6	727.4	729.4	729.2	728.6	732.1	729.1	731.5	732.0	731.1	728.9	731
flichigan	1,047.9	1,050.9	1,050.2	1,056.0	1,055.3	1,059.1	1,066.6	1,061.8	1,059.4	1,064.0	1,069.9	1,071.5	1,075
finnesota	607.0	608.6	605.1	605.5	606.2	604.1	608.0	610.5	615.8	614.0	613.3	615.6	618
fississippi		237.8	238.7	238.6	238.1	239.9	239.6	238.5	240.5	238.1	238.0	239.6	238
4. ,	625.4	626.4	625.4	626.5	628.4	631.5	632.8	632.7	633.8	633.9	637.0	636.9	636
lissouri								99.0			100.1	99.9	100
Montana		99.4	98.8	99.4	99.4	99.2	99.7		98.9	99.4			
Vebraska		211.7	214.5	214.2	213.2	214.8	214.3	214.7	214.9	214.8	214.9	215.1	215
vevada	182.4	183.1	183.1	184.3	185.9	186.2	186.6	186.7	187.7	187.6	188.9	189.9	191
lew Hampshire		150.2	149.8	149.3	148.8	149.5	149.7	150.5	150.9	150.6	149.5	151.3	150
	077.0	880.1	879.5	885.9	886.6	884.3	890.7	891.1	891.3	891.4	892.0	894.1	895
lew Jersey										171.9		173.3	173
lew Mexico		169.1	168.7	169.2	169.9	169.7	170.8	171.0	171.9		173.7		
lew York		1,655.5	1,654.3	1,650.1	1,654.3	1,657.3	1,660.4	1,662.6	1,665.4	1,666.3	1,671.8	1,672.8	1,677
lorth Carolina		840.5	841.8	846.6	847.2	847.1	845.9	845.9	850.0	849.7	850.8	855.7	859
łorth Dakota		82.0	81.3	81.9	81.5	80.9	80.8	80.6	81.0	80.6	80.8	81.4	80
NL:_	1,318.5	1,321.3	1,317.1	1,317.6	1 318.1	1,316.5	1,318.7	1,320.5	1,318.9	1,320.9	1,320.9	1,322.7	1.32
Ohio				327.0	327.9	328.3	328.3	327.7	327.5	328.7	330.0	331.6	332
kiahoma		327.3	326.4									389.3	390
)regon		384.8	383.0	384.5	387.0	386.5	388.1	387.0	388.4	385.2	386.3		
ennsylvania		1,228.0	1,216.7	1,221.3	1,224.1	1,227.9	1,230.4	1,229.9	1,237.1	1,236.7	1,236.7	1,235.6	1,234
thode Island	98.7	98.6	98.5	99.2	99.0	98.6	99.1	98.8	98.4	98.7	99.1	98.6	99
auth Carolina	426.5	427.6	430.0	431.0	433.2	436.2	437.7	439.8	440.8	441.8	443.2	443.9	449
South Carolina		427.6 88.1	430.0 87.2	431.0 87.5	433.2 87.3	436.2 87.9	89.3	439.5 89.5	89.3	89.4	89.9	89.6	89
outh Dakota													
ennessee		618.4	618.1	619.5	620.1	624.6	621.5	617.6	618.1	617.6	619.4	621.0	622
exas		2,081.5	2,084.5	2,086.0	2,091.1	2,092.0	2,097.2		2,097.5 243.1	2,102.2	2,108.1 244.4	2,113.1. 244.6	2,117
itah	241.2	242.7	242.7	243.9	245.0	244.2	244.6	242.9	243.1	243.3	244.4	244.0	243
ermont	65.1	65.3	64.8	65.0	65.4	65.2	65.5	65.9	65.8	65.6	65.9	65.7	66
irginia		734.4	730.9	735.3	737.5	735.4	736.6	739.5	740.6	742.2	741.5	743.5	744
Vashington		612.8	615.4	618.1	621.3	621.4	625.6	626.6	628.5	631.0	631.9	633.5	635
Vest Virginia		164.5	163.4	163.6	164.7	163.9	163.1	163.3	162.6	162.7	163.9	166.2	16
		609.5	608.6	611.7	613.4	613.0	615.3	614.5	616.0	618.9	617.4	618.8	620
Visconsin						52.4		52.5	52.9	53.0	52.4	52.9	52
Vyoming	52.3	52.3	52.5	51.9	52.3	5∠.4	52.3	32.5	JZ.9	J 55.U	02.4	JZ.9	. 5

ESTABLISHMENT DATA STATE EMPLOYMENT SEASONALLY ADJUSTED

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

(In thousands)

04-1	19:	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
					Fina	ince, insur	ance, and	real estat	θ				
Alabama	84.9	85.1	85.1	85.3	85.6	85.8	86.2	86.4	86.5	87.0	86.8	87.4	87.0
Alaska	12.2	12.2	12.1	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.6	12.5	12.4
Arizona	130.0	130.3	130.5	131.4	132.4	132.9	133.4	134.7	135.1	135.4	135.2	135.8	136.2
Arkansas	44.4	44.5	44.3	44.4	44.8	44.8	44.8	44.7	44.5	44.0	44.1	44.1	44.
California	764.7	765.1	765.8	769.9	772.7	776.1	780.0	782.2	786.0	786.3	788.2	789.1	788.4
Colorado	129.5	130.0	130.0	130.9	131.2	130.7	131.5	132.5	133.6	134.3	134.0	134.0	133.
Connecticut	132.8	133.6	133.7	133.8	134.7	134.5	135.5	135.6	135.8	135.9	135.6	135.8	136.2
Delaware	48.2	48.6	48.4	48.6	48.9	49.5	49.7	49.3	49.4	49.7	49.8	50.0	49.9
District of Columbia	28.3	28.4	28.9	28.4	28.5	28.4	28.4	28.5	28.9	28.6	28.9	28.9	28.
Florida	419.3	419.2	418.8	419.9	422.8	424.5	426.3	427.4	427.0	428.4	429.5	431.5	433.2
Georgia	190.8	191.7	191.8	192.8	193.8	194.5	195.1	195.3	196.1	197.3	197.2	197.6	198.2
Hawaii	35.8	35.7	35.6	35.3	35.3	35.3	35.1	34.9	35.2	35.0	34.9	35.1	34.8
ldaho	25.6	25.6	25.7	26.0	26.2	26.5	26.6	26.7	26.9	26.9	26.6	27.0	26.
Minois	404.3	405.2	406.3	406.5	406.8	407.9	409.2	410.4	412.4	412.3	412.6	413.4	413.4
Indiana	140.1	140.4	140.2	140.0	140.2	140.6	140.8	140.6	141.4	142.1	142.5	143.4	143.5
lowa	80.7	80.9	81.3	81.0	81.1	81.3	81.8	81.9	82.0	82.1	82.3	82.7	82.6
Kansas	60.8	60.9	60.8	61,1	61.0	61.4	61.2	61.2	61.1	61.3	60.6	60.7	60.9
Kentucky	70.4	70.6	70.5	70.7	70.8	71.1	71.2	71.0	71.1	71.1	71.0	71.1	71.0
Louisiana	86.5	86.8	86.5	86.6	86.8	86.5	86.6	87.1	86.6	86.6	86.2	86.2	86.6
Maine	29.0	29.2	29.4	29.7	30.2	30.2	30.4	30.1	30.6	30.8	30.8	31.2	31.2
Maryland	130.9	131.3	131.5	131.8	131.1	131.9	132.3	132.8	132.8	133.1	133.2	133.3	133.5
Massachusetts	215.2	215.7	215.9	216.1	216.5	216.3	216.7	217.4	218.0	218.0	218.7	219.2	220.2
Michigan	206.6	207.1	207.9	208.9	209.4	209.7	209.0	207.9	207.8	206.9	207.5	207.6	208.1
Minnesota	148.5	149.1	149.2	149.8	149.9	150.9	151.3	151.4	152.2	152.8	153.0	153.5	154.1
Mississippi	41.1	41.1	41.2	41.5	41.3	41.5	41.5	41.5	41.5	41.7	41.5	42.0	42.2
Missouri	154.8	155.5	155.8	156.0	156.7	156.8	157.7	158.2	159.7	159.8	159.6	159.9	160.2
Montana	16.6	16.6	16.7	16.8	16.7	16.9	16.8	16.6	16.8	16.9	16.8	17.0	17.1
Nebraska	55.4	55.9	55.8	56,4	56.5	56.9	57.1	57.5	57.8	57.5	57.7	57.9	58.4
Nevada	41.1	41.2	41.4	41.5	41.7	41.8	42.2	42.6	42.9	42.9	43.4	43.8	43.9
New Hampshire	29.4	29.2	29.3	29.3	29.4	29.8	29.5	29.2	29.3	29.6	30.2	29.7	29.9
New Jersey	240.9	242.2	243.3	244.1	244.0	244.6	244.2	244.0	244.9	244.9	244.4	245.5	246.4
New Mexico	31.3	31.4	31.5	31.5	31.6	31.5	31.5	31.6	31.7	31.8	31.9	31.9	32.1
New York	721.5	722.1	721.3	724.1	725.8	726.3	727.6	728.7	730.3	731.8	732.4	733.1	734.0
North Carolina	168.9	169.3	170.6	172.5	173.4	173.0	174.2	174.8	175.6	177.4	178.5	178.6	178.7
North Dakota	15.0	15.2	15.3	15.4	15.3	15.4	15.4	15.5	15.7	15.7	15.6	15.7	15.9
Ohio	288.7	288.9	290.0	289.8	290.5	291.9	292.1	292.0	292.6	293.2	293.4	294.2	294.4
Okiahoma	70.2	70.2	70.3	70.5	70.7	70.9	71.1	71.0	71.3	70.8	71.0	71.3	71.5
Oregon	96.1	96.0	96.4	96.0	96.7	96.5	97.0	97.4	97.3	97.4	98.1	97.7	97.6
Pennsylvania	315.3	317.6	317.5	318.5	318.5	319.3	320.2	320.6	321.4	321.4	321.5	321.4	321.5
Rhode Island	26.7	26.6	26.9	27.0	26.8	27.0	27.2	27.7	27.7	27.9	27.9	28.1	28.5
South Carolina	75.3	75.8	76.0	76.6	76.9	77.6	78.1	78.5	79.0	79.1	79.3	79.4	79.9
South Dakota	21.6	21.7	21.7	21.6	21.6	21.7	22.0	22.3	22.2	22.5	22.7	22.9	23.1
Tennessee	121.7	121.7	123.4	123.5	123.2	122.7	122.8	122.8	122.9	122.9	122.8	122.9	123.2
Texas	469.7	471.2	473.5	475.6	477.4	478.5	479.8	481.8	482.8	484.0	484.7	486.0	486.1
Utah	54.0	53.9	53.7	53.8	53.7	53.7	53.5	54.1	54.4	54.4	54.4	54.2	54.3
Vermont	12.3	12.2	12.2	12.1	12.1	12.2	12.3	12.2	12.3	12.3	12.3	12.2	12.4
Virginia	169.1	169.5	170.6	170.7	170.7	170.6	171.1	170.9	172.5	172.5	172.9	173.8	173.7
Washington	130.4	131.0	131.5	132.0	132.5	133.7	134.5	134.4	135.6	136.4	136.3	136.5	136.6
West Virginia	28.5	28.6	28.4	28.3	28.4	28.4	28.2	28.1	28.5	28.6		28.9	29.0
Wisconsin	141.8	141.9	141.8	142.2	142.3	142.6	143.0	144.2	145.0	145.3	145.2	145.6	146.4
Wyoming	8.2	8.2	8.2	8.3	8.3	8.3	8.2	8.2	8.4	8.4	8.5	8.4	8.8

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

(In thousands)

-	19	97	1998											
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P	
	Services													
Nabama		434.3	435.1	435.6	438.0	437.8	438.4	439.6	439.7	440.4	439.1	440.3	441.	
laska		66.0	66.5	67.0	67.1	67.4	67.8	67.4	67.9	67.9	67.9	68.3	68.	
rizona	612.5	616.3	617.3	619.9	621.1	624.3	630.9	633.0	632.6	636.1	638.5	639.4	642.	
Arkansas	257.3	257.7	257.2	259.6	260.9	263.0	263.2	262.4	260.8	263.2	263.8	263.9	264.	
California	4,124.2	4,142.0	4,154.9	4,168.6	4,180.9	4,198.7	4,217.7	4,226.9	4,241.8	4,256.4	4,268.6	4,280.3	4,295	
Colorado	610.4	610.8	609.5	607.4	609.8	609.0	617.0	620.6	620.4	621.0	622.9	623.7	621	
Connecticut		508.7	506.6	506.9	505.4	509.3	509.0	512.9	511,1	514.7	512.3	515.7	518	
Pelaware		109.9	110.2	110.7	111.0	110.9	111.9	112.2	112.1	112.4	112.7	113.3	114	
District of Columbia		265.6	266.3	266.0	267.5	265.7	266.2	268.7	269.2	268.1	270.3	271.5	271	
lorida		2,330.5	2,337.5	2,347.9	2,363.5	2,370.1	2,389.7	2,403.3	2,417.7	2,428.0			2,442	
				204 5		000.4	202.0	0000	987.8	992.4	992.4	996.3	1,007	
Beorgia		973.2	972.3	981.5	982.8	983.4 170.3	983.3 169.5	986.9 169.4	168.3	169.6	168.8	169.8	1,007	
ławaii		169.5	168.4	169.1	169.7		121.4	121.7	124.1	125.0	124.3	126.2	126	
daho		123.9	121.8	121.4	121.5	121.2					1.748.8	1,751.2	1.75	
linois		1,714.0	1,713.4	1,716.7	1,717.1	1,722.6	1,732.7	1,740.0	1,749.0	.,,				
ndiana	696.7	700.7	691.3	692.1	693.1	699.4	702.9	697.5	696.5	697.1	697.1	699.8	69	
owa		369.9	371.6	373.0	373.9	376.6	377.0	378.5	381.5	379.1	378.0	380.7	38	
(ansas	324.1	325.0	324.9	325.8	326.9	329.5	329.1	330.3	331.0	330.2	330.2	330.5	333	
(entucky	431.7	433.3	432.0	432.3	434.5	437.5	441.5	442.8	442.6	445.4	444.0	444.7	445	
ouisiana		506.0	507.4	507.7	511.0	511.6	512.6	515.2	515.5	510.2	512.2	511.8	512	
faine		160.7	160,6	161.6	162.0	162.4	163.2	163.0	164.3	164.7	165.3	166.3	166	
faryland	762.7	764.0	763.1	764.5	763.7	762.3	763.4	763.2	769.4	772.5	773.4	780.9	785	
Massachusetts		1,126.1	1,119.3	1,126.2	1,133,6	1,140.3	1,148.0	1,147.1	1,151.5	1.152.5	1.153.1	1.157.8	1,160	
Aichigan		1,243.2	1 244.1	1,243.7	1,246.3	1,247.9	1,259.8	1,260.8	1,260.0	1,268.1	1,270.5	1,278.5	1,279	
Minnesota		710.5	708.1	714.6	716.3	718.2	724.9	729.3	730.3	728.9	730.6	730.6	732	
fississippi		261.3	262.7	263.7	263.7	263.8	265.3	264.9	264.6	265.1	262.5	262.7	263	
	1	7.0.5	740.0	747.0	740.7	742.1	749.0	744.4	745.9	745.2	745.0	747.5	750	
fissouri		746.5	746.2	747.0	740.7			744.1			745.6	107.1	107	
Montana		106.6	106.1	107.1	107.0	107.1	107.5 236.4	107.8	107.5 237.4	107.7 237.2	107.2 235.8	236.8	237	
lebraska		233.3	234.3	236.8	235.6 390.0	236.1 392.2	392.3	236.4 393.1	394.0	395.5		406.2	400	
levada		387.2	386.5	389.6					166.7	165.3	164.0	165.4	165	
lew Hampshire	166.0	165.7	165.2	165.3	164.0	164.2	165.7	167.4	100./	165.3	164.0	160.4	10:	
lew Jersey		1,195.1	1,194.6	1,198.2	1,203.7	1,206.3	1,212.5	1,217.7	1,218.6	1,222.3	1,225.4	1,227.7	1,232	
New Mexico		197.2	196.8	197.7	197.7	197.7	198.5	199.8	199.7	200.9	203.1	203.9	204	
lew York		2,736.5	2,734.3	2,750.1	2,759.4	2,769.0	2,774.6	2,777.9	2,785.2	2,795.6	2,798.6	2,811.1	2,819	
lorth Carolina		899.5	899.8	904.2	905.4	909.5	916.3	916.7	910.0	908.6	915.9	918.1	919	
lorth Dakota	87.5	87.8	88.4	89.1	89.0	89.1	89.4	89.1	89.2	89.1	89.2	88.8	80	
Ohio	1,485.0	1,484.7	1,497.6	1,494.3	1,500.5	1,501.6	1,510.4	1,511.6	1,514.6	1,516.8	1,516.9	1,523.9	1,528	
Oklahoma		383.0	382.9	385.2	386.2	389.7	394.2	393.1	393.0	395.9	396.1	396.9	400	
)regon		408.7	412.0	412.9	412.7	414.7	413.9	415.6	417.2	420.1	421.0	421.5	424	
ennsylvania		1,732.9	1,739.0	1,733.9	1,732.6	1,733.4	1,733.4	1,738.1	1,741.3	1,742.7	1,750.1	1,751.2	1,75	
Rhode Island		152.1	151.9	151.7	151.6	152.2	152.6	151.4	151.5	151.7	153.1	153.7	153	
South Carolina	400.2	401.4	409.3	410.9	413.0	415.4	416.3	417.9	418.7	421.1	421.3	421.7	424	
South Dakota		92.5	92.9	94.4	94.5	95.0	95.6	94.4	95.2	95.2	94.5	95.5	95	
Fennessee		691.1	699.0	698.7	700.4	696.6	700.0	698.7	701.2	703.0		703.6	706	
Fexas		2,457.1	2,448.9	2,473.4	2,479.6	2,492.8	2,498.8	2,506.9	2,510,4	2,521.7	2,524.7	2.533.1	2.541	
Jtah		2,457.1	2,446.9	2,473.4	279.1	278.7	279.5	279.8	277.7	280.1	281.7	283.6	283	
	i :	04.7	02.0	04.0	84.4	84.8	85.9	95.	85.7	86.7	0.5	85.3	85	
Vermont		84.7 999.2	83.9 1,004.5	84.2 1,007.8	1,014.7	1,018.1	1.024.6	85.9 1,028.3	1,034.1	1,035.7	85.7 1,034.1	1,033.3	1.036	
/irginia			689.5	695.6	698.8	704.6	709.5	710.2	712.8	716.9	715.0	719.5	721	
Vashington		689.4					203.5	204.4	205.6				208	
West Virginia		202.5	202.5	203.4	203.7	202.7 696.0	700.9			205.3 704.8	206.6	208.7		
Wisconsin		692.3	693.5	691.0	693.6			703.0	702.4		704.1	704.1	705	
Nyoming	48.9	49.0	48.8	48.5	48.8	48.7	49.6	48.8	49.2	49.4	49.4	49.7	50	

ESTABLISHMENT DATA STATE EMPLOYMENT SEASONALLY ADJUSTED

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

(In thousands)

	1997 1998												
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
	Government												
Alabama	347.1	347.3	346.7	346.2	346.3	345.2	344.9	346.3	344.9	346.9	350.1	349.7	349.1
Alaska	73.3	73.5	73.1	73.3	73.2	73.6	73.4	73.1	73.6	72.7	73.1	73.6	73.8
Arizona	327.3	327.5	325.4	329.5	332.6	332.3	333.5	341.2	333.9	335.5	346.3	341.2	349.2
Arkansas	183.5	183.9	183.7	184.0	184.7	185.3	185.1	185.5	189.9	190.9	186.4	187.3	188.0
	2,163.6	2,160.5	2,157.5	2,161.0	2,170.2	2,175.6	2,180.2	2,186.0	2,173.3	2,186.2	2,191.8	2,203.3	2,206.9
Colorado Connecticut Delaware District of Columbia Florida	316.2 225.6 53.6 229.3 949.3	317.0 226.3 53.8 228.6 950.5	318.2 225.8 53.9 230.0 956.9	317.8 227.0 53.8 227.9 953.2	318.0 226.8 53.7 227.2 951.3	318.3 226.2 54.1 228.8 949.1	320.7 225.3 54.8 229.1 954.2	318.9 226.0 54.6 226.7 954.6	55.2 219.5	319.9 225.5 54.4 228.1 956.2	323.0 226.3 54.8 226.0 961.6	322.9 226.1 54.3 225.0 968.4	324.6 225.4 54.3 225.2 972.6
Georgia	581.1	582.9	584.0	586.2	587.1	588.0	590.8	588.9	590.0	595.3	602.1	594.8	593.8
	112.1	111.6	111.3	110.8	111.3	111.4	112.0	111.1	111.1	112.9	117.5	113.1	112.4
	99.6	99.4	101.1	101.4	102.1	102.1	101.4	101.5	102.4	102.8	102.6	103.5	102.7
	806.2	804.1	803.8	801.2	803.4	804.1	802.4	806.8	813.2	813.5	806.5	809.1	806.7
Illinois	386.1	390.4	395.2	391.0	389.9	391.4	396.1	395.8	379.7	386.8	394.8	389.4	387.0
lowa Kansas Kentucky Louisiana Maine	233.4	234.6	236.8	237.8	237.5	238.6	238.0	237.4	239.5	238.2	240.1	239.6	237.0
	235.2	237.8	239.4	239.0	239.7	236.8	241.2	239.3	240.5	234.7	240.7	241.3	239.9
	291.0	291.1	294.1	292.5	294.3	293.1	291.1	294.1	293.4	295.9	296.0	295.5	295.2
	366.5	365.2	365.4	367.7	367.0	367.4	367.9	369.3	365.5	365.8	369.7	370.6	370.2
	92.8	93.0	91.6	93.0	92.5	92.1	91.4	92.6	92.3	92.4	92.5	92.1	91.9
Maryland Massachusetts Michigan Minnesota Mississippi	416.0	414.8	420.4	420.4	419.8	420.3	419.5	422.4	421.9	423.6	435.5	434.1	435.9
	407.3	409.0	408.5	409.3	407.7	408.8	409.8	411.8	407.7	408.7	412.4	412.8	413.6
	643.9	650.0	654.7	655.1	652.3	655.5	655.5	665.3	661.3	657.3	662.1	657.4	657.2
	380.1	379.9	379.7	381.1	382.6	380.2	380.9	382.0	380.4	385.8	386.2	387.0	384.5
	220.3	220.3	220.2	221.7	220.7	221.3	222.2	223.1	227.9	225.4	225.1	226.7	226.6
Missouri Montana Nebraska Nevada New Hampshire	414.1	416.4	416.4	418.3	415.3	416.5	419.1	427.9	419.1	419.1	423.7	424.3	424.0
	77.3	77.9	77.0	77.0	77.6	77.8	79.0	76.3	78.9	77.7	78.2	78.3	78.7
	153.9	154.0	152.8	153.6	152.7	153.3	152.0	151.2	152.2	150.4	153.2	153.3	152.2
	108.0	109.2	108.4	109.5	109.3	110.5	109.5	111.6	112.4	113.7	114.6	113.9	112.8
	78.4	75.6	77.8	78.4	77.9	79.5	79.1	78.7	80.9	78.0	79.2	79.2	79.1
New Jersey New Mexico New York North Carolina North Dakota	570.0	570.5	570.0	569.6	568.4	566.6	567.2	565.9	561.8	564.8	570.9	570.5	569.5
	178.2	178.6	178.7	178.3	179.1	177.6	177.4	179.4	180.1	180.5	177.5	177.9	178.1
	1,374.7	1,373.3	1,368.3	1,370.6	1,371.4	1,368.0	1,372.8	1,369.6	1,361.2	1,361.4	1,369.5	1,373.1	1,370.0
	589.0	589.0	587.5	593.0	592.3	594.5	595.2	590.7	584.7	631.5	601.0	602.3	602.8
	70.4	70.5	70.9	71.1	70.9	70.9	70.7	72.4	71.8	70.0	71.3	70.5	70.7
Ohio Oklahoma Oregon Pennsylvania Rhode Island	761.4 277.6 248.9 712.7 63.8	760.9 277.3 253.9 713.8 64.8	763.4 277.6 254.7 717.8 65.1	760.6 278.7 255.6 712.2 65.3	761.7 280.4 256.3 711.2 64.7	762.7 280.1 256.3 712.6 65.8	766.3 282.0 257.7 712.4 66.2	765.0 279.3 258.2 697.2 65.8	255.7 704.0	768.0 281.4 257.6 699.9 64.2	773.5 285.9 259.9 728.3 63.9	769.8 283.1 261.2 721.1 63.6	768.1 284.2 261.1 725.1 64.2
South Carolina South Dakota Tennessee Texas Utah	290.9	300.0	303.4	303.7	304.2	304.1	303.9	314.9	298.8	303.3	304.5	305.4	305.7
	70.1	70.1	69.9	69.8	70.7	70.5	70.7	70.1	70.3	70.0	70.2	69.9	71.1
	383.9	383.6	385.6	385.6	385.4	385.1	385.0	394.5	389.8	385.8	397.4	400.7	399.7
	1,495.8	1,496.7	1,490.8	1,495.1	1,502.0	1,507.7	1,507.2	1,500.3	1,505.5	1,507.0	1,524.6	1,525.9	1,527.2
	174.3	174.8	175.0	175.7	177.5	178.2	178.1	178.1	177.9	177.7	179.5	179.7	180.0
Vermont Virginia Washington West Virginia Wisconsin Wyoming	45.4	45.7	45.4	45.6	45.4	45.4	44.8	45.5	44.5	45.3	45.5	45.7	45.7
	598.6	598.5	595.7	596.7	597.2	597.8	597.9	599.7	600.2	600.8	604.5	603.9	603.2
	456.3	460.3	456.3	457.5	457.0	459.5	457.7	460.3	465.5	467.7	460.1	462.4	460.9
	140.9	140.8	139.3	140.2	139.9	139.8	150.8	138.5	137.7	141.8	142.6	141.4	141.7
	387.7	388.7	390.0	391.3	390.0	392.5	391.8	391.1	392.5	394.0	393.1	391.7	393.1
	56.9	57.1	56.9	57.0	57.3	57.5	57.8	57.4	59.5	59.7	57.9	57.1	57.6

Includes mining, not shown separately.
 Mining is combined with construction.
 P = preliminary.

NOTE: All data have been adjusted to March 1997 benchmarks and incorporate updated seasonal adjustment factors.

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

	1997 1998												
industry		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P	Dec.P
Post A returner		34.8	34.7	34.6	34.5	34.7	34.6	34.6	34.6	34.4	34.6	34.5	34.6
Total private	34.7	34.6	34.7	34.0	34.5	34.7	34.0	34.0	34.0	34.4	04.0	04.5	04.0
Goods-producing	41.4	41.6	41.4	41.0	40.8	41.1	41.0	41.1	41.1	40.8	41.1	40.9	41.2
Mining	44.9	45.4	44.4	43.8	44.1	44.6	43.8	44.8	43.8	43.2	43.8	43.5	43.2
Construction	39.0	39.8	39.2	38.5	38.7	38.6	38.4	39.2	39.1	38.4	39.1	38.8	39.7
Manufacturing	42.2 4.9	42.1 4.9	42.0 4.8	41.8 4.8	41.4 4.5	41.8 4.6	41.8 4.6	41.7 4.6	41.7 4.6	41.6 4.5	41.7 4.5	41.6 4.5	41.8 4.5
Durable goods	43.0	42.8	42.8	42.5	41.9	42.4	42.3	42.2	42.3	42.2	42.3	42.2	42.3
Overtime hours		5.2	5.1	5.0	4.6	4.8	4.8	4.8	4.8	4.7	4.6	4.6	4.6
Lumber and wood products		41.2	41.1	41.2	41.2	41.2	41.3	41.2 40.7	41.2 40.7	40.6 40.1	41.1 40.4	41.2	41.7 40.3
Furniture and fixtures		41.0 43.7	41.0 43.6	40.7 43.2	40.7 43.3	40.7 43.5	41.0 43.2	43.5	43.6	43.3	43.4	43.4	43.8
Stone, clay, and glass products Primary metal industries		45.2	44.8	44.6	43.9	44.5	44.4	43.6	44.1	43.7	43.7	43.8	43.8
Blast furnaces and basic steel products		46.0	45.4	45.3	44.9	45.6	45.1	43.8	44.5	44.2	43.9	43.1	43.6
Fabricated metal products		42.7	42.7	42.4	41.8	42.6	42.5	42.4	42.3	42.3	42.3	42.1	42.4
Industrial machinery and equipment	43.7	43.6	43.4	43.3	42.6	43.0	43.2	43.0	43.1	42.7	42.7	42.3	41.9
Electronic and other electrical equipment		41.8	41.9	41.4	41.1	41.4	41.4	41.3	41.7	41.5	41.5	41.4	41.1
Transportation equipment		43.9	43.8	43.4	42.1	43.3	42.7	42.6	42.6	43.7	43.7	43.9	44.7
Motor vehicles and equipment	44.9	43.9	43.8	43.5	42.0	43.3	42.4	41.7	42.3	44.3	43.8	44.4	45.6
Instruments and related products	41.9	41.9	42.0	41.5	41.3	41.4	41.3	41.3	41.4	41.0	41.1	41.0	41.0
Miscellaneous manfacturing	40.6	40.4	40.4	40.5	40.1	40.0	40.0	40.0	40.1	39.6	39.7	39.4	39.5
Nondurable goods	41.0	41.1	40.9	40.8	40.7	41.0	40.9	41.0	40.9	40.8	40.9	40.8	40.9
Overtime hours	4.4	4.4	4.4	4.4	4.2	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3
Food and kindred products		41.8	41.5	41.5	41.3	41.8	41.7	42.0	41.5	41.7	41.5	41.7	42.2
Tobacco products	38.8	38.3	38.5	37.7	38.2	39.3	39.0	40.6	39.6	37.7	38.5	38.1	36.7
Textile mill products		41.8	41.5	41.2	41.0	41.3	41.1	41.0	41.0	40.4	41.1	40.8 37.3	40.8 37.3
Apparel and other textile products		37.4	37.4	37.2	37.7	37.4	37.4 43.6	37.4 43.5	37.5 43.3	37.3 43.6	37.3 43.5	43.5	43.3
Paper and allied products		43.6	43.4 38.5	43.4 38.4	43.0 38.2	43.5 38.4	38.2	38.4	38.5	38.1	38.2	38.1	38.1
Printing and publishing		38.5 43.5	43.4	43.4	43.1	43.1	43.2	43.0	43.3	43.2	43.3	43.0	42.6
Chemicals and allied products Petroleum and coal products		(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products		42.0	41.8	41.5	41.7	42.1	42.0	42.1	41.6	41.7	41.8	41.6	41.9
Leather and leather products		38.3	38.8	37.9	37.3	37.3	37.6	37.0	38.1	37.4	37.4	37.5	37.8
Service-producing	32.9	33.0	33.0	32.8	32.9	33.0	32.9	32.9	32.9	32.8	32.9	32.9	32.9
Transportation and public utilities	39.9	40.0	39.9	39.8	39.6	39.8	39.5	39.6	39.3	39.3	39.3	39.3	39.0
Wholesale trade	38.3	38.5	38.5	38.3	38.3	38.5	38.2	38.3	38.4	38.2	38.3	38.5	38.5
Retail trade	28.9	29.0	29.0	28.9	29.0	29.1	29.0	29.1	29.0	29.0	29.1	29.0	28.9
Finance, insurance, and real estate	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Services	32.7	32.8	32.7	32.6	32.6	32.7	32.7	32.7	32.7	32.5	32.7	32.6	32.8

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.
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 1997 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 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)

	1997						19	98					
Industry	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P	Dec.P
Total naivata	143.6	144.6	144.4	143.8	144.0	144.9	144.8	145.2	145.3	144.9	145.8	145.7	146.5
Total private	143.6	144.6	144.4	143.0	144.0	144.9	144.0	143.2	145.5	144.5	145.6	145.7	140.3
Goods-producing	116.0	117.1	116.4	115.1	114.9	115.3	114.9	114.2	114.7	114.1	114.6	114.0	115.6
Mining	57.5	58.3	57.0	55.6	55.4	56.0	54.7	55.5	54.0	53.1	53.5	52.6	52.1
Construction	159.3	165.0	162.4	158.7	161.5	160.5	160.5	164.6	164.3	160.9	164.8	164.5	172.1
Manufacturing	110.6	110.6	110.3	109.7	108.7	109.4	109.0	107.2	108.0	108.0	107.8	107.2	107.5
Durable goods	114.6	114.6	114.5	113.7	112.2	113.1	112.7	109.9	111.8	111.7	111.6	110.8	111.1
Lumber and wood products	142.6	143.8	143.4	143.6	143.8	143.8	143.7	144.0	143.8	141.9	143.9	144.6	146.4
Furniture and fixtures	131.1	132.B	133.1	132.7	133.7	134.0	134.4	134.3	133.7	131.4	132.4	131.4	133.3
Stone, clay, and glass products	114.9	116.5	116.2	113.9	114.1	114.7	114.4	115.2	116.0	115.4	115.7	116.5	118.1
Primary metal industries	96.3	96.6	95.8	95.5	93.7	94.6	94.4	91.1	93.3	92.3	91.6	90.7	90.5
Blast furnaces and basic steel products	73.8	75.6	74.6	74.4	73.4	74.5	73.7	71.2	71.9	71.0	70.1	67.3	68.9
Fabricated metal products	119.9	119.8	120.1	119.1	117.5	119.2	118.4	117.0	117.5	117.7	117.5	116.6	117.3
Industrial machinery and equipment	111.7	111.7	111.3	111.1	109.1	110.1	110.9	109.8	110.0	108.7	108.4	106.7	105.2
Electronic and other electrical equipment	113.0	112.8	112.8	111.3	110.1	110.7	110.3	108.7	109.1	108.9	108.0	106.6	106.0
Transportation equipment	131.8	130.0	130.1	128.7	124.6	127.0	124.7	112.2	122.8	126.5	127.1	126.5	128.4
Motor vehicles and equipment		166.8	166.6	164.6	158.9	161.8	157.2	129.0	153.5	161.9	161.1	161.6	165.5
Instruments and related products	76.9	77.4	77.6	76.8	76.6	76.6	76.1	76.1	75.9	75.2	75.0	74.5	74.5
Miscellaneous manfacturing	103.9	103.8	103.8	104.1	103.4	102.0	101.6	102.0	101.5	100.3	98.6	97.5	98.1
Nondurable goods	105.1	105.2	104.6	104.3	104.0	104.4	104.0	103.5	102.8	103.0	102.6	102.2	102.6
Food and kindred products		119.2	118.5	118.5	118.3	119.9	119.3	118.9	116.8	118.9	118.2	119.5	121.4
Tobacco products	61.5	60.7	61.0	59.7	62.5	62.3	59.9	60.3	58.8	57.9	59.1	58.5	56.4
Textile mill products	89.9	89.6	88.6	87.8	87.4	87.7	86.9	85.7	85.0	84.3	85.2	83.6	82.7
Apparel and other textile products		71.6	70.8	70.2	70.0	68.8	68.5	68.3	67.5	67.0	65.2	64.3	63.9
Paper and allied products	111.6	111.6	111.1	111,1	109.9	110.7	110.5	109.4	109.1	109.9	109.2	108.6	108.3
Printing and publishing		126.3	126.0	125.3	124.7	125.6	125.0	125.4	125.4	124.1	124.5	123.5	123.0
Chemicals and allied products		103.1	103.2	103.4	102.7	102.8	103.1	102.6	102.8	102.7	102.8	101.9	101.5
Petroleum and coal products		75.0	71.9	73.6	73.1	73.9	73.1	75.5	73.8	73.9	73.6	74.1	77.3
Rubber and misc. plastics products		148.4	147.9	147.2	148.1	148.9	148.4	147.0	146.6	147.3	147.1	146.8	148.4
Leather and leather products	38.9	38.3	38.7	37.3	36.7	36.1	35,8	34.7	35.1	33.9	33.9	33.4	33.1
Service-producing	156.0	156.9	157.0	156.7	157.0	158.2	158.2	159.1	159.0	158.7	159.7	159.9	160.3
Transportation and public utilities	131.0	131.5	131.1	130.9	130.2	131.5	130.5	131.4	131.2	131.2	131.6	131.9	131.4
Wholesale trade	126.9	128.0	128.2	127.6	127.9	128.8	127.9	128.6	129.0	128.7	129.1	129.9	130.0
Retail trade	139.2	139.8	139.9	139.3	139.8	141.1	140.7	141.9	141.3	141.5	142.0	141.7	141.5
Finance, insurance, and real estate	130.9	132.5	133.4	133.6	134.2	134.9	134.8	136.1	136.2	135.6	136.6	137.6	137.0
Services	191.0	192.1	192.0	191.9	192.3	193.7	194.5	195.2	195.2	194.6	196.4	196.3	197.9

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 1997 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 forward are subject to revision.

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

	Million	s of hours (annual	rate) ¹		Percent change	
Industry	Oct. 1998 ^r	Nov. 1998 ^r	Dec. 1998 ^p	Dec. 1997 to Dec. 1998 ^p	Oct. 1998 to Nov. 1998 ^r	Nov. 1998 To Dec. 1998 ^p
Total	231,364	232,159	233,835	2.4	0.3	0.7
Private sector	194,593	194,856	195,681	2.4	.1	.4
Mining	1,279	1,266	1,250	-9.7	-1.0	-1,2
Construction	12,224	12,215	12,713	7.9	1	4.1
Manufacturing	40,422	40,232	40,292	-1.9	5	.2
Durable goods	24,282	24,134	24,162	-2.1	6	.1
Nondurable goods	16,140	16,097	16,131	-1.6	3	.2
Transportation and public utilities	13,539	13,546	13,554	1.1	.0	.1
Wholesale trade	13,670	13,764	13,778	2.8	.7	.1
Retail trade	34,182	34,162	34,124	2.1	1	1
Finance, insurance, and real estate	14,019	14,132	14,092	4.6	.8	3
Services	65,258	65,540	65,878	4.2	.4	.5
Government	36,772	37,303	38,154	2.8	1.4	2.3

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

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—606-5606). Historical data for this series also are available on the Internet at the following address:

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

^p = preliminary.

r = revised.

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

	1997	l					19	98					
Industry	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p	Dec.p
				,		Averag	e hourly	earnings		·		,	
Total private (in current dollars)	\$12.50	\$12.54	\$12.59	\$12.63	\$ 12.70	\$ 12.73	\$12.76	\$12.79	\$12.85	\$12.87	\$12.90	\$12.93	\$12.98
Goods-producing	14.15	14.16	14.21	14.25	14.25	14.27	14.28	14.31	14.39	14.39	14.43	14.46	14.50
Mining		16.47	16.76	16.82	16.72	16.77	16.73	16.88	17.10	17.15	17.20	17.35	17.32
Construction		16.27	16.34	16.40	16.45	16.46	16.51	16.64	16.67	16.57	16.69	16.76	16.81
Manufacturing	13.37	13.3B	13,42	13.46	13.44	13.47	13.47	13.42	13.52	13.57	13.57	13.58	13.58
Excluding overtime ²	12.63	12.66	12.69	12.73	12.76	12.78	12.76	12.71	12.81	12.90	12.88	12.89	12.89
Service-producing	11.95	12.00	12.06	12.10	12.19	12.23	12.26	12.30	12.35	12.38	12.41	12.44	12.49
Transportation and public utilities	15.16	15.21	15.25	15.27	15.32	15.31	15.29	15.33	15.35	15.42	15.42	15.45	15.56
Wholesale trade		13.75	13.81	13.84	13.88	14.00	13.98	14.07	14.16	14.14	14.19	14.24	14.26
Retail trade		8.56	8.59	8.64	8.70	8.72	8.73	8.78	8.83	8.86	8.85	8.85	8.90
Finance, insurance, and real estate		13.72	13.83	13.85	14.00	14.03	14.07	14.10	14,16	14.17	14.24	14.34	14.36
Services	12.50	12.54	12.60	12.65	12.76	12.81	12.87	12.90	12.95	12.99	13.03	13.05	13.09
Total private (in constant (1982) dollars)3	7.63	7.66	7.69	7.72	7.74	7.73	7.75	7.75	7.78	7.79	7.79	7.79	(4)
Goods-producing	8.64	8.64	8.68	8.70	8.68	8.67	8.67	8.67	8.72	8.71	8.71	8.72	(4)
Service-producing	7.30	7.33	7.36	7.39	7.43	7.43	7.44	7.45	7.48	7.49	7.49	7.50	(4)
						Average	e weekly	eamings	·	·			
Total private (in current dollars)	433.75	436.39	436.87	437.00	438.15	441.73	441.50	442.53	444.61	442.73	446.34	446.09	449.11
Goods-producing	585.81	589.06	588.29	584.25	581.40	586.50	585.48	588.14	591.43	587.11	593.07	591.41	597.40
Mining	739.05	747.74	744.14	736.72	737.35	747.94	732.77	756.22	748.98	740.88	753.36	754.73	748.22
Construction		647.55	640.53	631.40	636.62	635.36	633.98	652.29	651.80	636.29	652.58	650.29	667.36
Manufacturing		563.30	563.64		556.42	563.05		559.61	563.78		565.87	564.93	567.64
•		000.00	330.04	302.00	300.42	300.00	300.00	300.01	300.70	307.51	303.07	304.50	307.04
Service-producing	393.16	396.00	397.98	396.88	401.05	403.59	403.35	404.67	406.32	406.06	408.29	409.28	410.92
Transportation and public utilities		608.40	608.48		606.67	609.34	603.96	607.07	603.26	606.01	606.01	607.19	
Wholesale trade		529.38	531.69		531.60	539.00	534.04	538.88	543.74	540.15	543.48	548.24	549.01
Retail trade		248.24			252.30			255.50		256.94	257.54	256.65	
Finance, insurance, and real estate		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Services	408.75	411.31	412.02	412.39	415.98	418.89	420.85	421.83	423.47	422.18	426.08	425.43	429.35
Total private (in constant (1982) dollars)3			266.71	266.95	267.00	268.37	268.06	268.20	269.30	268.00	269.37	268.89	(4)
Goods-producing	357.64		359.15	356.90	354.30	356.32	355.48	356.45	358.23	355.39	357.92	356.49	(4)
Service-producing	240.02	241.76	242.97	242.44	244.39	245.19	244.90	245.25	246.11	245.80	246.40	246.70	(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.

and real estate; and services.

² Derived by assuming that overtime hours are paid at the rate of time and one-half.

one-half.

The Consumer Price Index for Urban Wager 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 1997 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 forward are subject to revision.

B-12. Employees on nonfarm payrolls by detailed industry

(in thousands)

	1987		A	II employe	es			Prod	uction wor	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Total		124,965	125,123	127,504	127,820	127,976	-	-	-		-
Total private	}	104,869	105,077	107,250	107,372	107,575	86,024	86,161	87,816	87,908	88,024
Mining		594	591	570	563	556	450	447	433	427	421
Metal mining	10	52.9	51.8	50.4	50.0	49.8	40.4	39.4	38.2	37.7	-
Iron ores	101	8.4	8.4	8.2	8.2	-	7.0	6.9	6.8	6.8	-
Copper ores		16.0	16.0	14.6	14.5	-	12.0	12.0	11.0	10.8	-
Coal mining	12	94.3	93.9	89.0	90.1	89.4	77.3	77.0	73.2	74.0	-
Bituminous coal and lignite mining	122	88.7	88.5	83.2	84.3	-	72.6	72.4	68.2	69.0	-
Oil and gas extraction	13	338.6	339.8	319.3	313.5	310.5	249.7	251.2	236.6	232.3	-
Crude petroleum and natural gas	131	140.6	141.0	133.2	131.4	_	81.1	81.5	80.2	79.3	_
Oil and gas field services	138	193.1	193.9	181.7	177.7	_	164.5	165.6	152.6	148.9	_
Nonmetallic minerals, except fuels	14	108.2	105.1	111.3	109.3	106.3	82.1	79.3	84.8	83.3	-
Crushed and broken stone	142	41.9	40.6	42.9	42.5	-	32.7	31.5	33.5	33.0	-
Sand and gravel		36.2	34.5	38.3	37.0		-	- :	-	-	-
Chemical and fertilizer minerals		11.5	11.6	11.5	11.4	-	-	- ,	-	-	-
Construction	ļ	5,879	5,704	6,269	6,186	6,047	4,580	4,403	4,895	4,808	4,667
General building contractors	15	1,355.8	1,343.5	1,452.2	1,437.2	1,425.3	959.5	945.7	1,023.1	1,007.9	_
Residential building construction	152	703.1	696.8	762.9	755.8	-	479.9	472.8	519.0	511.1	_
Operative builders		26.9	26.6	29.1	28.5	_	10.8	10.7	11.2	11.1	-
Nonresidential building construction		625.8	620.1	660.2	652.9	-	468.8	462.2	492.9	485.7	-
Heavy construction, except building	16	823.4	757.6	905.9	869.0	813.9	688.2	624.2	769.5	733.3	-
Highway and street construction	161	250.7	208.4	288.2	262.7] -	204.8	163.4	241.6	216.7	_
Heavy construction, except highway		572.7	549.2	617.7	606.3	-	483.4	460.8	527.9	516.6	-
Special trade contractors	17	3,699.8	3,602.6	3,911.1	3,880.1	3,807.9	2,932.2	2,833.0	3,102.4	3,067.2	_
Plumbing, heating, and air conditioning		802.7	804.6	838.9	836.4		593.5	594.7	620.5	617.2	-
Painting and paper hanging	172	206.8	195.6	215.7	210.5	-	172.2	160.6	179.6	174.6	_
Electrical work		709.2	708.5	747.4	747.4	-	565.2	564.7	593.3	592.1	-
Masonry, stonework, and plastering		487.3	474.8	531.2	532.9	-	420.7	407.7	461.8	462.5	-
Carpentry and floor work	175	257.2	259.9	283.7	280.9	-	197.4	198.6	215.3	213.0	-
Roofing, siding, and sheet metal work	176	250.0	238.1	264.5	259.9	-	199.4	186.9	212.0	206.9	-
Manufacturing	}	18,814	18,817	18,683	18,621	18,580	13,023	13,016	12,867	12,814	12,785
Durable goods	ĺ	11,126	11,149	11,066	11,038	11,021	7,649	7,664	7,570	7,550	7,546
•	ļ	799,3	797.2	815.3	812.0	808.6	659.2	656.7	670.1	667.5	663.2
Lumber and wood products Logging	241	83.8	82.3	82.0	79.9	- 806.6	67.3	66.2	64.6	63.1	~
Sawmills and planing mills	242	181.8	182.3	180.1	179.6		158.5	158.9	157.0	156.6	_
Sawmills and planing mills, general	2421	143.4	143.9	140.3	139.4	-	124.7	125.0	121.9	121.1	-
Hardwood dimension and flooring mills		36.5	36.4	37.5	37.7	-	32.2	32.2	33.2	33.4	-
Millwork, plywood, and structural members	243	296.1	296.5	312.2	312.0	-	238.5	237.7	251.3	251.2	-
Millwork	2431	117.0	117.9	123.1	122.7	-	90.5	90.3	95.6	95.5	-
Wood kitchen cabinets	2434	82.7	83.0	88.6	88.9	-	67.2	67.4	71.9	72.1	-
Hardwood veneer and plywood		28.6	28.6	29.2	29.0	-	24.3	24.3	24.7	24.6	J -
Softwood veneer and plywood		28.9	28.6	28.8	29.0	-	26.6	26.2	26.1	26.2	-
Wood containers		54.0	54.0	52.7	52.0	-	46.1	46.3	44.9	44.6	-
Wood buildings and mobile homes		93.8	92.5	97.8	98.0	-	75.4	74.1	78.6	78.3	-
Mobile homes Miscellaneous wood products		71.3	70.1 89.6	75.1 90.5	75.1 90.5	_	59.9 73.4	58.6 73.5	63.0 73.7	62.8 73.7	_
·	Į	5.50	[[47.0	505.0		E00.0	440.	4400	440.4	440.0	400.0
Furniture and fixtures	251	515.6	517.8 280.0	525.8	526.6	529.8	410.1	412.2	418.4	419.0	422.8
Household furniture		278.7	1	281.7	282.1	_	235.1	236.6	238.4	238.6	_
Wood household furniture		124.8 88.4	124.4 88.8	126.4	126.9 89.8	-	108.2	108.0 74.9	109.7 76.1	109.9 76.4	_
Metal household furniture		19.4	20.8	18.2	18.4	_	16.1	17.4	14.9	15.1	
Mattresses and bedsprings		34.6	34.9	35.2	34.9	-	26.7	27.1	27.2	26.9	_
madicases and negabilities	120,0	1 57.5	""	}	1 37.3	I -	•	-′.'	٠٠٠٤ ا	20.9	

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1987		A	ll employe	9 s			Prod	uction wor	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec 1998
Durable goods—Continued											
Furniture and fixtures—Continued								1			ŀ
Office furniture	252	64.7	65.1	65.6	65.7	_	48.0	48.3	47.7	47.8	- 1
Public building and related furniture		43.6	43.9	45.9	46.3	-	34.3	34.5	35.5	36.1	l –
Partitions and fixtures		88.6	88.6	90.7	90.7	-	66.1	66.2	68.2	68.1	-
Miscellaneous furniture and fixtures	259	40.0	40.2	41.9	41.8	-	26.6	26.6	28.6	28.4	-
Stone, clay, and glass products	32	557.4	550.0	572.6	570.7	565.1	436.9	429.4	449.6	447.8	441
Flat glass	321	17.0	16.8	16.5	16.5	_	13.8	13.6	13.0	13.1	
Glass and glassware, pressed or blown		72.7	72.8	71.3	71.2	-	60.4	60.3	58.8	58.7	_
Glass containers		25.8	26.0	25.6	25.4	-	23,1	23.2	22.5	22.5	_
Pressed and blown glass, nec		46.9	46.8	45.7	45.8	-	37.3	37.1	36.3	36.2	_
Products of purchased glass	323	64.2	63,4	64.6	64.8	-	51.0	49.9	50.1	50.0	-
Cement, hydraulic		17.3	17.2	17.5	17.5	-	13.2	13.1	13.1	13.1	_
Structural clay products	325	33.6	33.4	33.1	33.1	-	26.3	26.0	25.4	25.4	-
Pottery and related products	326	38.9	38.6	38.2	38.1	-	30.6	30.4	29.9	29.9	_
Concrete, gypsum, and plaster products	327	219.9	213.9	231.7	230.0	-	169.8	164.1	180.8	179.2	-
Concrete block and brick	3271	18.4	17.8	18.6	18.6	-	11.9	11.4	12.0	12.0	_
Concrete products, nec		73.6	72.9	78.1	78.0		56.5	55.7	60.5	60.5	-
Ready-mixed concrete	3273	110.0	105.2	116.9	115.4	- '	87.3	82.8	94.0	92.5	-
Misc. nonmetallic mineral products		78.7	79.0	80.3	80.0	-	60.6	60.8	63.3	62.9	-
Abrasive products	3291	20.0	20.3	20.2	20.0	-	15.9	16.1	16.0	15.9	-
Asbestos products	3292	2.5	2.5	2.5	2.5	-	2.1	2.1	2.2	2.1	-
Mineral wool	3296	24.2	24.3	24.6	24.7	-	-	-	-	-	-
Primary metal industries	33	718.0	720.1	705.3	700.7	700.0	563.0	564.5	551.6	547.5	54
Blast furnaces and basic steel products		236.3	236,2	229.5	226.5	227.6	182.3	182.4	176.8	174.4	17
Blast furnaces and steel mills		163.6	163.1	158.3	155.9	_	127.4	127.2	123.1	121.2	-
Steel pipe and tubes		28.5	28.7	28.3	28.2	_	21.4	21.6	21.4	21.3	_
Iron and steel foundries	332	133.0	133.5	130.9	130.2	-	109.3	109.8	107.3	106.7	-
Gray and ductile iron foundries	3321	81.5	81.7	79.7	79.2	-	67.8	67.9	66.0	65.6	_
Malleable iron foundries		4.7	4.7	4.6	4.6	-	3.6	3.7	3.5	3.4	-
Steel foundries, nec		27.9	28.0	28.5	28.5	-	22.8	22.9	23.4	23.4	-
Primary nonferrous metals	333	39.4	39.4	37.7	37.5	-	30.5	30.4	29.2	29.0	-
Primary aluminum		22.2	22.2	21.6	21.6	-	18.0	17.9	17.5	17.5	-
Nonferrous rolling and drawing		168.6	169.3	168.0	167.7	-	129.7	130.1	128.8	128.3	-
Copper rolling and drawing		22.3	22.6	22.2	22.1	-	17.7	18.0	18.1	18.1	-
Aluminum sheet, plate, and foil		21.3	21.0	19.8	19.8	-	15.8	15.7	14.5	14.5	-
Nonferrous wire drawing and insulating		72.1	72.5	72.4	72.6	-	55.2	55.2	54.6	54.5	-
Nonferrous foundries (castings)		93.1	93,6	91.7	91.2	-	75.9	76.3	74.5	74.2	-
Aluminum foundries	3365	25.9	25.9	26.3	26.0	-	21.3	21.3	21.7	21.5	-
Fabricated metal products	34	1,493.9	1,497.8	1,487.0	1,486.3	1,485.5	1,127.9	1,131.3	1,120.0	1,119.7	1,11
Metal cans and shipping containers		37.2	37.2	36.3	36.2	-	31.7	31.7	30.7	30.6	-
Metal cans		29.8	29.7	29.2	29.2	-	25.7	25.6	25.2	25.2	-
Cutlery, handtools, and hardware		126.5	126.7	124.8	124.5	-	97.0	97.3	95.9	95.7	-
Hand and edge tools, and blades and handsaws		43.2	43.3	42.4	42.3	- 1	33.4	33.3	32.8	32.9	-
Hardware, nec		70.1	70.4	69.3	69.1	-	53.6	54.2	53.0	52.8	-
Plumbing and heating, except electric		60.0	60.3	59.3	59.9	-	43.1	43.2	42.1	42.7	-
Plumbing fixture fittings and trim	3432	23.8	24.0	23.9	24.4	-	17.2	17.4	17.3	17.9	-
Heating equipment, except electric	3433	21.8	21.8	21.1	21.1	-	15.0	14.8	13.9	13.9	-
Fabricated structural metal products	344	456.4	455.7	459.4	459.2	-	334.3	334.1	336.8	336.2	-
Fabricated structural metal	1	79.4	78.8	80.7	81.1	-	58.2	57.7	59.5	59.6	_
Metal doors, sash, and trim		79.6	78.7	80.8	80.8	-	58.9	58.0	60.1	60.1	_
Fabricated plate work (boiler shops)		101.2	101.8	98.6	97.8	-	73.0	73.7	70.7	69.6	-
Sheet metal work		121.6	121.7	123.4	123.1	- 1	93.1	93.4	94,5	94.5	-
		31.2	31.1	32.4	32.8	-	22.7	22.7	23.9	24.2	-
Architectural metal work	345	106.8	107.6	107.1	107.1	-	84.0	84.5	83.8	83.9	-
Screw machine products, bolts, etc		55.8	56.3	55.8	55.9	-	45.4	45.7	45.5	45.6	-
Screw machine products, bolts, etc			51.3	51.3	51.2	-	38.6	38.8	38.3	38.3	-
Screw machine products, bolts, etc	3452	51.0								A'	
Screw machine products, bolts, etc	3452 346	258.9	260.6	259.0	260.1	-	205.8	206.9	204.2	205.2	-
Screw machine products, bolts, etc	3452 346 3462	258.9 32.8	260.6 33.0	259.0 33.3	260.1 33.3	-	25.1	25.4	25.2	25.2	-
Screw machine products, bolts, etc	3452 346 3462 3465	258.9	260.6	259.0	260.1						- - -

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

(in thousands)

	1987		A	l employe	es			Prod	uction wor	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P
Durable goods—Continued		•	}			1					
Fabricated metal products—Continued			ŀ				[!			!
Metal services, nec	347	140.7	140.9	138.5	138.1	_	113.5	113.8	111.6	111.5	_
Plating and polishing	3471	86.4	86.8	84.7	84.6	1 -	70.4	71.0	69.1	69.1	_
Metal coating and allied services		54.3	54.1	53.8	53.5	۱ -	43.1	42.8	42.5	42.4	- 1
Ordnance and accessories, nec		41.8	41.8	39.8	39.5	-	23.3	23.4	23.3	23.0	-
Ammunition, except for small arms, nec		22.2	22.3	21,1	21.0	-	10.3	10.3	9.7	9.8	l –
Miscellaneous fabricated metal products		265.6	267.0	262.8	261.7	- '	195.2	196.4	191.6	190.9	_
Valves and pipe fittings, nec		26.2	26.2	24.6	24.6	-	19.4	19.3	17.7	17.6	-
Misc. fabricated wire products		57.0	57.1	57.4	57.0	-	42.9	43.0	43.2	43.1	-
Industrial machinery and equipment	35	2,186.5	2,198.5	2,164.0	2,156.1	2,153.3	1,377.9	1,388.0	1,367.5	1,363.5	1,363.
Engines and turbines	351	82.8	82.9	83.3	83.2		52.3	52.2	54.3	54.4	
Turbines and turbine generator sets		24.3	24.3	23.4	23.3	_	13.7	13.8	13.1	13.0	_ ا
Internal combustion engines, nec		58.5	58.6	59.9	59.9	-	38.6	38.4	41.2	41.4	-
Farm and garden machinery		102.9	105.7	99.0	96.4	_	74.9	77.5	71.0	68.8	-
Farm machinery and equipment		78.0	79.1	75.6	72.6	-	56.6	57.6	53.7	51.0	_
Construction and related machinery		249.6	251.8	251.5	251.1	- 1	163.4	164.9	162.8	162.3	- 1
Construction machinery		90.3	91.1	91.6	91.4		61.7	62.4	61.9	62.2	- ا
Mining machinery		17.1	17.2	16.8	16.7	-	10.3	10.4	9.9	9.9	- 1
Oil and gas field machinery		50.7	51.2	49.3	48.2	-	34.6	34.8	33.2	31.7	l –
Conveyors and conveying equipment	3535	40.9	41.4	41.9	42.4	-	22.8	23.0	22.6	22.8	- 1
Industrial trucks and tractors		31.6	31.8	32.5	33.0	1	22.0	22.1	22.6	23.1	l –
Metalworking machinery		352.1	352.8	345.1	344.8	-	251.1	252.7	245.7	246.0	-
Machine tools, metal cutting types		42.2	42.9	41.9	41.9	-	26.6	27.3	26.4	26.3	-
Machine tools, metal forming types	3542	18.0	18.0	17.8	17.7	- 1	11.3	11.4	11.2	11.1	-
Special dies, tools, jigs, and fixtures	3544	169.4	169.9	166.2	166.5	-	129.7	130.4	126.3	126.8	-
Machine tool accessories	3545	53.8	53.6	53.3	53.3	- 1	38.2	38.1	38.0	38.0	-
Power driven handtools	3546	20.9	20.6	20.0	19.8	-	14.4	14.3	14.4	14.4	-
Special industry machinery	355	184.6	185.1	177.9	177.3	-	101.0	101.4	97.9	98.1	-
Textile machinery		15.2	15.1	14.9	14.8	-	9.9	10.0	9.7	9.6	-
Printing trades machinery		23.0	23.1	23.0	23.0	-	13.0	13.2	12.9	13.0	-
Food products machinery	3556	25.3	25.3	24.5	24.6	-	15.1	14.9	14.6	14.7	-
General industrial machinery		264.9	266.4	263.0	262.2	-	169.5	170.4	167.3	166.7	-
Pumps and pumping equipment		30.4	30.5	29.9	29.9	-	17.6	17.7	17.4	17.3	-
Ball and roller bearings		40.5	40.6	41.0	40.7	-	31.6	31.6	31.6	31.4	_
Air and gas compressors		26.4	26.4	26.6	26.4	-	15.3	15.3	14.9	14.6	-
Blowers and fans		35.3	35.5	35.5	35.5	-	23.8	24.0	24.6	24.7	-
Speed changers, drives, and gears		18.1	18.3	18.2	18.2	-	13.2	13.3	13.3	13.3	-
Power transmission equipment, nec		22.2	22.3	21.5	21.3	-	15.4	15.6	15.1	15.0	-
Computer and office equipment		378.7	380.7	370.9	368.2	365.6	143.2	144.4	144.2	144.2	- 1
Electronic computers	35/1	198.5	199.6	192.2	190.3	-	67.5	68.6	71.0	71.7	-
Computer terminals, calculators, and	2575 0 0	610	64.2	62.0	62.0		24.2	24.4	24.3	22.6	l _
office machines, nec		61.0 200.8	61.2 200.0	62.8 199.4	62.0 199.4	-	24.3 143.2	24.1 143.0	24.3 143.5	23.6 142.8	-
Refrigeration and service machinery			137.5	135.8	136.7	1	104.0	103.8	102.9	103.1	-
Refrigeration and heating equipment		138.2 370.1	373.1	373.9	373.5	_	279.3	281.5	280.8	280.2	I -
Carburetors, pistons, rings, valves		22.7	22.9	23.4	23.1	_	18.1	18.3	18.8	18.5	ΙĪ
Scales, balances, and industrial machinery, nec		300.2	302.5	301.8	301.8	_	231.8	233.4	231.5	231.2	_
•	ļ	1,7440	1 700 5	1 670 6	1 674 0	1 670 6	1 000 5	1 000 7	1.040.4	1 040 0	1
Electronic and other electrical equipment	36	1,714.9		1,678.6			,				1,047.
Electric distribution equipment	3612	83.3	82.0	83.2	83.2	_	56.5	55.3	55.1	55.0	l -
Transformers, except electronic		40.2	39.6 42.4	38.9 44.3	38.7 44.5	_	27.6	27.0 28.3	25.3 29.8	25.2	-
Switchgear and switchboard apparatus		43.1	154.2	151.0		_	28.9	107.2	104.3	29.8 104.0	-
Electrical industrial apparatus		153.5 76.1	76.6	74.8	150.7 74.8	_	107.1 59.2	59,3			-
		57.0	57.1	55.5	55.3	_	33.1	33.1	57.6 32.0	57.2 32.2	
Relays and industrial controls Household appliances		115.3	115.3	115.0	115.0		90.9	91.0	92.3	92.6	· -
Household refrigerators and freezers		23.2	23.3	23.4	23.5		17.9	18.0	18.8	19.0	l -
	10002										ı –
	3633	17.3	1 17/	190	190	'	137	194	1/10	151	_
Household laundry equipment Electric housewares and fans		17.3 27.1	17.4 26.3	18.0 25.5	18.0 25.0	<u>-</u>	13.7 20.7	13.8 20.0	14.9 19.3	15.1 18.8	_

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1987	L	A	i employe	es			Prod	uction wor	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Durable goods—Continued											
Electronic and other electrical equipment—Continued	[ŀ		i							
Electric lighting and wiring equipment	364	182.5	183.1	181.4	181.4	_ :	130.8	131.1	130,1	129.5	- 1
Electric lamps	3641	21.8	22.1	20.5	20.4	- 1	16.9	17.1	16.4	16.3	-
Current-carrying wiring devices		62.8	62.9	62.0	61.7	-	41.5	41.5	40.8	40.6	-
Noncurrent-carrying wiring devices		18.0	18.0	18.4	18.6	-	13.6	13.5	13.9	13.9	-
Residential ing fixtures		22.2	21.5	21.4	21.2	-	16.5	16.1	16.3	16.0	-
Household audio and video equipment		79.5	79.5	78.4	79.0	-	51.2	51.6	50.1	50.5	=
Household audio and video equipment Communications equipment		53.7 278.1	53.8 278.8	52.7 272.0	53.2 271.4	_	31.6 133.2	31.8 133.6	30.8 126.0	31.1 124.8	_
Telephone and telegraph apparatus		122.5	123.1	125.9	123.9	1 -	60.2	60.0	57.8	55.9	
Electronic components and accessories		672.8	677.6	652.8	650.1	648.6	408.4	413.9	388.2	385.1	_
Electron tubes		22.8	22.9	21.8	21.7	_	16.8	16.9	15.8	15,9	_
Semiconductors and related devices		288.7	291.3	279.6	278.5		131.2	134.1	122.8	120.9	_
Electronic components, nec	3679	148.8	149.6	145.0	144.2	-	102.5	103.6	98.7	97.8	-
Misc. electrical equipment and supplies		149.9	150.0	144.8	143.5	- 1	108.4	109.0	103.0	102.1	-
Storage batteries		26.6	26.5	25.6	25.5	-	20.8	20.7	20.0	20.0	-
Engine electrical equipment	3694	66.5	66.9	65.2	63.9	-	52.3	52.8	49.6	48.8	-
Transportation equipment		1,882.1	1,890.2	1,882.0	1,882.5	1,884.3	1,285.5	1,289.5	1,248.6	1,250.6	1,252.
Motor vehicles and equipment		1,006.6	1,010.4	997.6	999.3	1,000.1	798.0	799.1	758.3	761.6	762.
Motor vehicles and car bodies		361.5	361.4	357.1	357.5	-	280.5	278.2	256.2	257.3	-
Truck and bus bodies		41.0	41.4	42.3	42.7	-	32.7	32.9	33.4	33.7	-
Motor vehicle parts and accessories Truck trailers		549.1 34.9	551.8 35.9	538.4 38.7	539.3 38.7		439.9 28.4	442.3 29 .3	420.1 31.1	422.1 31.1	_
Aircraft and parts		518.7	521.6	522.4	522.0	520.8	264.6	265.7	261.6	261.5	_
Aircraft		272.9	274.8	271.8	271.0	J20.0	117.0	117.8	114.5	114.4	_
Aircraft engines and engine parts		101.3	101.5	103.6	103.6		54.8	54.6	52.2	52.1	_
Aircraft parts and equipment, nec		144.5	145.3	147.0	147.4	_	92.8	93.3	94.9	95.0	_
Ship and boat building and repairing		156.3	157.3	162.6	162.4	-	117.8	119.7	123.6	123.6	-
Ship building and repairing		99.0	99.7	100.5	100.4	-	70.1	71.7	72.3	72.3	_
Boat building and repairing		57.3	57.6	62.1	62.0	-	47.7	48.0	51.3	51.3	-
Railroad equipment		33.4	33.6	34.7	34.7	-	25.1	25.3	25.4	25.1	-
Guided missiles, space vehicles, and parts		91.1 62.9	91.3 63.1	86.8 60.4	86.8 60.2	_	24.5 15.4	24.5 15.4	22.6 14.4	22.7 14.2	_
Guided missiles and space vehicles Miscellaneous transportation equipment	370	52.9	53.0	55.2	54.5	_	38.5	38.6	41.1	39.8	_
Travel trailers and campers		22.0	22.3	23.8	23.1	_	18.5	18.7	20.1	19.4	~
Instruments and related products	38	B67.3	868.7	849.8	845.7	843.5	427.4	429.1	426.5	424.2	425.
Search and navigation equipment	381	161.3	161.3	158.1	156.7	-	42.9	43.0	44.3	43.8	-
Measuring and controlling devices	382	300.4	301.3	296.0	293.9	-	153.6	154.4	150.9	149.5	_
Environmental controls	3822	40.6	40.4	38.9	38.8	-	27.4	27.3	27.1	27.0	-
Process control instruments		66.0	66.2	64.8	64.3	-	33.6	34.1	32.6	32.1	_
Instruments to measure electricity		76.2	76.6	76.0	75.2	-	31.9	32.2	30.9	30.3	-
Medical instruments and supplies		277.9	278.7	277.6	276.9	_	161.6	162.2	165.1	164.9	_
Surgical and medical instruments		108.4	108.7 96.2	108.3 96.5	107.7 96.7	_	68.0 59.5	68.5 59.8	70.1 59.8	69.8 59.9	_
Surgical appliances and supplies Ophthalmic goods		35.9	36.0	36.2	36.0	_	23.3	23.7	25.3	25.2	
Photographic equipment and supplies		83.9	83.4	74.6	75.0	_	39.5	39.2	34.9	34.9	
Watches, clocks, watchcases, and parts		7.9	8.0	7.3	7.2	-	6.5	6.6	6.0	5.9	-
Miscellaneous manufacturing industries	39	390.9	388.0	386.0	382.6	378.2	274.1	270.8	268.7	266.6	262.
Jewelry, silverware, and plated ware	391	49.3	49.0	51.4	51.3	-	34.4	33.8	35.3	35.4	-
Jewelry, precious metal	3911	37.1	36.8	38.5	38.5	-	25.5	25.0	26.0	26.1	-
Musical instruments	393	16.3	16.4	16.8	16.7	-	12.8	13.0	13.4	13.4	-
Toys and sporting goods		107.5	107.0	97.8	96.7	-	73.6	72.7	65.2	65.2	-
Dolls, games, toys, and children's vehicles		37.4	36.5	33.3	32.2	-	24.7	23.4	21.0	20.9	-
Sporting and athletic goods, nec		70.1	70.5	64.5	64.5	-	48.9	49.3	44.2	44.3	-
Pens, pencils, office, and an supplies	395	30.4	30.4	29.9	29.7	-	20.5	20.7	20.7	20.7	-
Costume jewelry and notions	396	23.9	23.7	23.4	23.3	_	17.1	16.8	17.0	16.8	-
Costume jewelry		13.9	13.6	13.6	13.5	-	10.2	9.8	10.2	9.9	I -
Miscellaneous manufactures		163.5	161.5 70.4	166.7	164.9 73.9] -	115.7	113.8 45.9	117.1	115.1	-
Signs and advertising specialities	ეაყყა	70.4	Į /U.4	74.9	/3.9	-	45.9	l 45.9	49.3	48.2	ı -

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

(In thousands)

	1987	<u></u>	A	l employe	es	,		Prod	uction wor	kers ¹	,
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Nondurable goods		7,688	7,668	7,617	7,583	7,559	5,374	5,352	5,297	5,264	5,23
Food and kindred products	20	1,704.9	1,688.3	1,733.8	1,719,1	1,705.9	1,269.8	1,251.6	1,294.9	1,281.6	1,265
Meat products	201	496.4	497.6	507.5	511.3	-	422.5	422.7	432.8	437.3	-
Meat packing plants	2011	153.0	153.2	155.3	156.3	-	128.6	128.4	129.8	131.2	_
Sausages and other prepared meats	2013	97.8	97.8	100.8	101.9	-	75.8	75.6	79.6	80.8	-
Poultry slaughtering and processing	2015	245.6	246.6	251.4	253.1	 	218.1	218.7	223.4	225.3	_
Dairy products	202	140.5	140.6	142.3	142.0	l -	93.2	93.4	97.2	96.8	_
Cheese, natural and processed	2022	39.9	40.2	40.2	40.4	-	32.5	32.8	32.6	32.7	_
Fluid milk	2026	62.0	61.8	62.4	62.5	-	35.3	35.2	37.1	37.2	-
Preserved fruits and vegetables	203	225.3	214.6	240.9	226.3	-	189.3	178.2	204.0	189.5	-
Canned specialties	2032	18.6	18.8	19.3	18.9	-	14.7	14.8	15.6	15.0	-
Canned fruits and vegetables	2033	65.8	58.7	72.0	62.8	-	54.6	47.3	60.5	51.6	-
Frozen fruits and vegetables		48.3	46.1	55.3	49.9	-	42.2	39.8	48.5	43.3	-
Grain mill products	204	125.7	125.4	125.1	124.6	-	90.5	90.6	88.0	88.1	-
Flour and other grain mill products	2041	19.1	19.0	19.5	19.3	-	11.7	11.8	11.7	11.6	-
Prepared feeds, nec	2048	39.5	39.5	40.0	39.9	-	26.0	26.3	25.7	25.8	-
Bakery products	205	211.4	211.0	208.8	211.3	-	142.4	141.5	141.6	143.3	-
Bread, cake, and related products	2051	151.3	151.3	151.4	152.6	-	91.6	91.2	92.5	93.0	-
Cookies, crackers, and frozen bakery products,		1									l
except bread	2052,3	60.1	59.7	57.4	58.7	- :	50.8	50.3	49.1	50,3	i –
Sugar and confectionery products	206	109.9	107.1	108.0	106.7	-	88.0	85.0	86.4	85.2	-
Raw cane sugar	2061	7.9	7.9	6.5	8.1	-	6.0	6.0	5.0	6.6	-
Cane sugar refining	2062	4.2	4.3	4.0	4.2	-	3.1	3.1	3.1	3.2	-
Beet sugar	2063	11.1	9.7	12.8	10.2	-	10.2	8.7	11.7	9.1	_
Candy and other confectionery products	2064	59.6	58.3	57.3	57.8	-	48.3	47.0	45.4	46.1	-
Fats and oils	207	33.7	33.7	35.9	35.7	-	23.8	23.7	24.8	24.7	-
Beverages	208	181.0	181.1	186.3	184.9	-	88.6	88.6	91.1	90.2	-
Malt beverages	2082	33.4	33.6	32.9	33.2	-	21.2	21.5	20.3	20.7	_
Bottled and canned soft drinks	2086	93.8	94.0	97.1	96.7	-	38.6	38.4	39.6	39.3	-
Misc. food and kindred products	209	181.0	177.2	179.0	176.3	-	131.5	127.9	129.0	126.5	-
Tobacco products	21 211	43.6 27.7	43.5 27.7	41.9 25.6	41.8 25.7	42.0 -	34.5 20.6	34.3 20.7	33.1 19.0	33.0 19.1	33
Textile mill products	22	611.2	611.3	588.3	583.6	579.8	518.2	518.7	497.5	492.9	488
Broadwoven fabric mills, cotton	221	71.9	71.8	68.3	67.9	- 3,3.0	64.4	64.4	61.2	60.8	-
Broadwoven fabric mills, synthetics	222	65.2	66.1	64.0	63.8	_ :	54.8	55.7	54.5	54.3	_
Broadwoven fabric mills, synthetics	223	13.9	13.9	11.8	11.7	_	11.7	11.8	9.9	9.8	_
Narrow fabric mills		21.2	21.3	20.9	21.0	_	17.7	17.7	17.1	17.2	l _
Knitting mills	225	168.6	167.6	156.9	153.9	_	144.0	142.9	132.9	130.2	- 1
Women's hosiery, except socks	2251	19.2	19.1	16.9	16.9	_	16.9	16.8	14.5	14.6	_
Hosiery, nec	2252	37.5	37.2	36.5	36.3	_	32.7	32.5	31.8	31.4	-
Knit outerwear mills	2253	50.5	49.8	47.5	45.4	_	43.3	42.7	40.5	38.5	۱ _
Knit underwear mills	2254	14.3	14.1	12.2	12.1	_	12.5	12.4	10.9	10.8	l _
Weft knit fabric mills	2257	25.2	25.4	22.6	22.0	_	21.0	21.0	18.8	18.4	_
Textile finishing, except wool	226	66.0	65.9	61.9	61.5	-	53.9	53.9	51.1	50.4	l _
Finishing plants, cotton	2261	30.9	30.8	28.4	28.7	_	25.3	25.2	23.3	23.5	_
Finishing plants, synthetics	2262	20.7	20.8	19.3	19.3	_	16.6	16.7	15.8	15.6	l _
Carpets and rugs		65.0	65.3	66.7	67.2	-	54.3	54.8	55.4	56.1	l –
Yam and thread mills		85.4	85.6	83.0	82.4	_	75.4	75.7	73.1	72.6	l –
Yarn spinning mills	2281	62.2	62.4	60.3	59.9	_	55.4	55.6	53.5	53.1	_
Throwing and winding mills	2282	16.2	16.2	16.3	16.1	- 1	13.8	13.8	14.0	13.8	_
Miscellaneous textile goods	229	54.0	53.8	54.8	54.2	-	42.0	41.8	42.3	41.5	-
Apparel and other textile products	23	814.1	805.9	753.0	739.1	730.2	663.1	654.3	603.3	590.8	583
Men's and boys' suits and coats	231	29.1	29.3	26.6	26.9	- :	23.6	23.7	21.2	21.5	! -
Men's and boys' furnishings	232	200.8	199.6	181.8	175.9	-	169.9	168.9	152.8	147.6	l –
Men's and boys' shirts		40.6	40.4	35.4	32.9	_	35.0	34.9	30.5	28.3	-
Men's and boys' trousers and slacks		68.3	67.9	64.5	63.3	- 1	59.1	58.6	55.5	54.5	_
Men's and boys' work clothing		29.7	30.4	27.8	27.5	-	25.4	26.3	24.0	23.7	_
Women's and misses' outerwear		249.8	245.2	223.1	219.1	-	202.4	197.1	175.2	171.2	_
Women's and misses' blouses and shirts	2331	22.2	21.8	19.8	19.1	_	17.1	16.6	14.8	14.1	_
				35.9	35.4	_ :	30.9	30.2	27.5	27.0	_
Women's, juniors', and misses' dresses	2335	39.7	39.0	33.9	33.4		30.91	30.21	27.51	2/.01	_
Women's, juniors', and misses' dresses	2335 2337	25.8	25.2	22.9	22.3	_	20.2	19.6	17.2	16.8	_

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1987		A	II employe	es			Produ	uction work	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec 1998
ondurable goods—Continued											
Apparel and other textile products—Continued	Į		1	}		1					1
Women's and children's undergarments	234	34.0	33.6	30.9	30.7	_	26.7	26.5	24.5	24.6	_
Women's and children's underwear		24.7	24.5	22.4	22.4		19.9	19.7	17.8	17.9	
Brassieres, girdles, and allied garments		9.3	9.1	8.5	8.3	_ :	6.8	6.8	6.7	6.7	_
Girls' and children's outerwear		29.3	28.9	24.7	24.1	_	24.1	23.7	19.9	19.5	_
Girls' and children's dresses and blouses		11.7	11.4	9.4	9.3		10.1	9.7	8.0	8.1	_
Misc. apparel and accessories		33.9	33.1	31.2	30.7		26.9	26.3	24.2	23.9	_
Misc. fabricated textile products	230	220.0	219.0	217.7	214.8	{ _	176.0	174.6	172.1	169.2	_
Curtains and draperies	2301	18.6	18.6	17.9	17.0	_	14.5	14.3	14.0	13.2	_
House furnishings, nec		56.6	56.6	57.6	57.0	_	47.9	47.7	48.7	48.1	_
Automotive and apparel trimmings		61.2	61.0	61.4	61.1	_	48.3	48.0	47.4	47.0	_
Paper and allied products	200	606.6	607.1	676 5	6744	6743	500 5	524.2	5140	510.4	540
Paper and allied products	20	686.6	687.1	676.5	674.1	674.2	523.5	524.3	514.2	512.4	513
Paper mills		157.2	157.4	152.0	152.5	, - i	122.2	122.2	119.2	119.7	-
Paperboard mills		49.6	49.8	49.6	49.4	-	38.5	38.5	37.9	37.8	-
Paperboard containers and boxes		220.9	220.9	217.1	216.5	-	171.1	171.2	168.0	167.7	-
Corrugated and solid fiber boxes		133.7	133.9	131.6	131.4	-	100.2	100.4	98.0	98.1	-
Sanitary food containers		17.1	16.7	16.5	16.3	-	15.3	15.0	14.8	14.7	_
Folding paperboard boxes		47.5	47.6	46.5	46.5	-	38.2	38.4	37.7	37.7	-
Misc. converted paper products		247.3	247.3	246.2	244.2	-	182.4	183.1	179.9	178.0	-
Paper, coated and laminated, nec		47.4	47.8	47.9	47.5	-	24.5	25.7	23.6	23.1	-
Bags: plastics, laminated, and coated Envelopes		40.8 25.8	40.6 25.9	39.9 24.9	39.8 25.0	_	32.1 20.1	31.9 20.3	31.2 19.3	31.1 19.3	_
·		20.0		24.5	20.0			- 1	, 5.5	15.0	_
Printing and publishing		1,564.6	1,571.2	1,566.4	1,571.0	1,572.9	853.3	858.3	841.9	843.6	84
Newspapers		445.1	445.7	443.3	445.3	-	149.3	149.7	146.8	148.3	-
Periodicals	272	136.4	137.8	139.1	140.0	1 - 1	47.1	47.2	44.3	45.1	-
Books		127.3	129.1	125.7	126.4	-	65.5	67.2	58.6	58.4	-
Book publishing	2731	89.0	89.4	87.3	87.6	- 1	35.1	35.7	28.6	28.0	-
Book printing	2732	38.3	39.7	38.4	38.8	- 1	30.4	31.5	30.0	30.4	_
Miscellaneous publishing		89.6	89.7	91.9	92.8	1 - 1	42.3	42.8	43.8	44.4	-
Commercial printing		577.0	579.4	579.4	580.0	- 1	413.0	414.6	413.5	413.6	_
Commercial printing, lithographic		375.6	377.3	378.7	379.6	- 1	268.2	269.3	270.7	271.1	_
Commercial printing, nec		181.3	181.9	181.5	181.0	- 1	128.8	129.3	127.8	127.3	_
Manifold business forms		42.9	43.0	42.7	42.3	1 - 1	30.4	30.6	29.3	28.8	_
Blankbooks and bookbinding		66.7	67.3	65.6	65.6	- 1	50.5	51.1	49.9	49.6	_
Printing trade services	279	49.6	49.3	49.2	49.1	-	33.4	33.4	33.0	32.9	-
Chemicals and allied products	28	1,034.0	1,034.3	1,034.1	1,032.3	1,033.6	576.1	577.8	580.6	579.3	582
Industrial inorganic chemicals		116.5	116.0	114.1	113.0	-	59.2	59.7	63.5	63.3	_
Industrial inorganic chemicals, nec	2819	70.4	70.0	68.8	68.5	-	35.4	35.4	35.9	36.1	_
Plastics materials and synthetics	282	157.0	157.0	152.1	150.8	1 - 1	104.6	104.6	99.3	98.5	_
Plastics materials and resins		80.2	80.4	79.9	79.2	-	49.7	49.9	48.0	47.6	-
Organic fibers, noncellulosic	2824	45.1	44.9	42.3	41.7	[-	35.5	35.4	33.3	32.9	-
Drugs	283	268.4	268.7	275.4	277.4	1 - 1	120.8	121.1	124.6	125.5	-
Pharmaceutical preparations		212.5	212.6	218.6	220.1	-	97.1	97.3	101.3	101.5	_
Soap, cleaners, and toilet goods		158.4	158.3	158.1	157.0	-	97.5	97.6	98.2	96.9	_
Soap and other detergents		42.5	42.5	41.4	41.6	- 1	22.5	22.5	23.4	23.1	-
Polishing, sanitation, and finishing preparations		40.3	40.4	41.7	41.7	-	22.7	22.8	23.5	23.3	-
Toilet preparations	2844	75.6	75.4	75.0	73.7	-	52.3	52.3	51.3	50.5	_
Paints and allied products	285	51.7	51.5	52.4	52.1	- 1	27.4	27.4	27.5	27.4	_
Industrial organic chemicals	286	137.2	137.4	136.9	136.9	-	78.9	79.3	79.4	79.3	_
Cyclic crudes and intermediates	2865	23.2	23.3	23.0	22,9	-	14.0	14.0	13.9	13.8	-
industrial organic chemicals, nec	2869	111.5	111.6	111.5	111.6	~	63.1	63.5	63.7	63.7	-
Agricultural chemicals	287	50.6	50.9	50.9	50.8	-	30,7	30.8	30.6	30.6	_
Miscellaneous chemical products	289	94.2	94.5	94.2	94.3	-	57.0	57.3	57.5	57.8	-
Petroleum and coal products	29	139.4	136.6	136.5	135.3	133.3	91.8	89.2	91.0	90.0	8
Petroleum refining	291	95.8	96.1	91.9	91.6	_	62.5	62.8	60.2	60.0	_
Asphalt paving and roofing materials	295	29.2	26.0	30.1	29.1	-	21.6	18.6	22.8	21.9	_
Subbar and miss, plactice products	30	1 000 8	1 002 7	1.006.4	1 007 4	1,000.2	776 5	777 0	7000	704 4	70
Rubber and misc. plastics products	304	1,000.8	1,002.7	1,006.4	1,007.4	1,009.2	776.5	777.8	780.6	781.4	78
Tires and inner tubes		76.3	77.2	77.7	77.7	-	56.3	56.0	57.1	57.9	-
		7.3	7.1	6.0	5.9	-	5.8	5.7	4.3	4.3	_
Hose, belting, gaskets, and packing		70.5	70.5	71.3	71.4	-	54.2	54.5	54.7	54.7	-
Rubber and plastics hose and belting		28.4	28.6	29.8	30.0	-	22.1	22.4	23.3	23.4	-
Fabricated rubber products, nec	1306	112.3	113.0	110.8	111.0	, - ·	85.8	86.6	84.9	85.1	-
Miscellaneous plastics products, nec		734.4	734.9	740.6	741.4	1 - 1	574.4	575.0	579.6	579.4	-

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

(In thousands)

	1987		A	il employe	es		<u> </u>	Prod	uction wor	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998
Finance, insurance, and real estate—Continued											
Insurance	63,64	2,279	2,289	2,349	2,355	2,362	-	-	-	-	-
Insurance carriers	63	1,549.9	1,556.1	1,601.6	1,604.2	1,609.0	1,142.8	1,153.6	1,219.3	1,219.8	-
Life insurance	. 631	521.3	524.3	530.1	529.4	-	341.1	344.5	356.1	354.4	-
Medical service and health insurance		343.0	345.3	359.2	360.7 296.3	_	278.2 231.5	279.9 232.9	288.7 241.5	289.6 242.2	_
Hospital and medical service plansFire, marine, and casualty insurance	633	280.9	282.9 541.5	295.1 551.6	551.5	l <u>-</u>	407.6	412.8	443.9	443.9	_
Title insurance		73.9	74.1	86.0	87.4	_		-	-	-	-
Insurance agents, brokers, and service	64	729.1	732.7	747.8	751.0	753.3	-	-	- ,	_	-
Real estate	65	1,416	1,406	1,471	1,464	1,462	-	_	- ,	-	-
Real estate operators and lessors	651	575.1	576.3	586.1	587.1	-		-	-		· -
Real estate agents and managers		692.3	685.8	722.3	717.0	-	-	-	-	- '	-
Subdividers and developers	655	114.3	109.5	121.8	119.2	_	- 1	-	-	_	-
Services		36,647	36,647	38,136	38,042	37,990	32,035	32,010	33,265	33,153	33,07
Agricultural services	07	693.0	636.9	755.9	736.7	687.4	585.1	530.6	640.5	622.6	-
Veterinary services	074	183.6	183.4	192.0	192.5	-	154.6	154.1	162.0	162.6	-
Landscape and horticultural services	078	459.0	404.1	512.5	493.3	-	388.7	335.4	435.8	417.9	_
Hotels and other lodging places	70	1,687.2	1,677.9	1,778.9	1,711.8	1,700.9				-	-
Hotels and motels	701	1,645.8	1,638.5	1,731.2	1,668.4	-	1,445.9	1,439.1	1,518.7	1,458.8	-
Personal services	72	1,155.5	1,159.9	1,148.4	1,151.1	1,165.2	- 391.2	- 391.4	- 386.8	- 388.6	-
Laundry, cleaning, and garment services		444.5 79.8	444.2 72.2	439.4 55.1	441.5 55.0		391.2	391.4	380.8	300.0	_
Photographic studios, portrait		395.7	397.8	404.0	407.6	- :	352.2	353.6	356.0	359.2	
Funeral service and crematories		97.8	98.0	100.6	100.4	_ ;		-	-	-	- 1
Miscellaneous personal services		121.8	131.9	134.2	131.8	- '	100.6	109.2	111.4	109.4	-
Business services	73	8,342.3	8,359.6	8,838.0	8,836.1	8,829.0	7,424.4	7,433.2	7,826.6	7,819.6	-
Advertising	731	259.0	261.7	271.8	273.0	-	188.3	189.1	195.3	196.1	-
Advertising agencies	7311	170.5	170.6	177.2	177.4	-	_	_	_	_	_
Credit reporting and collection		136.8	137.3 314.0	138.8 318.0	140.3 320.3	_	_ :	_	_	l <u>-</u>	_
Photocopying and duplicating services		77.4	77.1	79.6	79.9	-	65.4	65.1	67.2	67.1	-
Services to buildings		948.1	948.8	989.8	989.8	988.7	845.3	846.6	884.8	883.0	- 1
Disinfecting and pest control services	7342	89.0	88.8	97.0	96.4	-	71.1	71.4	78.7	78.0	-
Building maintenance services, nec	7349	859.1	860.0	892.8	893.4	-	774.2	775.2	806.1	805.0	-
Miscellaneous equipment rental and leasing	735	255.1	253.8	266.6	263.6 40.5	=	203.9	202.3 31.4	212.0 29.8	209.4 30.5	-
Medical equipment rental	7352	41.7 45.2	42.0 44.9	40.2 48.6	48.0	<u>-</u>	38.4	38.0	41.3	40.7	_
Equipment rental and leasing, nec	7359	168.2	166.9	177.8	175.1	_	134.2	132.9	140.9	138.2	_
Personnel supply services	736	3,180.7	3,169.0	3,313.8	3,291.4	3,262.1		-	-	-	-
Employment agencies	7361	335.1	339.8	344.0	346.1	-			l		-
Help supply services	.}7363	2,845.6	2,829.2	2,969.8	2,945.3	2,911.0	2,776.4	2,756.4	2,871.9	2,849.0	-
Computer and data processing services	737	1,475.7	1,496.6 343.2	1,658.5 382.1	1,678.2 383.8	1,694.2	1,175.1 288.9	1,193.4 292.8	1,329.0 326.9	1,346.0	-
Computer programming services		241.5	245.8	277.9	280.4	-	200.9	292.0	320.9	320.2	1]
Computer integrated systems design		169.1	170.4	189.9	191.5	_	118.3	119.5	137.1	139.3	_
Data processing and preparation		257.5	261.0	279.2	284.6	-	-	-	-	-	-
Information retrieval services		84.8	85.3	96.5	97.7	-	60.6	60.5	71.7	73.2	-
Computer maintenance and repair		58.1	58.6	58.8	59.0	-	39.9	40.1	43.0	43.1	-
Miscellaneous business services		1,773.7	1,778.4	1,880.7 625.2	1,879.5	_	1,545.0	1,549.3 546.0	1,637.4 576.0	1,634.7	_
Detective and armored car services		591.3	591.7 61.4	59.5	621.7 59.5] _	545.8 52.3	52.2	48.7	572.1 48.6	
Photofinishing laboratories		82.5	82.1	85.3	86.3	-	-	-	-	-	-
Auto repair, services, and parking	.]75	1,135.8	1,138.3	1,171.0	1,171.3	1,171.4	929.8	930.4	946.7	947.0	_
Automotive rentals, without drivers	. 751	200.0	200.5	210.9	210.6	-	164.1	164.2	172.7	172.1	-
Passenger car rental	7514	133.0	133.7	140.5	139.9	-	110.2	110.7	116.0	115.1	-
Automobile parking	. 752	73.7	74.7	77.4	76.9	-	64.2	65.2	67.4	67.1	-
Automotive repair shops		626.7	625.4	641.5	642.3	-	501.0	498.4	500.5	501.3	-
	. 7532,4	218.8	219.6	225.0	226.8	i –	178.9	179.1	183.0	184.2	_
Automotive and tire repair shops		266.5	267.0	271.6	270.8	1 –	211.4	210.9	203.9	203.2	ł

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1987		Al	employee	es			Produ	ction work	cers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Nondurable goods—Continued											
Leather and leather products	31	88.4	87.2	80.0	79.1	77.5	67.0	65.9	59.7	59.1	57.6
Leather tanning and finishing	311	12.8	13.0	11.9	11.6	- 1	10.6	10.7	9.7	9.4	_
Footwear, except rubber	314	39.0	37.8	33.9	33.6 18.5	_	31.1 16.7	30.3 16.6	27.2 14.2	27.0 14.3	-
Men's footwear, except athletic	3143	21.2	21.† 10.0	18.5 8.6	8.6	_	8.0	7.8	6.9	6.9	_
Luggage	316	10.4	10.6	9.7	9.6		7.7	7.6	6.7	6.8	_
Handbags and personal leather goods	317	9.4	9.3	8.8	8.7	-	5.6	5.4	5.0	4.9	-
Fransportation and public utilities		6,498	6,508	6,643	6,651	6,692	5,416	5,417	5,523	5,531	5,560
Transportation		4,188	4,196	4,295	4,297	4,333	-	-	-	-	-
Railroad transportation	40 4011	229.1 203.0	229.1 202.9	235.5 208.2	234.9 207.7	234.3 -	- -	-	-	-	-
Local and interurban passenger transit	41	467.5	469.6	484.4	483.6	484.2	428.1	431.2	443.8	442.4	-
Local and suburban transportation		232.3	233.8	238.8	239.1 31.4	-	210.9	212.7	216.3	216.5	_
Taxicabs		30.9 21.1	31.2 21.2	31.0 23.1	23.6	-	19.0	19.2	20.6	21.2	_
Intercity and rural bus transportationSchool buses		149.1	149.8	157.6	156.3	- !	-	-	-	- 1	-
Trucking and warehousing	42	1.692.1	1,683.7	1,746.7	1,734.4	1,730.7	1,486.0	1,477.0	1,532.9	1,519.7	_
Trucking and courier services, except air	421	1,526.0	1,519.1	1,577.3	1,566.3		1,346.7	1,339.2	1,391.1	1,378.5	-
Public warehousing and storage	422	160.6	159.0	164.5	163.1	-	134.4	132.B	137.4	136.7	-
Water transportation	44	177.5	173.9	193.8	190.5	186.7	- :	-	-	- [-
Water transportation of freight, nec	444	14.5	14.3	15.3	15.5	-		_		- !	-
Water transportation services	449	119.6	117.2	131.4	129.3	-	105.7	102.7	116.4	114.4	-
Transportation by air	45	1,165.8	1,183.4	1,165.8	1,184.6	1,228.4	-	-	-	-	-
Air transportation, scheduled	451	999.6	1,014.9	986.5	1,006.1 531.3	-	_	_	-	_ 1	_
Air transportation, scheduled		516.5 123	519.4 125	532.0 134	133	-	_	_	-	-	_
Pipelines, except natural gas	46	14.2	14.1	14.2	14.1	14.1	11.5	11.5	11.6	11.5	_
Transportation services	. 47	442.1	441.8	454.8	454.9	454.3	361.6	361.3	372.9	372.7	
Passenger transportation arrangement	. 472	213.9	212.7	219.4	217.4	- !	178.5	178.2	185.3	183.0	-
Travel agencies	4724	170.4	169.5	174.1	172.7	-	142.5	142.1	146.9	145.5	-
Freight transportation arrangement	473	179.2	180.5	185.7	188.0	_	141.9	142.4	146.2	148.5	_
Communications and public utilities	1	2,310	2,312	2,348	2,354	2,359	-	-	-	-	-
Communications		1,452.6	1,455.0	1,499.6	1,503.3	1,507.6	1,089.5 724.5	1,083.8 719.5	1,096.5 727.1	1,101.6 731.7	_
Telephone communications	481	1,000.0	1,002.9	1,030.5 867.8	1,033.1 871.6		597.2	593.3	603.3	608.0	_
Radio and television broadcasting	483	245.2	244.6	247.8	246.4	_	204.2	203.3	202.7	201.6	_
Radio broadcasting stations	. 4832	117.1	117.1	118.6	120.1	-	_	-	-	-	_
Television broadcasting stations	. 4833	128.1 176.6	127.5 176.6	129.2 187.4	126.3 189.8	-	- 146.8	147.2	152.2	- 153.8	-
	1	857.3	856.5	848.6	851.1	851.4	681.3	680.8	681.8	685.1	_
Electric, gas, and sanitary services Electric services	491	364.0	363.6	360.1	361.2	- 051.4	290.9	291.0	292.1	293.7	_
Gas production and distribution		139.8	139.7	137.1	138.5	-	107.8	107.9	106.4	107.4	-
Combination utility services	. 493	159.0	159.1	155.5	155.4	-	122.8	122.8	122.4	122.9	- 1
Sanitary services	. 495	162.1	161.7	163.2	163.4	-	134.2	133.6	135.0	135.4	-
Wholesale trade	\cdot	6,724	6,731	6,889	6,887	6,882	5,406	5,405	5,526	5,519	5,509
Durable goods	. 50	3,987	4,000	4,097	4,101	4,103	3,158	3,162	3,233	3,232	-
Motor vehicles, parts, and supplies		512.7	514.7	521.0	523.1	_	414.7	414.6	413.5	414.5	i -
Automobiles and other motor vehicles	. 5012	145.2 289.7	146.4 290.6	150.9	152.4 290.2		1 -] [=	_] _
Makes rehisle arredice and - err marks		. ZD9./	1 290.0	. 209.4	. 250.2						
Motor vehicle supplies and new parts	502		1617			١ _	128 4	128.7	1346	134.9	1 -
Motor vehicle supplies and new parts Furniture and home furnishings Furniture	.] 502	160.6 77.1	161.7 77.8	167.2 81.7	168.2 82.3	-	128.4	128.7	134.6	134.9	

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

(In thousands)

	1987		A	l employe	es	·		Prod	uction wor	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Wholesale trade—Continued							;	:			
Durable goods—Continued	į	İ	Ì			·					
Lumber and other construction materials	503	260.1	258.0	274.1	274.2	-	215.6	213.5	227.5	227.8	_
Lumber, plywood, and millwork	5031	132.7	132.3	139.7	140.2	-	- :	-	-	-	_
Construction materials, nec		38.7	38.4	40.5	40.8				7007	700.0	_
Professional and commercial equipment		877.7	882.2	923.9	929.4 216.6	_	685.5	686.4	720.7	723.2	_
Office equipment	5044	203.0	204.8 350.9	215.4 369.5	371.9	_	_				_
Computers, peripherals and software Medical and hospital equipment	5043	183.6	184.3	193.3	194.3	_ :	148.4	148.8	155.8	156.8	_
Metals and minerals, except petroleum		148.4	148.8	152.7	152.2	_ `	120.1	120.5	123.1	122.7	_
Electrical goods		548.6	552.6	557.5	557.0	-	403.8	406.7	405.2	405.9	_
Electrical apparatus and equipment		228.9	230.4	234.2	234.5	_	_	-	-		_
Electrical appliances, television and radio sets		49.7	50.1	50.5	50.5	- '	-	-	- !	-	~
Electronic parts and equipment	5065	270.0	272.1	272.8	272.0	-	-	-	- 1	-	~
Hardware, plumbing, and heating equipment	507	300.4	300.9	303.7	302.9	-	244.1	244.8	247.8	246.7	~
Hardware	5072	107.0	107.5	109.3	109.2		-	-	-	-	-
Plumbing and hydronic heating supplies	5074	118.5	118.9	118.5	118.4	- '	-	- '] '	-	-
Machinery, equipment, and supplies	508	825.0	826.3	836.0	836.0	-	659.7	659.6	667.4	666.8	-
Construction and mining machinery	5082	90.1	90.2	92.6	93.0		-	-	-	-	-
Farm and garden machinery	5083	120.4	120.4	122.7	121.4		-	- 1	-	-	_
Industrial machinery and equipment	5084	334.6	335.7	337.0	337.3	-	- 1	-		-	-
Industrial supplies		154.7	154.8	157.3	157.0	-	206.5	2076	292.9	290 7	-
Misc. wholesale trade durable goods	509	353.8	354.8	360.4	357.6	_	286.5	287.6	292.9	289.7	_
Scrap and waste materials	5093	134.0	134.0	130.7	129.7	_	_	_ '	1 -	_	_
Nondurable goods		2,737	2,731	2,792	2,786	2,779	2,248	2,243	2,293	2,287	-
Paper and paper products		264.5	266.8	270.9	271.7	- ,	220.9	223.0	226.7	227.3	-
Stationery and office supplies		153.8	155.8	157.7	160.4	-	179.2	1006	181.5	181.2	_
Drugs, proprietaries, and sundries	512	215.6	217.3	217.5	217.5	_	184.4	180.6 180.8	188.7	189.0	_
Apparel, piece goods, and notions		227.9 906.8	223.0 905.8	231.0 918.5	231.6 920.0	_	764.3	763.7	771.2	772.5	_
Groceries and related products		289.6	289.9	288.1	287.5	_	704.3	700.7	,,,,,,	772.5	_
Groceries, general line Meats and meat products		55.6	56.0	56.2	56.6	_	_	_	-		_
Fresh fruits and vegetables		100.1	97.4	101.6	101.2	_	_ :			_	_
Farm-product raw materials		110.5	107.4	116.2	110.4	-	89.0	86.4	95.7	90.1	_
Chemicals and allied products		150.3	150.4	150.9	151.3	_	109.7	109.4	109.9	110.0	_
Petroleum and petroleum products		156.7	158.2	158.0	158.5	_ 1	129.7	131.1	130.4	130.7	_
Petroleum bulk stations and terminals		64.3	65.3	66.9	67.0	-	-	-	-	-	-
Petroleum products, nec		92.4	92.9	91.1	91.5	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	153.9	154.2	156.2	156.6	_	124.2	124.6	126.4	126.9	_
Beer and ale	5181	98.5	98.4	100.3	100.1	_	-	-	- 1	-	-
Wine and distilled beverages		55.4	55.8	55.9	56.5	- :				-	-
Misc. wholesale trade nondurable goods	519	551.1	548.2	572.7	568.7	-	446.2	443.4	462.3	459.2	_
Farm supplies	5191	164.4	162.1	172.2	167.8	-	-	-	-	-	-
Retail trade		22,562	22,906	22,653	23,005	23,383	19,891	20,222	19,873	20,221	20,556
Building materials and garden supplies	52	938.6	934.9	986.9	982.3	983.3	778.9	776.0	819.1	814.7	-
Lumber and other building materials		568.8	565.4	601.9	598.5	l -	479.8	476.7	508.0	504.6	-
Paint, glass, and wallpaper stores	523	69.3	69.4	70.4	70.1	-	53.7	54.1	53.6	52.7	-
Hardware stores		164.3	165.2	166.0	166.8	-	135.4	136.2	136.9	138.1	-
Retail nurseries and garden stores	526	91.6	90.4	98.2	97.2	_	75.2	74.4	80.8	80.1	-
General merchandise stores	53	2,972.3	3,072.8	2,858.9	3,037.8	3,159.4	2,772.9	2,869.9	2,664.0	2,841.2	-
Department stores		2,624.1	2,693.7	2,525.6	2,686.9	2,784.0	2,471.9	2,539.8	2,378.0	2,537.9	-
Variety stores		147.5 200.7	161.6 217.5	141.5 191.8	148.1 202.8	_	125.8 175.2	138.2 191.9	120.7 165.3	127.4 175.9	_
•		200.7	1			[·		į		_
Food stores	54	3,551.7	3,581.3	3,561.4	3,592.8	3,623.9	3,229.3	3,257.0	3,222.3	3,253.6	-
Grocery stores	541	3,108.9	3,116.6		3,116.2	-	2,847.0	2,853.7	2,829.2	2,844.3	-
Meat and fish markets		51.1	56.4	49.2	56.7	-	-	-	1 -	-	_
Dairy products stores		14.3	14.8	13.9	13.1	, –	100.5		100 5		-
Retail bakeries	546	217.6	222.5	230.1	233.1	-	190.5	194.5	199.8	202.9	_
Automotive dealers and service stations	55	2,325.9	2,317.8	2,375.8	2,367.2	2,365.5	1,940.3	1,933.7	1,969.1	1,960.6	-
New and used car dealers	551	1,055.5	1,051.9	1,070.2	1,069.0	1,070.5	886.4	882.8	897.0	897.1	_

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1987		Al	l employee	es			Produ	ction work	kers ¹	<u> </u>
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Retail trade—Continued											
Automotive dealers and service stations—Continued								}	- 1	1	
Auto and home supply stores	553	403.7	402.9	418.5	418.6	-	315.6	314.1	316.8	316.8	_
Gasoline service stations	554	670.7	668.3	678.4	674.5	-	582.4	581.9	588.5	583.2	-
Automotive dealers, nec	559	9.7	9.7	9.7	9.8	-	8.1	8.1	8.0	8.0	-
Apparel and accessory stores	56	1,155.2	1,206.9	1,096.7	1,154.0	1,204.0	970.1	1,020.2	914.5	972.4	-
Men's and boys' clothing stores	561	82.3	86.5	77.5	82.0	-	66.0	70.7	62.3	67.1	_
Women's clothing stores	562	289.7	301.3	268.4	278.5	-	240.8	252.2	221.9	231.7	_
Family clothing stores	565	385.3	407.3	357.9	391.8	-	345.7	367.3	318.9	352.5	-
Shoe stores	566	201.9	210.3	199.4	202.6	-	160.1	167.4	157.2	160.1	-
Furniture and home furnishings stores	57	1,052.9	1,081.4	1,078.7	1,107.7	1,137.0	870.7	896.4	888.6	916.8	-
Furniture and home furnishings stores	571	536.0	548.7	550.5	561.4	- '	438.9	449.4	448.9	459.0	-
Furniture stores	5712	310.7	316.1	324.3	328.3	_				-	-
Household appliance stores	572	71.3	72.7	68.7	70.1	-	57.9	59.2	55.9	57.0	-
Radio, television, and computer stores	573	445.6	460.0	459.5	476.2	-	373.9	387.8	383.8	400.8	-
Radio, television, and electronic stores	5731	197.9	203.9	202.2	209.5	-	166.2	170.7	169.2	176.6	_
Record and prerecorded tape stores	5735	84.3	90.2	87.2	95.6	-	70.7	78.1	73.7	82.1	-
Eating and drinking places	58	7,596.0	7,637.7	7,760.5	7,735.8	7,793.5	6,828.8	6,870.2	6,950.6	6,928.6	-
Miscellaneous retail establishments	59	2,969.7	3,073.0	2,934.4	3,026.9	3,115.9	2,500.1	2,598.1	2,444.7	2,533.2	_
Drug stores and proprietary stores	591	639.6	652.1	651.8	658.4	-	534.8	547.2	541.9	547.2	-
Liquor stores		113.3	115.2	113.2	114.1	-	-			-	_
Used merchandise stores	593	118.5	119.2	122.8	123.4	-	98.9	99.0	102.3	102.8	-
Miscellaneous shopping goods stores	594	1,088.9	1,162.1	1,025.2	1.086.8	-	927.8	998.0	858.4	918.5	_
Sporting goods and bicycle shops	5941	205.8	215.0	201.3	208.4	-	-	-	-	-	-
Book stores		138.2	147.1	134.1	136.8	j - :		- 1	-	- 1	_
Stationery stores	5943	91.1	92.6	94.8	95.9	- :	-	-	_	- 1	_
Jewelry stores	5944	151.5	161.5	146.2	152.5	- 1	-	-	_	_ 1	_
Gift, novelty, and souvenir shops	5947	239.3	251.1	237.0	248.5] _ [-	- 1	~	_]	
Sewing, needlework, and piece goods	5949	53.2	52.6 384.3	50.7 376.2	50.2 394.2	_	328.3	327.9	320.6	337.4	
Nonstore retailers	590	384.7 260.0	258.8	255.0	272.0	-	J20.5	527.5	520.0	357.7	_
Catalog and mail-order houses Merchandising machine operators	5060	68.2	68.3	68.7	69.2	1 -			_	_	_
Fuel dealers	508	99.9	101.4	97.2	99.5	Ì _	83.0	84.3	80.1	82.0	_
Retail stores, nec		524.8	538.7	548.0	550.5		434.7	447,4	449.7	452.5	_
Florists, tobacco stores, and newsstands			163.8	155.8	158.8	-			-		_
Optical goods stores	5995	69.6	69.6	76.4	75.5		57.5	57.1	61.2	60.0	_
Miscellaneous retail stores, nec	5999	303.0	305.3	315.8	316.2	-	247.3	249.9	257.2	258.5	-
inance, insurance, and real estate ³		7,151	7,173	7,407	7,417	7,445	5,223	5,241	5,434	5,435	5,45
Finance		3,456	3,478	3,587	3,598	3,621	-	-	-	-	-
Depository institutions	60	2,030.6	2,040.8	2,035.1	2.038.8	2,047.6	1,456.6	1.464.8	1,459.0	1,463.6	_
Commercial banks	602	1,461.9	1,467.3	1,450.7	1,453.2	1,459.9	1,034.0	1,038.7	1,025.3	1,028.7	-
State commercial banks		592.4	595.5	602.4	604.5	-	423.2	425.9	431.6	433.6	l –
National and commercial banks, nec		869.5	871.8	848.3	848.7	-	610.8	612.8	593.7	595.1	-
Savings institutions	603	259.6	262.4	263.2	263.3	264.3	[-	- :	-	-	-
Federal savings institutions	6035	144.3	146.5	145.4	145.3	-	-	- 1	-	. – 1	-
Savings institutions, except federal	6036	115.3	115.9	117.8	118.0	-	-		-	-	-
Credit unions	606	174.0	175.2	180.0	180.8	-	138.2	139.2	143.3	143.9	-
Nondepository institutions	61	579.6	586.2	638.3	646.4	654.2	404.8	407.7	435.1	441.1	-
Personal credit institutions	614	183.3	186.5	187.4	188.9	-	119.6	119.5	106.8	106.7	-
Business credit institutions		116.7	117.1	125.0	127.2		-	-	-	-	-
	616	258.6	261.4	303.7	307.8	312.8	-	} -	-	-	_
Mortgage bankers and brokers			618.8	665.2	662.1	666.3	-	- 1	-	-	-
Mortgage bankers and brokers Security and commodity brokers	62	615.0			1 4000		_	I -	! -	l	1 -
Mortgage bankers and brokers Security and commodity brokers Security brokers and dealers	62 621	615.0 456.9	458.9	487.4	483.8	} _	1 -		ı	l	
Mortgage bankers and brokers	. 621	456.9	458.9]	ļ	Ĭ -	}	1	1		}
Mortgage bankers and brokers	621	456.9 25.5	458.9 25.5	25.5	25.5	-	-	-		-	-
Mortgage bankers and brokers	621	456.9	458.9]	ļ	- -	- 88.3	_ 89.5	_ 102.4	103.0	 - -
Mortgage bankers and brokers	621 622,3 628	456.9 25.5	458.9 25.5	25.5	25.5	- - 252.6	- 88.3 -	_ 89.5 _	_ 102.4 _	_ 103.0 _	- - -

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

(In thousands)

	1987		A	ll employe	es			Prod	uction wor	kers'	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
iervices—Continued	}			}							
Auto repair, services, and parking-Continued	Ì	1		ŀ	1			l		1	
Automotive services, except repair	754	235.4	237.7	241.2	241.5	_	200.5	202.6	206.1	206.5	_
Carwashes		121.1	124.2	126.5	126.6	l –	106.9	109.5	112.1	112.2	-
Oal Wasnes	, 542	} '	'	120.0	1 .20.0		,,,,,,				
Miscellaneous repair services	76	379.5	379.4	391.4	390.8	392.3	311.1	311.1	320.7	319.7	-
Electrical repair shops	762	115.6	115.8	119.1	118.6	_	-	-	_	_	_
Electrical repair or ope		'''				1		!			
Motion pictures	78	553.4	567.8	556.3	556.5	567.8	462.2	475.2	462.9	463.4	_
Motion picture production and services	781	239.5	241.6	244.8	243.3	_	201.2	202.4	204.6	202.8	_
Motion picture theaters		125.4	132.2	124.4	125.6	_		_	_	_	_
Video tape rental	784	169.0	174.6	168.9	169.6	_	135.7	140.4	136.2	136.7	_
Video tape rental	1,04	100.0	1,7.0	100.0	100.0	1		''-''	1		
Amusement and recreation services	70	1,444.6	1,455.6	1,658.3	1,563.9	1,555.5	1,247.3	1,256.8	1,444.0	1,349.7	_
Bowling centers	703	84.3	84.4	82.9	82.9	1,555.5	75.3	75.4	73.8	74.1	_
Misc, amusement and recreation services	700	1,023.1	1,036.4	1,201.2	1,110.5	-	883.1	893.6	1,044.5	954.4	_
				184.3	184.8]	151.9	152.2	162.7	162.9	
Physical fitness facilities	7991	170.6	170.6						310.7	285.2	_
Membership sports and recreation clubs	/997	301.0	297.2	354.6	328.5	-	261.7	258.0	310./	200.2	_
		100		00.00	0.00.	0.070	0.000	0 700 0	0 000 0	اءججوا	
iealth services		9,815.9	9,844.8	9,948.3	9,964.1	9,978.4	8,699.1	8,723.3	8,809.3	8,817.5	_
Offices and clinics of medical doctors		1,770.2	1,785.3	1,842.3	1,847.2	1,852.8	1,453.1	1,467.8	1,515.3	1,516.9	-
Offices and clinics of dentists	802	631.1	635.8	648.9	651.7	-	551.1	554.9	565.0	567.5	_
Offices and clinics of other health practitioners		450.7	454.3	468.2	468.9] -	374.9	377.5	389.5	389.6	_
Offices and clinics of chiropractors and optometrists		168.3	168.4	169.5	169.3	- 1	-	_	l –	-	_
Nursing and personal care facilities		1.763.6	1,765.5	1,755.7	1,756.4	1,754.8	1,585.1	1,586.8	1,578.2	1,578.3	_
Skilled nursing care facilities	8051	1.338.0	1.339.7	1,332.6	1,333.8	_	_	_		_	_
Intermediate care facilities	8052	208.1	207.8	207.8	208.2	- 1	186.5	186.4	186.9	186.8	_
Nursing and parental services	0052	217.5	218.0	215.3	214.4		- 100.0	100.4			_
Nursing and personal care, nec			3.910.3	3.974.7	3.979.7	3,984.3	3,578.7	3,584.3	3.641.8	3,643.6	_
Hospitals	1000	3,902.2		3,662.1	3,665.8	- 0,904.0	3,576.7	3,364.5	3,041.0	0,040.0	_
General medical and surgical hospitals	8002	3,596.6	3,603.4					- 1	_	1 7 1	_
Psychiatric hospitals	8063	84.0	84.7	86.0	86.6		1		-	· ~ !	_
Specialty hospitals, excluding psychiatric		221.6	222.2	226.6	227.3	-	-	_		i - i	_
Medical and dental laboratories		199.2	199.4	202.8	203.3					امتما	_
Home health care services	808	719.3	714.7	667.3	666.3	665.6	662.9	658.5	615.3	614.2	-
egal services	81	957.2	962.5	989.7	993.0	996.2	763.0	767.5	789.7	793.0	_
Educational services	B2	2,325.5	2,273.3	2,385.9	2,422.0	2,371.2	_	_ :	_	_	_
Clamantory and accordary schools	921	653.9	655.3	682.0	687.5			:	_	_	_
Elementary and secondary schools	1021			1,420.4	1,449.5	_			_	l 🗀 l	_
Colleges and universities	822	1,400.8	1,351.1			4	_	_	1 -	, - j	_
Vocational schools	824	86.7	85.4	88.9	92.3	-	-	- 1	-	-	_
N 1 1	00	0.500.5	0.507.4	0.000.7	2 602 0	2 602 4	2 224 6	2 225 2	22124	2,323.7	
Social services	100	2,562.5	2,567.4	2,668.7	2,682.9	2,693.1	2,221.6	2,225.2	2,313.4	629.2	_
individual and family services	832	688.5	689.5	718.5	724.3	-	596.6	597.2	624.5		_
Job training and related services	833	355.3	355.9	377.3	379.0		305.4	305.4	328.0	328.1	-
Child day care services		585.7	583.2	598.3	601.4	600.8	520.1	517.1	528.7	531.5	_
Residential care		728.5	734.9	759.4	762.3	766.2	631.8	638.4	657.7	660.4	-
Social services, nec	839	204.5	203.9	215.2	215.9	-	167.7	167.1	174.5	174.5	-
Nuseums and botanical and zoological gardens	84	88.4	88.5	93.1	90.9	91.7	-	_	-	-	-
Acceleration and the second and the	00	0 000 0	22400	0.007.4	2 265 5	2 270 6		l	1		
Membership organizations	1004	2,233.8	2,242.9	2,267.1	2,265.5	2,270.6	l ~	-	-	-	-
Business associations		108.0	108.1	110.7	110.1	-	1 70	1 7	1	1 71	_
Professional organizations		59.8	59.9	62.5	62.9	-	43.1	43.1	45.2	45.5	_
Labor organizations		142.0	145.0	141.8	141.1	-	~	-	1 -	-	_
Civic and social associations	864	432.2	436.2	448.9	448.8	-	-	-] -	-	_
	07	0.077	0.007.1	0.000.0	2 200 -	2 20- 5	00400	0.050.0	05040	125425	
Engineering and management services	87	3,077.4	3,097.4	3,288.0	3,306.7	3,321.5	2,343.2	2,358.2	2,504.3	2,519.5	-
Engineering and architectural services	{871	885.5	889.7	929.4	930.2	931.2	727.8	731.1	764.0	764.6	~
Engineering services	8711	680.2	683.3	708.8	708.5	-	565.3	568.0	589.5	589.3	-
Architectural services	8712	148.6	149.9	160.5	161.0	-	116.1	117.1	125.6	125.8	_
Surveying services		56.7	56.5	60.1	60.7	-	46.4	46.0	48.9	49.5	_
Accounting, auditing, and bookkeeping		610.3	612.9	643.4	647.1	-	425.3	425.0	452.5	456.5	_
, rocco, and, accounty, and bookhooping	15	1 2,5.5	1	}		j				1	

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(in thousands)

	1987		A	l employe	98			Produ	action work	kers ¹	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 19989	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec 1998
services—Continued	ļ										
Engineering and management services—Continued	l						1		1		i
	873	607.3	608.4	637.0	638.6	_	463.9	464.7	487.6	488.9	_
Research and testing services		229.5	229.7	238.4	238.5		159.0	158.8	164.4	164.9	_
Commercial physical research	0731					-	115.9	115.9	125.1	125.4	
Commercial nonphysical research	8/32	140.1	139.8	150.1	150.4	-					_
Noncommercial research organizations	8733	143.4	144.4	150.2	152.1	. -	112.3	113.1	117.7	119.2	_
Management and public relations		974.3	986.4	1,078.2	1,090.8	1,094.2	726.2	737.4	800.2	809.5	_
Management services		324.0	325.7	363.5	365.5	-	237.4	239.7	271.2	272.1	_
Management consulting services	8742	348.4	354.7	395.8	400.1	-	261.3	265.2	291.1	293.5	_
Public relations services	8743	40.6	41.0	44.8	45.6	-	27.4	27.6	29.7	30.8	-
Services, nec	89	51.3	51.5	53.2	54.6	54.4	40.6	40.7	41.8	42.7	-
overnment	İ	20,096	20,046	20,254	20,448	20,401	-	-	-	_	_
Federal Government ⁴		2,679	2,720	2.694	2,705	2,723	_	_	_	_	_
	Į.			· ·	2,, 50	2,,,20					
Executive, by agency4	ì	2,617.5	2,659.1	2,632.4	-	-	- 1	-	-	-	i -
Department of Defense		681.8	679.0	655.1	_	-	_	-		-	-
Postal Service ⁵		867.7	917.0	870.8	- 1	1 -	_	-	-	_	-
Other executive agencies		1,068.0	1,063.1	1,106.5	-	-	-	- '	-	_	l –
Legislative	}	31.1	30.9	30.1	_	-	-		-	_	-
Judicial		30.0	30.1	31.1	-	-	-	-	-	-	-
Federal Government, except Postal Service		1,810.9	1,803.1	1,822.8	1,816.3	1,804.8	-	- '	-	-	-
Federal Government, by industry:		}				Ì					
Manufacturing activities	ł	48.5	48.1	47.2	46.7	-	- 1	-	-	_	-
Ship building and repairing	3731	21.8	21.8	22.0	21.7		~	_	-	-	-
Transportation and public utilities, except Postal	1					1		i		ï	l
Service	ł	12.9	12.7	12.1	12.2	-		-	-	_	-
Services		359.0	358.4	352.0	349.5	- 1	- 1	_	- !	_	- ا
Hospitals		221.6	222.2	217.9	217.7	-	-	-	-	-	-
State government	}	4,749	4,691	4.788	4,810	4,789	_	-		_	_
Construction	1	86.4	86.5	86.8	86.8	1 -	1 - 1	_	- 1	-	-
Transportation and public utilities		52.2	51.8	52.0	51.8	-	_	_	_	-	- ا
Services		2,797.9	2,745.1	2,798.2	2.826.7	1 _			_	_	l –
Hospitals		366.3	364.9	364.6	365.1		_	_	_	_	_
Education	182	2,082.1	2.032.2	2,076.4	2,104.6	2.084.8	i _ '		_	l _	۱ _
		205.9	205.6	208.7	210.2	2,004.0	_ '	_	_		١ _
Social servicesServices, except hospitals, education,		ľ		1		_	-				
and social services	· 	143.6	142.4	148.5	146.8	-	_	-	_	_	-
legislative, and judicial functions	.1	1.812.0	1,807.4	1,850.5	1,844.8	1 -		_	-	_	-
State government, except education		2,666.4	2,658.6	2,711.1	2,705.5	2,704.6	-	-	-	-	-
	ļ	40.000	40.00-	40770	40.000	40.000]			_	1
Local government		12,668	12,635	12,772	12,933	12,889	~	-	ı -	l .	ı -
Transportation and public utilities	· [453.7	455.0	453.4	453.4	-	-	_	-	-	I -
Services		8,468.1	8,443.0	8,525.6	8,653.3	-	-	-	-	-	-
Hospitals	. 806	643.0	644.7	657.3	657.7	1	-	-	_	-	ı –
Education		7,330.2	7,309.2		7,491.9	7,485.9	1 -	-	-	-	I -
Social services		139.8	139.8	142.4	142.4	-	- 1	-	-	1 -	l -
Services, except hospitals, education,	,	355.1	349.3	366.3	361.3		_			_	_
and social services	1	300.1	349.3	300.3	361.3		-	_	-	_	
General administration, including executive,	4										
General administration, including executive, legislative, and judicial functions	.1	3,746.0	3,737.1	3,793.0	3,826.4	-	-	! -	-	-	I -

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

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

⁵ Includes rural mail carriers.

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.

S Excludes nonoffice commissioned real estate sales agents.
 Prepared by the Office of Personnel Management. Data relate to civilian

Data not available.

p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision.

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

(In thousands)

Industry	Sept. 1997	Oct. 1997	Aug. 1998	Sept. 1998	Oct. 1998
Total	59,623	60,316	60,128	61,093	61,686
Total private	48,873	49,159	50,015	50,086	50,290
cods-producing	6,769	6,779	6,786	6,780	6,734
Mining	82	83	83	82	81
Construction	650	651	692	688	688
Manufacturing	6,037	6,045	6,011	6,010	5,965
Durchia goods	2.932	2,950	2,956	2.952	2,942
Durable goods	139	140	145	146	146
Lumber and wood products	160	161	166	166	167
Furniture and fixtures	106	106	108	107	107
Stone, clay, and glass products	103	103	105	105	104
Primary metal industries	329	331	336	337	337
Fabricated metal products				469	469
Industrial machinery and equipment	475	478	473		687
Electronic and other electrical equipment	703	707	695	695	
Transportation equipment	394	396	403	404	405
Instruments and related products	352	353	354	353	352
Miscellaneous manfacturing	173	174	170	171	169
Nondurable goods	3.105	3,095	3,055	3.058	3,023
Cond and kindred products	588	575	590	595	574
Food and kindred products	14	14	13	13	14
Tobacco products	• •	284	275	277	274
Textile mill products	286	1		560	548
Apparel and other textile products	607	606	559		
Paper and allied products	168	168	167	166	165
Printing and publishing	700	703	708	705	707
Chemicals and allied products	330	331	335	333	332
Petroleum and coal products	25	25	24	24	24
Rubber and misc. plastics products	341	343	342	344	343
Leather and leather products	47	47	43	42	43
ervice-producing	52,854	53,537	53,342	54,313	54,952
Transportation and public utilities	1,953	1,958	1,953	2,002	2,019
Wholesale trade	2,064	2,081	2,094	2,100	2,115
Retail trade	11,637	11,697	11,934	11,933	11,962
Finance, insurance, and real estate	4,482	4,492	4,654	4,622	4,636
Services	21,968	22,152	22,594	22,649	22,824
	10.750	11 457	10,113	11,007	11.396
Government	10,750	11,157			
Federal	1,136	1,132	1,136	1,134	1,140
State	2,323	2,419	2,256	2,384	2,467
Local	7,291	7,606	6,721	7,489	7,789

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1997 forward are subject to revision.

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

(In thousands)

		Total			Mining			Construction	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p
Alebama	1,887.0	1,895.7	1,902.6	10.0	9.6	9.6	97.5	101.9	101.6
Birmingham	468.7	476.6	478.9	3.1	3.0	3.0	27.9	29.8	29.5
Huntsville	176.1	175.6	176.6	(1)	(1)	(1)	6.0	6.3	6.3
Mobile	222.0	225.5	226.5	[(1)]	(1)	[[1]	16.5	17.1	17.1
Montgomery Tuscaloosa		158.5 82.9	159.7 83.8	(1) 2.7	(1)	(¹) 2.6	8.0 5.7	8.2 6.4	8.2 6.4
Alaska Anchorage	262.3 125.0	274.9 129.5	268.0 128.7	10.0 2.5	11.0 2.7	10.4 2.6	12.4 6.5	14.7 7.6	12.9 6.9
Arizona	2.037.6	2,101.0	2,131.9	14.2	13.1	13.1	133.1	142.3	142.7
Phoenix-Mesa	1,432.3 320.6	1,481.2 326.5	1,508.1 329.9	6.7 2.4	5.9 2.3	5.9 2.3	95.9 19.8	103.4 21.3	103.9 21.4
Arkenses		1,136.9	1,138.1	3.6	3.6	3.6	48.2	51.4	50.4
Fayetteville-Springdale-Rogers		142.7	143.3	(1)	(¹)	(¹)	5.7	5.6	5.5
Fort Smith		97.0	96.9	9]	. 8	.18	4.1	4.4	4.4
Little Rock-North Little Rock Pine Bluft	307.6 36.0	307.6 36.2	309.4 36.3	{i}	(†)	{i}	14.2 .9	15.0 1.0	14.9 1.0
California	13,463.9	13,753.1	13,824.8	29.5	28.1	28.0	581.9	641.9	636.1
Bakersfield	182.8	183.1	184.0	10.9	10.3	10.2	8.5	8.4	8.3
Fresho	279.2	284.6	283.5	.5	.5	5	13.7	15.2	15.2
Los Angeles-Long Beach	3,941.2 136.2	4,010.7	4,031.4	(²)	(²)	(²)	112.7	117.3	116.5
Modesto		139.3 990.8	140.1 996.4	2.3	2.3	2.3	7.2 51.6	7.7 59.9	7.6 58.4
Orange County		1,296.9	1.302.5	2.3		9.9	61.4	67.4	67.3
Riverside-San Bernardino	864.0	896.2	905.5	1.1	1.1	1.1	54.0	60.9	60.6
Sacramento	635.7	644.7	650.2	.2	.2		34.9	37.7	37.6
Salinas		122.9	123.6	.1	.z .1	.2 .1	4.8		
San Diego	1,071.9	1,091.1	1,099.1	.4	.4		55.0	5.5 57.1	5.5
San Francisco		1,016.6	1,023.1	.6	.5	.4 .5	36.6	57.1 39.6	56.5 39.2
San Jose		959.0	959.7	.1	.5	.2	40.9	44.2	44.0
Santa Barbara-Santa Maria-Lompoc	154.0	156.3	157.5	1.1	.9	.9	6.7	7.0	7.1
Santa Rosa	168.8	172.9	173.3	.5	.5	.5	9.7	9.7	9.8
Stockton-Lodi		175.4	175.0	.1	.1	.1	7.9	8.7	8.4
Vallejo-Fairlield-Napa Ventura	154.3 247.7	160.0 254.5	160.1 257.2	.5 1.6	.6 1.4	.6 1.4	10.7 11.5	11.2 12.2	11.1 12.4
Colorado		2,065.6	2,075.5	14.2	13.8	13.8	119.7	135.9	133.0
Boulder-Longmont	165.0	166.2	166.3	/17	(1)	(¹)	6.1	7.0	6.9
Colorado Springs	220.4	226.9	228.3	1 (1)	1 (1)	115	12.1	13.2	12.9
Denver	1,074.1	1,106.3	1,110.6	` ′6.8	6.4	` ′6.3	62.3	71.4	70.1
Connecticut		1,665.0	1,675.9	.8 (2)	.8	.8	60.0	62.8	62.2
Bridgeport	186.6	185.4	186.0	[{ i }]	1 37	(7)	6.8	7.2	7.2
Danbury		88.4	89.0	58	\ \{\dagger{\} \}	\{\dagger{\} \}	3.7 20.4	4.0	3.9
Hartford	605.2 253.2	604.6 253.2	607.5 254.2	}i{	1 373	} }i{	9.4	19.9 9.6	20.1 9.4
New London-Norwich	138,1	139.7	139.9	{+}	1 11	}1{	4.6	4.9	4.9
Stamford-Norwalk		210.1	211.2	111	1 11	[}1{	6.0	6.0	5.8
Waterbury	89.1	89.2	89.8	(2)	(2)	{2 ∫	3.6	3.9	3.9
Delaware Dover	396.8 53.6	406.4 56.2	409.3 57.3	.1 .1	.1	.1 .1	22.9 2.4	24.0 2.5	24.1 2.5
Wilmington-Newark	309.7	316.7	319.8	.2	.2	2	17.7	18.2	18.6
District of Columbia	613.2 2,517.0	614.0 2,570.5	614.7 2,585.3	.1 1.1	.1 1.1	.1 1.2	8.5 128.0	8.5 137.4	8.4 136.6
Florida	6,573.8	6,730.0	6,804.5	6.6	7.0	7.0	341.9	355.4	356.0
Daytona Beach	152.3	155.0	156.2	(²)	(²)	(²)	7.8	7.9	7.9
Fort Lauderdale		651.5	658.5	.1	.1	.1	34.0	34.6	34.6
Fort Myers-Cape Coral		153.4	155.3	(2) (2)	(2)	(²)	12.9	12.9	13.1
Gainesville		116.6	117.4	(4)	(2)	(2)	4.4	4.5	4.6
Jacksonville	529.8	547.5	551.4	(2)	(2)	(2)	28.6	28.8	28.9
Lakeland-Winter Haven		174.1	176.3	2.9	3.1	3.1	8.4	8.3	8.3
Melbourne-Titusville-Palm Bay		182.4	183.5	(²)	(²)	(²)	9.2	9.8	9.9
Miami	975.9	985.B	997.8	.3	.3	.33	34.4	35.1	35.0
Oriando	814.4	843.5	852.0	(2) (2) (2)	(2)	(²)	44.7	47.3	48.1
Pensacola	153.3	157.3	157.8	(4)	(2)	(2)	11.0	11.2	11.3
Sarasota-Bradenton	262.3	273.8	279.3	(2) (2)	(2) (2)	(2) (2)	13.0	13.5	13.5
		1500	151.7	1 / 2 \	141	1 /2\	5.9	5.7	5.6
Tallahassee	149.1	150.9		(~)					
Tallahassee Tampa-St. Petersburg-Clearwater West Palm Beach-Boca Raton	1,091.8	1,127.5 458.3	1,138.3 468.6	(²) .4	(²).4	(2).4	52.8 26.1	55.5 27.3	55.5 27.2

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

(In thousands)

		Manufacturing	3	Tr.	ansportation a		Whole	sale and reta	l trade
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novembe 1998 ^p
Alabema	380.3	372.2	370.9	91.0	92.1	91.8	435.8	437.4	443.
Birmingham		49.7	50.1	30.1	30.7	30.8	113.5	116.6	117.
Huntsville	. 40.7	39.4	39.0	3.7	3.3	3.3	35.8	35.9	36.
Mobile	. 27.7	28.0	27.9	13.2	13.6	13.6	59.2	59.3	60.
Montgomery	17.6	17.8 12.4	17.7 12.5	6.3 2.5	6.6 2.6	6.6 2.6	37.7 19.2	37.0 18.9	38. 19.
Alaska Anchorage		13.1 2.0	10.9 1.9	23.2 12.2	25.2 12.9	24.1 12.8	55.0 30.9	56.0 31.3	56. 31.
Arizona	1	216.7	216.1	97.0	101.2	102.1	497.0	502.9	514.
Phoenix-Mesa Tucson	. 165.2	168.8 29.6	168.7 29.5	72.3 13.2	76.4 13.5	77.1 13.6	351.3 70.0	355.8 70.8	365. 72.
Arkansas		253.9	253.8	67.5	68.7	68.9	256.4	256.7	259.
Fayetteville-Springdale-Rogers		33.6	33.7	9.5	9.8	9.9	40.7	40.6	41.
Fort Smith		27.1	26.9	6.7	6.4	6.4	20.1	19.8	19.
Little Rock-North Little Rock Pine Bluff		32.9 8.4	32.8 8.4	21.4 1.9	21.6 1.9	21.6 1.8	71.3 7.4	71.1 7.1	72. 7.
Celifornia		1,947.3	1,939.5	679.7	688.5	690.1	3,146.9	3,148.9	3,204.
Bakersfield		10.6	10.5	10.2	10.8	10.7	43.5	42.5	43
Fresno		32.0	30.3	14.6	14.8	14.8	69.0	68.5	69
Los Angeles-Long Beach		680.6	681.1	214.8	219.5	220.0	877.0	879.4	892
Modesto		27.2	26.8	5.7	6.1	6.2	35.2	35.1	35
Oakland		120.8	120.1	61.6	61.9	63.0	220.1	219.4	223
Orange County		234.3	234.8	46.2	48.6	48.7	315.5	321.0	326
Riverside-San Bernardino		114.1	114.2	44.4	46.5	46.8	224.1	227.8	233
Sacramento		46.6	46.2	25.6	26.1	26.2	141.3	139.7	143
Salinas		8.8	8.9	6.0	5.9	5.9	32.1	32.6	33
San Diego		124.0	124.3	42.2 80.3	41.9	42.2	246.8	248.9 209.2	253
San Francisco		76.9 253.2	76.4	28.4	79.7 29.0	80.0 29.0	212.6 191.4	190.4	213 193
San Jose		17.0	251.1 16.9	5.9	5.9	6.0	36.9	37.2	37
Santa Barbara-Santa Maria-Lompoc		26.5	26.2	6.4	6.4	- 6.5	42.3	43.4	43
Santa Rosa		25.3	24.3	10.8	11.5	11.3	41.7	41.7	42
Stockton-Lodi Vallejo-Fairfield-Napa		19.3	19.2	6.2	6.5	6.4	40.4	40.7	41
Ventura		34.2	34.0	9.8	10.1	10.2	60.9	61.1	62
olorado		207.3	207.7	122.8	126.7	126.5	491.7	503.6	511
Boulder-Longmont		32.9	32.9	3.9	4.1	4.0	36.4	36.1	36
Colorado Springs		27.3	27.8	11.9	12.1	12.1	49.6	51.5	52
Denver		93.9	94.0	85.8	88.7	88.8	262.0	269.9	273
onnecticut		276.7	276.6	76.1	76.8	77.0	365.6	362.4	368
Bridgeport		39.5	39.4	7.2	7.1	7.1	42.0	41.9	42
Danbury		18.4	18.4	2.6 27.3	2.8 27.6	2.8 27.8	22.9 126.7	22.2 124.5	126
Hartford		94.6	94.4	16.3	16.6		53.7	53.3	54
New Haven-Meriden		38.9 24.0	39.2 24.1	6.4	6.6	16.7 6.6	28.8	28.7	29
New London-Norwich		26.6	26.5	10.1	10.1	10.0	47.2	47.2	48
Stamford-Norwalk Waterbury		18.9	18.7	3.6	3.5	3.5	19.2	19.0	19
)elaware		59.2	59.4	15.8	16.3	16.3	87.2	88.7	89
Dover Wilmington-Newark		6.3 45.1	6.3 45.2	1.9 14.0	2.1 14.2	2.1 14.3	12.8 63.2	13.3 63.6	13 64
District of Columbia Washington PMSA	12.7 99.9	12.9 102.0	12.9 102.1	17.4 112.6	16.7 113.9	16.6 114.1	49.3 482.2	48.6 477.3	49 487
-lorida		490.0	491.2	331.1	342.4	344.4	1,695.0	1,698.7	1,743
Daytona Beach		14.8	14.9	4.3	4.6	4.7	43.1	43.3	44
Fort Lauderdale		40.4	40.4	31.1	31.3	31.6	182.2	182.3	187
Fort Myers-Cape Coral		7.0	6.9	7.0	7.0	7.1	43.7	43.2	44
Gainesville		5.1	5.1	2.5	2.7	2.7	24.7	25.3	2
Jacksonville		39.1	39.1	36.7	37.3	37.6	131.6	133.7	138
Lakeland-Winter Haven		20.4	20.7	8.8	9.1	9.1	49.2	50.5	52
Melbourne-Titusville-Palm Bay		28.6	28.8	5.3	5.7	5.7	42.4	42.9	4:
Miami		72.6	72.5	84.2	85.7	86.5	260.7	260.1	260
Orlando		53.7	54.1	41.5	43.0	43.2	204.9	208.5	212
Pensacola		10.7	10.7	7.2	7.8	7.8	38.8	41.0	41
Sarasota-Bradenton		21.8	22.0	5.3	5.5	5.5	61.5	61.6	64
Tallahassee		5.0	5.0	4.2	4.4	4.4	30.5	30.2	30
Tampa-St. Petersburg-Clearwater West Palm Beach-Boca Raton	. 88.0 . 31.5	87.5 31.3	87.5 32.2	49.3 16.7	51.4 17.0	51.8 17.3	265.9 115.9	264.5 115.9	27 12

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

(In thousands)

		nance, insurar and real estat			Services			Government	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novemb 1998 ^p
Nabama	84.6	87.1	87.2	435.9	442.5	443.8	351.9	352.9	353
Birmingham		36.3	36.3	139.4	141.2	141.8	69.3	69.3	69
Huntsville		4.7	4.7	46.4	48.3	49.1	38.8	37.7	37
Mobile		10.1	10.1	60.5	61.7	61.8	34.9	35.7	35
Montgomery		9.4	9.5	41.7	42.3	42.3	37.0	37.2	37
Tuscaloosa	2.5	2.6	2.7	14.0	14.6	14.4	22.9	22.8	22
Alaska Anchorage		12.5 7.3	12.3 7.3	64.3 35.3	67.6 36.6	66.6 36.4	74.2 28.6	74.8 29.1	74 29
		(1				}]
Arizona		136.1	136.3	614.1	638.1	644.6	340.3	350.6	362
Phoenix-Mesa		117.3 12.8	117.5 12.8	448.2 100.2	465.7 102.0	472.3 102.6	183.0 74.4	187.9 74.2	197 75
	i	ļ		0500					i
rkansasFayetteville-Springdale-Rogers		44.1 5.0	44.1 5.0	258.0 27.1	266.8 27.8	265.3 27.6	188.0 20.0	191.7 20.3	192
Fort Smith		3.1	3.1	24.3	25.4	25.4	9.8	10.0	10
Little Rock-North Little Rock		17.0	17.0	90.2	90.2	90.7	59.6	59.8	60
Pine Bluff		1.3	1.3	8.5	8.6	8.6	7.9	7.9	7
			{	j i					2,234
California		787.7	788.7	4,133.7	4,293.1	4,303.7	2,190.9	2,217.6	
Bakersfield		7.5	7.5	43.0	43.6	43.7	49.9	49.4	49
Fresno		13.4	13.4	72.0	72.3	72.0	65.7	67.9	6
Los Angeles-Long Beach		225.0	225.7	1,289.8	1,324.7	1,327.7	546.9	558.7	562
Modesto		4.5	4.5	32.3	33.8	33.7	25.3	24.9	2
Oakland		55.7	55.9	287.5	295.8	297.2	172.7	175.0	17
Orange County_		96.6	95.5	375.9	388.6	388.1	137.9	139.5	140
Riverside-San Bernardino	30.6	31.6	31.8	226.9	235.7	237.8	175.6	178.5	179
Sacramento	42.1	43.7	43.8	174.5	180.0	181.7	170.4	170.7	17
Salinas		5.9	5.9	33.4	34.5	34.5	28.8	29.6	1 2
San Diego		62.5	62.6	344.3	358.1	359.0	197.6	198.2	200
San Francisco		106.2	106.1	366.3	378.4	380.3	127.1	126.1	126
San Jose		31.5	31.6	309.1	319.3	318.8	89.8	91.2	91
Santa Barbara-Santa Maria-Lompoc	7.4	7.5	7.6	47.3	48.9	49.2	31.7	31.9	32
Santa Rosa	9.5	9.9	10.0	48.3	49.7	49.6	26.3	26.8	27
Stockton-Lodi		8.5	8.6	43.1	44.1	44.4	35.7	35.5	35
Vallejo-Fairfield-Napa		6.4	6.4	40.7	43.4	42.6	31.2	31.9	32
Ventura		14.4	14.5	73.0	76.9	77,2	44.1	44.2	45
colorado	129.0	133.1	133.2	606.6	615.0	617.8	323.8	330.2	332
		5.6	5.7	53.1	52.6	52.7	27.2	27.9	27
Boulder-Longmont	1								
Colorado Springs		12.2	12.0	72.4	75.1	75.5	35.3	35.5	3
Denver	85.5	89.2	89.1	329.8	337.7	339.3	148.1	149.1	149
onnecticut	132.6	135.7	135.9	509.7	519.8	521.6	233.2	230.0	23:
Bridgeport	10.4	10.3	10.3	58.6	58.3	58.5	21.5	21.1	l 2 [.]
Danbury		5.1	5.1	24.8	25.5	25.4	10.5	10.4	10
Hartford		67.9	68.7	172.3	174.2	174.0	96.1	95.9	96
New Haven-Meriden		12.9	12.8	90.1	90.4	90.3	31.6	31.5] 3
				34.2	35.0	34.8			3
New London-Norwich		3.9	3.9				36.0	36.6	
Stamford-Norwalk		26.5	26.7	74.2	75.9	76.2	18.3	17.8	1
Waterbury	4.3	4.2	4.2	26.9	27.2	27.5	12.3	12.5	1
eleware		49.6	49.7	109.8	114.0	114.8	54.6	54.5	5
Dover		2.7	2.8	12.4	12.9	13.2	15.5	16.4	1 1
Wilmington-Newark	41.8	43.1	43.0	89.6	93.5	94.2	39.1	38.8	3
Vistrict of Columbia Washington PMSA	28.3	28.8	28.8	268.4	274.5	274.2	228.5	223.9	224
Transington FMSA	133.9	135.5	135.3	964.7	1,005.6	1,008.6	594.6	597.7	600
lorida		431.5	433.5	2,318.0	2,421.2	2,438.0	967.7	983.8	99
Daytona Beach		6.6	6.6	52.4	53.6	53.9	23.8	24.2	2
Fort Lauderdale	45.8	46.7	46.9	222.5	230.8	232.0	84.6	85.3	8:
Fort Myers-Cape Coral	9.1	9.2	9.3	47.3	47.7	48.0	25.4	26.3	1 2
Gainesville		5.4	5.4	33.1	34.3	34.2	39.7	39.3	l 3
Jacksonville		55.4	55.7	173.1	183.8	184.2	68.6	69.0	l ĕ
Lakeland-Winter Haven		8.3	8.3	47.1	48.5	48.7	25.7	25.9	2
Melbourne-Titusville-Palm Bay		6.0	6.0	63.9	63.9	63.9	25.1	25.5	2
Miami	68.3	67.4	67.8	315.7	324.8	326.6	137.7	139.8	14
Orlando		48.9	49.2	336.4	352.4	354.9	86.3	89.3	l 8
Pensacola		6.5	6.5	49.9	50.9	51.0	29.1	28.9	2
Sarasota-Bradenton		11.9	12.0	125.7	135.9	138.1			
							24.2	23.5	2
Tallahassee	5.7	5.8	5.8	38.6	39.8	39.7	58.9	59.8	6
Tampa-St. Petersburg-Clearwater		81.5 31.4	81.5 31.4	423.2 174.5	449.5 180.5	452.1 184.5	134.7 54.8	137.2	13

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

(in thousands)

		Total			Mining		{	Construction	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p
							475.7	1054	405.5
Georgia		3,777.5	3,806.8	8.1	8.7	, 8.8	175.7	185.1	185.5
Albany		60.4	60.7	(²)	(²)	(²)	3.8	3.9	3.8
Athens	. 73.5	75.2	75.8	}	(1)	(1)	2.6	2.6	2.5
Atlanta		2,054.7	2,069.8	1.6	1.7	1.7	98.5	103.4	103.4
Augusta-Aiken		196.5	197.7	.4	.4	.4	11.1	11.3	11.4
Columbus		117.7	118.8	(1)	(¹)	(1)	5.3	5.5	5.5
		152.6	153.0	` 1.2	` ′1.3	` 1.3	6.3	6.8	6.8
Macon		134.4	136.0	(1)	(1)	(1)	7.6	7.7	8.1
łewali		523.3	526.9	(1)	(1) (1)	(!)	22.6	20.6	20.3
Honolulu	406.0	395.6	398.2	(1)	(')	(')	17.4	15.8	15.5
daho		530.0	529.1	(1, 3.0	3.1 (1)	3.1 (1)	33.3	34.4 13.4	33.5 13.4
Boise City	. 199.1	202.4	203.4	(1)	()	(')	13.7		1
llinois		5,935.4	5,943.9	11.9	11.6	11.4	250.1	260.0	252.1
Bloomington-Normal		83.6	83.9	(1) (1)	(1)	(2)	2.7	2.9	2.8
Champaign-Urbana		100.2	100.7	(1)	(1)	(1)	3.3	3.5	3.4
Chicago		4,144.1	4,155.0	` 1.7	1.8	1.8	167.1	173.1	168.6
Davenport-Moline-Rock Island		183.4	184.1	(1)	(1)	(1)	10.2	10.4	10.1
Decatur		57,6	57.8	1 715	715	\$ - }15	3.7	4.1	4.0
			43.9	1) 1 (111	1)1(2.1	2.2	2.1
Kankakee		43.4		1 12	1 57	1 \};}			
Peoria-Pekin		174.7	174.7	(2)	(;)	{ (;)	8.7	8.5	8.2
Rockford	180.0	178.6	176.7	(')	(!)	(,)	7.1	7.1	7.0
Springfield	. 114.3	113.6	114.0	(1)	(1)	(,)	5.3	5.3	5.1
ndiana		2,920.7	2,921.4	6.8	6.7	6.7	145.5	146,1	142.8
Bloomington	. 67.2	66.4	66.8	(1)	(1)	(¹)	3.3	3.2	3.2
Elkhart-Ğoshen	116.7	118.1	118.5	(1)	(1)	(1)	4.9	5.0	5.0
Evansville-Henderson		155.3	155.2	` 1.4	` 1.3	` 1.3	10.0	10.3	10.4
Fort Wayne		272.1	272.2	/11	(1)	(1)	13.4	14.6	14.2
	1	268.0	268.6	(1)	(1)	[[1]	17.8	17.4	17.8
Gary			863.8	`′,в	.8	l `′.a	48.2	51.1	50.6
Indianapolis		859.7		.18	.1.	1 ,1, .0			
Kokomo	53.4	54.6	54.8			1 17	2.3	2.7	2.7
Lafayette		96.6	96.8	(1)	(1)	(!)	3.9	4.2	4.1
Muncie	} 61.6	60.8	61.6	(1)	(!)	(!)	2.3	2.3	2.2
South Bend	134.7	137.1	137.1	(1)	(1)	(1)	7.7	7.1	7.0
Terre Haute	. 69.7	69.2	69.1	.2	.3	.3	3.4	3.7	3.3
owa	. 1,434.3	1,459.5	1,462.0	2.2	2.2	2.1	63.3	67.1	64.7
Cedar Rapids	. 115.9	114.9	115.8	(1)	(1)	[(¹)	6.1	6.2	6.3
Des Moines	. 272.4	274.2	276.2	(1)	(1)	(1)	12.4	13.0	12.6
Dubuque		52.3	52.8	(1)	(1)	(1)	2.0	2.1	2.0
lowa City		66.7	67.6	711	115	1 715	2.2	2.7	2.7
		66.5	66.4	1 }1()1([}1{	4.2	4.2	4.0
Sioux City Waterloo-Cedar Falls		74.3	74.7	(1)	(1)	(1)	2.8	2.9	2.8
Kansas	1,296.4	1,320,9	1,328.8	8.3	7.9	7.9	60.4	64.3	63.0
Lawrence		49.3	50.1	(1)	111	(1)	2.1	2.2	2.3
			100.5	(1)	(1)	{1} '	4.7	5.0	5.0
Topeka		100.1 285.7	286.4	1.4	1.4	1.4	14.4	14.7	14.5
Centucky	1,745.2	1,770.7	1,776.8	22.7	22.1	22.3	84.6	90.4	88.4
Lexington		283.9	284.7	.3	.2	.2	13.3	13.9	13.8
Louisville		575.3	578.9	.5	.6	6.	30.2	31.8	31.6
				.3		.8			
Owensboro	. 43.9	44.6	44.9	.3	.3	.3	3.5	3.7	3.8
ouisiene		1,895.0	1,901.5	55.6	53.4	53.3	117.7	125.7	126.0
Alexandria		55.4	55.7	.1	.1	.1	3.3	3.5	3.5
Baton Rouge	287.1	296.2	296.8	.9	1.0	1.0	31.7	35.4	35.0
Houma	76.4	77.7	77.6	7.6	6.8	6.8	3.7	3.9	3.9
Lafayette		166.9	168.1	15.8	15.4	15.4	10.0	10.7	10.7
Lake Charles		86.2	86.2	1.3	1.3	1.3	10.4	10.3	10.1
Monroe		69.0	69.1	.2	.2	1.3	3.6	3.5	3.5
New Orleans		622.4	624.4	15.4	15.6	15.6	30.9	31.8	32.2
Shreveport-Bossier City	172.5	176.7	176.6	2.5	26	2.6	9.7	10.9	10.6
) Een n	579.9	579.5	.1	.1	.1	26.3	28.0	27.5
Maine				ا `` .و ،	, 9				
Maine Lewiston-Auburn Portland	43.6	43.4 142.1	43.7 143.6	(²) (²)	(²) (²)	(²) (²)	1.9 7.1	1.7 8.2	1.1 7.4

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

(In thousands)

Olah asab		Manufacturing) 	Tr	ansportation a public utilities	ınd	Whole	sale and reta	l trade
State and area	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998P	November 1997	October 1998	Novembe 1998 ^p
Pagaria.	E01.0	E04.4	595.0	206.0	045.7	245.0	045.0	040 5	001
Seorgia		594.4		236.8	245.7	245.9	945.3	942.5	961
Albany	9.2	8.6	8.7	3.0	3.2	3.2	14.5	14.3	14
Athens		11.7	11.8	1.8	1.8	1.8	18.4	18.7	19
Atlanta		221.6	221.9	168.4	174.3	174.5	537.9	537.2	547
Augusta-Aiken	40.9	41.8	41.9	6.7	6.6	6.7	43.4	43.3	43.
Columbus	21.6	20.9	20.8	4.0	4.1	4.1	27.2	27.4	28
Macon Savannah	20.6 18.2	20.3 18.8	20.2 18.6	5.3 9.9	5.4 9.6	5.4 9.5	35.4 34.1	33.6 34.2	34. 35.
lawaii		15.9	15.9	41.5	40.4	40.1	135.4	131.0	132
Honolulu	12.6	12.1	12.0	33.3	32.4	32.1	100.6	96.8	97.
daho Boise City		76.6 37.0	76.3 37.2	24.6 9.8	25.2 10.0	25.4 9.9	131.3 47.8	132.2 47.1	134. 47.
•									
linois		978.0	975.3	343.7	346.0	347.1	1,354.6	1,344.2	1,365
Bloomington-Normal		8.8	8.8	3.0	2.9	2.9	17.7	17.9	18
Champaign-Urbana		11.4	11.3	2.8	2.7	2.7	22.2	21.8	22
Chicago	661.8	662.4	661.6	254.4	254.1	255.0	939.3	928.6	943
Davenport-Moline-Rock Island		31.7	31.5	9.9	10.0	10.0	48.9	47.9	48
Decatur		13.5	13.6	5.0	5.0	5.0	12.7	12.5	1 72
Kankakee		8.0	8.2	2.1	2.1	2.2	11.3	11.0	1.
Peoria-Pekin		33.0	33.0	9.7	9.8	9.8	42.6	42.4	42
		53.4	51.5	9.8	9.7	9.7	38.1	37.2	
Rockford Springfield		4.5	4,5	4.8	4.8	4.8	24.7	24.4	37 24
diena	678.8	681.8	681.5	141.8	143.1	143.0	696.2	688.1	698
Bloomington	10.4	10.7	10.7	1.9	1.8	1.8	15.7	15.6	16
Elkhart-Goshen		59.5	59.8	2.9	2.8	2.8	22.4	22.5	22
Evansville-Henderson		31.7	31.8	7.0	7.1	7.1	39.1	38.2	38
Fort Wayne		73.4	73.6	13.0	12.7	12.7	66.0	65.3	65
Gary		49.4	48.9	15.3	15.5	15.3	64.7	64.6	65
Indianapolis	1 _ 1	126.9	126.6	51.3	52.6	52.6	222.3	220.1	223
		21.2	21.4	1.2	1.2	1.2	11.5	11.5	11
Kokomo				2.3	2.3		19.8		
Lafayette		22.1	22.1			2.3		19.5	20
Muncie		9.7	9.8	3.5	3.5	3.6	14.5	14.0	14
South Bend		23.0	22.9	5.5	5.8	5.6	34.2	34.1	34
Terre Haute	11.9	12.2	12.3	2.8	2.7	2.6	20.0	19.3	19
0-d Did-		260.0	260.3	66.7	69.6	69.6	352.7	352.0	355
Cedar Rapids		22.3	22.5	8.0	7.7	7.6	26.2	25.3	2
Des Moines	25.4	25.4	25.3	13.6	14.0	14.0	71.2	69.9	71
Dubuque		11.9	11.9	2.1	21	2.1	12.4	12.4	12
lowa City		4.9	5.0	2.2	2.2	2.2	[13.7	12.7	12
Sioux City		13.2	13.2	3.8	3.8	3.7	16.0	15.8	11
Waterioo-Cedar Falls	14.8	14.7	14.5	2.3	2.4	2.4	17.2	17.2	1
aneas Lawrence	208.4 5.3	212.4 5.3	212.6 5.3	72,9 1,4	75.2 1.3	75.4 1.3	317.2 12.4	323.1 12.2	320 12
Topeka	9.6	9.6	9.7	6.3	6.2		21.8	21.4	
Wichita	72.1	74.1	74.4	11.0	11.3	6.1 11.3	62.6	63.1	2 ⁻
entucky		316.2	315.0	100.4	103.3	103.7	422.6	420.6	42
Lexington	47.6	49.9	49.2	11.1	11.0	11.1	63.8	64.6	60
Louisville Owensboro	88.1 7.0	89.5 7.2	89.6 7.2	43.1 2.2	44.7 2.4	44.9 2.4	140.1 11.3	140.7 11.1	144 11
			{						
Alarandria	192.2	190.2	191.6	112.1	114.6	114.9	440.5	438.6	44
Alexandria		3.6	3.6	2.7	27	2.7	12.6	13.1	1:
Baton Rouge		24.8	25.2	12.4	13.1	13.2	68.1	70.0	7
Houma		8.0	7.8	8.0	8.7	8.8	17.6	17.7	1
Lafayette		14.8	15.0	10.2	10.3	10.4	42.5	42.8	4:
Lake Charles		11.7	11.7	4.5	4.5	4.4	18.5	18.8	19
Monroe	7.9	7.9	7.8	3.7	3.5	3.5	17.4	17.5	1
New Orleans		49.0	49.4	42.7	42.1	41.9	153.3	151.8	15
Shreveport-Bossier City		19.5	19.4	8,4	8.6	8.6	40.1	40.7	4
eine		87.0	87.5	23.6	24.3	24.1	145.3	146.3	14
Lewiston-Auburn		8.0	7.8	1.8	1.8	1.8	11.5	11.2	1 1
Portland	15.2	15.1	14.9	6.4	6.6	6.2	44.6	41,6	4

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

(In thousands)

1967 1968 1969 1967 1968 1968 1967 1968 1967 1968 1967 1968 1967 1968 1967 1968			nance, insurar and real estat			Services			Government	
Abbany	State and area									November 1998 ^p
Abbany	t-	1000	107.6	109.3	070.5	1 003 3	1 010 0	500 0	enn a	601
Alberns 22 22 15.6 15.3 15.2 21.1 22.9 Alberns 130.3 133.2 133.3		_ :								12
Adamsia (1903) 1332 1332 5977 6182 6219 2894 265.1 Aquista-Akon (6.1 5.9 5.8 45.5 46.9 47.4 AQU (0.3 40.3 40.3 40.3 40.3 40.3 40.3 40.3 4										
Application		· I								23
Second	Atlanta									265
Macon	Augusta-Aiken	6.1	5.9	5.8						40
Savannah	Columbus	8.1	8.7	8.7	30.1	30.8	30.9			20
Savannah	Macon	8.7	9.8	9.8	40.3	41.3	41.4	33.3	34.1	34
Indicate			4.3	4.3	39.1	39.0	39.3	20.8	20.8	20
Blose City										113 91
Billinois	iaho	25.8	26.8	26.7	122.5	125.9	124.6	101.9	105.8	105
Bloomington-Normal								30.6	31.9	32
Charage Char										825
Cheago	Bloomington-Normal									15
Chicago	Champaign-Urbana	3.7								35
Davenport-Moline-Rock Island 82 8.3 8.3 47.5 48.2 47.9 28.1 26.9			322.0	322.1						489
Decettr			8.3	8.3	47.5	48.2	47.9	28.1	26.9	2
Kankalee		1						6.8	6.6	
Peorial-Pekin 7-9 8.0 8.0 54.0 53.6 53.4 21.0 194 Rockford 7-6 7.5 7.4 46.4 46.3 45.9 17.4 17.4 17.4 Springfield 7-9 7.8 7.8 33.0 33.2 33.2 33.1 33.8 Stringfield 7-9 7.8 7.8 33.0 33.2 33.2 33.1 33.8 Stringfield 7-9 7.8 7.8 33.0 33.2 33.2 33.1 33.8 Stringfield 7-9 7.8 7.8 33.0 33.2 33.2 33.1 33.8 Stringfield 7-9 7.8 7.8 33.0 33.2 33.2 33.1 33.8 Stringfield 7-9 7-9 7-8 7.8 33.0 33.2 33.2 33.1 33.8 Stringfield 7-9 7										
Rockford										19
Springfield 7.9 7.8 7.8 33.0 33.2 33.1 33.6										1
Bloomington 2.1 2.2 2.2 11.9 11.9 21.6 21.0										3:
Eikhart-Goshen 3,1 3,3 3,3 17,9 18,0 18,1 6,9 7,0	diana	139.5	142.7	142.9	700.3	706.8	703.2			40!
Elkhart-Goshen 3.1 3.3 3.3 17.9 18.0 18.1 6.9 7.0 Exhansille-Henderson 7.4 7.8 7.8 7.8 43.7 43.8 43.2 15.1 15.1 Fort Wayne 14.8 14.5 14.4 62.2 63.1 62.9 27.6 28.5 Gary 9.4 9.4 71.9 73.5 73.5 37.1 38.2 Indianapolis 63.3 66.5 66.5 227.4 224.9 236.6 103.3 106.8 Kokomo 16.6 1.5 1.5 8.6 9.2 9.2 6.9 7.3 12.4 12.4 12.4 12.3 12.1 South Band 6.3 6.3 6.3 6.1 44.5 46.8 47.2 14.1 14.0 Exter Healte 2.3 2.3 2.3 2.3 2.3 16.8 16.6 16.7 12.3 12.1 South Band 6.3 6.3 6.1 44.5 46.8 47.2 14.1 14.0 Exter Haute 2.3 2.3 2.3 2.3 16.8 16.6 16.7 12.3 12.1 South Band 7.7 7.7 7.9 80.1 34.2 33.1 Dudque 17.7 18.0 19.0 19.1 24.2 25.2 12.1 12.1 12.1 12.1 12.1 12.2 14.1 14.0 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12	Bloomington	2.1	2.2	2.2	12.2	11.9	11.9	21.6	21.0	20
Evansville-Henderson 7,4 7,8 7,8 43,7 43,8 43,2 15,1 15,1 15,1 15,1 15,1 14,4 622 63,1 62,9 27,6 28,5 23,7 34,2 34,1 34,2 34,1 34,2 34,2 34,3 34,2 34,3 34,2 34,3 34	Elkhart-Goshen	3.1	3.3	3.3	17.9	18.0	18.1	6.9	7.0	
Fort Wayne	Evansville-Henderson	7.4	7.8	7.8	43.7	43.8	43.2	15.1	15.1	1 18
Gary			14.5	14.4	62.2	63.1	62.9	27.6	28.5	20
Indianapolis				9.4	71.9	73.5	73.5	37.1	38.2	i 34
Kokomo										106
Lafayette 3.9 4.3 4.3 19.3 19.0 19.1 24.2 25.2 1										1
Muncie 1.8 1.9 1.9 1.5 1.7 1.4 1.2 1.2 1.4 1.4 1.5 1		1								24
South Bend 6.3 6.3 6.1 44.5 46.8 47.2 14.1 14.0										1
Terre Haute 2.3 2.3 2.3 16.8 16.6 16.7 12.3 12.1 was 2.3 2.3 16.8 16.6 16.7 12.3 12.1 was 2.3 2.3 2.3 16.8 16.6 16.7 12.3 12.1 12.1 was 2.3 2.3 2.3 16.8 16.6 16.7 12.3 12.1 12.1 12.1 12.1 12.1 12.1 12.1										
Cedar Rapids 6.2 6.4 6.4 6.5 35.8 35.7 11.5 11.6 Des Moines 37.9 38.9 39.0 77.7 79.9 80.1 34.2 33.1 Dubuque 1.7 1.8 1.9 18.2 18.1 18.3 3.8 3.9 Iowa City 2.6 2.6 2.6 2.6 18.9 19.3 19.2 7.7 7.6 Waterloo-Cedar Falls 3.3 3.2 3.2 19.9 20.7 20.9 13.3 13.2 anses 60.8 60.8 60.9 324.5 331.6 333.9 243.9 245.6 12.1 11.4 12.1 12.2 14.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12</td></t<>										12
Cedar Rapids 6.2 6.4 6.4 35.8 35.7 35.7 11.5 11.6 Des Moines 37.9 38.9 39.0 77.7 79.9 80.1 34.2 33.1 Dubuque 1.7 1.8 1.9 18.2 18.1 18.3 3.8 3.9 Iowa City 2.6 2.6 2.6 2.6 18.9 19.3 19.2 7.7 7.6 Waterloo-Cedar Falls 3.3 3.2 3.2 19.9 20.7 20.9 13.3 13.2 aness 60.8 60.8 60.9 324.5 331.6 333.9 243.9 245.6 13.2 Lawrence 2.0 2.1 2.1 11.4 12.1 12.2 14.1	wa	80.3	82.2	82.2	370.9	383.0	383.0	241.0	243.4	244
Des Moines 37.9 38.9 39.0 77.7 79.9 80.1 34.2 33.1 Dubuque 1.7 1.8 1.9 18.2 18.1 18.3 3.8 3.9 Lowa City 2.6 2.6 2.6 2.6 18.9 19.3 19.2 7.7 7.6 Waterloo-Cedar Falls 3.3 3.2 3.2 19.9 20.7 20.9 13.3 13.2 Canses 60.8 60.8 60.9 324.5 331.6 333.9 243.9 245.6 Lawrence 2.0 2.1 2.1 11.4 12.1 12.2 14.1 14.1 Topeka 6.8 6.8 6.7 28.7 29.0 28.9 22.4 22.1 Wichita 11.0 11.3 11.3 74.1 75.3 75.1 34.3 34.5 Lewington 10.4 10.3 10.3 74.0 76.7 76.4 57.7 57.3 Louisville 22.1 29.5 29.6 160.4 188.1 167.6 69.6 70.4 Owensboro 1.7 1.8 1.8 10.6 10.8 10.7 7.3 7.3 Alexandria 2.2 2.3 2.3 15.8 16.2 13.6 14.0 Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 23.0 23.1 New Orleans 31.7 31.2 31.1 191.3 192.3 192.2 107.4 108.6 Lewiston-Auburn 2.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 15.4 13.5 13.6 5.0 Lewiston-Auburn 2.1 2.			6.4	6.4	35.8	35.4	35.7	11.5	11.6	11
Dubuque			38.9	39.0	77.7	79.9	80.1	34.2	33.1	33
lowa City			1.8	1.9	18.2	18.1	18.3	3.8	3.9	
Sioux City				2.1	14.4	14.1	14.6	28.9	28.0	2
Waterloo-Cedar Falls 3.3 3.2 3.2 19.9 20.7 20.9 13.3 13.2 snase 60.8 60.8 60.9 324.5 331.6 333.9 243.9 245.6 245.6 Lawrence 2.0 2.1 2.1 11.4 12.1 12.2 14.1 14.1 Topeka 6.8 6.8 6.8 6.7 28.7 29.0 28.9 22.4 22.1 Wichita 11.0 11.3 11.3 74.1 75.3 75.1 34.3 34.5 Intucky 70.5 71.2 71.1 431.5 447.4 445.5 296.8 299.5 Lexington 10.4 10.3 10.3 74.0 76.7 76.4 57.7 57.3 Louisville 29.1 29.5 29.6 160.4 168.1 167.6 69.6 70.4 Ownsboro 1.7 1.8 1.8 10.6 10.8 10.7 7.3 7.3										_
Lawrence 2.0 2.1 2.1 11.4 12.1 12.2 14.1 14.1 Topeka 6.8 6.8 6.8 6.7 28.7 29.0 28.9 22.4 22.1 Wichita 11.0 11.3 11.3 74.1 75.3 75.1 34.3 34.5 Intucky 70.5 71.2 71.1 431.5 447.4 445.5 296.8 299.5 Lexington 10.4 10.3 10.3 74.0 76.7 76.4 57.7 57.3 Louisville 29.1 29.5 29.6 160.4 168.1 167.6 69.6 70.4 Ownsboro 1.7 1.8 1.8 10.6 10.8 10.7 7.3 7.3 Interval 2.2 2.3 36.5 504.9 512.8 512.6 369.4 373.4 Alexandria 2.2 2.3 16.7 16.7 13.2 13.4 Hourna 2.4 2.3 2.3 15.8 16.3 16.2 13.6 14.0 Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>13.2</td> <td>1</td>									13.2	1
Topeka										24
Wichita 11.0 11.3 11.3 74.1 75.3 75.1 34.3 34.5 entucky 70.5 71.2 71.1 431.5 447.4 445.5 296.8 299.5 Lexington 10.4 10.3 10.3 74.0 76.7 76.4 57.7 57.3 Louisville 29.1 29.5 29.6 160.4 168.1 167.6 69.6 70.4 Owensboro 1.7 1.8 1.8 10.6 10.8 10.7 7.3 7.3 Alexandria 86.4 86.3 86.5 504.9 512.8 512.6 369.4 373.4 Alexandria 2.2 2.3 2.3 16.7 16.7 16.7 13.2 13.4 Baton Rouge 17.7 17.7 17.7 77.7 73.1 74.4 73.9 58.2 59.8 Houma 2.4 2.3 2.3 15.8 16.3 16.2 13.6 14.0 Lafa										1
Particle Particle	Topeka		6.8	6.7						2
Lexington 10.4 10.3 10.3 74.0 76.7 76.4 57.7 57.3 Louisville 29.1 29.5 29.6 160.4 168.1 167.6 69.6 70.4 Owensboro 1.7 1.8 1.8 10.6 10.8 10.7 7.3 7.3 vuisiana 86.4 86.3 86.5 504.9 512.8 512.6 369.4 373.4 Alexandria 2.2 2.3 2.3 16.7 16.7 16.7 13.2 13.4 Baton Rouge 17.7 17.7 17.7 73.1 74.4 73.9 58.2 59.8 Houma 2.4 2.3 2.3 15.8 16.3 16.2 13.6 14.0 Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 23.6 13.2 13.5 Monroe 4.9	Wichita	11.0	11.3	11.3	74.1	75.3	75.1	34.3	34.5	3
Louisville										30
Owensboro 1.7 1.8 1.8 10.6 10.8 10.7 7.3 7.3 sutsiana 86.4 86.3 86.5 504.9 512.8 512.6 369.4 373.4 Alexandria 2.2 2.3 2.3 16.7 16.7 16.7 13.2 13.4 Baton Rouge 17.7 17.7 17.7 73.1 74.4 73.9 58.2 59.8 Houma 2.4 2.3 2.3 15.8 16.3 16.2 13.6 14.0 Lafsyette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 23.6 13.2 13.5 Monroe 4.9 5.0 5.0 18.3 18.3 18.3 13.1 13.1 13.1 13.1 13.1 10.8 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 2.1 2										5
B6.4 B6.3 B6.5 504.9 512.8 512.6 369.4 373.4 Alexandria 2.2 2.3 2.3 16.7 16.7 16.7 13.2 13.4 Baton Rouge 17.7 17.7 17.7 73.1 74.4 73.9 58.2 59.8 Houma 2.4 2.3 2.3 15.8 16.3 16.2 13.6 14.0 Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 23.6 13.2 13.5 Monroe 4.9 5.0 5.0 18.3 18.3 13.1 13.1 New Orleans 31.7 31.2 31.1 191.3 192.3 193.2 107.4 108.6 Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 Selection-Auburn 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9										7
Alexandria 2.2 2.3 2.3 16.7 16.7 16.7 13.2 13.4 Baton Rouge 17.7 17.7 73.1 74.4 73.9 58.2 59.8 Houma 2.4 2.3 2.3 15.8 16.3 16.2 13.6 14.0 Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 23.6 13.2 13.5 Monroe 4.9 5.0 5.0 18.3 18.3 18.3 13.1 13.1 New Orleans 31.7 31.2 31.1 191.3 192.3 193.2 107.4 108.6 Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 aine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9			1.8	1.8		ŧ				
Baton Rouge 17.7 17.7 17.7 73.1 74.4 73.9 58.2 59.8 Houma 2.4 2.3 15.8 16.3 16.2 13.6 14.0 Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 23.6 13.2 13.5 Monroe 4.9 5.0 5.0 18.3 18.3 18.3 19.1 13.1 13.1 New Orleans 31.7 31.2 31.1 191.3 192.3 193.2 107.4 108.6 Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 sine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9		86.4 2.2								37 1
Houma										5
Lafayette 6.3 6.2 6.3 40.7 41.8 42.0 23.8 24.9 Lake Charles 2.6 2.5 2.5 24.1 23.6 13.2 13.5 Monroe 4.9 5.0 5.0 18.3 18.3 18.3 13.1 13.1 New Orleans 31.7 31.2 31.1 191.3 192.3 193.2 107.4 108.6 Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 aine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9										1
Lake Charles 2.6 2.5 2.5 24.1 23.6 23.6 13.2 13.5 Monroe 4.9 5.0 5.0 18.3 18.3 18.3 13.1 13.1 New Orleans 31.7 31.2 31.1 191.3 192.3 193.2 107.4 108.6 Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 aine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9										Ιż
Monroe 4.9 5.0 5.0 18.3 18.3 18.3 13.1 13.1 13.1 13.1 107.4 108.6 107.4 108.6 107.4 108.6										1
New Orleans 31.7 31.2 31.1 191.3 192.3 193.2 107.4 108.6 Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 eine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9										
Shreveport-Bossier City 6.6 6.6 6.6 52.9 54.6 54.6 33.0 33.2 aine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9										1 1
Baine 28.8 31.0 31.0 158.9 168.2 165.3 97.7 95.0 Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9										10
Lewiston-Auburn 2.1 2.3 2.3 13.4 13.5 13.6 5.0 4.9	Shreveport-Bossier City	6.6	6.6	6.6	52.9	54.6	54.6	33.0	33.2	3
										9
Portland			12.7	13.0	40.3	40.2	40.3	18.9	17.7	1

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

(In thousands)

		Total]	Mining			Construction	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998P
_									
laryland	2,288.7	2,321.7	2,334.1	1.3	1.3	1.3	141.7	142.7	141.
Baltimore PMSA	1,188.6	1,197.5	1,196.1	2		.1, .2	66.9	67.8	67.
Baltimore City	412.8 847.3	419.4 861.4	418.8 863.0	(3)	{i}	{3}	13.2 60.2	13.8 62.9	13. 62 .
Suburoan Maryland-D.C.	047.3	001.4	863.0	(')	(-)	(')	60.2	02.9	02.
lassachusetts	3,194.6	3,244.3	3,255.8	1.4	1.5	1.4	107.0	116.7	115.
Barnstable-Yarmouth	55.8	59.7	57.6	(1)	(¹)	(1)	2.6	2.7	2.
Boston	1,953.6	1,983.2	1,995.1	4	4	.4	59.7	66.8	66.
Brockton	98.3	99.1	100.0	(²)	(²)	(2)	3.6	3.7	3
Fitchburg-Leominster		53.7	53.7	(2)	(2)	(2)	1.9	2.0	2
Lawrence		150.7	151.3	[(1)	(1)	[(*)	6.2	6.5	6
Lowell	119.9 65.5	121.5 65.7	122.2 66.3	2	(2)	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5.0 2.4	5.2 2.4	5 2
Pittsfield	42.6	43.5	43.4	1 '-' .1	.1	l ' ⁻ '.1	1.8	1.8	1
Springfield	258.9	260.5	261.9	:i	.1	i i	8.1	8.1	7
Worcester	228.9	229.4	230.5	[.2]	.2	.2	7.7	7.8	7
ichigan	4,521.9	4,609.5	4,615.8	7.6	7.6	7.7	190.0	200.6	195
Ann Arbor	274.0 73.1	279.4 73.8	279.9 74.2	{ { } }	{ i }	{ } }	10.6 2.6	11.6 2.9	11
Benton Harbor Detroit	2,120.6	2,158.4	2,170.2	(·) .8	(')	9.	85.5	93.5	9
Flint	183.6	183.7	184.7	111 "	(1)	(1)	7.5	8.6	3
Grand Rapids-Muskegon-Holland		582.5	583.6	} }1	}1 }] }1{	25.0	27.7	27
Jackson	61.9	63.1	63.5	715	215	1 115	2.5	2.7	
Kalamazoo-Battle Creek	213.7	216.5	216.9	1 (1)	(1)	[(1)	8.7	9.4	g
Lansing-East Lansing	238.2	239.1	240.1	(!)	(1)	(1)	8.9	9.6	9
Saginaw-Bay City-Midland	182.8	186.5	185.9	(1)	(¹)	(1)	10.1	9.8	9
- -	0.500.5	0.500.0		ا ۔ ا			20.4	444.0	
innesota	2,538.5	2,590.0	2,594.5	7.9 4.9	8.1	7.9	99.4	111.3	100
Duluth-Superior Minneapolis-St. Paul	112.5 1,652.7	114.4 1,683.4	114.5 1,693.0	/2\4.9	(²)	/2\4.8	4.6 62.6	5.2 68.6	66
Rochester	74.8	77.2	77.1	[[3]	\1\frac{1}{1}	\ \i\ \	3.0	3.4	3
St. Cloud	86.9	87.7	88.4	1 (1)	\1\frac{1}{3}	\ \1\f	4.2	4.7	4
Nasiasippi	1,122.0	1,133.6	1,132.9	5.8	5.9	5.7	51.9	56.5	57
Jackson	222.6	228.6	228.2	(²)	(²)	(²)	11.4	12.3	12
lissouri	2,677.3	2,712.8	2,715.5	4.8	5.0	5.1	126.2	132.9	131
Kansas City	936.3	957.0	958.5	(1)	(¹)	(1)	48.3	52.2	50
St. Louis	1,307.1	1,318.1	1,324.5	(!)	(!)	(1)	68 .5	71.9	71
Springfield	163.4	165.6	165.9	(1)	(1)	(1)	6.5	6.7	6
lontena	372.0	376.6	374.8	5.5	5.5	5.4	19.8	19.9	18
ebraska	876.2	888.0	889.3	1.3	1.4	1.4	40.7	43.0	41
Lincoln	149.5	150.0	149.9	(1)	(1)	(1)	7.0	7,5	7
Omaha	408.8	419.2	419.6	(1)	(1)	(1)	19.4	21.2	21
	الميما	054.5		ا مدد ا	400	40.0			
evada	912.4	951.5 680.9	956.9 686.9	14.5	13.8 2.2	13.6	84.6 66.0	91.1 70.5	90
Las Vegas	647.8 180.5	184.4	184.3	.6	.5	2.2 .5	12.5	14.3	70
11010	100.0	104.4	104.0	"	.0	.~	12.0	14.0	'"
ew Hampshire		577.2	574.7	.5	.4	.4	21.9	22.9	22
Manchester	97.7	95.4	96.0	(1)	(!)	(;)	4.5	4.7	4
Nashua Portsmouth-Rochester	94.3 114.9	93.8 113.5	94.0		<u>}</u>	53	3.1 3.4	3.4 3.2	3
T ORDINGUIT I GORGOTO	,,	110.0	'''	` ′	` '	[` ′ i	0.4	J.2	Ĭ
ew Jersey	3,789.9	3,840.3	3,855.0	2.0	2.0	2.0	137.1	144.9	144
Atlantic-Cape May	177.4	183.0	179.2	(1)	(1)	(1)	8.0	7.4	
Bergen-Passaic		659.5	662.8	[(1)	(;)		23.2	24.9	24
Camden		490.3	494.1 248.1	(1)	(1)	F 53 -	22.2	24.1	23
Jersey City	245.2 623.6	246.5 634.5	640.7	.5	.5	.5	4.8 19.7	4.7 20.7	2
Monmouth-Ocean		367.9	368.9	(1)	(1)	ا" ران	18.5	19.4	19
Newark	963.9	976.4	980.8	`´.a¦	` ′ .9	9. `	33.1	35.3	i 3
Trenton	200.7	199.1	199.8	(1)	(¹)	(1)	4.7	5.0	Ĭ
Vineland-Millville-Bridgeton	59.8	60.3	60.2	.3	` ´ .2	` ′ .2	2.2	2.3	
w Mexico	716.9	726.6	727.3	15.7	14.9	14.9	42.8	44.0	43
Albuquerque	337.6	341.5	342.7	(1)	(¹)	(1)	21.6	21.8	21
Las Cruces	52.4	53.2	53.6	[(1)	(!)	[1]	3.1	3.3	3
	71.3	72.9	72.9	(1)	(1)	l (1)	3.7	3.8	3

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

(in thousands)

		Manufacturing	9		ansportation a public utilities	and	Whole	sale and reta	il trade
State and area	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998P	November 1997	October 1998	Novemb 1998
aryland	176.9	174.7	174.8	105.7	106.9	106.3	547.0	540.3	548
Baltimore PMSA		98.3	98.3	59.3	61.7	61.1	276.5	274.5	277
Baltimore City		30.3	30.5	20.5	22.1	21.9	65.3	64.5	64
Suburban Maryland-D.C.		38.9	38.8	34.3	34.5	34.5	201.7	197.8	199
assachusetts	453.4	447.4	446.6	138.4	138.8	138.4	733.9	735.1	742
Barnstable-Yarmouth		2.2	2.2	2.9	29	2.8	19.1	20.5	20
Boston		221.9	221.0	84.5	85.4	85.2	429.6	427.4	435
Brockton		10.5	10.5	5.2	4.9	4.9	32.2	31.9	33
Fitchburg-Leominster		13.3	13.2	2.2	2.0	2.0	12.6	12.5	1:
Lawrence		36.6	36.6	4.9	4.9	4.9	35.4	34.7	ј з
Lowell		30.1	30.0	7.3	7.5	7.5	25.6	25.3	2
New Bedford		13.2	13.3	3.6	3.8	3.8	16.5	16.4	1 1
Pittsfield		7.5	7.4	1.3	1.3	1.3	10.6	10.6	1
Springfield		39.2	39.4	10.4	10.6	10.7	59.9	59.1	l 5
Worcester	1	41.8	41.9	9.9	9.2	9.2	51.9	51.7	5
chigen	976.8	977.9	977.6	175,5	176.8	176.3	1,061.8	1,079.5	1,08
Ann Arbor		53.9	54.0	6.5	6.6	6.7	55.4	55.6	5
Benton Harbor		20.1	20.1	3.0	3.0	3.0	16.3	16.4	1 1
Detroit		443.7	445.7	96.0	95.0	95.2	500.2	510.5	51
Flint		39.5	39.6	5.5	5.6	5.5	46.5	46.2	1
Grand Rapids-Muskegon-Holland		158.8	159.5	19.1	19.5	19.4	139.5	144.3	14
		13.0	13.2	3.5	3.5	3.5	15.8	16.1	
Jackson		49.6	49.5	7.1	7.3	7.3	47.6	48.1	
Kalamazoo-Battle Creek			29.0	6.1	6.0	6.0	53.4	53.4	1 3
Lansing-East LansingSaginaw-Bay City-Midland		29.0 40.9	40.4	7.3	7.2	7.1	46.9	47.4	2
nnesota	439.2	443.8	441.6	126.8	128,1	128.6	614.6	617.4	6
		8.7	8.6	7.2	7.6	7.6	28.5	28.6	1 %
Duluth-Superior		277.5	277.6	90.1	93.5	93.6	398.0	398.3	40
Minneapolis-St. Paul			13.6	2.2	2.2	2.1	15.0	14.9] "
Rochester		13.7 15.6	15.6	3.0	3.1	3.2	26.2	26.1	2
esissippi	1 1	240.2	239.9	54.3	53.6	52.9	240.9	239.9	24
Jackson		21.1	20.9	15.8	15.6	15.6	54.7	53.6	
ssouri	422.2	420.7	420.0	164.2	166.2	166.1	637.2	642.3	64
Kansas City		109.2	109.1	76.6	80.0	80.2	231.9	232.5	23
St. Louis		196.1	197.2	83.0 أ	83.0	83.1	312.6	313.2	3.
Springfield		23.7	23.6	10.5	10.4	10.5	46.3	46.6	
ontana	24.7	24.6	24.4	21.7	21.5	21.6	99.6	100.3	10
braska	117.3	118.3	118.0	54.5	56.8	56.9	215.6	217.3	2
Lincoln	17.6	17.9	17.7	9.6	10.3	10.3	31.2	31.1	1 3
Omaha		41.9	41.6	28.9	29.8	29.9	99.4	101.1	10
vada	41.2	43.1	42.9	47.0	48.2	48.5	184.9	190,2	19
Las Vegas		23.0	23.0	33.6	34.2	34.9	132.8	137.4	1 1
Reno		14.4	14.4	11.7	11.7	11.6	41.6	41.6	7
w Hampshire	107.7	104.9	104.6	19.6	19.6	19.3	151.6	151.3	1:
Manchester		13.5	13.7	5.7	6.0	6.1	24.0	23.5	"3
Nashua		27.3	27.2	2.4	2.3	2.3	23.0	22.8	2
Portsmouth-Rochester		19.2	19.1	4.2	3.9	3.8	30.5	30.5	3
w Jersey	486.6	478.9	477.4	261.8	266.5	266.5	891.7	898.3	9
Atlantic-Cape May		6.3	6.3	7.3	7.2	7.1	35.3	38.3	[
Bergen-Passaic	107.7	106.7	105.6	36.2	37.3	36.9	181.5	180.9	18
Camden		55.1	55.3	22.0	22.7	23.0	127.8	129.6	13
Jersey City	29.8	29.3	29.3	28.8	29.2	29.5	57.0	56.9	
Middlesex-Somerset-Hunterdon	93.3	92.1	91.5	51.1	51.3	51.7	147.5	148.3	15
Monmouth-Ocean		19.7	19.7	21.2	21.4	21.2	100.1	101.0	10
Newark		135.8	135.1	81.6	84.1	84.4	192.9	193.1	19
Trenton	19.5	17.7	17.7	7.5	7.5	7.4	33.9	33.2	3
Vineland-Millville-Bridgeton	12.9	12.8	12.6	3.0	3.0	3.1	11.8	11.8	1
w Mexico	47.6	45.7	44.7	33.1	34.0	34.1	170.0	173.3	17
] ^^ -	00.0	1 400	400	40-		20.0	
Albuquerque	30.2	28.7 2.8	28.6 2.8	16.1 1.8	16.6 1.9	16.7 1.9	82.6 11.4	83.8 11.4	1

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

(in thousands)

		nance, insurar and real estat			Services			Government	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novembe 1998 ^p
laryland	130.6	133.2	133.2	761.7	783.2	784.3	423.8	439.4	. ا
Baltimore PMSA	72.8	73.6	73.7	397.3	406.7	402.5	214.5	214.7	443. 215.
Baltimore City		34.6	34.7	159.7	161.0	159.8	89.2	93.1	
Suburban Maryland-D.C.		50.7	50.6	289.8	296.9	296.4	173.2	179.7	93. 180.
lassachusetts	214.6	218.5	219.5	1,130.3	1,168.1	1,169.6	415.6	418.2	421.
Barnstable-Yarmouth		3.4	3.3	18.7	20.4	18.8	7.3	7.6	7.
Boston	159.9	163.4	164.0	763.2	785.3	788.3	230.9	232.6	234.
Brockton	3.3	3.3	3.4	26.5	27.6	27.8	16.9	17.2	17.
Fitchburg-Leominster	1.6	1.7	1.7	13.7	13.7	13.5	8.1	8.5	8.
Lawrence	4.4	4.2	4.2	44.2	45.5	45.6	18.1	18.3	18
Lowell	3.9	3.8	3.8	33.0	33.8	34.1	15.7	15.8	16
New Bedford	} 1.8	1.8	1.8	17.1	17.9	18.0	10.4	10.2	10.
Pittsfield	1.9	2.0	2.0	14.1	14.5	14.3	5.4	5.7	5
Springfield		13.1	13.1	80.9	82.7	82.6	47.4	47.6	48
Worcester	15.0	14.7	14.8	66.8	67.9	67.9	35.2	36.1	36
lichigen		207.0	207.0	1,234.1	1,282.3	1,278.6	670.5	677.8	684
Ann Arbor		10.2	10.2	65.7	67.9	67.3	73.0	73.6	74
Benton Harbor	1	2.4	2.4	19.7	20.0	20.1	8.8	9.0	9
Detroit		112.7	112.8	644.8	665.2	666.9	233.8	236.9	239
Flint		6.6	6.5	51.3	52.5	52.6	25.4	24.7	24
Grand Rapids-Muskegon-Holland		23.1	23.0	145.9	150.7	150.0	56.0	58.4	. 58
Jackson		1.9	1.9	14.8	15.2	15.1	10.5	10.7	. 10
Kalamazoo-Battle Creek		10.8	10.8	53.9	54.8	54.6	35.8	36.5	3€
Lansing-East Lansing		14.2	14.2	57.4	58.9	58.9	68.4	68.0	68
Saginaw-Bay City-Midland	6.9	6.9	6.9	48.7	51.1	50.8	22.6	23.2	23
nnesota	148.0	153.2	153.6	709.1	735.3	732.8	393.5	392.8	394
Duluth-Superior		3.6	3.6	31.9	32.8	32.8	23.5	23.0	23
Minneapolis-St. Paul		118.4	118.6	479.6	494.4	494.3	230.4	232.1	237
Rochester		2.4	2.4	32.6	33.7	33.5	7.1	6.9	
St. Cloud	3.0	3.2	3.2	21.8	22.2	22.5	13.2	12.8	12
lississippi		41.7 16.6	41.9 16.7	262.3 58.6	266.1 61.8	264.8 61.1	223.2 44.6	229.7 46.7	229 47
Nissouri	154.5	160.0	159.9	744.1	755.0	750.7	424.1	430.7	434
Kansas City	65.6	68.8	68.8	272.0	276.8	276.7	134.4	137.5	138
St. Louis		81.6	81.5	408.9	417.5	415.9	157.2	154.8	158
Springfield		7.2	7.2	48.6	50.0	49.8	20.7	21.0	21
ontana	16.5	17.0	17.0	104.3	107.0	105.8	79.9	80.8	81
lebraska	55.5	58.1	58.5	234.5	238.8	238.7	156.8	154.3	155
Lincoln		10.2	10.3	37.4	37.3	37.4	37.2	35.7	35
Omaha		36.7	36.9	133.7	138.5	138.5	52.2	50.0	49
evada		43.6	43.9	388.0	405.9	407.8	111.1	115.6	116
Las Vegas		32.8	33.0	291.0	307.5	309.9	69.1	73.3	73
Reno	8.2	8.6	8.7	68.4	69.0	68.6	23.9	24.3	24
ew Hampshire		29.7	29.8	165.1	167.1	164.2	81.5	81.3	82
Manchester		7.1	7.0	30.9	29.9	30.0	11.4	10.7	10
Nashua		4.7 6.4	4.8 6.5	24.8 28.9	24.5 28.7	24.4 28.3	8.7 22.0	8.8 21.6	2
ew Jersey	240.6	246.3	246.3	1,191.9	1,230.6	1,231.4	578.2	572.8	57
Atlantic-Cape May		6.4	6.2	85.2	87.9	86.0	28.8	29.5	2
Bergen-Passaic		35.4	35.6	198.3	203.4	204.4	73.6	70.9	7
Camden		24.B	25.1	148.5	154.8	154.7	80.3	70.9	80
Jersey City		26.7	26.7	59.9	61.5	62.0	38.9	38.2	3
Middlesex-Somerset-Hunterdon		46.4	45.5	188.2	196.2	197.7	78.2	79.0	79
Monmouth-Ocean		18.0	18.0	120.4	125.5	124.7	63.8	62.9	6
Newark		73.4	72.9	302.5	310.1	311.2	144.0	143.7	144
Trenton		11.4	11.0	71.1	74.1	74.2	52.6	50.2	5
Vineland-Millville-Bridgeton		3.1	3.1	12.9	13.1	12.6	13.6	14.0	1.
ew Mexico	31.2	31.9	32.0	195.7	202.5	203.0	180.8	180.3	180
Albuquerque		16.9	16.7	105.4	108.3	108.3	65.2	65.4	6
Las Cruces		2.0	2.0	11.0	12.0	12.1	20.3	19.8	2

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

(In thousands)

		Total		}	Mining			Construction	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novembe 1998 ^p
ew York		8,268.5	8,307.8	4.6	4.8	4.6	278.0	300.2	295.
Albany-Schenectady-Troy	438.4	438.9	443.9	.5	.5	.5	15.7	17.1	16.
Binghamton		117.0	117.8	(1)	(1)	(1)	4.0	4.4	4.3
Buffalo-Niagara Falls		551.9	553.4	1 715	į15	(1)	21.0	22.6	21.
Dutchess County		111.0	111.2	}1(111	111	4.4	4.9	4.
		43.4	43.9	l }1(1	11() 1(1.7	1.8	1.
Elmira				1 317 1	111	1 11			
Glens Falls		50.7	49.5	1 53 1	$\subseteq \Omega$	$\subseteq \Omega$	2.1	2.2	2.
Nassau-Suffolk		1,161.6	1,168.3	1 (1)	(:)	()	52.0	55.4	55.
New York PMSA		4,064.6	4,094.1	(1)	(1)	(')	124.1	132.1	132.
New York City	3,472.8	3,538.5	3,565.0] .3	.3	.3	98.8	105.1	105.
Newburgh		122.6	122.8	(¹)	(¹)	(1)	4.6	4.5	4.
Rochester		535.3	536.4	.5	.4	.4	17.3	18.7	18.
Rockland County		106.9	107.8	(1)	(1)	713	3.8	4.2	4.
		344.4	344.5	} }1(715	715	13.5	14.8	13
Syracuse				}1}	1 1	1 11			
Utica-Rome		132.2	132.3	1 (1)		(;)	3.8	4.3	4
Westchester County	394.9	397.7	399.7	(')	(1)	(')	19.5	20.4	20
orth Carolina		3,795.2	3,809.2	4.0	4.0	4.0	209.3	214.0	214
Asheville	111.8	110.9	113.0	(!)	(!)	(1)	5.9	5.9	} 5
Charlotte-Gastonia-Rock Hill	767.4	770.2	771.0	(1)	(1)	(1)	47.3	47.7	47
GreensboroWinston-SalemHigh Point		638.2	641.2	(1)	(1)	(1)	31.7	32.7	l 32
Raleigh-Durham-Chapel Hill		646.2	649.5	(1)	(1)	(1)	35.4	36.1	36
orth Dekota	318.8	322.0	319.7	4.3	4.1	4.0	15.0	16.6	14
Bismarck	1 1 2	50.1	49.6	(1)	(1)	(1)	2.6	2.6] 2
Fargo-Moorhead		100.0	99.4	}1((1)	115	5.4	5.6	5
Grand Forks		48.6	48.9	(1) (1)	11	(1)	2.8	3.0	Ž
nio	5,472.2	5,518.6	5,540.8	13.6	13.1	13.1	233.4	247.9	241
Akron		331.2	331.8	.5	.5	.5	13.6	14.2	13
Canton-Massillon		188.2	188.7	.5	.5	.5	8.8	9.5	l j
Cincinnati		878.6	884.2	.7	.8	.7	40.7	43.1	42
Cleveland-Lorain-Elyria		1,174.4	1,178.1	.9	.8	.8	46.3	50.5	48
Columbus		840.9	846.8	.7	.6	.6	36.7	39.0	38
Dayton-Springfield		481.3	483.2	.4	4	4	18.0	18.5	18
Hamilton-Middletown	120.2	119.4	120.5	(!)	(!)	(!)	7.5	7.4	7
Lima	78.8	79.3	79.8	(1)	(¹)	(1) (1)	3.9	3.7] 3
Mansfield		79.4	80.0		(1)	(1)	2.6	2.5	2
Steubenville-Weirton		51.3	51.0		.4	4	1.6	1.8	l 1
		321.2	322.3	.2	i :i :	.1	15.3	15.8	15
Toledo		252.7	253.0	.5	.5	.5	10.4	10.7	1 10
Youngstown-Warren	250.1	202.7	255.0	.5	.5	.5	10.4	10.7	۱ '°
klahoma		1,448.2	1,453.0	31.3	31.6	31.1	51.2	53.3	53
Enid		25.6	25.8	1.2	1.2	1.3	1.0	1.2	1
Lawton		37.8	37.7	.1	_1	.1	1.0	1.0	1
Oklahoma City	508.8	519.1	521.4	7.4	7.2	7.3	18.4	18,8) 18
Tuisa	381.6	392.3	394.9	7.5	7.5	7.5	15.4	17.1	17
egon		1,592.8	1,599.8	1.9	1.9	1.8	83.2	87.7	85
Eugene-Springfield		142.0	143.2	.2	.2	.2	7.6	8.2	7
Medford-Ashland		73.2	73.4	.1	.1	.1	3.4	3.6	1 3
Portland-Vancouver		957.6	965.6	1.ii	1.2	1.2	56.8	56.9	56
Salem		137.9	135.8	.2	.3	.3	7.9	8.4	l š
ennsylvania	5,497.7	5,532.8	5,550.6	20.5	20.1	20.2	224.2	232.9	230
Allentown-Bethlehem-Easton		267.2	268.0	(1)	(1)	(1)	10.6	10.9	1 23
Atoons	59.1	59.8	59.8	}1(\ \i\	}i{	25	2.6	} '¿
Erie		131.9	132.3] };{ }	\ \ ₁ \) ₁ (4.5	4.9	4
				{i}	\ \{i\}	{i}			
Harrisburg-Lebanon-Carlisle		357.0	358.2				13.4	13.8	13
Johnstown		89.1	89.7	(1)	(1)	(1)	4.5	4.6	4
Lancaster		219.5	220.1	4	4	.14	12.6	12.9	12
Philadelphia PMSA		2,316.5	2,327.1	(1) (1)	[([)	(', ')	91.9	98.3	95
Philadelphia City		682.5	686.3	ן (י) ן	(1)	(1)	12.1	11.9	11
Pittsburgh		1,082.8	1,086.1	4.7	4.4	4.4	52.0	52.7	5
Reading		167.0	166.3	(1)	(1)	(¹)	7.6	7.4]
ScrantonWilkes-BarreHazleton		282.3	283.9	ו א'' ו	` ′ .4	` ′ .4	10.8	12.1	1 1
				[/1\ ^{-#} [(1).4	(1).4			
Sharon		48.9	49.3	522 i	572	\ }	1.6	1.6	
State College		71.5	71.8		(1)	(1)	2.5	2.4	1 3
Williamsport	53.7	54.7	54.7	[(')]	(1)	(1)	2.3 8.5	2.5) :
York		165.4	165.4		.4			9.1	1 8

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

(In thousands)

0		Manufacturing)	Tr	ansportation a public utilities		Whole	Wholesale and retail trade			
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novemb 1998 ^p		
	1								i		
ew York		921.8	919.4	414.8	418.4	416.6	1,683.2	1,680.9	1,709		
Albany-Schenectady-Troy		38.7	38.8	17.3	17.3	17.3	95.3	93.9	96		
Binghamton	25.3	25.4	25.3	4.8	4.9	4.9	24.4	24.3	24		
Buffalo-Niagara Falls		89.4	89.3	25.5	26.9	26.7	133.7	130.4	133		
Dutchess County		18.9	19.0	3.6	3.7	3.6	20.7	21.0	21		
Elmira		9.6	9.7	1.5	1.5	1.5	10.7	10.4	10		
Glens Falls									,		
		8.2	8.2	1.5	1.7	1.5	11.3	11.8	11		
Nassau-Suffolk		114.0	114.3	53.4	54.8	54.8	296.0	293.7	298		
New York PMSA		321.0	319.6	236.0	238.7	237.9	712.9	720.5	732		
New York City		268.2	266.8	209.2	211.9	211.0	599.3	603.5	612		
Newburgh	11.7	11.7	11.7	6.8	6.9	6.9	33.8	33.9	34		
Rochester		121.2	120.9	17.0	17.3	17.3	113.4	113.1	114		
Rockland County		12.4	12.5	6.4	6.3	6.3	22.8	26.3	20		
Syracuse		49.5	49.6	19.6	20.4	20.3	80.6	79.9	8		
		19.6	19.6	3.7	3.8			27.6			
Utica-Rome						3.8	27.2		2		
Westchester County	38.6	38.4	38.3	19.8	19.8	19.9	86.7	86.4	84		
orth Carolina		822.9	822.0	171.8	171.4	172.1	856.9	857.7	87		
Asheville	19.9	19.3	19.3	4.7	4.5	4.6	28.3	27.9	2		
Charlotte-Gastonia-Rock Hill	144.9	140.5	140.6	53.0	53.1	53.1	186.0	185.6	18		
GreensboroWinston-SalemHigh Point	165.6	164.2	164.5	31.9	31.3	31.3	143.1	142.7	143		
Raleigh-Durham-Chapel Hill		85.6	85.9	27.5	28.3	28.6	133.4	135.5	13		
orth Dakota	23.9	24.0	23.8	18.2	18.4	18.3	82.6	81.6	8:		
Bismarck		2.8	2.8	3.1	3.3	3.2	12.5	12.5	1:		
Fargo-Moorhead		8.5	8.4	5.2	5.4	5.3	28.4	28.2	2		
Grand Forks		3.9	3.9	2.3	2.2	2.2	13.1	13.0	1:		
hio	1,094.3	1,091.3	1,091.7	236.1	236.4	236.6	1,336.9	1,322.3	1,34		
Akron		64.3	64.4	14.6	14.9	14.8	81.1	82.5	83		
Canton-Massillon		47.7	47.8	5.2	5.1	5.0	46.9	46.5	40		
Cincinnati		142.6	143.2	44.9	45.2	45.3	222.3	220.9	224		
Cleveland-Lorain-Elyria		223.3	223.3	45.7	46.1	46.1	277.3	277.8	28		
Columbus	93.4	94.2	94.3	37.1	36.2	36.4	218.3	215.9	219		
Dayton-Springfield	100.8	98.3	98.6	21.0	21.5	21.5	112.7	112.7	11		
Hamilton-Middletown		20.6	20.7	4.8	5.1	5.0	32.1	31.2	3		
Lima		19.7	19.6	3.1	3.1	3.1	18.9	19.0	19		
Mansfield		22.5	22.8	3.5	3.1	3.1	18.8	18.5	18		
		13.9	13.7	2.8	2.5	2.5	10.9	10.9	10		
Steubenville-Weirton											
Youngstown-Warren		60.2 58.9	60.4 58.6	14.5 10.6	14.9 10.7	14.8 10.7	80.6 63.0	77.6 63.8	7 6		
roungstown wanten	į į]								
klahoma Enid		186.3 2.4	186.7 2.4	80.7 2.0	83.8 2.1	83.8 2.1	329.6 6.3	331.9 6.3	336		
		3.5	3.5	1.8	1.8	1.8	9.0	9.0			
Lawton											
Oklahoma City Tulsa		57.1 57.4	57.2 57.5	24.8 30.0	25.7 31.6	25.7 31.6	121.7 88.2	122.5 88.7	124		
	1	245.3	241.8	75.3	76.3		388.7	391.6	39		
regon						76.4					
Eugene-Springfield		22.1	21.8	4.6	4.3	4.3	36.0	36.1	3		
Medford-Ashland		8.8	8.6	3.4	3.5	3.5	22.5	22.7	, 2		
Portland-Vancouver	150.0	147.9	146.8	53.4	55.2	55.9	234.8	236.8	24		
Salem		19.2	17.3	3.5	3.5	3.5	28.5	28.6	29		
ennsylvania	941.3	932.1	930.2	282.7	285.9	285.4	1,246.1	1,239.4	1,25		
Allentown-Bethlehem-Easton		54.7	55.1	15.6	15.8	15.7	57.6	56.7	5		
Altoona	10.1	10.0	10.0	4.4	4.4	4.4	16.1	16.5	1		
Erie		34.2	34.4	4.8	4.9	4.8	29.3	29.6	ż		
Harrisburg-Lebanon-Carlisle		44.7	44.7	23.4	23.6	23.7	79.5	80.2	8		
Johnstown		12.8	12.9	5.3	5.4	5.4	20.7	20.8	lő		
		55.7	55.8	8.7	9.0	9.0					
Lancaster							54.4	55.0	5		
Philadelphia PMSA		302.2	301.7	109.2	111.7	111.5	510.6	508.5	51		
Philadelphia City		57.3	57.1	33.9	34.4	34.3	111.8	111.9	11		
Pittsburgh	138.8	138.5	138.4	66.1	65.6	65.6	261.9	259.9	26		
Reading		41.5	41.7	8.1	8.3	8.3	39.8	39.6	3		
ScrantonWilkes-BarreHazleton		55.5	55.2	15.7	15.8	15.9	67.7	67.4	l ĕ		
		11.0	11.1	2.0	1.9	1.9	12.8	12.5	ľi		
Sharon											
State College		8.9	8.9	2.1	2.0	2.1	13.7	13.8	1 1		
Williamsport		13.5	13.2	2.0	1.9	1.9	13.3	13.5	1		
York	47.9	46.4	46.2	7.7	7.8	7.6	40.9	40.7	4		

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

(in thousands)

•		nance, insurar and real estat			Services			Government	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novemb 1998
		700.0	700.0	0.740 5	0.000.0	0.000.0	4 000 0	4.075.0	
ew York		732.8	733.3	2,749.5	2,833.6	2,839.6	1,393.9	1,375.8	1,389
Albany-Schenectady-Troy		25.4	25.4	135.0	136.5	138.5	110.3	109.5	110
Binghamton	3.8	3.8	3.8	31.2	31.6	32.0	22.4	22.8	22
Buffalo-Niagara Falls	29.1	29.3	29.3	164.1	165.1	164.1	88.8	88.2	88
Dutchess County		4.8	4.9	34.1	34.6	34.6	23.0	23.1	23
Elmira		1.2	1.3	10.8	11.1	11.1	7.5	7.7	7
Giens Falls		2.1	2.1	13.5	14.4	13.4	10.2	10.3	10
Nassau-Suffolk		79.9	79.6	367.9	380.9	380.1	181.3	182.9	18
New York PMSA		515.4	515.9	1,482.5	1,537.6	1,551.9	608.3	599.4	60-
New York City	473.6	482.1	482.7	1,300.0	1,350.5	1,365.3	524.5	516.9	520
Newburgh	5.4	5.4	5.4	31.5	32.5	32.3	27.7	27.7	2
Rochester		21.1	21.1	158.6	164.2	163.2	79.6	79.3	80
Rockland County		5.0	5.0	32.3	33.1	33.3	19.6	19.6	19
		17.8	17.6	100.1	100.5	100.1	61.6	61.5	62
Syracuse									
Utica-Rome		7.8	7.7	39.7	41.2	41.1	27.9	28.1	20
Westchester County	26.5	26.7	26.7	144.0	147.5	146.9	59.9	58.5	5
		j		l					
orth Carolina		179.0	178.2	901.4	930.0	924.9	607.8	616.2	62
Asheville	3.2	3.0	3.1	33.5	34.0	34.8	16.3	16.3	1
Charlotte-Gastonia-Rock Hill	54.0	56.3	56.0	188.6	190.6	190.7	93.6	96.4	9
GreensboroWinston-SalemHigh Point		33.1	33.5	165.5	168.8	169.0	70.1	65.4	i e
Raleigh-Durham-Chapel Hill		30.6	30.7	194.9	197.6	197.3	125.5	132.5	13
(landight Dannath Offichol this		00.0	•••					, 52.5	``
orth Dakota	15.0	15.7	15.9	87.7	89.2	88.7	72.1	72.4	7
Bismarck		2.4	2.4	15.5	15.7	15.6	10.8	10.8	1 1
		6.7	6.8	30.5	30.6	30.5	15.7	15.0	li
Fargo-Moorhead									
Grand Forks	1.6	1.5	1.5	12.2	11.2	11.4	13.1	13.8	1.
No	288.0	293.3	293.8	1,490.2	1,535.3	1,533.4	779.7	779.0	78
			13.3	90.1	92.0	91.6	49.9	49.6	5
Akron		13.2							
Canton-Massillon		6.2	6.2	50.1	52.4	52.4	20.1	20.3	2
Cincinnati	53.4	55.3	55.5	254.1	265.8	266.0	102.5	104.9	10
Cleveland-Lorain-Elyria	73.9	75.6	75.5	340.8	352.1	352.0	146.9	148.2	14
Columbus		73.2	73.0	234.5	243.1	243.9	138.4	138.7	14
Dayton-Springfield		18.4	18.5	139.6	140.1	139.8	72.8	71.4	7
		6.8	6.8	27.1	27.5	27.5	21.3	20.8	2
Hamilton-Middletown									
Lima		2.2	2.2	20.7	21.0	21.1	10.6	10.6	1
Mansfield		2.4	2.4	20.0	19.7	19.7	10.5	10.7	1
Steubenville-Weirton	1.5	1.5	1.5	13.6	13.9	13.9	6.4	6.4	
Toledo	11.0	11.2	11.3	90.3	91.8	91.4	48.9	49.6	5
Youngstown-Warren	9.4	9.5	9.4	63.8	65.6	65.3	32.6	33.0] 3
•		1	-	1					l
tehome	70.0	71.2	71.4	383.1	400.3	401.1	282.9	289.8	28
Enid	1.0	1.0	1.0	7.1	7.2	7.2	4.2	4.2	1
Lawton		1.7	1.7	8.2	8.4	B.4	11.8	12.3	1
Oklahoma City		30.4	30.4	148.3	152.4	152.6	103.3	105.0	10
Tulsa		20.8	21.0	120.1	125.4	126.4	43.3	43.8	4
		}					15,15		
egon	95.9	97.5	97.4	406.8	426.6	427.4	260.4	265.9	27
Eugene-Springfield		7.6	7.6	37.6	38.7	38.4	25.9	24.8	2
Medford-Ashland		3.2	3.2	18.9	20.1	19.8	11.0	11.2	1
				259.1					
Portland-Vancouver		67.6	67.6		269.5	270.9	121.5	122.5	12
Salem	6.5	6.7	6.7	32.0	33.1	32.4	37.4	38.1	3
meutvonie	314.5	221 1	320.5	1 720 0	1 760 7	1.705.0	720.6	722.6	٠,,
nnsylvania Allentown-Bethlehem-Easton		321.1 13.4	13.5	1,739.8 83.5	1,768.7 83.9	1,765.9 82.9	728.6 31.5	732.6 31.8	74
									•
Altoona	1.9	1.9	1.9	15.9	16.3	16.1	8.2	8.1	i .
Erie		5.4	5.4	36.5	36.7	36.7	16.2	16.2	1
Harrisburg-Lebanon-Carlisle	25.8	25.7	25.7	99.4	101.7	101.3	67.4	67.3	1 6
Johnstown		4.1	4.1	26.8	27.5	27.4	14.0	13.9	1
Lancaster		9.9	9.9	56.0	57.5	57.0	19.3	19.1	1
Philadelphia PMSA		160.5	160.7	824.2	837.0	839.1	298.6	298.3	
									30
Philadelphia City		54.8	55.2	291.6	293.4	296.0	119.1	118.8	11
Pittsburgh		62.3	62.2	372.9	371.2	370.0	128.9	128.2	12
Reading	8.5	8.9	8.9	40.3	41.4	40.3	20.0	19.9	2
ScrantonWilkes-BarreHazleton		14.1	14.2	81.1	82.0	82.6	35.3	35.0	3
Sharon		1,7	1.7	14.0	14.5	14.5	5.6	5.7	١
State College		1.9	1.9	14.1	14.2	14.0	28.3	28.3	2
					140	140	621		
Williamsport		2.2 5.5	2.2 5.4	14.5 39.1	14.9 39.5	14.9 39.7	6.2 16.4	6.2 16.0	

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

(In thousands)

		Total			Mining			Construction	
State and area	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p
Physics to local	4500	460.6	404.4				450	47.0	17.0
Rhode Island Providence-Fall River-Warwick	458.8 518.3	462.6 516.9	464.1 520.3	.2	.2 .2	.2 .2	15.2 17.5	17.6 20.0	17.6 20.1
South Carolina Charleston-North Charleston		1,814.2 236.4	1,831.5 238.3	1.9 (¹)	1.9 (¹)	2,0 (1)	102.1 16.7	112.3 18.5	112.3 18.6
Columbia Greenville-Spartanburg-Anderson	286.6	294.7 476.3	297.3 480.6		{1}	{!}	15.8 30.5	16.5 32.2	16.7 32.1
South Dakota Rapid City	356.9 45.9	363.4 47.5	363.2 46.8	2.1	1.7	1.7	15.7	16.4	15.8
Sioux Falls	104.5	108.9	108.8	(1) (1)	{i}	(1) (1)	3.1 4.8	3.2 5.5	3.0 5.1
Tennessee Chattanooga		2,655.2 226.4	2,662.2 227.2	(1)	4.5 (1)	(1)	118.3 9.7	125.5 10.6	124.1 10.3
Johnson City-Kingsport-Bristol	202.9	201.0	201.6	(1) (1)	(1)	(1)	11.1	11.4	11.4
Knoxville		320.1	319.5	3	.1.6	.1.6	15.4	15.4	15.2
Memphis Nashville	562.7 639.2	572.1 642.3	574.0 647.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	{i}	{i}	24.7 31.9	24.9 35.1	24.8 34.9
Texas Abilene	8,788.6 56.5	8,988.9 58.1	9,027.0 58.1	167.9 1.7	164.5 1.7	163.8 1.7	467.5 2.4	492.5 2.5	493.4 2.5
Amarillo	94.5	95.7	96.1	.6	.6	.6	4.8	2.5 5.0	4.9
Austin-San Marcos		600.2	604.1	1.2	1.3	1.3	30.8	34.3	34.6
Beaumont-Port Arthur		161.1	162.0	.8	.9	.9	15.0	14.5	14.6
Brazoria	75.1	75.6	76.1	. 1.4	1.3	1.3	9.4	8.8	9.0
Brownsville-Harlingen-San Benito	99.4 70.8	100.8	100.5 71.9	(¹) .9	(¹) .8	(¹) .8	3.5	3.6	3.6
Bryan-College Station		71.5 157.4	157.3	2.4	.8 2.4	.8 2.3	3.0 11.3	3.4 10.4	3.4 10.3
Dallas		1,861.2	1.866.7	11.6	11.6	11.6	85.4	88.7	89.3
El Paso		255.7	256.2	(1)	(¹)	(1)	11.8	12.5	12.4
Ft. Worth-Arlington		740.4	745.4	4.3	4.3	4.3	35.0	37.2	37.4
Galveston-Texas City	88.9	90.5	90.4	.7	.7	.7	4.6	4.3	4.4
Houston Killeen-Temple	1,936.8 99.0	1,982.0 102.1	1,993.2 102.4	69.3	69.1 (1)	68.6	132.0 4.2	137.6 4.4	138.1 4.3
Laredo		62.5	63.1	` ′3.1	1.5	1.4	2.2	2.4	2.4
Longview-Marshail	89.8	90.8	91.0	3.4	3.3	3.3	4.5	4.7	4.7
Lubbock		119.0	119.3	.1	.1	.1	4.3	4.8	4.7
McAllen-Edinburg-Mission		140.7	141.6	1.2	1.2	1.1	7.2	7.3	7.3
Odessa-Midland San Angelo		107.6 44.0	107. 9 44.1	13.8	12.6 .7	12.6 .7	6.0 1.9	7.2 1.9	7.2 1,9
San Antonio		696.8	701,0	1.9	2.0	2.0	35.1	37.8	37.9
Sherman-Denison		45.0	44.6	(1)	(1) ·	(1)	2.2	2.3	2.3
Texarkana	51.9	52.7	53.2	(1)	(1)	(1)	2.1	2.3	2.3
Tyler	78.0	81.1	81.5	1.6	1.6	1.6	2.9	3.2	3.1
Victoria	36.0 P	37.4 99.8	37.4 99.6	(1)	(1,7)	(¹)	2.4 4.5	2.5 5.0	2.5 5.0
Wichita Falls	59.9	60.9	61.1	1.1	1.1	1.1	2.2	2.4	2.4
Utah		1,036.9 141.8	1,044.2 143.8	8.6 (1)	8.2 (¹)	8.1 ([†])	66.9 9.5	71.0 9.4	70.4 9.4
Provo-Orem Salt Lake City-Ogden	688.4	697.2	705.1	3.0	2.8	2.7	44.4	46.9	46.2
Vermont Barre-Montpelier		288.6 31.6	286.3 31.6	.6	.6	.6	13.8	14.7	14,3 1.5
Burlington	101.2	102.4	102.1	\1;	{1}	{+}	1.4 5.3	1.5 4.8	4.7
Virginia	3,296.9	3,360.0	3,376.0	10.9	11.2	11.1	189.9	201.5	200.4
Bristol		37.3	37.5	(;)	(1)	(!)	1.4	1.4	1.4
Charlottesville Danville		86.6 46.9	86.9 47.0	(1)	 {{} }		4.3 2.3	4.3 2.4	4.3 2.4
Lynchburg		98.6	99.2	}}	} i{	1	2.3 5.9	6.1	6.0
Norfolk-Virginia Beach-Newport News	674.4	682.6	682.9	(1)	(1)	(1)	40.6	41.5	41.4
Northern Virginia	1,022.7	1,052.6	1,061.2		<u>`</u> .8	` ´ .8	57.9	61.5	61.7
Richmond-Petersburg	533.9 141.7	537.6 141.4	542.0 141.7	.8 (1)	.7 (¹)	.7 ¹	33.8 8.5	34.5 8.7	34.2 8.5
Washington		2,637.2	2,644.0	3.5	3.5	3.4	139.0	149.5	145.5
Seattle-Bellevue-Everett	1,335.0	1,361.3	1,376.6	.7	.7	.7	68.6	72.2	71.7
Spokane	191.1	187.3	188.1	(1)	(¹)	(¹)	11.8	10.4	9.9
Tacoma	231.6	237.7	238.1	.2	.2	.2	12.8	15.7	15.6

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

(in thousands)

•		Manufacturing		Tr	ansportation a public utilities		Wholesale and retail trade			
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	
Rhode Island	80.6	79.9	79.6	15.9	16.0	16.1	100.6	100.2	101	
Providence-Fall River-Warwick		102.8	102.8	17.6	17.9	18.1	118.5	115.8	117.	
South Carolina		363.3	363.8	76.8	79.5	79.9	427.3	445.8	450	
Charleston-North Charleston		21.6 26.5	21.7 26.7	12.3 12.6	12.9 13.0	12.9 13.0	56.0 67.2	57.7 69.7	58 70	
Greenville-Spartanburg-Anderson		122.5	122.6	20.7	21.2	21.2	119.8	122.9	124	
South Dakota		50.3	49.9	16.1	16.5	16.5	88.7	89.6	89	
Rapid City Sioux Falls		4.8 15.1	4.8 15.1	1.8 6.5	1.8 6.6	1.8 6.5	13.4 26.5	14.2 27.0	14 27	
ennessee		507.9	506.9	151,4	153.1	153.1	627.2	625.2	634	
Chattanooga		43.3	43.1	12.1	12.2	12.2	54.9	53.8	54	
Johnson City-Kingsport-Bristol		50.0	49.9	7.8	7.5	7.5	46.2	45.7	46	
Knoxville		47.2	47.0	14.1	14.1	14.1	85.2	84.8	85	
Memphis		62.6 94.9	62.2 95.1	61.3 31.7	63.5 31.7	63.5 32.0	143.9 156.5	144.8 156.7	147 159	
Texas	1,093.7	1,098.2	1,097.3	527.8	550.4	552.0	2,094.7	2,114.2	2,140	
Abilene		3.4	3.3	2.5	2.5	2.5	14.7	15.0	18	
Amarillo		9.4	9.4	5.5	5.7	5.8	26.6	26.8	2	
Austin-San Marcos		76.1	76.4	18.9	19.9	20.1	124.8	129.5	13	
Beaumont-Port Arthur		25.8	25.9	8.0	8.0	8.0	36.4	37.0	3	
Brazoria		16.6	16.6	2.6	2.7	2.7	15.1 24.1	15.2 24.0	1:	
Brownsville-Harlingen-San Benito		12.5 4.5	12.1	4.5 1.5	4.8 1,5	4.8 1.5	15.2	15.5	1:	
Bryan-College Station		13.5	13.5	6.4	6.4	6.4	36.4	36.4	3	
Dallas		251.8	252.3	124.0	130.9	131.7	439.8	443.8	441	
El Paso		41.7	41.2	13.8	14.7	14.9	58.8	59.0	6	
Ft. Worth-Arlington		111.2	111.3	67.2	70.3	70.7	186.6	189.7	19	
Galveston-Texas City		8.1	8.0	4.3	4.5	4.5	19.3	20.0	2	
Houston	213.4	216.1	215.3	136.3	139.9	140.0	447.7	450.9	45	
Killeen-Temple		9.4	9.4	3.6	3.7	3.7	23.4	23.4	2:	
Laredo		1.6	1.6	10.4	11.3	11.3	16.7 22.6	17.1 23.0	1 2:	
Longview-Marshall		19.1 8.1	19.1 8.1	4.1 5.7	4.3 5.7	4.3 5.8	32.6	33.0	3	
Lubbock McAllen-Edinburg-Mission		13.2	12.8	4.8	5.0	4.9	39.4	39.1	4	
Odessa-Midland	1	7.4	7.4	4.3	4.2	4.2	28.0	27.8	2	
San Angelo		4.6	4.6	2.3	2.3	2.3	10.3	10.4	10	
San Antonio		50.8	51.1	31.0	31.4	31.5	164.9	166.3	16	
Sherman-Denison		10.6	10.0	1.6	1.7	1.7	9.9	9.9	10	
Texarkana		5.8	5.8	2.2	23	2.4	13.8	13.5	1:	
Tyler		10.7	10.6	3.9	4.1	4.1	20.2	21.0	2	
Victoria		3.2	3.2	1.5	1.7	1.7	9.5	9.8 22.9	2	
Waco		16.7 8.5	16.7 8.4	3.9 2.9	3.9 2.8	3.9 2.8	22.6 13.8	13.9	14	
Jtah	135.0	135.4	135.8	57.7	58.5	58.6	247.0	244.7	249	
Provo-Orem		20.0	20.3	2.3	2.2	2.3	31.8	31.4	3:	
Salt Lake City-Ogden	83.5	83.3	83.6	45.6	46.4	46.7	169.5	168.6	17:	
/ermont		48.6	48.5	12.3	12.4	12.3	65.2	66.3	6	
Barre-Montpelier		3.8 19.0	3.7 18.9	1.1	1.1 4.5	1.1 4.3	6.6 22.2	6.8 22.4	2	
/irainia	407.4	405.8	405.4	171.9	175.5	175.6	746.8	745.3	75	
Bristol] 9.8	8.9	8.7	1.3	1.3	1.3	10.4	10.4	1	
Charlottesville		8.2	8.4	2.3	2.4	2.4	16.6	17.0	1	
Danville		15.7	15.5	1.0	1.0	1.1	10.1	10.1	11	
Lynchburg		24.8 69.0	24.8 69.0	3.6 32.2	3.7 33.5	3.7 33.2	21.7 161.4	20.2 160.5	2 16	
Northern Virginia		45.7	45.7	61.5	62.4	62.5	221.2	219.6	22	
Richmond-Petersburg Roanoke	61.6	60.2 18.8	60.4 18.5	27.8 8.6	28.1 8.6	28.2 8.6	128.1 36.5	127.6 36.3	12	
	}		j	i		}			1	
Washington		378.2 227.1	374.0 227.2	134.6 78.3	140.7 82.4	140.3 82.5	622.7 313.9	639.1 315.5	64 32	
Coattle-Bellevije-Cverett										
Seattle-Believue-Everett Spokane		20.2	20.1	7.9	8.1	8.1	49.1	47.5	48	

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

(In thousands)

_		ance, insuran			Services			Government	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p
Rhode island	26.6	28.1	28.4	154.3	155.9	155.3	65.4	64.7	65.8
Providence-Fall River-Warwick	29.0	29.3	29.6	165.1	165.5	165.4	66.6	65.4	66.4
South Carolina	74.8 8.5	79.2	79.4	399.3	423.8	423.8	305.3	308.4 51.2	320.0 52.3
Charleston-North Charleston	20.2	8.6 20.9	8.6 21.0	61.3 70.2	65.9 72.1	65.9 72.3	50.4 74.7	76.0	77.3
Greenville-Spartanburg-Anderson	15.6	15.9	16.0	98.7	102.8	103.1	58.5	58.8	61.4
South Dakota		22.9	23.0	91.5	95.3	94.2	71.7	70.7	72.7
Rapid City Sioux Falls	1.8	1.9 13.2	1.9 13.3	13.8 30.3	14.2 31.3	13.8 31.1	7.3 10.0	7.4 10.2	7.4 10.4
Tennessee	121.7	123.0	123.2	694.4	710.0	708.6	391.2	406.0	407.
Chattanooga	(15.6	15.6	55.9	56.8	56.8	34.4	34.1	34.
Johnson City-Kingsport-Bristol		6.3	6.2	50.5	50.7	50.7	29.3	29.4	29.8
Knoxville		14.3	14.2	87.4	88.6	88.1	55.2	55.1	55.2
Memphis Nashville	27.8 39.3	28.2 39.4	28.2 39.5	161.3 199.2	164.0 199.2	163.8 200.1	80.5 84.2	84.1 85.3	84.: 85.
_	1	486.0	486.9	2,447.5	2,542.1	2,542.3	1,518.9	1,541.0	1,550.
Abilene	2.4	2.5	2.5	19.4	20.2	20.1	1,516.9	10.3	1,550.
Amarillo	5.0	5.1	5.1	25.8	26.5	26.5	16.9	16.6	16.
Austin-San Marcos	30.1	30.9	30.7	167.1	174.7	175.6	130.9	133.5	134.
Beaumont-Port Arthur	5.2	5.4	5.5	41.8	42.5	42.6	27.0	27.0	27.
Brazoria		1.8	1.8	13.9	14.3	14.2	14.4	14.9	15.0
Brownsville-Harlingen-San Benito		3.7	3.7	28.1	28.6	28.4	23.5	23.6	23.
Bryan-College Station		2.3	2.4	15.1	15.5	15.5	28.6	28.0	28.
Corpus Christi	6.5	6.5	6.4	48.4	49.8	49.6	31.5	32.0	32.
Dallas	141.8	146.6	146.7	557.8	580.3	578.8	202.7	207.5	208.
El Paso		10.5	10.5	56.1	59.3	59.4	55.1	58.0	57.8
Ft. Worth-Arlington	32.1	33.2	33.2	194.3	202.3	202.4	92.6	92.2	92.
Galveston-Texas City	5.4	5.6	5.5	18.9	19.5	19.5	27.6	27.8	27.
Houston		105.5	105.6	582.6	603.8	605.8	253.4	259.1	261.
Killeen-Temple		4.3	4.3	27.1	28.3	28.3	27.7	28.6	28.
Laredo		2.5	2.6	11.1	11.6	11.7	14.4	14.5	14.
Longview-Marshall		3.3	3.2	21.0	21.4	21.4	11.9	11.7	11.
Lubbock		5.7	5.7	34.3	36.2	35.8	25.4	25.4	25.
McAllen-Edinburg-Mission		5.0	5.0	31.5	32.2	32.2	37.7	37.7	38.
Odessa-Midland		3.5	3.5	24.7	25.4	25.4	18.7	19.5	19.
San Angelo		1.6	1.6	13.0	13.4	13.4	9.1	9.1	9.
San Antonio		45.6	45.6	214.0	226.8	227.4	135.2 5.7	136.1	136. 5.
Sherman-Denison	2.1	2.1 1.8	2.1 1,8	12.3 14.3	12.7 15.1	12.7 15.1	11.8	5.7 11.9	5. 11.
Tyler	1	4.1	4.2	23.3	25.3	25.3	11.1	11.1	11.
Victoria		1.3	1.3	9.7	10.2	10.0	6.4	7.0	7.
Waco	5.6	6.0	6.0	29.2	30.0	29.7	15.2	15.3	15.
Wichita Falls		2.2	2.2	16.5	16.9	17.0	12.7	13.1	13.
Uteh	54.0	54.2	54.4	276.2	283.6	284.1	177.3	181.3	183.
Provo-Orem Salt Lake City-Ogden	4.1 44.6	4.3 44.6	4.4 44.9	53.6 184.9	53.8 191.5	54.6 192.7	19.6 112.9	20.7 113.1	20.8 114.4
/ermont	12.2	12.2	12.3	82.8	85.9	83.7	48.1	47.9	48.
Barre-Montpelier		2.4	2.4	7.9	8.8	8.8	7.1	7.2	7.
Burlington	5.1	5.1	5.1	29.0	30.1	29.5	16.6	16.5	16.
Virginia	168.2	173.1	172.9	990.1	1,037.1	1,034.9	611.7	610.5	616.
Bristol		1.3	1.3	7.9	8.4	8.5	5.7	5.6	5.
Charlottesville		4.4	4.4	20.0	20.4	20.4	26.5	29.9	29.
Danville		1.5	1.5	10.0	10.3	10.2	6.0	5.9	6.
Lynchburg		4.2	4.2	25.5	27.0	26.9	12.7	12.6	12.
Norfolk-Virginia Beach-Newport News		32.8	32.6	193.8	199.5	198.0	146.3	145.8	145.
Northern Virginia		56.8	56.9	400.6	425.1	426.4	181.2	180.7	183.
Richmond-Petersburg		44.2 9.3	44.4 9.4	139.6 41.6	145.3 41.9	145.2 41.9	98.3 17.9	97.0 17.8	99. 18.
Washington	1	136.3	136.5	687.1	723.8	721.7	471.2	466.1	476.
Seattle-Bellevue-Everett		83.4	84.0	363.9	398.3	400.1	185.0	181.7	187.
Spokane		11.0	11.0	56.9	57.3	57.9	31.6	32.8	32.
Tacoma		12.6	12.6	64.8	64.3	64.1	48.2	32.6 48.5	49.
ISOVIES	1 11.7	, 12.0	, 12.0	ا ٥٠٠٠	U3	U-4.	40.2	40.0	43

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

(In thousands)

		Total			Mining		·	Construction	
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998 ^p
West Virginia	725.1	731.5	732.4	23.9	23.0	23.0	37.3	39.4	37.8
Charleston	134.0	135.5	136.3	2.0	1.8	1.8	7.3	7.6	7.5
Huntington-Ashland	121.8	122.3	123.1	1.4	1.1	1,2	5.9	5.4	5.2
Parkersburg-Manietta	70.6	71.4	71.9	ا عَا	.3	.3	4.5	4.6	4.4
Wheeling	67.7	68.1	67.8	1.6	1.5	1.5	2.6	3.1	3.0
Wisconsin	2,708.8	2.746.6	2,755.7	2.6	2.5	2.4	114.2	122.4	121.3
Appleton-Oshkosh-Neenah	196.5	200.7	201.3	(1)	(1)	(1)	10.9	11.8	11.9
Eau Claire	74.5	75.8	76.3	(15	(1)	(1)	3.2	3.6	3.5
Green Bay	136.4	137.0	136.6	(1)	<u> </u>	115	7.0	7.0	6.9
Janesville-Beloit	70.0	69.7	69.7	(1)	(1)	(1)	2.8	3.0	2.9
Kenosha	51.1	53.2	53.4	i (1)	(1)	(1)	2.2	2.2	2.2
La Crosse	69.8	70.4	70.6	(1)	(1)	(1)	2.9	3.2	3.0
Madison	273.5	278.2	280.9	1 (1)	(1)	(1)	12.9	14.0	14.1
Milwaukee-Waukesha	845.0	855.9	861.2	115	<u> </u>	(1)	31.9	33.6	33.7
Racine	83.5	83.9	83.9	(1)	(1)	(1)	3.4	3.8	3.6
Sheboygan	58.3	58.6	58.7	(1)	(1)	(1)	2.4	2.5	2.5
Wausau	65.6	66.7	67.3	(1)	(1)	(1)	3.0	3.2	3.4
Wyoming	222.9	230.9	226,2	17.1	17.7	17.5	15.9	17.1	15.9
Casper	30.3	31.6	31.4	2.2	2.3	2.2	1.7	2.1	2.0
Puerto Rico	975.8	938.1	947.5	1.1	1.2	1.2	56.1	55.3	56.4
Caguas	67.9	63.5	64.6	ו (י)	(1)	(1)	3.0	2.8	3.2
Mayaquez	69.2	66.5	68.0	(1)	(1)	(1)	4.5	4.5	4.5
Ponce	76.4	74.5	75.3	(1)	(1)	(1)	4.7	5.9	6.1
San Juan-Bayamon	609.5	586.9	594.5	` ´ .6	` .6	` ´ .6	38.2	37.7	38.6
Virgin Islands	40.7	41.3	41.4	(1)	(¹)	(¹)	2.0	1.9	1.9

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

(In thousands)

0		Manufacturing			ansportation a public utilities		Wholesale and retail trade			
State and area	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	
West Virginia	83.1	83.0	82.8	39.3	39.4	39.4	167.3	166.2	168.2	
Charleston	10.3	10.1	10.1	9.4	9.3	9.2	31.8	32.4	33.1	
Huntington-Ashland	16.7	15.6	15.7	6.7	6.9	7.0	32.2	32.2	32.8	
Parkersburg-Marietta	13.2	13.2	13.3	2.6	2.6	2.6	17.4	18.2	18.6	
Wheeling	6.1	6.2	6.1	3.0	2.9	3.0	17.6	16.9	17.0	
Wisconsin	614.7	616.7	616.3	124.7	125.8	125.6	620.1	623.3	632.1	
Apoleton-Oshkosh-Neenah	58.8	58.7	58.5	7.4	7.8	7.8	42.8	43.8	44.4	
Eau Claire	12.7	13.4	13.6	3.6	3.5	3.4	20.4	20.6	21.0	
Green Bay	28.5	28.9	28.8	9.9	9.8	9.8	32.0	31.8	32.0	
Janesville-Beloit	21.8	21.9	21.8	2.5	2.6	2.6	16.1	15.6	15.7	
Kenosha	11.5	11.5	11.6	2.1	2.4	2.4	12.3	12.4	12.6	
La Crosse	11.8	11.6	11.7	2.9	2.9	2.9	18.7	18.8	19.1	
Madison	29.5	30.1	30.1	9.6	10.1	10.1	59.4	57.9	59.0	
Milwaukee-Waukesha	178.2	177.7	178.7	40.3	41.1	41.5	183.3	183.6	186.3	
Racine	25.8	26.0	25.9	2.4	2.3	2.3	16.6	16.6	17.3	
Sheboygan	23.9	23.8	23.9	1.8	1.9	1.9	10.8	10.8	10.9	
Wausau	18.6	19.1	19.0	3.5	3.4	3.4	16.4	16.6	17.0	
Wyoming	11.2	11.6	11.3	14.0	13.9	14.0	51.8	53.2	52.4	
Casper	1.5	1.6	1.6	1.7	1.7	1.7	8.4	8.6	8.6	
Puerto Rico	148.7	139.6	140.0	26.2	24.0	24.3	201.0	191.0	195.8	
Caguas	16.0	14.8	14,7	.7	.6	.6	15.5	14.4	15.0	
Mayaguez	18.1	18.4	19.3	.6	.5	.5	11.9	11.4	11.7	
Ponce	10.3	9.2	9.0	2.2	2.1	2.0	13.7	12.9	13.3	
San Juan-Bayamon	67.9	61.5	62.1	20.8	18.3	18.5	132.3	125.2	129.9	
Virgin Islands	2.2	2.4	2.4	2.3	2.4	2.4	9.0	9.0	9.0	

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

(In thousands)

		ance, insuran and real estate			Services		Government			
State and area	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998	
West Virginia	28.4	28.8	28.9	203.2	209.3	208.9	142.6	142.4	143.4	
Charleston	7.6	8.0	8.1	40.9	42.2	42.3	24.7	24.1	24.2	
Huntington-Ashland	3.8	4.2	4.3	34.2	35.8	35.7	20.9	21.1	21.2	
Parkersburg-Marietta	2.6	2.6	2.6	20.3	20.3	20.5	9.7	9.6	9.6	
Wheeling	2.9	2.9	2.9	23.4	24.2	23.9	10.5	10.4	10.4	
Wisconsin	141.2	145.3	145.8	691.1	711.1	706.4	400.2	399.5	405.7	
Appleton-Oshkosh-Neenah	9.7	10.1	10.2	44.1	45.0	44.9	22.7	23.5	23.5	
Eau Claire	2.5	2.7	2.7	19.4	19.6	19.7	12.6	12.5	12.5	
Green Bay	9.2	9.3	9.2	33.5	34.0	33.5	16.3	16.2	16.2	
Janesville-Beloit	1.9	1.9	1.9	16.0	16.0	15.9	8.7	8.8	8.9	
Kenosha	1.7	1.8	1.8	13.2	14.4	14.3	8.1	8.5	8.5	
La Crosse	2.5	2.8	2.7	20.7	20.9	20.8	10.4	10.3	10.5	
Madison	21.4	22.2	22.2	68.3	70.9	71.1	72.4	72.9	74.2	
Milwaukee-Waukesha	58.4	59.6	59.7	261.7	269.4	268.5	91.2	90.8	92.8	
Racine	2.4	2.3	2.3	23.4	23.4	22.9	9.6	9.7	9.5	
Sheboygan	2.1	2.3	2.3	10.9	11.1	10.9	6.3	6.3	6.4	
Wausau	4.8	4.9	4.9	11.9	12.1	12.0	7.5	7.4	7.6	
Wyoming	8.2	8.4	8.5	45.8	49.8	47.0	58.9	59.2	59.6	
Casper	1.2	1.2	1.2	8.2	8.6	8.5	5.4	5.5	5.6	
Puerto Rico	46.1	45.6	45.4	192.6	186.7	188.0	304.0	294.7	296.4	
Caguas	1.8	1.9	1.9	12.3	11.8	11.8	18.6	17.2	17.4	
Mayaquez	2.0	1.8	1.8	11.3	9.6	9.8	20.8	20.3	20.4	
Ponce	2.3	2.3	2.3	16.9	16.1	16.6	26.3	26.0	26.0	
San Juan-Bayamon	36.3	35.6	35.6	129.0	128.7	129.1	184.4	179.3	180.1	
Virgin Islands	1.9	1.9	1.9	9.9	10.2	10.3	13.4	13.5	13.5	

Combined with construction.
 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 1997 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

	1987		Avera	ge weekly	hours	,		Averag	e overtim	e hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p
Total private		34.8	34.8	34.6	34.7	34.7	_	_	_	-	_
Goods-producing		41.4	42.0	41.4	41.2	41.8	<u>-</u>	_		_	_
Mining	1	45.6	45.2	43.9	43.9	43.5	_	_	_	_	_
Metal mining	. 10	44.4	44.5	43.4	44.0	_	_	_	_	_	_
Iron ores		46.1	45.5	44.7	43.5	-	_	-	_	-	-
Copper ores	. 102	45.4	46.2	46.3	45.7	-	-	-	-	-	-
Coal mining	. 12	45.2	44.8	45.0	45.6	_	l _	ا ـ	_	ا ـ	_
Bituminous coal and lignite mining		45.3	44.8	45.0	45.6	-	-	-	-	-	-
Oil and gas extraction	. 13	45.6	45.1	42.6	42.6	_	l _	_	_	_	_
Crude petroleum and natural gas	.]131	43.0	41.6	41.1	42.0	_	-	-	_	-	-
Oil and gas field services	. 138	46.9	46.8	43.3	43.0	-	-	-	-	-	-
Nonmetalfic minerals, except fuels	. 14	46.8	46.6	47.0	45.7	-		-	- ,		-
Crushed and broken stone	. 142	48.5	48.0	49.4	47.9	-	-	-	-	-	-
Construction	.	37.8	38.5	40.0	38.5	39.2	-	-	-	-	-
General building contractors	. 15	37.6	38.2	38.7	37.9	-	_	_	_	-	_
Residential building construction	. 152	36.5	36.7	37.3	36.8	-	-	-	-	-	_
Operative builders		37.3	37.9	37.4	36.6	-	-	- 1	-	-	-
Nonresidential building construction	. 154	38.7	39.7	40.2	39.1	-	-	-	~	_	-
Heavy construction, except building		39.4	40.9	44.5	41.2	-		-	-	-	_
Highway and street construction Heavy construction, except highway		37.4 40.2	38.8 41.6	45.4 44.1	40.3 41.6	_		-	-	_	_
	1										
Special trade contractors	. 17	37.6 39.2	38.1 39.7	39.2 39.8	38.1 39.3	-	-	-	~	-	_
Painting and paper hanging	172	36.5	36.8	37.6	36.5	_		_	-	_	_
Electrical work		39.6	40.3	40.1	39.7	_	_ :	_	_	_	_
Masonry, stonework, and plastering	. 174	35.0	35.4	37.0	35.8	-	- 1	_	_	_	_
Carpentry and floor work		35.7	36.2	37.1	37.0	-	- :	-	-	-	_
Roofing, siding, and sheet metal work	. 176	32.7	33.3	36.6	34.1	-	-	-	~	-	-
Manufacturing		42.6	43.0	41.9	42.1	42.6	5.2	5.4	4.7	4.7	4.9
Durable goods		43.3	43.9	42.5	42.7	43.3	5.5	5.8	4.8	4.9	5.2
Lumber and wood products	. 24	41.4	41.2 40.7	41.5	41.5 40.5	41.8	4.5 5.1	4.4 5.4	4.6 6.0	4.6 5.3	-
LoggingSawmills and planing mills		42.3	42.4	42.1 42.5	40.5	_	5.1	5.4 5.1	5.0	4.9	_
Sawmills and planing mills, general		42.7	42.6	42.9	42.9	_	5.5	5.5	5.5	5.3	_
Hardwood dimension and flooring mills		41.2	41.6	41.3	41.4		3.7	3,7	3.5	3.6	_
Millwork, plywood, and structural members		42.2	41.7	41.8	42.4	-	4.9	4.6	4.8	5.1	-
Millwork	. 2431	41.9	41.2	41.4	42.3	-	4.3	3.6	4.2	4.7	-
Wood kitchen cabinets	. 2434	41.8	41.5	40.8	41.3	[-	5.3	5.5	4.5	4.8	-
Hardwood veneer and plywood		42.3	43.0	42.7	43.0	-	4.7	5.3	5.4	5.8	-
Softwood veneer and plywood Wood containers		44.9 39.7	44.1 39.9	43.3 39.0	44.3 39.1	-	6.1 3.7	5.8 3.9	6.1 3.4	6.7	_
Wood buildings and mobile homes		39.6	38.6	40.2	39.4		2.9	2.7	3.3	3.5 2.8	-
Mobile homes		39.6	38.5	40.4	39.4		2.7	2.7	3.2	2.6	_
Miscellaneous wood products		40.9	40.6	40.7	41.2	-	3.9	3.5	3.7	4.1	-
Furniture and fixtures	. 25	41.2	42.1	40.8	40.8	41.6	3.9	4,3	3,7	3.6	_
Household furniture	. 251	40.1	41.2	39.8	39.8	-	3.2	3.8	3.0	2.9	_
Wood household furniture		40.4	41.3	40.3	40.5	- :	3.1	3.2	3.2	3.4	l –
Upholstered household furniture		39.7	41.9	39.5	39.0	-	3.0	4.2	2.7	2.4	-
Metal household furniture	. 2514	41.8	40.8	39.7	39.9	-	5.0	5.6	3.3	3.3	-
Mattresses and bedsprings	. 2515	38.7	39.1	38.0	38.7	-	3.2	3.4	2.6	2.3	-
Office furniture		44.0	45.4	43.5	44.0	-	5.5	6.0	4.3	4.5	-
Public building and related furniture Partitions and fixtures		40.8 42.9	41.1 43.1	42.0 42.7	40.7 42.2	_	3.9 4.7	4.0	5.4	4.5	-
G (II)				39.3	42.2	- '	5.2	4.7 5.6	5.1	4.3	-
Miscellaneous furniture and fixtures	. 259	42.8	43.3			1 -			3.5	4.4	

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

	1987		Averag	e hourly e	arnings			Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998 ^p
Total private		\$12.53	\$12.53	\$12.92	\$12.99	\$12.99	\$436.04	\$436.04	\$447.03	\$45 0.75	\$450.75
Goods-producing		14.12	14.21	14.49	14.49	14.55	584.57	596.82	599.89	596.99	608.19
Mining		16.41	16.52	17.13	17.32	17.41	748.30	746.70	752.01	760.35	757.34
Metal mining	. 10	18.28	18.02	18.44	18.46	-	811.63	801.89	800.30	812.24	-
Iron ores	. 101	19.74 16.51	19.16 16.38	20.78 17.02	20.39 17.08	-	910.01 749.55	871.78 756.76	928.87 788.03	886.97 780.56	-
Copper ores	1	10.51		17.02		_					1
Coal mining Bituminous coal and lignite mining	. 12 . 122	19.10 19.36	19.47 19.73	19.15 19.41	19.26 19.50	-	863.32 877.01	872.26 883.90	861.75 873.45	878.26 889.20	-
Oil and gas extraction	. 13	16.00	16.10	17.10	17.37	-	729.60	726.11	728.46	739.96	-
Crude petroleum and natural gasOil and gas field services	.∤131	21.74 13.35	21.99 13.47	23.16 14.05	23.48 14.14	-	934.82 626.12	914.78 630.40	951.88 608.37	986.16 608.02	-
Nonmetallic minerals, except fuels		14.32 13.69	14.36 13.72	14.96 14.24	14.98 14.13	-	670.18 663.97	669.18 658.56	703.12 703.46	684.59 676.83	-
Construction	.}	16.28	16.37	16.86	16.80	16.83	615.38	630.25	674.40	646.80	659.74
General building contractors	. 15	15.55	15.67	16.15	16.17	-	584.68	598.59	625.01	612.84	-
Residential building construction	. 152	14.46	14.62 15.38	15.05 15.38	15.04 15.47		527.79 567.33	536.55 582.90	561.37 575.21	553.47 566.20	<u> </u>
Nonresidential building construction		16.62	16.66	17.23	17.29	-	643.19	661.40	692.65	676.04	-
Heavy construction, except building	. 16	15.74	15.59	16.75	16.49	_	620.16	637.63	745.38	679.39	-
Highway and street construction	.∤161	15.74 15.73	15.33 15.67	16.87 16.69	16.28 16.58	-	588.68 632.35	594.80 651.87	765.90 736.03	656.08 689.73	-
Special trade contractors	. 17	16.65	16.78	17.12	17.09	-	626.04	639.32	671.10	651.13	-
Plumbing, heating, and air conditioning	. 171	16.80	17.06	17.37	17.24	_	658.56 547.50	677.28 552.37	691.33 588.06	677.53 568.31	_
Painting and paper hanging Electrical work	. 172	15.00 18.08	15.01 18.21	15.64 18.70	15.57 18.64	_	715.97	733.86	749.87	740.01	-
Masonry, stonework, and plastering		16.44	16.48	16.83	16.89	_	575.40	583.39	622.71	604.66	-
Carpentry and floor work	. 175	16.35	16.67	16.56	16.75	-	583.70	603.45	614.38	619.75	-
Roofing, siding, and sheet metal work	176	14.57	14.61	14.94	14.91	_	476.44	486.51	546.80	508.43	-
Manufacturing		13.36	13.47	13.54 14.03	13.60 14.08	13.69 14.17	569.14 604.04	579.21 617.67	567.33 596.28	572.56 601.22	583.19 613.56
Durable goods Lumber and wood products	. 24	13.95	14.07 10.93	11.23	11.26	11.34	451.67	450.32	466.05	467.29	474.01
Logging	241	12.38	12.24	12.85	12.84		498.91	498.17	540.99	520.02	-
Sawmills and planing mills	. 242	10.95	10.98	11.18	11.19	-	463.19	465.55	475.15	475.58	-
Sawmilis and planing mills, general	. 2421	11.40	11.42	11.64	11.64	-	486.78	486.49	499.36	499.36	-
Hardwood dimension and flooring mills		9.20	9.31	9.51	9.61	-	379.04	387.30	392.76	397.85	-
Millwork, plywood, and structural members	. 243	11.04	11.04	11.34 11.46	11.41 11.52	_	465.89 467.60	460.37 455.67	474.01 474.44	483.78 487.30	_
Millwork		11.16	11.06 10.91	11.13	11.22	_	451.44	453.07	454.10	463.39	1 [
Hardwood veneer and plywood		9.62	9.80	10.09	10.16	_ ;	406.93	421.40	430.84	436.88	_
Softwood veneer and plywood		13.24	13.21	13.55	13.59	- '	594.48	582.56	586.72	602.04	_
Wood containers	. 244	8.55	8.61	9.05	8.99	- '	339.44	343.54	352.95	351.51	-
Wood buildings and mobile homes	245	11.11	11.30	11.47	11.49	-	439.96	436.18	461.09	452.71	-
Mobile homes	2451 249	11.31 10.28	11.53 10.37	11.63 10.52	11.67 10.59	-	447.88 420.45	443.91 421.02	469.85 428.16	459.80 436.31	1 -
			i			ŀ			1		
Furniture and fixtures	25	10.69	10.79	10.99	10.98	11.10	440.43	454.26	448.39	447.98	461.76
Household furniture		10.10	10.19	10.35	10.39	_	405.01 387.84	419.83 398.55	411.93	413.52 405.41	-
Wood household furniture Upholstered household furniture		9.60	9.65 10.97	9.98	10.01 11.15] _	427.17	459.64	402.19 438.85	434.85	l <u>-</u>
Metal household furniture	2514	9.82	9.75	9.80	9.76	l	410.48	397.80	389.06	389.42	l <u>-</u>
Mattresses and bedsprings	. 2515	10.70	10.67	10.67	10.84	_	414.09	417.20	405.46	419.51	-
Office furniture		11.79	11.85	11.81	11.88	-	518.76	537.99	513.74	522.72	-
Public building and related furniture		11.63	11.75	12.27	12.22	! –	474.50	482.93	515.34	497.35	-
Partitions and fixtures	254	11.39	11.55	11.79	11.61	-	488.63	497.81	503.43	489.94	ļ -
Miscellaneous furniture and fixtures	1259	10.76	10.80	11.04	11.06	-	460.53	467.64	433.87	454.57	(-

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

	1987	<u> </u>	Avera	ge weekly	hours			Average	overtim	e hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Ourable goods—Continued											
Stone, clay, and glass products	32	43.1	43.7	44.0	43.6	43.7	5.8	5.8	6.9	6.3	_
Flat glass		45.9	46.0	42.8	42.6	-	7.2	7.2	7.2	6.9	
Glass and glassware, pressed or blown		43.0	43.3	42.4	42.9		5.0	4.8	5.3	5.5	1 -
Glass containers		44.9	45.8	44.3	44.6	· '	6.4	6.4	6.7	6.7	ř .
					41.9	- :		3.8		4.8	1 -
Pressed and blown glass, nec		41.9	41.8	41.2		-	4.1		4.4		-
Products of purchased glass		42.7	43.3	43.7	43.8	-	5.5	5.4	5.7	5.3	-
Cement, hydraulic		46.1	45.5	44.3	44.9	-	6.1	5.7	5.8	5.4	- 1
Structural clay products		42.5	42.7	41.7	42.2	-	4.8	4.7	5.2	5.0	-
Pottery and related products		42.2	42.4	41.4	41.8	-	5.7	5.2	5.0	4.9	-
Concrete, gypsum, and plaster products		43.1	43.9	46.5	45.0		6.3	6.5	9.2	7.9	-
Concrete block and brick		45.3	44.7	48.5	47.3	(-	7.7	7.3	10.4	9.8	-
Concrete products, nec		43.1	44.5	45.3	45.2	i - :	6.0	6.4	8.1	7.7	-
Ready-mixed concrete	3273	41.8	42.5	46.6	43.9	-	5.9	6.0	9.6	7.4	-
Misc. nonmetallic mineral products	329	43.4	44.3	42.3	42.8	-	5.6	5.9	5.4	5.4	l –
Abrasive products	3291	43.9	44.2	41.8	42.0	_	4.2	4.5	2.8	2.8	_
Asbestos products		47.6	48.5	48.3	49.0	-	8.4	8.7	11.4	11.3	-
Primary metal industries	33	45.5	46.1	43.6	44.1	44.7	7.0	7.3	6.1	6.2	_
Blast furnaces and basic steel products	331	45.5	46.0	43.2	43.1	44.1	6.6	6.7	5.3	5.1	l _
Blast furnaces and steel mills		45.9	46.2	43.3	43.2	'-''	6.8	6.8	5.5	5.2	l –
Steel pipe and tubes		45.3	46.4	43.8	43.6	_	7.1	7.8	5.5	5.4	_
fron and steel foundries	1332	46.6	47.8	44.3	45.0	_	7.6	8.1	6.3	6.4	_
			i i		45.6		8.6		7.2		l .
Gray and ductile iron foundries		47.4	48.6	45.0		-		9.1		7.3	-
Malleable iron foundries		54.6	53.6	46.2	46.5		10.7	9.8	7.8	7.7	-
Steel foundries, nec		44.2	45.5	43.2	44.0	-	5.6	6.7	5.1	5.3	-
Primary nonferrous metals		45.0	45.1	42.3	43.7	-	6.7	6.2	6.4	7.3	-
Primary aluminum		44.6	45.2	43.5	44.7		6.6	6.2	7.3	8.2	l –
Nonferrous rolling and drawing		46.0	46.2	43.7	44.5	- 1	8.2	8.4	7.2	7.5	-
Copper rolling and drawing	3351	44.8	44.9	43.0	44.6	- 1	7.9	8.0	7.2	8.7	-
Aluminum sheet, plate, and foil	3353	47.3	47.5	42.8	43.2	- 1	10.8	10.4	9.6	9.4	-
Nonferrous wire drawing and insulating ,		46.2	46.7	44.2	44.9	- 1	7.9	8.4	7.0	7.1	l –
Nonferrous foundries (castings)		44.0	44.7	43.9	44.5	_	5.6	6.2	5.6	5.8	l –
Aluminum foundries		44.1	44.2	44.5	45.2	-	5.6	5.5	6.0	6.1	-
Fabricated metal products	34	43.3	44.0	42.6	42.8	43.6	5.5	5.8	5.0	4.9	_
Metal cans and shipping containers	341	43.3	43.9	43.8	43.8	_	5.8	5.7	6.7	6.5	l _
Metal cans	3411	43.7	44.7	43.8	43.7		5.7	5.7	6.7	6.5	١ _
Cutlery, handtools, and hardware		44.1	44.7	42.8	42.9	_	5.3	5.6	4.6	4.5	_
Hand and edge tools, and blades and handsaws		44.2	44.9	43.7	44.1	_	5.2	5.4	5.2	5.3	_ ا
Hardware, nec		44.1	44.8	42.4	42.2	_	5.4	5.8	4.2	4.1	_
		41.9	42.8	43.3	43.3	_ :	4.8	5.2	4.3	4.0	
Plumbing and heating, except electric		41.6	43.3	41.6	41.4	- 1	4.4	5.6	3.3	3.3	_
Plumbing fixture fittings and trim						1					
Heating equipment, except electric		42.7	42.9	42.7	43.7	-	5.1	5.2	5.5	5.0	-
Fabricated structural metal products		42.8	43.4	42.5	42.8	-	5.2	5.3	5.2	5.2	-
Fabricated structural metal		43.5	44.5	44.0	44.7	- 1	6.5	6.9	7.3	7.0	-
Metal doors, sash, and trim		41.B	41.8	41.9	41.9	- 1	3.9	3.9	4.3	4.0	-
Fabricated plate work (boiler shops)		44.3	45.1	42.6	43.3	-	6.0	6.1	5.2	5.3	-
Sheet metal work		41.5	42.4	41.5	41.6	-	4.4	4.6	4.3	4.2	-
Architectural metal work		42.3	42.7	42.2	42.7	-	4.5	4.6	4.9	5.2	-
Screw machine products, bolts, etc	345	44.6	45.7	43.0	43.3	-	6.4	7.1	5.3	5.1	-
Screw machine products		43.3	43.9	41.7	41.6	-	5.8	6.2	4.6	4.3	- ا
Bolts, nuts, rivets, and washers		46.1	47.8	44.6	45.4	-	7.2	8.1	6.2	6.0	ا –
Metal forgings and stampings		44.6	45.2	43.7	43.7	-	6.7	6.9	5.7	5.6	_
iron and steel forgings		46.4	47.1	43.5	44.3	-	7,7	7.8	5.7	5.9	_
Automotive stampings		45.3	45.9	44.9	44.6	_	7.3	7.6	6.3	6.2	_
Metal stampings, nec		42.6	42.9	41.4	41.6	_	5.1	5.3	4.3	4.3	-
		41.8	42.9	41.8	41.6	-		5.6	4.3 5.2	4.9	ı -
Metal services, nec		4				1 .	5.1				-
Plating and polishing		41.3	42.0	41.5	41.5	-	4.8	5.3	5.1	4.9	-
Metal coating and allied services		42.7	43.8	42.3	42.0	- :	5.6	6.0	5.3	4.9	l -
Ordnance and accessories, nec		41.0	41.0	40.5	40.6	- 1	3.7	3.7	3.3	3.6	-
Ammunition, except for small arms, nec		41.5	42.3	42.7	41.8	i - :	3.8	4.0	3.4	3.4	-
The state of the s				41.5	41.9	l – :	5,1	5.4	3.9	3.9	۱ –
Misc. fabricated metal products	. 349	43.4	44.1	41.5	41.5		J. 1] 3.7	0.5	0.5	1 -
		43.4 43.3	44.1	41.6	41.8	- '	5.1	4.5	4.2	4.0	_

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

	1987		Averag	e hourly e	arnings			Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P
Ourable goods—Continued										,	1
Stone, clay, and glass products	32	\$13.36	\$13.39	\$13.68	\$13.67	\$13.72	\$575.82	\$585.14	\$601.92	\$596.01	\$599.5
Flat glass	321	18.90	19.16	17.95	18.05	-	867.51	881.36	768.26	768.93	- 1
Glass and glassware, pressed or blown	322	15.15	15.24	15.57	15.56	-	651.45	659.89	660.17	667.52	-
Glass containers	3221	15.82	15.86	16.53	16.41	-	710.32	726.39	732.28	731.89	i -
Pressed and blown glass, nec	3229	14.70	14.82	14.93	15.00	-	615.93	619.48	615.12	628.50	-
Products of purchased glass	323	12.10	12.06	12.21	12.10	- 1	516.67	522.20	533.58	529.98	ì –
Cement, hydraulic	324	18.32	17.82	18.82	19.16	-	844.55	810.81	833.73	860.28	i -
Structural clay products	325	11.48	11.59	12.14	12.05	-	487.90	494.89	506.24	508.51	-
Pottery and related products		11.63	11.67	11.78	11.87	-	490.79	494.81	487.69	496.17	-
Concrete, gypsum, and plaster products	327	12.74	12.80	13.37	13.26	-	549.09	561.92	621.71	596.70	-
Concrete block and brick	32/1	12.34	12.35	12.65	12.51	-	559.00	552.05	613.53	591.72 535.62	-
Concrete products, nec	32/2	11.39	11.49	11.98	11.85	-	490.91	511.31	542.69	620.31	_
Ready-mixed concrete	132/3	13.52	13.61	14.23	14.13	-	565.14 596.75	578.43 609.57	663.12 577.82	591.50	l
Misc. nonmetallic mineral products	329	13.75	13.76	13.66	13.82	_	538.65	541.01	522.50	531.72	-
Abrasive products	3291	12.27	12.24	12.50	12.66	_	756.84	759.51	742.37	741.37	I -
Asbestos products	3292	15.90	15.66	15.37	15.13	-	/ 30.04	759.51	142.31	741.37	_
Primary metal industries	33	15.38	15.42	15.31	15.31	15.38	699.79	710.86	667.52	675.17	687.
Blast furnaces and basic steel products	331	18.28	18.15	18.21	18.30	18.18	831.74	834.90	786.67	788.73	801.
Blast furnaces and steel mills	3312	19.95	19.75	19,94	20.03	-	915.71	912.45	863.40	865.30	[-
Steel pipe and tubes	3317	14.27	14.30	13.79	13.87	-	646.43	663.52	604.00	604.73] -
Iron and steel foundries	332	14.06	14.19	13.92	13.79	-	655.20	678.28	616.66	620.55	-
Gray and ductile iron foundries	3321	15.05	15.18	14.48	14.30	-	713.37	737.75	651.60	652.08	-
Malleable iron foundries	3322	15.13	15.96	14.79	14.13	-	826.10	855.46	683.30	657.05	-
Steel foundries, nec	3325	12.86	12.94	13.64	13.58	-	568.41	588.77	589.25	597.52	-
Primary nonferrous metals	333	16.89	16.91	17.18	17.21	-	760.05	762.64	726.71	752.08	-
Primary aluminum	3334	17.02	17.01	17.10	17,14	-	759.09	768.85	743.85	766.16	-
Nonferrous rolling and drawing		14.58	14.72	14.36	14.38	-	670.68	680.06	627.53	639.91	-
Copper rolling and drawing		14.78	15.09	15.31	15.45	-	662.14	677.54	658.33	689.07	-
Aluminum sheet, plate, and foil	3353	16.90	16.73	16.55	16.54	-	799.37	794.68	708.34	714.53	-
Nonferrous wire drawing and insulating	3357	14.59	14.83	14.24	14.03	_	674.06	692.56	629.41 540.85	629.95 551.36	_
Nonferrous foundries (castings)	336	12.03 11.54	12.28 11.81	12.32 11.84	12.39 11.96		529.32 1 508.91	548.92 522.00	526.88	540.59	-
Aluminum foundries	3305	11.54	11.01	11.04	11.50		300.91	322.00	520.00	540.55	1
Fabricated metal products	34	12.93	13.03	13.19	13.23	13.36	559.87	573.32	561.89	566.24	582.
Metal cans and shipping containers	341	16.24	16.49	16.65	16.69	-	703.19	723.91	729.27	731.02	l –
Metal cans	3411	17.26	17.48	17.77	17.84	-	754.26	781.36	778.33	779.61	_
Cutlery, handtools, and hardware		12.34	12.45	12.18	12.32	-	544.19	556.52	521.30	528.53	-
	3423,5	12.11	12.22	12.44	12.46	-	535.26	548.68	543.63	549.49	-
Hardware, nec	3429	12.51	12.69	12.16	12.35	-	551.69	568.51	515.58	521.17	-
Plumbing and heating, except electric	343	11.94	12.04	11.90	11.93	-	500.29	515.31	515.27	516.57 481.90	ļ
Plumbing fixture fittings and trim	3432	11.71	11.67	11.47	11.64	-	487.14	505.31	477.15	i	-
Heating equipment, except electric	3433	11.82	11.87	12.39	12.31	-	504.71	509.22	529.05	537.95 541.42	-
Fabricated structural metal products		12.31	12.36	12.64	12.65	- -	526.87 543.75	536.42	537.20 576.84	541.42	_
Fabricated structural metal		12.50	12.56	13.11	12.98	_	438.48	558.92	447.49	448.75	_
Metal doors, sash, and trim	3442	10.49	10.58	10.68 13.96	10.71 14.07	_ !	605.14	442.24 613.36	594.70	609.23	_
Fabricated plate work (boiler shops)	3443	13.66	13.60 12.62	12.90	12.87	_	520.41	535.09	535.35	535.39	1 -
Sheet metal work	3446	11.69	11.73		12.09] [494.49	500.87	501.76	516.24]
Architectural metal work		13.05	13.13	13.43	13.48		582.03	600.04	577.49	583.68	
Screw machine products, boils, etc	2451	12.46	12.49	12.72	12.71		539.52	548.31	530.42	528.74	_
Bolts, nuts, rivets, and washers	3452	13.70	13.83	14.22	14.31	-	631.57	661.07	634.21	649.67	
Metal forgings and stampings	346	15.20	15.38	15.49	15.49	- 1	677.92	695.18	676.91	676.91	l _
Iron and steel forgings	3462	14.52	14.64	14.71	14.71	'	673.73	689.54	639.89	651.65	l _
Automotive stampings	3465	17.45	17.74	17.85	17.86		790.49	814.27	801.47	796.56	1 _
Metal stampings, nec	3469	12.41	12.49	12.66	12.72	_	528.67	535.82	524.12	529.15	-
Metal services, nec	347	10.B4	10.98	11.26	11.23	_	453.11	468.85	470.67	468.29	l _
Plating and polishing		10.73	10.84	11.13	11.15	_	443.15	455.28	461.90	462.73	۱ –
Metal coating and allied services		11.02	11.19	11.47	11.35	_	470.55	490.12	485.18	476.70	_
Ordnance and accessories, nec		15.50	15.33	15.36	15.67	_	635.50	628.53	622.08	636.20	_
		16.50	15.87	16.34	16.73	_	684,75	671.30	697.72	699.31	I _
Ammunition, except for small arms, nec											
Ammunition, except for small arms, nec	349					-	535 99		523 32		- 1
Ammunition, except for small arms, nec	349	12.35 12.53	12.43 12.55	12.61 12.91	12.68 12.91		535,99 542.55	548.16 545.93	523.32 537.06	531.29 539.64	-

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

	1987		Avera	ge weekly	hours			Average	e overtim	ne hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec 1998
urable goods. Continued											
Purable goods—Continued Industrial machinery and equipment	35	44.0	44.8	42.4	42.6	43.0	5.9	6.5	4.8	4.9	l _
Engines and turbines		45.4	46.5	43.6	44.8		6.7	7.6	5.9	7.0	· _
Turbines and turbine generator sets		43.2	45.0	43.4	44.7	-	5.8	7.2	4.8	5.9	ł
Internal combustion engines, nec	3510	46.2	47.0	43.6	44.8	_	7.1	7.8	6.3	7.3	-
Farm and garden machinery		42.9	44.3	40.9	40.9	_	5.0	5.7	2.9	2.7	
Farm machinery and equipment		43.6	44.5	41.5	41.4	_	5.5	6.0	3.0	2.7	_
Construction and related machinery		45.1	45.9	43.3	43.1		6.4	6.8	5.1	5.2	-
		44.1	44.9	42.5	42.6	_	5.3	5.9	4.3	4.4]]
Construction machinery					40.6	-					Į.
Mining machinery		42.7	43.2	41.4			4.8	5.1	3.5	3.4	-
Oil and gas field machinery		49.9	50.3	46.3	44.9	-	10.5	10.3	7.7	7.0	-
Conveyors and conveying equipment		43.4	45.1	42.0	42.9	- 1	5.5	6.2	4.5	5.5	-
Industrial trucks and tractors		42.2	42.6	42.6	41.3	-	4.5	4.6	4.5	4.3	-
Metalworking machinery		44.5	45.4	43.0	43.4	-	6.6	7.2	5.4	5.6	-
Machine tools, metal cutting types		44.4	45.8	42.9	42.7	-	6.6	7.0	5.0	4.9	l -
Machine tools, metal forming types		45.9	47.4	43.9	44.2	-	7.0	8.1	5.7	5.9	-
Special dies, tools, jigs, and fixtures		44.4	45.4	43.6	44.0	-	7.1	7.7	6.2	6.4	-
Machine tool accessories		43.7	45.0	41.7	42.3	-	5.2	5.9	3.9	4.1	-
Power driven handtools	3546	43.8	44.1	41.6	43.3	-	5.3	5.7	3.7	4.7	l -
Special industry machinery	355	43.7	44.3	41.8	42.1	-	5.7	6.1	4.6	4.6	-
Textile machinery	3552	41.7	42.4	39.5	40.2	_]	4.2	4.8	3.3	3.8	-
Printing trades machinery		43.0	42.6	41.3	42.5	- 1	5.4	5.5	4.5	4.9	-
Food products machinery		42.2	44.0	42.4	42.7	_	4.8	5.4	5.0	5.0	
General industrial machinery		43.8	44.7	41.8	42.0		5.6	6.3	4.4	4.3	١ -
Pumps and pumping equipment		42.9	43.0	40.4	41.6	_	5.1	5.7	3.9	4.2	-
Ball and roller bearings	3562	43.9	44.9	42.6	42.0	-	6.8	7.6	5.3	4.9	- ا
Air and gas compressors	3563	44.1	44.6	42.6	43.2	_	5.5	6.3	4.8	4.8	١.
Blowers and fans		44.3	45.4	42.8	43.2	-	5.0	5.6	3.7	3.8	١ -
Speed changers, drives, and gears		44.5	46.7	41.6	41.3		6.4	7.8	5.0	4.5	١.
Power transmission equipment, nec		43.1	43.B	41.2	41.1	_	5.8	6.0	3.8	3.4	l _
Computer and office equipment		42.8	42.8	42.3	42.3	-	4.4	5.3	4.3	4.5	
Electronic computers		42.8	43.0	42.6	42.1	_	4.1	5.7	4.6	4.9	
Computer terminals, calculators, and	3371	42.0	40.0	42.0	72.1	_	7.1	3.7	4.0	7.5	(-
office machines, nec	3575 8 9	42.6	44.5	42.3	42.6	_	5.1	6.2	4.5	4.7	ί.
Refrigeration and service machinery		44.8	45.8	42.5	42.4		5.4	5.9	4.2	4.2	٠.
Refrigeration and heating equipment		45.4	46.4	42.9	42.5	_	5.8	6.3	4.6	4.5	
Misc. industrial and commercial machinery		43.5	44.4	42.1	42.6	_	6.2	6.7	5.0	5.0	
Carburetors, pistons, rings, valves	3592	41.4	43.0	41.3	41.1	_	4.9	5.8	5.1	5.2	
Scales, balances, and industrial machinery, nec		43.3	44.2	42.1	42.6	_	6.3	6.7	5.1	5.1	-
Electronic and other electrical equipment	36	42.7	43.1	41.5	42.1	42.3	4.7	5.0	3.9	4.1	۱ -
Electric distribution equipment	361	42.5	42.7	40.4	41.2	_	4.9	5.3	3.8	3.9	-
Transformers, except electronic		43.4	43.9	41.8	42.3	_	4.5	4.7	3.5	3.8	۱ -
Switchgear and switchboard apparatus		41.6	41.6	39.2	40.2	_	5.2	5.8	4.0	4.0	-
Electrical industrial apparatus		42.5	44.1	41.4	42.0	_	4.1	4.8	3.5	3.5	١.
Motors and generators		42.1	44.6	41.8	42.0	_	3.7	4.8	3.6	3.4	
Relays and industrial controls		42.3	42.5	40.6	41.7		4.4	4.6	3.2	3.6	Ι.
Household appliances		41.1	42.8	40.4	40.3	_ !	3.1	4.2	2.7	2.3	١.
Household refrigerators and freezers		39.9	43.7	42.5	42.B		2.1	3.1	2.7	2.6	.
	3633	41.3	42.7	39.1	39.9	_	2.2	3.4	2.6	2.3	
Electric housewares and fans		42.1	42.0	40.1	40.4		3.7	3.4	2.0	2.0	1 -
Electric lighting and wiring equipment		42.2	43.0	41.7	42.1	1 -	4.7	5.1	4.3	4.5	1 -
Electric lamps		42.4	42.4	41.0	41.5	_ !	4.9	4.8	4.3	4.5	
											-
Current-carrying wiring devices		41.9	42.1	41.9	41.2	-	4.8	4.6	4.4	4.4	-
Noncurrent-carrying wiring devices		42.7	44.4	42.4	42.9	- 1	3.7	4.1	4.2	4.2	l -
Residential lighting fixtures		39.4	40.6	39.7	40.1		3.4	4.0	3.2	3.3	-
Household audio and video equipment		43.5	41.8	40.7	41.7	- :	5.8	5.0	5.2	5.5	-
Household audio and video equipment		41.8	41.3	40.6	40.3	-	3.9	4.1	3.9	3.8	-
Communications equipment	366	43.6	44.0	42.8	43.0	- :	4.6	4.7	3.5	3.6	-
Telephone and telegraph apparatus	3661	45.6	45.2	44.3	45.2	-	4.8	4.7	3.8	4.2	١ -
Electronic components and accessories	367	42.7	42.9	41.2	42.4	- ;	4.9	5.0	3.9	4.3	١.
Electron tubes	3671	41.0	41.7	42.3	43.0	- '	4.6	4.4	2.6	3.0	١ -
Semiconductors and related devices		43.5	42.8	42.0	43.3	- 1	5.1	5.0	4.8	5.1	١ -
Electronic components, nec		42.4	42.7	41.2	42.2	-	4.7	4.8	3.4	3.9	
Misc. electrical equipment and supplies	369	43.2	43.6	42.7	42.6	l –	5.2	5.8	5.1	5.0	١ ـ
				44.2	44.4	۱ _	5.1	5.2	5.1	5.3	Ι.
Storage batteries	13691	43.6	43.3	44.2	44.4	-	1.1				

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

	1987		Averag	e hourly e	amings			Averag	je weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p
Ourable goods—Continued										i	
Industrial machinery and equipment	35	\$14.30	\$14.41	\$14.55	\$14.63	\$14.69	\$629.20	\$645.57	\$616.92	\$623.24	\$631.6
Engines and turbines		16.96	17.14	17.47	17.68	-	769.98	797.01	761.69	792.06	_
Turbines and turbine generator sets	3511	20.02	20.17	19.37	19.91	-	864.86	907.65	840.66	889.98	-
Internal combustion engines, nec	3519	15.95	16.10	16.87	16.98	-	736.89	756.70	735.53	760.70	-
Farm and garden machinery	352	14.03	13.94	13.60	13.56	- 1	601.89	617.54	556.24	554.60	-
Farm machinery and equipment	3523	14.80	14.76	14.24	14.25	-	645.28	656.82	590.96	589.95	-
Construction and related machinery	353	13.60	13.57	13.74	13.80	-	613.36	622.86	594.94	594.78	-
Construction machinery		14.04	13.89	13.89	13.95	-	619.16	623.66	590.33	594.27	
Mining machinery	3532	14.36	14.63	14.69	14.75	-	613.17 669.66	632.02 668.99	608.17 641.72	598.85 614.23	_
Oil and gas field machinery		13.42	13.30	13.86 13.95	13.68 14.31	-	592.84	622.83	585.90	613.90	_
Conveyors and conveying equipment		13.66 12.61	13.81 12.67	12.77	12.92	_	532.14	539.74	544.00	533.60	1 _
Industrial trucks and tractors		15.06	15.24	15.43	15.55	_	670.17	691.90	663.49	674.87	_
Metalworking machinery		14.78	14.75	14.99	15.53	_	656.23	675.55	643.07	646.05	_
Machine tools, metal cutting types		15.50	15.60	15.89	16.20	_	711.45	739.44	697.57	716.04	_
Special dies, tools, jigs, and fixtures		15.80	16.00	16.15	16.27	_	701.52	726.40	704.14	715.88	
Machine tool accessories		13.20	13.37	13.51	13.60	_	576.84	601.65	563.37	575.28	-
Power driven handtools		12.40	12.53	12.65	12.71	_	543.12	552.57	526.24	550.34	-
Special industry machinery		14.86	15.15	15.14	15.19	_	649.38	671.15	632.85	639.50	-
Textile machinery	3552	12.90	13.27	13.24	13.24	_	537.93	562.65	522.98	532.25	-
Printing trades machinery		15.97	16.38	16.07	16.20	-	686.71	697.79	663.69	688.50	-
Food products machinery		14.54	14.66	15.07	15.12	-	613.59	645.04	638.97	645.62	-
General industrial machinery		13.93	14.13	14.11	14.13	-	610.13	631.61	589.80	593.46	-
Pumps and pumping equipment		14.63	14.94	15.04	15.07	_	627.63	642.42	607.62	626.91	-
Ball and roller bearings		15.21	15.38	14.91	15.03	-	667.72	690.56	635.17	631.26	-
Air and gas compressors		14.84	15.33	14.83	14.76	-	654.44	683.72	631.76	637.63	-
Blowers and fans	3564	11.67	11.80	11.56	11.59	-	516.98	535.72	494.77	500.69	-
Speed changers, drives, and gears		14.92	15.06	15.18	15.09	-	663.94	703.30	631.49	623.22	-
Power transmission equipment, nec		13.34	13.54	13.72	13,63	-	574.95	593.05	565.26	560.19	-
Computer and office equipment	357	14.74	14.73	15.73	15.94	-	630.87	630.44	665.38	674.26	-
Electronic computers	3571	16.27	15.99	17.45	17.68	-	696.36	687.57	743.37	744.33	-
Computer terminals, calculators, and	l						577.00	004.04	500.00	044.74	
office machines, nec	3575,8,9	13.55	13.58	13.94	14.36	-	577.23	604.31	589.66	611.74	_
Refrigeration and service machinery	358	13.30	13.34	12.95	13.10	-	595.84	610.97	550.38 568.43	555.44 570.35	-
Refrigeration and heating equipment		13.74	13.80	13.25	13.42	-	623.80	640.32 624.71	595.72	601.51	_
Misc. industrial and commercial machinery		13.89	14.07	14.15	14.12 14.67	_	604.22 602.78	628.23	594.72	602.94	l
Carburetors, pistons, rings, valvesScales, balances, and industrial machinery, nec	3596.9	14.56 13.75	14.61 13.88	14.40 14.04	13.97	_	595.38	613.50	591.08	595.12	_
•	1										
Electronic and other electrical equipment		13.00	13.13	13.14	13.19	13.31	555.10	565.90	545.31	555.30	563.
Electric distribution equipment	361	12.90	13.05	13.17	13.30	-	548.25	557.24	532.07	547.96	-
Transformers, except electronic	3612	11.90	12.02	12.07	12.08	-	516.46	527.68	504.53	510.98	-
Switchgear and switchboard apparatus	3613	13.90	14.08	14.17	14.38	-	578.24	585.73	555.46	578.08	-
Electrical industrial apparatus	362	12.38	12.55	12.47	12.64	-	526.15	553.46	516.26	530.88	-
Motors and generators	3621	11.47	11.67	11.59	11.67	-	482.89	520.48	484.46	490.14	-
Relays and industrial controls	3625	14.10	14.34	14.21	14.47	-	596.43	609.45	576.93	603.40 506.97	_
Household appliances	363	12.28	12.39 13.24	12.58 14.06	12.58 14.11	_	504.71 530.67	530.29 578.59	508.23 597.55	603.91	_
Household refrigerators and freezers		13.30 14.09	14.42	13.51	13.46		581.92	615.73	528.24	537.05	1 _
Household laundry equipmentElectric housewares and fans	3634	10.57	10.56	11.14	10.96	_	445.00	443.52	446.71	442.78	1 _
Electric lighting and wiring equipment		12.80	12.84	12.60	12.68	_	540.16	552.12	525.42	533.83	<u> </u>
Electric lamps	3641	16.02	16.26	17.17	17.20	_	679.25	689.42	703.97	713.80	l –
Current-carrying wiring devices	3643	13.10	12.98	13.15	13.41	_	548.89	546.46	550.99	552.49	-
Noncurrent-carrying wiring devices		11.43	11.50	11.74	11.98	-	488.06	510.60	497,78	513.94	l –
Residential lighting fixtures		8.99	9.00	9.12	9.29	-	354,21	365.40	362.06	372.53	1 -
Household audio and video equipment		11.68	11.47	12.10	12.10	-	508.08	479.45	492.47	504.57	-
Household audio and video equipment		11.11	11.08	11.74	11.57	-	464.40	457.60	476.64	466.27	-
Communications equipment		13.97	13.88	14.30	14.15	-	609.09	610.72	612.04	608.45	-
Telephone and telegraph apparatus	3661	15.13	14.71	15.32	15.01	-	689.93	664.89	678.68	678.45	-
Classical and acceptance	367	13.00	13.24	13.27	13.41	- '	555.10	568.00	546.72	568.58	-
Electronic components and accessories	13671	15.12	15.45	14.63	14.88	-	619.92	644.27	618.85	639.84	-
Electronic components and accessories Electron tubes				1777	17.97		752.99	766.98	746.34	778.10	- 1
Electron tubes	3674	17.31	17.92	17.77	17.37						
Electron tubes Semiconductors and related devices Electronic components, nec	3674 3679	10.64	17.92	10.74	10.92	- :	451.14	458.17	442.49	460.82	-
Electron tubes Semiconductors and related devices Electronic components, nec Misc, electrical equipment and supplies	3674 3679 369							458.17 614.32			-
Electron tubes Semiconductors and related devices Electronic components, nec	3674 3679 369 3691	10.64	10.73	10.74	10.92	- ;	451.14	458.17	442.49	460.82	- - -

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

	1987		Avera	ge weekly	hours			Averag	e overtim	e hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Durable goods—Continued											
Transportation equipment	137	44.5	45.6	44.2	44.4	45.8	6.7	7.3	5.4	5.9	-
Motor vehicles and equipment		44.8	46.3	44.5	44.9	47.2	7.0	7.9	5.4	6.2	-
Motor vehicles and car bodies	. 3711	44.1	46.4	44.3	43.8	- 1	6.7	8.1	5.2	5.3	-
Truck and bus bodies	. 3713	44.2	43.4	43.2	44.1	-	6.6	6.4	4.3	6.2	-
Motor vehicle parts and accessories		45.7	46.9	45.1	46.1	- '	7.7	8.4	5.9	7.2	-
Truck trailers		42.1	42.6	41.9	41.3	-	3.7	4.6	3.4	3.5	-
Aircraft and parts		45.6 45.2	46.4 45.7	44.5 44.9	44.6 44.4	-	7.6 7.3	7.6 7.4	6.1	6.1 5.7	_
Aircraft engines and engine parts		45.5	47.4	44.8	44.6	1 -	8.0	8.1	6.1 6.2	6.5	
Aircraft parts and equipment, nec		46.1	46.6	43.9	44.8		7.8	7.7	6.0	6.3	_
Ship and boat building and repairing		41.7	42.5	43.1	42.8	_ :	4.6	5.0	5.2	5.0	_
Ship building and repairing	. 3731	43.2	44.3	44.6	44.1	- 1	5.7	6.3	6.5	6.0	-
Boat building and repairing	. 3732	39.6	39.9	40.9	40.9	- 1	2.9	3.1	3.4	3.5	-
Railroad equipment	374	45.2	45.4	43.2	43.1	- 1	5.3	5.1	4.6	4.2	-
Guided missiles, space vehicles, and parts	. 376	42.6	43.8	41.8	42.5	- 1	4.4	5.0	3.7	3.9	-
Guided missiles and space vehicles	3761	41.8	43.9	41.1	42.2	-	3.8	4.8	3.3	3.4	-
Misc. transportation equipment		40.9 39.6	41.2 39.4	41.0 40.0	40.7 39.6	_	3.6 2.5	3.9 2.5	3.3 2.5	3.2 2.1	-
•	· l	1									
Instruments and related products	38	42.6	42.9	41.1	41.5	42.0	4.2	4.4	3.1	3.3	-
Search and navigation equipment		44.0	43.9	41.9	42.1	- :	4.6	4.5	3.6	3.7	-
Measuring and controlling devices		42.7	43.0	41.0	41.2	- 1	4.0	4.3	3.1	3.0	-
Environmental controls		41.9	42.5	40.1	40.6	_	4.1	4.5	4.2	3.9	-
Process control instruments		42.9 42.7	43.9 42.0	40.6 41.5	40.6 41.3		3.9 3.4	4.3 3.4	2.8 2.1	2.7 1.8	-
Medical instruments and supplies		42.3	42.9	40.8	41.5	_	4.0	4.4	3.1	3.4	_
Surgical and medical instrument	3841	42.2	42.4	40.8	41.2		3.6	3.9	3.1	3.2	_
Surgical appliances and supplies	. 3842	41.7	42.8	40.5	41.5	_	4.0	4.7	3.4	3.9	_
Ophthalmic goods	. 385	41.6	41.0	40.7	40.7		2.7	2.4	2.5	2.4	_
Photographic equipment and supplies		42.7 39.7	43.1 40.5	42.1 41.3	42.3 42.7	-	6.4 2.2	6.3 2.1	3.8 2.3	4.0 2.4	-
·	İ	39.7	40.5	41.5	42.7	_	1	2.1	2.3		
Miscellaneous manufacturing industries	. 39	41.2	41.4	40.1	40.1	40.3	3.8	3.6	3.3	3.2	_
Jewelry, silverware, and plated ware		42.1 42.1	41.2 41.0	39.7 38.9	39.9 39.1	_	4.2 4.2	3.6 3.6	3.9 3.9	3.7 3.3	_
Jewelry, precious metal		41.7	41.3	40.7	40.6		3.2	3.0	2.6	2.7	-
Toys and sporting goods		40.8	41.0	39.7	40.0	-	2.8	2.9	2.2	2.5	_
Dolls, games, toys, and children's vehicles		40.6	40.3	39.4	40.5	_	3.1	2.6	2.0	3.0	_
Sporting and athletic goods, nec		40.9	41.4	39.9	39.8	_ :	2.7	3.1	2.3	2.3	_
Pens, pencils, office, and art supplies	. 395	40.8	40.7	38.0	38.3	-	3.5	3.1	3.1	2.7	-
Costume jewelry and notions	396	39.7	40.2	39.2	39.2	-	3.4	2.7	3.5	4.0	-
Costume jewelry		38.8	39.9	39.1	39.6	-	3.2	2.0	4.2	5.4	-
Miscellaneous manufactures		41.5	41.9	40.9	40.6	-	4.4	4.4	3.8	3.5	-
Signs and advertising specialties	3993	42.7	42.7	41.5	40.9	-	4.6	4.6	4.6	4.1	-
londurable goods		41.5	41.8	41.1	41.3	41.7	4.7	4.7	4.5	4.5	4.
Food and kindred products		42.2	42.4	42.0	42.4	43.0	5.5	5.3	5.6	5.7	-
Meat products	. 201	41.8	41.5	41.5	42.5	-	5.3	4.9	5.1	5.7	-
Meat packing plants		44.6	44.2	44.4	45.0	-	6.6	6.2	6.6	7.3	-
Sausages and other prepared meats		43.4 39.7	42.9	41.9	42.8	_	6.9	6.5	5.8	6.5	-
Poultry slaughtering and processing	12015	42.6	39.5 41.9	39.7 41.9	40.9 42.1	_ :	4.0 5.2	3.7 5.0	3.9 5.0	4.6 5.4	-
Cheese, natural and processed		41.9	41.8	42.2	42.1	_ :	5.2 4.8	5.0 4.9	4.8	5.4 5.2	1 -
Fluid milk	. 2026	43.6	42.3	41.9	42.4	_	5.7	5.1	4.9	5.6	-
Preserved fruits and vegetables	. 203	41.7	42.5	42.0	41.8	-	5.3	5.4	6.2	5.6	
Canned specialties	2032	45.2	46.4	45.9	43.5	-	8.2	9.9	11.1	7.1	-
Canned fruits and vegetables	. 2033	41.5	42.9	40.2	40.1	-	5.2	4.8	5.4	4.5	-
Frozen fruits and vegetables		40.8	41.3	41.5	40.7	<u> </u>	4.4	4.9	5.9	5.5	-
Grain mill products		46.0	46.9	46.6	46.6	-	7.7	7.6	8.3	8.4	-
Flour and other grain mill products		48.6	48.9	46.9	48.0	-	9.3	8.5	8.4	8.9	-
Prepared feeds, nec	2048	43.5	43.9	45.2	43.9	-	6.3	6.3	7.3	7.0	-

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

	1987		Averag	e hourly e	arnings			Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Durable goods—Continued											
Transportation equipment	37	\$17.94	\$18.09	\$17.49	\$17.56	\$17.57	\$798.33	\$824.90	\$773.06	\$779.66	\$804.7
Motor vehicles and equipment	371	18.53	18.66	17.70	17.75	17.74	830.14	863.96	787.65	796.98	837.33
Motor vehicles and car bodies	3711	22.26	22.58	21.25	21.03		981.67	1,047.71	941.38	921.11	_
Truck and bus bodies	3713	15.98	15.87	14.94	15.58		706.32	688.76	645.41	687.08	_
Motor vehicle parts and accessories	3714	17.07	17.08	16,41	16.62	_	780.10	801.05	740.09	766.18	_
Truck trailers	3715	11.09	11.43	11.57	11.59	_	466.89	486.92	484.78	478.67	-
Aircraft and parts	1272	19.10	19.25	19.40	19.45	_	870.96	893.20	863.30	867.47	_
			I 1			_	070.30	030.20	300.00	307.47	_
Aircraft	3/21	(2)	(2)	(2)	(2)	_	076.70	015.00	060.16	861.23	_
Aircraft engines and engine parts	3/24	19.27	19.31	19.20	19.31		876.79	915.29	860.16		1
Aircraft parts and equipment, nec		16.76	16.90	16.90	17.00	-	772.64	787.54	741.91	761.60	-
Ship and boat building and repairing		13.14	13.20	13.54	13.59	-	547.94	561.00	583.57	581.65	-
Ship building and repairing	[3731	14.43	14.42	14.78	14.87	-	623.38	638.81	659.19	655.77	-
Boat building and repairing	3732	11.08	11.17	11.63	11.65	-	438.77	445.68	475.67	476.49	. –
Railroad equipment	374	16.96	17.11	16.86	16.52	-	766.59	776.79	728.35	712.01	-
Guided missiles, space vehicles, and parts		19.76	19.88	20.22	20.23	-	841.78	870.74	845.20	859.78	-
Guided missiles and space vehicles	3761	(2)	(2)	(2)	(2)	_	-	_	- :	-	_
Misc. transportation equipment	379	11.64	11.80	11.93	12.34	_ '	476.08	486.16	489.13	502.24	-
Travel trailers and campers		11.57	11.91	11.93	12.57		458.17	469.25	477.20	497.77	-
instruments and related products	38	13.66	13.68	13.83	13.87	13.99	581,92	586.87	568.41	575.61	587.
Search and navigation equipment	381	17.04	17.27	17.38	17.56	_	749.76	758.15	728.22	739.28	_
Measuring and controlling devices	382	13.76	13.76	14.03	14.17	_	587.55	591.68	575.23	583.80	_
		11.75	11.88	12.17	12.28	_	492.33	504.90	488.02	498.57	_
Environmental controls	2022	13.46	13.65	14.12	14.21	_	577.43	599.24	573.27	576.93	_
Process control instruments	13823					1					
Instruments to measure electricity		16.04	15.80	16.16	16.66	-	684.91	663.60	670.64	688.06	
Medical instruments and supplies	384	12.72	12.72	12.76	12.70	-	538.06	545.69	520.61	527.05	-
Surgical and medical instrument	3841	11.99	12.04	11.85	11.81	- 1	505.98	510.50	483.48	486.57	-
Surgical appliances and supplies	3842	11.89	11.90	12.15	12.04	-	495.81	509.32	492.08	499.66	-
Ophthalmic goods		10.17	10.35	10.23	10.23	- 1	423.07	424.35	416.36	416.36	-
Photographic equipment and supplies		15.86	15.83	16.49	16.55	_	677.22	682.27	694.23	700.07	-
Watches, clocks, watchcases, and parts	387	10.02	10.03	10.40	10.28	-	397.79	406.22	429.52	438.96	-
Miscellaneous manufacturing industries	39	10.71	10.80	11.00	11.02	11.14	441.25	447.12	441.10	441.90	448.9
Jewelry, silverware, and plated ware		11.15	11.28	11.60	11.46	- 1	469.42	464.74	460.52	457.25	-
Jewelry, precious metal		11.27	11.48	11.72	11.42	- :	474.47	470.68	455.91	446.52	-
Musical instruments		10.70	10.88	11.23	11.38	_	446.19	449.34	457.06	462.03	_
Toys and sporting goods	394	10.16	10.24	10.55	10.57	_	414.53	419.84	418.84	422.80	_
Dolls, games, toys, and children's vehicles	39424	9.60	9.77	10.31	10.42	_	389.76	393.73	406.21	422.01	_
Sporting and athletic goods, nec	3949	10.43	10,46	10.66	10.65	_	426.59	433.04	425.33	423.87	_
Pens, pencils, office, and art supplies		11.09	11.09	11.44	11.19		452.47	451.36	434.72	428.58	-
Costume investor and notices	306	9.56	9.69	9.64	9.74	_	379.53	389.54	377.89	381.81	_
Costume jewelry and notions	3064				8.87	_	379.53	350.32	339.39	351.25	_
Costume jewelry	10801	8.69	8.78	8.68						456.34	-
Miscellaneous manufactures	399	11.03	11.11 11.71	11.16 11.98	11.24 12.23	_	457.75 499.16	465.51 500.02	456.44 497.17	500.21	
	10000		į		į į						540.
Nondurable goods	ļ	12.48	12.58	12.82	12.88	12.97	517.92	525.84	526.90	531.94	540.
Food and kindred products	20	11.60	11.71	11.82	11.95	12.01	489.52	496.50	496.44	506.68	516.
Meat products	201	9.45	9.49	9.74	9.81	-	395.01	393.84	404.21	416.93	-
Meat packing plants	2011	10.08	10.18	10.51	10.64	-	449.57	449.96	466.64	478.80	- 1
Sausages and other prepared meats		10.84	10.86	10.92	11.05	-	470.46	465.89	457.55	472.94	I -
Poultry slaughtering and processing	2015	8.51	8.52	8.80	8.80	-	337.85	336.54	349.36	359.92	i -
Dairy products		13.40	13.35	13.71	13.85	-	570.84	559.37	574.45	583.09	i -
Cheese, natural and processed	2022	12.17	12.10	12.56	12.58	-	509.92	505.78	530.03	533.39	· -
Fluid milk	2026	14.11	14.03	14.25	14.54	-	615.20	593.47	597.08	616.50	J -
Preserved fruits and vegetables	203	11.09	11.44	11.30	11.47	-	462.45	486.20	474.60	479.45	-
Canned specialties	2032	14.87	15.38	15.38	15.19	_	672.12	713.63	705.94	660.77	l –
Canned fruits and vegetables	2033	11.72	12.30	11.90	12.48	_	486.38	527.67	478.38	500.45	- 1
Frozen fruits and vegetables	2037	10.34	10.49	10.48	10.52	_	421.87	433.24	434.92	428.16	۱ ـ
Grein mill products	2007	14.62	14.94	14.87	15.11	_	672.52	700.69	692.94	704.13	} _
Grain mill products	204									643.20	l -
Flour and other grain mill products Prepared feeds, nec	2041	13.11	13.10	13.18	13.40	-	637.15	640.59	618.14		-
Prepared feeds dec	12048	11.61	11.56	11.70	11.82	- 1	505.04	507.48	528.84	518.90	ı ~

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

Industry ondurable goods—Continued food and kindred products—Continued	1987 SIC Code	Nov. 1997	Dec.	Oct.	Nov.	Dec.	Nov.	D	0=:	Nov	
ondurable goods—Continued	-	1	1997	1998	1998 ^p	1998P	1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec 1998
cond and kindred productsContinued											
					1		1		'		ł
Bakery products	205	41.3	41.6	40.8	41.1	_	5,2	5.0	5.0	5.0	-
Bread, cake, and related products		41.0	40.7	40.8	41.4	l _	5.2	4.8	4.9	5.2	_ ا
Cookies, crackers, and frozen bakery products,	1			, , , ,	(```			""		"-	
except bread	2052,3	42.0	43.3	40.8	40.5	-	5.1	5.5	5.0	4.5	-
Sugar and confectionery products		42.8	43.1	42.5	42.3	_	5.8	5.5	5.8	5.5	_
Raw cane sugar		63.3	62.2	52.0	50.8	ļ -	18.7	18.5	13.1	11.5	-
Cane sugar refining	2062	53.9	50.3	50.9	54.8	-	15.9	10.6	10.5	13.7	-
Beet sugar	2063	40.4	43.0	42.3	40.6	- 1	4.2	4.0	6.7	4.3	-
Candy and other confectionery products		40.8	41.6	41.0	41.1		4.4	4.3	4.6	4.7	-
Fats and oils		44.0	44.1	43.0	44.7	- 1	7.3	7.2	6.5	7.2	- ا
Beverages	208	43.2	43.9	44.3	44.6	- :	5.0	4.5	6.0	5.7	١ -
Mait beverages	2082	49.2	47.9	47.2	49.7	- :	9.3	6.7	7.8	9.9	-
Bottled and canned soft drinks	2086	40.8	42.5	43.4	43.1	-	3.6	3.9	5.2	4.6	-
Misc. food and kindred products	209	40.3	41.2	39.9	39.7	-	5.0	5.0	5.2	4.4	-
obacco products	21	39.5	40.1	39.1	38.6	37.8	2.8	4.0	2.6	2.7	_
Cigarettes		37.9	40.3	37.7	37.6	-	2.4	3.9	3.0	3.3	-
extile mill products	22	41.9	42.2	41.1	41.3	41.3	4.8	5.1	4.5	4.5	_
Broadwoven fabric mills, cotton	221	42.3	42.6	42.4	41.8		5.5	5.8	5.8	5.6	
Broadwoven fabric mills, synthetics		42.8	42.4	41.9	41.9	_	5.8	5.7	5.2	4.9	
Broadwoven fabric mills, wool	223	40.5	41.2	37.8	37.7	_	4.6	5.1	2.9	3.0	_
Narrow fabric mills		40.8	40.0	40.5	40.B	_	3.2	3.2	3.1	3.2	_
Knitting mills		40.5	40.2	39.7	40.2	_	3.6	3.9	3.5	3.6	
Women's hosiery, except socks		39.9	37.7	39.6	40.8		2.8	2.5	3.5	3.9	
Hosiery, nec		38.8	37.5	37.7	39.2	_	3.2	3.2	2.6	3.1	
Knit outerwear mills		41.0	41.1	40.7	40.2		3.5	3.7	3.6	3.4	
Knit underwear mills		41.3	39.5	38.4	40.1	_	2.7	2.4	1.6	2.4	
Weft knit fabric mills		39.4	39.5	39.0	38.6		4.4	4.9	4.0	3.9	
Textile finishing, except wool		42.9	44.2	41.9	41.8	_	5.6	6.3	5.3	5.1	
Finishing plants, cotton		43.4	44.4	43.5	43.3	_ !	5.8	6.3	6.4	6.2	_
Finishing plants, synthetics		43.4	44.0	42.0	41.4	_ '	5.8	6.4	4.6	4.3	_
Carpets and rugs		43.1	44.5	42.6	43.0	_	6.0	6.0	5.3	5.8	_
Yarn and thread mills		42.1	42.4	40.6	40.9		4.9	5.2	4.2	4.1	_
Yarn spinning mills		42.8	43.4	41.3	41.6	_	5.3	5.6	4.4	4.5	
Throwing and winding mills		39.3	38.6	37.1	37.8	_	3.3	4.0	2.9	2.9	
Miscellaneous textile goods		42.4	43.0	41.4	41.6	-	4.9	5.2	4.8	4.6	_
apparel and other textile products	22	37.6	38.1	37.6	37.6	37.9	2.3	2.5	2.1	2.1	
Men's and boys' suits and coats	231	37.6 37.6	38.6	37.0	37.5	37.9	1.4	1.6	1.0	0.8	
Men's and boys furnishings	232	37.3	37.1	36.5	36.5	_	1.7	1.5	1.3	1.3	_
Men's and boys' shirts		36.9	36.5	34.9	34.9	_	2.1	1.7	1.1	0.8	
Men's and boys' trousers and slacks		36.7	36.7	34.9	35.5	_	1.4	1.3	1.0	1.3	
Men's and boys' work clothing		38.2	38.3	37.2	38.0	_	1.8	1.9	1.9	1.7	_
Women's and misses' outerwear		35.9	36.7	36.8	36.7		1.7	2.0	1.5	1.4	
Women's and misses' blouses and shirts		35.0	35.1	35.3	34.5		1.3	1.4	1.9	1.5	
Women's, juniors', and misses' dresses		37.5	37.5	36.3	36.1		1.9	2.0	1.9	1.3	
Women's and misses' suits and coats		36.8	37.3	38.0	37.8	_	1.8	2.2	1.8	2.0	_
Women's and misses' outerwear, nec	2339	35.6	36.6	37.0	37.0	_ :	1.7	2.0	1.4	1.4	_
Women's and children's undergarments		37.3	38.2	37.6	37.6	_	2.3	2.5	2.1	2.3	-
Women's and children's underwear		38.2	38.2	37.6	37.8	· -	2.3	2.3	1.9	2.0	_
Brassieres, girdles, and allied garments		34.8	38.1	37.8	36.9	-	2.2	3.3	2.7	3.2	١ ـ
Girls' and children's outerwear		37.5	37.3	36.9	37.9	_	3.2	3.0	3.2	3.1	_
Girls' and children's dresses and blouses		38.5	36.9	38.0	39.4	_	4.0	3.0	3.9	4.2	-
Misc. apparel and accessories		38.8	37.6	36.4	37.5	-	2.0	1.8	1.1	1.5	I
Misc. fabricated textile products	239	39.6	40.7	39.7	39.7	_	3.7	4.4	3.6	3.7	۔ ا
Curtains and draperies	2391	36.4	37.5	35.1	35.8	_	1.5	1.9	1.4	1.9	
House furnishings, nec		40.4	42.0	40.9	40.9	-	4.1	5.2	4.5	4.7	
Automotive and apparel trimmings		39.9	40.8	40.5	39.7	-	3.8	5.2	3.5	3.3	-
Paper and allied products	26	44.4	44.6	43.6	43.9	44.2	6.2	61	E 0	E 0	
Paper mills	262	45.3	44.6 45.9	43.6 45.1	43.9 45.1	44.2	6.6	6.1 6.6	5.8 6.9	5.8 6.9	} _
Paperboard mills		44.6	45.6	43.7	44.6	-	7.3	6.9	7.5	7.4	

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

	1987		Averag	e hourly e	arnings			Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p
Nondurable goods—Continued											
Food and kindred products—Continued	ļ										1
Bakery products	205	\$12.48	\$12.50	\$12.74	\$12.80	-	\$515.42	\$520.00	\$519.79	\$526.08	-
Bread, cake, and related products	2051	12.65	12.71	12.71	12.81	-	518.65	517.30	518.57	530.33	-
Cookies, crackers, and frozen bakery products,					40.70		544.00	505.00	504.00	547.50	
except bread	2052,3	12.19	12.14	12.79	12.78	_	511.98	525.66	521.83	517.59 550.75	-
Sugar and confectionery products	206	12.57	12.61	12.83	13.02	_	538.00 736.81	543.49 716.54	545.28 551.72	529.34	_
Raw cane sugar	2061	11.64 18.38	11.52	10.61 18.14	10.42 18.34	_	990.68	897.86	923.33	1,005.03	i -
Cane sugar refining Beet sugar	2002	12.86	17.85 13.07	13.24	13.62	_	519.54	562.01	560.05	552.97	_
Candy and other confectionery products	2064	11.71	11.87	12.20	12.47	_	477.77	493.79	500.20	512.52	l _
Fats and oils		12.80	12.80	12.94	12.93	_	563.20	564.48	556.42	577.97	l –
Beverages	208	16.36	16.24	16.00	16.48	_	706.75	712.94	708.80	735.01	-
Malt beverages	2082	22.93	22.20	23.17	24.35	-	1,128.16	1,063.38	1,093.62	1,210.19	-
Bottled and canned soft drinks		13.37	13.61	13.16	13.19	_	545.50	578.43	571.14	568.49	-
Misc. food and kindred products		10.42	10.63	10.76	10.92	-	419.93	437.96	429.32	433.52	-
Tobacco products	21	17.88	18.69	17.08	17.43	\$17.28	706.26	749.47	667.83	672.80	\$653.18
Cigarettes	211	24.66	24.97	24.01	24.29	-	934.61	1,006.29	905.18	913.30	-
Textile mill products	22	10.16	10.25	10.44	10.49	10.55	425.70	432.55	429.08	433.24	435.72
Broadwoven fabric mills, cotton	221	10.59	10.65	11.06	11.12	-	447.96	453.69	468.94	464.82	-
Broadwoven fabric mills, synthetics	222	11.10	11.11	11.27	11.24	-	475.08	471.06	472.21	470.96] -
Broadwoven fabric mills, wool	223	10.66	10.58	10.72	10.94	-	431.73	435.90	405.22	412.44	-
Narrow fabric mills	224	9.26	9.31	9.59	9.57	-	377.81	372.40	388.40	390.46	-
Knitting mills	225	9.20	9.34	9.52	9.52	-	372.60	375.47	377.94	382.70	-
Women's hosiery, except socks	2251	8.58	8.59	8.99	9.00	-	342.34	323.84	356.00	367.20	-
Hosiery, nec	2252	9.21	9.25	9.53	9.41	-	357.35	346.88	359.28	368.87	-
Knit outerwear mills		8.59	8.76	8.82	8.93	-	352.19 386.16	360.04 376.44	358.97 370.18	358.99 390.17	_
Knit underwear mills	2254	9.35	9.53 10.21	9.64 10.34	9.73 10.27	_	395.18	403.30	403.26	396.42	_
Weft knit fabric mills	223/	10.03	10.53	10.34	10.27	_	448.31	465.43	449.59	451.86	_
Textile finishing, except woolFinishing plants, cotton	2261	10.43	10.55	10.75	10.67	_	450.93	462.20	463.28	462.01	
Finishing plants, synthetics	2262	10.95	11.08	11.16	11.28	_	475.23	487.52	468.72	466.99	-
Carpets and rugs	227	10.21	10.27	10.27	10.43	_	440.05	457.02	437.50	448.49	_
Yarn and thread mills		9.88	9.91	10.11	10.21	_	415,95	420.18	410.47	417.59	_
Yarn spinning mills	2281	9.91	9.92	10.16	10.26	_	424.15	430.53	419.61	426.82	-
Throwing and winding mills	2282	9.96	10.04	9.93	10.09	_	391.43	387.54	368.40	381.40	-
Miscellaneous textile goods	229	11.73	11,85	11.97	11.98		497.35	509.55	495.56	498.37	-
Apparel and other textile products	23	8.32	8.42	8.65	8.63	8.71	312.83	320.80	325.24	324.49	330.11
Men's and boys' suits and coats	231	8.56	8.63	8.88	8.86	-	321.86	333.12	328.56	328.71	i –
Men's and boys' furnishings	232	7.85	7.84	8.02	8.01	~	292.81	290.86	292.73	292.37	-
Men's and boys' shirts	2321	7.70	7.74	7.88	7.83	-	284.13	282.51	275.01	273.27	-
Men's and boys' trousers and slacks	2325	8.03	7.99	8.28	8.25	-	294.70	293.23	288.97	292.88	-
Men's and boys' work clothing	2326	7.74	7.76	7.76	7.67	-	295.67	297.21	288.67	291.46	-
Women's and misses' outerwear		7.98	8.07	8.31	8.25	-	286.48	296.17	305.81	302.78	-
Women's and misses' blouses and shirts		7.15 9.01	7.25 9.17	7.37 9.56	7.39 9.53	_	250.25 337.88	254.48 343.88	260.16 347.03	254.96 344.03	
Women's, juniors', and misses' dresses	2335	7.86	9.17 8.07	9.56 8.30	9.53 8.13	_	289.25	301.01	315.40	307.31	1 -
Women's and misses' outerwear, nec	2339	7.86	7.91	8.13	8.07		279.82	289.51	300.81	298.59	<u> </u>
Women's and children's undergarments		8.00	8.04	8.03	8.14	_	298.40	307.13	301.93	306.06	_
Women's and children's underwear		7.76	7.87	7.96	8.03	_	296.43	300.63	299.30	303.53	~
Brassieres, girdles, and allied garments		8.78	8.52	8.23	8.45	_	305.54	324.61	311.09	311.81	l –
Girls' and children's outerwear		7.75	7.79	8.37	8.34	_	290.63	290.57	308.85	316.09	-
Girls' and children's dresses and blouses	2361	7.40	7.42	8.29	8.38	-	284.90	273.80	315.02	330.17	-
Misc, apparel and accessories	238	7.98	8.01	8.24	8.27	-	309.62	301.18	299.94	310.13	-
Misc. fabricated textile products	239	9.20	9.38	9.55	9.55	- '	364.32	381.77	379.14	379.14	-
Curtains and draperies	2391	8.25	8.31	8.29	8.42	-	300.30	311.63	290.98	301.44	-
House furnishings, nec		8.91	8.94	9.19	9.30	_	359.96	375.48	375.87	380.37	-
Automotive and apparel trimmings	2396	10.87	11.44	11.09	10.95	-	433.71	466.75	449.15	434.72	_
Paper and allied products	26	15.22	15.27	15.58	15.63	15.76	675.77	681.04	679.29	686.16	696.5
Paper mills		19.44 19.04	19.38 19.11	20.00 19.93	20.03 20.04	_	880.63 849.18	889.54 871.42	902.00 870.94	903.35 893.78	-
Paperboard mills											· -

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

	1987		Avera	ge weekly	hours			Average	e overtim	e hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Nondurable goods—Continued											
Paper and allied products—Continued								[ĺ	
Paperboard containers and boxes	265	44.6	44.7	43.5	44.2	_	6,4	6.2	5.7	6.0	l _
Corrugated and solid fiber boxes		45.2	44.9	44.2	44.9	_	7.0	6.6	6.1	6.5	1 _
Sanitary food containers	2656	43.1	45.0	41.9	43.0	_	4.7	5.0	4.6	4.3	i –
Folding paperboard boxes		44.3	44.6	43.0	43.5	_ :	6.3	6.3	5.6	5.8	-
Misc. converted paper products		43.3	43.4	42.7	42.7	_	5.5	5.5	4.8	4.6	-
Paper, coated and laminated, nec		44.2	44.1	41.1	41,1	_	4.7	5.1	3.3	3.4	_
Bags: plastics, laminated, and coated		43.3	42.9	43.0	43.1	_	5.5	5.1	5.0	5.3	l –
Envelopes		42.7	42.8	42.1	41.9	-	4.7	4.8	4.3	4.0	-
Printing and publishing	27	39.3	39.2	38.4	38.6	38.7	3.8	3.7	3.5	3.4	_
Newspapers	271	33.8	33.9	33.1	33.7	-	1.8	1.9	1.6	1.9	{ ~
Periodicals		38.0	36.5	36.4	36.7	- 1	3.1	2.7	2.8	2.6	۱ _
Books		40.2	40.5	39.3	39.5	- 1	4.1	4.3	4.1	4.0	l _
Book publishing		38.7	38.1	37.0	38.3	-	2.6	3.1	2.3	2.4	l _
Book printing		42.0	43.2	41.5	40.6	_	5.9	5.8	5.8	5.6	_
Miscellaneous publishing		36.7	36.5	36.3	36.6	-	2.9	2.8	3.4	3.3	l –
Commercial printing		41.0	40.8	40.1	40.4	_	4.7	4.4	4.2	4.0	_
Commercial printing, lithographic		40.8	40.5	40.1	40.2	_	4.6	4.3	4.2	3.9	l _
Commercial printing, nec	2759	40.9	41.1	40.2	40.7	- 1	4.5	4.3	4.1	4.2	_ ا
Manifold business forms		43.7	44.0	41.7	42.7	_	4.8	5.8	4.0	4.7	l _
Blankbooks and bookbinding		39.8	40.5	39.8	39.0	_	3.0	3.1	3.4	2.9	_
Printing trade services		40.2	40.1	39.7	39.8	-	4.8	4.5	3.8	3.7	-
Chemicals and allied products	28	43.7	44,0	43.2	43.3	43.6	5.5	5.5	5.1	5.2	l _
Industrial inorganic chemicals		47.3	46.4	43.9	43.7		6.5	6.5	5.8	5.6	_
Industrial inorganic chemicals, nec		46.8	44.9	44.1	44.3	_	6.3	6.2	5.8	5.9	_
Plastics materials and synthetics		44.0	44.5	42.7	42.9		5.6	5.6	4.8	5.9	-
Plastics materials and resins		44.8	45.4	43.6	44.4	_	5.7	5.6	5.0	5.2 5.3	_
Organic fibers, noncellulosic		43.4	43.6	41.4	40.8	_	5.3	4.9	3.8	4.4	
Drugs		42.0	42.9	43.1	43.1		5.7	5.8	4.8	5.1	_
Pharmaceutical preparations		42.2	43.3	43.3	43.8	_	5.4	5.8	4.4	5.0	_
Soap, cleaners, and toilet goods		42.0	42.0	41.3	41.9	_	3.9	4.0	4.3	4.0	_
Soap and other detergents		43.8	44.0	44.6	45.3	_	5.0	5.3	6.2	5.7	l _
Polishing, sanitation, and finishing preparations		41.9	42.9	41.2	41.1	_	3.5	4.1	4.0	3.6	l _
Toilet preparations		41.2	40.8	39.8	40.8	-	3.5	3.3	3.5	3.3	_ ا
Paints and allied products		42.7	44.4	42.2	42.3	_	4.5	4.9	4.1	3.9	_ ا
Industrial organic chemicals		44.9	45.2	45.1	44.9	_	6.3	6.1	6.6	6.5	ـ ا
Cyclic crudes and intermediates		43.4	45.3	45.8	45.1	_ [4.6	5.7	5.6	6.0	_
Industrial organic chemicals, nec		45.2	45.2	45.0	44.9		6.6	6.2	6.9	6.6	_
Agricultural chemicals	287	44.9	44.6	45.8	45.5	_	6.7	6.7	7.4	7.0	-
Miscellaneous chemical products	289	44.3	44.4	43.6	43.8	_	5.6	5.6	4.5	4.7	-
Petroleum and coal products	29	43.4	42.2	43.9	43.9	44.7	6.0	5.3	7.4	6.3	-
Petroleum refining	291	44.1	42.5	43.2	43.9	-	5.7	5.3	6.5	5.8	-
Asphalt paving and roofing materials	295	41.5	40.9	45.9	44.4	-	6.9	5.2	10.3	8.0	-
Rubber and misc. plastics products		42.5	43.0	41.8	42.1	42.9	4.9	5.1	4.4	4.5	-
Tires and inner tubes	301	44.6	45.0	42.7	42.9	-	6.7	6.8	5.5	5.9	-
Rubber and plastics footwear	302	41.6	41.6	40.5	40.5	-	3.3	4.6	5.6	5.6	-
Hose, belting, gaskets, and packing		43.0	44.3	42.5	42.6	-	5.2	5.7	4.0	4.1	-
Rubber and plastics hose and belting		44.2	45.0	44.6	43.9	-	5.7	6.2	5.2	4.5	-
Fabricated rubber products, nec		43.7	44.5	42.2	42.6	-	5.4	5.7	4.5	4.5	-
Miscellaneous plastics products, nec	308	42.1	42.5	41.6	41.8	-	4.6	4.8	4.3	4.4	-
Leather and leather products	31	38.5	38.8	37.6	37.9	38.4	2.4	2.4	2.5	2.3	-
Leather tanning and finishing		42.1	44.1	39.8	39.8	-	4.5	5.4	4.2	4.0	-
Footwear, except rubber		36.5	36.8	36.8	37.2	_	1.5	1.8	2.1	1.6	-
Men's footwear, except athletic	3143	35.8	35.9	36.7	36.7	-	1.6	1.9	2.3	1.3	-
Women's footwear, except athletic		38.2	37.5	36.8	37.4	- 1	1.0	0.7	1.9	2.2	- ا
Luggage		40.3	39.6	36.9	37.4	- 1	3.2	2.1	2.1	2.4	-
Handbags and personal leather goods		41.1	40.0	38.4	38.0	- 1	3.2	1.7	2.2	2.2	-
		33.0	32.9	32.8	33.0	32.9	_		-	_	-
rvice-producing											

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

	1987		Averag	e hourly e	amings			Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Nondurable goods—Continued											
Paper and allied products—Continued	}				'	1		'			1
Paperboard containers and boxes	265	\$12.95	\$13.05	\$13.16	\$13.15		\$577.57	\$583.34	\$572.46	\$581.23	l –
Corrugated and solid fiber boxes	2653	12.97	13.08	13.17	13.18	- 1	586.24	587.29	582.11	591.78	~
Sanitary food containers	2656	12.85	12.77	13.20	12.99	-	553.84	574.65	553.08	558.57	-
Folding paperboard boxes	2657	13.76	13.88	13.89	13.88	- 1	609.57	619.05	597.27	603.78] -
Misc, converted paper products	267	13.32	13.36	13.59	13.66	-	576.76	579.82	580.29	583.28	-
Paper, coated and laminated, nec	2672	15.41	15.34	15.63	15.76	-	681.12	676.49	642.39	647.74	-
Bags: plastics, laminated, and coated Envelopes	2673	12.04 12.05	12.07 12.15	12.14 12.53	12.25 12.59	_	521.33 514.54	517.80 520.02	522.02 527.51	527.98 527.52	l <u>-</u>
•	1	l i									
Printing and publishing	27	13.24	13.30	13.60	13.54	\$13.65	520.33	521.36	522.24	522.64	\$528.26
Newspapers	271	13.01	13.10	13.27	13.28	-	439.74	444.09	439.24	447.54	_
Periodicals	272	14.81	14.66	14.86	14.91	~	562.78	535.09	540.90	547.20	-
Books	273	12.50	12.43	13.10	13.09	-	502.50	503.42	514.83	517.06	-
Book publishing	2731	11.92	11.81	12.29	12.11	-	461.30	449.96	454.73	463.81	~
Book printing	2732	13.11	13.05	13.79	13.94	-	550.62	563.76	572.29	565.96	-
Miscellaneous publishing	274	12.83	13.06	13.16	12.99	- 1	470.86	476.69	477.71	475.43	~
Commercial printing	275	13.49	13.57	13.86	13.76	- ,	553.09	553.66	555.79	555.90	-
Commercial printing, lithographic	2752	13.66	13.77	14.11	13.97	-	557.33	557.69	565.81	561.59	-
Commercial printing, nec	2759	12.92	12.95	13.13	13.08	- 1	528.43	532.25	527.83	532.36	-
Manifold business forms	[276	14.32	14.49	14.59	14.46	- 1	625.78	637.56	608.40	617.44	-
Blankbooks and bookbinding	278	10.34	10.26	10.74	10.70	- 1	411.53	415.53	427.45	417.30	-
Printing trade services	279	16.33	16.59	16.86	16.72	-	656.47	665.26	669.34	665.46	-
Chemicals and allied products	28	16.85	16.92	17.22	17.28	17.33	736.35	744.48	743.90	748.22	755.59
Industrial inorganic chemicals	281	18.91	18.77	18.84	18.94		894.44	870.93	827.08	827.68	-
Industrial inorganic chemicals, nec	2819	19.12	18.97	19.41	19.53	-	894.82	851.75	855.98	865.18	-
Plastics materials and synthetics	282	17.78	17.88	17.91	18.14		782.32	795.66	764.76	778.21	-
Plastics materials and resins	2821	19.92	20.00	20.03	20.07	-	892.42	908.00	873.31	891.11	_
Organic fibers, noncellulosic	2824	15.12	15.08	15.01	15.39	-	656.21	657.49	621.41	627.91	-
Drugs	283	16.71	16.59	17.21	17.21	-	701.82	711.71	741.75	741.75	-
Pharmaceutical preparations	2834	16.50	16.34	16.95	17.01	-	696.30	707.52	733.94	745.04	-
Soap, cleaners, and toilet goods	284	13.45	13.95	14.06	14.13	- '	564.90	585.90	580.68	592.05	_
Soap and other detergents	2841	17.34	18.36	17.45	17.51	-	759.49	807.84	778.27	793.20	-
Polishing, sanitation, and finishing preparations	12842,3	12.95	13.34	13.47	13.60	-	542.61	572.29	554.96	558.96	-
Toilet preparations	2844	11.89	12.19	12.61	12.66	_	489.87	497.35	501.88	516.53	-
Paints and allied products	285	14.18	14.39	14.50	14.49	-	605.49	638.92	611.90	612.93	_
Industrial organic chemicals	286	20.14	20.17	20.77	20.76	-	904.29	911.68	936.73	932.12	-
Cyclic crudes and intermediates	2865	20.03	20.07	20.59	20.57	- '	869.30	909.17	943.02	927.71	_
Industrial organic chemicals, nec	2869	20.28	20.30	20.95	20.94	- '	916.66	917.56	942.75	940.21	_
Agricultural chemicals	287	17.05	17.00	17.42	17.50	- '	765.55	758.20	797.84	796.25	-
Miscellaneous chemical products	289	15.17	15.19	15.45	15.49	-	672.03	674.44	673.62	678.46	-
Petroleum and coal products	29	20.39	20.55	21.05	20.90	21.10	884.93	867.21	924.10	917.51	943.17
Petroleum refining	291	22.62	22.64	23.75	23.57	_	997.54	962.20	1,026.00	1,034.72	-
Asphalt paving and roofing materials	295	15.36	15.50	16.08	15.55		637.44	633.95	738.07	690.42	-
Rubber and misc. plastics products	30	11.64	11.76	11.89	11.97	12.06	494.70	505.68	497.00	503.94	517.37
Tires and inner tubes	301	18.61	18.42	18.38	18.56	_	830.01	828.90	784.83	796.22	_
Rubber and plastics footwear	302	9.90	9.98	10.09	10.24	_	411.84	415.17	408.65	414.72	_
Hose, belting, gaskets, and packing	305	11.66	11,89	11.77	11.83		501.38	526.73	500.23	503.96	l _
Rubber and plastics hose and belting		11.79	11.95	11.75	11.69	_	521.12	537.75	524.05	513.19	_
Fabricated rubber products, nec		11.39	11.55	11.71	11.72		497.74	513.98	494.16	499.27	l _
Miscellaneous plastics products, nec		10.97	11,11	11.28	11.37	-	461.84	472.18	469.25	475.27	-
Leather and leather products	31	9.14	9.21	9.46	9.42	9.40	351.89	357.35	355.70	357.02	360.96
Leather tanning and finishing	311	12.05	12.02	12.34	12.24		507.31	530.08	491.13	487.15	
Footwear, except rubber		8.61	8.68	9.03	9.07	_ :	314.27	319.42	332.30	337.40	_
		9.13	9,34	9.79	9.77	_	326.85	335.31	359.29	358.56	_
Men's footwear, except athletic		7.59	7.52	7.84	7.92	_ :	289.94	282.00	288.51	296.21	_
Women's footwear, except athletic				9.18							_
LuggageHandbags and personal leather goods		8.84 8.29	8.84 8.19	9.18 8.20	9.04 8.27	_	356.25 340.72	350.06 327.60	338.74 314.88	338.10 314.26	_
-		12.00	11.96	12.40	12.50	12.49	396.00	393.48	406.72	412.50	410.92
ervice-producing						!					
Transportation and public utilities	1	15.19	15.17	15.43	15.53	15.57	613.68	603.77	606.40	616.54	607.23

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

	1987		Avera	ge weekly	hours			Averag	e overtim	e hours	
Industry	SIC	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P
Transportation and public utilities—Continued	}								1		
Railroad transportation:	ĺ	l .	[l				ŀ	i	
Class I railroads plus Amtrak ³	4011	51.7	49.5	45.0	45.3	-	-	-	ļ -	-	-
and the second second		24.0	24.4	242	242		_	l _			1
Local and interurban passenger transit	141	34.3 38.8	34.4 38.5	34.3 38.2	34.3 38.9	<u>-</u>	_	-	-	_	
Intercity and rural bus transportation		38.7	38.3	39.7	39.0	_	_	_	_	_	l –
, , ,	1	***	55.5		1				l		
Trucking and warehousing	. 42	40.4	40.3	40.7	40.3	- 1	-	-	-	-	-
Trucking and courier services, except air	. 421	40.3	40.1	40.6	40.2	- '	-	-	i -	-	-
Public warehousing and storage	. 422	41.5	41.3	41.6	41.5	-	_	-	_	-	-
Water transportation:	1	}	}		1					ì	l
Water transportation services	. 449	39.1	38.2	37.5	38.1	- '	_	-	-	-	-
Pipelines, except natural gas	. 46	45.0	44.5	45.3	46.0	_	_	_	-		_
•											
Transportation services	. 47	37.9	37.1	38.4	39.4	-	-	-	-	-	-
Passenger transportation arrangement	. 472	38.0	36.4	38.6	39.5	-	_	1 =	-	_	_
Travel agencies	4/24	38.3 37.1	36.6 37.2	39.5 37.7	40.5 39.1	-	-] [_	1 -	-
Freight transportation arrangement	. 4/3	37.1	37.2	37.7	39.1	-	i –	-	-	_	ļ ⁻
Communications	. 48	40.6	40.4	40.6	40.8	-	-	-	-	-	-
Telephone communications	. 481	42.1	42.0	42.4	42.3	-	-	-	-	-	-
Telephone communications, except radio	. (4813	42.3	42.3	43.0	42.9	-	-	-	-	-	-
Radio and television broadcasting	. 483	36.0	35.5	35.2	35.6] -	-	-	-	-	-
Cable and other pay television services	. 484	39.9	39.6	39.8	40.6	-	-	-	-	-	_
Electric, gas, and sanitary services	. 49	42.7	41.8	42.6	43.3	_	_	-	l –	-	_
Electric services	. 491	42.1	40.7	41.9	42.9	} –	-	-	i -	1 -	-
Gas production and distribution	. 492	44.1	42.7	43.4	44.1	! -	-	-	-	-	-
Combination utility services	. 493	43.2	43.5	42.4	43.7	-	-	-	-	~	-
Sanitary services	. 495	42.5	42.4	44.0	43.8	-	_	-	-	-	-
Wholesale trade		38.7	38.4	38.3	38.7	38.5	-	-	-	-	-
Durable goods	. 50	39.5	39.1	38.9	39.4	_	_	_		-	_
Motor vehicles, parts, and supplies	. 501	38.0	37.9	37.3	37.7	-	-	l -	۱ -	i -	l –
Furniture and home furnishings	. 502	37.9	38.2	37.2	37.3	-	} -	i -	- 1	-	-
Lumber and other construction materials	. 503	39.9	39.5	40.5	40.1	-	-	-	-] -	- 1
Professional and commercial equipment	. 504	40.4	39.7	39.4	40.6	-	-	-	-	ļ -	-
Medical and hospital equipment	. 5047	40.1	39.2	39.1	40.3] [] =	-	-	=	=
Metals and minerals, except petroleumElectrical goods	. 505	42.0 39.6	41.8 39.3	41.1 39.3	41.5 39.8	1 =	=	-	1 =	-	_
Hardware, plumbing, and heating equipment	507	39.5	39.2	38.8	39.2	_	l <u> </u>	l _	۱ ـ	l _	l _
Machinery, equipment, and supplies	508	39.7	39.4	39.4	39.7	} _	-	l –] -	-	l –
Misc. wholesale trade durable goods	. 509	38.0	37.7	36.7	36.9	-	! -	-	-	-	-
Nondurable goods	E1	37.7	37.4	37.6	37.7		_	_	_	۱ ـ	_
Paper and paper products	511	37.1	36.5	37.1	37.9	-	l _	1 -	l _	l –	j _
Drugs, proprietaries, and sundries		36.6	36.1	36.2	37.2	_	1 -	-	_	-	-
Apparel, piece goods, and notions	. 513	38.3	37.3	36.9	37.1	-	i –	-	_	-	-
Groceries and related products	514	38.6	38.5	38.6	38.6	l –	-	-	-	-	-
Farm-product raw materials	515	35.4	33.7	37.8	34.9	-	-	-	-	-	-
Chemicals and allied products		40.1	40.1	40.0	40.6	-	-	-	-	-	-
Petroleum and petroleum products		38.1	37.8	37.8	38.3	-	-	-	-	-	-
Beer, wine, and distilled beverages	518 519	37.8 36.2	37.5 36.3	37.5 36.1	37.7 36.2	-	_	-	} =	1 =	-
Misc. Wildesale liade fiolidatable goods)		i		ļ		1	1	ļ	
Retail trade	1	28.8	29.2	28.9	28.9	29.2	-	-	-	-	-
Building materials and garden supplies	52	34.4	34.4	35.1	35.0	-	-	-	-	-	-
Lumber and other building materials	521	35.9	35.8	36.9	36.8	-	_	-	-	} -	-
Paint, glass, and wallpaper stores	523	35.9	35.7	34.8	35.8 30.2	\ <u>-</u>	_	_	_	-	-
Hardware stores		31.0	31.1	30.4	31.2] _	1 -	1 -	_	_	1 -
Retail nurseries and garden stores		30.2	30.3	J 32.0	51.2	1	[_]	1

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

	1987	<u> </u>	Averag	e hourly e	amings	,		Averag	e weekly e	arnings	
ìndustry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Transportation and public utilities—Continued		{						{	{	}	
Railroad transportation:	1				[1		((
Class I railroads plus Amtrak ³	4011	\$18.12	\$18.02	\$17.90	\$17.98	-	\$936.80	\$891.99	\$805.50	\$814.49	-
Local and interurban passenger transit	41	10.98	11.00	11.20	11.31	_	376.61	378.40	384.16	387.93	_
Local and suburban transportation	1411	11.47	11.52	11.77	11.89	l –	445.04	443.52	449.61	462.52	-
Intercity and rural bus transportation	413	13.69	13.34	12.88	13.00	-	529.80	510.92	511.34	507.00	-
Trucking and warehousing	12	13.41	13.48	13.68	13.75	l _	541.76	543.24	556.78	554,13	_
Trucking and courier services, except air	421	13.68	13.70	13.92	13.99	_	551.30	549.37	565.15	562.40	_
Public warehousing and storage	422	10.80	11.15	11.18	11.27	-	448.20	460.50	465.09	467.71	-
Motor transportation:	1	1					!				1
Water transportation: Water transportation services	449	21.22	20.25	20.58	21.17	-	829.70	773.55	771.75	806.58	! –
	1	20.04	20.70	20.02	20.00	_	942.30	921.15	947.68	965.54	_
Pipelines, except natural gas	146	20.94	20.70	20.92	20.99	_	942.30	921.15	947.00	905.54	_
Transportation services	. 47	13.56	13.39	13.82	14.11	-	513.92	496.77	530.69	555.93	-
Passenger transportation arrangement	. 472	13.89	13.57	14.22	14.75	[-	527.82	493.95	548.89	582.63	-
Travel agencies	4724	14.12	13.77	14.53	15.09	-	540.80	503.98	573.94	611.15	(-
Freight transportation arrangement	. 473	13.66	13.54	13.66	13.81	-	506.79	503.69	514.98	539.97	-
Communications	. 48	17.21	17.21	17.45	17.48	-	698.73	695.28	708.47	713.18	-
Telephone communications	. 481	17.76	17.74	17.90	18.00	-	747.70	745.08	758.96	761.40	- 1
Telephone communications, except radio	.]4813	18.27	18.29	18.45	18.49	-	772.82	773.67	793.35	793.22	\ ~
Radio and television broadcasting	. 483	17.55	17.74	18.08	18.00	-	631.80	629.77	636.42	640.80	-
Cable and other pay television services	. 484	13.80	13.73	14.36	14.21	-	550.62	543.71	571.53	576.93	-
Electric, gas, and sanitary services	.]49	19.59	19.50	20.13	20.43	-	836.49	815.10	857.54	884.62	-
Electric services	.]491	20.73	20.54	21.23	21.77	-	872.73	835.98	889.54	933.93	- 1
Gas production and distribution	. 492	18.64	18.50	18.60	19.14	-	822.02	789.95	807.24	844.07	-
Combination utility services	. 1493	23.38 15.15	23.22 15.39	24.70 15.82	24.13 16.04	_	1,010.02 643.88	1,010.07 652.54	1,047.28 696.08	1,054.48 702.55	_
									ļ		\$5.40
Vholesale trade	1	13.76	13.72	14.13	14.29	\$14.27	532.51	526.85	541.18	553.02	\$549.4
Durable goods	50	14.34	14.27	14.78	14.96	۱ -	566.43	557.96	574.94	589.42	l -
Motor vehicles, parts, and supplies	501	12.50	12.67	12.94	13.18	-	475.00	480.19	482.66	496.89	-
Furniture and home furnishings	. 502	12.69	12.71	13.26	13.35	-	480.95	485.52	493.27	497.96	-
Lumber and other construction materials		13.00	12.87	13.39	13.52	-	518.70	508.37	542.30	542.15	-
Professional and commercial equipment	. 504	16.89	16.73	17.48	17.60	-	682.36	664.18	688.71	714.56	_
Medical and hospital equipment	. 504/	16.40	16.58 13.76	17.51 13.92	17.71	-	657.64 577.08	649.94 575.17	684.64 572.11	713.71 584.32	_
Metals and minerals, except petroleum		13.74	15.48	15.73	16.09	-	620.93	608.36	618.19	640.38	
Electrical goods		15.68 13.64	13.40	13.88	14.02] _	538.78	529.59	538.54	549.58	_
Hardware, plumbing, and heating equipment	. 507	14.42	14.32	14.99	15.10]	572.47	564.21	590.61	599.47	_
Misc. wholesale trade durable goods	509	11.06	11.20	11.49	11.50	-	420.28	422.24	421.68	424.35	-
Nondurable goods	51	12.89	12.91	13.19	13.30	\ _ ·	485.95	482.83	495.94	501.41	_
Paper and paper products	511	13.54	13.10	13.91	13.95	! _	502.33	478.15	516.06	528.71	l _
Drugs, proprietaries, and sundries		17.02	16.80	17.54	17.77	!	622.93	606.48	634.95	661.04	_
Apparel, piece goods, and notions		12.32	12.54	13.03	13.01	- 1	471.86	467.74	480.81	482.67	_
Groceries and related products		13.11	13.18	13.27	13.27	-	506.05	507.43	512.22	512.22	_
Farm-product raw materials		9.74	9.84	10.01	10.16	-	344.80	331.61	378.38	354.58	-
Chemicals and allied products		14.74	14.67	15.21	15.50	-	591.07	588.27	608.40	629.30	-
Petroleum and petroleum products	. 517	11.93	11.90	12.02	12.07	-	454.53	449.82	454.36	462.28	_
Beer, wine, and distilled beverages Misc. wholesale trade nondurable goods		15.00	15.31 10,61	15.28 10.94	15.54 11.04	-	567.00 381.91	574.13 385.14	573.00 394.93	585.86 399.65	} _
Netall trade		8.51	8.51	8.86	8.87	8.89	245.09	248.49	256.05	256.34	259.
	1	1	!			l	1	·	ł	}	
Building materials and garden supplies	. 52	10.06	10.00	10.50	10.62	j –	346.06	344.00	368.55	371.70	-
Lumber and other building materials		10.44	10.36	10.95	11.11	-	374.80	370.89	404.06	408.85	i -
Paint, glass, and wallpaper stores	. 523	10.80	10.62	10.78	10.87	-	387.72	379.13	375.14	389.15	-
Hardware stores	. 525	8.31	8.32	8.66	8.69	-	257.61	258.75	263.26	262.44	-
Retail nurseries and garden stores	1526	9.12	9.13	9.42	9.59	I -	275.42	278.47	301.44	299.21	! -

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

	1987		Avera	ge weekly	hours			Averag	e overtim	e hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p
Retail trade—Continued											
General merchandise stores	53	29.8	31.2	29.4	29.5	} <u> </u>	۱ -	_	_	i -	i _
Department stores		29.8	31.3	29.4	29.6	l _		_		ـ ا	l _
Variety stores		27.7	29.3	27.7	27.7	_	_	_	_	l <u> </u>	
Misc, general merchandise stores		30.0	31.1	30.1	29.9	_			_	-	_
Misc. general merchanoise stores	339	30.0	31.1	30.1	25.5	_		_	_	-	-
Food stores	54	29.7	29.6	29.7	29.7	} _	-	-	-	-	_
Grocery stores	541	29.8	29.6	29.8	29.8	l –	-	_	-	l –	_
Retail bakeries		28.9	29.4	29.1	28.8	-	-	-	-	-	-
Automotive dealers and service stations	55	35.6	35.2	35.5	35.6	_	_	_	_	_	_
		37.0	36.8	37.0	37.1		_	_	_	_	-
New and used car dealers										1	-
Auto and home supply stores		38.2	37.5	37.9	38.3	~	-	-	-	-	-
Gasoline service stations		31.9	31.4	31.8	31.9		_	-	_	-	-
Automotive dealers, nec	559	35.1	35.2	35.5	36.1		_	-	-	-	
Apparel and accessory stores	56	26.6	27.3	26.5	26.3	-	-	_	- :	-	_
Men's and boys' clothing stores	561	28.9	30.0	28.6	27.8	_	-	_	- '	-	-
Women's clothing stores		24.9	25.1	24.0	23.4	i - :		_	_	_	_
Family clothing stores		27.4	28.2	27.3	27.5	- 1	_	_	_	_	_
Shoe stores		26.0	26.9	26.4	26.3	-	- 1	_	_	_	_
Frontier and be an Americking areas		20.0	20.5	00.0							
Furniture and home furnishings stores		33.2	33.5	32.9	33.0	-	-	_	_	-	-
Furniture and home furnishings stores		33.1	33.1	33.0	33.1	_	_	-	-	-	-
Household appliance stores		34.8	35.3	34.4	34.1	_	-	- !	-	-	-
Radio, television, and computer stores	573	33.0	33.8	32.7	32.6	_	-	-	-	-	-
Radio, television, and electronic stores	5731	33.1	35.0	32.1	32.6	- 1	-	_	-	-	_
Record and prerecorded tape stores	5735	25.0	26.7	25.8	24.0	-	-	-	-	-	_
Eating and drinking places4	58	25.1	25.2	25.4	25.4	-	-	_	-	-	-
Miscellaneous retail establishments	59	29.3	30.5	29.4	29.4	-	_	_	_	-	_
Drug stores and proprietary stores		28.7	28.9	28.6	28.7	_	_	_	_	_	_
Used merchandise stores		30.8	30.6	30.4	30.3			-	_	-	_
Miscellaneous shopping goods stores		27.2	29.3	27.5	27.4	_]	_	_		_	_
Nonstore retailers		33.0	34.5	32.4	33.1		_	_	_	_	_
Fuel dealers		39.0	39.3	37.6	38.6		_		_	_	_
Retail stores, nec		30.0	31.0	30.7	30.4	_ :		_	_		_
											_
Optical goods stores		33.0 30.2	33.0 30.7	34.1 30.8	34.0 30.4	_	_	_	_	-	_
Finance, insurance, and real estate ⁵		36.7	35.9	36.1	37.0	36.1	-	-	-	-	-
Depository institutions	60	36.1	34.9	35.2	36.5	-	_	-	_	-	_
Commercial banks		36.0	34.6	35.1	36.7	_	-	-	-	-	_
State commercial banks		36.1	35.0	35.1	36.1	- '	-	_	_	-	_
National and commercial banks, nec	6021.9	35.8	34.3	35.0	37.1		_ '	-		-	-
Credit unions		36.3	35.7	35.6	35.9	- 1	-	-	-	-	-
Namelana sitany imatity tiana		38.6	37.2	38.2	39.7				1		
Nondepository institutions	614	39.4	37.8	38.3	40.4			_	_ :	_	_
									'		
Security and commodity brokers:	620	20.0	27.0	20.0	30.6				'		
Security and commodity services	028	38.9	37.3	38.2	39.6	-	_	_	_	_	_
Insurance carriers		39.1	38.5	38.6	39.1	-	-	_	-		_
Life insurance	631	38.4	37.7	38.6	39.2	-	-	-	-	-	-
Medical service and health insurance		39.0	39.3	38.7	38.8		-	-	_	- '	_
Hospital and medical service plans		39.3	39.7	39.2	39.2	l –	l –	l -	l –	۱ ــ	-
Fire, marine, and casualty insurance		39.9	38.9	38.8	39.1	-	-	_	-	-	_
Services		32.8	32.6	32.6	32.8	32,7	_	_	_	_	_
### TIC 93		32.0	32.0	32.0	32.0	32.1	-	_	_	, -	-
				35.5							

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

	1987		Averag	e hourly e	arnings		-	Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p
Retail trade—Continued											
General merchandise stores	53	\$8.27	\$8.29	\$8.62	\$8.55	_	\$246.45	\$258.65	\$253.43	\$252.23	_
Department stores	531	8,31	8.35	8.67	8.60	_	247.64	261.36	254,90	254.56	_
Variety stores	533	7,54	7.47	7.78	7.74	_	208.86	218.87	215,51	214,40	_
Misc. general merchandise stores	539	8.13	8.13	8.41	8.38	-	243.90	252.84	253.14	250.56	-
Food stores	54	8.80	8.81	9.17	9.19	_	261.36	260.78	272.35	272.94	_
Grocery stores	541	8.92	8.94	9.26	9.29	_	265.82	264.62	275.95	276.84	_
Retail bakeries	546	7.65	7.78	8.30	8.18	-	221.09	228.73	241.53	235.58	-
Automotive dealers and service stations	55	11.67	11.54	12.18	12.27		415.45	406.21	432.39	436.81	_
New and used car dealers	551	14.66	14.36	15.25	15.42	_	542.42	528.45	564.25	572.08	_
Auto and home supply stores	553	9.72	9.64	10.13	10.14	_	371.30	361.50	383.93	388.36	_
Gasoline service stations	554	7.63	7.71	7.95	7.95	_	243.40	242.09	252.81	253.61	_
Automotive dealers, nec		12.46	12.61	13.06	13.66	-	437.35	443.87	463.63	493.13	-
Apparel and accessory stores	56	8.20	8.17	8.57	8.54	_	218.12	223.04	227.11	224.60	_
Men's and boys' clothing stores	561	9.97	9.89	10.22	10.02	_	288.13	296.70	292.29	278.56	_
Women's clothing stores	562	8.10	8.08	8.49	8.51	_	201.69	202.81	203.76	199.13	-
Family clothing stores	565	7.93	7.85	8.39	8.35	_	217.28	221.37	229.05	229.63	_
Shoe stores	566	8.07	8.23	8.26	8.24	-	209.82	221.39	218.06	216.71	-
Furniture and home furnishings stores	57	11.57	11.56	12.00	12.06	_	384.12	387.26	394.80	397.98	_
Furniture and home furnishings stores	571	10.97	11.03	11.34	11.46	_	363.11	365.09	374.22	379.33	_
Household appliance stores	572	11.04	11.06	11.14	11.32	-	384.19	390.42	383.22	386.01	_
Radio, television, and computer stores	573	12.36	12.24	12.92	12.86	_	407.88	413.71	422.48	419.24	_
Radio, television, and electronic stores	5731	11.21	11.46	11.66	11,77	_	371.05	401.10	374.29	383.70	~
Record and prerecorded tape stores		7.07	6.92	7.27	7.17	_	176.75	184.76	187.57	172.08	-
Eating and drinking places ⁴	58	6.21	6.28	6.45	6.45	-	155.87	158.26	163.83	163.83	~
Miscellaneous retail establishments	59	9.16	9.12	9.53	9.52	-	268.39	278.16	280.18	279.89	-
Drug stores and proprietary stores	591	9.83	9.85	10.13	10.17	-	282.12	284.67	289.72	291.88	_
Used merchandise stores	593	7.72	7.76	7.98	7.99	-	237.78	237.46	242.59	242.10	-
Miscellaneous shopping goods stores	594	8.43	8.36	8.80	8.78	-	229.30	244.95	242.00	240.57	-
Nonstore retailers	596	9.53	9.60	9.96	9.90	_	314.49	331.20	322.70	327.69	_
Fuel dealers		12.75	12.87	12.88	13.08	-	497.25	505.79	484.29	504.89	-
Retail stores, nec	599	9.24	9.16	9.72	9.64	-	277.20	283.96	298.40	293.06	-
Optical goods stores	5995	11.17	11.18	11.43	11.36	_	368.61	368.94	389.76	386.24	_
Miscellaneous retail stores, nec	5999	9.55	9.45	10.01	9.95	-	288.41	290.12	308.31	302.48	-
Finance, insurance, and real estate ⁵		13.72	13.64	14.20	14.41	\$14.33	503.52	489.68	512.62	533.17	\$517.31
Depository institutions	60	10.53	10.55	10.95	11.09	-	380.13	368.20	385.44	404.79	_
Commercial banks	602	10.04	10.13	10.56	10.72	-	361.44	350.50	370.66	393.42	_
State commercial banks	6022	9.86	9.94	10.29	10.38	_ '	355.95	347.90	361.18	374.72	_
National and commercial banks, nec		10.16	10.26	10.76	10.96	- !	363.73	351.92	376.60	406.62	-
Credit unions		10.36	10.32	10.66	10.80	-	376.07	368.42	379.50	387.72	-
Nondepository institutions	61	14.16	14.07	14.61	14.96	_	546.58	523.40	558.10	593.91	_
Personal credit institutions	614	11.96	11.85	12.12	12.42	-	471.22	447.93	464.20	501.77	-
Security and commodity brokers:											
Security and commodity services	628	20.02	20.07	21.10	21.40	-	778.78	748.61	806.02	847.44	-
Insurance carriers	63	16.43	16.16	16.81	16.93	-	642.41	622.16	648.87	661.96	-
Life insurance	631	14.98	14.91	15.28	15.32	- 1	575.23	562.11	589.81	600.54	-
Medical service and health insurance		15.20	15.18	16.14	16.27	-	592.80	596.57	624.62	631.28	-
Hospital and medical service plans		15.54	15.60	16.56	16.67	_	610.72	619.32	649.15	653.46	_
Fire, marine, and casualty insurance		18.03	17.51	18.06	18.25	-	719.40	681.14	700.73	713.58	_
Services		12.57	12.61	13.01	13.14	13.18	412.30	411.09	424.13	430.99	430.99
	07	9.74	9.96	10.09	10.18	ı	326.29	324.70	358.20	352.23	1

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

	1987		Avera	ge weekly	hours			Averag	e overtim	e hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998
ervices—Continued											
Agricultural services—Continued	1		1						ì		Į
Veterinary services	074	29.0	28.3	28.8	28.5	-	_	_		-	-
Landscape and horticultural services		35.4	34.6	38.3	37.0	-	_	_	-	-	-
Hotels and other lodging places:		1								Ì	1
Hotels and motels4	701	31.2	30.2	31.5	31.3	-	-	-	-	-	-
Personal services:		l	!								
Laundry, cleaning, and garment services	721	34.4	34.4	34.5	34.3	l –	- '	-	-	-	! –
Beauty shops4	723	28.2	28.5	28.0	28.0	!	- ,		-	-	l –
Miscellaneous personal services	729	27.7	27.7	27.4	27.4	-	-	- '	-	-	-
Business services	73	33.7	33.6	33.7	33.9	_		-	_	-	_
Advertising	731	37.2	36.3	36.6	37.6	-		-	-	-	-
Mailing, reproduction, and stenographic services:						ł				<u> </u>	
Photocopying and duplicating services	7334	37.5	37.2	35.6	36.2	-	- 1		_	-	l –
Services to buildings	734	28.5	28.4	28.4	28.7	_	_	_	_	-	
Disinfecting and pest control services		36.9	35.4	37.8	38.9	-	_		-	_	۱ ـ
Building maintenance services, nec		27.7	27.8	27.4	27.7	_		_	_	l –	
Miscellaneous equipment rental and leasing		38.8	38.9	39.2	39.2	_	_		_	_	ـ ا
Medical equipment rental		37.0	36.7	36.6	37.4	_	_	_			l _
Heavy construction equipment rental		40.3	40.5	41.2	40.9	_	_	_	_	_	i _
Equipment rental and leasing, nec		38.8	38.9	39.2	39.2	_	_	_	-	-	-
Personnel supply services:	ĺ	l	l							l .	
Help supply services		32.5	32.6	32.7	32.5	-	-	-	-	-	-
Computer and data processing services	737	39.0	38.4	38.5	39.2	-	-	-	_	-	-
Computer programming services	7371	38.7	38.1	38.2	38.8	_	-	_	-	i – '	-
Computer integrated systems design	7373	39.8	38.6	39.6	40.8	-	-	-	-	-	-
Information retrieval services		38.3	38.2	39.3	39.3	_	-	-	-	- '	-
Computer maintenance and repair	7378	38.8	38.8	40.2	40.8	-	_	-	-	-	-
Miscellaneous business services	738	33.2	33.2	33.3	33.5	_	_	_	_	-	- 1
Detective and armored car services	7381	34.4	34.5	34.5	34.9	-	-	- 1	-	l – :	-
Security systems services	7382	35.5	35.3	36.8	36.9	-	-	-	-	-	-
Auto repair, services, and parking	75	35.9	35.8	36.0	35.6	_	_	_ :	_	_	_
Automotive rentals, without drivers	751	36.2	36.4	36.6	36.5	_	-	_	_	_ '	_
Passenger car rental		36.4	36.5	36.4	36.3	_	_	_ 1	_	l _	l _
Automobile parking		33.6	33.1	32.5	32.6	_	_	_	_	l _ ·	l _
Automotive repair shops		38.2	38.1	38.1	38.0	_	_	_	_	l <u>-</u>	l _
Automotive and tire repair shops		38.4	38.3	38.2	38.1	_	_	_	_	_ :	_
General automotive repair shops	7538	37.7	37.6	37.9	37.8	_		_		l _	_
Automotive services, except repair		30.6	30.7	31.3	30.2	_	_	_	_	_	_
Carwashes		26.4	27.5	28.8	26.5	_	_	_	_	_	_
Miscellaneous repair services	76	38.3	38.4	38.5	38.1	-	-	-	-	-	-
Motion pictures	78	30.3	30.0	29.9	30.3	_	_	_	_	_	_
Motion picture production and services	781	39.6	39.8	39.5	39.5	_	_	_		_	- 1
Video tape rental	784	24.5	23.8	22.6	23.5	-	-	-	-	-	-
Amusement and recreation services	79	26.8	26.6	26.1	26.5	_	-	-	_	_	-
Bowling centers	793	25.0	24.8	25.2	25.4	-	_	_ '	_	-	-
Misc. amusement and recreation services		26.0	26.1	25.7	26.0	-	_	-	-	l	l –
Physical fitness facilities		19.6	18.6	19.7	19.7	۱ -	_	_ `	_	-	l _
Membership sports and recreation clubs		27.7	29.2	27.7	27.4	-	-	-	-	-	-
Health services	80	33.3	33.1	32.9	33.2	_	_	-	_	1 _	-
Offices and clinics of medical doctors		33.6	33.1	32.7	33.1	-	_	- 1	-	-	-
Offices and clinics of dentists		28.7	28.5	27.9	28.4	-	_	-	-	_	-
Offices and clinics of other health practitioners		30.3	30.0	30.1	30.6	l –	_	l –	_		۱ –
Nursing and personal care facilities		32.7	32.4	32.4	32.8	l –	_	-	_	-	۱ –
Intermediate care facilities		32.2	32.0	31.6	32.0	l <u>-</u>	_	_	_	l _	1 _
Hospitals		35.2	35.1	34.8	34.9	l _	l _	l _	l _	٦ []
1100pitalo	1000	00.2	l ^{55.}	04.0	54.5	I -	1 -	I -	I -	, -	1 -

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

	1987		Averag	e hourly e	arnings			Averag	e weekly e	arnings	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998
ervices—Continued											
Agricultural services—Continued											
Veterinary services	074	\$9.74	\$9.84	\$10.04	\$10.13	_	\$282.46	\$278.47	\$289.15	\$288.71	_
Landscape and horticultural services	078	9.81	10.08	10.15	10.24	-	347.27	348.77	388.75	378.88	-
Hotels and other lodging places: Hotels and motels ⁴	704	8.81	8.95	9.05	9,13	_	274.87	270.29	285.08	285.77	_
Hotels and motels*	701	8.01	6.95	9.05	9.13	_	214.01	2/0.29	200.00	200.77	_
Personal services: Laundry, cleaning, and garment services	721	8.18	8.23	8.50	8.55	_	281,39	283.11	293.25	293.27	_
Beauty shops ⁴	722	9,15	9.45	9.27	9.39	_	258.03	269.33	259.56	262.92	_
Miscellaneous personal services	729	8.76	9.01	9.32	9.37	_	242.65	249.58	255.37	256.74	_
Business services	73	12.08	12.09	12.65	12.82	_	407.10	406.22	426.31	434.60	_
Advertising	731	17.18	17.11	17.64	17.95	_	639.10	621.09	645.62	674.92	-
Mailing, reproduction, and stenographic services:	l. • .	.,.,5									
Photocopying and duplicating services	7334	11.24	11.08	11.48	11.44	_	421.50	412.18	408.69	414.13	_
Services to buildings	734	8.11	8.07	8.31	8.34		231.14	229.19	236.00	239.36	_
Disinfecting and pest control services	7242	11.18	11.00	11.42	11.59		412.54	389.40	431.68	450.85	_
Disinfecting and pest control services	7042			7.89			214.12	214.89	216.19	218.83	
Building maintenance services, nec	7349	7.73	7.73		7.90 13.00	_	472.97	476.53	509.99	509.60	_
Miscellaneous equipment rental and leasing		12.19	12.25	13.01					473.24	486.57	_
Medical equipment rental	7352	11.65	11.86	12.93	13.01		431.05	435.26			_
Heavy construction equipment rental	7353	15.87	15.98	16.75	16.70	-	639.56	647.19	690.10	683.03	_
Equipment rental and leasing, nec	l	11.22	11.23	11.87	11.86	-	435.34	436.85	465.30	464.91	_
Help supply services	7363	9.77	9.87	10.20	10.28	_	317.53	321.76	333.54	334.10	-
Computer and data processing services	737	20.64	20.56	21.46	21.73	_	804.96	789.50	826.21	851.82	-
Computer programming services		23.77	23.70	24.74	25.11	_	919.90	902.97	945.07	974.27	_
Computer integrated systems design	7373	20.75	20.61	20.91	21,10	_	825.85	795.55	828.04	860.88	_
Information retrieval services	7375	15.39	15.56	15.86	15.98	_	589.44	594.39	623.30	628.01	_
Computer maintenance and repair	7378	15.54	15.46	17.00	17.56	_	602.95	599.85	683.40	716.45	
Miscellaneous business services	728	9.95	9.96	10.21	10.22	_	330.34	330.67	339.99	342.37	_
Detective and armored car services	7381	8.03	8.11	8.37	8.42	_	276.23	279.80	288.77	293.86	
Security systems services	7382	12.65	12.75	13.79	13.76	-	449.08	450.08	507.47	507.74	~
Auto repair, services, and parking	75	10.85	10.86	11.18	11.24	_	389.52	388.79	402.48	400.14	-
Automotive rentals, without drivers	751	10.28	10.32	10.62	10.70	-	372.14	375.65	388.69	390.55	-
Passenger car rental	7514	9.30	9.29	9.54	9.60	-	338.52	339.09	347.26	348.48	_
Automobile parking	752	8.19	8.42	8.23	8.17	-	275.18	278.70	267.48	266.34	_
Automotive repair shops	753	12.10	12.16	12.59	12.64	-	462.22	463.30	479.68	480.32	_
Automotive and tire repair shops	7532 4	12.67	12.77	13.25	13.35	_	486.53	489.09	506.15	508.64	-
General automotive repair shops		12.05	12.08	12.44	12.47	_	454.29	454.21	471.48	471,37	_
Automotive services, except repair	7530	8.42	8.25	8.58	8.60	_	257.65	253.28	268.55	259.72	_
Carwashes		7.28	7.26	7.54	7.53	_	192.19	199.65	217.15	199.55	-
Miscellaneous repair services	76	12.90	13.01	13.46	13.46	_	494.07	499.58	518.21	512.83	-
Motion pictures	78	14.71	14.97	15.08	15.27	_	445.71	449.10	450.89	462.68	-
Motion picture production and services	781	20.32	20.86	20.30	20.97	_	804.67	830.23	801.85	828.32	-
	784	6.79	6.86	7.23	7.23	-	166.36	163.27	163.40	169.91	-
Amusement and recreation services	79	9.85	9.87	9.89	10.14	_	263.98	262.54	258.13	268.71	-
Bowling centers	793	7.45	7.54	7.56	7.65		186.25	186.99	190.51	194.31	l –
Misc. amusement and recreation services		9.06	9.14	9.05	9.26	-	235.56	238.55	232.59	240.76] -
Physical fitness facilities		8.59	8.70	8.90	9.00	_	168.36	161.82	175.33	177.30	j -
Membership sports and recreation clubs		9.35	9.62	9.61	9.75	-	259.00	280.90	266.20	267.15	-
Health services		13.45	13.51	13.86	13.89	_	447.89	447.18	455.99	461.15	-
Offices and clinics of medical doctors		14.01	14.11	14.41	14.46	_	470.74	467.04	471.21	478.63	-
Offices and clinics of dentists	802	13.88	13.90	14.27	14.37	_	398.36	396.15	398.13	408.11	-
Offices and clinics of other health practitioners		12.88	12.96	13.08	13.07	_	390.26	388.80	393.71	399.94	-
Nursing and personal care facilities		9.50	9.53	9.88	9.87	_	310.65	308.77	320.11	323.74	۱ ـ
Intermediate care facilities		8.99	9.02	9.44	9.45	_	289.48	288.64	298.30	302.40	-
		15.21	15.26	15.63	15.65	_	535.39	535.63	543.92	546.19	_
Hospitals	1000	13.21	13.20	13.03	13.03	_	333.38	303.63	J43.52	J40.19	_

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

	1987		Avera	ge weekly	hours			Averag	e overtim	ne hours	
Industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998 ^p	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998
Services—Continued											
Health services—Continued	1	({	1			1	
Home health care services	808	29.1	29.1	28.9	28.9	-	-	-	-	-	-
Legal services	81	35.6	34.7	34,7	35.5	-	-	-	-	-	-
Social services	83	31.6	31.2	31.3	31.6	_	_	-	-	_	_
Individual and family services	832	31.7	31.4	31.3	31.8	-	-	i –	_	_	l –
Job training and related services	833	31.2	30.7	30.8	31.1	-	-	l –	_	-	-
Child day care services	835	30.4	29.8	29.9	29.9	-	-	l –	-	-	l –
Residential care	836	32.6	32.0	32.2	32.7	-		l –	-	. –	l –
Social services, nec	839	32.8	32.2	32.4	33.0	-	-	-	-	-	-
Membership organizations:	1									<u> </u>	
Professional organizations	862	35.7	35.1	35.3	36.0	-	-	_	-	-	-
Engineering and management services		37.5	37.0	37.0	37.6	-	-	- :	_	_	-
Engineering and architectural services	871	39.6	39.4	39.3	39.5	- 1	-	- :	_	-	-
Engineering services	8711	39.9	39.7	39.7	39.7	-	- 1	- 1	-	- '	- 1
Architectural services	8712	38.7	38.4	38.1	38.8	-	-	- 1	-	-	-
Surveying services		37.8	38.0	38.4	38.1	-	-	- !	-	-	-
Accounting, auditing, and bookkeeping		36.5	35.8	36.1	36.8	-	-	- 1	_		-
Research and testing services	873	36.9	36.3	36.3	36.7	-	- 1	- !	-	-	-
Commercial physical research	8731	40.5	39.6	39.5	39.7	- 1	-	- '	_	- 1	l –
Commercial nonphysical research		30.6	30.4	30.7	31.3	-	-	- !	-	- '	1 -
Noncommercial research organizations		36.5	35.8	35.6	36.3	-	-	-	-	- '	-
Management and public relations		36.5	35.9	35.8	36.7	-	-	-	-	-	1 -
Management services		35.3	34.7	34.5	35.4	-	-	-	-	- '	1 –
Management consulting services	8742	36.9	36.3	36.2	37.2	-	-	-	-	- '	1 -
Public relations services		36.3	34.3	34.5	34.8	-	-	-	-	-	-
Services, nec	89	35.2	34.6	35.2	36.0	_	-	_	-	-	-

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

	1987		Averag	e hourly e	arnings			Averaç	je weekly e	arnings	
industry	SIC Code	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998 ^p	Dec. 1998P	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Services—Continued	}										
Health services—Continued		!									
Home health care services	808	\$11.39	\$11.45	\$11.55	\$11.66	-	\$331.45	\$333.20	\$333.80	\$336.97	-
Legal services	81	17.75	17.61	18.19	18.54	- :	631.90	611.07	631.19	658.17	-
Social services	83	8.98	8.98	9.31	9.38	_	283.77	280.18	291.40	296.41	_
Individual and family services		9.51	9.46	9.81	9.88	-	301.47	297.04	307.05	314.18	_
Job training and related services	833	8.70	8.68	9.03	9.17	_	271.44	266.48	278,12	285.19	-
Child day care services	835	7.73	7.77	8.04	8.10	-	234.99	231.55	240.40	242.19	_
Residential care	836	9.06	9.10	9.42	9.44	-	295.36	291.20	303.32	308.69	_
Social services, nec	839	10.95	10.85	11.22	11.32	-	359.16	349.37	363.53	373.56	_
Membership organizations:											
Professional organizations	862	18.22	18.07	18.46	18.51	-	650.45	634.26	651.64	666.36	-
Engineering and management services	87	17.64	17.55	18.10	18.27		661.50	649.35	669.70	686.95	_
Engineering and architectural services	871	19.38	19.39	19.79	19.96	-	767.45	763.97	777.75	788.42	-
Engineering services	8711	20.24	20.30	20.68	20.89	-	807.58	805.91	821.00	829.33	_
Architectural services	8712	17.37	17.11	17.71	17.79	_	672.22	657.02	674.75	690.25	-
Surveying services	8713	13.46	13.44	14.05	14.02	_	508.79	510.72	539.52	534.16	_
Accounting, auditing, and bookkeeping	872	15.30	15.11	15.64	15.96	-	558.45	540.94	564.60	587.33	-
Research and testing services	873	18.23	18.03	18.40	18.51	-	672.69	654.49	667.92	679.32	-
Commercial physical research	8731	20.37	19.97	20.36	20.60	-	824.99	790.81	804.22	817.82	-
Commercial nonphysical research		14.18	14.08	15.12	15.20	-	433.91	428.03	464.18	475.76	-
Noncommercial research organizations		21.53	21.48	21.59	21.45	-	785.85	768.98	768.60	778.64	~ -
Management and public relations	874	16.74	16.65	17.56	17.71	-	611.01	597.74	628.65	649.96	_
Management services	8741	15.36	15.29	15.85	15.87	-	542.21	530.56	546.83	561.80	-
Management consulting services	8742	18.65	18.39	20.02	20.32	-	688.19	667.56	724.72	755.90	-
Public relations services	8743	15.43	15.29	16.09	16.25	-	560.11	524.45	555.11	565.50	-
Services, nec	89	17.03	16.86	17.48	17.49	-	599.46	583.36	615.30	629.64	_

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. See table B-15a for average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. Data relate to line-haul railroads with operating revenues of \$253.7 million or more in 1993 and to Amtrak.

Money payments only; tips, not included.
 Excludes nonoffice commissioned real estate sales agents.
 Data not available.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 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

		Aircraft (S	SIC 3721)		Guided r	nissiles and sp	ace vehicles (S	IC 3761)
Series	Oct. 1997	Nov. 1997	Oct. 1998	Nov. 1998P	Oct. 1997	Nov. 1997	Oct. 1998	Nov. 1998P
Average hourly earnings, excluding lump-sum payments	\$20.97	\$20.91	\$2 1.51	\$21.56	\$20.81	\$21.06	\$21.55	\$21.61
Average hourly earnings, including lump-sum payments	21.28	21.21	21.59	21.64	20.81	21.06	21.78	21.84

P = preliminary.

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

Industry	Nov. 1997	Dec. 1997	Oct. 1998	Nov. 1998P	Dec. 1998P
Manufacturing	\$12.60	\$12.68	\$12.82	\$12.87	\$12.94
Durable goods	13.12	13.19	13.28	13.32	13.38
Lumber and wood products	10.34	10.37	10.64	10.67	(2)
Furniture and fixtures	10.21	10.26	10.51	10.52	(2)
Stone, clay, and glass products	12.52	12.56	12.69	12.74	(2) (2) (2)
Primary metal industries	14.27	14.29	14.31	14.30	(2)
Fabricated metal products	12.16	12.23	12.46	12.51	i (2)
Industrial machinery and equipment	13.40	13.44	13.77	13.84	(2)
Electronic and other electrical equipment	12.32	12.41	12.55	12.58	(2) (2)
Transportation equipment	16.68	16.74	16.48	16.46	(2) (2)
Instruments and related products	13.02	13.02	13.32	13.34	(2)
Miscellaneous manufacturing	10.25	10.35	10.57	10.59	(2)
Nondurable goods	11.81	11.90	12.15	12.21	\$12.29
Food and kindred products	10.89	11.03	11.08	11.20	(2)
Tobacco products	17.28	17.79	16.52	16.84	(2)
Textile mill products	9.61	9.67	9.90	9.95	(2)
Apparel and other textile products	8.08	8.14	8.41	8.39	(2)
Paper and allied products	14.23	14.29	14.62	14.66	(2) (2) (2) (2)
Printing and publishing	12.63	12.69	13.01	12.96	(2) (2)
Chemicals and allied products	15.85	15.92	16.25	16.30	(2)
Petroleum and coal products	19.07	19.34	19.41	19.50	(2) (2)
Rubber and misc. plastics products	11.01	11.11	11.29	11.36	(2)
Leather and leather products	8.87	8.94	9.15	9.15	(2)

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

Not available.

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision.

p = preliminary.

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

		Averag	e hourly e	arnings			Averag	e weekly e	amings	
Industry	Nov.	Dec.	Oct.	Nov.	Dec.	Nov.	Dec.	Oct.	Nov.	Dec.
	1997	1997	1998	1998P	1998P	1997	1997	1998	1998P	1998P
Total private: Current dollars Constant (1982) dollars	\$12.53	\$12.53	\$12.92	\$12.99	\$12.99	\$436.04	\$436.04	\$447.03	\$450.75	\$450.75
	7.66	7.67	7.80	7.83	(2)	266.53	267.02	269.78	271.86	(2)
Mining: Current dollars Constant (1982) dollars	16.41	16.52	17.13	17.32	\$17.41	748.30	746.70	752.01	760.35	\$757.34
	10.03	10.12	10.34	10.45	(2)	457.40	457.26	453.84	458.59	(2)
Construction: Current dollars Constant (1982) dollars	16.28	16.37	16.86	16.80	\$16.83	615.38	630.25	674.40	646.80	\$659.74
	9.95	10.02	10.18	10.13	(2)	376.15	385.95	407.00	390.11	(2)
Manufacturing: Current dollars Constant (1982) dollars	13.36	13.47	13.54	13.60	\$13.69	569.14	579.21	567.33	572.56	\$583.19
	8.17	8.25	8.17	8.20	(2)	347.89	354.69	342.38	345.33	(2)
Transportation and public utilities: Current dollars Constant (1982) dollars	15.19	15.17	15.43	15.53	\$15.57	613.68	603.77	606.40	616.54	\$607.23
	9.28	9.29	9.31	9.37	(2)	375.11	369.73	365.96	371.86	(2)
Wholesale trade: Current dollars Constant (1982) dollars	13.76	13.72	14.13	14.29	\$14.27	532.51	526.85	541.18	553.02	\$549.40
	8.41	8.40	8.53	8.62	(2)	325.50	322.63	326.60	333.55	(2)
Retail trade Current dollars Constant (1982) dollars	8.51	8.51	8.86	8.87	\$8.89	245.09	248.49	256.05	256.34	\$259.59
	5.20	5.21	5.35	5.35	(2)	149.81	152.17	154.53	154.61	(2)
Finance, insurance, and real estate: Current dollars	13.72	13.64	14.20	14.41	\$14.33	503.52	489.68	512.62	533.17	\$517.31
	8.39	8.35	8.57	8.69	(2)	307.78	299.87	309.37	321.57	(2)
Services: Current dollars Constant (1982) dollars	12.57	12.61	13.01	13.14	\$13.18	412.30	411.09	424.13	430.99	\$430.99
	7.68	7.72	7.85	7.93	(2)	252.02	251.74	255.96	259.95	(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.

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 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision.

Not available.

p = preliminary.

B-18. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas

	Aver	age weekly h	ours	Avera	age hourly ear	rnings	Avera	ge weekly ea	rnings
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998P	November 1997	October 1998	Novemb 1998
labana	42.6	42.0	42.3	\$12.03	\$12.13	\$12.36	\$512.48	\$509.46	\$522.
labanta	1	41.4	42.0	12.76	12.76	12.94	571.65	528.26	543.
Birmingham						13.61	631.37	616,53	627.
Mobile	44.4	45.2	46.1	14.22	13.64	13.61	631.37	010,00	02//
leska	43.9	51.5	37.6	13.35	11.31	12.91	586.07	582.47	485.4
rizona	41.7	39.4	39.4	11.80	12.38	12.37	492.06	487.77	487.
rkensas	41.6	41.5	41.9	10.92	11.15	11.21	454.27	462.73	469.
Fayetteville-Springdale-Rogers		41.3	43.1	10.59	10.88	10.75	435.25	449.34	463.
Fort Smith		42,8	43.5	11.07	11.31	11.32	472.69	484.07	492.
		41.6	41.7	11.75	11.78	11.83	499.38	490.05	493
Little Rock-North Little Rock		39.9	40.3	13.11	13,55	13.38	540.13	540.65	539
Lile Digit			1		.0.00	1	[İ
alifornia		41.8	42.0	13.35	13.68	13.74	568.71	571.82	577.
Bakersfield	40.1	41.4	41.4	13.85	14.08	13.98	555.39	582.91	578.
Fresno	40.8	41.0	40.8	11.93	11.96	12.11	486.74	490.36	494.
Los Angeles-Long Beach		42.4	42.6	12.56	12.77	12.82	538.82	541.45	546.
		41.0	41.7	13.16	13.68	13.75	552.72	560.88	573
Modesto		41.8	41.7	15.58	15.74	15.76	651.24	657.93	657
Oakland									574
Orange County		43.4	43.5	12.81	13.11	13.21	561.08	568.97	
Riverside-San Bernardino	41.7	42.6	42.0	11.88	12.16	12.27	495.40	518.02	515
Sacramento	40.8	40.6	40.9	14.45	14.79	14.78	589.56	600.47	604
Salinas		42,2	40.0	13.88	14.24	14.25	510.78	600.93	570
San Diego		40.0	40.2	13.39	13.70	13.77	546.31	548.00	553
		41.3	41.3	14.52	14.74	14.92	598.22	608.76	616
San Francisco		42.3	42.8	16.57	16.77	16.84	717.48	709.37	720
San Jose	43.3							585.86	584
Santa Barbara-Santa Maria-Lompoc		41.2	41.1	13.86	14.22	14.21	568.26		
Santa Rosa		40.3	39.9	14.85	15.28	15.40	589.55	615.78	614
Stockton-Lodi	42.5	42.9	42.4	13.44	13.56	13.52	571.20	581.72	573
Vallejo-Fairfield-Napa	42.8	43.7	43.2	15.33	15,71	15.69	656.12	686.53	677
Ventura	42.9	42.8	42.8	12.43	12.50	12.48	533.25	535.00	534
olorado	42.2	41.2	41.5	13.57	13.99	13.64	572.65	576.39	566
Denver		42.6	43.9	13.21	13.12	11.72	550.86	558.91	514
onnecticut	43.1	43.1	43.4	14.66	14.84	14.94	631.85	639.60	648
Bridgeport	43.5	42.4	42.3	15.03	15.16	15.27	653.81	642.78	645
Danbury		41.9	44.4	14.80	14.50	14.57	655.64	607.55	646
Hartford		43.7	43.8	15.49	15.68	15.66	686.21	685.22	685
New Haven-Meriden		42.2	42.8	14.59	14.87	14.90	622.99	627.51	637
New London-Norwich		42.5	42.8	15.13	15.63	15.67	647.56	664.28	670
	1	39.7	38.9	14.07	13.76	13.53	567.02	546.27	526
Stamford-Norwalk			43.9	13.61	14.08	14.28	589.31	613.89	626
Waterbury	43.3	43.6	43.9	13.61	14.08	14.20	369.31	013.09	020
elaware	42.4	42.7	42.5	15.04	15.50	15.33	637.70	661.85	651
Dover	41.0	39.7	39.5	13.49	13.94	13.78	553.09	553.42	544
Wilmington-Newark		44.9	44.3	17.99	18.52	18.42	789.76	831.55	816
istrict of Columbia: Washington PMSA	40.2	39.6	40.0	14.24	14,51	14.77	572.45	574.60	590
•	1			!		1			
lorida		42.1	42.2	11.13	11.50	11.49	470.80	484.15	484
eorgia		41.8	41.5	11.85 12.82	12.18 12.89	12.14 12.79	503.63 547.41	509.12 525.91	503 525
Atlanta		40.8 49.0	41.1 48.8	14.46	15.23	15.04	725.89	746.27	733
	i							100.00	
awali	38.9 40.0	38.2 38.7	39.6 40.8	13.40 13.15	12.65 12.77	12.75 12.78	521.26 526.00	483.23 494.20	504 521
laho	1	39.4	38.8	12.12	12.99	13.22	495.71	511.81	512
linois	ł	42.1	42.0	13.50	13.83	13.85	571.05	582.24	581
Bloomington-Normal		39.5	39.4	17.40			709.92	698.76	696
					17.69	17.68			
Champaign-Urbana		41.0	40.7	11.12	11.50	11.60	462.59	471.50	472
Chicago		41.8	41.9	13.40	13.59	13.60	564,14	568.06	569
Davenport-Moline-Rock Island		43.2	43.1	15.52	15.61	15.65	667.36	674.35	674
Decatur	42.7	41.4	41.5	16.69	16.81	16.79	712.66	695.93	696
Kankakee		42.0	42.6	14.94	14.71	14.91	617.02	617.82	635
Nainanee									
Peoria-Pekin	42.4	41.9	41.5	16.50	16.50	16.39	699.60	691.35	680
		41.9 43.7	41.5 43.7	16.50 15.16	16.50 16.23	15.77	699.60 648.85	691.35 709.25	680 689

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

	Aver	age weekly h	ours	Avera	age hourly ea	rnings	Avera	ige weekly ea	rnings
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novemb 1998
ndiene	44.0	42.4	42.4	\$15.03	\$14.71	\$14.86	\$661.32	\$623.70	****
Bloomington		39.7	41.1	11.72	12.00	12.07	481.69	476.40	\$630.0 496.0
Elkhart-Goshen		39.4	39.7			12.66			
				12.21	12.64		485.96	498.02	502.6
Evansville-Henderson		43.6	43.6	15.18	13.93	14.17	663.37	607.35	617.8
Fort Wayne		41.5	41.7	14.78	14.44	14.56	619.28	599.26	607.
Gary		41.0	41.3	18.74	18.49	18.43	803.95	758.09	761.
Indianapolis		43.3	43.3	15.68	15.11	15.17	691.49	654.26	656.
Kokomo		51.9	51.5	21.16	20.69	20.79	1,072.81	1,073.81	1,070.
Lafayette		43.1	43.1	15.88	15.75	15.70	690.78	678.83	676.
Muncie	46.4	45.0	44.9	14.89	14.47	14.38	690.90	651.15	645.
South Bend	42.3	41.5	41.4	12.38	12.64	12.58	523.67	524.56	520.
Terre Haute	44.8	46.8	46.7	14.86	14.26	14.20	665.73	667.37	663.
owa	43.8	41.6	42.1	13.74	13,79	13.95	601.81	573,66	587.
Cedar Rapids		40.2	41.9	16.95	17.21	17.72	750.89	691.84	742.
Des Moines		41.8	43.5	13.54	14,14	13.86	610.65	591.05	602
Dubuque		40.1	40.5	15.33	15.52	15.37	651.53	622.35	622
Sioux City		39.6	40.1	11.46	11.92	12.19	452.67	472.03	488.
(ansas	43.2	41.9	41.6	13.70	14.02	14,12	591.84	587.44	587.
Topeka		43.3	43.3	15.36	17.07	16.81	643.58	739.13	727.
Wichita		43.2	43.0	16.12	16.06	16.23	718.95	693.79	697
		1							l
Centucky		41.2 41.8	41.4 41.9	13.39	13.75	13.72 13.96	563.72 611.94	566.50 583.53	568. 584.
Lexington Louisville		41.8 42.0	42.2	14.10 15.00	13.96 15.17	15.03	630.00	637.14	634
	i	j							l
		45.0	44.4	14.39	14.62	14.57	638.92	657.90	646.
Baton Rouge	43.8	43.5	43.5	16.46	17.05	17.08	720.95	741.68	742.
New Orleans		44.0	43.9	14.43	14.39	14.46	632.03	633.16	634.
Shreveport-Bossier City	42.7	41.9	41.6	13.83	13.76	14.83	590.54	576.54	616.
keine	40.6	40.4	41.1	13.20	13.66	13.20	535.92	551.86	542.
Lewiston-Auburn		40.9	42.6	11.62	12.25	11.88	497.34	501.03	506.
Portland		42.7	44.4	11.27	11.67	11.23	427.13	498.31	498.
Maryland	42.6	41.8	41.6	14.17	14.38	14.32	603.64	601.08	59 5.
Baltimore PMSA		41.5	41.6	14.64	15.17	15.18	628.06	629.56	631.
Massachusetts	42.3	41.7	42.5	13.60	13.82	13.84	575.28	576.29	588.
Boston		41.1	41.6	14.73	15.07	15.06	612,77	619.38	626.
Springfield		41.7	43.1	13.25	13.61	13.68	571.08	567.54	589.
Worcester		41.7	42.8	13.75	14.10	14.09	591.25	587.97	603.
Worcester	43.0	41.7	42.0	1 13.75	14.10	14.09	391.25	307.97	🐃
lichigen		43.4	43.7	17.56	18.14	18.71	776.15	787.28	817.
Ann Arbor		44.5	45.7	18.64	19.54	19.47	857.44	869.53	889.
Detroit	45.5	44.5	44.5	19.09	20.25	20.21	868.59	901.13	899.
Flint	45.4	44.3	46.0	24.03	25.93	25.87	1,090.96	1,148.70	1,190.
Grand Rapids-Muskegon-Holland	42.7	42.1	41.7	14,47	14.91	14.91	617.87	627.71	621
Jackson		40.3	40.9	13.08	12.59	12.78	558.52	507.38	522.
Kalamazoo-Battle Creek		44.0	43.2	15.53	15.88	15.70	714.38	698.72	678
Lansing East Lansing	42.3	43.0	43.5	19.20	19.59	19.56	812.16	842.37	850
Saginaw-Bay City-Midland		46.2	48.0	21.28	21.62	22.14	978.88	998.84	1,062.
linnesota	42.0	41.9	41.7	13.82	13.87	13.81	580.44	581.15	575.
Duluth-Superior		40.5	40.7	12.52	12.53	12.73	524.59	507.47	518
Minneapolis-St. Paul		42.5	42.3	14.67	15.46	15.42	614.67	657.05	652
St. Cloud		44.6	44.4	12.93	13.35	13.44	562.46	595.41	596.
fississippi	42.1	41,9	41.7	10.49	10.75	10.82	441.63	450.43	451.
Jackson		41.2	41.3	12.18	12.00	12.19	515.21	494.40	503
Aissouri	42.	41.0	414	12.10	10.04	10.46	EFE OO	EE4 04	
Kansas City		41.6 43.3	41.4 43.8	13.19 14.39	13.34 14.46	13.46 14.38	555.30 644.67	554,94 626,12	557 629
St Louis		42.1	42.0	15.56	15.84	15.90	681,53	666.86	667
Springfield		41.3	41.1	10.98	11.44	11.38	441.40	472.47	467
Aontana	40.7	39.6	39.5	13.33	13.84	13.92	542.53	548,06	EAO
					1))		549
lebraska		42.8	41.7	12.05	12.27	13.50	510.92	525.16	562
Lincoln		44.9	43.6	13.72	14.30	14.13	636.61	642.07	616
Omaha	42.6	44.7	45.2	13.41	14.13	13.62	571.27	631.61	615
1 d.	45.1	41.9	43.5	13.89	13.99	14.37	626.44	586.18	625
levada									

B-18. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas — Continued

	Aver	age weekly h	ours	Avera	age hourly ea	rnings	Avera	ge weekly ea	rnings
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	Novemb 1998
			1	}		[
lew Hampshire	42.3	41.2	41.6	\$12.57	\$12.75	\$12.91	\$531.71	\$525.30	\$537.0
Manchester		41.1	42.6	13.59	13.34	13.41	551.75	548.27	571.2
Nashua		41.5	42.3	15.05	14.73	15.14	623.07	611.30	640.4
		38.8	39.5	11.76	12.29	12.26	490.39	476.85	484.2
Portsmouth-Rochester	- [l			ł			
lew Jersey	42.6	42.2	42.3	14.36	14.60	14.63	611.74	616.12	618.8
ew Mexico		38.3	38.6	12.46	12.03	12.49	488.43	460.75	482.
Albuquerque	39.1	38.0	38.9	14.73	13.43	14.09	575.94	510.34	548.1
lew York		41.2	41.5	13.44	13.62	13.70	561.79	561.14	568.
Albany-Schenectady-Troy		43.1	43.1	14.79	14.50	14.54	633.01	624.95	626.6
Binghamton	40.0	40.8	41.2	10.57	10.81	10.81	422.80	441.05	445.3
Buffalo-Niagara Falls		43.0	42.7	17.28	16.98	17.07	762.05	730.14	728.8
Dutchess County		40.4	40.6	12.38	12.14	11.97	484.06	490.46	485.9
Elmira		42.3	41.9	12.45	12.81	12.68	525.39	541.86	531.2
								509.44	
Nassau-Suffolk		40.4	41.1	12.34	12.61	12.52	507.17		514.5
New York PMSA		38.9	39.2	12.21	12.26	12.41	481.07	476.91	486.4
New York City		38.7	38.9	11.95	11.99	12.16	468.44	464.01	473.
Newburgh		39.5	40.4	11.31	11.34	11.14	455.79	447.93	450.
Desharter		43.4	43.4	14.87	15.22	15.33	649.82	660.55	665.
Rochester									
Rockland County		42.6	43.2	16.27	16.00	15.82	693.10	681.60	683.
Syracuse	43.4	42.2	42.2	14.41	14.51	14.38	625.39	612.32	606.
Utica-Rome	40.8	39.1	40.0	11.68	12.00	12,19	476.54	469.20	487.
Westchester County		40.3	40.2	12.78	13.04	13.05	509.92	525.51	524.
orth Carolina	41.8	41.1	41.3	11,55	11.90	11,95	482.79	489.09	493.
Asheville		41.3	41.7	11.38	11.49	11.41	491.62	474.54	475
Charlotte-Gastonia-Rock Hill		41.2	41.6	12.46	12.88	12.95	515.84	530.66	538
Greensboro-Winston-SalemHigh Point		40.5 42.7	40.5 42.7	11.91 12.70	12.19 12.90	12.26 12.94	493.07 532.13	493.70 550.83	496. 552.
orth Dakota		40.1	38.0	11.42	11.55	11.45	449.95	463.16	435.
Fargo-Moorhead	40.2	39.5	38.7	11.40	11.15	11.14	458.28	440.43	431.
hio		43.2	43.4	15.67	15.98	16.02	694.18	690.34	695.
Akron	44.0	42.2	43.3	12.83	13.19	13.25	564.52	556.62	573.
Canton-Massillon	43.4	40.9	40.9	13.84	14.04	13.95	600.66	574.24	570.
Cincinnati		43.6	44.0	14.91	15.44	15.47	663.50	673.18	680.
Cleveland-Lorain-Elyria		43.0	43.2	15.24	15.55	15.57	681.23	668.65	672
				14.62	15.20	15.00	630.12	639.92	636.
Columbus		42.1	42.4						
Dayton-Springfield		43.5	44.0	16.87	17.35	17.54	759.15	754.73	771.
Hamilton-Middletown	46.7	45.4	46.2	17.13	17.37	17.54	799.97	788.60	810.
Lima		43.3	43.2	16.35	16.43	16.56	730.85	711.42	715.
		43.1	43.1	16.52	17.15	16.94	735.14	739.17	730.
Mansfield									
Steubenville-Weirton		40.5	40.2	16.61	18.09	17.82	695.96	732.65	716.
Toledo	44.5	43.5	43.2	16.91	17.40	17.40	752.50	756.90	751.
Youngstown-Warren		41.4	43.0	17.83	17.84	18.12	780.95	738.58	779.
klahoma	43.4	41.4	41.3	12.61	12.57	12.76	547.27	520.40	526.
Oklahoma City		43.0	41.8	14.03	13.69	14,14	629,95	588.67	591.
Tulsa		41.5	42.3	13.02	13.38	13.33	572.88	555.27	563.
regon	41.2	40.8	41.6	13.64	14.20	14.47	561.97	579.36	601.
Eugene-Springfield		41.4	41.4	12.84	13.37	13.59	513.60	553.52	562.
Medford-Ashland		39.3	40.2	12.54	13.08	13.12	509.12	514.04	527.
Portland-Vancouver	41.9 40.0	41.2 40.6	41.9 41.1	13.84 11.68	14.55 12.07	14.74 12.42	579.90 467.20	599.46 490.04	617. 510.
			ł	ì		1	1		1
enneyivania		41.9 42.4	42.3 43.0	13.93 14.25	14.08 14.64	14.14 14.81	594.81 617.03	589.95 620.74	598 636
Allentown-Bethlem-Easton									
Altoona		40.9	40.3	11.85	12.26	12.46	485.85	501.43	502.
Erie		44.0	43.9	14.10	13.98	14.05	633.09	615.12	616.
Harrisburg-Lebanon-Carlisle		39.8	40.0	13.27	14.01	14.07	537.44	557.60	562.
Johnstown		39.4	39.9	10.46	10.54	10.60	407.94	415.28	422
Lancaster		40.6	41.0	13.03	12.99	13.01	543.35	527.39	533
Philadelphia PMSA		41.3	41.8	15.10	15.48	15.52	635.71	639.32	648
Pittsburgh		42.5	43.0	14.86	15.00	15.02	646.41	637.50	645
Reading		42.1	42.5	15.30	15.11	15.14	648.72	636.13	643
ScrantonWilkes-BarreHazleton		40.8	41.2	12.64	12.85	12.84	528.35	524.28	529
Sharon		43.7	44.3	15,01	15.27	15.38	657.44	667.30	681.
State College	44.1	41.3	42.9	12.35	12.09	12.48	544.64	499.32	535
Clare College									
Williamsport	42.3	40.6	41.3	10.94	11.52	11.57	462.76	467.71	477.

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

	Aver	age weekly h	ours	Avera	age hourly ea	rnings	Avera	ge weekly ea	rnings
State and area	November 1997	October 1998	November 1998 ^p	November 1997	October 1998	November 1998P	November 1997	October 1998	November 1998 ^p
Rhode Island	41.8	39.8	40.4	\$11.55	\$11.67	\$11.73	\$482.79	\$464.47	\$473.89
Providence-Fall River-Warwick	42.2	40.5	41.0	11.67	11.93	12.11	492.47	483.17	496.51
South Carolina	42.7	42.7	42.7	10.41	10.55	10.57	444.51	450.49	451.34
South Dakota	42.1	42.2	42.5	10.00	10.47	10.39	421.00	441.83	441.58
Rapid City	42.3	43.1	40.2	9.67	10.33	10.56	409.04	445.22	424.51
Sioux Falls	42.7	45.1	43.6	10.45	10.85	10.84	446.22	489.34	472.62
Tennessee		40.7	41.0	11.94	12.05	12.06	499.09	490.44	494.46
Chattanooga	41.9 40.0	41.5 38.8	42.3 39.1	10.80 12.66	11.26 13.00	11.30	452.52	467.29	477.99
Johnson City-Kingsport-Bristol		41.2	42.0	11.84	11.95	12.92 11.95	506.40 493.73	504.40 492.34	505.17 501.90
Knoxville Memphis		40.0	40.5	12.44	13.07	12.88	522.48	522.80	521.64
Nashville		40.6	40.7	13.08	12.87	13.06	546.74	522.52	531.54
Texas	44.1	43.6	43.7	12.09	12.19	12.16	533.17	531.48	531.39
Dallas		43.0	42.9	12.18	12.36	12.38	531.05	531.48	531.10
Ft. Worth-Arlington		44.0	44.0	12.91	12.99	12.99	569.33	571.56	571.56
Houston		45.0	44.7	14.32	14.46	14.58	670.18	650.70	651.73
San Antonio	42.4	41.3	41.3	9.86	9.76	9.78	418.06	403.09	403.91
Utah	41.5	40.4	40.9	12.92	13.18	13.20	536.18	532.47	539.88
Salt Lake City-Ogden	40.9	40.0	40.8	12.67	13.03	13.00	518.20	521.20	530.40
Vermont	40.8	40.2	40.0	12.78	13.04	13.30	521.42	524.21	532.00
Burlington	45.4	43.5	43.7	13.48	13,90	14.85	611.99	604.65	648.95
Virginia		42.4	42.8	12.73	12.84	13.03	542.30	544.42	557.60
Bristol		42.8	42.4	10.66	10.86	10.81	458.38	464.81	458.34
Charlottesville	42.5	43.5	46.5	10.29	10.66	10.70	437.33	463.71	497.5
Danville		41.6	41.3	12.39	12.49	12.84	525.34	519.58	530.29
Lynchburg		44.1	51.3	12.74	12.80	12.83	568.20	564.48	658.18
Norfolk-Virginia Beach-Newport News		40.6	40.8	15.07	14.64	14.78	669.11	594.38	603.02
Northern Virginia		41.3	41.9	13.00	13.25	13.49	538.20	547.23	565.23
Richmond-Petersburg		42.1 40.9	42.3 42.7	15.97 14.77	16.22 13.89	16.08 14.48	685.11 618.86	682.86 568.10	680.18 618.30
Washington	41.5	41.4	41.3	15.40	15.93	16.03	639.10	659.50	662.04
West Virginia	42.4	41.7	42.3	13.40	13.83	14.15	568.16	576.71	598.55
Charleston		49.2	48.2	14.87	16 26	16.51	707.81	799.99	795.78
Huntington-Ashland		44.3	44.9	14.95	15.50	15.95	653.32	686.65	716.16
Parkersburg-Marietta		42.0	42.6	16.92	17.34	17.50	729.25	728.28	745.50
Wheeling		40.9	41.3	16.68	17.28	17.32	693.89	706.75	715.32
Wisconsin	43.0	42.0	42.6	13.93	14.14	14.25	598.99	593.88	607.05
Appleton-Oshkosh-Neenah		44.0	44.5	15.32	15.41	15.58	695.53	678.04	693.31
Eau Claire	41.6	41.7	42.8	12.58	12.76	12.76	523.33	532.09	546,13
Green Bay		42.7	42.6	15.04	15.47	15.87	654.24	660.57	676.06
Janesville-Beloit		44.0	46.0	17.52	19.10	18.55	828.70	840.40	853.30
Kenosha		38.6	39.2	15.61	16.04	16.68	655.62	619.14	653.86
La Crosse		41.4	43.3	11.72	12.33	12.45	514.51	510.46	539.09
Madison		40.4	41.3	12.54	13.33	13.11	531.70	538.53	541.44
Milwaukee-Waukesha		42.0	42.3	15.03	15.09	15.34	638.78	633.78	648.88
Racine	45.1	41.4	42.8	14.52	14.67	14.40	654.85	607.34	616.32
Sheboygan Wausau		44.1 41.8	44.5 42.5	13.11 13.31	14.10 13.73	14.01 13.69	558.49 586.97	621.81 573.91	623.45 581.83
Wyoming		40.7	41.2	14.72	15.34	15.08	597.63	624.34	621.30
Puerto Rico		41.7	42.0	8.33	8.75	8.78	335.70	364.88	368.76
			}	1					
Virgin Islands	45.3	39.7	42.2	18.26	18.80	18.79	827.18	746.36	792.94

 $^{{\}sf P}$ = preliminary. NOTE: Area definitions are published annually in the May issue of this publication. All

State and area data have been adjusted to March 1997 benchmarks.

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

(Numbers in thousands)

0	19	97						1998					
Census region and division	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
NORTHEAST											<u>.</u>	ļ	
	ŀ						ļ	,				1	
Civilian labor force			26,077.0					26,044.0	26,044.0			26,056.5	26,085.0
Employed		24,758.5	24,799.0	24,806.3	24,797.5	24,826.0		24,848.1	24,851.0			24,854.1	24,898.2
Unemployed		1,320.0	1,278.0	1,291.1	1,308.4	1,219.2	1,229.7	1,196.0	1,192.9	1,167.7	1,203.5	1,202.4	1,186.8
Unemployment rate	5.2	5.1	4.9	4.9	5.0	4.7	4.7	4.6	4.6	4.5	4.6	4.6	4.5
New England													1
Civilian labor force	7,137.9	7,132.8	7,130.7	7,123.0	7,139.0	7,103.1	7,125.0	7,106.9	7,103.2	7,101.8	7,119.4	7,142.5	7,153.1
Employed		6,840.1	6,861.1	6,864.6	6,862.8	6,860.0	6,860.7	6,854.4	6,863.4	6,868.9	6,865.7	6,882.6	6,908.4
Unemployed		292.7	269.7	258.4	276.2	243.1	264.3	252.4	239.8	232.9	253.7	259.9	244.7
Unemployment rate	4.2	4.1	3.8	3.6	3.9	3.4	3.7	3.6	3.4	3.3	3.6	3.6	3.4
Middle Atlantic							}		!	}			
Civilian labor force	18.976.3	18,945.7	18,946.3	18,974.5	18,966.9	18,942.1	18,937.2	18,937.2	18.940.8	18.926.4	18,937.8	18.914.0	18.931.9
Employed		17,918.4	17,937.9	17,941.7	17,934,7		17,971.7	17,993.6	17,987.6	17,991.6	17,987.9	17,971.5	17,989.8
Unemployed		1.027.3	1,008.3	1,032,7	1.032.2	976.1	965.5	943.5	953.1	934.8	949.9	942.5	942.1
Unemployment rate	5.5	5.4	5.3	5.4	5.4	5.2	5.1	5.0	5.0	4.9	5.0		5.0
SOUTH													
Civilian labor force	47 600 5	47 604 8	47.016.0	47.010.0	47 070 6	47.025.2	47.077.0	47.005.4	40.070.4	40 400 5	40.047.0	40 000 6	40.066.6
Civilian labor force		47,694.8 45,523.3	47,816.2 45.689.9	47,818.3 45,752.0	45,761.0	47,935.3 45,865.9	47,977.2 45,924.5	47,985.4 45,916.9	48,070.4 45,983.1	48,129.5 46,001.2	48,247.0 46,139.8		48,266.6
Employed Unemployed	2,212.8	2,171.5	2,126.3	2,066.4	2,118.6	2,069.5	2,052.7	2,068.5	2,087.3		'	ł ·	46,213.4 2,053.2
Unemployment rate	4.6	4.6	4.4	4.3	4.4	4.3	4.3	4.3	4.3	2,128.4 4.4	2,107.2 4.4	2,107.9	4.3
Offemployment rate	4.0	4.0	7.4	4.5	7.4	4.5	4.5	4.5	4.5	4.4	7.7	1 7.7	4.3
South Atlantic													
Civilian labor force	24,635.4	24,677.1	24,738.2	24,765.7	24,763.1	24,800.5		24,783.2	24,836.0	24,863.9	24,918.9	24,978.6	24,988.8
Employed	23,575.5	23,630.4	23,695.5	23,724.7	23,720.6	23,786.9	23,785.3	23,784.1	23,831.0	23,842.1	23,939.4	23,970.2	23,993.1
Unemployed	1,060.0	1,046.7	1,042.6	1,041.0	1,042.5	1,013.6	1,003.4	999.0	1,005.1	1,021.8	979.5	1,008.4	995.7
Unemployment rate	4.3	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.0	4.1	3.9	4.0	4.0
East South Central	}												
Civilian labor force	8,135.3	8,145.8	8,144.8	8,136.3	8,167.0	8,148.8	8,146.5	8,127.4	8,135.7	8,150.9	8,162.3	8,178.4	8,162.9
Employed		7,748.2	7,775.6	7,785.3	7,784.1	7,791.0	7,791.4	7,794.2	7,806.2	7,805.5	7,809.0	7,823.9	7,818.3
Unemployed	409.7	397.5	369.1	351.0	382.8	357.7	355.0	333.2	329.6	345.4	353.3	354.6	344.6
Unemployment rate	5.0	4.9	4.5	4.3	4.7	4.4	4.4	4.1	4.1	4.2	4.3	4.3	4.2
West South Central													
Civilian labor force	14,829.8	14,871.9	14,933.3	14,916.3	14,949.5	14,986.1	15,041.9	15,074.9	15,098.6	15,114.7	15,165.8	15,173.5	15,114.9
Employed		14,144.7	14,218.8	14,241.9	14,256.2	14,288.0	14,347.7	14,338.6	14,345.9	14,353.5	14,391.4	14,428.6	14,402.0
Unemployed		727.2	714.5	674.4	693.3	698.1	694.2	736.3	752.7	761.2	774.4	744.9	712.9
Unemployment rate	5.0	4.9	4.8	4.5	4.6	4.7	4.6	4.9	5.0	5.0	5.1	4.9	4.7

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

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

(Numbers in thousands)

	19	97						1998					
Census region and division	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.P
MIDWEST													
Civilian labor force	33,170.2 31,877.5 1,292.6 3.9	33,246.3 31,959.7 1,286.6 3.9	33,363.0 32,117.0 1,246.0 3.7	33,376.7 32,147.6 1,229.1 3.7	33,383.1 32,126.5 1,256.6 3.8	33,299.7 32,167.9 1,131.8 3.4	33,302.6 32,129.1 1,173.4 3.5	33,302.1 32,090.8 1,211.3 3.6	33,332.3 32,077.3 1,255.0 3.8	33,300.0 32,122.4 1,177.6 3.5	33,372.4 32,163.9 1,208.5 3.6	33,419.8 32,222.4 1,197.4 3.6	33,427.0 32,225.7 1,201.4 3.6
East North Central													
Civilian labor force Employed Unemployed Unemployment rate	22,024.9 962.9	23,027.2 22,068.0 959.3 4.2	23,113.2 22,182.4 930.8 4.0	23,114.8 22,197.5 917.3 4.0		23,025.2 22,214.2 811.1 3.5		23,031.4 22,135.9 895.4 3.9	23,060.8 22,120.1 940.7 4.1		23,082.2 22,177.7 904.5 3.9	23,144.1 22,250.6 893.5 3.9	23,146.1 22,252.0 894.2 3.9
West North Central													
Civilian labor force Employed Unemployed Unemployment rate	9,852.6	10,219.1 9,891.7 327.4 3.2	10,249.8 9,934.6 315.2 3.1	10,262.0 9,950.1 311.8 3.0	10,249.1 9,916.8 332.3 3.2	10,274.4 9,953.7 320.7 3.1	10,288.1 9,958.4 329.8 3.2	10,270.8 9,954.9 315.9 3.1	10,271.5 9,957.1 314.4 3.1	10,271.7 9,966.0 305.6 3.0	10,290.2 9,986.2 304.0 3.0	10,275.7 9,971.7 303.9 3.0	10,280.9 9,973.7 307.2 3.0
WEST													
Civilian labor force Employed Unemployed Unemployment rate		30,425.5 28,819.0 1,606.5 5.3	30,478.9 28,893.5 1,585.4 5.2	30,513.8 28,944.5 1,569.3 5.1	30,617.8 29,004.2 1,613.7 5.3	30,604.4 29,000.4 1,604.0 5.2	30,693.6 29,091.3 1,602.3 5.2	30,674.8 29,072.9 1,601.9 5.2	30,772.6 29,192.7 1,579.9 5.1	30,786.6 29,172.0 1,614.7 5.2	30,935.6 29,261.3 1,674.3 5.4	30,953.1 29,315.2 1,637.9 5.3	30,945.6 29,353.1 1,592.6 5.1
Mountain													
Civilian labor force Employed Unemployed Unemployed Unemployment rate	8,550.2 8,201.2 349.0 4.1	8,599.7 8,250.1 349.7 4.1	8,633.8 8,298.2 335.6 3.9	8,672.2 8,323.7 348.5 4.0	8,685.1 8,317.0 368.1 4.2	8,711.3 8,336.5 374.8 4.3	8,714.1 8,351.7 362.3 4.2	8,717.9 8,350.0 367.9 4.2	8,747.2 8,386.7 360.5 4.1	8,770.9 8,404.8 366.2 4.2	8,809.9 8,437.5 372.5 4.2	8,830.8 8,468.9 361.9 4.1	8,834.5 8,474.3 360.2 4.1
Pacific								,					!
Civilian labor force		21,825.8 20,569.0 1,256.8 5.8	21,845.1 20,595.3 1,249.8 5.7	21,841.6 20,620.8 1,220.8 5.6	21,932.8 20,687.2 1,245.6 5.7	21,893.1 20,663.9 1,229.2 5.6	21,979.6 20,739.6 1,240.0 5.6	21,956.9 20,722.9 1,234.0 5.6	22,025.4 20,806.0 1,219.4 5.5		22,125.7 20,823.8 1,301.9 5.9	22,122.3 20,846.3 1,276.0 5.8	22,111.2 20,878.8 1,232.4 5.6

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.

 $^{^{\}rm p}$ = preliminary. $^{\rm 1}$ These estimates are obtained from summing offical 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,

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

(Numbers in thousands)

	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
Alabama													
Civilian labor force	2,164.6 2,061.9 102.7 4.7	2,154.1 2,055.0 99.1 4.6	2,146.3 2,057.3 89.1 4.1	2,141.6 2,059.8 81.8 3.8	2,149.9 2,060.0 89.9 4.2	2,137.4 2,058.8 78.7 3.7	2,144.7 2,057.9 86.7 4.0	2,142.5 2,060.7 81.8 3.8	2,146.1 2,067.8 78.3 3.7	2,145.6 2,065.5 80.1 3.7	2,152.1 2,061.6 90.5 4.2	2,158.6 2,064.4 94.2 4.4	2,153.2 2,062.1 91.0 4.2
Alaska													
Civilian labor force	317.4 294.4 23.1 7.3	318.5 295.9 22.6 7.1	317.6 297.8 19.8 6.2	318.0 297.9 20.1 6.3	317.4 298.5 19.0 6.0	316.3 298.3 18.1 5.7	318.5 299.6 18.9 5.9	319.6 299.3 20.3 6.4	317.8 298.0 19.8 6.2	318.9 300.1 18.9 5.9	318.9 300.1 18.8 5.9	321.0 301.5 19.5 6.1	317.7 301.1 16.6 5.2
Arizona													
Civilian labor force	2,211.5 2,116.8 94.7 4.3	2,237.7 2,144.7 93.0 4.2	2,243.0 2,159.2 83.8 3.7	2,252.4 2,163.0 89.3 4.0	2,263.3 2,164.4 99.0 4.4	2,269.5 2,169.8 99.6 4.4	2,262.2 2,169.8 92.5 4.1	2,254.4 2,164.1 90.3 4.0	2,268.3 2,181.9 86.4 3.8	2,284.6 2,189.9 94.8 4.1	2,297.7 2,201.7 96.1 4.2	2,282.4 2,201.4 80.9 3.5	2,293.0 2,202.0 91.0 4.0
Arkansas													
Civilian labor force Employed Unemployed Unemployment rate	1,229.7 1,167.9 61.7 5.0	1,240.6 1,178.5 62.1 5.0	1,245.8 1,180.2 65.6 5.3	1,243.9 1,178.5 65.4 5.3	1,248.9 1,178.8 70.1 5.6	1,249.5 1,184.4 65.1 5.2	1,247.1 1,182.3 64.8 5.2	1,243.1 1,182.9 60.2 4.8	1,241.1 1,183.1 58.0 4.7	1,240.7 1,184.3 56.3 4.5	1,241.8 1,179.7 62.2 5.0	1,248.4 1,180.6 67.8 5.4	1,247.5 1,181.7 65.7 5.3
California									j				
Civilian labor force Employed Unemployed Unemployment rate	16,086.1 15,112.5 973.6 6.1	16,122.8 15,151.8 971.0 6.0	16,114.0 15,145.7 968.3 6.0	16,147.0 15,189.0 958.0 5.9	16,218.2 15,238.2 980.0 6.0	16,215.1 15,251.1 964.0 5.9	16,247.1 15,286.6 960.4 5.9	16,262.2 15,319.7 942.5 5.8	16,321.6 15,395.2 926.4 5.7	16,310.3 15,358.1 952.2 5.8	16,351.0 15,363.9 987.1 6.0	16,310.5 15,341.6 968.9 5.9	16,311.5 15,378.5 933.1 5.7
Colorado					1								
Civilian labor force	2,196.4 2,129.0 67.4 3.1	2,199.7 2,132.8 66.9 3.0	2,216.2 2,153.1 63.1 2.8	2,232.9 2,165.7 67.2 3.0	2,231.4 2,161.5 69.9 3.1	2,240.5 2,165.1 75.3 3.4	2,245.3 2,173.9 71.4 3.2	2,246.9 2,170.4 76.5 3.4	2,250.8 2,175.6 75.1 3.3	2,252.6 2,178.0 74.6 3.3	2,263.4 2,182.8 80.6 3.6	2,279.3 2,194.9 84.4 3.7	2,267.4 2,190.0 77.4 3.4
Connecticut													
Civilian labor force Employed Unemployed Unemployment rate	1,726.6 1,646.6 80.0 4.6	1,728.2 1,650.7 77.5 4.5	1,720.0 1,654.7 65.3 3.8	1,716.8 1,651.8 65.0 3.8	1,722.4 1,653.0 69.4 4.0	1,714.9 1,647.7 67.1 3.9	1,721.1 1,655.8 65.3 3.8	1,718.0 1,652.7 65.3 3.8	1,709.3 1,650.3 59.0 3.5	1,715.8 1,656.0 59.8 3.5	1,722.3 1,655.5 66.9 3.9	1,720.7 1,655.7 65.0 3.8	1,725.6 1,660.2 65.4 3.8
Delaware													
Civilian labor force	383.9 371.2 12.7 3.3	387.0 374.0 13.0 3.4	387.9 374.6 13.3 3.4	388.7 375.0 13.6 3.5	393.2 379.6 13.6 3.5	393.2 378.3 14.9 3.8	393.9 377.7 16.2 4.1	394.4 378.5 15.9 4.0	395.5 379.3 16.1 4.1	393.2 379.1 14.1 3.6	394.0 380.6 13.4 3.4	397.6 383.5 14.1 3.6	397.2 382.9 14.3 3.6
District of Columbia													
Civilian labor force Employed Unemployed Unemployment rate	255.6 234.8 20.8 8.1	255.7 234.9 20.8 8.1	258.5 236.7 21.8 8.4	260.6 237.0 23.6 9.1	260.6 236.3 24.2 9.3	268.4 244.6 23.8 8.9	267.1 245.3 21.8 8.2	265.3 243.6 21.7 8.2	261.5 239.8 21.7 8.3	264.3 241.0 23.3 8.8	261.0 237.9 23.2 8.9	260.6 237.1 23.5 9.0	259.2 236.8 22.4 8.6
Florida													
Civilian labor force	7,221.2 6,884.3 337.0 4.7	7,253.6 6,916.0 337.7 4.7	7,265.1 6,927.2 337.8 4.7	7,258.3 6,922.1 336.1 4.6	7,269.7 6,923.3 346.4 4.8	7,302.6 6,959.8 342.9 4.7	7,299.6 6,970.9 328.7 4.5	7,316.7 6,985.5 331.1 4.5	7,327.3 7,010.9 316.3 4.3	7,340.2 7,020.5 319.6 4.4	7,345.5 7,038.4 307.1 4.2	7,359.0 7,036.7 322.3 4.4	7,347.8 7,029.8 318.0 4.3

STATE LABOR FORCE DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

<u> </u>	19	97					- , . , . , . ,	1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
Georgia													
Civilian labor force	3,928.5 3,764.4 164.2 4.2	3,918.0 3,759.1 158.9 4.1	3,928.7 3,771.7 157.0 4.0	3,950.0 3,786.3 163.6 4.1	3,931.6 3,772.5 159.1 4.0	3,960.4 3,802.7 157.7 4.0	3,951.7 3,791.2 160.5 4.1	3,963.4 3,801.1 162.2 4.1	3,967.1 3,807.0 160.1 4.0	3,972.7 3,811.0 161.7 4.1	4,003.6 3,848.2 155.4 3.9	4,001.6 3,846.1 155.4 3.9	4,021.0 3,859.9 161.1 4.0
Hawaii													
Civilian labor force	592.5 557.1 35.4 6.0	593.1 557.7 35.4 6.0	593.4 560.4 33.0 5.6	592.8 558.7 34.1 5.7	592.9 558.6 34.4 5.8	592.3 561.0 31.3 5.3	593.4 559.0 34.5 5.8	592.4 556.9 35.5 6.0	596.2 561.4 34.8 5.8	596.9 563.1 33.8 5.7	600.8 564.2 36.6 6.1	599.0 564.0 35.0 5.8	595.8 560.7 35.2 5.9
Idaho													
Civilian labor force	638.4 605.8 32.6 5.1	641.0 607.4 33.6 5.2	640.1 608.1 32.0 5.0	641.7 609.5 32.2 5.0	644.8 611.2 33.5 5.2	646.7 613.5 33.2 5.1	647.2 616.4 30.9 4.8	645.1 612.8 32.3 5.0	646.9 615.5 31.4 4.9	653.4 621.4 32.0 4.9	663.2 630.2 33.0 5.0	662.7 629.4 33.3 5.0	663.8 632.1 31.8 4.8
Illinois					ļ				İ				
Civilian labor force	6,156.7 5,861.9 294.8 4.8	6,162.1 5,867.0 295.1 4.8	6,190.5 5,887.8 302.7 4.9	6,186.3 5,902.8 283.6 4.6	6,189.1 5,909.1 280.0 4.5	6,142.1 5,886.2 255.9 4.2	6,131.4 5,889.7 241.8 3.9	6,156.8 5,878.7 278.1 4.5	6,177.7 5,902.1 275.7 4.5	6,137.4 5,877.9 259.5 4.2	6,163.5 5,885.0 278.6 4.5	6,186.4 5,916.1 270.2 4.4	6,166.6 5,890.0 276.6 4.5
Indiana													
Civilian labor force Employed Unemployed Unemployment rate	3,113.8 3,004.6 109.2 3.5	3,113.0 3,003.9 109.1 3.5	3,115.4 3,013.6 101.8 3.3	3,111.1 3,010.6 100.5 3.2	3,133.9 3,027.0 106.9 3.4	3,117.3 3,030.1 87.2 2.8	3,092.6 3,003.7 88.9 2.9	3,081.6 2,993.9 87.7 2.8	3,079.9 3,000.3 79.5 2.6	3,089.9 3,006.2 83.8 2.7	3,095.0 2,999.1 95.9 3.1	3,104.7 3,018.8 85.9 2.8	3,122.4 3,029.6 92.8 3.0
lowa													
Civilian labor force Employed Unemployed Unemployment rate	1,573.9 1,528.6 45.3 2.9	1,581.7 1,535.7 46.0 2.9	1,589.9 1,545.4 44.5 2.8	1,594.3 1,552.9 41.4 2.6	1,588.6 1,547.1 41.5 2.6	1,582.9 1,544.7 38.2 2.4	1,581.9 1,545.3 36.7 2.3	1,574.5 1,534.7 39.8 2.5	1,566.7 1,527.0 39.7 2.5	1,571.0 1,531.0 40.0 2.5	1,581.1 1,539.3 41.8 2.6	1,567.2 1,525.8 41.4 2.6	1,568.5 1,528.7 39.9 2.5
Kansas													
Civilian labor force	1,394.0 1,343.4 50.6 3.6	1,404.4 1,351.6 52.7 3.8	1,407.7 1,358.9 48.8 3.5	1,409.7 1,362.0 47.7 3.4	1,409.8 1,360.3 49.5 3.5	1,414.6 1,366.9 47.7 3.4	1,418.9 1,368.6 50.3 3.5	1,413.2 1,363.2 50.0 3.5	1,419.3 1,366.5 52.8 3.7	1,422.5 1,371.7 50.9 3.6	1,424.7 1,371.8 52.9 3.7	1,429.4 1,377.5 52.0 3.6	1,428.1 1,376.2 51.9 3.6
Kentucky													
Civilian labor force Employed Unemployed Unemployment rate	1,938.7 1,843.8 94.9 4.9	1,937.2 1,844.9 92.3 4.8	1,931.3 1,842.9 88.4 4.6	1,936.3 1,856.5 79.9 4.1	1,945.8 1,858.9 86.9 4.5	1,938.9 1,861.0 77.8 4.0	1,938.9 1,857.3 81.6 4.2	1,944.6 1,858.7 85.8 4.4	1,936.9 1,855.4 81.5 4.2	1,950.9 1,864.5 86.3 4.4	1,943.5 1,863.5 80.0 4.1	1,946.1 1,863.2 83.0 4.3	1,945.9 1,864.1 81.8 4.2
Louisiana							l						
Civilian labor force	2,037.2 1,917.8 119.4 5.9	2,043.8 1,926.5 117.3 5.7	2,067.6 1,962.3 105.3 5.1	2,038.0 1,949.8 88.2 4.3	2,033.2 1,937.4 95.8 4.7	2,054.4 1,940.7 113.8 5.5	2,080.2 1,970.5 109.7 5.3	2,083.7 1,975.0 108.7 5.2	2,073.4 1,950.8 122.6 5.9	2,083.5 1,956.6 126.9 6.1	2,073.4 1,946.2 127.2 6.1	2,069.9 1,966.7 103.3 5.0	2,059.1 1,949.6 109.5 5.3
Maine													
Civilian labor force	659.0 624.0 35.0 5.3	661.1 626.3 34.9 5.3	660.9 627.7 33.1 5.0	657.9 627.6 30.3 4.6	655.0 626.6 28.4 4.3	653.3 627.1 26.2 4.0	654.1 629.0 25.1 3.8	650.6 624.4 26.1 4.0	652.2 622.1 30.2 4.6	654.1 625.3 28.8 4.4	649.6 621.5 28.1 4.3	661.0 631.2 29.7 4.5	666.4 637.8 28.6 4.3

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

(Numbers in thousands)

	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
Maryland							I						
Civilian labor force	2,789.1 2,651.8 137.4 4.9	2,790.8 2,657.1 133.7 4.8	2,803.7 2,668.8 134.9 4.8	2,802.1 2,667.2 134.9 4.8	2,796.9 2,666.5 130.4 4.7	2,793.0 2,668.0 125.0 4.5	2,783.7 2,657.0 126.7 4.6	2,776.5 2,652.8 123.7 4.5	2,789.0 2,656.3 132.7 4.8	2,788.3 2,654.3 134.0 4.8	2,779.1 2,659.1 119.9 4.3	2,793.2 2,677.9 115.3 4.1	2,797.7 2,678.1 119.5 4.3
Massachusetts										i			
Civilian labor force	3,263.2 3,136.8 126.4 3.9	3,254.5 3,130.3 124.3 3.8	3,258.8 3,141.8 116.9 3.6	3,258.3 3,149.4 108.9 3.3	3,268.4 3,146.5 121.9 3.7	3,244.7 3,148.8 95.8 3.0	3,263.7 3,144.1 119.6 3.7	3,255.7 3,144.5 111.2 3.4	3,255.0 3,153.7 101.3 3.1	3,251.6 3,154.8 96.7 3.0	3,265.2 3,157.3 107.9 3.3	3,273.4 3,163.7 109.8 3.4	3,269.4 3,173.6 95.7 2.9
Michigan				1							!		
Civilian labor force	5,003.4 4,804.4 199.0 4.0	5,013.0 4,815.7 197.3 3.9	5,047.2 4,849.4 197.7 3.9	5,051.1 4,846.1 205.0 4.1	5,047.6 4,848.8 198.8 3.9	5,033.7 4,857.2 176.6 3.5	5,038.8 4,850.9 187.9 3.7	5,033.4 4,852.3 181.2 3.6	5,016.7 4,807.0 209.7 4.2	5,032.8 4,852.1 180.7 3.6	5,055.4 4,871.7 183.7 3.6	5,079.3 4,892.8 186.5 3.7	5,084.6 4,903.1 181.5 3.6
Minnesota													
Civilian labor force Employed Unemployed Unemployed Unemployment rate	2,660.8 2,581.2 79.6 3.0	2,670.8 2,593.5 77.3 2.9	2,672.5 2,600.0 72.6 2.7	2,675.4 2,606.3 69.1 2.6	2,684.1 2,607.0 77.1 2.9	2,693.6 2,624.2 69.4 2.6	2,698.3 2,623.8 74.5 2.8	2,699.5 2,630.0 69.5 2.6	2,698.3 2,636.5 61.9 2.3	2,693.5 2,636.5 57.0 2.1	2,698.6 2,634.4 64.3 2.4	2,691.1 2,632.0 59.1 2.2	2,702.3 2,636.7 65.6 2.4
Mississippi			ı										l
Civilian labor force	1,278.4 1,208.8 69.6 5.4	1,279.3 1,213.7 65.6 5.1	1,284.8 1,214.9 69.8 5.4	1,281.5 1,212.4 69.1 5.4	1,289.9 1,214.5 75.4 5.8	1,282.4 1,214.1 68.3 5.3	1,283.5 1,217.4 66.0 5.1	1,273.6 1,215.0 58.7 4.6	1,280.3 1,217.5 62.9 4.9	1,279.1 1,214.4 64.7 5.1	1,284.6 1,216.4 68.2 5.3	1,286.3 1,221.6 64.7 5.0	1,283.2 1,220.1 63.1 4.9
Missouri													ı
Civilian labor force	2,892.5 2,775.6 116.9 4.0	2,895.0 2,779.2 115.7 4.0	2,911.3 2,796.3 115.0 4.0	2,911.7 2,793.0 118.7 4.1	2,894.8 2,770.2 124.7 4.3	2,911.4 2,781.9 129.6 4.4	2,915.7 2,783.9 131.8 4.5	2,908.5 2,786.0 122.5 4.2	2,906.6 2,785.5 121.2 4.2	2,907.7 2,788.6 119.1 4.1	2,909.7 2,802.3 107.4 3.7	2,908.1 2,797.2 110.9 3.8	2,900.3 2,792.8 107.5 3.7
Montana									{				
Civilian labor force	459.0 434.2 24.8 5.4	460.6 435.9 24.7 5.4	462.2 437.1 25.1 5.4	462.5 438.2 24.3 5.3	461.8 436.8 25.0 5.4	462.6 437.2 25.4 5.5	464.4 438.5 25.8 5.6	464.4 439.5 24.9 5.4	464.9 441.1 23.7 5.1	463.8 440.6 23.2 5.0	464.3 440.2 24.0 5.2	466.1 440.6 25.6 5.5	468.7 442.2 26.5 5.7
Nebraska													
Civilian labor force Employed Unemployed Unemployment rate	919.0 899.9 19.1 2.1	923.6 905.9 17.7 1.9	924.2 907.6 16.6 1.8	926.2 908.4 17.9 1.9	926.8 906.3 20.5 2.2	928.7 910.5 18.2 2.0	927.2 908.8 18.4 2.0	927.2 911.6 15.6 1.7	932.3 912.3 20.0 2.1	931.6 910.3 21.3 2.3	930.0 910.7 19.3 2.1	931.0 909.9 21.1 2.3	932.8 910.0 22.8 2.4
Nevada		,											
Civilian labor force	897.1 861.7 35.4 3.9	900.6 864.8 35.8 4.0	905.7 866.7 39.0 4.3	911.4 869.7 41.8 4.6	909.6 867.2 42.4 4.7	914.5 870.4 44.1 4.8	915.8 872.9 42.9 4.7	920.6 880.4 40.2 4.4	924.9 885.7 39.3 4.2	926.6 887.4 39.2 4.2	931.4 896.1 35.3 3.8	942.7 907.4 35.3 3.7	948.0 912.9 35.1 3.7
New Hampshire													
Civilian labor force Employed Unemployed Unemployment rate	653.2 633.7 19.5 3.0	651.2 632.1 19.1 2.9	653.3 635.4 17.9 2.7	652.7 634.6 18.1 2.8	652.0 632.7 19.3 3.0	653.5 634.9 18.6 2.8	655.2 635.5 19.6 3.0	653.8 636.0 17.8 2.7	653.3 638.0 15.4 2.4	647.8 634.1 13.7 2.1	648.7 633.0 15.7 2.4	654.4 635.8 18.7 2.9	657.2 636.7 20.4 3.1

STATE LABOR FORCE DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

	19	97					-	1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
New Jersey													
Civilian labor force Employed Unemployed Unemployment rate	4,186.2 3,979.3 206.9 4.9	4,178.1 3,971.6 206.6 4.9	4,181.8 3,977.1 204.7 4.9	4,185.9 3,975.3 210.6 5.0	4,192.5 3,978.5 214.0 5.1	4,188.9 3,974.9 214.1 5.1	4,185.0 3,975.7 209.3 5.0	4,193.9 3,991.8 202.1 4.8	4,187.6 3,983.9 203.7 4.9	4,184.2 3,982.1 202.1 4.8	4,190.0 3,993.1 196.9 4.7	4,183.0 3,992.3 190.6 4.6	4,177.7 3,991.1 186.5 4.5
New Mexico													
Civilian labor force	832.8 781.3 51.5 6.2	835.5 782.2 53.3 6.4	836.1 784.9 51.2 6.1	837.7 785.1 52.5 6.3	841.7 787.7 54.0 6.4	842.7 790.7 52.1 6.2	842.7 788.1 54.5 6.5	846.9 790.2 56.7 6.7	847.6 793.8 53.8 6.3	846.7 792.2 54.5 6.4	847.5 792.3 55.2 6.5	849.1 794.1 55.0 6.5	846.7 793.0 53.7 6.3
New York							'						
Civilian labor force Employed Unemployed Unemployment rate	8,799.5 8,252.7 546.7 6.2	8,775.9 8,241.8 534.0 6.1	8,786.7 8,259.4 527.2 6.0	8,810.2 8,267.9 542.3 6.2	8,795.3 8,261.8 533.5 6.1	8,773.0 8,267.5 505.4 5.8	8,788.3 8,287.8 500.5 5.7	8,781.1 8,301.5 479.7 5.5	8,769.1 8,289.5 479.6 5.5	8,769.7 8,302.4 467.3 5.3	8,794.5 8,310.6 483.8 5.5	8,795.6 8,321.5 474.1 5.4	8,815.9 8,335.1 480.8 5.5
North Carolina													
Civilian labor force	3,843.3 3,704.0 139.4 3.6	3,828.0 3,688.2 139.8 3.7	3,842.0 3,703.7 138.4 3.6	3,847.8 3,706.5 141.3 3.7	3,846.9 3,698.0 148.8 3.9	3,823.1 3,683.1 140.1 3.7	3,807.1 3,680.8 126.3 3.3	3,776.3 3,661.0 115.3 3.1	3,792.0 3,668.1 123.9 3.3	3,803.9 3,668.1 135.9 3.6	3,819.9 3,685.9 133.9 3.5	3,827.2 3,689.4 137.9 3.6	3,822.3 3,695.7 126.6 3.3
North Dakota													
Civilian labor force	346.3 339.2 7.1 2.0	346.1 339.1 7.0 2.0	346.2 339.8 6.4 1.8	346.0 339.4 6.6 1.9	346.4 338.0 8.4 2.4	344.9 338.2 6.7 1.9	346.4 339.1 7.3 2.1	347.3 339.5 7.8 2.2	347.0 339.5 7.5 2.2	346.8 338.5 8.3 2.4	346.7 338.0 8.7 2.5	346.5 337.5 9.0 2.6	345.0 336.2 8.7 2.5
Ohio							i						
Civilian labor force	5,767.0 5,510.9 256.1 4.4	5,786.2 5,531.5 254.6 4.4	5,796.7 5,561.9 234.7 4.0	5,803.6 5,562.7 240.9 4.2	5,805.8 5,558.4 247.5 4.3	5,784.3 5,562.3 222.0 3.8	5,802.3 5,555.7 246.7 4.3	5,805.1 5,544.0 261.1 4.5	5,816.0 5,541.3 274.7 4.7	5,803.3 5,551.7 251.5 4.3	5,804.7 5,554.4 250.3 4.3	5,805.7 5,557.1 248.6 4.3	5,802.3 5,563.7 238.7 4.1
Oklahoma													
Civilian labor force	1,607.7 1,546.9 60.8 3.8	1,607.5 1,550.2 57.3 3.6	1,608.2 1,555.4 52.7 3.3	1,612.4 1,555.6 56.9 3.5	1,616.2 1,558.7 57.5 3.6	1,611.6 1,551.0 60.5 3.8	1,614.2 1,554.8 59.5 3.7	1,614.8 1,550.0 64.8 4.0	1,622.5 1,550.9 71.5 4.4	1,620.8 1,551.7 69.1 4.3	1,635.3 1,564.3 71.1 4.3	1,638.3 1,567.7 70.6 4.3	1,638.9 1,570.6 68.4 4.2
Oregon		:											
Civilian labor force Employed Unemployed Unemployment rate	1,767.3 1,670.8 96.5 5.5	1,775.4 1,681.2 94.2 5.3	1,807.9 1,713.8 94.1 5.2	1,774.4 1,690.5 83.9 4.7	1,778.5 1,691.3 87.2 4.9	1,769.2 1,679.3 89.9 5.1	1,775.0 1,682.7 92.2 5.2	1,755.1 1,660.2 94.9 5.4	1,765.8 1,669.9 95.9 5.4	1,766.9 1,665.9 101.0 5.7	1,789.1 1,687.4 101.7 5.7	1,804.8 1,701.6 103.2 5.7	1,804.4 1,702.7 101.7 5.6
Pennsylvania					ĺ								
Civilian labor force Employed Unemployed Unemployment rate	5,990.7 5,697.7 292.9 4.9	5,991.7 5,705.0 286.7 4.8	5,977.8 5,701.4 276.4 4.6	5,978.3 5,698.5 279.8 4.7	5,979.1 5,694.3 284.8 4.8	5,980.2 5,723.6 256.6 4.3	5,963.8 5,708.3 255.6 4.3	5,962.1 5,700.4 261.7 4.4	5,984.1 5,714.2 269.9 4.5	5,972.5 5,707.1 265.4 4.4	5,953.3 5,684.2 269.1 4.5	5,935.5 5,657.7 277.8 4.7	5,938.4 5,663.5 274.9 4.6
Rhode Island													
Civilian labor force Employed Unemployed Unemployment rate	506.7 481.4 25.2 5.0	507.5 482.9 24.6 4.9	508.6 484.1 24.5 4.8	506.5 481.9 24.6 4.9	509.5 483.7 25.8 5.1	506.6 481.9 24.7 4.9	501.8 478.4 23.4 4.7	498.4 477.9 20.5 4.1	500.1 477.8 22.2 4.4	499.6 475.5 24.0 4.8	502.6 478.0 24.6 4.9	502.2 476.0 26.2 5.2	503.0 478.1 24.9 4.9

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

(Numbers in thousands)

_	19	97						1998					
State	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
South Carolina													
Civilian labor force	1,907.7 1,836.9 70.8 3.7	1,902.9 1,832.9 70.0 3.7	1,908.4 1,834.5 73.8 3.9	1,910.4 1,844.5 65.8 3.4	1,902.6 1,856.3 46.2 2.4	1,913.3 1,856.8 56.6 3.0	1,919.4 1,854.3 65.0 3.4	1,929.2 1,867.3 61.9 3.2	1,941.5 1,868.0 73.4 3.8	1,930.3 1,863.5 66.9 3.5	1,932.6 1,869.2 63.3 3.3	1,949.8 1,875.6 74.2 3.8	1,959.3 1,883.5 75.8 3.9
South Dakota													
Civilian labor force Employed Unemployed Unemployment rate	395.9 384.8 11.2 2.8	397.5 386.7 10.8 2.7	398.0 386.7 11.3 2.8	398.7 388.2 10.5 2.6	398.6 387.8 10.8 2.7	398.4 387.4 11.0 2.8	399.8 388.9 10.9 2.7	400.6 390.0 10.7 2.7	401.2 389.9 11.3 2.8	398.5 389.5 9.0 2.3	399.4 389.8 9.7 2.4	402.3 391.9 10.4 2.6	403.9 393.1 10.8 2.7
Tennessee													
Civilian labor force	2,753.6 2,611.2 142.5 5.2	2,775.2 2,634.7 140.6 5.1	2,782.4 2,660.5 121.9 4.4	2,776.9 2,656.6 120.3 4.3	2,781.4 2,650.8 130.7 4.7	2,790.0 2,657.2 132.9 4.8	2,779.4 2,658.8 120.7 4.3	2,766.6 2,659.7 106.9 3.9	2,772.3 2,665.5 106.9 3.9	2,775.4 2,661.1 114.2 4.1	2,782.1 2,667.4 114.7 4.1	2,787.4 2,674.7 112.7 4.0	2,780.5 2,671.9 108.6 3.9
Texas													
Civilian labor force	9,955.2 9,454.0 501.3 5.0	9,979.9 9,489.4 490.5 4.9	10,011.7 9,520.9 490.9 4.9	10,022.0 9,558.1 463.9 4.6	10,051.2 9,581.3 469.9 4.7	10,070.5 9,611.9 458.7 4.6	10,100.4 9,640.1 460.3 4.6	10,133.4 9,630.8 502.6 5.0	10,161.7 9,661.1 500.6 4.9	10,169.7 9,660.9 508.9 5.0	10,215.3 9,701.3 514.0 5.0	10,216.9 9,713.7 503.2 4.9	10,169.5 9,700.1 469.4 4.6
Utah													
Civilian labor force	1,061.9 1,030.9 31.1 2.9	1,069.7 1,038.8 30.9 2.9	1,076.5 1,045.6 30.9 2.9	1,079.5 1,048.4 31.1 2.9	1,077.5 1,043.9 33.6 3.1	1,080.1 1,045.5 34.6 3.2	1,080.2 1,047.2 33.0 3.1	1,081.4 1,046.6 34.8 3.2	1,085.1 1,046.1 39.0 3.6	1,084.6 1,048.7 35.9 3.3	1,084.5 1,048.2 36.3 3.3	1,090.4 1,055.3 35.1 3.2	1,089.0 1,056.7 32.3 3.0
Vermont													
Civilian labor force	329.3 316.9 12.4 3.8	330.3 318.0 12.3 3.7	329.2 317.2 12.0 3.6	330.8 319.3 11.5 3.5	331.8 320.4 11.4 3.4	330.2 319.6 10.6 3.2	329.1 317.9 11.2 3.4	330.4 318.9 11.5 3.5	333.3 321.5 11.8 3.5	332.9 323.2 9.8 2.9	330.9 320.5 10.4 3.2	330.8 320.3 10.5 3.2	331.6 321.9 9.7 2.9
Virginia										:			
Civilian labor force	3,500.9 3,376.1 124.8 3.6	3,538.4 3,417.2 121.2 3.4	3,541.0 3,424.7 116.4 3.3	3,547.6 3,431.8 115.8 3.3	3,554.8 3,436.2 118.6 3.3	3,540.2 3,440.8 99.4 2.8	3,555.0 3,448.8 106.2 3.0	3,554.9 3,443.8 111.2 3.1	3,554.6 3,449.1 105.5 3.0	3,567.5 3,456.0 111.5 3.1	3,580.5 3,468.7 111.8 3.1	3,579.1 3,466.8 112.3 3.1	3,577.0 3,470.2 106.8 3.0
Washington										ļ			
Civilian labor force	3,010.2 2,877.7 132.6 4.4	3,016.0 2,882.4 133.6 4.4	3,012.2 2,877.6 134.6 4.5	3,009.4 2,884.7 124.6 4.1	3,025.7 2,900.7 125.0 4.1	3,000.0 2,874.2 125.9 4.2	3,045.6 2,911.6 134.0 4.4	3,027.6 2,886.8 140.8 4.7	3,024.0 2,881.5 142.5 4.7	3,022.7 2,880.0 142.7 4.7	3,065.9 2,908.3 157.6 5.1	3,087.0 2,937.6 149.4 4.8	3,081.8 2,935.9 145.9 4.7
West Virginia													
Civilian labor force	805.0 752.1 52.9 6.6	802.7 751.0 51.6 6.4	802.9 753.7 49.2 6.1	800.4 754.2 46.2 5.8	807.0 752.0 55.1 6.8	806.2 752.9 53.4 6.6	811.3 759.3 52.0 6.4	806.4 750.5 55.9 6.9	807.6 752.3 55.3 6.8	803.5 748.7 54.8 6.8	802.8 751.4 51.5 6.4	810.4 757.0 53.4 6.6	807.3 756.2 51.1 6.3
Wisconsin		į							İ				
Civilian labor force	2,947.0 2,843.1 103.8 3.5	2,953.0 2,849.8 103.2 3.5	2,963.4 2,869.6 93.8 3.2	2,962.7 2,875.3 87.3 2.9	2,957.6 2,866.5 91.1 3.1	2,947.9 2,878.4 69.4 2.4	2,949.3 2,870.9 78.4 2.7	2,954.5 2,867.2 87.3 3.0	2,970.5 2,869.4 101.1 3.4	2,964.9 2,868.4 96.4 3.3	2,963.6 2,867.5 96.1 3.2	2,968.0 2,865.7 102.3 3.4	2,970.2 2,865.6 104.6 3.5
Wyoming				Ì									
Civilian labor force	253.0 241.4 11.6 4.6	254.9 243.5 11.4 4.5	254.0 243.5 10.6 4.2	254.2 244.0 10.2 4.0	255.0 244.3 10.7 4.2	254.8 244.2 10.5 4.1	256.3 245.0 11.3 4.4	258.1 245.9 12.1 4.7	258.8 247.0 11.9 4.6	258.6 246.6 11.9 4.6	257.9 246.0 11.9 4.6	258.1 245.7 12.4 4.8	257.9 245.6 12.3 4.8

revised when new benchmark and population information becomes available.

P = preliminary. 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)

	ŀ	Civilian I	abor force					Unem	ployed		 .	
.		Civilian	adoi ioice			Nu	mber			Percent of	labor force	•
State and area	Oct	ober	Nove	mber	Oct	ober	Nove	mber	Oct	ober	Nove	ember
	1997	1998	1997	1998 ^p	1997	1998	1997	1998P	1997	1998	1997	1998
labama	2.178.6	2.164.3	2,178.8	2.166.7	108.7	97.5	97.3	86.1	5.0	4.5	4.5	4.0
Anniston		54.1	55.3	54.4	3.5	2.7	3.1	2.5	6.3	5.0	5.5	4.6
Birmingham	474.3	477.2	474.6	479.4	16.5	15.1	14.5	12.8	3.5	3.2	3.0	2.7
Decatur		72.1	72.8	72.0	3.4	3.2	3.1	2.8	4.7	4.5	4.3	3.8
Dothan		67.0	67.9	67,1	3.2	2.4	2.8	2.2	4.8	3.6	4.1	3.3
Florence Gadsden		71.7 51.9	72.3 51.1	71.9 51.6	4.6 2.5	4.5 3.5	4.3 2.2	4.4 2.8	6.3 4.8	6.3 6.8	6.0 4.4	6. 5.
Huntsville		171.1	172.6	171.9	4.6	5.4	4.6	4.6	2.7	3.1	2.7	2.
Mobile		271.5	269.8	271.9	12.7	11.5	11.2	9.8	4.7	4.3	4.1	3.6
Montgomery		160.4	161.6	161.5	7.0	5.4	6.0	4.6	4.3	3.4	3.7	2.5
Tuscaloosa	84.5	86.0	85.6	87.1	2.7	2.3	2.4	2.1	3.2	2.7	2.8	2.4
Anchorage		320.5 143.3	314.8 142.1	315.6 143.9	22.5 7.7	18.7 6.0	22.9 7.7	16.9 5.2	7.1 5.5	5.8 4,2	7.3 5.5	5.4 3.6
-		1										Į
rizona		2,300.1	2,224.9	2,305.8	100.6 4.3	87.7	88.5 4.2	84.0	4.6 7.2	3.8 5.4	4.0 7.0	3.6 5.5
Flagstaff Phoenix-Mesa		58.2 1,528.0	59.6 1,469.3	60.2 1,535.6	4.3 43.6	3.1 40.9	38.8	3.3 39.4	7.2 3.0	2.7	2.6	2.6
Tucson		371.9	365.1	371.3	12.4	9.0	10.6	8.7	3.4	2.7	2.0	2.5
Yuma		66.4	64.5	65.7	18.1	16.6	15.8	14.9	27.9	25.0	24.4	22.
rkansas	1 215 0	1 244 0	1.226.1	1 244 7	50.2	E7 E	E4 2	E7 4	43	1.5	,,	
rkansasFayetteville-Springdale-Rogers		1,244.8 142.9	1,226.1	1,244.7 143.0	52.3 3.6	57.5 3.8	54.3 3.7	57.4 3.7	4.3 2.6	4.6 2.7	4.4 2.6	2.0
Fort Smith		96.8	96.0	96.6	4.9	4.4	4.8	4.4	5.1	4.6	5.0	4.
Jonesboro		42.2	41.7	42.4	1.3	1.4	1.5	1.5	3.2	3.4	3.6	3.
Little Rock-North Little Rock		301.2	299.1	302.3	10.2	10.1	10.2	9.6	3.4	3.4	3.4	3.
Pine Bluff	35.9	3 6.7	35.9	36.7	2.4	2.5	2.3	2.6	6.6	6.9	6.4	7.0
alifornia	16,141.9	16,377.2	16,092.0	16,318.5	951.7	928.9	943.9	901.2	5.9	5.7	5.9	5.5
Bakersfield		272.9	283.1	278.5	35.2	30.0	35.9	34.7	12.5	11.0	12.7	12.5
Chico-Paradise		87.4	87.5	87.5	5.8	5.6	6.7	5.7	6.7	6.4	7.6	6.5
Fresno		428.2	420.4	419.6	57.6	55.5	59.8	58.1	13.5	13.0	14.2	13.8
Los Angeles-Long Beach		4,651.5 82.6	4,521.8 84.0	4,670.1 82.2	285.0	302.0 9.9	283.5 13.0	292.8 11.6	6.3	6.5 12.0	6.3 15.5	6.3
Merced		206.7	204.0	203.8	11.0 24.1	22.6	25.0	22.2	13.3 11.8	11.0	12.2	10.9
Oakland		1,204.0	1,189.4	1,197.9	48.3	45.8	44.3	40.5	4.1	3.8	3.7	3.4
Orange County		1,433.0	1,396.0	1,424.5	44.3	42.4	39.7	37.3	3.2	3.0	2.8	2.6
Redding	74.8	74.5	72.9	72.5	5.7	5.2	6.1	5.4	7.7	7.0	8.4	7.4
Riverside-San Bernardino		1,408.2	1,367.9	1,403.2	94.4	87.4	84.6	76.3	6.9	6.2	6.2	5.4
Sacramento		749.3	745.5	747.0	37.5	34.3	35.6	30.6	5.1	4.6	4.8	4.1
Salinas		183.9	186.3	184.5	12.8	12.2	19.1	17.1	7.0 4.0	6.7 3.7	10.2	9.3
San Francisco		1,306.6 947.4	1,294.3 939.8	1,301.6 941.8	51.9 30.2	48.3 27.7	46.5 27.3	42.2 23.6	3.2	2.9	3.6 2.9	2.5
San Jose		966.5	952.5	956.4	26.6	35.4	24.4	31.2	2.8	3.7	2.6	3.3
San Luis Obispo-Atascadero-Paso Robles		110.2	109.8	109.8	4.7	4.3	4.9	4.0	4.3	3.9	4.5	3.6
Santa Barbara-Santa Maria-Lompoc		195.7	197.7	195.5	9.2	7.6	10.0	8.3	4.7	3.9	5.1	4.2
Santa Cruz-Watsonville		147.2	144.4 240.6	144.9 242.4	8.7 8.1	7.6 6.9	10.3 8.0	9.2 6.4	6.0 3.3	5.2 2.8	7.1 3.3	6.3
Santa Rosa		249.5	246.6	245.9	24.0	22.5	26.8	24.4	9.6	9.0	10.9	9.9
Vallejo-Fairfield-Napa		248.8	242.2	245.7	13.8	11.1	13.5	10.8	5.6	4.5	5.6	4.4
Ventura	387.6	390.8	385.4	389.2	26.2	22.7	26.3	22.8	6.8	5.8	6.8	5.8
Visalia-Tulare-Porterville		164.9	161.8	164.2	25.9	24.1	26.8	26.6	15.8	14.6	16.6	16.2
Yolo		87.5 56.3	87.1 56.4	87.4 56.8	4.4 6.7	3.7 6.2	5.2 8.2	4.2 7.5	5.0 12.0	4.3 10.9	5.9 14.6	4.8 13.1
•		!						Ì				
olorado		2,296.4	2,210.0	2,279.2	59.9	77.6	63.6	73.2	2.7	3.4	2.9	3.2
Boulder-Longmont		179.1	175.3	177.2	4.1	5.5	4.2	5.0	2.4	3.1	2.4	2.8
Colorado Springs		262.4 1,162.0	251.0 1,114.9	261.2 1,152.8	7.8 26.2	10.4 32.4	8.1 27.6	9.7 29.9	3.1 2.4	4.0 2.8	3.2 2.5	3.7 2.6
Fort Collins-Loveland		142.4	137.5	1,132.6	3.5	4.9	3.7	5.0	2.4	3.5	2.5	3.6
Grand Junction		60.1	57.6	59.1	2.2	2.4	2.3	2.3	3.7	4.1	3.9	3.9
Greeley		87.2	82.3	85.9	2.5	3.6	2.8	3.3	3.0	4.1	3.4	3.9
Pueblo		64.3	61.1	63.3	2.2	4.0	2.3	3.7	3.6	6.3	3.8	5.8
onnecticut	1,723.6	1,719.0	1,721.5	1,721.6	73.5	56.7	72.3	58.0	4.3	3.3	4.2	3.4
Bridgeport		217.3	218.9	217.4	11.1	9.0	11.0	9.1	5.1	4.2	5.0	4.2
Danbury	108.9	110.1	109.4	110.5	3.0	2.5	2.8	2.6	2.7	2.2	2.6	2.3
Hartford		581.9	584.1	582.5	25.8	19.8	25.5	19.8	4.4	3.4	4.4	3.4
New Haven-Meriden		270.4	271.8	271.2	11.7	8.8	11.3	9.4	4.3	3.3	4.2	3.5
New London-Norwich		154.6 197.7	154.1 196.1	154.0 198.2	7.8 5.4	5.8 4.5	7.7 5.4	5.7 4.7	5.1 2.8	3.8 2.3	5.0 2.8	3.1
Stamford-Norwalk	1	119.3	119.1	120.0	5.4	4.5	5.4	4.7	2.0 4.7	3.6	4.5	3.8
	1							,)
elaware		395.0	386.6	400.1	12.2	13.1	11.5	13.0	3.2	3.3	3.0	3.
Dover Wilmington-Newark		71.6 293.0	68.7 291.4	72.4	2.3	3.3	2.2 9.9	2.4 9.6	3.5 3.6	4.6 3.2	3.2 3.4	3.
		ı 293.0	291.4	296.6	10.4	9.5	9.9	9.0	J.D	J.Z	ı J.4	. 3

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

(Numbers in thousands)

		Of the second	h (į				Unem	ployed			
		Civilian la	bor force			Nur	nber			Percent of	labor force)
State and area	Octo	ber	Nove	mber	Oct	ober	Nove	mber	Oct	ober	Nove	ember
	1997	1998	1997	1998 ^p	1997	1998	1997	1998P	1997	1998	1997	1998P
District of Columbia	255.4	260.1	255.2	258.1	20.4	22.6	20.3	21.5	8.0	8.7	7.9	8.3
Washington	2,529.4	2,595.3	2,549.3	2,602.3	90.5	79.5	87.5	76.1	3.6	3.1	3.4	2.9
Florida	7,216.3	7,388.5	7,240.8	7,372.8	336.0	323.6	334.4	314.9	4.7	4.4	4.6	4.3
Daytona Beach	190.2	192.5	189.8	191.0	7.1	6.6	7.4	6.5	3.7	3.4	3.9	3.4
Fort Lauderdale	762.1	774.9	764.1	772.2	36.8	34.7	37.6	34.8	4.8	4.5	4.9	4.5
Fort Myers-Cape Coral	170.2	172.0	171.5	171.3	5.8 11.6	5.4 12.1	5.7 10.5	5.0 10.8	3.4 9.5	3.1 9.7	3.3 8.6	2.9 8.7
Fort Pierce-Port St. Lucie	122.0 78.1	124.6 80.8	122.3 77.6	124.0 79.6	2.8	2.5	3.0	2.5	3.5	3.1	3.9	3.2
Fort Walton Beach	104.2	105.7	104.0	104.8	2.6	2.5	2.7	2.4	2.5	2.4	2.6	2.3
Jacksonville	544.2	555.8	539.9	551.7	18.1	16.0	18.8	16.1	3.3	2.9	3.5	2.9
Lakeland-Winter Haven	196.6	199.1	198.1	199.6	12.5	11.5	11.2	10.2	6.4	5.8	5.7	5.1
Melbourne-Titusville-Palm Bay	205.4	209.2	205.1	207.6	9.1	9.9	9.1	9.6	4.4	4.7	4.5	4.6
Miami	1,049.4	1,060.6	1,055.4	1,060.4	72.3	69.0	73.9	70.6	6.9	6.5	7.0	6.7
Naples	86.8	90.5	88.7	91.9	5.1	4.6	4.0	3.8	5.9	5.1	4.5	4.1
Ocala	95.9	97.7	95.9	97.3	4.1	4.2	4.1 27.5	4.0	4.2 3.2	4.3 3.0	4.3 3.3	4.1
Orlando	832.0 65.0	857.1 67.4	830.1 64.8	853.4 66.3	27.0 / 4.2	25.4 ; 5.4	27.5 5.4	25.1 5.3	3.2 6.4	8.0	8.4	8.0
Panama City	173.1	176.7	172.0	174.7	6.4	6.6	6.6	6.4	3.7	3.7	3.8	3.7
Punta Gorda	45.9	46.0	46.3	46.1	1.7	1.7	1.8	1.5	3.7	3.6	3.8	3.3
Sarasota-Bradenton	271.1	287.7	275.6	289.2	7.5	7.1	7.0	6.2	2.8	2.5	2.5	2.2
Tallahassee	145.4	146.6	144.0	145.4	4.3	4.5	4.4	4.6	3.0	3.1	3.0	3.1
Tampa-St. Petersburg-Clearwater West Palm Beach-Boca Raton	1,150.6 490.3	1,187.8 503.2	1,156.4 494.4	1,185.1 506.4	38.8 32.1	35.3 30.1	39.5 28.7	34.6 28.1	3.4 6.5	3.0 6.0	3.4 5.8	2.9 5.6
Georgia	3,949.2	4,017.8	3,950.1	4.043.2	175.9	164.0	156.1	152.4	4.5	4.1	4.0	3.8
Albany	58.7	59.0	58.1	58.9	4.1	4.9	3.6	4.5	6.9	8.3	6.3	7.7
Athens	73.5	75.1	73.5	75.5	2.2	2.0	2.0	1.8	3.0	2.7	2.7	2.3
Atlanta	2,089.1	2,125.4	2,094.1	2,143.9	76.3	68.2	66.2	63.7	3.7	3.2	3.2	3.0
Augusta-Aiken	203.4	205.0	202.6	205.0	12.3	11.0	10.7	9.5	6.0	5.3	5.3 4.8	4.6 4.4
Columbus	122.8 153.6	124.1 155.6	123.3	125.1 156.0	6.5 7.5	6.1 7.9	5.9 6.5	5.5 7.4	5.3 4.9	4.9 5.1	4.0	4.4
MaconSavannah	133.0	135.4	153.2 133.9	136.9	6.1	7.0	5.4	6.4	4.6	5.2	4.0	4.7
Hawaii	589.0 424.7	595.8 429.1	594.2 428.8	597.6 430.2	35.0 21.4	34.0 21.9	34.2 21.0	34.2 21.9	5.9 5.0	5.7 5.1	5.8 4.9	5.7 5.1
ldaho	636.6	661.3	637.6	663.7	27.4	26.9	29.8	29.8	4.3	4.1	4.7	4.5
Boise City	210.8	223.9	218.2	230.1	7.3	7.2	7.6	7.6	3.4	3.2	3.5	3.3
Pocatello	39.4	41.1	40.8	42.6	2.0	1.7	2.1	1.9	5.0	4.1	5.1	4.5
Illinois	6,151.6	6,187.0	6,169.3	6,179.8	261.1	247.2	268.0	254.4 1.6	4.2	4.0 1.8	4.3 2.3	4.1 1.9
Bloomington-Normal	82.7 95.0	84.6 94.8	82.7 94.9	84.6 94.8	1.8 2.3	1.5 2.1	1.9 2.4	2.2	2.2 2.4	2.3	2.5	2.3
Champaign-Urbana Chicago	4,102.6	4,137.4	4,115.4	4,132.7	170.9	163.1	173.3	165.3	4.2	3.9	4.2	4.0
Davenport-Moline-Rock Island	184.4	184.9	186.0	186.7	5.2	5.1	5.5	6.0	2.8	2.7	3.0	3.2
Decatur	58.1	57.5	58.1	57.4	3.6	2.8	3.7	2.8	6.2	4.8	6.3	4.8
Kankakee	52.0	51.9	52.0	51.9	2.5	3.0	2.6	2.9	4.8	5.8	5.0	5.6
Peoria-Pekin	183.0	182.4 194.1	184.7	181.7 192.0	7.0 7.2	6.0 7.3	7.2 7.2	6.2 7.9	3.8 3.7	3.3 3.8	3.9 3.7	3.4
RockfordSpringfield	195.6 106.7	105.6	195.1 106.5	105.5	4.0	3.8	4.2	3.8	3.8	3.6	4.0	3.6
indiana	3,122.2	3,115.2	3,115.5	3,124.3	104.1	77.7	100.4	85.2	3.3	2.5	3.2	2.7
Bloomington	64.3	62.8	64.0	63.2	1.3	1.2	1.3	1.3	2.1	2.0	2.0	2.1
Elkhart-Goshen	94.6	93.3	94.0	93.8	3.4	1.9	3.1 5.8	2.0	3.6	2.0	3.3	2.2
Evansville-Henderson	158.8 268.4	156.0 265.0	158.7 267.8	156.3 265.3	6.2 7.3	4.4 6.0	5.8 6.7	4.9 6.4	3.9 2.7	2.8 2.3	3.7 2.5	2.4
Fort WayneGary	304.4	302.3	303.7	303.6	12.0	9.9	11.7	10.8	3.9	3.3	3.8	3.6
Indianapolis	839.8	844.8	840.5	850.1	22.7	17.6	21.4	19.4	2.7	2.1	2.5	2.3
Kokomo	51.6	53.1	52.7	53.5	1.7	1.1	1.5	1.5	3.2	2.1	2.9	2.8
Lafayette	91.7	92.3	92.2	92.4	2.2	1.6	2.2	1.7	2.4	1.7	2.4	1.9
Muncie	63.8 137.6	62.9 137.0	64.4 137.0	63.8 137.2	2.2 4.6	1.9 3.0	2.1 4.2	2.0 3.3	3.4 3.3	3.1 2.2	3.3	3.1
South Bend Terre Haute	73.8	71.3	73.6	71.3	4.0	2.5	4.2	2.8	5.5	3.5	5.4	3.9
owa	1,579.5	1,571.2	1,579.8	1,574.1	37.0	33.5	42.5	37.7	2.3	2.1	2.7	2.4
Cedar Rapids	108.9	108.3	110.1	109.9	2.0	1.6	2.2	1.7	1.8	1.5	2.0	1.5
Des Moines	249.8	249.5	250.3	252.3 49.5	4.9 1.3	4.5 1.2	5.4 1.4	4.6 1.3	2.0 2.7	1.8 2.4	2.1	1.8 2.6
Dubuque	49.6 65.6	49.1 64.5	49.7 66.2								2.9	
	49.6 65.6 65.2	49.1 64.5 64.9	66.2 65.5	65.6 65.2	1.4 1.7	1.3	1.5 1.8	1.3 1.6	2.1 2.5	2.1	2.9 2.2 2.8	2.1

STATE AND AREA LABOR FORCE DATA NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

		Civilian I	abor force	İ				Unerr	ployed			
Chata and area		Civillati	abor lorce			Nur	mber			Percent of	labor force	•
State and area	Oct	ober	Nove	mber	Oct	ober	Nove	mber	Oct	ober	Nove	ember
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998
	1	į į								1		
ansas		1,431.5	1,402.7	1,437.3	49.3	51.3	49.5	51.4	3.6	3.6	3.5	3.6
Lawrence		57.0	55.9	57.6	2.1	2.3	2.1	2.2	3.9	4.0	3.7	3.8
Topeka		90.9	90.5	90.7	4.7	4.3	4.3	3.9	5.2	4.7	4.7	4.3
Wichita	279.6	290.1	283.1	290.9	9.0	9.7	8.7	9.7	3.2	3.4	3.1	3.3
	4 000 4	1 040 0	4 040 0	10567	01.7	70.0	00.5	70.0	4.7	١.,	م ا	۱.,
entucky Lexington		1,942.0 262.5	1,948.9 260.4	1,956.7 263.9	91.7 6.1	78.9 5.0	90.5 5.6	78.8 5.0	4.7 2.4	4.1 1.9	4.6 2.1	4.0
Louisville		560.3	558.5	564.9	19.6	16.5	21.6	15.5	3.6	2.9	3.9	2.7
Owensboro		50.0	50.0	50.7	2.4	2.0	2.1	2.1	4.8	4.0	4.3	4.1
		00.0	1	""					0]	""	"
ouisiana	2,042.1	2,079.4	2,039.6	2,059.7	116.1	101.1	110.4	99.7	5.7	4.9	5.4	4.8
Alexandria		60.4	58.8	59.8	3.3	2.8	3.3	2.7	5.7	4.6	5.5	4.5
Baton Rouge		303.7	294.0	300.7	14.5	11.6	13.5	11.1	4.9	3.8	4.6	3.
Hourna		94.4	91.1	93.6	2.7	3.1	2.6	3.2	3.0	3.3	2.8	3.4
Lafayette		182.9	178.3	182.0	10.3	8.8	9.5	8.7	5.8	4.8	5.3	4.8
Lake Charles		91.6	91.2	90.8	5.2	4.6	5.2	4.8	5.7	5.0	5.7	5
Monroe		70.5	70.8 623.8	69.9	4.3 33.2	3.2 26.2	4.1 30.5	3.1 25.1	6.1 5.3	4.6 4.2	5.7 4.9	4.
New Orleans		625.9 190.9	186.7	619.6 188.5	11.7	9.5	30.5 11.0	25.1 9.1	6.3	5.0	5.9	4.
Onleveport-Dossier Oity	107.0	190.9	100.7	100.3	11.7	9.0	11.0	3.1	3.3	3.0	J.5	1
aine	657.1	660.4	652.6	660.6	29.9	24.8	34.2	28.6	4.5	3.8	5.2	4.
Bangor		51.3	50.4	53.0	1.8	1.2	2.0	1.5	3.6	2.4	3.9	2.
Lewiston-Aubum		52.7	52.8	53.2	2.6	2.0	2.8	2.2	4.9	3.9	5.3	4.
Portland		131.8	133.4	133.5	3.5	2.7	3.7	2.8	2.6	2.1	2.7	2.
	i _											
aryland		2,792.7	2,791.5	2,800.2	137.6	113.0	134.7	116.8	4.9	4.0	4.8	4.
Baltimore		1,318.7	1,322.4	1,318.7	72.8	61.1	69.2	62.4	5.5	4.6	5.2	4.
Cumberland		46.5	46.2	47.0	3.4	3.5	3.5	3.6	7.3	7.5	7.6	7.
Hagerstown	71.8	71.7	71.9	72.2	3.1	2.5	3.2	2.5	4.3	3.5	4.4	3.
assachusetts	3,263.1	3,267.9	3,265.8	3,270.9	111.3	94.7	113.6	84.5	3.4	2.9	3.5	2.0
Barnstable-Yarmouth		72.8	70.4	71.0	2.5	2.0	3.7	2.7	3.4	2.8	5.2	3.
Boston		1,820.0	1,814.5	1,827.1	54.5	45.1	54.0	39.3	3.0	2.5	3.0	2.
Brockton	1	132.5	133.5	133.3	5.2	4.2	5.1	3.6	3.9	3.1	3.8	2.
Fitchburg-Leominster		69.6	70.7	69.4	3.0	2.6	3.0	2.2	4.3	3.7	4.3	3.
Lawrence		196.7	198.7	197.6	9.3	9.4	9.3	8.8	4.7	4.8	4.7	4.
Lowell		166.9	165.9	167.3	5.5	5.2	5.5	4.6	3.4	3.1	3.3	2.
New Bedford		80.7	81.8	80.9	4.9	4.4	5.1	4.0	6.1	5.5	6.3	4.
Pittsfield		40.1	40.0	40.1	1.7	1.3	1.8	1.3	4.2	3.4	4.4	3.
Springfield		284.8	286.6	285.7	10.2	9.0	10.8	8.1	3.6	3.2	3.8	2.
Worcester	250.7	249.4	251.5	250.2	7.8	7.3	8.0	6.5	3.1	2.9	3.2	2.
lablass	5,003.6	5,082.3	5,016.5	5.096.2	169.9	155.2	177.2	158.8	3.4	3.1	3.5	3.
Ann Arbor		300.1	295.9	300.5	5.8	5.3	5.8	5.0	2.0	1.8	2.0	1.
Benton Harbor		84.3	84.6	84.8	3.7	3.0	3.7	3.2	4.4	3.6	4.4	3.
Detroit		2,275.2	2,243.4	2,287.0	73.3	68.7	71.7	64.7	3.3	3.0	3.2	2.
Flint		204.3	205.1	205.0	9.5	8.8	9.4	8.3	4.7	4.3	4.6	4.
Grand Rapids-Muskegon-Holland	589.4	605.2	590.1	607.2	16.6	14.9	17.0	15.2	2.8	2.5	2.9	2.
Jackson		77.5	77.1	77.7	3.1	2.3	3.0	2.2	4.1	3.0	3.9	2.
Kalamazoo-Battle Creek		233.8	233.2	234.1	7.5	6.4	7.9	6.3	3.2	2.7	3.4	2.
Lansing-East Lansing		245.5	246.7	246.6 204.9	6.3	5.1 6.5	6.3 7.4	5.1 7.1	2.6 3.5	2.1 3.2	2.6 3.6	2.
Saginaw-Bay City-Midland	201.9	204.8	202.2	204.9	7.0	0.0	7.4	/.1	J.5	3.2	٥.٥	J 3.
innesota	2.670.8	2,712.3	2,671.9	2,714.8	72.4	50.4	67.3	53.5	2.7	1.9	2.5	2.
Duluth-Superior		125.3	124.7	125.7	5.2	3.6	5.2	4.1	4.2	2.9	4.2	3.
Minneapolis-St.Paul		1,700.7	1,671.6	1,709.9	38.4	26.9	32.6	26.2	2.3	1.6	2.0] 1.
Rochester	67.5	69.3	67.4	69.3	1.2	0.8	1.0	0.8	1.8	1.2	1.5	1.
St. Cloud	94.0	93.8	94.1	94.3	2.8	1.9	2.7	2.0	2.9	2.0	2.8	2.
is also had	1.07	10000	10704	10040	60.0	60.0	60.0	50.0	e e		4-	١.
ssissippi		1,283.0	1,279.1	1,284.0 164.9	69.6 7.6	60.6 6.6	60.6 6.6	53.2 5.3	5.5 4.7	4.7 4.0	4.7 4.0	4. 3.
Biloxi-Gulfport-Pascagoula		164.9 51.9	162.5 52.8	51.9	1.6	1.6	1.4	1.3	3.1	3.1	2.6	2.
Hattiesburg Jackson		232.2	227.9	232.1	8.0	7.6	6.8	6.4	3.6	3.3	3.0	2.
945N35()	225.0	202.2			0.0	7.0] 3.0	5.7	3.0] 5.5] 5.5	- ا
ssouri	2,888.0	2,903.3	2,889.9	2,897.8	103.7	93.2	107.5	96.7	3.6	3.2	3.7	3.
Columbia	1 1	78.6	79.9	78.1	1.0	1.0	1.1	1.1	1.3	1.2	1.3	1.
Joplin	79.6	79.7	78.7	78.3	3.0	3.3	2.9	3.1	3.7	4.1	3.7	3.
Kansas City	967.3	998.9	976.5	998.8	32.6	31.2	32.6	31.6	3.4	3.1	3.3	3.
St. Joseph	48.9	49.6	49.1	49.7	2.4	1.9	2.3	1.9	4.8	3.9	4.6	3.
St. Louis LMA		1,353.1	1,345.9	1,360.0	49.8	47.9	51.0	48.2	3.7	3.5	3.8	3.
Springfield	169.0	171.6	170.1	171.7	4.6	3.9	5.1	4.2	2.7	2.3	3.0	2.
	1	400.0	455 0	464.0	24.6	20.6	244	25.0	40	4.0		_
ontana	455.4	463.6	455.2	464.9	21.8	22.6	24.1	25.8	4.8	4.9	5.3	\ 5.
Billings		70.2	69.2	70.4	2.7	2.5	2.8	2.7	4.0	3.5	4.1	3

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

(Numbers in thousands)

	1	Civilian I	borfora-	ļ				Unem	ployed			
0		Civilian ia	bor force			Nur	mber			Percent of	labor force	
State and area	Octo	ber	Nove	mber	Oct	ober	Nove	mber	Oct	ober	Nove	ember
	1997	1998	1997	1998 ^p	1997	1998	1997	1998 ^p	1997	1998	1997	1998P
	}						{			1		1
Nebraska		933.7	920.6	935.2	19.1	19.5 2.2	15.5 2.1	19.0 2.1	2.1 1.8	2.1 1.5	1.7 1.4	2.0 1.4
LincolnOmaha		145.2 402.8	145.0 392.9	145.4 403.8	2.6 8.4	8.2	7.1	7.8	2.2	2.0	1.8	1.9
Nevada	897.2	944.9	897.6	948.5	33.7	33.0	32.6	31.4	3.8	3.5	3.6	3.3
Las Vegas	677.2	720.8	679.6	724.5	26.7	25.4	24.9	24.2	3.9	3.5	3.7	3.3
Reno	172.9	177.7	172.2	177.3	5.1	5.1	5.3	5.0	2.9	2.9	3.1	2.8
New Hampshire		651.8 100.2	654.2 102.4	658.0 102.3	16.3 2.3	15.5 2.2	19.2 2.5	20.1 2.8	2.5 2.2	2.4 2.2	2.9 2.4	3.0 2.8
Manchester Nashua		104.6	104.6	106.3	2.5	2.6	2.7	3.2	2.4	2.5	2.6	3.0
Portsmouth-Rochester		121.9	123.1	122.7	2.6	2.4	3.0	2.9	2.1	2.0	2.5	2.4
New Jersey		4,179.6	4,187.7	4,176.7	198.5	178.5	195.2	174.0	4.7	4.3	4.7	4.2
Atlantic-Cape May		173.0	171.6	170.8	13.0	13.1	15.3 30.8	14.8 27.0	7.5 4.7	7.6 4.0	8.9 4.5	8.6 4.0
Bergen-Passaic		677.2 283.6	682.4 285.1	677.7 283.3	32.1 20.7	27.4 19.5	20.3	18.6	7.3	6.9	7.1	6.6
Jersey City Middlesex-Somerset-Hunterdon		647.0	644.0	650.1	22.1	18.9	20.3	18.0	3.4	2.9	3.2	2.8
Monmouth-Ocean		513.5	513.3	513.2	22.7	20.4	22.9	20.4	4.4	4.0	4.5	4.0
Newark		1,019.8	1,020.1	1,018.6	49.9	43.5	46.9	41.3	4.9	4.3	4.6	4.1
Trenton	169.5	167.2	170.3	166.9	7.2	6.4	7.0	6.0	4.3	3.8	4.1	3.6
Vineland-Millville-Bridgeton	66.1	65.8	66.1	65.5	4.7	5.2	5.4	5.2	7.1	7.8	8.2	7.9
New Mexico Albuquerque		850.6 372.1	836.3 365.4	850.7 373.6	46.4 15.1	51.8 18.5	47.7 14.7	50.5 17.0	5.6 4.2	6.1 5.0	5.7 4.0	5.9
Las Cruces		71.3	69.1	70.5	4.9	5.5	5.1	4.9	7.1	7.7	7.4	7.0
Santa Fe		76.2	74.7	76.1	2.6	2.6	2.6	2.4	3.5	3.4	3.4	3.2
New York		8,781.3	8,780.0	8,793.6	533.9	448.5	517.6	450.6	6.1	5.1	5.9	5.1
Albany-Schenectady-Troy		447.8	454.1 126.2	451.6 126.3	18.4 4.7	14.1 4.3	18.3 4.9	14.0	4.1 3.7	3.1	4.0 3.9	3.1
Binghamton Buftalo-Niagara Falls		125.8 573.2	583.3	575.7	29.1	24.0	30.4	25.8	5.0	4.2	5.2	4.5
Dutchess County		120.0	118.7	119.8	4.6	3.6	4.2	3.5	3.9	3.0	3.5	2.9
Elmira		44.1	44.4	44.5	2.0	1.6	2.0	1.7	4.5	3.7	4.5	3.7
Glens Falls	61.5	60.5	60.9	59.5	3.4	2.6	4.2	3.4	5.5	4.3	7.0	5.7
Jamestown		67.3	68.0	67.1	3.7	3.1	4.0	3.4	5.4	4.5	5.8 3.6	5.1
Nassau-Suffolk		1,402.2	1,400.7 3,984.6	1,407.3 4,026.0	54.1 323.7	38.9 281.8	50.9 302.8	37.8 276.0	3.9 8.1	2.8 7.0	7.6	6.9
New York		4,018.2 3,372.4	3,344.6	3,378.6	299.8	262.8	280.9	258.3	8.9	7.8	8.4	7.6
Newburgh		170.9	171.9	170.7	6.8	5.2	6.5	5.1	3.9	3.0	3.8	3.0
Rochester		566.9	574.1	566.8	22.3	19.1	22.7	20.0	3.9	3.4	4.0	3.5
Syracuse	367.9	363.8	368.2	362.9	16.1	12.2	16.6	12.4	4.4	3.3	4.5	3.4
Utica-Rome	142.9	143.2	143.8	143.0	6.7	5.0	7.4	5.5	4.7	3.5	5.1	3.8
North Carolina		3,831.1	3,850.0	3,828.2	126.6	127.0	134.2	121.4 2.5	3.3 2.3	3.3 2.4	3.5 2.4	3.2 2.2
Asheville		111.2 741.9	113.8 749.6	112.9 740.9	2.6 21.6	2.7 18.9	2.7 20.1	17,4	2.3	2.4	2.7	2.3
Fayetteville		114.8	117.1	115.0	4.6	4.8	4.7	4.3	4.0	4.2	4.0	3.8
Goldsboro		49.2	48.4	48.6	1.9	2.3	2.2	2.1	3.9	4.7	4.5	4.3
Greensboro-Winston-Salem-High Point	639.5	627.1	640.6	628.4	16.7	15.4	17.4	14.2	2.6 4.4	2.5	2.7 4.5	2.3
Greenville Hickory-Morganton-Lenoir		65.7 172.4	65.0 175.5	66.2 172.7	2.9 6.3	2.7 4.4	2.9 6.4	2.5 4.0	4.4 3.6	2.6	3.7	2.3
Jacksonville		45.8	45.4	45.9	1.5	1.7	1.6	1.6	3.3	3.7	3.6	3.4
Raleigh-Durham-Chapel Hill	617.0	621.5	617.0	623.3	11.1	10.9	11.3	9.9	1.8	1.8	1.8	1.6
Rocky Mount		68.4 106.7	71.8 108.5	67.9 106.5	4.6 4.2	4.6 4.2	5.1 4.8	4.2 3.9	6.3 3.8	6.7 4.0	7.1	6.2
•						6.1	6.4	7.9	1.4	1.8	1.9	2.3
North Dakota		346.1 53.7	341.6 53.0	340.1 52.8	4.7 0.7	0.1	1.0	1.2	1.3	1.7	1.9	2.3
Fargo-Moorhead		103.7	103.2	102.1	1.0	1.0	1.2	1.2	1.0	0.9	1.1	1.2
Grand Forks		53.3	54.0	54.3	1.1	0.8	1.2	1.0	2.0	1.5	2.2	1.8
Ohio		5,831.5	5,800.0	5,837.7	239.0	229.9	250.3	235.1	4.1	3.9	4.3 4.0	4.0
Akron		371.6 208.9	368.3 206.0	371.5 209.2	14.2 8.4	13.3 7.8	14.7 8.9	13.9 8.2	3.9 4.1	3.6 3.7	4.0	3.7 3.9
Cincinnati		866.5	853.0	870.3	30.4	29.0	29.6	28.0	3.6	3.3	3.5	3.2
Cleveland-Lorain-Elyria	1	1,144.2	1,133.4	1,145.8	49.3	47.7	52.5	48.0	4.4	4.2	4.6	4.2
Columbus	817.6	830.7	822.3	833.6	22.2	22.1	22.4	21.2	2.7	2.7	2.7	2.5
Dayton-Springfield		482.7	486.3	482.7	18.7	17.7	18.6	17.1	3.9	3.7	3.8	3.5
Hamilton-Middletown		176.5	178.4	177.7 77.6	5.8 3.4	5.8 3.6	6.2 3.4	6.0 3.8	3.3 4.4	3.3 4.7	3.5 4.4	3.4 4.9
Lima Manstield		77.2 83.3	76.3 85.2	83.5	5.0	4.5	5.4 5.2	4.4	5.9	5.4	6.1	5.3
Steubenville-Weirton		57.4	58.5	57.2	4.8	3.3	4.6	3.7	8.2	5.7	7.8	6.5
Toledo		320.7	322.2	321.3	14.6	14.6	14.6	14.7	4.5	4.5	4.5	4.6
	289.6	292.2	290.4	292.5	15.1	14.4	15.9	15.2	5.2	4.9	5.5	5.2

STATE AND AREA LABOR FORCE DATA NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

		Civilian Is	abor force	ļ				Unem	ployed			
Ctata and area		Civilari	abol loice			Nur	mber			Percent of	labor force	2
State and area	Oct	ober	Nove	mber	Oct	ober	Nove	mber	Oct	ober	Nove	ember
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998 ^p
		l								İ		
Oklahoma		1,648.8	1,611.6	1,643.6	62.0	70.1	56.0	63.6	3.8	4.3	3.5	3.9
Enid Lawton		28.9 41.2	28.4 40.3	28.7 40.8	0.9 2.0	1.0 2.0	0.8 1.7	0.9 1.8	3.1 5.0	3.5 4.9	2.8 4.2	3.2 4.3
Oklahoma City		546.1	532.6	545.4	17.1	19.1	15.2	16.6	3.2	3.5	2.9	3.0
Tulsa		418.6	406.4	420.0	13.1	13.5	11.6	12.7	3.2	3.2	2.9	3.0
0	1 704 7	1 004 4	1 767 0	1.005.4	05.0	00.0	00.1	07.0	4.0			
Oregon Eugene-Springfield		1,804.4 163.0	1,767.8 162.0	1,805.4 163.4	85.3 7.9	89.8 8.0	92.1 8.3	97.6 8.4	4.8 4.9	5.0 4.9	5.2 5.1	5.4 5.1
Medford-Ashland		91.7	89.0	90.9	5.0	5.2	5.4	5.5	5.6	5.7	6.1	6.1
Portland-Vancouver		1,070.5	1,052.2	1,079.4	39.6	45.0	40.7	46.1	3.8	4.2	3.9	4.3
Salem		170.5	166.2	168.1	7.8	8.1	8.6	9.3	4.7	4.8	5.2	5.5
Danasikasia	6,006.1	5,955.0	6,014.8	5,964.5	269.2	248.2	275.6	257.7	4.5	4.2	4.6	4.3
PennsylvaniaAllentown-Bethlehem-Easton		3,935.0	310.0	306.0	14,1	13.6	13.3	13.6	4.5	4.5	4.3	4.4
Altoona		63.3	63.6	63.2	3.1	2.7	3.2	2.8	4.8	4.2	5.0	4.4
Erie		139.1	141.0	139.6	6.7	6.0	7.2	6.5	4.8	4.3	5.1	4.7
Harrisburg-Lebanon-Carlisle		349.8	351.1	350.2	10.3	9.3	10.2	9.5	2.9	2.7	2.9	2.7
Johnstown	105.1	103.7	105.9	104.3	6.6	5.3	7.4	5.9	6.3	5.1	7.0	5.7
Lancaster		246.3	246.9	246.4	6.9	6.4	7.0	6.6	2.8	2.6	2.8	2.7
Philadelphia		2,496.3	2,510.0	2,495.3	112.9	102.2	110.8	99.5	4.5	4.1	4.4	4.0
Pittsburgh		1,141.5	1,160.0	1,145.8	46.6	46.1	49.4	49.5	4.0	4.0	4.3	4.3
Reading		184.3	187.0 315.8	183.3 314.0	7.0 19.6	7.3 16.4	7.0 20.3	7.4 17.4	3.7 6.2	3.9 5.3	3.7 6.4	4.0 5.6
Scranton—Wilkes-Barre—Hazleton		312.1 56.5	57.1	56.6	2.0	2.0	20.3	2.0	3.6	3.6	3.6	3.6
State College		69.0	69.4	69.2	1.6	1.6	1.7	1.8	2.3	2.4	2.4	2.6
Williamsport		57.6	58.5	57.9	3.6	2.6	3.6	3.0	6.2	4.6	6.2	5.1
York	195.8	193.2	195.9	192.8	6.6	6.5	6.8	6.5	3.3	3.3	3.5	3.3
Rhode Island	511.5	506.2	510.5	506.6	25.9	25.9	22.8	22.3	5.1	5.1	4.5	4.4
Providence-Fall River-Warwick		576.2	582.9	577.9	29.8	28.3	26.6	24.5	5.1	4.9	4.6	4.2
Osvah Ossalisa	1 000 0	10451	1 000 7	10444	70.0	74.4	64.6	60.0	0.0			١
South Carolina		1,945.1 265.2	1,893.7 253.3	1,944.1 265.2	73.0 8.2	74.4 7.7	61.6 6.7	66.6 6.5	3.8 3.2	3.8 2.9	3.3 2.6	3.4
Columbia		279.1	270.3	280.0	6.2	5.7	5.2	5.1	2.3	2.1	1.9	1.8
Florence		62.9	62.3	62.5	2.9	2.9	2.4	2.5	4.6	4.6	3.9	4.0
Greenville-Spartanburg-Anderson		496.7	481.3	498.0	12.5	14.4	10.0	12.5	2.6	2.9	2.1	2.5
Myrtle Beach		100.3	94.4	98.6	3.4	3.3	3.9	3.9	3.5	3.3	4.2	4.0
Sumter	46.7	47.0	46.2	46.9	2.2	2.3	1.8	2.0	4.7	4.8	4.0	4.2
South Dakota	394.5	402.7	394.8	403.2	9.0	8.0	10.5	10.0	2.3	2.0	2.6	2.5
Rapid City	46.0	47.3	46.1	46.9	1.2	0.9	1.3	1.1	2.5	1.9	2.8	2.4
Sioux Falls	98.8	104.4	100.4	104.6	1.4	1.3	1.6	1.4	1.5	1.2	1.6	1.4
Tennessee		2,815.5	2,786.3	2,816.9	135.3	106.8	136.7	105.0	4.9	3.8	4.9	3.7
Chattanooga		229.6	229.3	229.9 84.6	10.5	7.9	10.9 3.7	7.4	4.6	3.4	4.8	3.2
Clarksville-Hopkinsville		84.2 57.8	83.1 57.0	57.6	4.0 2.2	3.1 i 1.9 i	2.2	2.6 1.8	4.9 4.0	3.6 3.2	4.5 3.9	3.1
Johnson City-Kingsport-Bristol		233.4	233.8	233.5	10.7	9.0	10.7	8.6	4.6	3.9	4.6	3.7
Knoxville		349.0	346.4	347.8	12.3	11.5	13.9	11.7	3.6	3.3	4.0	3.4
Memphis		557.8	546.6	558.2	25.8	18.5	24.2	17.6	4.7	3.3	4.4	3.2
Nashville	634.0	652.7	641.3	654.6	21.6	17.9	20.7	16.6	3.4	2.7	3.2	2.5
Texas		10,241.5	9,997.9	10,218.3	479.9	469.5	489.6	460.0	4.8	4.6	4.9	4.5
Abilene	60.4	62.8	60.7	62.4	2.0	2.2	2.1	2.1	3.4	3.5	3.5	3.4
Amarilio		112.8	110.8	112.3	3.7	3.7	3.7	3.5	3.3	3.2	3.3	3.1
Austin-San Marcos		685.2 184.1	662.9 182.1	684.5 184.1	18.5	17.5	18.8 13.7	16.8	2.8 7.4	2.6	2.8	7.0
Beaumont-Port Arthur		106.7	106.1	106.6	13.4	13.0 5.9	6.9	13.0 6.0	6.4	7.1 5.6	7.5 6.5	5.6
Brownsville-Harlingen-San Benito		128.5	127.3	126.7	14.5	15.0	15.8	14.3	11.6	11.7	12.4	11.3
Bryan-College Station		74.3	73.0	74.1	1.3	1.3	1.3	1.2	1.7	1.7	1.8	1.7
Corpus Christi		178.4	176.0	176.9	11.6	12.0	11.4	11.4	6.6	6.7	6.5	6.4
Dallas	1,841.5	1,900.6	1,849.8	1,893.4	62.7	57.7	62.9	55.6	3.4	3.0	3.4	2.9
El Paso		301.2	292.0	299.4	32.0	30.1	29.2	29.2	10.9	10.0	10.0	9.8
Fort Worth-Arlington		881.7 125.8	858.6 124.5	882.0 125.3	27.6 9.0	27.3 7.7	28.1 9.0	26.0 7.5	3.2 7.2	3.1 6.1	3.3 7.2	3.0 6.0
Galveston-Texas City		2,123.5	2,075.4	2,120.0	91.5	81.8	91.7	80.5	4.4	3.9	4.4	3.8
Killeen-Temple		117.8	114.7	117.3	5.5	4.8	5.6	4.4	4.8	4.0	4.8	3.8
Laredo		71.9	70.8	72.0	6.1	6.6	6.5	6.5	8.8	9.2	9.2	9.0
Longview-Marshall	104.1	106.4	104.3	106.1	7.1	7.7	7.3	7.7	6.8	7.3	7.0	7.2
Lubbock	124.1	127.0	124.4	127.0	4.2	3.3	4.3	3.1	3.4	2.6	3.5	2.5
McAllen-Edinburg-Mission		192.7	196.6	195.3	30.2	32.0	35.4	33.5	16.1	16.6	18.0	17.2
Odessa-Midland	124.8	129.6	125.5	129.2	5.3	7.7	5.3	7.7	4.3	5.9	4.2	6.0
					4 ^ 1	^ ^ !	4.0	001	2.2	l		1
San Angelo	51.4	53.0 775.5	51.7 752.9	52.8 773.4	1.6 28.2	2.8 26.0	1.6 28.8	2.6 24.5	3.0 3.8	5.3 3.4	3.0 3.8	4.9 3.2

See footnotes at end of table.

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

(Numbers in thousands)

								Unem	ployed			
	ļ	Civilian la	abor force			Nur	mber			Percent of	labor force	<u> </u>
State and area	Oct	ober	Nove	mber	Oct	ober	Nove	mber	Oct	ober	Nove	mber
	1997	1998	1997	1998 ^p	1997	1998	1997	1998 ^p	1997	1998	1997	1998P
											į	
Texas—Continued				50.0		0.7		0.5			٦,	
Texarkana		58.2	57.6	58.3	3.6	3.7	4.2	3.5	6.3	6.4	7.3	6.0 4.7
Tyler		92.1	89.2	91.8	7.8 1.8	4.5 1.9	5.3 1.7	4.3 1.9	8.6 4.0	4.9 4.2	5.9 4.0	4.7
Victoria		45.1 103.6	43.2 101.3	45.0 102.5	4.3	3.8	4.3	3.4	4.0	3.6	4.3	3.3
Waco		66.8	65.6	67.0	2.6	2.8	2.8	3.1	3.9	4.2	4.3	4.6
Wichita Falls	65.4	00.8	03.0	07.0	2.0	2.0	Į 2.0 .	5.1	0.5	T.2		1.0
Utah	1,065.0	1,099.7	1,071.5	1.099.1	31.7	34.9	30.8	31.9	3.0	3.2	2.9	2.9
Provo-Orem		164.2	160.6	166.2	3.9	4.6	3.6	4.3	2.4	2.8	2.3	2.6
Salt Lake City-Ogden		708.0	691.8	706.7	20.3	21.8	19.5	19.4	3.0	3.1	2.8	2.7
									<u> </u>			
Vermont		334.5	330.6	333.4	11.2	9.4	12.1	9.6	3.4	2.8	3.7	2.9
Burlington	100.4	102.2	100.8	102.5	2.4	2.1	2.4	2.0	2.4	2.0	2.4	1.9
Virginia	3,446.8	3,561.1	3,488.2	3.568.8	118.5	104.7	115.5	98.7	3.4	2.9	3.3	2.8
Charlottesville		78.5	73.9	78.7	1.3	1.1	1.2	1.0	1.8	1.4	1.7	1.2
Danville		58.9	57.2	59.0	3.1	3.1	2.8	3.3	5.4	5.3	4.9	5.6
Lynchburg		103.5	103.6	104.3	3.1	2.4	3.0	2.5	3.1	2.3	2.9	2.4
Norfolk-Virginia Beach-Newport News	729.4	748.2	736.5	748.0	30.7	26.5	29.2	24.9	4.2	3.5	4.0	3.3
Richmond-Petersburg	501.9	517.5	510.0	520.3	16.2	15.1	15.4	13.3	3.2	2.9	3.0	2.6
Roanoke	126.4	128.0	128.0	128.9	3.5	2.7	3.4	2.8	2.7	2.1	2.7	2.1
Wklk	3,024.9	3.099.9	2,995.5	3,065.5	124.6	139.3	134.9	148.8	4.1	4.5	4.5	4.9
Washington		81.6	79.5	81.0	4.2	4.4	4.4	4.5	5.3	5.4	5.5	5.5
Bellingham Bremerton		92.4	92.7	92.5	5.1	4.9	4.9	4.8	5.5	5.3	5.3	5.2
Olympia		99.9	97.5	100.1	5.0	5.0	5.0	4.8	5.1	5.0	5.1	4.8
Richland-Kennewick-Pasco		95.9	88.9	91.8	5.5	6.2	6.9	7.8	5.9	6.5	7.7	8.5
Seattle-Bellevue-Everett		1,393.7	1,369.0	1,405.3	41.3	43.5	40.3	43.0	3.1	3.1	2.9	3.1
Spokane		209.9	208.4	210.2	7.9	11.4	8.4	11.2	3.8	5.4	4.1	5.3
Tacoma	325.7	338.8	328.6	338.5	14.4	15.6	14.4	15.1	4.4	4.6	4.4	4.5
Yakima		124.5	107.4	109.5	8.0	8.8	11.4	12.8	6.4	7.1	10.6	11.7
West Virginia	800.6	806.7	803.0	805.4	47.3	47.2	49.8	48.1	5.9	5.9	6.2	6.0
Charleston	130.1	134.0	131.7	134.2	5.6	5.7	5.7	5.9	4.3	4.2	4.4	4.4
Huntington-Ashland		136.4	137.8	137.8	9.5	7.5	9.0	8.0	6.9	5.5	6.5	5.8
Parkersburg-Marietta		78.6	78.1	79.0	3.7	4.2	4.6	4.3	4.8	5.3 4.1	5.8 5.0	5.4 4.4
Wheeling	73.7	74.5	74.5	74.0	3.4	3.1	3.8	3.2	4.7	4.1	3.0	4.4
Wisconsin	2,937.3	2,964.9	2,939.7	2,963.7	85.7	84.9	89.1	92.3	2.9	2.9	3.0	3.1
Appleton-Oshkosh-Neenah		225.7	222.8	225.9	5.7	5.2	5.8	5.4	2.6	2.3	2.6	2.4
Eau Claire		83.9	83.7	84.2	2.0	2.0	2.4	2.4	2.4	2.4 2.4	2.9 2.6	2.8 2.4
Green Bay		131.6	131.9 79.8	130.9 78.9	3.5 2.7	3.1 2.7	3.5 2.8	3.2 2.9	2.7 3.4	3.5	3.5	3.6
Janesville-Beloit Kenosha		79.1 80.5	77.4	80.6	2.7	2.4	2.0	2.5	3.0	2.9	2.8	3.0
La Crosse		71.6	71.6	71.7	1.6	1.7	1.8	1.8	2.2	2.3	2.5	2.5
Madison	258.8	263.8	260.7	265.7	3.6	3.5	3.7	3.6	1.4	1.3	1.4	1.4
Milwaukee-Waukesha		820.4	810.4	823.6	25.9	26.3	24.6	26.9	3.2	3.2	3.0	3.3
Racine		95.5	95.1	95.3	3.3	3.4	3.2	3.6	3.5	3.6	3.4	3.8
Sheboygan	60.4	59.9	59.9	59.8	1.3	1.3	1.4	1.3	2.2	2.2	2.3	2.2
Wausau		73.0	72.9	73.5	2.0	1.9	2.2	2.1	2.7	2.6	3.0	2.9
Wyoming		259.4	252.4 32.9	257.7	10.0 1.6	10.4 1.7	10.8 1.6	11.5 1.7	4.0 4.9	4.0 5.0	4.3 4.9	4.4 5.0
Casper		34.2 39.6	32.9	34.1 39.8	1.0	1.7	1.4	1.7	3.2	2.9	3.7	3.3
Puerto Rico	1,314.7	1,268.6	1,325.4	1,314.3	179.1	179.3	176.8	163.7	13.6	14.1	13.3	12.5
Aguadilla		48.7	52.4	50.7	10.2	9.0	10.0	8.8	19.5	18.4	19.1	17.3
Arecibo		50.8	54.1	52.6	8.1	8.0	7.9	7.1	15.1	15.8	14.6	13.5
Caguas	118.1	113.5	118.9	117.4	14.2	15.8	13.9	13.9	12.0	13.9	11.7	11.9
Mayaguez	93.7	88.9	94.2	92.2	17.6	14.1	15.6	12.4	18.8	15.8	16.6	13.4
Ponce		108.3	112.5	111.8	19.6	18.2	19.6	17.4	17.5	16.9	17.4	15.6
San Juan-Bayamon	711.2	694.9	716.5	720.0	77.4	83.0	77.5	73.6	10.9	12.0	10.8	10.2

p = preliminary.

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

when new benchmark and population information becomes available.

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

(Numbers in thousands)

Employment status,	1995		19	96			19	97			19	98	
sex, and age	IV	- 1	- 11	{} }	IV	1	11	111	IV	١	11	111	IV
TOTAL													
Civilian noninstitutional population ¹	199,352	199,776	200,280	200,850	201,457	202,396	202,835	203,367	203,936	204,395	204,905	205,483	206,098
Civilian labor force		132,958	133,612	134,244	134,951	135,704	136,136	136,494	136,807	137,337	137,366	137,656	138,285
Percent of population	66.5	66.6	66.7	66.8	67.0	67.0	67.1	67.1	67.1	67.2	67.0	67.0	67.1
Employed	62.8	125,593 62.9	126,296 63.1	127,169 63.3	127,783 63.4	128,612 63.5	129,355 63.8	129,855 63.9	130,413	130,957	131,288	131,419	132,166 64.1
Employment-population ratio ² Unemployed	7,399	7,366	7,316	7,075	7,168	7.092	6,781	6,639	6,394	6,380	6,079	6,237	6,120
Unemployment rate	5.6	5.5	5.5	5.3	5.3	5.2	5.0	4.9	4.7	4.6	4.4	4.5	4.4
Men, 16 years and over													
Civilian Industrial population	95,578	95,787 71,672	96,048 72,020	96,337 72,228	96,651 72,407	97,324 73,013	97,560	97,839	98,139 73,520	98,326 73,704	98,595 73,794	98,894 73,982	99,216
Civilian labor force Percent of population	71,332 74.6	74.8	75.0	75.0	74.9	75.0	75.0	74.9	74.9	75.0	74.8	74.8	74.9
Employed	I	67,665	68,044	68,457	68,676	69,237	69,599	69,814	70,097	70,364	70,630	70,658	71,104
Employment-population ratio ²	70.5	70.6	70.8	71.1	71.1	71.1	71.3	71.4	71.4	71.6	71.6	71.4	71.7
Agriculture	2,496	2,608	2,541	2,559	2,587	2,582	2,624	2,523	2,479	2,446	2,548	2,621	2,575
Nonagricultural industries		65,057	65,503	65,898	66,089	66,655	66,975	67,291	67,618	67,918	68,082	68,036	68,528
Unemployed Unemployment rate	3,988 5.6	4,007 5.6	3,976 5.5	3,771 5.2	3,732 5.2	3,775 5.2	3,579 4.9	3,486 4.8	3,423	3,339 4.5	3,164	3,324 4.5	3,220
Not in labor force	24,246	24,116	24,028	24,109	24,243	24,311	24,382	24,539	24,619	24,622	24,802	24,913	24,892
Men, 20 years and over												İ	
Civilian noninstitutional population ¹		88,295	88,513	88,666	88,950	89,536	89,758	89,979	90,244	90,456	90,634	90,898	91,171
Civilian labor force		67,656	67,948	68,171	68,379	68,910	69,088	69,235	69,388	69,517	69,605	69,708	70,002
Percent of population		76.6 64,387	76.8 64,695	76.9 65,139	76.9 65,382	77.0 65,866	77.0 66,216	76.9 66,454	76.9 66,599	76.9 66,863	76.8 67,084	76.7 67,086	76.8 67,496
Employed Employment-population ratio ²		72.9	73.1	73.5	73.5	73.6	73.8	73.9	73.8	73.9	74.0	73.8	74.0
Agriculture		2,398	2,314	2,341	2,377	2,364	2,410	2,345	2,301	2,265	2,364	2,401	2,353
Nonagnoultural industries	61,786	61,989	62,381	62,798	63,005	63,502	63,806	64,109	64,298	64,598	64,720	64,685	65,143
Unemployed		3,269	3,253	3,032	2,997	3,043	2,871	2,781	2,789	2,655	2,521	2,622	2.506
Unemployment rate Not in labor force	4.8 20,781	20,639	20,565	4.4 20,495	20,572	20,626	20,670	20,744	20,855	3.8 20,939	3.6	3.8	3.6 21,169
	20,701	20,000	20,000	20,.00	20,0.2	20,020	20,010	-0,,,	20,000	20,000	-,,,,,	21,100	,
Women, 16 years and over Civilian noninstitutional population ¹	103,774	103,988	104,232	104,512	104,807	105,072	105,275	105,528	105,797	106,069	106,310	106,588	106,882
Civilian labor force		61,286	61,592	62,016	62,544	62,691	62,958	63,194	63,287	63,634	63,573	63,675	63,962
Percent of population	59.0	58.9	59.1	59.3	59.7	59.7	59.8	59.9	59.8	60.0	59.8	59.7	59.8
Employed	57,864	57,927	58,253	58,712	59,107	59,374	59,756	60,041	60,316	60,593	60,658	60,762	61,062
Employment-population ratio ²	55.8	55.7	55.9	56.2	56.4	56.5	56.8	56.9	57.0	57.1	57.1	57.0	57.1
Agriculture	877 56,987	899	899 57,354	866 57,846	823 58,284	826 58,548	823 58,933	865 59,176	870 59,445	839 59,754	817 59,841	840 59,921	801 60,261
Nonagricultural industries Unemployed	3,410	57,029 3,359	3,340	3,304	3,437	3,317	3,202	3,153	2,971	3,041	2,915	2,913	2,900
Unemployment rate	5.6	5.5	5.4	5.3	5.5	5.3	5.1	5.0	4.7	4.8	4.6	4.6	4.5
Not in labor force	42,499	42,702	42,640	42,497	42,263	42,381	42,317	42,333	42,510	42,436	42,737	42,913	42,920
Women, 20 years and over	00.550	00.757	00.007	07.145	07.071	07.577	97,762	00.000	00 210	00.475	00.660	00.004	00.110
Civilian noninstitutional population ¹ Civilian labor force	96,558 57,535	96,757 57,595	96,927 57,878	97,145	97,371 58,655	97,577 58,835	59,122	98,000	98,219	98,475 59,625	98,662	98,891 59,659	99,118
Percent of population	59.6	59.5	59.7	60.0	60.2	60.3	60.5	60.6	60.5	60.5	60.4	60.3	60.5
Employed	l	54,830	55,108	55,492	55,801	56,133	56,486	56,802	57,021	57,095	57,181	57,266	57,562
Employment-population ratio ²	56.7	56.7	56.9	57.1	57.3	57.5	57.8	58.0	58.1	58.0	58.0	57.9	58.1
Agriculture	817	847	856	824	778	774	777 55,709	816	823 56,198	779 56,315	752 56,429	785 56,482	753
Nonagricultural industries Unemployed		53,982 2,766	54,252 2,771	54,668 2,758	55,023 2,855	55,359 2,702	2,636	55,985 2,569	2,429	2,530	2,398	2,393	56,809
Unemployment rate	4.9	4.8	4.8	4.7	4.9	4.6	4.5	4.3	4.1	4.2	4.0	4.0	4.0
Not in labor force		39,162	39,049	38,896	38,716	38,741	38,640	38,630	38,768	38,850	39,084	39,232	39,184
Both sexes, 16 to 19 years	44=45	44.700	14.000	15.000	15 100	15 000	15 045	15.007	15 470	15 404	15.000	15.004	45 000
Civilian noninstitutional population ¹		14,723	14,839 7,785	15,038 7,823	15,136 7,917	15,283 7,959	15,315 7,927	15,387 7,888	15,473 7,968	15,464 8,195	15,609 8,183	15,694	15,809
Civilian labor forcePercent of population		52.3	52.5	52.0	52.3	52.1	51.8	51.3	51.5	53.0	52.4	52.8	52.8
Employed	l	6,376	6,493	6,538	6,601	6,612	6,652	6,600	6,793	7,000	7,023	7,067	7,108
Employment-population ratio ²	43.5	43.3	43.8	43.5	43.6	43.3	43.4	42.9	43.9	45.3	45.0	45.0	45.0
Agriculture	266	262	270	260	255	271	260	227	226	241	249	276	270
Nonagricultural industries	6,135	6,115	6,223	6,279	6,346	6,342	6,392 1,274	6,373	6,567	6,759 1,195	6,774	6,791	6,838
Unemployed		1,331	1, 2 92	1,285	1,317	1,346 16.9	16.1	1,289	1,176	14.6	1,160	1,222	
Unemployment rate													

¹ The population figures are not adjusted for seasonal variation.

composite estimation procedures and revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1998. See the article in this issue for additional information.

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 1998, data reflect new

D-2. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted

(Numbers in thousands)

Employment status,	1995		19	96			19	997		<u></u>	19	98	
race, sex, age, and Hispanic origin	IV	ı	- 11	111	IV		II	111	IV	1	11	111	IV
WHITE				ļ		;					!		
Civilian noninstitutional population ¹	167 438	167,760	168,098	168,491	168,918	169,499	169,785	170,149	170,540	170,915	171,262	171,657	172,079
Civilian labor force		112,445	112,890	113,239		114,331	114,639	114,754		115,227	115,214		115,799
Percent of population		67.0	67.2	67.2	67.4	67.5	67.5	67.4	67.4	67.4	67.3	67.2	67.3
Employed		107,000	107,489	108,102	108,642	109,231	109,818	109,928		110,649	110,818		111,342
Employment-population ratio ²		63.8	63.9	64.2	64.3	64.4	64.7	64.6	64.8	64.7	64.7	64.6	64.7
Unemployed Unemployment rate	5,508 4.9	5,446 4.8	5,400 4.8	5,136 4.5	5,201 4.6	5,100 4.5	4,821	4,826 4.2	4,549 4.0	4,578 4.0	4,395	4,487	4,457
• •										}			
Men, 20 years and over													
Civilian labor force	57,781	58,056 77.2	58,265 77.3	58,423 77.4	58,591 77.4	58,991 77.5	59,084 77.5	59,127 77.4	59,263	59,257 77.2	59,320 77.2	59,459	59,642 77.2
Percent of population Employed	76.9	55,605	55,820	56,144	56.345	56.716	56,987	57,042	57,206	57,300	57,446	57,504	57,755
Employed Employment-population ratio ²		73.9	74.1	74.3	74.4	74.6	74.8	74.7	74.7	74.7	74.7	74.6	74.8
Unemployed		2,450	2,445	2,279	2,246	2,275	2,097	2,084	2,057	1,957	1,874	1,955	1,887
Unemployment rate	4.2	4.2	4.2	3.9	3.8	3.9	3.5	3.5	3.5	3.3	3.2	3.3	3.2
Women, 20 years and over									•				
Civilian labor force	47,819	47,849	48,036	48,216	48,546	48,649	48,826	48,921	48,978	49,035	48,983	48,968	49,119
Percent of population	1 '	59.2	59.3	59.5	59.8	59.8	60.0	60.0	59.9	59.9	59.7	59.6	59.7
Employed	45,763	45,829	46,015	46,271	46,527	46,785	47,013	47,135	47,308	47,269	47,324	47,302	47,467
Employment-population ratio ²		56.7	56.8	57.1	57.3	57.5	57.7	57.8	57.9	57.7	57.7	57.6	57.7
Unemployed		2,021	2,020	1,945	2,019	1,865	1,813	1,786	1,669	1,766	1,660	1,666	1,652
Unemployment rate	4.3	4.2	4.2	4.0	4.2	3.8	3.7	3.7	3.4	3.6	3.4	3.4	3.4
Both sexes, 16 to 19 years													į
Civilian labor force	6,522	6,540	6,589	6,599	6,705	6,691	6,729	6,707	6,758	6,935	6,910	6,976	7,038
Percent of population		56.1	56.0	55.5	56.0	55.2	55.4	55.0	55.2	56.4	55.7	55.8	56.1
Employed	5,523 47.7	5,566 47.8	5,654 48.0	5,688 47.9	5,769	5,730 47.2	5,818 47.9	5,751 47.1	5,935 48.5	6,080 49.4	6,049 48.8	6,109 48.9	6,120
Employment-population ratio ² Unemployed		975	935	912	936	961	911	956	823	855	862	867	918
Unemployment rate	1	14.9	14.2	13.8	14.0	14.4	13.5	14.3	12.2	12.3	12.5	12.4	13.0
Men	1	15.9	15.2	15.3	15.4	14.9	14.4	14.9	13.0	14.4	13.8	14.0	14.2
Women	14.0	13.8	13.1	12.2	12.4	13.8	12.6	13.6	11.3	10.1	11.1	10.7	11.8
BLACK						-							
Civilian noninstitutional population ¹	23,388	23,454	23,549	23,650	23,761	23,871	23,950	24,043	24,149	24,227	24,319	24,419	24,529
Civilian labor force	14,955	14,935	15,064	15,221	15,315	15,383	15,418	15,670	15,641	15,845	15,895	16,003	16,174
Percent of population		63.7	64.0	64.4	64.5	64.4	64.4	65.2	64.8	65.4	65.4	65.5	65.9
Employed	13,462	13,383	13,500	13,604	13,682	13,739	13,832	14,182	14,122	14,364	14,497	14,537	14,821
Employment-population ratio ² Unemployed		57.1 1,552	57.3 1,564	57.5 1,617	57.6 1,634	57.6 1,644	57.8 1,586	59.0 1,488	58.5 1,519	59.3 1,481	59.6 1,399	59.5 1,466	1,352
Unemployment rate	1	10.4	10.4	10.6	10.7	10.7	10.3	9.5	9.7	9.3	8.8	9.2	8.4
Men, 20 years and over													
Civilian labor force	6,675	6,764	6,768	6,838	6,851	6,816	6,864	6,997	6,954	7,009	7,054	7,044	7,098
Percent of population	1 '	72.2	72.0	72.6	72.3	71.7	71.9	72.9	72.1	72.5	72.7	72.3	72.5
Employed		6,111	6,123	6,208	6,226	6,208	6,263	6,441	6,384	6,464	6,548	6,492	6,610
Employment-population ratio ²		65.3	65.1	65.9	65.7	65.3	65.6	67.1	66.2	66.9	67.5	66.6	67.5
Unemployed Unemployment rate		653 9.7	645 9.5	630	625 9.1	608 8.9	601 8.8	556 7.9	570 8.2	545 7.8	506 7.2	551 7.8	487 6.9
Women, 20 years and over													
•	7,324	7,280	7,354	7,455	7,536	7,594	7,647	7,764	7,742	7,866	7,831	7,922	8.026
Civilian labor force Percent of population	1	61.8	62.3	62.9	63.3	63.5	63.8	64.5	64.0	64.8	64.3	64.8	65.4
Employed		6,671	6,737	6,793	6,846	6,879	6,967	7,111	7,096	7,221	7,198	7,305	7,436
Employed		56.6	57.0	57.3	57.5	57.6	58.1	59.1	58.7	59.5	59.1	59.8	60.6
Unemployed	595	609	617	662	690	715	680	653	646	645	633	617	590
Unemployment rate		8.4	8.4	8.9	9.2	9.4	8.9	8.4	8.3	8.2	8.1	7.8	7.4

See footnotes at end of table.

D-2. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted — Continued

(Numbers in thousands)

Employment status,	1995		19	96			19	97		- 	19	98	
race, sex, age, and Hispanic origin	IV	-	11	=	ľ		li I	III	IV	1	11	III	iV
BLACK—Continued Both sexes, 16 to 19 years													
Civilian labor force Percent of population Employed Employment-population ratio ² Unemployed Unemployed We Men Men Wornen HISPANIC ORIGIN	956 41.0 641 27.5 315 33.0 35.2 30.8	891 38.5 601 26.0 290 32.6 34.4 30.8	942 40.3 640 27.3 303 32.1 34.6 29.6	929 39.0 604 25.3 325 35.0 39.6 30.2	928 38.9 610 25.5 318 34.3 38.6 30.2	973 40.4 651 27.1 321 33.0 39.3 27.3	907 37.6 602 24.9 305 33.6 38.3 28.9	909 37.7 630 26.1 279 30.7 35.1 26.9	946 39.1 642 26.6 303 32.1 32.7 31.5	969 40.0 678 28.0 291 30.0 31.4 28.8	1,011 41.4 751 30.8 260 25.7 26.3 25.2	1,037 42.3 740 30.2 297 28.7 30.9 26.5	1,050 42.7 775 31.5 275 26.2 31.6 21.1
Civilian noninstitutional population ¹	18,845 12,411 65.9 11,241 59.7 1,170 9.4	18,977 12,539 66.1 11,345 59.8 1,193 9.5	19,132 12,569 65.7 11,399 59.6 1,170 9.3	19,292 12,825 66.5 11,718 60.7 1,108 8.6	19,452 13,153 67.6 12,099 62.2 1,054 8.0	20,067 13,662 68.1 12,536 62.5 1,126 8.2	20,236 13,672 67.6 12,602 62.3 1,071 7.8	20,408 13,878 68.0 12,838 62.9 1,040 7.5	20,574 13,961 67.9 12,929 62.8 1,032 7.4	20,797 14,140 68.0 13,155 63.3 984 7.0	20,975 14,347 68.4 13,340 63.6 1,007 7.0	21,160 14,347 67.8 13,299 62.8 1,048 7.3	21,347 14,438 67.6 13,370 62.6 1,068 7,4

1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1998. See the article in this issue for additional information.

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

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

(Numbers in thousands)

	1995		19	96			19	97			19	98	
Educational attainment	IV	_	11	111	1V	1	=	Ш	IV	1	=	111	١٧
Less than a high school diploma													
Civilian noninstitutional population ¹	29.952	30.482	30.538	29,787	29.859	30.269	30,069	29,318	29,372	29.487	29,878	29.174	28.964
Civilian labor force		12.344	12.374	12,400	12,470	12.629	12,533		12,540	12.569	12.679	12.540	12.457
Percent of population	40.6	40.5	40.5	41.6	41.8	41.7	41.7	42.8	42.7	42.6	42.4	43.0	43.0
Employed		11,236	11,243	11,349	11,453	11,526	11,497	11,576	11,596	11,669	11,788		11.585
Employment-population ratio	36.8	36.9	36.8	38.1	38.4	38.1	38.2	39.5	39.5	39.6	39.5	40.0	40.0
Unemployed	1,118	1,108	1,131	1,050	1,018	1,103	1,035	978	943	900	891	884	872
Unemployment rate	9.2	9.0	9.1	8.5	8.2	8.7	8.3	7.8	7.5	7.2	7.0	7.0	7.0
Oriemployment rate	3.2	3.0	3.1	0.5	0.2	0.7	0.0	'.5	'.5	7.2	7.0	7.0	′.0
High school graduates, no college ²			. :								:		
Civilian noninstitutional population ¹	55.973	56,167	56.344	56,322	56.834	57,247	57,424	57,557	57,467	57.636	57.545	57.564	57.351
Civilian labor force	36.668	36.785	36,907	37,067	37,356	37.746	37,768	37,866	37.698	37,775	37,357	37,315	37.415
Percent of population	65.5	65.5	65.5	65.8	65.7	65.9	65.8	65.8	65.6	65.5	64.9	64.8	65.2
Employed		35.042	35.167	35,381	35,630	36,067	36,147	36,275	36.181	36,245	35.896	35,815	35,959
Employment-population ratio	62.5	62.4	62.4	62.8	62.7	63.0	62.9	63.0	63.0	62.9	62.4	62.2	62.7
Unemployed	1,710	1,743	1.740	1,686	1,726	1,680	1,621	1,590	1,517	1,530	1,461	1,500	
Unemployment rate	4.7	4.7	4.7	4.5	4.6	4.4	4.3	4.2	4.0	4.0	3.9	4.0	3.9
Less than a bachelor's degree ³	!												
Civilian noninstitutional population ¹	41.884	41.215	41.350	42.312	41.876	41,506	41,641	42,266	42.372	42.186	42.069	41.968	42.819
Civilian labor force	30.959	30,822	31.107	31,469	31,202	31,190	31,268	31,477	31,401	31,421	31,376	31,203	31.625
Percent of population	73.9	74.8	75.2	74.4	74.5	75.1	75.1	74.5	74.1	74.5	74.6	74.3	73.9
Employed	29.748	29.648	29.930	30,304	30.059	30,095	30,264	30,468		30.426	30,463	30,283	30.720
Employment-population ratio	71.0	71.9	72.4	71.6	71.8	72.5	72.7	72.1	71.8	72.1	72.4	72.2	71.7
Unemployed	1,211	1,173	1,177	1,165	1,143	1,095	1,005	1,010	970	994	913	920	906
Unemployment rate	3.9	3.8	3.8	3.7	3.7	3.5	3.2	3.2	3.1	3.2	2.9	2.9	2.9
College graduates													
Civilian and additional appropriation 1	39,195	20 644	20.779	40.074	40 400	40.667	40,987	41,391	41.752	42.099	42.250	42.470	43,471
Civilian noninstitutional population ¹	31.581	39,644 31,850	39,778 32.061	40,074 32,249	40,408 32,555	32,688	33,100			33.758	34,116	43,470 34,763	
Civilian labor force	80.6	80.3	80.6	80.5	80.6	80.4	80.8	80.4	80.3	80.2	80.7	80.0	79.9
Percent of population	30,839	31,118	31,327	31,550	31,826	32,016	32,408			33,130	33,529	34,172	79.9 34,078
Employed		78.5	78.8	78.7	78.8	78.7	79.1	78.7	78.9	78.7	79.4	78.6	78.4
Employment-population ratio	78.7 742	733	734	699	729	672	692	699	602	627	79.4 587	78.6 592	645
Unemployed	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	1.8	1.9	1.7	1.7	1.9
Unemployment rate	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	1.6	1.9	1.7	1.7	1.9

¹ The population figures are not adjusted for seasonal variation.

procedures and revised population controls used in the household survey. Seasonally adjusted data have been revised based on the experience through December 1998. See the article in this issue for additional information.

Includes high school diploma or equivalent.

Includes the categories, some college, no degree; and associate degree. NOTE: Beginning in January 1998, data reflect new composite estimation

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,	1995		19	96			19	97		<u> </u>	19	98	
and age	١٧	1	11	III	IV	ı	П	181	IV	1	l1	161	IV
EMPLOYED													
Full-time workers	102,206	102,406	103,117	103,915	104,704	105,242	106,084	106,800	107,227	107.698	107,929	108,173	109.020
Men, 16 years and over	60,025	60,149	60,556	61,019	61,324	61,740	62,134	62,446	62,712	62,843	63,069	63,185	63,657
Men, 20 years and over	58,779	58,927	59,350	59,791	60,093	60,488	60,855	61,163	61,384	61,560	61,731	61,816	62,242
Women, 16 years and over Women, 20 years and over	42,175 41,358	42,274 41,482	42,555 41,723	42,882 42.087	43,383 42,508	43,470 42,602	43,936 43,102	44,393 43,482	44,503 43,578	44,775 43,822	44,836 43,889	45,095 44,034	45,349
Both sexes, 16 to 19 years	2,069	1,998	2,043	2,037	2,103	2,153	2,127	2,155	2,265	2,317	2,310	2,322	44,431 2,347
Part-time workers	23,063	23,126	23,130	23,307	23,147	23,362	23,213	23,038	23,294	23,315	23,302	23,163	23,263
Men, 16 years and over	7,370	7,495	7,444	7,458	7,401	7,469	7,422	7,379	7,449	7,505	7,516	7,491	7,511
Men, 20 years and over Women, 16 years and over	5,335 15.693	5,421 15,617	5,303 15,706	5,387 15,843	5,324 15,743	5,357 15,872	5,316 15,816	5,319 15,664	5,256	5,296	5,304	5,289	5,300
Women, 20 years and over	13,384	13,336	13,379	13,405	13,308	13,531	13,375	13,308	15,842 13,460	15,782 13,282	15,811 13,284	15,684 13,214	15,752 13,152
Both sexes, 16 to 19 years	4,345	4,369	4,448	4,514	4,515	4,474	4,522	4,411	4,577	4,737	4,714	4,660	4,811
UNEMPLOYED													
Looking for full-time work	5,925	5,917	5,880	5,622	5,764	5,689	5,439	5,287	5,113	5,073	4.852	4,926	4.796
Men, 16 years and over	3,361	3,366	3,358	3,176	3,183	3,177	3,027	2,926	2,904	2,710	2,665	2,783	2,661
Men, 20 years and over	2,979	3,009	2,990	2,785	2,775	2,787	2,642	2,541	2,563	2,435	2,318	2,403	2,293
Women, 16 years and over Women, 20 years and over	2,567 2,280	2,548 2,254	2,529 2,277	2,457 2,206	2,576 2,304	2,500	2,429	2,373	2,233	2,302	2,215	2,148	2,175
Both sexes, 16 to 19 years	667	653	612	630	2,304 685	2,206 697	2,153 645	2,108 639	1,946 604	2,059 579	1,953 580	1,934 590	1,918 586
Looking for part-time work	1,473	1,463	1,441	1,438	1,404	1,421	1,343	1,328	1,279	1,329	1,225	1,293	1,322
Men, 16 years and over	639	624	635	602	557	578	580	569	532	562	538	554	584
Men, 20 years and over	253	257	267	245	230	257	232	231	230	219	204	213	217
Women, 16 years and over	833	831	820	832	834	840	785	757	733	760	719	734	723
Women, 20 years and over Both sexes, 16 to 19 years	511 708	522 684	498 676	545 648	535 639	512 653	486 625	455 643	469 580	491 619	445 575	455 625	439 665
UNEMPLOYMENT RATES ¹													
Full-time workers	5.5	5.5	5.4	5.1	5.2	5.1	4.9	4.7	4.6	4.5	4.3	4.4	4.2
Men, 16 years and over	5.3	5.3	5.3	4.9	4.9	4.9	4.6	4.5	4.4	4.1	4.1	4.2	4.0
Men, 20 years and over	4.8	4.9	4.8	4.5	4.4	4.4	4.2	4.0	4.0	3.8	3.6	3.7	3.6
Women, 16 years and over	5.7	5.7	5.6	5.4	5.6	5.4	5.2	5.1	4.8	4.9	4.7	4.5	4.6
Women, 20 years and over	5.2	5.2	5.2	5.0	5.1	4.9	4.8	4.6	4.3	4.5	4.3	4.2	4.1
Both sexes, 16 to 19 years	24.4	24.6	23.1	23.6	24.6	24.4	23.3	22.9	21.1	20.0	20.1	20.2	20.0
Part-time workers	6.0	5.9	5.9	5.8	5.7	5.7	5.5	5.5	5.2	5.4	5.0	5.3	5.4
Men, 16 years and over	8.0	7.7	7.9	7.5	7.0	7.2	7.2	7.2	6.7	7.0	6.7	6.9	7.2
Men, 20 years and over Women, 16 years and over	4.5 5.0	4.5 5.1	4.8 5.0	4.4 5.0	4.1 5.0	4.6 5.0	4.2 4.7	4.2 4.6	4.2	4.0	3.7	3.9	3.9
Women, 20 years and over	3.7	3.8	3.6	3.9	3.9	3.6	3.5	3.3	4.4 3.4	4.6 3.6	4.3 3.2	4.5 3.3	4.4 3.2
Both sexes, 16 to 19 years	14.0	13.5	13.2	12.5	12.4	12.7	12.1	12.7	11.3	11.6	10.9	11.8	12.1

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 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey. Data have been revised based on the experience through December 1998. See the article in this issue for additional information.

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

(In thousands)

	1995		19	96			19	97			19	98	
Category	IV	ı	11	111	IV	1	II	III	IV	ı	II	III	IV
MARITAL STATUS													
Total Married men, spouse present Married women, spouse present Women who maintain families	125,208 42,097 32,126 7,236	125,593 42,172 32,129 7,333	126,296 42,446 32,334 7,323	127,169 42,518 32,647 7,321	127,783 42,522 32,504 7,475	128,612 42,569 32,686 7,612	129,355 42,481 32,565 7,813	129,855 42,659 32,873 7,874	130,413 42,843 32,886 7,799	130,957 42,851 32,840 7,824	131,288 42,689 32,851 7,864	131,419 42,965 32,760 7,929	132,166 43,175 33,028 7,999
OCCUPATION													}
Managerial and professional specialty Technical, sales, and administrative	35,696	35,844	36,381	36,651	37,102	37,515	37,510	37,735	37,980	38,256	38,695	39,172	39,622
support Service occupations Precision production, craft, and repair Operators, fabricators, and laborers Farming, forestry, and fishing	37,284 16,878 13,549 18,146 3,621	37,393 16,855 13,592 18,170 3,735	37,630 17,221 13,421 18,174 3,528	37,790 17,339 13,671 18,181 3,535	37,902 17,273 13,703 18,270 3,492	38,111 17,232 13,981 18,232 3,530	38,232 17,410 14,196 18,486 3,571	38,352 17,697 14,112 18,474 3,470	38,533 17,791 14,231 18,407 3,442	38,537 17,928 14,406 18,436 3,407	38,545 17,720 14,599 18,270 3,498	38,611 17,793 14,179 18,081 3,565	38,389 17,897 14,476 18,238 3,513
CLASS OF WORKER													
Agriculture: Wage and salary workers Self-employed workers Unpaid family workers	1,821 1,515 38	1,899 1,568 44	1,892 1,496 46	1,830 1,521 69	1,868 1,485 62	1,927 1,438 47	1,947 1,435 55	1,858 1,474 49	1,834 1,475 51	1,923 1,331 40	1,922 1,394 42	2,089 1,335 34	2,055 1,297 36
Nonagricultural industries: Wage and salary workers Private industries Private households Other industries Government Self-employed workers Unpaid family workers	94,607 961 93,646 18,225 8,922	112,983 94,869 908 93,961 18,114 8,959	113,773 95,457 868 94,589 18,315 8,967	114,726 96,484 969 95,515 18,242 8,904 130	115,209 97,005 968 96,036 18,204 9,060 145	115,767 97,651 909 96,742 18,116 9,272 132	116,647 98,609 910 97,699 18,038 9,103	117,454 99,222 921 98,302 18,231 8,919	118,066 99,922 921 99,001 18,144 8,936 99	118,664 100,420 998 99,421 18,244 8,872	118,763 100,477 983 99,493 18,287 9,016 104	118,878 100,494 918 99,575 18,385 9,037 89	119,791 101,178 953 100,225 18,613 8,924
PERSONS AT WORK PART TIME ¹	100	'0'	110		'	102					"		
All industries: Part time for economic reasons	4,448 2,550 1,618 17,540	4,304 2,424 1,567 17,563	4,372 2,372 1,638 17,701	4,365 2,493 1,580 18,012	4,237 2,265 1,648 17,931	4,207 2,364 1,515 18,114	4,146 2,348 1,473 18,177	4,003 2,189 1,499 17,999	3,920 2,233 1,389 18,266	3,915 2,194 1,400 18,423	3,767 2,132 1,291 18,486	3,560 2,077 1,190 18,643	3,387 1,956 1,147 18,658
Nonagricultural industries: Part time for economic reasons Slack work or business conditions Could only find part-time work Part time for noneconomic reasons	4,287 2,446 1,582 16,926	4,089 2,282 1,539 16,907	4,176 2,259 1,605 17,084	4,171 2,364 1,551 17,402	4,068 2,149 1,618 17,306	4,017 2,249 1,480 17,495	3,936 2,211 1,437 17,616	3,828 2,078 1,467 17,445	3,733 2,120 1,353 17,659	3,747 2,081 1,374 17,819	3,611 2,048 1,259 17,867	3,379 1,973 1,156 18,058	3,234 1,864 1,119 18,124

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data have been revised based on the experience through December 1998. 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)

Ann and any	1995		19	96			19	97			19	98	
Age and sex	IV	1	11	18	IV	-	П	111	IV	_	11	III	IV
Total, 16 years and over	125,208	125,593	126,296	127,169	127,783	128,612	129,355	129,855	130,413	130,957	131,288	131,419	132,166
16 to 24 years	18,587	18,525	18,650	18,617	18,776	18,935	19,030	19,010	19,208	19,528	19,584	19,546	19,774
16 to 19 years	6,402	6,376	6,493	6,538	6,601	6,612	6,652	6,600	6,793	7,000	7,023	7,067	7,108
16 to 17 years	2,551	2,574	2,651	2,663	2,700	2,630	2,649	2,622	2,695	2,796	2,751	2,757	2,746
18 to 19 years	3,845	3,793	3,856	3,875	3,898	3,972	4,010	3,968	4,103	4,203	4,282	4,309	4,364
20 to 24 years	12,186	12,148	12,157	12,079	12,175	12,323	12,378	12,410	12,415	12,528	12,561	12,479	12,666
25 years and over	106,618	107,052	107,667	108,553	109,008	109,666	110,342	110,844	111,206	111,419	111,720	111,871	112 396
25 to 54 years	91,375	91,809	92,317	93,012	93,425	93,848	94,328	94,828	94,844	95,066	95,161	95,226	95,585
55 years and over	15,235	15,259	15,314	15,565	15,573	15,853	15,970	16,046	16,350	16,386	16,511	16,679	16,808
Men, 16 years and over	67,343	67,665	68,044	68,457	68,676	69,237	69,599	69,814	70,097	70,364	70,630	70,658	71,104
16 to 24 years	9,767	9,739	9,752	9,729	9,745	9,910	9,976	9.933	9.994	10.137	10,185	10,155	10,308
16 to 19 years	3,268	3,279	3,348	3,318	3,294	3,371	3,383	3,360	3,498	3,502	3,546	3,572	3,608
16 to 17 years	1,290	1,298	1,332	1,307	1,338	1,335	1,343	1,350	1,395	1,428	1,398	1,389	1,378
18 to 19 years	1,976	1,978	2.034	2.006	1.951	2,032	2,050	1,995	2,105	2.082	2.160	2,176	2.225
20 to 24 years	6,499	6,461	6,404	6,410	6,451	6,539	6,593	6,573	6,496	6,635	6.638	6.583	6,701
25 years and over	57,571	57,909	58,299	58,748	58,924	59,318	59,627	59,901	60,093	60,218	60,450	60,523	60,788
25 to 54 years	49,097	49,382	49,664	50,035	50,237	50,480	50,680	50.918	51,015	51,175	51,255	51,201	51.469
55 years and over	8,497	8,533	8,620	8,699	8,706	8,856	8,923	8,974	9,097	9,066	9,164	9,317	9,342
Women, 16 years and over	57,864	57,927	58,253	58,712	59,107	59,374	59,756	60,041	60,316	60,593	60,658	60,762	61,062
16 to 24 years	8,821	8,785	8,898	8,888	9,030	9,025	9,054	9,077	9,214	9,392	9.399	9,391	9.465
16 to 19 years	3,134	3,098	3,145	3,220	3,307	3,241	3,269	3,239	3,295	3,498	3,477	3,495	3,500
16 to 17 years	1,262	1,276	1,319	1,356	1,362	1,295	1,306	1,272	1,300	1.369	1,353	1.368	1.368
18 to 19 years	1,869	1,815	1,822	1,868	1,947	1,940	1,960	1,973	1,999	2,121	2,122	2,133	2,139
20 to 24 years	5,687	5,688	5,753	5,668	5,724	5,784	5,785	5,837	5,920	5.893	5,922	5,895	5.965
25 years and over	49,047	49,143	49,367	49,805	50,084	50,348	50,715	50,943	51,113	51,201	51,270	51,348	51,609
25 to 54 years	42,278	42,428	42,653	42,978	43,188	43,368	43,647	43,910	43,829	43,890	43,906	44,025	44,116
55 years and over	6,737	6,726	6,694	6,866	6,867	6,997	7,047	7,072	7,253	7,321	7,347	7,362	7,466

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

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

(In thousands)

Age and sex	1995		19	96			19	97			19	98	
Age and sex	IV	ı	#	HI	IV	ı	II.	Ш	IV	1	=	III	IV
Total, 16 years and over	7,399	7,366	7,316	7,075	7,168	7,092	6,781	6,639	6,394	6,380	6,079	6,237	6,120
16 to 24 years	2,601	2,625	2,545	2,478	2,526	2,555	2,436	2,370	2,338	2,349	2,222	2,344	2,215
16 to 19 years	1,370	1,331	1,292	1,285	1,317	1,346	1,274	1,289	1,176	1,195	1,160	1,222	1,242
16 to 17 years	656	628	630	618	595	605	590	591	569	593	550	558	592
18 to 19 years	718	697	668	666	725	733	690	696	610	594	617	665	654
20 to 24 years	1,232	1,294	1,253	1,193	1,209	1,209	1,161	1,081	1,163	1,153	1,062	1,122	972
25 years and over	4,790	4,742	4,776	4,603	4,629	4,542	4,348	4,280	4,043	4,042	3,854	3,896	3,891
25 to 54 years	4,219	4,191	4,198	4,054	4,125	4,053	3,826	3,774	3,579	3,599	3,402	3,424	3,397
55 years and over	571	576	552	541	511	511	500	501	468	461	430	465	500
Men, 16 years and over	3,988	4,007	3,976	3,771	3,732	3,775	3,579	3,486	3,423	3,339	3,164	3,324	3,220
16 to 24 years	1,435	1,448	1,440	1,368	1,365	1,388	1,314	1,316	1,300	1,294	1,225	1,316	1,231
16 to 19 years	764	738	723	739	735	732	708	704	634	685	643	702	714
16 to 17 years	358	350	351	362	327	336	328	310	310	335	311	326	350
18 to 19 years	409	383	381	372	410	392	387	389	324	347	341	370	363
20 to 24 years	672	710	717	629	630	656	606	611	667	609	582	615	516
25 years and over	2,550	2,544	2,547	2,412	2,361	2,376	2,276	2,180	2,114	2,038	1,946	2,015	1.982
25 to 54 years	2,240	2,257	2,232	2,099	2,078	2.093	1,980	1,902	1,828	1,776	1,688	1,742	1,693
55 years and over	307	303	297	312	284	295	280	278	289	274	242	274	291
Women, 16 years and over	3,410	3,359	3,340	3,304	3,437	3,317	3,202	3,153	2,971	3,041	2,915	2,913	2,900
16 to 24 years	1,166	1,177	1,105	1,109	1,161	1,167	1,122	1,054	1,038	1,055	997	1.028	984
16 to 19 years	606	593	569	546	582	614	567	584	542	511	517	520	528
16 to 17 years	298	278	279	257	268	269	261	281	259	258	238	232	242
18 to 19 years	309	314	287	294	316	342	303	307	286	247	276	294	291
20 to 24 years	560	584	536	563	579	552	555	470	496	544	480	508	456
25 years and over	2,239	2,197	2,229	2,191	2,269	2,166	2,072	2,100	1,929	2,004	1,908	1,881	1,910
25 to 54 years	1,979	1,934	1,966	1,955	2,047	1,959	1,846	1,872	1,750	1,823	1,713	1,682	1,704
55 years and over	264	274	255	229	227	216	220	223	179	187	188	192	209

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

HOUSEHOLD DATA SEASONALLY ADJUSTED QUARTERLY AVERAGES

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

(Percent)

Age and sex	1995		19	96			19	97			19	98	
Age and sex	IV	Į.	=	Ħ	IV	_	=	111	IV	_	=	Ш	IV
Total, 16 years and over	5.6	5.5	5.5	5.3	5.3	5.2	5.0	4.9	4.7	4.6	4.4	4.5	4.4
16 to 24 years	12.3	12.4	12.0	11.7	11.9	11.9	11.3	11.1	10.9	10.7	10.2	10.7	10.1
16 to 19 years	17.6	17.3	16.6	16.4	16.6	16.9	16.1	16.3	14.8	14.6	14.2	14.7	14.9
16 to 17 years	20.5	19.6	19.2	18.8	18.0	18.7	18.2	18.4	17,4	17.5	16.7	16.8	17.7
18 to 19 years	15.7	15.5	14.8	14.7	15.7	15.6	14.7	14.9	12.9	12.4	12.6	13.4	13.0
20 to 24 years	9.2	9.6	9.3	9.0	9.0	8.9	8.6	8.0	8.6	8.4	7.8	8.3	7.1
25 years and over	4.3	4.2	4.2	4.1	4.1	4.0	3.8	3.7	3.5	3.5	3.3	3.4	3.3
25 to 54 years	4.4	4.4	4.3	4.2	4.2	4.1	3.9	3.8	3.6	3.6	3.5	3.5	3.4
55 years and over	3.6	3.6	3.5	3.4	3.2	3.1	3.0	3.0	2.8	2.7	2.5	2.7	2.9
Men, 16 years and over	5.6	5.6	5.5	5.2	5.2	5.2	4.9	4.8	4.7	4.5	4.3	4.5	4.3
16 to 24 years	12.8	12.9	12.9	12.3	12.3	12.3	11.6	11.7	11.5	11.3	10.7	11.5	10.7
16 to 19 years	18.9	18.4	17.8	18.2	18.2	17.8	17.3	17.3	15.3	16.4	15.3	16.4	16.5
16 to 17 years	21.7	21.2	20.8	21.7	19.6	20.1	19.6	18.7	18.2	19.0	18.2	19.0	20.3
18 to 19 years	17.2	16.2	15.8	15.6	17.4	16.2	15.9	16.3	13.3	14.3	13.6	14.5	14.0
20 to 24 years	9.4	9.9	10.1	8.9	8.9	9.1	8.4	8.5	9.3	8.4	8.1	8.5	7.2
25 years and over	4.2	4.2	4.2	3.9	3.9	3.9	3.7	3.5	3.4	3.3	3.1	3.2	3.2
25 to 54 years	4.4	4.4	4.3	4.0	4.0	4.0	3.8	3.6	3.5	3.4	3.2	3.3	3.2
55 years and over	3.5	3.4	3.3	3.5	3.2	3.2	3.0	3.0	3.1	2.9	2.6	2.9	3.0
Women, 16 years and over	5.6	5.5	5.4	5.3	5.5	5.3	5.1	5.0	4.7	4.8	4.6	4.6	4.5
16 to 24 years	11.7	11.8	11.0	11.1	11.4	11.4	11.0	10.4	10.1	10.1	9.6	9.9	9.4
16 to 19 years	16.2	16.1	15.3	14.5	15.0	15.9	14.8	15.3	14.1	12.7	13.0	13.0	13.1
16 to 17 years	19.1	17.9	17.5	15.9	16.4	17.2	16.7	18.1	16.6	15.9	15.0	14.5	15.0
18 to 19 years	14.2	14.7	13.6	13.6	14.0	15.0	13.4	13.5	12.5	10.4	11.5	12.1	12.0
20 to 24 years	9.0	9.3	8.5	9.0	9.2	8.7	8.8	7.5	7.7	8.5	7.5	7.9	7.1
25 years and over	4.4	4.3	4.3	4.2	4.3	4.1	3.9	4.0	3.6	3.8	3.6	3.5	3.6
25 to 54 years	4.5	4.4	4.4	4.4	4.5	4.3	4.1	4.1	3.8	4.0	3.8	3.7	3.7
55 years and over	3.8	3.9	3.7	3.2	3.2	3.0	3.0	3.1	2.4	2.5	2.5	2.5	2.7

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

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

(Percent)

Ontone	1995		19	96			19	97			19	98	
Category	IV	1	=	111	IV	١	11	111	IV	ı	11	III	IV
CHARACTERISTIC													
Fotal	5.6	5.5	5.5	5.3	5.3	5.2	5.0	4.9	4.7	4.6	4.4	4.5	4.4
Men, 20 years and over	4.8	4.8	4.8	4.4	4.4	4.4	4.2	4.0	4.0	3.8	3.6	3.8	j 3.€
Women, 20 years and over	4.9	4.8	4.8	4.7	4.9	4.6	4.5	4.3	4.1	4.2	4.0	4.0	4.0
Both sexes, 16 to 19 years	17.6	17.3	16.6	16.4	16.6	16.9	16.1	16.3	14.8	14.6	14.2	14.7	14.9
White	4.9	4.8	4.8	4.5	4.6	4.5	4.2	4.2	4.0	4.0	3.8	3.9	3.8
Black and other	9.3	9.3	9.3	9.2	9.3	9.3	9.1	8.3	8.4	8.2	7.6	7.8	7.4
Black		10.4	10.4	10.6	10.7	10.7	10.3	9.5	9.7	9.3	8.8	9.2	8.4
Hispanic origin	9.4	9.5	9.3	8.6	8.0	8.2	7.8	7.5	7.4	7.0	7.0	7.3	7.4
Married men, spouse present	3.2	3.1	3.0	3.0	3.0	2.8	2.7	2.6	2.5	2.5	2.3	2.3	2.3
Married women, spouse present	3.8	3.7	3.7	3.4	3.6	3.3	3.2	3.1	2.9	3.1	2.8	2.9	2.1
Women who maintain families	7.5	7.6	8.0	8.7	8.6	8.7	7.9	7.9	7.8	7.6	7.4	7.1	6.
OCCUPATION ¹													
Managerial and professional specialty	2.5	2.4	2.4	2.3	2.3	2.1	2.0	2.0	1.8	1.9	1.8	1.8	1.3
Technical, sales, and administrative support		4.5	4.4	4.5	4.6	4.3	4.1	4.1	4.0	4.0	3.8	3.8	3.8
Precision production, craft, and repair		5.7	5.5	5.3	5.4	5.0	4.9	4.7	4.8	4.4	4.2	4.4	3.
Operators, fabricators, and laborers		8.3	8.2	7.6	7.7	8.0	7.4	7.5	7.0	6.5	6.6	6.8	6.
Farming, forestry, and fishing	7.9	7.7	8.3	6.8	7.3	7.3	7.2	6.7	7.1	6.7	6.3	6.5	6.4
INDUSTRY]		i										
Nonagricultural private wage and salary workers	5.8	5.7	5.6	5.4	5.4	5.3	5.1	5.0	4.7	4.7	4.5	4.7	4.5
Goods-producing industries		6.3	6.2	5.7	6.0	5.7	5.3	5.2	4.9	4.9	4.6	4.9	4.0
Mining		5.6	4.6	4.4	5.3	4.3	3.0	4.0	3.6	3.3	2.8	3.5	3.0
Construction		10.6	10.2	9.3	9.7	9.5	8.8	8.7	8.5	8.2	7.5	7.6	6
Manufacturing		5.0	4.9	4.5	4.8	4.5	4.3	4.1	3.8	3.8	3.7	4.1	3.
Durable goods	4.5	4.8	4.7	4.0	4.6	4.0	3.6	3.3	3.2	3.3	3.1	3.8	3.
Nondurable goods		5.3	5.3	5.2	5.1	5.2	5.3	5.3	4.6	4.6	4.6	4.6	4.
Service-producing industries		5.5	5.4	5.3	5.2	5.2	4.9	4.9	4.7	4.6	4.5	4.6	4.
Transportation and public utilities		3.9	4.4	4.0	4.1	4.0	3.2	3.6	3.2	3.4	3.3	3.4	3.
Wholesale and retail trade	6.4	6.6	6.5	6.3	6.2	6.4	6.3	6.1	6.0	5.7	5.4	5.6	5.
Finance, insurance, and real estate		2.5	2.6	2.8	2.9	3.2	3.1	3.1	2.6	2.5	2.2	2.4	2.
Services	5.5	5.6	5.5	5.3	5.1	4.9	4.6	4.5	4.4	4.6	4.6	4.6	4.
Government workers	2.9	2.8	3.0	2.9	3.0	2.9 8.8	2.6	2.6	2.3	2.5	2.2	2.3	2.
Agricultural wage and salary workers	11.6	10.6	10.4	9.7	10.0	5.8	9.2	9.0	9.3	9.3	8.2	7.8	7.

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 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey. Data have been revised based on the experience through December 1998. 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	1995		19	96			19	97			19	98	
neason	IV	1	II.	Ш	IV	ı	11	111	IV	ı	II.	III	IV
NUMBER OF UNEMPLOYED													
Job losers and persons who completed temporary jobs On temporary layoff	3,517 1,034 2,483 832 2,488 576	3,526 1,056 2,470 785 2,463 592	3,502 1,079 2,423 710 2,572 557	3,204 961 2,243 759 2,498 581	3,211 967 2,244 843 2,525 593	3,172 967 2,205 812 2,503 612	3,069 953 2,116 806 2,392 551	2,956 864 2,092 843 2,238 567	2,916 916 2,000 711 2,214 548	2,868 888 1,980 770 2,203 535	2,787 797 1,990 715 2,103 513	2,855 926 1,929 744 2,119 494	2,775 849 1,926 705 2,101 538
PERCENT DISTRIBUTION													
Job losers and persons who completed temporary jobs On temporary layoff	47.4 13.9 33.5 11.2 33.6 7.8	47.9 14.3 33.5 10.7 33.4 8.0	47.7 14.7 33.0 9.7 35.0 7.6	45.5 13.6 31.9 10.8 35.5 8.2	44.8 13.5 31.3 11.7 35.2 8.3	44.7 13.6 31.1 11.4 35.3 8.6	45.0 14.0 31.0 11.8 35.1 8.1	44.8 13.1 31.7 12.8 33.9 8.6	45.6 14.3 31.3 11.1 34.7 8.6	45.0 13.9 31.1 12.1 34.5 8.4	45.6 13.0 32.5 11.7 34.4 8.4	46.0 14.9 31.1 12.0 34.1 8.0	45.3 13.9 31.5 11.5 34.3 8.8
Job losers and persons who completed temporary jobs Job leavers	2.7 .6 1.9 .4	2.7 .6 1.9 .4	2.6 .5 1.9 .4	2.4 .6 1.9 .4	2.4 .6 1.9 .4	2.3 .6 1.8 .5	2.3 .6 1.8 .4	2.2 .6 1.6 .4	2.1 .5 1.6 .4	2.1 .6 1.6 .4	2.0 .5 1.5 .4	2.1 .5 1.5 .4	2.0 .5 1.5 .4

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

have been revised based on the experience through December 1998. See the article in this issue for additional information.

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

(Numbers in thousands)

Donation	1995		19	96			19	97			1998			
Duration	IV	1	Н	111	IV	1	11	Ξ	IV	ı	Ш	III	IV	
NUMBER OF UNEMPLOYED														
Less than 5 weeks	2,729	2,669	2,616	2,580	2,673	2,617	2,517	2,491	2,518	2,637	2,596	2,639	2,638	
	2,381	2,313	2,287	2,238	2,314	2,314	2,135	2,093	1,977	1,959	1,973	1,966	1,906	
	2,319	2,363	2,402	2,270	2,200	2,121	2,119	2,074	1,914	1,781	1,537	1,629	1,596	
	1,086	1,120	1,047	997	1,032	1,005	1,048	997	917	827	703	775	746	
	1,233	1,243	1,355	1,273	1,169	1,116	1,071	1,077	997	954	834	854	850	
Average (mean) duration, in weeks Median duration, in weeks	16.2	16.6	17.4	17.0	16.0	15.7	15.5	16.1	15.9	15.2	14.4	14.1	14.2	
	8.1	8.2	8.5	8.4	7.9	8.0	8.1	8.0	7.6	7.1	6.5	6.7	6.4	
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	
	36.7	36.3	35.8	36.4	37.2	37.1	37.2	37.4	39.3	41.3	42.5	42.3	43.0	
	32.0	31.5	31.3	31.6	32.2	32.8	31.5	31.4	30.8	30.7	32.3	31.5	31.0	
	31.2	32.2	32.9	32.0	30.6	30.1	31.3	31.2	29.9	27.9	25.2	26.1	26.0	
	14.6	15.3	14.3	14.1	14.4	14.2	15.5	15.0	14.3	13.0	11.5	12.4	12.2	
	16.6	16.9	18.6	18.0	16.3	15.8	15.8	16.2	15.6	15.0	13.7	13.7	13.8	

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey. Data

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

(Numbers in thousands)

	To	tal	W	nite	Bla	ick	Hispani	c origin
Employment status, sex, and age	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
TOTAL								
Civilian noninstitutional population	203,936	206,098	170,540	172,079	24,149	24,529	20,574	21,347
Civilian labor force	136,773	138,280	114,976	115,801	15,645	16,190	13,984	14,459
Percent of population	67.1	67.1	67.4 110.743	67.3	64.8 14,229	66.0 14,929	68.0 13,000	67.7 13.442
EmployedAgriculture	130,818 3,245	132,578 3,270	3,077	111,646 3,063	102	14,929	538	731
Nonagricultural industries		129,308	107.665	108,583	14,127	14,788	12,462	12,711
Unemployed	5,955	5,702	4,233	4,155	1,416	1,261	983	1,018
Unemployment rate	4.4	4.1	3.7	3.6	9.1	7.8	7.0	7.0
Not in labor force	67,162	67,818	55,564	56,278	8,503	8,338	6,591	6,887
Men, 16 years and over								
Civilian noninstitutional population	98,139	99,216	82,881	83,680	10,832	11,002	10,502	10,876
Civilian labor force	73,308	74,127	62,652	63,145	7,381	7,606	8,429	8,655
Percent of population	74.7	74.7	75.6	75.5	68.1	69.1 7.004	80.3 7,886	79.6 8,124
Employed	70,131 2,398	71,135 2,491	60,311 2,263	60,902	6,722 82	118	456	665
Agriculture Nonagricultural industries		68,644	58,048	58,580	6,639	6,885	7,430	7,459
Unemployed	3,177	2,992	2,341	2,243	660	603	542	531
Unemployment rate	4.3	4.0	3.7	3.6	8.9	7.9	6.4	6.1
Not in labor force	24,831	25,088	20,229	20,536	3,451	3,395	2,073	2,221
Men, 20 years and over		ļ						
Civilian noninstitutional population	90,244	91,171	76,595	77,241	9,640	9,794	9,370	9,700
Civilian labor force	69,389	70,022	59,269	59,663	6,981	7,131	7,890	8,078
Percent of population	76.9	76.8	77.4	77.2	72.4	72.8	84.2	83.3
Employed	66,777	67,674	57,342	57,892	6,443	6,669	7,438	7,655
Agriculture	2,263	2,318	2,131	2,156 55,736	82 6,362	113 6,556	435 7,003	624 7,031
Nonagricultural industries		65,355 2,348	1,927	1,771	538	462	453	423
Unemployed	3.8	3.4	3.3	3.0	7.7	6.5	5.7	5.2
Not in labor force	20,855	21,149	17,326	17,578	2,659	2,663	1,480	1,622
Women, 16 years and over			1			ł	1	
Civilian noninstitutional population		106,882	87,659	88,399	13,316	13,527	10,073	10,471
Civilian labor force	63,465	64,152	52,324	52,657	8,264	8,584	5,555	5,804
Percent of population		60.0	59.7	59.6	62.1	63.5	55.2	55.4
Employed	60,687	61,443	50,432	50,744	7,508 20	7,926 23	5,114 82	5,317
Agriculture	847 59,841	779 60,663	814 49,617	741 50,003	7,488	7,903	5,032	65 5,252
Nonagricultural industries	l -'	2,710	1,892	1,913	757	658	441	487
Unemployment rate	4.4	4.2	3.6	3.6	9.2	7.7	7.9	8.4
Not in labor force	42,331	42,729	35,335	35,742	5,052	4,943	4,518	4,667
Women, 20 years and over								
Civilian noninstitutional population	98,219	99,118	81,702	82,287	12,091	12,276	9,058	9,412
Civilian labor force		60,296	49,292	49,443	7,774	8,064	5,197	5,358
Percent of population		60.8	60.3	60.1	64.3	65.7	57.4	56.9
Employed	57,513	58,065	47,715	47,882	7,170	7,513	4,824	4,982
Agriculture	809	742	780	705	18	22 7,491	82 4,742	62 4,921
Nonagricultural industries	56,704 2,286	57,322 2,231	46,935 1,577	47,177 1,561	7,152 604	551	373	375
Unemployed	3.8	3.7	3.2	3.2	7.8	6.8	7.2	7.0
Not in labor force	38,419	38,822	32,410	32,844	4,317	4,212	3,861	4,054
Both sexes, 16 to 19 years						1		
Civilian noninstitutional population	15,473	15,809	12,243	12,551	2,418	2,459	2,146	2,235
Civilian labor force		7,962	6,415	6,695	891	996	896	1,023
Percent of population	1	50.4	52.4	53.3	36.8	40.5	41.8	45.8
Employed		6,839	5,686	5,871	616	748	739	804
Agriculture		209	167	202	2	6	22	45
Nonagricultural industries		6,630	5,519	5,670 824	614	741	717	758 220
Unemployed		1,123	729 11.4	12.3	275 30.8	248 24.9	157 17.6	21.5
Unemployment rate	7,888	7,846	5,828	5,856	1,527	1,463	1,250	1,211

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 1998, data reflect new composite estimation procedures and 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)

	Total Hisp	anic origin ¹	Mexica	n origin	Puerto Ri	can origin	Cuban	origin
Employment status, sex, and age	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
TOTAL								_
Civilian noninstitutional population	20,574	21,347	12,541	13,325	2,345	2,077	1,026	1,084
Civilian labor force	13,984	14,459	8,655	9,135	1,383	1,274	654	673
Percent of population		67.7	69.0	68.6	59.0	61.4	63.7	62.1
Employed		13,442	8,036	8,496	1,249	1,167	609	623
Agriculture		731	486	671	5	9	4	6
Nonagricultural industries		12,711	7,549	7,824	1,245	1,158	604	617
Unemployed		1,018	619	640	134	107	45	49
Unemployment rate Not in labor force	7.0 6,591	7.0 6,887	7.2 3,886	7.0 4,189	9.7 961	8.4 802	6.9 372	7.3 411
Men, 16 years and over						:		
ivilian noninstitutional population	10,502	10,876	6,638	6,974	1,126	991	505	540
Civilian labor force	8,429	8,655	5,423	5,677	783	698	386	403
Percent of population		79.6	81.7	81.4	69.5	70.5	76.4	74.5
Employed		8,124	5,080	5,344	705	639	360	380
Agriculture		665	412	609	701	8	4	6
Nonagricultural industries		7,459	4,668	4,735	701	631	356	374
Unemployed		531 6.1	343 6.3	334	77	59	26	22
Unemployment rate		2,221	1,215	5.9 1,296	9.9 344	8.4 293	6.6 119	5.5 138
Men, 20 years and over								
civilian noninstitutional population	9,370	9,700	5.868	6,185	979	875	489	515
Civilian labor force	7,890	8.078	5,044	5,277	714	638	376	386
Percent of population		83.3	86.0	85.3	73.0	73.0	76.8	75.0
Employed		7.655	4,757	5,011	657	596	350	367
Agriculture		624	391	568	4	8	4	6
Nonagricultural industries	7,003	7,031	4,366	4,443	653	588	346	361
Unemployed	453	423	287	266	57	42	26	19
Unemployment rate	5.7	5.2	5.7	5.0	8.0	6.6	6.8	4.8
Not in labor force	1,480	1,622	824	907	264	236	114	129
Women, 16 years and over	Ì	ĺ	}					
Divilian noninstitutional population	10,073	10,471	5,902	6,351	1,218	1,086	521	543
Civilian labor force	5,555	5,804	3,232	3,458	601	577	268	270
Percent of population		55.4	54.7	54.4	49.3	53.1	51.4	49.8
Employed		5,317	2,955	3,152	544	528	248	243
Agriculture		65 5,252	74 2,881	63 3,089	- 544	1 527	248	243
Nonagricultural industries Unemployed		487	2,001	3,009	57	49	19	243 27
Unemployment rate		8.4	8.5	8.9	9.5	8.4	7.2	10.1
Not in labor force		4,667	2,671	2,893	618	510	253	273
Women, 20 years and over	1							
Divilian noninstitutional population	9,058	9,412	5,277	5,594	1,061	983	498	520
Civilian labor force	5,197	5,358	3,006	3,126	543	527	262	267
Percent of population	57.4	56.9	57.0	55.9	51.2	53.6	52.6	51.3
Employed		4,982	2,776	2,906	497	493	244	239
Agriculture		62	74	59		. 1	-	-
Nonagricultural industries		4,921	2,702	2,847	497	492	244	239
Unemployed		375	230	220	46	34	18	27
Unemployment rate		7.0	7.7	7.0	8.4	6.4	7.0	10.3
Not in labor force	3,861	4,054	2,271	2,469	518	456	236	253
Both sexes, 16 to 19 years	2,146	2,235	1,396	1,546	305	220	38	49
Civilian noninstitutional population Civilian labor force		1,023	605	733	126	109	16	20
Percent of population	1.1	45.8	43.3	47.4	41.4	49.7	(2)	(²)
Employed		804	503	579	95	77	15	17
Agriculture		45	22	45		_′′	_ '` {	~ ''
Nonagricultural industries		758	481	534	95	77	15	17
Unemployed		220	102	154	31	32	'ĭ	3
Unemployment rate		21.5	16.8	21.0	24.7	29.2	(2)	(²)
	1 17.0		,					

 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

	Т	otal	W	hite	Bla	ack	Hispani	ic origin
Category	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
SEX					:			
Total (all civilian workers)	130.818	132.578	110.743	111.646	14.229	14.929	13.000	13.442
Men		71,135	60,311	60,902	6,722	7,004	7,886	8,124
Women	60,687	61,443	50,432	50,744	7,508	7,926	5,114	5,317
OCCUPATION								
Managerial and professional specialty	38,265	39,916	33,417	34,774	2.909	3.086	1.893	1,932
Executive, administrative, and managerial	18,663	19,496	16,517	17,228	1,361	1,471	975	1,076
Professional specialty		20,420	16,900	17,546	1,548	1,615	918	856
r rolessional specialty	10,002	20,420	10,000	11,010	1,010	1,010	0.0	555
Technical, sales, and administrative support	38,694	38,547	33,024	32,431	4,073	4,420	3,117	3,141
Technicians and related support		4,163	3,626	3,455	404	465	263	282
Sales occupations		16,107	13,981	13,891	1,301	1,504	1,219	1,260
Administrative support, including clerical	18,462	18,276	15,416	15,086	2,369	2,451	1,635	1,600
Service occupations	17,725	17,838	13,716	13,723	3,126	3,258	2,681	2,706
Private household		861	672	700	133	134	224	272
Protective service		2.388	1,803	1.907	430	433	220	198
Service, except private household and protective		14,589	11,242	11,116	2,563	2,691	2,236	2,236
Precision production, craft, and repair	14,169	14,398	12,446	12,721	1,152	1,139	1,817	1,872
Mechanics and repairers		4,772	4,238	4,215	373	392	505	500
Construction trades		5,629	4,739	5,077	372	381	753	808
Other precision production, craft, and repair		3,996	3,468	3,428	408	365	560	564
Operators, fabricators, and laborers	18,638	18,475	15,035	14,856	2,825	2,852	2.870	2,995
Machine operators, assemblers, and inspectors		7,757	6,380	6,147	1,175	1,187	1,408	1,347
Transportation and material moving occupations		5,516	4,539	4,522	850	845	632	684
Handlers, equipment cleaners, helpers, and laborers		5,201	4,116	4,187	800	820	831	964
Construction laborers	819	851	679	739	115	91	153	212
Other handlers, equipment cleaners, helpers, and laborers	4,283	4,351	3,437	3,448	685	729	677	752
Farming, forestry, and fishing	3,326	3,405	3,105	3,141	144	174	623	795
CLASS OF WORKER								
Agriculture:		1]					
Wage and salary workers		1,950	1,625	1,796	67	106	491	681
Self-employed workers	1,459	1,284	1,403	1,231	35	36	45	47
Unpaid family workers	51	35	49	35	-	-	2	3
Nonagricultural industries:					J		İ	1
Wage and salary workers		120,276	99,554	100,535	13,634	14,237	11,880	12,160
Government		18,783	14,727	15,037	2,816	2,935	1,381	1,320
Private industries		101,493 960	84,827 745	85,497 772	10,818 151	11,302 159	10,499 243	10,840 280
Other industries		100,533	84,081	84,725	10.667	11.143	10,256	10.560
Self-employed workers		8,929	8.032	7,964	491	545	581	547
Unpaid family workers		103	79	84	2	6	1	4
FULL- OR PART-TIME STATUS								
Full-time workers	106,972	108,760	89.984	90,960	12,103	12,731	10,987	11,490
Part-time workers	23,846	23,817	20,759	20,686	2,126	2,199	2,014	1,952
I git unio noncia	20,040	20,017	20,700	20,000		_,,,,,,		.,552

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 1998, data reflect new composite estimation procedures and 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)

	Total H orig	lispanic gin ¹	Mexica	n origin	Puerto oriç		Cuban	origin
Category	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
SEX						·		
Total (all civilian workers)	13,000	13,442	8.036	8,496	1,249	1,167	609	623
Men	7.886	8,124	5.080	5,344	705	639	360	380
Women	5,114	5,317	2,955	3,152	544	528	248	243
OCCUPATION							ŀ	
Managerial and professional specialty	1,893	1,932	974	945	202	212	157	166
Executive, administrative, and managerial	975	1,076	518	551	102	110	95	103
Professional specialty	918	856	456	394	101	102	63	63
Tasksical color and administrative support	3,117	3,141	1.708	1.787	399	369	209	185
Technical, sales, and administrative support Technicians and related support	263	282	1,708	1,767	399	23	17	22
Sales occupations	1,219	1,260	660	709	158	143	88	88
Administrative support, including clerical	1,635	1,600	917	913	205	203	104	75
Service occupations	2,681	2,706	1,619	1,710	256	199	66	83
Private household	224	272	101	128	1	3	2	_
Protective service	220	198	115	108	61	47	4	11
Service, except private household and protective	2,236	2,236	1,403	1,474	195	149	60	73
Precision production, craft, and repair	1,817	1,872	1,272	1,232	131	147	67	67
Mechanics and repairers	505	500	311	326	48	42	38	22
Construction trades	753	808	560	541	36	48	17	22
Other precision production, craft, and repair	560	564	401	366	47	57	13	22
Operators, fabricators, and laborers	2,870	2,995	1,918	2,106	253	222	102	112
Machine operators, assemblers, and inspectors		1,347	951	967	121	118	31	30
Transportation and material moving occupations		684	401	448	63	50	41	51
Handlers, equipment cleaners, helpers, and laborers	831	964	566	691	69	54	30	32
Construction laborers		212	101	176	7	3	5	- 22
Other handlers, equipment cleaners, helpers, and laborers	677	752	464	515	61	51	25	32
Farming, forestry, and fishing	623	795	545	716	8	19	8	10
CLASS OF WORKER								
Agriculture:								
Wage and salary workers		681	449	630	4	8	4	6
Self-employed workers		47	35	39	-	2	_	-
Unpaid family workers	2	3	2	3	- '	_	_	_
Nonagricultural industries: Wage and salary workers	11,880	12,160	7,227	7,536	1,205	1,115	562	597
Government	1,381	1,320	849	811	187	186	60	70
Private industries		10,840	6,378	6,725	1,019	929	503	527
Private households	243	280	111	135	3	3	2	-
Other industries		10,560	6,267	6,590	1,016	926	501	527
Self-employed workers		547 4	322	286 2	39	40 2	42 	20 -
FULL- OR PART-TIME STATUS	, 					_		
• • • • • • • • • • • • • • • • • • • •	10.00=	44 400	0.047	7.070	1 222		500	550
Full-time workers		11,490 1,952	6,817 1,219	7,276 1,220	1,016 233	989 178	522 86	559 64
Part time workers	2,014	1,952	',2'8	',220	233	''	00	"

 $^{^{\}rm 1}$ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(In thousands)

	To	otal	wi	hite	Bla	ack	Hispani	c origin
Age and sex	IV 1997	IV 1998	IV 1997	1V 1998	IV 1997	IV 1998	IV 1997	IV 1998
Total, 16 years and over	130,818	132,578	110,743	111,646	14,229	14,929	13,000	13,442
16 to 19 years	6,528	6,839	5,686	5,871	616	748	739	804
16 to 17 years	2,607	2,657	2,313	2,330	216	249	214	206
18 to 19 years	3,922	4,182	3,373	3,542	400	499	525	598
20 to 24 years	12,412	12,664	10,369	10,549	1,475	1,574	1,781	1,927
25 years and over	111,877	113,074	94,688	95,226	12,138	12,608	10,481	10,711
25 to 54 years	95,338	96,067	80,082	80,275	10,771	11,164	9,449	9,725
55 years and over	16,539	17,007	14,605	14,951	1,367	1,445	1,031	986
Men, 16 years and over	70,131	71,135	60,311	60,902	6,722	7,004	7,886	8,124
16 to 19 years	3,354	3,462	2,969	3,010	279	335	448	469
16 to 17 years	1,336	1,319	1,188	1,159	103	117	128	107
18 to 19 years	2,018	2,142	1,781	1,851	175	218	321	362
20 to 24 years	6,467	6,667	5,488	5,679	691	698	1,087	1,204
25 years and over	60,310	61,007	51,854	52,213	5,752	5,971	6,350	6,451
25 to 54 years	51,119	51,569	43,650	43,843	5,114	5,283	5,744	5,842
55 years and over	9,190	9,437	8,204	8,370	638	688	606	609
Women, 16 years and over	60,687	61,443	50,432	50,744	7,508	7,926	5,114	5,317
16 to 19 years	3,174	3,378	2,717	2,862	337	413	290	335
16 to 17 years	1,271	1,338	1,125	1,171	113	132	86	100
18 to 19 years	1,904	2,040	1,592	1,691	224	281	204	235
20 to 24 years	5,945	5,997	4,881	4,869	785	876	693	722
25 years and over	51,568	52,067	42,834	43,013	6,386	6.637	4.130	4,260
25 to 54 years	44,219	44,497	36,433	36,432	5,657	5,880	3,705	3,883
55 years and over	7,349	7,570	6,401	6,581	728	756	425	377

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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

	To	otal	W	nite	Bla	ack	Hispanic origin	
Age and sex	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
Total, 16 years and over	4.4	4.1	3.7	3.6	9.1	7.8	7.0	7.0
6 to 19 years	13.9	14.1	11.4	12.3	30.8	24.9	17.6	21.5
16 to 17 years	15.6	16.0	13.0	14.2	33.8	28.9	20.6	30.5
18 to 19 years	12.8	12.8	10.3	11.0	29.1	22.7	16.2	17.8
0 to 24 years	7.8	6.5	6.4	5.5	16.8	13.2	10.3	8.7
5 years and over	3.3	3.2	2.9	2.8	6.5	5.8	5.6	5.4
25 to 54 years	3.4	3.3	3.0	2.8	6.8	6.0	5.5	5.4
55 years and over	2.6	2.7	2.4	2.5	4.0	4.0	6.2	5.8
Men, 16 years and over	4.3	4.0	3.7	3.6	8.9	7.9	6.4	6.1
6 to 19 years	14.4	15.7	12.2	13.6	30.4	29.7	16.7	18.7
16 to 17 years	16.3	18.6	13.9	16.7	33.0	33.1	20.5	30.0
18 to 19 years	13.2	13.8	11,1	11.5	28.8	27.7	15.0	14.7
0 to 24 years	8.8	6.8	7.3	5.8	18.7	14.1	10.9	8.5
5 years and over	3.2	3.0	2.8	2.6	6.2	5.5	4.8	4.6
25 to 54 years	3.3	3.0	2.8	2.6	6.5	5.6	4.5	4.5
55 years and over	2.8	2.8	2.7	2.6	3.5	4.2	7.3	5.6
Women, 16 years and over	4.4	4.2	3.6	3.6	9.2	7.7	7.9	8.4
6 to 19 years	13.4	12.4	10.4	10.9	31.2	20.5	18.9	25.0
16 to 17 years	15.0	13.4	11.9	11.7	34.6	24.7	20.8	31.2
18 to 19 years	12.3	11.8	9.3	10.4	29.3	18.4	18.1	22.0
0 to 24 years	6.8	6.2	5.4	5.1	15.1	12.4	9.4	8.9
5 years and over	3.5	3.4	2.9	2.9	6.8	6.0	6.8	6.7
25 to 54 years	3.7	3.5	3.1	3.0	7.1	6.3	7.0	6.7
55 years and over	2.3	2.5	2.0	2.4	4.5	3.9	4.7	6.1

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the

household survey.

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

(Numbers in thousands)

	Тс	otal	W	nite	Bla	ack	Hispan	ic origin
Reasons	IV	IV	IV	IV	IV	IV	IV	IV
	1997	1998	1997	1998	1997	1998	1997	1998
NUMBER OF UNEMPLOYED								
Total unemployed Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants	5,955	5,702	4,233	4,155	1,416	1,261	983	1,018
	2,758	2,621	2,057	1,982	564	524	504	481
	809	752	677	636	98	90	147	148
	1,949	1,869	1,379	1,347	466	434	357	333
	1,303	1,272	982	928	254	275	211	203
	645	596	398	419	212	159	146	130
	688	679	531	524	125	125	78	77
	2,058	1,957	1,379	1,368	573	480	304	337
	451	446	266	281	154	132	98	122
PERCENT DISTRIBUTION Job losers and persons who completed temporary jobs On temporary layoff	46.3	46.0	48.6	47.7	39.8	41.6	51.3	47.3
	13.6	13.2	16.0	15.3	6.9	7.2	14.9	14.6
	32.7	32.8	32.6	32.4	32.9	34.4	36.3	32.7
	11.6	11.9	12.5	12.6	8.8	9.9	7.9	7.6
	34.6	34.3	32.6	32.9	40.5	38.1	30.9	33.1
	7.6	7.8	6.3	6.8	10.8	10.5	9.9	12.0
Job losers and persons who completed temporary jobs	2.0 .5 1.5	1.9 .5 1.4 .3	1.8 .5 1.2 .2	1.7 .5 1.2 .2	3.6 .8 3.7 1.0	3.2 .8 3.0 .8	3.6 .6 2.2 .7	3.3 .5 2.3 .8

NOTE: Detail for the above race and Hispanic-orgin 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 1998, data reflect new composite estimation procedures and 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)

	To	tal	W	nite	Bla	ack	Hispani	c origin
Duration	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
NUMBER OF UNEMPLOYED								
Total, 16 years and over	5,955	5,702	4,233	4,155	1,416	1,261	983	1,018
ess than 5 weeks	2,300	2,413	1,732	1,918	454	370	390	460
to 14 weeks	1,898	1,825	1,348	1,291	453	432	326	315
5 weeks and over	1,757	1,463	1,154	946	510	458	267	243
15 to 26 weeks	818	660	547	446	233	192	124	110
27 weeks and over	939	803	607	500	276	267	143	133
Average (mean) duration, in weeks	16.0	14.4	14.9	12.7	18.6	19.7	15.3	13.1
Median duration, in weeks	7.4	6.2	6.7	5.3	9.3	10.2	7.0	5.6
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ess than 5 weeks	38.6	42.3	40.9	46.2	32.1	29.4	39.7	45.2
5 to 14 weeks	31.9	32.0	31.8	31.1	32.0	34.3	33.1	30.9
5 weeks and over	29.5	25.7	27.3	22.8	36.0	36.3	27.2	23.9
15 to 26 weeks	13.7	11.6	12.9	10.7	16.5	15.2	12.6	10.8
27 weeks and over	15.8	14,1	14.3	12.0	19.5	21.1	14.6	13.1

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

Observato dall'		of workers usands)	Median wee	kly earnings
Characteristic	IV 1997	IV 1998	IV 1997	IV 1998
SEX AND AGE				
Total, 16 years and over	94,355	96,213	\$511	\$541
Men, 16 years and over	53,455	54,459	587	614
16 to 24 years	5,956	6,245	323	342
25 years and over	47,499	48,214	621	664
Women, 16 years and over	40,900	41,754	440	471
16 to 24 years	4,364	4,563	299	311
25 years and over	36,535	37,191	470	495
RACE, HISPANIC ORIGIN, AND SEX		•		
White	78,440	79,627	528	565
Men	45,462	46,128	602	635
Women	32,978	33,499	454	481
Black	11,516	12,015	410	439
Men	5,597	5,807	457	481
Women	5,918	6,208	371	405
Hispanic origin	10,293	10,812	354	372
Men	6,649	6,875	375	397
Women	3,644	3,937	317	337

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 1998, data reflect new composite estimation procedures and 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

	Number o (in thou		Median week	ly earnings
Characterístic	IV 1997	IV 1998	IV 1997	IV 1998
SEX AND AGE				
otal, 16 years and over	21,205	21,324	\$150	\$158
Men, 16 years and over	6.635	6,739	137	143
16 to 24 years	3,629	3,622	111	115
25 years and over	3,006	3,117	187	195
Women, 16 years and over	14,570	14,585	155	165
16 to 24 years	4,586	4,615	111	117
25 years and over	9,984	9,970	185	199
RACE, HISPANIC ORIGIN, AND SEX			ľ	
White	18,298	18,310	151	159
Men	5,632	5,639	136	143
Women	12,666	12,671	157	167
Black	2,041	2,172	140	148
Men	686	735	141	138
Women	1,355	1,437	139	154
Hispanic origin	1,809	1,752	151	163
Men	657	587	148	171
Women	1,152	1,166	152	158

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

	Number o (in thou		Median weekly earnings		
Occupation and sex	IV 1997	IV 1998	IV 1997	IV 1998	
TOTAL					
Managerial and professional specialty	28,609	30,396	\$754	\$792	
Executive, administrative, and managerial	14,162	15,034	741	788 705	
Professional specialty	14,447 27,306	15,362 27,225	764 466	795 482	
Technical, sales, and administrative support	3,554	3,349	601	611	
Technicians and related support	9,724	9,734	502	510	
Administrative support, including clerical	14,028	14,143	419	443	
Service occupations	10,342	10,469	320	325	
Private household	389	413	244	236	
Protective service	1,891	2,071	587 300	615 306	
Service, except private nousehold and protective	8,062 11,447	7,985 11,245	541	585	
Precision production, craft, and repair	4,148	3,807	573	606	
Construction trades	3,734	4,049	541	566	
Other precision production, craft, and repair	3,565	3,389	515	580	
Operators, fabricators, and laborers	15,337	15,158	405	423	
Machine operators, assemblers, and inspectors	7,118	6,985	397	420 520	
Transportation and material moving occupations	4,412 3,807	4,349 3,824	499 323	520 359	
Handlers, equipment cleaners, nelpers, and laborers	1,314	1,721	292	303	
	1,014	1,,,2.	202	555	
Men					
Managerial and professional specialty	14,483	15,579	908 901	942 947	
Executive, administrative, and managerial	7,446 7,036	8,111 7,468	915	937	
Professional specialty Technical, sales, and administrative support	10,427	10,349	595	612	
Technicians and related support	1,857	1,698	691	738	
Sales occupations	5,291	5,238	630	635	
Administrative support, including clerical	3,279	3,414	493	526	
Service occupations	5,254	5,239	(1)	(1)	
Private household	48 1,576	30 1,739	\$614	\$629	
Protective service	3,630	3,469	321	321	
Precision production, craft, and repair	10,528	10,317	562	597	
Mechanics and repairers	4,034	3,681	576	604	
Construction trades	3,684	3,985	545	567	
Other precision production, craft, and repair	2,810	2,651	564	617	
Operators, fabricators, and laborers	11,621	11,501	447 477	467 487	
Machine operators, assemblers, and inspectors	4,445 4,079	4,490 3,979	505	537	
Handlers, equipment cleaners, helpers, and laborers	3,097	3,032	339	372	
Farming, forestry, and fishing	1,143	1,475	296	313	
Women					
Managerial and professional specialty	14,126	14,817	644	672	
Executive, administrative, and managerial	6,715	6,923	614	642	
Professional specialty Technical, sales, and administrative support	7,411 16,879	7,894 16,876	676 408	698 422	
Technical, sales, and administrative support	1,697	1,651	524	519	
Sales occupations	4,433	4,496	360	375	
Administrative support, including clerical	10,749	10,729	406	421	
Service occupations	5,088	5,230	286	298	
Private household	341 315	382 331	238 449	227 542	
Protective service	4,432	4,516	283	296	
Precision production, craft, and repair	919	928	389	439	
Mechanics and repairers	114	126	456	690	
Construction trades	50	64	(¹)	(¹)	
Other precision production, craft, and repair	755	737	\$384	\$414	
Operators, fabricators, and laborers	3,716	3,657	313	342	
Machine operators, assemblers, and inspectors	2,673 333	2,495 370	316 400	345 406	
Transportation and material moving occupations	711	793	285	315	
		,		0.0	

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

NOTE: Beginning in January 1998, data reflect new composite

estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA NOT SEASONALLY ADJUSTED QUARTERLY AVERAGES

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

(Numbers in thousands)

	Civilian noninstitutional population		Civilian labor force									
Veteran status and age			То	tal	Empl	Employed		Unemployed				
. Coo an called and ago	IV 1997	IV 1998			IV	IV	Number		Percent of labor force			
			1997	1998	1997	1998	IV 1997	IV 1998	IV 1997	IV 1998		
VIETNAM-ERA VETERANS			i									
Total, 40 years and over 40 to 54 years 40 to 44 years 45 to 49 years 50 to 54 years 55 years and over	7,779 6,156 867 2,492 2,797 1,623	7,779 5,796 630 2,084 3,083 1,983	6,590 5,538 772 2,252 2,514 1,052	6,478 5,149 561 1,881 2,707 1,329	6,420 5,395 753 2,198 2,444 1,025	6,324 5,025 540 1,835 2,649 1,300	170 143 19 54 70 27	154 124 21 46 58 30	2.6 2.6 2.5 2.4 2.8 2.6	2.4 2.4 3.7 2.4 2.1 2.2		
NONVETERANS Total, 40 to 54 years	19,858 9,143 6,471 4,244	20,615 9,317 6,994 4,304	17,966 8,460 5,857 3,649	18,674 8,602 6,363 3,710	17,439 8,218 5,687 3,534	18,210 8,386 6,197 3,626	527 242 170 115	465 216 166 83	2.9 2.9 2.9 3.2	2.5 2.5 2.6 2.3		

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 1998, data reflect new

composite estimation procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

			Vete	rans					Nonve	terans		
Employment status and age	W	nite	Bla	ıck	Hispani	c origin	WI	nite	Bla	ack	Hispani	c origin
	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998	IV 1997	IV 1998
Total, 40 to 54 years												
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	5,518 5,008 4,891 117 2.3	5,111 4,573 4,459 114 2.5	520 427 404 23 5.4	567 483 474 9 1.9	251 219 215 4 2.0		16,737 15,343 14,936 406 2.6	17,464 16,064 15,696 368 2.3	2,101 1,712 1,633 79 4.6	2,102 1,675 1,599 76 4.5	2,051 1,849 1,768 81 4.4	2,186 1,931 1,853 77 4.0
40 to 44 years			.						,,,,			
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	731 657 643 14 2.2	493 442 426 16 3.6	117 98 93 5 5.0	115 104 99 5 4.9	65 59 56 2 (1)	36 33 30 3 (¹)	7,728 7,241 7,055 187 2.6	7,929 7,412 7,249 164 2.2	937 780 742 39 4.9	929 770 726 43 5.6	966 903 864 39 4.3	1,036 935 895 40 4.3
45 to 49 years							ł					
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	2,012	1,808 1,648 1,606 42 2.5	237 199 187 12 5.9	224 190 186 4 2.0	89 73 72 1 1.8	86 80 77 3 4.3	5,450 4,978 4,843 135 2.7	5,937 5,488 5,353 135 2.5	702 599 578 21 3.6	740 594 572 22 3.7	660 577 551 26 4.5	681 610 586 24 4.0
50 to 54 years							ĺ					
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate		2,809 2,483 2,426 57 2.3	166 130 124 6 4.7	228 189 189 1 .3	96 88 87 1	109 94 92 2 2.5	3,559 3,124 3,039 85 2.7	3,599 3,163 3,094 70 2.2	462 332 313 19 5.7	433 312 301 11 3.4	426 369 353 17 4.5	469 386 372 13 3.4

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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Annual Averages

HOUSEHOLD DATA ANNUAL AVERAGES

1. Employment status of the civilian noninstitutional population, 1935 to date

(Numbers in thousands)

		ļ			Civilian labor for	се			
	Civilian				Employed		Unem	ployed	Not in
Year	noninsti- tutional population	Total	Percent of population	Total	Agriculture	Nonagri- cultural industries	Number	Percent of labor force	labor force
				Persor	ns 14 years of ag	e and over			
935	(1)	52,870	/1\	42,260	10.110	20.150	10.010	20.4	/1>
936	1 715	53,440	\ \i\	44,410	10,110	32,150 34,410	10,610 9,030	20.1 16.9	{i}
937	[[[]]]	54,000	(1)	46,300	9,820	36,480	7,700	14.3	(1)
938		54,610	(;)	44,220	9,690	34,530	10,390	19.0	(1)
939	, ,	55,230	(1)	45,750	9,610	36,140	9,480	17.2	(1)
940	(1)	55,640	(1)	47,520	9,540	37,980	8,120	14.6	(¹)
941		55,910	(1)	50,350	9,100	41,250	5,560	9.9	(1)
942 943		56,410 55,540	57.2 58.7	53,750 54,470	9,250 9,080	44,500 45,390	2,660 1,070	4.7	42,230
944		54,630	58.6	53,960	8,950	45,010	670	1.9 1,2	39,100 38,590
945		53,860	57.2	52,820	8,580	44,240	1,040	1.9	40,230
946		57,520	55.8	55,250	8,320	46,930	2,270	3.9	45,550
047	106,018	60,168	56.8	57,812	8,256	49,557	2,356	3.9	45,850
		· <u> </u>		Persor	ns 16 years of ag	e and over	•	<u> </u>	·
947	101,827	59,350	58.3	57.038	7,890	49,148	2,311	3.9	42,477
948	103,068	60,621	58.8	58,343	7,629	50,714	2,276	3.8	42,477
949		61,286	58.9	57,651	7,658	49,993	3,637	5.9	42,708
950	104,995	62,208	59.2	58,918	7,160	51,758	3,288	5.3	42,787
951		62,017	59.2	59,961	6,726	53,235	2,055	3.3	42,787
952	105,231	62,138	59.0	60,250	6,500	53,749	1,883	3.0	43,093
9532		63,015	58.9	61,179	6,260	54,919	1,834	2.9	44,04
954 955		63,643 65,023	58.8 59.3	60,109 62,170	6,205 6,450	53,904 55,722	3,532 2,852	5.5 4.4	44,678 44,660
956		66,552	60.0	63,799	6,283	57,514	2,750	4.1	44,402
957		66,929	59.6	64,071	5,947	58,123	2,859	4.3	45,336
958		67,639	59.5	63,036	5,586	57,450	4,602	6.8	46,088
959	115,329	68,369	59.3	64,630	5,565	59,065	3,740	5.5	46,960
9602		69,628	59.4	65,778	5,458	60,318	3,852	5.5	47,617
961		70,459	59.3	65,746	5,200	60,546	4,714	6.7	48,312
962 ² 963		70,614 71,833	58.8 58.7	66,702 67,762	4,944 4,687	61,759 63,076	3,911 4,070	5.5 5.7	49,539 50,583
964		73,091	58.7	69,305	4,523	64,782	3,786	5.2	51,394
965		74,455	58.9	71,088	4,361	66,726	3,366	4.5	52,058
966967		75,770 77,347	59.2 59.6	72,895 74,372	3,979 3,844	68,915 70,527	2,875	3.8 3.8	52,288
968		78,737	59.6 59.6	75,920	3,817	70,527	2,975 2,817	3.6	52,527 53,291
969		80,734	60.1	77,902	3,606	74,296	2,832	3.5	53,602
970	137,085	82,771	60.4	78,678	3,463	75,215	4,093	4.9	54,315
971		84,382	60.2	79,367	3,394	75,972	5,016	5.9	55,834
9722	144,126	87,034	60.4	82,153	3,484	78,669	4,882	5.6	57,09
9732		89,429	60.8	85,064	3,470	81,594	4,365	4.9	57,66
974 975		91,949 93,775	61.3 61.2	86,794 85,846	3,515 3,408	83,279 82,438	5,156 7,929	5.6 8.5	58,17 59,37
976	156,150	96,158	61.6	88,752	3,331	85,421	7,406	7.7	59,99
977		99,009	62.3	92,017	3,283	88,734	6,991	7.1	60,025
978 ² 979		102,251 104,962	63.2 63.7	96,048 98,824	3,387 3,347	92,661 95,477	6,202 6,137	6.1 5.8	59,659 59,900
980		106,940	63.8	99,303	3,364	95,938	7,637	7.1	60,806
981	170,130	108,670	63.9	100,397	3,368	97,030	8,273	7.6	61,460
982		110,204	64.0	99,526	3,401	96,125	10,678	9.7	62,067
983 984		111,550 113,544	64.0 64.4	100,834 105,005	3,383 3,321	97,450 101,685	10,717 8,539	9.6 7.5	62,669 62,839
985		115,461	64.8	107,150	3,179	103,971	8,312	7.2	62,744
9862	180,587	117,834	65.3	109,597	3,163	106,434	8,237	7.0	62,752
987		119,865	65.6	112,440	3,208	109,232	7,425	6.2	62,888
988 989		121,669 123,869	65.9 66.5	114,968 117,342	3,169 3,199	111,800 114,142	6,701 6,528	5.5 5.3	62,944 62,523
9902	189,164	125,840	66.5	118,793	3,223	115,570	7,047	5.6	63,324
991	190,925	126,346	66.2	117,718	3,269	114,449	8,628	6.8	64,578
992		128,105	66.4	118,492	3,247	115,245	9,613	7.5	64,700
993		129,200	66.3	120,259	3,115	117,144	8,940	6.9	65,638
994 ² 995		131,056 132,304	66.6 66.6	123,060 124,900	3,409 3,440	119,651 121,460	7,996 7,404	6.1 5.6	65,758 66,286
996		133,943	66.8	126,708	3,443	123,264	7,236	5.4	66,64
9972	203,133	136,297	67.1	129,558	3,399	126,159	6,739	4.9	66,837
9983		137,673	67.1	131,463	3,378	128,085	6,210	4.5	67,54

earlier years because of the introduction of new composite estimation procedures and revised population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1998" in the February 1998 issue of this publication.

 $^{^1\,}$ 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 1996, data are not strictly comparable with data for 1997 and

2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1966 to date

(Numbers in thousands)

						Civilian labor	force			
	Civilian		1		Er	nployed		Unem	ployed	
Year	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
						Men		1	·	
66		48,471	80.4	46,919	77.9	3,243	43,675	1,551	3.2	11,79
676869	61,847	48,987 49,533 50,221	80.4 80.1 79.8	47,479 48,114 48,818	78.0 77.8 77.6	3,164 3,157 2,963	44,315 44,957 45,855	1,508 1,419 1,403	3.1 2.9 2.8	11,91: 12,31: 12,67
70		51,228	79.7	48,990	76.2	2,862	46,128	2,238	4.4	13,07
71 721		52,180 53,555	79.1 78.9	49,390 50.896	74.9 75.0	2,795 2,849	46,595 48,047	2,789 2,659	5.3 5.0	13,76 14,28
731		54,624	78.8	52,349	75.5	2,847	49,502	2,275	4.2	14,66
74	70,808	55,739	78.7	53,024	74.9	2,919	50,105	2,714	4.9	15,06
75		56,299	77.9	51,857	71.7	2,824	49,032	4,442	7.9	15,99
76		57,174	77.5	53,138	72.0	2,744	50,394	4,036	7.1	16,58
/7 /81		58,396 59,620	77.7 77.9	54,728 56,479	72.8 73.8	2,671 2,718	52,057 53,761	3,667 3,142	6.3 5.3	16,79 16,95
79		60,726	77.8	57,607	73.8	2,686	54,921	3,120	5.1	17,29
		61,453	77.4	57,186	72.0	2,709	54,477	4,267	6.9	17,94
31		61,974	77.0	57,397	71.3	2,700	54,697	4,577	7.4	18,53
92		62,450	76.6	56,271	69.0	2,736	53,534	6,179	9.9	19,07 19,48
3 4		63,047 63,835	76.4 76.4	56,787 59,091	68.8 70.7	2,704 2,668	54,083 56,423	6,260 4,744	9.9 7.4	19,40
5		64,411	76.3	59,891	70.9	2,535	57,356	4,521	7.0	20.0
161		65,422	76.3	60,892	71.0	2,511	58,381	4,530	6.9	20,3
7		66,207	76.2	62,107	71.5	2,543	59,564	4,101	6.2	20,69
8		66,927	76.2	63,273	72.0	2,493	60,780	3,655	5.5	20,93
9	88,762	67,840	76.4	64,315	72.5	2,513	61,802	3,525	5.2	20,92
01		69,011 69,168	76.4 75.8	65,104 64,223	72.0 70.4	2,546 2,589	62,559 61,634	3,906 4,946	5.7 7.2	21,36 22,11
)1 12		69,964	75.8	64,440	69.8	2,575	61,866	5,523	7.2	22.30
3		70,404	75.4	65,349	70.0	2,478	62,871	5,055	7.2	22,92
941		70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,53
95		71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,81
96		72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,11
071		73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,4
982	98,758	73,959	74.9	70,693	71.6	2,553	68,140	3,266	4.4	24,79
			1		<u> </u>	Vomen		1		
66		27,299	40.3	25,976	38.3	736	25,240	1,324	4.8	40,49
67		28,360	41.1 41.6	26,893	39.0 39.6	680 660	26,212	1,468	5.2	40,60
6869		29,204 30,513	42.7	27,807 29,084	40.7	643	27,147 28,441	1,397 1,429	4.8 4.7	40,97 40,92
70	72,782	31,543	43.3	29,688	40.8	601	29,087	1,855	5.9	41,23
71		32,202	43.4	29,976	40.4	599	29,377	2,227	6.9	42,0
21	76,290	33,479	43.9	31,257	41.0	635	30,622	2,222	6.6	42,8
/31		34,804	44.7	32,715	42.0	622	32,093	2,089	6.0	43,00
² 4		36,211 37,475	45.7 46.3	33,769 33,989	42.6 42.0	596 584	33,173 33,404	2,441 3,486	6.7 9.3	43,1
6		38,983	47.3	35,615	43.2	588	35,027	3,369	8.6	43,4
7		40,613	48.4	37,289	44.5	612	36,677	3,324	8.2	43,2
81	85,334	42,631	50.0 50.9	39,569	46.4 47.5	669 661	38,900 40,556	3,061 3,018	7.2 6.8	42,7
9		44,235	1	41,217	1					42.6
0 1		45,487 46,696	51.5 52.1	42,117 43,000	47.7 48.0	656 667	41,461 42,333	3,370 3,696	7.4 7.9	42,8 42,9
2		47,755	52.6	43,256	47.7	665	42,591	4,499	9.4	42,9
3		48,503	52.9	44,047	48.0	680	43,367	4,457	9.2	43,1
4	92,778	49,709	53.6	45,915	49.5	653	45,262	3,794	7.6	43,0
5		51,050	54.5	47,259	50.4	644	46,615	3,791	7.4	42,6
61 7		52,413	55.3 56.0	48,706 50,334	51.4 52.5	652 666	48,054 49,668	3,707 3,324	7.1 6.2	42,3
/ 8		53,658 54,742	56.6	51,696	53.4	676	51,020	3,324	5.6	42,19 42,0
9		56,030	57.4	53,027	54.3	687	52,341	3,003	5.4	41,6
01		56,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,95
rt	99,646	57,178	57.4	53,496	53.7	680 672	52,815 53,380	3,683	6.4	42,46
2		58,141 58,795	57.8 57.9	54,052 54,910	53.8 54.1	672 637	53,380 54,273	4,0 9 0 3,885	7.0 6.6	42,39
3		60,239	57.9 58.8	54,910 56,610	54.1 55.3	855	54,273 55,755	3,885	6.0	42,7 42,2
41 5		60,239	58.9	57,523	55.8	881	56,642	3,421	5.6	42,2
16		61,857	59.3	58,501	56.0	871	57,630	3,356	5.4	42,52
171		63,036	59.8	59,873	56.8	847	59,026	3,162	5.0	42,38

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.
Beginning in January 1998, data are not strictly comparable with data for 1997 and

earlier years because of the introduction of new composite estimation procedures and revised population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1998" in the February 1998 issue of this publication.

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

(Numbers in thousands)

					199	8				
					Civi	ilian labor fo	rce			
Age, sex, and race	Civilian				Empl	loyed		Unem	ployed	
nge, sex, and race	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
TOTAL										
6 years and over	205,220	137,673	67.1	131,463	64.1	3,378	128,085	6,210	4.5	67.54
16 to 19 years		8,256	52.8	7,051	45.1	261	6,790	1,205	4.5 14.6	67,547 7,388
16 to 17 years		3,335	42.2	2,762	35.0	131	2,631	573	17.2	4,560
18 to 19 years		4,921	63.5	4,289	55.3	130	4,159	632	12.8	2,828
20 to 24 years		13,638	77.5	12,557	71.4	339	12,218	1,081	7.9	3,955
25 to 54 years	117,450	98,718	84.1	95,258	81.1	2,105	93,153	3,459	3.5	18,732
25 to 34 years	38,778	32,813	84.6	31,394	81.0	718	30,676	1,419	4.3	5,964
25 to 29 years	18,622	15,808	84.9	15,061	80.9	350	14,711	747	4.7	2,815
30 to 34 years		17,006	84.4	16,333	81.0	368	15,965	672	4.0	3,150
35 to 44 years		37,536	84.7	36,278	81.9	791	35,486	1,258	3.4	6,76
35 to 39 years		18,899	84.2	18,232	81.2	433	17,800	666	3.5	3,55
40 to 44 years		18,637	85.3	18,045	82.6	358	17,687	592	3.2	3,21
45 to 54 years		28,368	82.5 84.7	27,587	80.3	596	26,991	782	2.8	6,00
45 to 49 years		15,923 12,445	79.9	15,477 12,109	82.3 77.8	345 251	15,132	446	2.8	2,88
50 to 54 years55 to 64 years		13,215	79.9 59.3	12,109	57.7	396	11,858 12,477	336 343	2.7 2.6	3,12 9,08
55 to 59 years		8,494	69.5	8,279	67.8	217	8,062	216	2.5	9,08 3,72
60 to 64 years		4,721	46.8	4,594	45.6	179	4,415	127	2.5	5,72
35 years and over		3,847	11.9	3,725	11.6	277	3,448	122	3.2	28,39
65 to 69 years		2,111	22.5	2,042	21.8	121	1,921	69	3.3	7,27
70 to 74 years		1,068	12.5	1,036	12.1	84	953	31	2.9	7,49
75 years and over	14,290	668	4.7	647	4.5	73	574	21	3.2	13,62
Men										
•	98,758	73,959	74.9	70,693	71.6	2,553	68,140	3,266	44	24.70
3 years and over		4,244	53.3	3,558	44.7	2,553	3,355	3,266 686	4.4 16.2	24,79 3,72
16 to 17 years		1,728	42.6	1,398	34.4	103	1,294	330	19.1	2.33
18 to 19 years		2,516	64.4	2,161	55.3	100	2,060	355	14.1	1,39
20 to 24 years		7,221	82.0	6,638	75.4	276	6,362	583	8.1	1,58
25 to 54 years		53,002	91.8	51,274	88.8	1,569	49,705	1,728	3.3	4,72
25 to 34 years	19,094	17,796	93.2	17,097	89.5	549	16,548	699	3.9	1,29
25 to 29 years	9,139	8,477	92.8	8,102	88.6	267	7,835	375	4.4	66
30 to 34 years		9,319	93.6	8,995	90.4	282	8,713	324	3.5	63
35 to 44 years		20,242	92.6	19,634	89.8	600	19,034	609	3.0	1,61
35 to 39 years		10,310	93.0	9,995	90.2	335	9,660	314	3.1	77.
40 to 44 years		9,933	92.2	9,638	89.5	265	9,374	294	3.0	84
45 to 54 years		14,963	89.2 90.8	14,544	86.7	420 247	14,124	420	2.8	1,81
45 to 49 years		8,364 6,599	87.3	8,132 6,412	88.3 84.8	173	7,885 6,239	232 187	2.8 2.8	84 96
50 to 54 years55 to 64 years		7,253	68.1	7,052	66.2	283	6,769	201	2.8	3,39
55 to 59 years		4,609	78.4	4,484	76.3	152	4,332	125	2.7	1,27
60 to 64 years		2,644	55.4	2,568	53.8	131	2,437	76	2.9	2,12
35 years and over		2,240	16.5	2,171	15.9	222	1,949	69	3.1	11.37
65 to 69 years		1,204	28.0	1,165	27.1	98	1,068	39	3.2	3,10
70 to 74 years		623	16.5	606	16.1	66	540	17	2.7	3,14
75 years and over	5,539	413	7.5	400	7.2	59	341	13	3.2	5,12
Women										
6 years and over	106,462	63,714	59.8	60,771	57.1	825	59,945	2,944	4.6	42,74
6 to 19 years		4,012	52.3	3,493	45.5	57	3,435	519	12.9	3,66
18 to 17 years		1,607	41.9	1,364	35.6	27	1,337	242	15.1	2,22
18 to 19 years	3,840	2,405	62.6	2,128	55.4	30	2,098	277	11.5	1,43
0 to 24 years		6,418	73.0	5,919	67.3	64	5,856	498	7.8	2,37
5 to 54 years		45,716	76.5	43,984	73.6	537	43,448	1,732	3.8	14,01
25 to 34 years		15,017	76.3	14,298	72.6	169	14,128	720	4.8	4,66
25 to 29 years		7,330	77.3	6,959	73.4	83	6,876	371	5.1	2,15
30 to 34 years		7,687	75.4	7,339	71.9	86	7,252	348	4.5	2,51
35 to 44 years		17,294	77.1 75.6	16,644 8,237	74.2 72.5	191 98	16,453	650 352	3.8	5,14
35 to 39 years		8,589 8,704	78.6	8,237	72.5 75.9	98	8,140 8,313	298	4.1 3.4	2,77 2,37
- · · ·		13,405	76.2	13,043	75.9 74.1	176	12,867	298 362	2.7	4,19
45 to 54 years	l -'	7,559	78.8	7,345	76.6	97	7,248	214	2.7	2,03
45 to 49 years 50 to 54 years		5,846	73.0	5,697	71.1	78	5,619	148	2.5	2,00
55 to 64 years		5,962	51.2	5,820	50.0	113	5,708	141	2.4	5,68
55 to 59 years		3,885	61.3	3,795	59.9	65	3,730	90	2.3	2,4
60 to 64 years		2,077	39.1	2,025	38.2	48	1,977	51	2.5	3,23
5 years and over		1,607	8.6	1,554	8.3	55	1,499	53	3.3	17,0
65 to 69 years		907	17.8	877	17.2	23	853	31	3.4	4,17
70 to 74 years		445	9.3	430	9.0	18	413	15	3.3	4,34
75 years and over		255	2.9	247	2.8	14	233	8	3.1	8,49

See footnotes at end of table.

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

(Numbers in thousands)

					199	เช 	· · · ·			
					Civi	ilian labor foi	се			
Age, sex, and race	Civilian				Empl	loyed		Unem	ployed	
	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
wнге										
6 years and over	171,478	115,415	67.3	110,931	64.7	3,160	107,770	4,484	3.9	56,06
16 to 19 years	12,439	6,965	56.0	6,089	48.9	250	5,839	878	12.6	5,47
16 to 17 years	6,264	2,860	45.7	2,436	38.9	125	2,311	424	14.8	3,40
18 to 19 years20 to 24 years	6,176 14,138	4,105 11,244	66.5 79.5	3,653 10,512	59.2 74.4	125 319	3,529 10,193	451 731	11.0 6.5	2,07 2,89
25 to 54 years	97,028	82,210	84.7	79.710	82.2	1,953	77,757	2.500	3.0	14,81
25 to 34 years	31,286	26,707	85.4	25,729	82.2	674	25,055	978	3.7	4,57
25 to 29 years	14,998	12,894	86.0	12,369	82.5	328	12,041	525	4.1	2,10
30 to 34 years	16,288	13,813	84.8	13,360	82.0	346	13,014	453	3.3	2,47
35 to 44 years	36,610	31,221	85.3	30,320	82.8	730	29,590	901	2.9	5,38
35 to 39 years	18,517 18,093	15,690 15,532	84.7 85.8	15,221 15,099	82.2 83.5	394 336	14,827 14,763	469 433	3.0 2.8	2,82 2,56
40 to 44 years	29,132	24,282	83.4	23,662	81.2	549	23,113	620	2.6 2.6	4,8
45 to 49 years	15,794	13,489	85.4	13,146	83.2	319	12,827	343	2.5	2,3
50 to 54 years	13,338	10,793	80.9	10,516	78.8	230	10,286	277	2.6	2,5
55 to 64 years	19,231	11,548	60.1	11,272	58.6	370	10,902	276	2.4	7,6
55 to 59 years	10,532	7,428	70.5	7,258	68.9	201	7,057	170	2.3	3,10
60 to 64 years65 years and over	8,699 28,642	4,120 3,448	47.4 12.0	4,014 3,347	46.1 11.7	169 269	3,845 3,079	106 101	2.6 2.9	4,5° 25,19
65 to 69 years	8,162	1,879	23.0	1,822	22.3	117	1,705	57	3.0	6,2
70 to 74 years	7,599	971	12.8	945	12.4	81	864	26	2.6	6,62
75 years and over	12,882	598	4.6	580	4.5	70	510	18	3.0	12,28
Men										
S years and over	83,352	63.034	75.6	60.604	72.7	2,376	58,228	2,431	3.9	20,3
16 to 19 years	6,386	3,614	56.6	3,103	48.6	194	2,909	510	14.1	2,77
16 to 17 years	3,233	1,487	46.0	1,233	38.1	99	1,134	254	17.1	1,74
18 to 19 years	3,153	2,127	67.5	1,870	59.3	95	1,775	257	12.1	1,02
20 to 24 years	7,170	6,063	84.6	5,659	78.9	259	5,400	405	6.7	1,10
25 to 54 years	48,354 15,644	44,930 14,770	92.9 94.4	43,635 14,259	90.2 91.1	1,444 514	42,191 13,745	1,295 512	2.9 3.5	3,42
25 to 34 years	7,495	7,059	94.2	6,781	90.5	251	6,531	278	3.9	43
30 to 34 years	8,149	7,711	94.6	7,477	91.8	263	7,214	234	3.0	43
35 to 44 years	18,310	17,157	93.7	16,715	91.3	550	16,166	441	2.6	1,1
35 to 39 years	9,269	8,719	94.1	8,492	91.6	303	8,189	227	2.6	5
40 to 44 years	9,041	8,438	93.3	8,223	91.0	247	7,976	215	2.5	60
45 to 54 years	14,400	13,003	90.3 91.8	12,661	87.9 89.5	381 227	12,281	342	2.6	1,39
45 to 49 years 50 to 54 years	7,840 6,561	7,198 5,805	88.5	7,013 5,649	86.1	154	6,786 5,495	185 157	2.6 2.7	7
55 to 64 years	9,286	6,415	69.1	6,251	67.3	263	5,988	164	2.6	2,8
55 to 59 years	5,120	4,078	79.7	3,976	77.7	140	3,837	102	2.5	1,04
60 to 64 years	4,167	2,337	56.1	2,275	54.6	124	2,151	62	2.7	1,8
65 years and over	12,155	2,013	16.6 28.3	1,955	16.1 27.4	216 94	1,740 945	58 33	2.9	10,14
65 to 69 years	3,785 3,374	1,072 568	16.8	1,039 554	16.4	64	490	14	3.1 2.5	2,71
75 years and over	4,996	373	7.5	362	7.2	57	305	11	2.9	4,62
Women										
years and over	88,126	52,380	59.4	50,327	57.1	784	49,543	2,053	3.9	35,74
6 to 19 years	6,053	3,351	55.4	2,986	49.3	55	2,930	365	10.9	2,70
16 to 17 years	3,031	1,373	45.3	1,203	39.7	26	1,177	171	12.4	1,6
18 to 19 years	3,023 6,969	1,977 5,180	65.4 74.3	1,783 4,853	59.0 69.6	30 60	1,753 4,793	195 327	9.8 6.3	1,0- 1,7
to to 24 yearsto 54 years	48,674	37,281	76.6	36,075	74.1	509	35,566	1,205	3.2	11,39
25 to 34 years	15,642	11,937	76.3	11,470	73.3	160	11,310	467	3.9	3,7
25 to 29 years	7,503	5,835	77.8	5,588	74.5	78	5,510	247	4.2	1,6
30 to 34 years	8,139	6,102	75.0	5,883	72.3	83	5,800	220	3.6	2,03
35 to 44 years	18,300 9,248	14,064 6,970	76.9 75.4	13,604 6,728	74.3 72.8	180 91	13,424 6,638	460 242	3.3 3.5	4,23 2,2
35 to 39 years	9,248	7,094	78.4	6,876	76.0	89	6,787	218	3.5	1,9
45 to 54 years	14,732	11,279	76.6	11,001	74.7	168	10,832	279	2.5	3,4
45 to 49 years	7,955	6,291	79.1	6,133	77.1	92	6,041	158	2.5	1,60
50 to 54 years	6,777	4,988	73.6	4,867	71.8	76	4,791	120	2.4	1,79
55 to 64 years	9,944	5,133	51.6	5,021	50.5	107	4,914	112	2.2	4,8
55 to 59 years	5,412	3,350	61.9	3,282	60.6	62	3,220	69	2.1	2,00
60 to 64 years	4,532	1,783	39.3	1,739	38.4	46 53	1,694	44	2.4	2,74
65 years and over	16,486 4,377	1,435 808	8.7 18.5	1,392 783	8.4 17.9	53 23	1,339 761	43 24	3.0 3.0	15,05 3,56
65 to 69 years 70 to 74 years	4,377	403	9.5	391	9.3	17	374	12	2.9	3,82
	7,885	225	2.9	218	2.8	13	205	7	3.1	7,66

See footnotes at end of table.

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

(Numbers in thousands)

					199	8				
					Civ	ilian labor fo	rce			
Age, sex, and race	Civilian				Empl	loyed		Unem	ployed	
	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
BLACK										
6 years and over	. 24,373	15,982	65.6	14,556	59.7	138	14,417	1,426	8.9	8.391
16 to 19 years		1,017	41.6	736	30.1	8	728	281	27.6	1,427
16 to 17 years		370	29.8	246	19.8	4	241	124	33.6	871
18 to 19 years		646 1,797	53.8 70.6	490	40.8	3	487	156	24.2	556
25 to 54 years		11.727	81.1	1,496 10,943	58.8 75.6	14 100	1,482	301	16.8	749
25 to 34 years		4,332	83.0	3,967	76.0	30	10,843 3,936	784 366	6.7 8.4	2,739 889
25 to 29 years		2.081	81.7	1,896	74.4	12	1,884	185	8.9	466
30 to 34 years		2,251	84.2	2,070	77.4	18	2.053	181	8.0	422
35 to 44 years		4,531	82.2	4,238	76.9	41	4,196	294	6.5	979
35 to 39 years	. 2,840	2,328	82.0	2,161	76.1	28	2,132	167	7.2	512
40 to 44 years		2,204	82.5	2,077	77.8	13	2,064	126	5.7	467
45 to 54 years		2,863	76.7	2,739	73.3	28	2,711	125	4.3	872
45 to 49 years		1,741	79.8	1,657	76.0	15	1,642	84	4.8	440
50 to 54 years55 to 64 years		1,123 1,163	72.2 52.3	1,082	69.6 50.3	13	1,069	41	3.6	432
55 to 59 years		749	61.3	1,118 720	59.0	13 9	1,105 712	45 28	3.9 3.8	1,060 473
60 to 64 years		415	41.4	398	39.7	4	393	17	4.1	587
65 years and over		278	10.3	262	9.7	3	259	16	5.6	2.417
65 to 69 years		152	17.3	144	16.3	2	142	9	5.7	728
70 to 74 years		70	9.6	66	9,1	_	66	4	5.7	660
75 years and over	. 1,083	55	5.1	52	4.8	1	51	3	5.4	1,028
Men										
6 years and over		7,542	69.0	6,871	62.9	118	6,752	671	8.9	3,386
16 to 19 years		488	40.7	341	28.4	7	335	147	30.1	712
16 to 17 years		181	29.1	120	19.2	3	116	61	33.9	442
18 to 19 years20 to 24 years		307 837	53.1 71.8	221 686	38.3 58.8	3	218	86	27.9	271
25 to 54 years		5,519	84.4	5.178	79.2	11 87	675 5,091	151 341	18.0 6.2	329 1,018
25 to 34 years		2,034	87.1	1.886	80.8	25	1,861	148	7.3	301
25 to 29 years		966	85.8	889	79.0	10	879	77	7.9	160
30 to 34 years		1,068	88.3	997	82.5	15	982	71	6.7	141
35 to 44 years		2,142	85.0	2,008	79.7	37	1,971	133	6.2	378
35 to 39 years		1,106	85.5	1,034	80.0	25	1,009	72	6.5	187
40 to 44 years		1,036	84.5	974	79.4	12	963	62	5.9	191
45 to 54 years		1,343 818	79.9 82.7	1,284 780	76.3 78.8	25	1,259	60	4.4	339
50 to 54 years	1 1	525	75.8	504	72.7	13 37	767 492	39 21	4.7 4.0	171 168
55 to 64 years	1 .	548	57.3	524	54.8	11	513	24	4.5	408
55 to 59 years		353	66.1	339	63.5	8	331	14	3.9	181
60 to 64 years		196	46.3	185	43.7	4	181	11	5.5	227
65 years and over		150	14.0	142	13.3	3	139	8	5.2	918
65 to 69 years		80 36	21.9 12.0	77 34	21.0	. 1	75	3	4.1	286
70 to 74 years 75 years and over		34	8.4	31	11.2 7.9	1	34 30	2 2	6.6 (1)	266 367
Women										
6 years and over	. 13,446	8,441	62.8	7,685	57.2	20	7,665	756	9.0	5,005
16 to 19 years		528	42.5	395	31.8	1	393	134	25.3	714
16 to 17 years	. 618	189	30.6	126	20.4	i	125	63	33.2	429
18 to 19 years	. 624	339	54.4	268	43.0	-	268	71	20.9	285
20 to 24 years		960	69.6	810	58.7	3	807	150	15.7	419
25 to 54 years		6,209	78.3	5,766	72.7	13	5,753	443	7.1	1,721
25 to 34 years		2,298	79.6 78.4	2,081	72.1	5	2,076	218	9.5	588
25 to 29 years		1,115 1,183	80.8	1,007 1,074	70.8 73.3	2 3	1,005	108 110	9.7	306
35 to 44 years		2,390	79.9	2,230	74.6	5	1,071 2,225	110	9.3 6.7	28 · 60 ·
35 to 39 years		1,222	79.0	1,127	72.8	3	1,124	95	7.8	32
40 to 44 years		1,167	80.9	1,103	76.4	1	1,102	65	5.5	276
45 to 54 years	. 2,053	1,520	74.0	1,455	70.9	4	1,452	65	4.3	533
45 to 49 years		922	77.4	877	73.6	2	875	45	4.9	269
50 to 54 years		598	69.4	578	67.1	1	577	20	3.3	264
55 to 64 years		615	48.5	594	46.9	2	592	21	3.4	652
55 to 59 years		396 210	57.6	382	55.4	1	380	15	3.7	292
60 to 64 years		219 128	37.8 7.9	213 120	36.8 7.4	_ 1	212	6	2.7	360
65 years and over		72	14.1	67	13.0	_	120 67	8 5	6.1 7.4	1,498 443
70 to 74 years		34	7.9	32	7.6	_	32	2	(1)	394
									1 (1)	

¹ Data not shown where base is less than 35,000. NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

					199	8		n = i		
			=		Civ	ilian labor foi	ce			
Age and sex	Civilian	! · ·			Emp	loyed		Unem	ployed	
	noninsti- tutional population	Total	Percent of population	Total	Percent of population	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	Not in labor force
TOTAL										
16 years and over	21,070 2,204 1,070 1,135 2,731 16,134 12,857 5,447 4,636 2,775 3,277 1,615 1,662	14,317 1,007 320 688 2,077 11,232 10,170 4,372 3,707 2,090 1,063 894 169	67.9 45.7 29.9 60.6 76.1 69.6 79.1 80.3 80.0 75.3 32.4 55.4	13,291 793 230 563 1,883 10,615 9,611 4,113 3,504 1,994 1,004 846 158	63.1 36.0 21.5 49.6 68.9 65.8 74.8 75.5 75.6 71.9 30.7 52.4 9.5	742 36 8 28 124 583 528 240 175 113 55 46	12,549 757 222 535 1,759 10,033 9,083 3,873 3,329 1,882 950 801 149	1,026 214 89 125 194 617 559 260 203 96 58 48	7.2 21.3 28.0 18.1 9.4 5.5 5.9 5.5 4.6 5.5 5.9	6,753 1,197 750 447 654 4,902 2,688 1,074 929 684 2,214 721 1,493
Men										
16 years and over	10,734 1,161 586 575 1,462 8,111 6,627 2,907 2,377 1,342 1,485 771	8,571 565 188 377 1,288 6,718 6,071 2,733 2,173 1,164 647 541 106	79.8 48.7 32.0 65.7 88.1 82.8 91.6 94.0 91.4 86.7 43.6 70.2 14.9	8,018 449 133 315 1,173 6,397 5,783 2,592 2,077 1,115 613 512	74.7 38.6 22.7 54.9 80.2 78.9 87.3 89.1 87.4 83.1 41.3 66.4 14.2	651 30 8 23 112 509 457 212 152 93 52 44	7,367 418 126 293 1,061 5,888 5,327 2,380 1,925 1,022 561 468 93	552 117 54 62 115 321 287 142 97 49 34 29	6.4 20.6 29.0 16.4 8.9 4.8 4.7 5.2 4.5 4.2 5.2 5.3 5.0	2,164 596 398 197 174 1,394 556 174 204 178 838 230 608
Women										
16 years and over	10,335 1,044 483 560 1,269 8,023 6,231 2,539 2,259 1,433 1,792 844 948	5,746 442 132 310 789 4,515 4,099 1,639 1,533 927 416 353 62	55.6 42.4 27.3 55.4 62.2 56.3 65.8 64.5 67.9 64.7 23.2 41.9 6.6	5,273 345 97 247 710 4,219 3,828 1,521 1,428 879 391 334 57	51.0 33.0 20.1 44.2 55.9 52.6 61.4 59.9 63.2 61.4 21.8 39.6 6.0	91 6 - 5 12 74 72 29 24 19 2 2	5,182 339 97 242 698 4,145 3,756 1,493 1,404 860 389 333 56	473 98 35 63 80 296 271 118 106 48 24 19	8.2 22.1 26.4 20.2 10.1 6.6 6.6 7.2 6.9 5.1 5.9 5.4 8.8	4,589 602 352 250 480 3,508 2,132 900 725 506 1,376 491 886

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

HOUSEHOLD DATA ANNUAL AVERAGES

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

(Numbers in thousands)

Employment status, say, and ago	To	tal	WI	nite	Bla	ck	Hispanie	corigin
Employment status, sex, and age	1997	1998	1997	1998	1997	1998	1997	1998
TOTAL								
Divilian noninstitutional population	203,133	205,220	169,993	171,478	24,003	24,373	20,321	21,070
Civilian labor force	136,297	137,673	114,693	115,415	15,529	15,982	13,796	14,317
Percent of population	67.1	67.1	67.5	67.3	64.7	65.6	67.9	67.9
Employed	129,558	131,463	109,856	110,931	13,969	14,556	12,726	13,291
Agriculture	3,399	3,378	3,208	3,160	117	138	660	742
Nonagricultural industries	126,159	128,085	106,648	107,770	13,852	14,417	12,067	12,549
Unemployed	6,739	6,210	4,836	4,484	1,560	1,426	1,069	1,026
Unemployment rate	4.9	4.5	4.2	3.9	10.0	8.9	7.7	7.2
Not in labor force	66,837	67,547	55,301	56,064	8,474	8,391	6,526	6,753
Men, 16 years and over				!				
Civilian noninstitutional population	97,715	98,758	82,577	83,352	10,763	10,927	10,368	10,734
Civilian labor force	73,261	73,959	62,639	63,034	7,354	7,542	8,309	8,571
Percent of population	75.0	74.9	75.9	75.6	68.3	69.0	80.1	79.8
Employed	69,685	70,693	59,998	60,604	6,607	6,871	7,728	8,018
Agriculture	2,552	2,553	2,389	2,376	103	118	571	651
Nonagricultural industries	67,133	68,140	57,608	58,228	6,504	6,752	7,157	7,367
Unemployed	3,577	3,266	2,641	2,431	747	671	582	552
Unemployment rate	4.9	4.4	4.2	3.9	10.2	8.9	7.0	6.4
Not in labor force	24,454	24,799	19,938	20,317	3,409	3,386	2,059	2,164
Men, 20 years and over								
Divilian noninstitutional population	89,879	90,790	76,320	76,966	9,575	9,727	9,250	9,573
Civilian labor force	69,166	69,715	59,126	59,421	6,910	7,053	7,779	8,005
Percent of population	77.0	76.8	77.5	77.2	72.2	72.5	84.1	83.6
Employed	66,284	67,135	56,986	57,500	6,325	6,530	7,307	7,570
Agriculture	2,356	2,350	2,201	2,182	101	112	544	621
Nonagricultural industries	63,927	64,785	54,785	55,319	6,224	6,418	6,763	6,949
Unemployed	2,882	2,580	2 140	1,920	585	524	471	436
Unemployment rate	4.2	3.7	3.6	3.2	8.5	7.4	6.1	5.4
Not in labor force	20,713	21,075	17,194	17,545	2,665	2,673	1,471	1,568
Women, 16 years and over								
Civilian noninstitutional population	105,418	106,462	87,417	88,126	13,241	13,446	9,953	10,335
Civilian labor force	63,036	63,714	52,054	52,380	8,175	8,441	5,486	5,746
Percent of population	59.8	59.8	59.5	59.4	61.7	62.8	55.1	55.6
Employed	59,873	60,771	49,859	50,327	7,362	7,685	4,999	5,273
Agriculture	847	825	819	784	14	20	89	91
Nonagricultural industries	59,026	59,945	49,040	49,543	7,348	7,665	4,910	5,182
Unemployed		2,944	2,195	2,053	813	756	488	473
Unemployment rate	5.0	4.6	4.2	3.9	9.9	9.0	8.9	8.2
Not in labor force	42,382	42,748	35,363	35,746	5,066	5,005	4,466	4,589
Women, 20 years and over								
Civilian noninstitutional population	97,889	98,786	81,492	82,073	12,016	12,203	8,950	9,292
Civilian labor force	59,198	59,702	48,847	49,029	7,686	7,912	5,106	5,304
Percent of population	60.5	60.4	59.9	59.7	64.0	64.8	57.0	57.1
Employed	56,613	57,278	47,063	47,342	7,013	7,290	4,705	4,928
Agriculture	798	768	771	729	13	19	83	85
Nonagricultural industries	55,815	56,510	46,292	46,612	7,000	7,272	4,622	4,843
Unemployed		2,424	1,784	1,688	673	622	401	376
Unemployment rate		4.1	3.7	3.4	8.8	7.9	7.9	7.1
Not in labor force	38,691	39,084	32,645	33,044	4,330	4,291	3,845	3,988
Both sexes, 16 to 19 years							ļ	
Civilian noninstitutional population	15,365	15,644	12,181	12,439	2,412	2,443	2,121	2,204
Civilian labor force	7,932	8,256	6,720	6,965	933	1,017	911	1,007
Percent of population		52.8	55.2	56.0	38.7	41.6	43.0	45.7
Employed	6,661	7,051	5,807	6,089	631	736	714	793
Agriculture	244	261	236	250	3	8	33	36
Nonagricultural industries		6,790	5,571	5,839	628	728	682	757
Unemployed		1,205	912	876	302	281	197	214
Unemployment rate	16.0	14.6	13.6	12.6	32.4	27.6	21.6	21.3
Not in labor force		7,388	5,462	5,475	1,479	1,427	1,210	1,197

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 1998, data reflect new composite estimation procedures and 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 Hisp	anic origin ¹	Mexica	n origin	Puerto Ri	can origin	Cubar	origin
	1997	1998	1997	1998	1997	1998	1997	1998
TOTAL								
Civilian noninstitutional population	20,321	21.070	12,443	13,216	2,139	2.080	1,025	1,062
Civilian labor force	13,796	14,317	8,546	9,096	1,293	1,249	646	651
Percent of population	67.9	67.9	68.7	68.8	60.4	60.0	63.0	61.3
Employed	12,726	13,291	7,884	8,431	1,166	1,145	603	612
Agriculture	660	742	572	662	8	10	5	6
Nonagricultural industries	12,067	12,549	7,312	7,769	1,158	1,135	599	606
Unemployed Unemployment rate	1,069 7.7	1,026 7.2	662 7.7	664 7.3	127 9.8	104 8.3	43 6.6	39 6.0
Not in labor force	6,526	6,753	3,897	4,121	846	832	379	411
Men, 16 years and over								
Civilian noninstitutional population	10,368	10,734	6,529	6,937	1,010	975	520	527
Civilian labor force	8,309	8,571	5,316	5,660	723	672	387	387
Percent of population	80.1	79.8	81.4	81.6	71.6	68.9	74.4	73.5
Employed	7,728	8,018	4,941	5,291	654	615	364	371
Agriculture	571	651	492	579	6	8	4	5
Nonagricultural industries	7,157	7,367	4,450	4,712	648	607	360	36 6
Unemployed	582	552	374	369	69	57	23	16
Unemployment rate	7.0	6.4	7.0	6.5	9.6	8.5	6.0	4.1
Not in labor force	2,059	2,164	1,214	1,276	287	303	133	140
Men, 20 years and over								
Civilian noninstitutional population	9,250	9,573	5,795	6,139	889	872	500	499
Civilian labor force	7,779	8,005	4,965	5,244	669	632	375	372
Percent of population	84.1	83.6	85.7	85.4	75.3	72.4	74.9	74.6
Employed	7,307	7,570	4,659	4,959	619	586	352	359
Agriculture	544	621	466	551	6	8	4	5
Nonagricultural industries	6,763	6,949	4,193	4,408	614	578	348	354
Unemployed	471	436	306	285	50	46	22	13
Unemployment rate Not in labor force	6.1 1,471	5.4 1,568	6.2 831	5.4 895	7.4 220	7.3 241	6.0 125	3.6 127
Women, 16 years and over								1
Civilian noninstitutional population	9,953	10.335	5,913	6,280	1,129	1,105	504	535
Civilian labor force	5,486	5,746	3,231	3,435	570	576	259	264
Percent of population	55.1	55.6	54.6	54.7	50.5	52.2	51.3	49.2
Employed	4,999	5,273	2,943	3,140	512	529	239	241
Agriculture	89	91	80	83	3	2	1	1
Nonagricultural industries	4,910	5,182	2,863	3,057	510	528	239	240
Unemployed	488 8.9	473	288 8.9	296	58	47	20	23
Unemployment rate	4,466	8.2 4,589	2.683	8.6 2,844	10.1 559	8.2 529	7.6 246	8.6 272
Women, 20 years and over	4,400	4,000	2,000	2,044	333	323	240	212
, •					[
Civilian noninstitutional population	8,950	9,292	5,280	5,555	997	1,003	484	509
Civilian labor force	5,106	5,304	2,984	3,119	521	530	251	252
Percent of population	57.0 4,705	57.1 4,928	56.5 2,752	56.1 2,897	52.3 476	52.8 493	51.8 232	49.6 231
Agriculture	83	85	75	77	2 2	2	1	1
Nonagricultural industries	4,622	4,843	2,677	2,820	474	491	232	230
Unemployed	401	376	232	221	45	37	19	22
Unemployment rate	7.9	7.1	7.8	7.1	8.7	7.0	7.4	8.6
Not in labor force	3,845	3,988	2,296	2,436	475	473	233	257
Both sexes, 16 to 19 years		:						
Civilian noninstitutional population	2,121	2,204	1,368	1,523	254	205	40	54
Civilian labor force	911	1,007	598	733	103	87	20	26
Percent of population	43.0	45.7	43.7	48.1	40.4	42.5	49.7	48.1
Employed	714	793	473	575	71	66	18	22
Agriculture	33	36	31	34	-	1	-	_
Nonagricultural industries	682	757	442	541	70	65	18	22
Unemployed	197	214	125	158	32	21	, 2, 2	4
Unemployment rate	21.6	21.3	20.9	21.5	31.2	24.1	(2)	(²)
Not in labor force	1,210	1,197	770	790	151	118	20	28

 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA ANNUAL AVERAGES

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	To	otal	М	en	Wo	men	W	hite	Bla	ack	Hispan	ic origin
	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
TOTAL												
Civilian noninstitutional population Civilian labor force	114,833 67.4	171,983 115,779 67.3 111,855 65.0 3,924 3.4	81,173 61,982 76.4 59,736 73.6 2,246 3.6	81,986 62,494 76.2 60,497 73.8 1,998 3.2	89,153 52,851 59.3 50,782 57.0 2,069 3.9	89,997 53,285 59.2 51,359 57.1 1,926 3.6	143,829 96,846 67.3 93,687 65.1 3,159 3.3	144,900 97,206 67.1 94,330 65.1 2,877 3.0	19,076 12,813 67.2 11,882 62.3 930 7.3	19,384 13,168 67.9 12,324 63.6 844 6.4	15,577 10,880 69.8 10,214 65.6 666 6.1	16,134 11,232 69.6 10,615 65.8 617 5.5
Less than a high school diploma												
Civilian noninstitutional population Civilian labor force	29,757 12,564 42.2 11,546 38.8 1,018 8.1	29,375 12,561 42.8 11,673 39.7 887 7.1	14,119 7,766 55.0 7,210 51.1 557 7.2	13,975 7,711 55.2 7,238 51.8 472 6.1	15,638 4,798 30.7 4,336 27.7 461 9.6	15,400 4,850 31.5 4,435 28.8 415 8.6	23,785 10,144 42.6 9,414 39.6 730 7.2	23,557 10,146 43.1 9,510 40.4 635 6.3	4,611 1,816 39.4 1,578 34.2 238 13.1	4,459 1,785 40.0 1,579 35.4 207 11.6	6,968 4,084 58.6 3,738 53.7 346 8.5	7,138 4,191 58.7 3,889 54.5 303 7.2
High school graduates, no college												
Civilian noninstitutional population Civilian labor force	57,424 37,769 65.8 36,163 63.0 1,606 4.3	57,524 37,465 65.1 35,976 62.5 1,489 4.0	26,076 19,967 76.6 19,124 73.3 844 4.2	26,212 19,961 76.2 19,188 73.2 773 3.9	31,348 17,802 56.8 17,039 54.4 763 4.3	31,313 17,504 55.9 16,788 53.6 717 4.1	48,728 31,699 65.1 30,552 62.7 1,147 3.6	48,709 31,313 64.3 30,249 62.1 1,064 3.4	6,837 4,798 70.2 4,409 64.5 389 8.1	6,910 4,864 70.4 4,504 65.2 360 7.4	4,154 3,123 75.2 2,945 70.9 178 5.7	4,296 3,195 74.4 3,018 70.2 177 5.5
Less than a bachelor's degree ¹											:	
Civilian noninstitutional population Civilian labor force	41,946 31,343 74.7 30,321 72.3 1,022 3.3	42,261 31,412 74.3 30,477 72.1 935 3.0	19,387 15,892 82.0 15,393 79.4 499 3.1	19,488 15,860 81.4 15,415 79.1 445 2.8	22,560 15,451 68.5 14,928 66.2 523 3.4	22,773 15,552 68.3 15,062 66.1 489 3.1	35,552 26,326 74.0 25,574 71.9 752 2.9	35,643 26,211 73.5 25,527 71.6 685 2.6	4,890 3,884 79.4 3,665 74.9 219 5.6	5,042 4,000 79.3 3,795 75.3 204 5.1	2,830 2,309 81.6 2,214 78.2 95 4.1	2,934 2,373 80.9 2,282 77.8 91 3.8
Some college, no degree												
Civilian noninstitutional population Civilian labor force	29,448 21,430 72.8 20,678 70.2 752 3.5	29,526 21,311 72.2 20,626 69.9 684 3.2	14,009 11,252 80.3 10,876 77.6 377 3.3	13,883 11,018 79.4 10,684 77.0 335 3.0	15,439 10,178 65.9 9,802 63.5 376 3.7	15,642 10,293 65.8 9,943 63.6 350 3.4	24,817 17,845 71.9 17,302 69.7 543 3.0	24,715 17,592 71.2 17,101 69.2 491 2.8	3,640 2,855 78.4 2,681 73.6 175 6.1	3,768 2,938 78.0 2,776 73.7 162 5.5	2,056 1,672 81.3 1,603 77.9 69 4.1	2,120 1,689 79.7 1,622 76.5 68 4.0
Associate degree												
Civilian noninstitutional population Civilian labor force	12,498 9,913 79.3 9,643 77.2 270 2.7	12,735 10,101 79.3 9,850 77.3 251 2.5	5,378 4,640 86.3 4,517 84.0 123 2.6	5,604 4,842 86.4 4,731 84.4 111 2.3	7,121 5,273 74.1 5,126 72.0 147 2.8	7,131 5,259 73.7 5,119 71.8 140 2.7	10,735 8,481 79.0 8,271 77.1 210 2.5	10,928 8,619 78.9 8,426 77.1 193 2.2	1,250 1,029 82.3 984 78.7 45 4.3	1,273 1,061 83.4 1,020 80.1 42 3.9	773 637 82.3 611 79.0 26 4.0	814 683 84.0 660 81.1 23 3.4
College graduates												
Civilian noninstitutional population Civilian labor force	41,200 33,157 80.5 32,488 78.9 669 2.0	42,822 34,342 80.2 33,730 78.8 612 1.8	21,592 18,357 85.0 18,010 83.4 347 1.9	22,312 18,963 85.0 18,656 83.6 307 1.6	19,608 14,800 75.5 14,478 73.8 322 2.2	20,510 15,379 75.0 15,074 73.5 305 2.0	35,764 28,677 80.2 28,148 78.7 529 1.8	36,991 29,537 79.8 29,044 78.5 493 1.7	2,738 2,314 84.5 2,230 81.4 84 3.6	2,973 2,520 84.7 2,446 82.3 74 2.9	1,625 1,364 83.9 1,316 81.0 47 3.5	1,766 1,474 83.4 1,427 80.8 47 3.2

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 1998, data reflect new composite estimation procedures and 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)

			·· · · · · · · · · · · · · · · · · ·			1998			 	
		Euli-tir	ne workers	Em	ployed ¹	Part time	workers		Unem	ployed
			At work			l	ork ²		1	
Age, sex, and race	Total	35 hours or more	1 to 34 hours for economic or noneconomic reasons	Not at work	Total	Part time for economic reasons	Part time for noneconomic reasons	Not at work	Looking for full-time work	Looking for part-ti- me work
TOTAL										
Total, 16 years and over 16 to 19 years 16 to 17 years 18 to 19 years 20 years and over 20 to 24 years	108,202 2,320 353 1,967 105,882 9,273	91,880 1,914 271 1,643 89,966 7,926	12,260 344 70 275 11,915 1,106	4,062 61 12 49 4,001 240	23,261 4,731 2,409 2,322 18,530 3,285	2,497 300 60 240 2,197 466	19,239 4,233 2,242 1,990 15,007 2,667	1,524 198 107 91 1,326 151	4,916 584 164 420 4,332 910	1,293 621 409 212 672 171
25 years and over 25 to 54 years 55 years and over	96,609 84,274 12,336	82,040 71,912 10,127	10,810 9,240 1,570	3,760 3,121 639	15,246 10,985 4,261	1,731 1,513 218	12,339 8,665 3,674	1,175 806 369	3,423 3,097 325	501 362 139
Men, 16 years and over 16 to 19 years 20 years and over 20 to 24 years 25 years and over 25 to 54 years 55 years and over	63,189 1,351 61,837 5,294 56,543 49,092 7,451	55,080 1,133 53,947 4,627 49,320 43,061 6,259	6,136 186 5,950 557 5,393 4,555 838	1,973 32 1,940 110 1,830 1,476 355	7,504 2,207 5,297 1,344 3,953 2,182 1,772	1,063 137 925 218 708 612 96	6,026 1,976 4,050 1,074 2,975 1,440 1,535	416 94 322 51 271 130 141	2,707 340 2,366 509 1,857 1,648 209	559 345 214 73 141 80 61
Women, 16 years and over 16 to 19 years 20 years and over 20 to 24 years 25 years and over 25 to 54 years 55 years and over	45,014 969 44,045 3,979 40,066 35,181 4,885	36,800 781 36,019 3,299 32,720 28,851 3,868	6,124 158 5,965 549 5,416 4,685 732	2,090 29 2,061 131 1,930 1,646 284	15,757 2,524 13,233 1,941 11,292 8,803 2,490	1,435 163 1,272 248 1,024 901	13,214 2,257 10,957 1,593 9,364 7,225 2,139	1,108 104 1,004 100 905 677 228	2,210 244 1,966 400 1,566 1,449 116	734 276 458 98 360 282 78
White Men, 16 years and over 16 to 19 years 20 years and over 20 to 24 years 25 years and over 25 to 54 years 55 years and over	54,206 1,188 53,017 4,540 48,477 41,872 6,605	47,239 999 46,240 3,971 42,269 36,733 5,536	5,257 162 5,095 475 4,620 3,876 745	1,709 27 1,682 95 1,588 1,264 324	6,398 1,915 4,483 1,118 3,365 1,763 1,602	829 113 716 172 544 466 78	5,209 1,723 3,487 902 2,585 1,190 1,395	360 80 280 44 236 107 128	1,999 242 1,756 349 1,408 1,237 170	432 268 164 56 108 57
Women, 16 years and over 16 to 19 years 20 years and over 20 to 24 years 25 years and over 25 to 54 years 55 years and over	36,553 816 35,738 3,241 32,497 28,310 4,187	29,792 663 29,130 2,698 26,431 23,118 3,313	5,039 129 4,910 443 4,467 3,838 629	1,722 24 1,698 100 1,599 1,353 246	13,774 2,170 11,604 1,612 9,992 7,766 2,226	1,089 136 953 188 765 672 93	11,695 1,945 9,749 1,342 8,407 6,483 1,925	990 88 902 83 819 611 208	1,481 163 1,318 255 1,063 974 89	572 202 370 72 298 232 66
Black										_
Men, 16 years and over	6,148 125 6,023 550 5,473 4,922 551	5,322 104 5,218 478 4,740 4,279 460	637 17 620 62 558 489 69	189 3 185 10 175 153 22	723 216 507 136 371 256 115	168 21 147 37 110 100	520 185 334 94 240 142 98	34 10 25 4 21 13 7	572 85 487 140 347 323 25	99 62 37 11 26 18 8
Women, 16 years and over 16 to 19 years 20 years and over 20 to 24 years 25 years and over 25 to 54 years 55 years and over	6,281 122 6,159 579 5,581 5,065 516	5,166 92 5,073 466 4,607 4,200 407	828 25 803 87 715 634 81	288 5 283 25 258 230 28	1,404 273 1,131 231 900 701 199	278 22 256 49 207 184 23	1,045 237 807 170 637 476 161	81 13 68 12 56 41	624 69 555 129 426 407 19	131 65 66 21 45 36 9

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA ANNUAL AVERAGES

9. Employed persons by occupation, sex, and age

(Numbers in thousands)

	To	otal		M	en			Wor	men	
Occupation		ears over	16 y and	ears over	20 y and		16 y and		20 y and	
	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
Total	129,558	131,463	69,685	70,693	66,284	67,135	59,873	60,771	56,613	57,278
Managerial and professional specialty	37,686	38,937	19,249	19,867	19,131	19,738	18,437	19,070	18,299	18,890
Executive, administrative, and managerial	18,440 694	19,054 719	10,271	10,585 389	10,223 372	10,534 388	8,170 322	8,469 330	8,124 322	8,407 329
Officials and administrators, public administration Other executive, administrative, and managerial		13,635	7.951	8,181	7,911	8,137	5,191	5,454	5,154	5,406
Management-related occupations		4,700	1,948	2,015	1,940	2,008	2,656	2,685	2,648	2,672
Professional specialty		19,883	8,978	9,282	8,907	9,204	10,267	10,602	10,176	10,483
Engineers	2,036	2,052	1,841	1,824	1,840	1,822	195	228	194	228
Mathematical and computer scientists		1,747	1,040	1,243	1,034	1,235	454	505	453	501
Natural scientists		519	365	359 798	365 769	359 797	164 259	161 285	164 258	160 284
Health diagnosing occupations Health assessment and treating occupations		1,083	769 391	428	390	427	2,495	2,470	2,492	2,467
Teachers, college and university		919	498	530	492	524	371	389	364	384
Teachers, except college and university	l	4,962	1,166	1,225	1,149	1,208	3,632	3,737	3,594	3,683
Lawyers and judges	925	951	678	679	677	678	247	272	246	272
Other professional specialty occupations		4,750	2,231	2,196	2,192	2,154	2,450	2,555	2,409	2,502
Technical, sales, and administrative support		38,521	13,760	13,792	12,981	12,973	24,549	24,728	22,859	22,893
Technicians and related support		4,261	2,028	1,976	1,989	1,938	2,186	2,285	2,153	2,251
Health technologists and technicians		1,733	336	319	333	312	1,357	1,414	1,339	1,400
Engineering and science technicians		1,255 1,273	955 737	930 728	932 725	908 718	291 538	325 545	281 532	314 537
Technicians, except health, engineering, and science	l'	15,850	7,840	7,875	7,320	7,324	7,894	7,975	6.804	6,778
Supervisors and proprietors		4,719	2,855	2,829	2,833	2,809	1,780	1,890	1,754	1,855
Sales representatives, finance and business services		2,668	1,464	1,504	1,445	1,470	1,149	1,165	1,124	1,126
Sales representatives, commodities, except retail		1,584	1,132	1,173	1,126	1,166	375	411	369	402
Sales workers, retail and personal services		6,784	2,364	2,344	1,892	1,855	4,523	4,440	3,493	3,330
Sales-related occupations	91	94	24	26	23	24	67	68	12 000	12 963
Administrative support, including clerical		18,410 698	3,892	3,941 279	3,673 274	3,711 277	14,469 410	14,469	13,902 406	13,863 417
Supervisors		375	162	170	158	166	229	205	223	202
Secretaries, stenographers, and typists		3,599	79	85	73	80	3,613	3,515	3,519	3,415
Financial records processing	2,196	2,214	172	175	165	166	2,024	2,039	1,998	2,008
Mail and message distributing		984	606	611	588	595	371	374	360	362
Other administrative support, including clerical	10,420	10,539	2,597	2,622	2,413	2,428	7,823	7,917	7,395	7,459
Service occupations		17,836	7,122	7,222	6,134	6,237	10,416	10,614	9,284	9,436
Private nousehold		847	37	46	30	40 1,948	758 411	801 431	670 373	708 385
Protective service		2,417 14,572	1,890 5,195	1,986	1,837 4,267	4,249	9,247	9,382	8,241	8.343
Food service		6,071	2,590	2,639	1,876	1,919	3,409	3,432	2,705	2,726
Health service		2,480	289	285	278	266	2,158	2,194	2,075	2,097
Cleaning and building service		3,112	1,764	1,728	1,641	1,597	1,344	1,384	1,286	1,317
Personal service	2,888	2,909	552	537	473	467	2,335	2,371	2,174	2,203
Precision production, craft, and repair		14,411	12,868	13,208	12,575	12,878	1,256	1,203	1,229	1,181
Mechanics and repairers		4,786	4,494	4,592	4,400	4,475	181	194	178	191
Construction tradesOther precision production, craft, and repair	5,378 4,071	5,594	5,251 3,123	5,485 3,131	5,113	5,319 3,084	127 948	109	122 928	104 886
	1			1			4.540	4 407	4.040	4.004
Operators, fabricators, and laborers	18,399	18,256	13,858	13,769	12,876	12,736 4,695	4,540 3,000	4,487 2,909	4,318 2,916	4,264 2,826
Machine operators, assemblers, and inspectors Transportation and material moving occupations	7,962 5,389	7,791	4,962 4,872	4,818	4,794 4,774	4,703	518	545	500	531
Motor vehicle operators		4,069	3,629	3,601	3,548	3,517	461	468	445	455
Other transportation and material moving occupations		1,294	1,243	1,217	1,226	1,187	57	77	55	76
Handlers, equipment cleaners, helpers, and laborers	5,048	5,102	4,025	4,069	3,309	3,338	1,023	1,033	901	908
Construction laborers	. 811	821	773	784	703	706	37	37	36	35
Other handlers, equipment cleaners, helpers, and laborers	4,237	4,282	3,252	3,285	2,605	2,632	985	996	865	873
Farming, forestry, and fishing		3,502	2,828	2,835	2,587	2,572	675	668	625	614
Farm operators and managers	1,317	1,187	1,012	913	1,000	905	305	274 394	302	270 343
Other farming, forestry, and fishing occupations	. 2,186	2,315	1,816	1,921	1,587	1,666	3/1	394	323	343

NOTE: Beginning in January 1998, data reflect new composite estimation

10. Employed persons by occupation, race, and sex

(Percent distribution)

Occupation and race	To	otal	М	en	Wor	nen
Occupation and race	1997	1998	1997	1998	1997	1998
TOTAL						
Total, 16 years and over (thousands)		131,463 100.0	69,685 100.0	70,693 100.0	59,873 100.0	60,771 100.0
fanagerial and professional specialty	29.1	29.6	27.6	28.1	30.8	31.4
Executive, administrative, and managerial		14.5	14.7	15.0	13.6	13.9 17.4
Professional specialtyechnical, sales, and administrative support		15.1 29.3	12.9 19.7	13.1 19.5	17.1 41.0	40.7
Technicians and related support		3.2	2.9	2.8	3.7	3.8
Sales occupations		12.1	11.3	11.1	13.2	13.1
Administrative support, including clerical		14.0	5.6	5.6	24.2	23.8
Service occupations		13.6 .6	10.2	10.2 .1	17.4 1.3	17.5 1.3
Private household		1.8	2.7	2.8	.7	.7
Service, except private household and protective		11.1	7.5	7.3	15.4	15.4
Precision production, craft, and repair	10.9	11.0	18.5	18.7	2.1	2.0
Operators, fabricators, and laborers	14.2	13.9	19.9	19.5	7.6	7.4
Machine operators, assemblers, and inspectors		5.9 4.1	7.1 7.0	6.9 6.8	5.0 .9	4.8 .9
Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers		3.9	5.8	5.8	1.7	1.7
Farming, forestry, and fishing		2.7	4.1	4.0	1.1	1.1
White]			
Total, 16 years and over (thousands)		110,931 100.0	59,998 100.0	60,604 100.0	49,859 100.0	50,327 100.0
Managerial and professional specialty	30.1	30.7	28.5	29.1	32.0	32.6
Executive, administrative, and managerial	14.9	15.2	15.5	15.8	14.3	14.6
Professional specialty	15.2	15.5	13.0	13.3	17.8	18.1 41.1
Technical, sales, and administrative support		29.3 3.2	19.8 2.9	19.5 2.7	41.6 3.7	3.8
Technicians and related support Sales occupations		12.4	11.7	11.5	13.4	13.4
Administrative support, including clerical		13.7	5.2	5.2	24.5	24.0
Service occupations	12.4	12.4	9.2	9.2	16.2	16.3
Private household		.6 1.7	(¹) 2.5	(¹)	1.2 .6	1.3 .6
Protective service		10.1	6.6	6.5	14.4	14.4
Precision production, craft, and repair		11.5	19.1	19.4	2.0	1.9
Operators, fabricators, and laborers		13.2	19.0	18.5	6.9	6.8
Machine operators, assemblers, and inspectors		5.5	6.9	6.6	4.4	4.3
Transportation and material moving occupations		3.9	6.7 5.4	6.5 5.4	.8 1.6	.8. 1.6
Handlers, equipment cleaners, helpers, and laborers	_	2.9	4.4	4.3	1.3	1.2
Black					<u> </u>	
Total, 16 years and over (thousands)	13,969 100.0	14,556 100.0	6,607 100.0	6,871 100.0	7,362 100.0	7,685 100.0
Managerial and professional specialty	19.8	20.2	16.8	17.0	22.4	23.2
Executive, administrative, and managerial	. 9.1	9.4	8.5	8.6	9.6	10.1
Professional specialty	. 10./	10.8	8.4	8.4	12.8	13.0
Technical, sales, and administrative support		29.3 3.0	18.1 2.6	18.3 2.5	38.5 3.2	39.1 3.5
Sales occupations		9.7	6.8	7.8	11.2	11.4
Administrative support, including clerical	. 16.8	16.5	8.7	8.0	24.1	24.2
Service occupations	. 22.1	21.6	18.1	17.8	25.7	25.0
Private household	. .9 . 3.1	.8 3.2	1.1 4.8	.1 4.8	1.7	1.5
Service, except private household and protective		17.6	13.2	12.9	22.5	21.5
Precision production, craft, and repair	8.2	8.0	14.9	14.6	2.2	2.0
Operators, fabricators, and laborers	. 19.9	19.7	29.9	30.1	10.9	10.4
Machine operators, assemblers, and inspectors	. 8.4	8.2	9.6	9.7	7.4	7.0
	. 5.9	6.0	11.0	11.1	1.3	1.4
Transportation and material moving occupations		5.5	9.4	9.3	2.2	2.0

¹ Less than 0.05 percent. NOTE: Beginning in January 1998, data reflect new composite estimation

(Numbers in thousands)

		19	98	
Occupation		P	ercent of tota	al:
	Total employed	Women	Black	Hispanii origin
Total, 16 years and over	131,463	46.2	11.1	10.1
anagerial and professional specialty	38,937	49.0	7.6	5.0
xecutive, administrative, and managerial	19,054	44.4	7.2	5.4
Officials and administrators, public administration		48.5 25.2	12.1 15.7	4.5 3.6
Administrators, protective services		53.3	6.8	4.4
Personnel and labor relations managers	162	65.9	7.7	4.3
Purchasing managers		39.4	5.0	5.5
Managers, marketing, advertising, and public relations		38.5 62.2	3.8 10.6	3.4
Managers, medicine and health		79.2	6.8	5.3
Managers, food serving and lodging establishments	1,453	43.9	8.8	8.7
Managers, properties and real estate		52.2	7.1	9.4
Management-related occupations		57.1 58.2	9.7 9.4	5.4 4.9
Accountants and auditors		71.0	13.1	1.6
Other financial officers		53.9	7.7	5.0
Management analysts		41.4	9.1	2.4
Personnel, training, and labor relations specialists Buyers, wholesale and retail trade, except farm products		68.3 48.4	14.7 5.9	5.8 8.8
Construction inspectors		6.6	2.8	9.1
Inspectors and compliance officers, except construction	-	36.0	12.8	9.7
Professional specialty	19,883	53.3	7.9	4.6
Engineers, architects, and surveyors	2,224	11.5	4.0	3.9
Architects		17.5	2.0 4.1	5.2 3.8
Engineers Aerospace engineers	1	11.1 8.4	3.3	2.6
Chemical engineers	1	16.5	4.6	1.0
Civil engineers	296	12.1	2.0	4.6
Electrical and electronic engineers		9.0 18.3	5.3 5.3	3.7 5.6
Industrial engineers		7.0	3.3	2.0
Mathematical and computer scientists	1,747	28.9	7.2	4.2
Computer systems analysts and scientists	1,471	26.9	7.2	3.6
Operations and systems researchers and analysts		41.9 30.9	8.8 3.9	8.5
Natural scientists		32.9	6.1	3.0
Geologists and geodesists		11.6	.3	2.0
Biological and life scientists	104	38.8	3.3	1.5
Medical scientists Health diagnosing occupations		45.2 26.3	5.6 4.2	5.2 4.0
Physicians		26.6	4.9	4.8
Dentists	155	19.8	2.8	2.0
Veterinarians	58 2,898	32.5 85.2	1.9 8.9	4.9 3.4
Health assessment and treating occupations	2,032	92.5	9.3	3.2
Pharmacists	180	44.0	4.1	5.1
Dietitians		86.0	18.2	4.3
Therapists		75.4 60.8	7.3 11.7	3.8
Occupational therapists	L	83.0	6.5	.7
Physical therapists	134	72.9	4.2	5.4
Speech therapists	. 105	92.6	1.9	6.3
Physicians' assistants		52.6 42.3	10.6 5.8	2.8 3.6
Teachers, college and university Teachers, except college and university		75.3	10.0	5.4
Prekindergarten and kindergarten	586	97.8	14.4	8.0
Elementary school	. 1,951	84.0	10.5	5.6
Secondary school	1,225 381	56.9 82.0	8.9 11.0	4.2
Special education	230	68.8	13.2	5.5
Librarians, archivists, and curators	236	80.8	5.9	5.4
Librarians	. 208	83.4	5.2	5.9
Social scientists and urban planners	. 430	54.7 46.3	6.7 3.6	5.2 6.5
Economists		62.1	10.2	4.0
Social, recreation, and religious workers	1	55.1	17.5	5.9

(Numbers in thousands)

		19	98	_
Occupation	Total	Р	ercent of tota	al:
	Total employed	Women	Black	Hispanic origin
Social workers	749	68.4	23.4	6.4
Recreation workers	132	75.1	15.9	4.8
Clergy	325	12.0	8.7	6.1
Lawyers and judges		28.6	4.3	3.0
Lawyers		28.5	4.0	3.0
Writers, artists, entertainers, and athletes		51.4	6.2	5.6
Authors	130 73	55.0 57.4	2.2 3.5	1.3 1.2
Technical writers Designers	692	58.0	3.0	6.6
Musicians and composers		39.7	10.8	7.2
Actors and directors	130	38.7	8.2	4.5
Painters, sculptors, craft artists, and artist printmakers		53.9	4.7	5.0
Photographers	154	38.1	5.5	7.1
Editors and reporters	274 170	51.0 66.3	8.9 8.8	3.1 4.0
Public relations specialists	l .	17.1	10.7	5.0
Athletes	1	23.7	12.7	3.7
Fechnical, sales, and administrative support	38,521	64.2	11.1	8.3
Technicians and related support		53.6	10.4	6.6
Health technologists and technicians		81.6	13.9	7.0
Clinical laboratory technologists and technicians		78.5	15.0	6.4
Dental hygienists		99.1	3.9	3.9
Radiologic technicians		69.5 96.0	8.2 17.4	2.0 5.8
Licensed practical nurses		20.8	8.6	7.6
Electrical and electronic technicians		16.9	9.3	8.8
Drafting occupations		19.3	3.5	6.2
Surveying and mapping technicians	71	12.8	3.5	8.2
Science technicians	285	43.3	8.8	5.8
Biological technicians		68.2	4.0	4.9
Chemical technicians		21.2 42.8	12.9 7.2	5.3 5.6
Technicians, except health, engineering, and science Airplane pilots and navigators		3.4	1.9	2.5
Computer programmers	I	28.5	6.4	4.9
Legal assistants		82.0	8.1	7.2
Sales occupations		50.3	8.9	7.9
Supervisors and proprietors		40.1	6.5	6.3
Sales representatives, finance and business services		43.6 41.5	7.6 9.1	4.8 4.2
Real estate sales		53.0	3.9	4.1
Securities and financial services sales		29.1	6.4	3.7
Advertising and related sales	186	58.3	8.9	3.1
Sales occupations, other business services		41.3	11.1	7.4
Sales representatives, commodities, except retail		26.0	2.9	5.4
Sales representatives, mining, manufacturing, and wholesale		26.4 65.4	2.9 12.5	5.6 10.7
Sales workers, motor vehicles and boats		11.1	8.8	7.4
Sales workers, apparel	447	80.2	14.5	9.7
Sales workers, shoes	107	65.2	16.7	13.4
Sales workers, furniture and home furnishings	152	49.2	4.0	7.7
Sales workers, radio, television, hi-fi, and appliances		25.8 24.1	10.0 5.7	10.4 5.7
Sales workers, hardware and building supplies		10.6	4.5	10.4
Sales workers, other commodities		68.3	8.5	9.3
Sales counter clerks	205	67.7	10.1	14.6
Cashiers	3,025	78.2	16.8	12.7
Street and door-to-door sales workers		76.3	8.5	9.0
News vendors		36.8 72.7	9.2 6.6	2.9 3.7
Demonstrators, promoters, and models		79.3	6.9	4.2
=	18,410	78.6	13.1	9.0
Administrative support occupations, including clerical	1 000	60.1	15.1	5.9
Administrative support occupations, including clerical	698			
Administrative support occupations, including clerical Supervisors, administrative support Supervisors, general office	397	69.1	14.1	6.8
Administrative support occupations, including clerical Supervisors, administrative support Supervisors, general office Supervisors, financial records processing	397 88	81.8	8.0	3.6
Administrative support occupations, including clerical	397 88 192			

(Numbers in thousands)

		19	98	
Occupation		Р	ercent of tot	al:
Оссарация	Total employed	Women	Black	Hispanio origin
Secretaries, stenographers, and typists	3,599	97.6	9.6	7.0
Secretaries	2,914	98.4	8.5	7.0
Stenographers	106	94.2	3.2	6.5
Typists	580	94.3	16.5	7.1
Information clerks	1,965	89.0	11.5	10.7
Interviewers	166	81.3	16.2	7.4
Hotel clerks	126	79.2	13.9	6.2
Transportation ticket and reservation agents	273 1,006	77,1	9.5	9.3 12.5
Receptionists	1,063	95.5 79.2	10.5 14.5	10.6
Order clerks	246	75.2	20.2	11.4
Personnel clerks, except payroll and timekeeping		87.1	14.0	15.9
Library clerks	173	75.5	10.3	6.1
File clerks	348	80.3	14.5	10.8
Records clerks	205	82.5	10.7	11.9
Financial records processing	2,214	92.1	7.7	6.5
Bookkeepers, accounting, and auditing clerks	1,726	93.0	6.8	6.0
Payroll and timekeeping clerks	146	89.7	10.6	8.8
Billing clerks	185 52	87.2 83.7	9.3 8.9	7.9 9.2
Billing, posting, and calculating machine operators	105	94.1	15.7	6.1
Duplicating, mail and other office machine operators	81	55.7	18.9	16.6
Communications equipment operators	175	81.7	25.9	14.3
Telephone operators	159	85.8	26.8	13.1
Mail and message distributing	984	38.0	21.1	10.3
Postal clerks, except mail carriers	319	47.2	28.2	8.5
Mail carriers, postal service	333	29.7	17.1	9.9
Mail clerks, except postal service	178	49.7	24.5	12.4
Messengers	155 1.945	23.1 45.1	11.4 14.1	12.3 12.7
Material recording, scheduling, and distributing clerks	235	45.1 49.4	11.0	8.7
Production coordinators	255	56.7	5.3	7.0
Traffic, shipping, and receiving clerks	628	31.6	17.3	17.0
Stock and inventory clerks	452	42.9	15.5	14.8
Weighers, measurers, and checkers and samplers	51	52.4	22.8	9.4
Expediters	272	67.9	12.7	10.4
Adjusters and investigators		74.7	16.3	8.0
Insurance adjusters, examiners, and investigators	476	72.1	12.2	6.6
Investigators and adjusters, except insurance	1,049 94	75.6 85.8	17.1	7.7
Eligibility clerks, social welfare	195	70.5	17.5 21.5	14.7
Bill and account collectors	3,496	83.1	14.7	9.7
General office clerks	735	81.1	15.3	10.8
Bank tellers	416	89.5	11.0	9.0
Data-entry keyers	711	81.8	17.4	8.4
Statistical clerks	100	80.5	19.4	7.1
Teachers' aides	633	93.0	15.1	13.5
ervice occupations	17,836	59.5	17.6	15.0
Private household	847	94.6	13.7	30.9
Child care workers	278	96.5	9.4	19.5
Cleaners and servants	549	94.3	15.4	37.0 8.5
rotective service		17.8 9.3	19.1 14.2	7.5
Supervisors	i	11.3	10.5	6.0
Guards		11.8	24.9	5.3
Firefighting and fire prevention		2.5	10.9	5.3
Firefighting		2.3	11.8	3.9
Police and detectives		16.3	19.4	8.8
Police and detectives, public service		11.5	15.2	10.0
Sheriffs, bailiffs, and other law enforcement officers		17.0	16.8	8.0
Correctional institution officers	299	25.4 26.0	29.2	6.8 9.2
Guards		19.0	22.4 25.1	9.2
service occupations, except private household and protective service	ļ	64.4	17.6	15.1
Food preparation and service occupations	6,071	56.5	11.8	17.0
Supervisors, food preparation and service		67.4	13.8	12.4
outportion of 1000 brother and out 100 million and 100 million	324	54.6	4.3	6.7
Bartenders	1 25-	1 0-1.0	7.0	1

(Numbers in thousands)

		19	30	
Occupation	Total	Р	ercent of tot	al:
	Total employed	Women	Black	Hispan origin
Cooks	2,135	40.9	16.6	21.9
Food counter, fountain and related occupations	339	69.1	10.3	10.8
Kitchen workers, food preparation	269	69.0	12.1	11.1
Waiters' and waitresses' assistants	559	53.4	10.7	18.8
Miscellaneous food preparation		46.8	14.0	25.6
Health service occupations		88.5	30.1	10.0
Dental assistants	230	98.1	6.1	12.1
Health aides, except nursing		78.9 89.0	24.4 34.0	9.3 9.8
Nursing aides, orderlies, and attendants		44.5	22.8	20.5
Cleaning and building service occupations	1	39.1	21.6	17.7
Maids and housemen		82.8	26.7	25.0
Janitors and cleaners		34.8	21.7	19.6
Pest control occupations		4.1	22.1	12.0
Personal service occupations		81.5	13.5	9.8
Supervisors		66.8	9.2	6.0
Barbers		18.5	39.4	11.8
Hairdressers and cosmetologists	763	90.8	11.3	8.2
Attendants, amusement and recreation facilities	215	43.2	9.3	5.6
Public transportation attendants	124	86.3	12.9	4.1
Welfare service aides		86.8	25.1	15.9
Family child care providers		97.1 95.9	11.2 16.0	10.7
•			·	
cision production, craft, and repair		8.3	8.0	12.4
echanics and repairersechanics and repairers	l	4.0	7.9	10.4
Supervisors		5.8	5.8	8.1
Mechanics and repairers, except supervisors		4.0	8.0	10.5
Vehicle and mobile equipment mechanics and repairers		1.0 .8	7.6 8.3	12.6
Automobile mechanics		 6.	9.2	13.7
Bus, truck, and stationary engine mechanics		3.7	8.6	11.7
Aircraft engine mechanics	l	1.3	3.1	10.5
Small engine repairers	1	.8	6.1	17.1
Heavy equipment mechanics	1	.2	4.7	10.5
Industrial machinery repairers		2.1	8.0	8.8
Electrical and electronic equipment repairers	l	11.1	10.8	9.0
Electronic repairers, communications and industrial equipment		6.7	13.2	8.4
Data processing equipment repairers		16.9	7.5	8.0
Telephone installers and repairers	232	12.0	11.9	9.2
Miscellaneous electrical and electronic equipment repairers	83	7.2	10.6	10.3
Heating, air conditioning, and refrigeration mechanics		1.5	5.8	9.0
Miscellaneous mechanics and repairers		5.0	7.2	9.2
Office machine repairers		2.1	7.6	7.0
Millwrights		1.5	7.1	5.3
onstruction trades		2.0	7.1 4.7	14.0
Supervisors	4.839	2.0	7.5	14.9
Brickmasons and stonemasons	195	1.2	17.8	13.3
Tile setters, hard and soft	63	1.0	9.1	23.0
Carpet installers	135	1.6	4.7	18.0
Carpenters	1,346	1.2	5.3	13.7
Drywall installers	180	2.2	4.7	22.2
Eléctricians		1.9	6.9	7.9
Electrical power installers and repairers		.7	12.3	11.3
Painters, construction and maintenance		4.7	7.0	24.
Plumbers, pipefitters, and steamfitters	531	.9	7.0	10.0
Concrete and terrazzo finishers		4.4	25.2 4.2	20. 11.
Glaziers		6.4	8.7	27.
Roofers		.8	9.7	22.
Structural metalworkers		1.5	5.4	6.8
dractive occupations		1.4	7.0	11.8
recision production occupations	l	23.0	9.5	12.
Supervisors		18.2	10.9	9.8
Precision metalworking		6.6	5.6	8.9
Tool and die makers	138	.2	1.9	4.5
Machinists	535	5.7	6.2	8.6
Sheet-metal workers		4.1	5.9	8.0
Precision woodworking occupations	. 130	9.9	6.8	15.

(Numbers in thousands)

		19	98	
Occupation	Total	P	ercent of tota	al:
	employed	Women	Black	Hispanio origin
Cabinet makers and bench carpenters	89	5.5	3.8	13.6
Precision textile, apparel, and furnishings machine workers		46.7	12.4	20.5
Dressmakers	67	88.5	10.4	14.4
Tailors	50	33.1	15.6	18.8
Upholsterers		21.8	10.7	24.9
Precision workers, assorted materials		55.7	10.5	15.8
Optical goods workers		55.4	7.8	5.2
Dental laboratory and medical appliance technicians	54	23.0	6.8	12.6
Electrical and electronic equipment assemblers		67.8	13.5	17.7
Precision food production occupations		34.7	11.2	25.8
Butchers and meat cutters		20.5 44.9	12.2 12.7	32.0 17.6
Bakers		23.1	10.4	7.5
Precision inspectors, testers, and related workers		23.5	10.4	7.6
Inspectors, testers, and graders		2.6	11.3	7.0
Water and sewage treatment plant operators		4.7	9.4	5.8
Stationary engineers	130	1.1	14.6	6.8
perators, fabricators, and laborers		24.6	15.7	16.0
Machine operators, assemblers, and inspectors	7,791	37.3	15.4	17.2
Machine operators and tenders, except precision		37.5	16.0	18.5
Metalworking and plastic working machine operators		17.4	10.3	11.7
Lathe and turning machine operators		17.0	5.1	11.7
Punching and stamping press machine operators		31.1	10.2	9.8
Grinding, abrading, buffing, and polishing machine operators		10.1	8.6	17.9
Metal and plastic processing machine operators		21.5	11.4	10.7
Molding and casting machine operators		26.4	10.4	7.6
Woodworking machine operators		16.1 12.6	14.6 15.8	13.2
Sawing machine operators		26.8	9.5	11.3
Printing machine operators		19.4	10.9	14.1
Printing press operators Textile, apparel, and furnishings machine operators		72.1	19.4	25.1
Winding and twisting machine operators	53	71.0	30.7	3.7
Textile sewing machine operators		82.1	16.4	30.2
Pressing machine operators	L	81.0	27.8	35.2
Laundering and dry cleaning machine operators		52.8	19.1	21.9
Machine operators, assorted materials		32.2	16.9	18.9
Packaging and filling machine operators		60.3	19.9	30.8
Mixing and blending machine operators	124	9.5	23.1	19.1
Separating, filtering, and clarifying machine operators	55	10.4	20.5	10.8
Painting and paint spraying machine operators		13.6	12.5	20.4
Furnace, kiln, and oven operators, except food		3.5	9.6	12.1
Slicing and cutting machine operators	184	24.4	11.9	24.2
Photographic process machine operators	102 2,090	59.2 33.1	12.0 14.3	10.0
Fabricators, assemblers, and hand working occupations	588	5.1	7.6	14.0
Assemblers	1,319	43.1	17.9	15.1
Miscellaneous hand working occupations		64.1	5.1	5.5
Production inspectors, testers, samplers, and weighers	770	48.0	14.8	16.3
Production inspectors, checkers, and examiners	522	49.5	12.9	13.6
Production testers	56	22.0	10.0	8.6
Graders and sorters, except agricultural	185	51.9	21.6	25.9
Transportation and material moving occupations	5,363	10.2	16.3	11.9
Motor vehicle operators	4,069	11.5	16.2	12.0
Supervisors		24.4	15.9	5.2 12.0
Truck drivers		5.3	14.9	
Drivers-sales workers		9.4	10.8 20.3	9.7
Bus drivers		10.5	26.5	15.0
Parking lot attendants		10.8	22.2	23.8
Transportation occupations, except motor vehicles	167	4.1	17.3	3.8
Rail transportation		5.1	21.3	3.0
Railroad conductors and yardmasters		2.7	15.6	4.2
Water transportation	63	2.6	10.6	5.0
Material moving equipment operators	1,127	6.2	16.2	12.8
Operating engineers	245	2.2	7.4	6.8
Crane and tower operators	. 67	6.3	19.3	4.6
Excavating and loading machine operators	.] 104	.4	4.8	7.9
Grader, dozer, and scraper operators	. i 75	2.7	10.6	4.2

(Numbers in thousands)

		19	98	
Occupation	Tatal	Р	ercent of tot	al:
	Total employed	Women	Black	Hispanic origin
Industrial truck and tractor equipment operators	534	8.9	22.7	18.3
Handlers, equipment cleaners, helpers, and laborers Helpers, construction and extractive occupations Helpers, construction trades Construction laborers Production helpers Freight, stock, and material handlers Stock handlers and baggers Machine feeders and offbearers Garage and service station related occupations Vehicle washers and equipment cleaners	126 122 821 54 1,988 1,183	20.3 3.5 3.6 4.5 25.0 23.7 29.7 39.2 4.1 9.8 63.6	15.6 6.9 6.3 11.8 12.7 17.4 13.1 23.3 10.8 19.5 13.1	18.4 32.4 33.3 23.5 29.3 14.3 14.4 10.7 10.7 27.2 25.6
Hand packers and packagers Laborers, except construction	1,298	21.8	16.6	16.6
Farming, forestry, and fishing Farm operators and managers Farmers, except horticultural Horticultural specialty farmers Managers, farms, except horticultural Other agricultural and related occupations Farm occupations, except managerial Farm workers Related agricultural occupations Supervisors Groundskeepers and gardeners, except farm Animal caretakers, except farm Graders and sorters, agricultural products Forestry and logging occupations Timber cutting and logging occupations Fishers, hunters, and trappers	1,187 935 69 170 2,171 903 835 1,268 142 924 130 69	19.1 23.1 25.1 7.8 18.9 17.7 17.9 17.2 17.6 9.6 7.2 69.4 74.9 6.7 3.0 4.6	4.9 1.3 .7 8.5 2.2 6.8 4.2 4.2 8.6 1.6 10.7 3.1 5.6 8.1 11.3	22.6 2.4 .8 17.9 5.1 34.8 44.9 28.0 22.9 29.2 6.6 64.2 6.9 2.5 3.9

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 1998, data reflect new composite

HOUSEHOLD DATA ANNUAL AVERAGES

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

(In thousands)

1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998 1997 1998	^ •	To	otal	w	hite	Bla	ick	Hispani	c origin
Total (all civilian workers) 129,558 131,463 109,856 110,931 13,969 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 12,726 13,466 14,556 14,556 12,726 13,466 14,556 14,556 12,726 13,466 14,556 14,556 12,726 13,466 14,556 14	Category	1997	1998	1997	1998	1997	1998	1997	1998
Men	SEX								
Men	Total (all civilian workers)	129,558	131.463	109.856	110.931	13.969	14.556	12.726	13.291
Managerial and professional specialty 37,686 38,937 33,089 34,063 2,764 2,947 1,867				59,998	60,604	6,607	6.871	7,728	8,018
Managerial and professional specialty			60,771	49,859	50,327	7,362	7,685	4,999	5,273
Executive, administrative, and managerial 18,440 19,054 16,420 16,903 1,267 1,368 1,001 1,779 1,779 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,579 866 1,497 1,414 1,579 1,414 1,256 1,498 1,49	OCCUPATION							!	
Professional specialty									1,933
Technical, sales, and administrative support					1			, , ,	1,028
Technicians and related support	Professional specialty	19,245	19,883	16,669	17,160	1,497	1,579	866	905
Sales occupations	Technical, sales, and administrative support					,	,		3,186
Administrative support, including clerical 18,361 18,410 15,323 15,229 2,352 2,408 1,572 1,552 1,5529 2,352 2,408 1,572 1,552 1,5529 2,352 2,408 1,572 1,552 1,5529 2,352 2,408 1,572 1,552 1,5229 2,352 2,408 1,572 1,552 1,5529 2,552 2,408 1,572 1,552 1,5529 2,552 2,408 1,572 1,552 1,5529 2,552 2,408 1,572 1,552 1,5529 2,408 1,572 1,552 1,5529 1,5529 1,552 1,5529 1,552 1,5529 1,552 1,5529 1,552 1,5529 1,552	Technicians and related support		, ,	1 '					283
Service occupations									1,245
Private household	Administrative support, including clerical	18,361	18,410	15,323	15,229	2,352	2,408	1,572	1,657
Protective service	Service occupations	17,537	17,836	13,604	13,807	3,092	3,148		2,670
Service, except private household and protective 14,442 14,572 11,162 11,211 2,533 2,569 2,146 2,2	Private household	795	847	642	704	129	116	212	262
Precision production, craft, and repair	Protective service	2,300	2,417	1,800	1,892	430	463	202	204
Mechanics and repairers	Service, except private household and protective	14,442	14,572	11,162	11,211	2,533	2,569	2,146	2,204
Mechanics and repairers	Precision production, craft, and repair	14,124							1,793
Other precision production, craft, and repair 4,071 4,031 3,467 3,441 393 381 499 4,071 4,071 4,031 3,467 3,441 393 381 499 4,071 4,031 3,467 3,441 393 381 499 4,071 4,031 3,467 3,441 393 381 499 4,071 4,031 3,467 3,441 393 381 499 4,071 4,031 4,609 2,781 2,866 2,839 2,791 4,037 4,435 4,351 819 872 592 1,426	Mechanics and repairers								496
Deprators, fabricators, and laborers	Construction trades	5,378							785
Machine operators, assemblers, and inspectors 7,962 7,791 6,322 6,146 1,178 1,200 1,426 1,785 1,200 1,426 1,785 1,200 1,426 1,426 1,791 6,322 6,146 1,178 1,200 1,426	Other precision production, craft, and repair	4,071	4,031	3,467	3,441	393	381	499	512
Transportation and material moving occupations	Operators, fabricators, and laborers								2,917
Transportation and material moving occupations	Machine operators, assemblers, and inspectors	7,962							1,340
Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction laborers Section Construction	Transportation and material moving occupations	5,389							640
Other handlers, equipment cleaners, helpers, and laborers	Handlers, equipment cleaners, helpers, and laborers	5,048	5,102	4,057		784	795	821	938
Farming, forestry, and fishing 3,503 3,502 3,254 3,233 156 172 721 CLASS OF WORKER Agriculture: Wage and salary workers 1,890 2,000 1,761 1,843 81 102 583 Unpaid family workers 51 38 50 37 1 Nonagricultural industries: Wage and salary workers 116,983 119,019 98,395 99,657 13,380 13,917 11,458 11, Government 18,131 18,383 14,514 14,686 2,860 2,877 1,331 1, Private industries 98,852 100,637 83,880 84,970 10,520 11,040 10,127 10, Private households 915 962 724 785 161 146 234 Other industries 97,937 99,674 83,156 84,185 10,359 10,894 9,893 10, Self-employed workers 99,056 8,962 8,153 8,030 471 497 598 Unpaid family workers 90,056 8,962 8,153 8,030 471 497 598 Unpaid family workers 106,334 108,202 89,605 90,759 11,920 12,429 10,741 11.			821		L .				193
CLASS OF WORKER Agriculture: Wage and salary workers 1,890 2,000 1,761 1,843 81 102 583 Self-employed workers 1,457 1,341 1,397 1,280 36 36 76 Unpaid family workers 51 38 50 37 - - 1 Nonagricultural industries: Wage and salary workers 116,983 119,019 98,395 99,657 13,380 13,917 11,458 11, Government 18,131 18,383 14,514 14,686 2,860 2,877 1,331 1, Private industries 98,852 100,637 83,880 84,970 10,520 11,040 10,127 10, Private households 915 962 724 785 161 146 234 Other industries 97,937 99,674 83,156 84,185 10,359 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 11,940 12,429 10,741 <td>Other handlers, equipment cleaners, helpers, and laborers</td> <td>4,237</td> <td>4,282</td> <td>3,376</td> <td>3,407</td> <td>679</td> <td>698</td> <td>655</td> <td>745</td>	Other handlers, equipment cleaners, helpers, and laborers	4,237	4,282	3,376	3,407	679	698	655	745
Agriculture: Wage and salary workers	Farming, forestry, and fishing	3,503	3,502	3,254	3,233	156	172	721	792
Wage and salary workers 1,890 2,000 1,761 1,843 81 102 583 Self-employed workers 1,457 1,341 1,397 1,280 36 36 76 Unpaid family workers 51 38 50 37 - - 1 Nonagricultural industries: Wage and salary workers 116,983 119,019 98,395 99,657 13,380 13,917 11,458 11,692 11,458 11,459 11,458 11,458 11,459 11,459	CLASS OF WORKER								
Self-employed workers 1,457 1,341 1,397 1,280 36 36 76 Unpaid family workers 51 38 50 37 - - 1 Nonagricultural industries: Wage and salary workers 116,983 119,019 98,395 99,657 13,380 13,917 11,458 11, Government 18,131 18,383 14,514 14,686 2,860 2,877 1,331 1, Private industries 98,852 100,637 83,880 84,970 10,520 11,040 10,127 10, Private households 915 962 724 785 161 146 234 Other industries 97,937 99,674 83,156 84,185 10,359 10,894 9,893 10, Self-employed workers 9,056 8,962 8,153 8,030 471 497 598 Unpaid family workers 100 103 101 84 1 4 11					1.015	1	100		
Unpaid family workers 51 38 50 37 - - 1 Nonagricultural industries: Wage and salary workers 116,983 119,019 98,395 99,657 13,380 13,917 11,458 11,458 11,71 11,458 11,71 11,458 11,458 11,71 11,458 11,458 11,458 11,458 11,458 11,458 11,458 11,458 11,458 11,458									670
Nonagricultural industries: Wage and salary workers						36	36		71
Wage and salary workers 116,983 119,019 98,395 99,657 13,380 13,917 11,458 11,Government Government 18,131 18,133 14,514 14,686 2,860 2,877 1,331 1,Pivate industries 98,852 100,637 83,880 84,970 10,520 11,040 10,127 10,27<		. 51	38	50	37	_	_	ו	2
Sovernment 18,131 18,383 14,514 14,686 2,860 2,877 1,331 1,000 1,0		110 000	110010	00.005	00.657	40.000	40.047	44.450	44.040
Private industries 98,852 100,637 83,880 84,970 10,520 11,040 10,127 10,27 Private households 915 962 724 785 161 146 234 Other industries 97,937 99,674 83,153 84,185 10,359 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 10,894 9,893 11,894 <				,		,			11,949
Private households 915 962 724 785 161 146 234 Other industries 97,937 99,674 83,156 84,185 10,359 10,894 9,893 10, Self-employed workers 9,056 8,962 8,153 8,030 471 497 598 Unpaid family workers 120 103 101 84 1 4 11 FULL- OR PART-TIME STATUS Full-time workers 106,334 108,202 89,605 90,759 11,920 12,429 10,741 11.									1,355 10,594
Other industries 97,937 99,674 83,156 84,185 10,359 10,894 9,893 10, 598 Self-employed workers 9,056 8,962 8,153 8,030 471 497 598 Unpaid family workers 120 103 101 84 1 4 11 FULL- OR PART-TIME STATUS Full-time workers 106,334 108,202 89,605 90,759 11,920 12,429 10,741 11.	Private industries	015							281
Self-employed workers 9,056 8,962 8,153 8,030 471 497 598 Unpaid family workers 120 103 101 84 1 4 11 FULL- OR PART-TIME STATUS Full-time workers 106,334 108,202 89,605 90,759 11,920 12,429 10,741 11.									10,312
Unpaid family workers 120 103 101 84 1 4 11 FULL- OR PART-TIME STATUS Full-time workers 106,334 108,202 89,605 90,759 11,920 12,429 10,741 11.		1							590
Full-time workers	Unpaid family workers								10
TOTAL CONTROL	FULL- OR PART-TIME STATUS								
TO THE WORKER MANAGEMENT OF THE PROPERTY OF TH	Full-time workers	. 106.334	108,202	89,605	90,759	11,920	12,429	10,741	11,303
Part-time workers			23,261	20,252	20,172	2,049	2,126	1,985	1,988

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 1998, data reflect new composite estimation procedures and 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		lispanic gin ¹	Mexican origin		Puerto Rican origin		Cuban	origin
,	1997	1998	1997	1998	1997	1998	1997	1998
SEX								
Fotal (all civilian workers)	12,726	13,291	7.884	8.431	1,166	1,145	603	612
Men		8,018	4,941	5,291	654	615	364	371
Women		5,273	2,943	3,140	512	529	239	241
OCCUPATION								
Managerial and professional specialty	1,867	1,933	946	985	206	208	171	159
Managerial and professional specialty Executive, administrative, and managerial		1,028	508	536	103	103	102	89
Professional specialty		905	438	449	103	105	69	70
Fiolessional specialty			100	.,,	100			
Technical, sales, and administrative support	. 3,026	3,186	1,728	1,845	347	365	197	210
Technicians and related support	. 256	283	140	156	30	30	18	28
Sales occupations	. 1,198	1,245	680	729	112	118	88	94
Administrative support, including clerical	. 1,572	1,657	908	961	204	217	91	88
Service occupations	. 2,560	2,670	1,524	1,653	231	217	75	85
Private household	1	262	99	130	5	6	5	3
Protective service	1	204	106	106	47	39	و ا	13
Service, except private household and protective		2,204	1,319	1,417	179	172	62	69
Precision production, craft, and repair	. 1,714	1,793	1,185	1,199	127	119	55	66
Mechanics and repairers		496	303	311	50	38	30	28
Construction trades		785	542	554	42	33	16	23
Other precision production, craft, and repair		512	340	334	36	48	10	15
Operators, fabricators, and laborers	. 2,839	2,917	1.887	2.047	243	223	96	85
Machine operators, assemblers, and inspectors		1,340	957	955	119	105	33	24
Transportation and material moving occupations		640	370	422	64	53	36	38
Handlers, equipment cleaners, helpers, and laborers		938	561	671	61	64	28	24
Construction laborers	. 166	193	121	149	6	9	4	3
Other handlers, equipment cleaners, helpers, and laborers	. 655	745	439	521	55	55	23	21
Farming, forestry, and fishing	. 721	792	614	703	12	13	8	7
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	. 583	670	519	605	6	9	2	5
Self-employed workers	. 76	71	52	56	-	1] 2	2
Unpaid family workers	. 1	2	1	1	-	-	-	-
Nonagricultural industries:	1							
Wage and salary workers		11,949	6,949	7,410	1,121	1,100	558	574
Government		1,355 10,594	821 6,128	833 6,577	188 933	180 920	58 500	60 515
Private industries		281	109	139	933	920	500	313
Other industries		10,312	6,019	6,438	927	913	495	511
Self-employed workers		590	356	351	36	34	41	31
Unpaid family workers	1 111	10	8	8	-	-		-
FULL- OR PART-TIME STATUS						ļ		
Full-time workers	. 10,741	11,303	6,672	7,166	958	969	517	531
Part-time workers		1,988	1,212	1,265	208	176	86	81

 $^{^{\}rm 1}$ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(In thousands)

					19:	98				
Ago pay and rose			N	lanufacturir	ng	Trans-	Wholesale	Finance.		
Age, sex, and race	Mining	Construction	Total	Durable goods	Non- durable goods	portation and public utilities	and retail trade	insurance, and real estate	Services ¹	Public admin- istration
Total										
Total, 16 years and over	620	8,518	20,733	12,566	8,168	9,307	27,203	8,605	47,212	5,887
16 to 19 years	13	279	431	243	188	150	3,806	177	1,887	47
20 years and over	607	8,239	20,302	12,322	7,980	9,157	23,397	8,428	45,325	5,839
20 to 24 years	35	825	1,614	972	642	654	3,909	708	4,228	245
25 years and over	572	7,414	18,688	11,350	7,338	8,503	19,488	7,720	41,097	5,595
25 to 54 years	499	6,533	16,242	9,866	6,376	7,409	16,478	6,518	34,645	4,829
55 years and over	73	881	2,446	1,484	962	1,093	3,010	1,202	6,452	766
Men, 16 years and over	535	7,721	14,138	9,140	4,998	6,598	14,367	3,552	17,906	3,323
16 to 19 years	9	263	298	180	118	98	1,847	55	764	21
20 years and over	526	7,458	13,840	8,960	4,880	6,500	12,520	3,498	17,142	3,302
20 to 24 years	31	769	1,103	710	393	437	2,011	234	1,654	123
25 years and over	495	6,689	12,737	8,250	4,487	6,063	10,509	3,264	15,488	3,179
25 to 54 years	433	5,906	11,054	7,157	3,897	5,229	8,928	2,627	12,774	2,753
55 years and over	62	783	1,683	1,093	590	834	1,581	636	2,714	425
Women, 16 years and over	85	798	6,595	3,426	3,169	2,709	12,836	5,053	29,306	2,564
16 to 19 years	4	16	134	64	70	52	1,958	122	1,123	27
20 years and over	81	782	6,462	3,362	3,099	2,658	10,878	4,930	28,183	2,537
20 to 24 years	4	56	510	262	249	218	1,898	474	2,574	122
25 years and over	77	725	5,951	3,101	2,851	2,440	8,980	4,456	25,609	2.416
25 to 54 years	66	627	5,188	2,709	2,479	2,180	7,551	3,890	21,871	2,075
55 years and over	11	99	763	391	372	260	1,429	566	3,738	340
White						<u> </u> 				
Men, 16 years and over	501	7.028	12,136	7,941	4,195	5,389	12,276	3,105	15,023	2.768
16 to 19 years	9	249	263	160	103	75	1,594	45	659	16
20 years and over	493	6,779	11,874	7,781	4,093	5,314	10,682	3,060	14.365	2,752
20 to 24 years	28	711	925	597	328	363	1,731	193	1,343	105
25 years and over	465	6,068	10,949	7,184	3,765	4,951	8,951	2,867	13,022	2.647
25 to 54 years	404	5,356	9,468	6,215						
55 years and over	61	712	1,481	969	3,252 513	4,234 716	7,541 1,410	2,274 593	10,638 2,384	2,276 371
· ·				Ì						
Women, 16 years and over	78	734	5,360	2,847	2,513	2,127	10,912	4,241	24,177	1,915
16 to 19 years	_3	_16	120	_58	63	41	1,668	98	963	21
20 years and over	75	718	5,239	2,790	2,450	2,086	9,244	4,143	23,214	1,894
20 to 24 years	_4	53	415	218	196	173	1,572	371	2,112	95
25 years and over	71	665	4,824	2,571	2,253	1,913	7,672	3,772	21,102	1,799
25 to 54 years	60	575	4,168	2,226	1,943	1,685	6,365	3,249	17,953	1,511
55 years and over	11	90	656	345	311	228	1,307	523	3,148	289
Black						1				
Men, 16 years and over	24	498	1,374	779	595	949	1,326	294	1,854	434
16 to 19 years	-	11	28	15	13	18	194	6	74	4
20 years and over	24	487	1,346	764	582	930	1,132	289	1,780	430
20 to 24 years	3	40	132	82	50	61	200	26	197	15
25 years and over	20	448	1,214	681	532	869	931	263	1,583	415
25 to 54 years	20	392	1,086	600	486	780	839	236	1,362	377
55 years and over	1	55	128	82	46	89	93	27	221	38
Women, 16 years and over	4	48	811	360	451	457	1,290	605	3,914	536
16 to 19 years	-] 1	11	4	6	10	225	15	128	5
20 years and over	4	48	801	356	444	447	1,065	590	3,786	531
20 to 24 years	_ `] [1]	72	29	42	35	254	79	344	21
25 years and over	4	46	729	327	402	412	810	511	3,441	510
	4	39	658	293	365	387	743	484	2,968	470
25 to 54 years 55 years and over	- 4	7	71	34	303	25	68			
aa yeers and over	_	. , ,	/ 1	1 34	ال ا	1 20	80	28	473	41

¹ Includes private housholds. NOTE: Beginning in January 1998, data reflect new composite estimation

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

(In thousands)

	_				1	998				
		Agriculture				Nonag	ricultural ind	ustries		
A					Wag			-		
Age and sex	Wage and	Self-	Unpaid		Р	rivate industri	es		Self-	Unpaid
		family workers	Total	Total	Private household workers	Other private industries	Government	employed workers	family workers	
Total, 16 years and over	2,000	1,341	38	119,019	100,637	962	99,674	18,383	8,962	103
6 to 19 years	219	30	13	6,726	6.400	116	6.285	325	57	8
16 to 17 years	104	21	5	2,602	2,500	70	2,431	102	25	4
18 to 19 years	114	8	8	4,124	3,900	46	3,854	223	32	3
0 to 24 yéars	300	34	6	11,968	10,962	91	10,872	1,005	242	
5 to 34 years	531	179	8	29,146	25,458	166	25,292	3,688	1,513	18
5 to 44 years	473	314	5	32,750	27,470	221	27,249	5,280	2,710	2
5 to 54 years	275	319	2	24,565	19,095	190	18,905	5,470	2,403	2
5 to 64 years	149	245	2	11,066	8,878	104	8,774	2.187	1,399	1:
5 years and over	53	221	3	2,800	2,373	74	2,298	427	639	9
Men, 16 years and over	1,526	1,005	23	62,630	54,452	86	54,366	8,178	5,480	29
6 to 19 years	170	24	10	3,319	3,176	18	3,158	143	30	
16 to 17 years	82	18	4	1,278	1,227	10	1,217	51	13	
18 to 19 years	88	6	7	2,041	1,949	8	1,941	92	17	
0 to 24 years	246	25	4	6,224	5,789	j 8	5,781	435	134	
5 to 34 years	409	135	5	15,673	13.987	15	13,971	1.686	872	
5 to 44 years	356	242	1	17,416	15,131	16	15,115	2.285	1.612	
5 to 54 years	190	230	_	12,616	10,222	12	10,210	2,394	1,504	
5 to 64 years	110	172	1	5.868	4,838	7	4.831	1,030	898	: :
5 years and over	44	176	1	1,514	1,309	9	1,300	205	432	
Nomen, 16 years and over	474	336	15	56,389	46,185	876	45,308	10,205	3,482	74
6 to 19 years	49	6	3	3,406	3,224	97	3,127	182	26	
16 to 17 years	22	4	2	1,324	1,273	59	1,214	51	12	:
18 to 19 years	27	2	-	2,083	1,951	38	1,913	131	15	
0 to 24 years	54	9	2	5,743	5,173	82	5,091	570	108	١.
5 to 34 years	123	44	3	13,473	11,471	151	11,320	2,002	641	1-
5 to 44 years	116	71	3	15,334	12,339	205	12,134	2,995	1,098	2
5 to 54 years	85	89	2	11,949	8,873	178	8,695	3,076	899	1
5 to 64 years	38	73	1	5,198	4,040	97	3,944	1,158	501	
5 years and over	9	44	2	1,286	1,064	66	998	222	208	

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(In thousands)

			1	998		
Industry and sex		Wa	ge and salary wo	rkers	Self-	Unpaid
massi, and to	Total employed	Total	Private industries	Government	employed workers	family workers
TOTAL						
fining	620	599	597	2	21	_
Construction		6,986	6,512	474	1,519	14
fanufacturing		20,300	20,232	68	428	. 6
Durable goods		12,309	12,254	55	253	4
Nondurable goods		7,991	7,978	13	175	2
ransportation and public utilities		8,872	7,278	1,594	430	5
Vholesale and retail trade		25,526	25,411	116	1,640	36
Wholesale trade		4,789 20,737	4,776 20,634	13 103	298 1,342	34
inance, insurance, and real estate		7,990	7,784	206	609	5.
Services		42,859	32,823	10,036	4,317	36
Private households		962	962	-	5	
Other service industries		41,897	31,861	10,036	4,311	36
Business, automobile, and repair	8,708	7,356	7,289	67	1,340	12
Personal, except private households		2,807	2,800	7	671	5
Entertainment and recreation		2,252	1,957	295	277	1
Professional		29,389	19,767	9,622	1,985	19
Hospitals		5,108	4,374	734	8	
Health services, except hospitals		5,991 10,358	5,569 2,585	422 7,773	389 109	
Educational Social services	,	2,676	2,565	557	560	,
Other		5,256	5,120	137	919	
Forestry and fisheries		92	48	45	38	_ `
Public administration		5,887		5,887		_
Men						
Aining	535	518	518	1 1	16	_
Construction	7,721	6,299	5,884	415	1,421	1
Manufacturing		13,850	13,801	49	285	3
Durable goods		8,941	8,899	42	196	2
Nondurable goods		4,909	4,902	7	89]
ransportation and public utilities		6,241 13,460	5,150 13,412	1,090 47	356 893	14
Vholesale and retail trade		3,344	3,335	9	220	_ '4
Retail trade		10,116	10,078	38	673	14
inance, insurance, and real estate		3,171	3,065	106	382	_ '
Services		15,769	12,622	3,147	2,127	9
Private households		86	86	-	4	_
Other service industries		15,683	12,536	3,147	2,123	9
Business, automobile, and repair		4,628	4,589	39	890	3
Personal, except private households		1,023	1,020	3	208	
Entertainment and recreation		1,230	1,050	180 2,895	160	1
Professional		8,733 1,210	5,838 971	2,895	830 2	_ =
Hospitals Health services, except hospitals		1,123	1,034	89	220	_ 2
Educational		3,238	896	2,342	32	1 7
Social services		563	422	141	24	
Other		2,599	2,515	84	552	
Forestry and fisheries	104	70	39	31	35	i -
Public administration		3,323	-	3,323	-	-
Women			:			
Mining		80	79	1 1	4	
Construction		687	628	59 19	98 143	13
Manufacturing	6,595 3,426	6,450 3,368	6,431 3,355	19	143 56	
Durable goods		3,082	3,076	'6	86	
ransportation and public utilities		2,632	2,128	504	74	
Vholesale and retail trade		12,066	11,998	68	748	22
Wholesale trade		1,445	1,442	3	78	} ;
Retail trade	11,310	10,621	10,556	65	669	1!
Finance, insurance, and real estate		4,820	4,719	100	227	
Services	29,306	27,090	20,201	6,889	2,189	2
Private households		876	876	-	1 21	-
Other service industries		26,213	19,325	6,889	2,188	27
Business, automobile, and repair		2,729 1,785	2,700 1,781	29	450 463	
Personal, except private households	2,252 1,138	1,785	906	115	463 117	1 - '
Entertainment and recreation Professional		20,656	13,929	6,727	1,154	_ 1
Hospitals		3,897	3,403	495	1,134	l - "
Health services, except hospitals		4,868	4,535	333	169	
Educational		7,120	1,689	5,431	76	J - '
Social services		2,113	1,697	416	536] :
Other	3,029	2,657	2,605	52	367	i .
Forestry and fisheries	27	23	9	14	4	i -
Public administration	2,564	2,564	I _	2,564		

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(In thousands)

							199	98		·····			
		Manager profess speci	ional		ical, sal ministra suppor	tive	Sei	rvice	Preci-		Operators, fabricators, and laborers		
Industry and sex	Total em- ployed	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	sion produc- tion, craft, and repair	Machine oper- ators, assem- blers, and inspec- tors	Transpor- tation and material moving	Handlers, equipment cleaners, helpers, and laborers	Farming, forestry, and fishing
TOTAL	!												
Agriculture	3,378	110	105	51	23	136	- 1	21	39	20	42	19	2,814
Mining	620	101	63	19	11	53	-	8	208	31	105	18	1
Construction	8,518	1,380	144	47	56	415	-	28	4,889	94	535	910	21
Manufacturing	20,733	3,008	2,007	646 430	764 318	1,982 1,127	_	291 150	3,956 2,807	6,219 3,594	765 415	1,019 509	76 71
Durable goods	8,168	1,796 1,212	1,351 656	217	446	856		141	1,150	2,625	350	510	5
Nondurable goods Transportation and public	0,100	1,212	030	217	440	0.00	-	141	1,130	2,020	330	310	, ,
utilities	9,307	1,307	561	324	273	2,349	1 _	296	1,285	135	2,243	522	13
Wholesale and retail trade		2,538	590	231	11360	2,194	l – i	5,182	1,522	367	1,068	2,049	101
Wholesale trade	5,090	622	131	43	2,054	756	_	57	346	137	493	380	71
Retail trade	22,113	1,916	459	188	9,306	1,438	-	5,125	1,177	230	575	1,670	30
Finance, insurance, and	,	,,,,,,			.,	.,			'			, , , , ,	
real estate	8,605	2,489	356	166	2,143	2,860	-	323	177	12	13	17	49
Services	47,212	6,793	15,090	2,541	1,197	7,118	847	9,117	2,154	887	551	516	399
Private households	967	6	6	1	1	9	847	56	3	1	4	7	26
	46,244	6,787	15,084	2,540	1,196	7,109	-	9,061	2,151	887	548	509	374
Professional services		4,164	13,122	2,132	213	5,132	-	5,485	473	195	294	99	85
Public administration	5,887	1,329	968	234	25	1,302	-	1,722	182	27	40	30	27
Men		ĺ]								1
Agriculture	2,553	62	71	10	15	7	-	12	38	17	40	16	2,266
Mining	535	76	59	16	6	14	l –	6	205	30	103	18	1
Construction	7,721	1,131	124	39	47	46	-	19	4,809	91	522	871	21
Manufacturing	14,138	2,024	1,520	483	501	676	-	213	3,319	3,897	702	731	72
Durable goods	9,140	1,257	1,117	348	232	396	- 1	111	2,348	2,493	380	389	68
Nondurable goods	4,998	767	403	135	269	280	-	102	970	1,405	322	342	3
Transportation and public		1		Í	Í		l		l				l
utilities	6,598	843	405	270	147	969] -	137	1,214	110	2,037	454	12
Wholesale and retail trade	14,367	1,459	276	94	5,452	522	-	2,460	1,323	215	990	1,529	47
Wholesale trade	3,564	402	86	35	1,546	212	-	43	327	100	474	309	29
	10,803	1,057	190	58	3,906	309	-	2,417	996	115	517	1,220	18
Finance, insurance, and real estate	3,552	1,146	191	69	1,188	489	ł _	226	167	6	12	14	46
Services		3,167	6,085	856	507	948	46	2,700	1,963	495	377	411	351
Private households	90	3,10,	0,003			1	46	2,703	3	-	3	7 7	24
	17,816	3,164	6.084	856	507	947		2,697	1,960	495	375	404	327
Professional services	9,568	1,637	4,894	549	65	499	_	1,155	411	87	139	64	69
Public administration	3,323	677	551	139	12	271	_	1,402	170	20	36	25	20
****		ļ											ļ
Women Agriculture	825	47	34	41	8	129	_	9	[_	3	2	3	548
Agriculture Mining	85	25	34	4	5	40	}	2	_ 2	_ 3	3	_ "	- 546
Construction	798	249	19	3	8	369	_	9	80	_ 2	13	39	1
Manufacturing	6,595	984	486	163	263	1,307	-	78	638	2,321	63	288	4
Durable goods	3,426	539	233	82	86	731	-	39	458	1,101	35	120	3
Nondurable goods	3,169	445	253	81	177	576	-	39	180	1,220	28	168	2
Transportation and public	_			_			1]
utilities	2,709	464	156	54	126	1,379	-	159	71	25	206	68	1 1
Wholesale and retail trade	12,836	1,079	314	137	5,908	1,672	_	2,722	199	151 37	78	520	55
Wholesale trade	1,526	220	45	130	508	544 1,129] _	14 2,708	18 181	114	19 59	71 450	43
Retail trade	11,310	859	269	130	5,400	1,129	1 -	2,700	101	114	59	450	'2
Finance, insurance, and	5.053	1,344	165	97	955	2,371	_	97	10	6	1	3	3
real estate Services	29,306	3,626	9,006	1,685	689	6,170	801	6,417	191	393	174	105	48
Private households	877	3,020	3,000	1,003	1 1	8	801	54	-	-	''7	1 103	1
Other service industries	28,428	3,623	9,000	1,683	688	6,162		6,364	191	392	173	105	47
CALL COLLING HIGGSHIPS			8,228	1,583	148	4,632	-	4,330	62	108	155	34	16
Professional services	1 21.824	2,527	0,220	1,303	170	7,002	_	7,000	1 02	100	133	1 34	10

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

(In thousands)

							199	98					
		Manager profess speci	ional		ical, sal ministra suppor		Se	rvice	Preci-		Operators, fabricators, and laborer	s	
	Total em- ployed	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	sion produc- tion, craft, and repair	Machine oper- ators, assem- blers, and inspec- tors	Transpor- tation and material moving	Handlers, equipment cleaners, helpers, and laborers	Farming forestry and fishing
White													
	3.160	101	102	51	23	132	_	14	35	19	37	17	2.629
griculture		96	60	19	11	50	_	8	194	29	96	15	2,029
lining		1,305	129	41	52	387		23	4.462	83	470	793	17
onstruction			1,742	536	702	1.744		227	3,414	4.878	593	800	66
lanufacturing		2,794	1,151	359	299	1,744	_	126	2,450	2,904	322	430	6.
Durable goods		1,683		178	403	740		101	964		271	370	l °.
Nondurable goods	6,708	1,111	591	1/8	403	/40	_	יטי ן	904	1,975	~′'	3/0	l '
ransportation and public	7.540	4 4 4 4 0	476	286	229	4 700	}	223	1,093	107	1 770	374	1.
utilities	7,516	1,142	1			1,798	_				1,776		
/holesale and retail trade		2,189	541	191	9,734	1,888	-	4,312	1,362	306	896	1,682	88
Wholesale trade		546	122	34	1,895	658	-	43	311	110	412	312	60
Retail trade	18,687	1,644	419	157	7,839	1,230	-	4,269	1,051	196	484	1,370	28
inance, insurance, and						1	1			١ .	١		١
real estate		2,178	291	143	1,933	2,335	-	253	142	9	10	12	40
ervices		6,021	13,025	2,097	1,002	5,895	704	6,685	1,876	697	447	392	35
Private households	790	4	5	1	1	7	704	34	3		4	6	2:
Other service industries	38,410	6,016	13,020	2,096	1,001	5,888	-	6,651	1,873	697	443	387	338
Professional services	26,094	3,671	11,333	1,752	178	4,295	-	3,916	409	158	234	73	7:
Public administration	4,683	1,077	795	193	18	1,000	-	1,357	151	17	28	25	2
Black	400							_ ا					40
griculture		4	2	- ,	-	1	-	5		·	3	2	12:
lining		2	2	1 1		3	_		10	1 1	7	2	_
construction		46	4	_2	2	21	-	5	303	7	55	98	1 :
lanufacturing		103	94	57	38	165	-	56	359	981	148	175	
Durable goods		51	65	31	10	77	-	21	216	511	81	68	1
Nondurable goods	1,046	52	30	25	28	88	-	35	143	470	67	107	_
ransportation and public									450			100	\
utilities	1,406	112	45	25	38	406	1 -	57	158	22	408	133	
holesale and retail trade		193	21	21	1,053	217	-	535	103	44	145	279	
Wholesale trade		46	2	6	79	68	_	11	23	21	70	48	
Retail trade	2,237	147	18	15	974	149	-	524	81	22	75	231	-
inance, insurance, and	0.55	000				400						1	
real estate		200	38	12	145	402		60	30	1 1	2	4	,
ervices		520	1,242	295	134	953	116	1,991	170	135	91	98	2
Private households	146	2	1	-	1	1 250	116	20	170	105		97	١.
Other service industries		518	1,241	295	134	952	-	1,971	170	135	91		1
Professional services	3,924	348	1,114	265	25	666	-	1,351	44	30	55	21	ł
Public administration	970	189	132	29	6	239	-	324	24	8	12	4	

¹ Includes protective service, not shown separately. NOTE: Beginning in January 1998, data reflect new composite estimation

(Numbers in thousands)

		199	8	
Industry		Pe	ercent of to	tal:
	Total employed	Women	Black	Hispani origin
Total, 16 years and over	131,463	46.2	11.1	10.1
Agriculture	3,378	24.4	4.1	22.0
Agricultural production, crops		22.9	3.2	33.2
Agricultural production, livestock	1,094	23.8	1.7	9.3
Veterinary services		70.7	2.5	4.0
Landscape and horticultural services	881	11.4	8.6	28.5
Mining	620	13.7	4.6	9.0
Coal mining		3.3	3.4	1 ,1
Oil and gas extraction		17.7	5.3	10.5
Nonmetallic mining and quarrying, except fuel		8.7	4.9	9.2
Novel well-re	0.510	9.4	6.4	12.7
Construction	8,518	9.4	0.4	12.7
Manufacturing	20,733	31.8	10.5	11.2
Durable goods	12,566	27.3	9.1	9.6
Lumber and wood products, except furniture		18.3	12.4	8.9
Logging		8.5	12.5	1.4
Sawmills, planing mills, and millwork		18.4	11.0	6.7
Wood buildings and mobile homes		18.4	15.3	14.9
Miscellaneous wood products	l	25.2	14.3	16.1
Furniture and fixtures		30.6	8.8	13.9
Stone, clay, glass, and concrete products		21.8	10.0	10.3
Glass and glass products Cement, concrete, gypsum, and plaster products	193 215	25.6 13.5	6.4 13.6	8.1
Structural clay, pottery, and related products		32.5	11.9	15.0
Miscellaneous nonmetallic mineral and stone products		23.6	7.7	15.9
Metal industries		22.0	9.2	11,1
Primary metal industries	741	15.4	11.3	8.9
Blast furnaces, steelworks, rolling, and finishing mills		11.5	13.4	8.3
Iron and steel foundries		14.6	19.1	7.4
Primary aluminum industries	145	11.4	7.6	10.0
Other primary metal industries	189	25.1	6.7	9.9
Fabricated metal industries		25.6	8.1	12.3
Cutlery, hand tools, and general hardware		38.4	7.0	9.8
Fabricated structural metal products		20.3	6.4	12.2
Screw machine products	85	27.1 28.3	9.9	13.5
Metal forging and stampings	144	28.6	7.4 8.8	5.5
Ordnance	416	26.6	10.4	16.5
Machinery and computing equipment		23.1	6.3	8.0
Engines and turbines		18.3	9.1	10.2
Farm machinery and equipment		16.2	9.8	5.2
Construction and material handling machines		19.3	6.2	4.9
Metal working machinery	323	20.0	3.0	6.3
Computers and related equipment	515	31.3	7.8	8.7
Electrical machinery, equipment, and supplies		38.1	9.1	9.7
Household appliances		35.9	9.6	5.7
Radio, T.V., and communication equipment		34.2 22.7	10.8 10.9	9.4
Transportation equipment		23.6	13.8	6.5
Aircraft and parts		23.0	7.0	9.8
Ship and boat building and repairing		14.7	12.5	8.2
Guided missiles, space vehicles, and parts	274	24.4	6.6	9.0
Cycles and miscellaneous transportation equipment		22.7	1.5	6.8
Professional and photographic equipment, and watches		40.3	7.1	7.9
Scientific and controlling instruments	248	34.4	4.1	5.9

(Numbers in thousands)

Transportation 6,006 27.0 16.1 10.6 Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8			199	18	
Madical dental and optical instruments and supplies	Industry	T-4-1	Pe	rcent of to	tal:
Photographic equipment and supplies			Women	Black	1 5 .
Toys, amusements, and sporting goods	Medical, dental, and optical instruments and supplies	428	46.0	6.8	9.5
Miscellaneous and not specified manufacturing industries	Photographic equipment and supplies	107	31.1	13.2	6.4
Nondurable goods		165	49.4	8.3	11.4
Food and kindred products	Miscellaneous and not specified manufacturing industries	517	38.7	9.9	17.0
Meat products 1439 35,4 21,5 34,2 Daily products 124 27,4 9,2 9,7 Canned, frozen, and preserved fults and vegetables 208 37,0 9,3 25,1 Grain mill products 161 28,3 6,9 14,4 Bakery products 230 31,2 13,5 21,5 Sugar and confectionary products 192 18,7 16,8 8,9 Miscellaneous and not specified food and kindred products 199 41,7 14,0 14,6 Tobacco manufactures 52 26,0 29,6 60 Textlier mill products 595 45,4 22,7 6,6 Kiniting milis 97 61,1 16,5 11,7 6,6 Kiniting milis 98 61,2 22,7 6,6 1,1 16,5 11,7 6,6 1,1 16,5 11,7 2,6 6,7 1,1 16,5 11,2 2,1 1,2 1,1 1,1 1,1 1,1 1,1	Nondurable goods	8,16 8	1		1
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Cannied, frozen, and preserved fruits and vegetables 208 37.0 9.3 25.1 Grain mill products 161 28.3 6.9 14.4 Bakery products 230 31.2 13.5 21.5 Sugar and confectionary products 192 44.1 16.8 20.8 Beverage industries 192 18.7 16.8 8.9 Miscellaneous and not specified food and kindred products 52 26.0 29.6 6.0 Tockcommunifactures 52 26.0 29.6 6.0 Textile mill products 595 45.4 22.7 6.6 Knitting mills 97 61.9 16.5 11.7 Cappets and rugs 85 38.0 17.3 15.6 Yarn, thread, and fabric mills 329 43.2 26.7 6.4 Apparel and obtestile products 825 66.4 14.7 25.9 Apparel and cessories, except kinit 678 67.2 15.7 26.6 Miscellaneous fabricated textille products 18.	·				
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Printing, publishing, and allied industries, except newspapers 1,281 41.6 6.6 9.0 Chemicals and allied products 1,318 33.1 13.1 9.9 Plastics, synthetics, and resins 158 25.9 13.9 15.0 Drugs 369 44.7 12.2 9.0 Soaps and cosmetics 174 51.9 13.4 18.9 Paints, varnishes, and related products 65 24.0 11.9 10.1 Industrial and miscellaneous chemicals 505 21.8 14.1 5.7 Petroleum and coal products 178 20.7 10.4 10.5 Petroleum refining 141 21.0 11.2 7.8 Rubber and miscellaneous plastics products 957 31.9 11.7 13.5 Tires and inner tubes 100 10.4 13.4 4.4 Other rubber products, and plastics footwear and belting 147 32.8 10.5 11.7 Miscellaneous plastics products 711 34.7 17.7 15.2 Leather and leather products 714 32.8 10.5 11.7			47.6	10.4	5.3
Plastics, synthetics, and resins 158 25.9 13.9 15.0 Drugs 369 44.7 12.2 9.0 Soaps and cosmetics 174 51.9 13.4 18.9 Paints, varnishes, and related products 65 24.0 11.9 10.1 Industrial and miscellaneous chemicals 505 21.8 14.1 5.7 Petroleum and coal products 178 20.7 10.4 10.5 Petroleum refining 141 21.0 11.2 7.8 Rubber and miscellaneous plastics products 957 31.9 11.7 13.5 Tires and inner tubes 100 10.4 13.4 4.4 Other rubber products, and plastics footwear and belting 147 32.8 10.5 11.1 Miscellaneous plastics products 711 34.7 11.7 15.2 Leather and leather products 108 44.5 9.5 21.3 Footwear, except rubber and plastic 56 49.0 9.3 16.7 Transportation, communications, and other public utilities 9,307 29.1 15.1 9.5 </td <td></td> <td></td> <td>41.6</td> <td>6.6</td> <td>9.0</td>			41.6	6.6	9.0
Drugs					9.9
Soaps and cosmetics					1
Paints, varnishes, and related products 65 24.0 11.9 10.1 Industrial and miscellaneous chemicals 505 21.8 14.1 5.7 Petroleum and coal products 178 20.7 10.4 10.5 Petroleum refining 141 21.0 11.2 7.8 Rubber and miscellaneous plastics products 957 31.9 11.7 13.5 Tires and inner tubes 100 10.4 13.4 4.4 Other rubber products, and plastics footwear and belting 147 32.8 10.5 11.7 Miscellaneous plastics products 711 34.7 11.7 15.2 Leather and leather products 711 34.7 11.7 15.2 Leather and leather products 56 49.0 9.3 16.7 Transportation, communications, and other public utilities 9,307 29.1 15.1 9.5 Transportation 6,006 27.0 16.1 10.6 Raliroads 302 11.8 17.4 5.7 Bus service and urban tra		l			
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Rubber and miscellaneous plastics products 957 31.9 11.7 13.5 Tires and inner tubes 100 10.4 13.4 4.4 Other rubber products, and plastics footwear and belting 147 32.8 10.5 11.1 Miscellaneous plastics products 711 34.7 11.7 15.2 Leather and leather products 108 44.5 9.5 21.3 Footwear, except rubber and plastic 56 49.0 9.3 16.7 Transportation, communications, and other public utilities 9,307 29.1 15.1 9.5 Transportation 6,006 27.0 16.1 10.6 Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation	Petroleum and coal products				
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Leather and leather products 108 44.5 9.5 21.3 Footwear, except rubber and plastic 56 49.0 9.3 16.7 Transportation, communications, and other public utilities 9,307 29.1 15.1 9.5 Transportation 6,006 27.0 16.1 10.6 Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 <td>Miscellaneous plastics products</td> <td>711</td> <td>34.7</td> <td>11.7</td> <td>15.2</td>	Miscellaneous plastics products	711	34.7	11.7	15.2
Transportation, communications, and other public utilities 9,307 29.1 15.1 9.5 Transportation 6,006 27.0 16.1 10.6 Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Leather and leather products	108	44.5	9.5	21.3
Transportation 6,006 27.0 16.1 10.6 Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Footwear, except rubber and plastic	56	49.0	9.3	16.7
Transportation 6,006 27.0 16.1 10.6 Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Transportation, communications, and other public utilities	9,307	•	15.1	9.5
Railroads 302 11.8 17.4 5.7 Bus service and urban transit 580 36.3 22.4 12.1 Taxicab service 136 9.9 34.2 14.5 Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8		6,006			
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Trucking service 2,413 14.6 14.4 10.5 Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8			1 .		
Warehousing and storage 169 30.6 17.7 15.0 U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Taxicab service		1	1	1
U.S. Postal Service 893 37.6 22.2 8.0 Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Trucking service	2,413	1	I .	
Water transportation 218 21.6 11.7 11.5 Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Warehousing and storage	109	•	1	1
Air transportation 868 37.9 12.7 9.5 Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	U.S. Postal Service	210	4	1	1
Services incidental to transportation 416 59.7 6.1 17.4 Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Water transportation	210	4	1	•
Communications 1,806 41.6 15.0 8.5 Radio and television broadcasting and cable 479 39.7 12.9 7.8	Air transportation	416			
Radio and television broadcasting and cable	Services incuertial to transportation	1 806	k		i i
				1	
	Telephone communications		42.3	15.9	8.7

(Numbers in thousands)

		199	98	
Industry	Takal	Pe	rcent of to	tal:
	Total employed	Women	Black	Hispanio origin
Utilities and sanitary services	1,496	22.3	11.1	6.5
Electric light and power	611	19.9	9.7	4.1
Gas and steam supply systems	171	25.9	11.0	5.7
Electric and gas, and other combinations	155	30.9	7.1	7.2
Water supply and irrigation	247	24.7	11.4	8.3
Sanitary services	296	17.7	16.0	9.2
Wholesale and retail trade	27,203	47.2	9.6	11.4
Wholesale trade	5,090	30.0	7.4	10.8
Durable goods	2,773	28.5	6.1	7.8
Motor vehicles and equipment	239	23.1	6.5	6.7
Furniture and home furnishings	99	40.6	1.1	14.1
Lumber and construction materials	207	20.9	6.7	8.8
Professional and commercial equipment and supplies		36.7	7.9	7.7
Metals and minerals, except petroleum	82	27.7	7.9	8.7
Electrical goods		30.3	7.3	7.0
Hardware, plumbing and heating supplies	293	26.1	4.6	4.7
Machinery, equipment, and supplies		24.4	3.7	4.5
Scrap and waste materials		18.8	11.1	19.0
Miscellaneous wholesale trade, durable goods		43.2	5.6	11.5
Nondurable goods		31.7	9.1	14.5
Paper and paper products	139	39.7	9.5	10.7
Drugs, chemicals, and allied products		42.9	11.6	11.9
Apparel, fabrics, and notions	143	50.6	10.3	18.7
Groceries and related products		26.7	9.5	20.2
Farm products-raw materials		24.3	9.9	3.5
Petroleum products		27.6	6.1	4.3
Alcoholic beverages	115	14.2	10.9	7.8 5.7
Farm supplies Miscellaneous nondurable goods and not specified wholesale trade		26.8 38.1	3.8 8.4	14.1
Description	00 112	E4.4	40.1	11.6
Retail trade	22,113 587	51.1 29.3	10.1 8.9	11.6
Lumber and building material retailing		38.6	6.6	6.1
Hardware stores	120	42.1	3.5	9.5
Department stores		67.0	14.5	10.5
Variety stores	1	68.9	21.4	6.8
Miscellaneous general merchandise stores	l	62.1	19.9	7.9
Grocery stores		51.1	10.3	10.9
Retail bakeries	1	57.1	8.2	11.6
Motor vehicle dealers		19.3	6.9	9.2
Auto and home supply stores	473	16.0	8.2	12.0
Gasoline service stations	396	35.7	9.7	8.4
Miscellaneous vehicle dealers	128	28.3	.6	6.3
Apparel and accessory stores, except shoe		73.9	12.8	10.3
Shoe stores		54.1	19.7	11.2
Furniture and home furnishings stores	622	39.0	7.5	10.8
Household appliance stores		27.9	15.7	12.6
Radio, TV, and computer stores		29.0	7.2	6.8
Music stores		40.7	7.7	9.3
Eating and drinking places	6,743	52.2	10.8 12.4	16.1
Drug stores		66.2 48.0	6.1	11.6
LITTION STUTES		45.1	6.8	8.1
	313	59.3	6.5	6.4
Sporting goods, bicycles, and hobby stores		1 55.5		_
Sporting goods, bicycles, and hobby stores		627	5.4	136
Sporting goods, bicycles, and hobby stores	176	62.7 82.5	5.4 4.6	13.6
Sporting goods, bicycles, and hobby stores		62.7 82.5 63.8	5.4 4.6 7.2	13.6 5.8 9.1

(Numbers in thousands)

		199	8	
Industry	Total	Pe	rcent of to	tal:
	employed	Women	Black	Hispanio origin
Direct selling establishments	369	75.1	6.9	9.7
Fuel dealers		27.0	7.4	3.6
Retail florists		74.7	5.7	8.6
inance, insurance, and real estate	8,605	58.7	10.5	7.1
Banking	1,860	70.7	12.6	7.9
Savings institutions, including credit unions	258	83.2	10.8	7.0
Security, commodity brokerage, and investment companies	918	38.2	7.3	3.9
Insurance	2,563	61.8	10.6	5.3
Real estate, including real estate-insurance offices	2,269	49.9	9.3	9.8
Services		62.1	12.2	8.7
Private households		90.7	15.1	29.3
Other service industries		61.5	12.2	8.2
Business, automobile, and repair services		36.6	11.6	10.8
Advertising		51.2	6.1	6.8
Services to dwellings and other buildings		48.8	16.5	21.2
Personnel supply services		60.2	20.8	12.1
Computer and data processing services		29.7	6.8	4.1
Detective and protective services		21.0	26.0	11.1
Automotive rental and leasing, without drivers		31.6	11.4	12.5
Automobile parking and carwashes		16.9 10.1	19.6 7.7	17.7
Automotive repair and related services		11.7	6.5	14.7
Electrical repair shops		15.2	3.9	9.4
Personal services, except private household	3,484	64.6	13.0	13.9
Hotels and motels	1	57.7	15.4	18.4
Lodging places, except hotels and motels		44.9	5.0	3.8
Laundry, cleaning, and garment services		57.1	14.8	23.0
Beauty shops		89.7	10.8	8.2
Barber shops		18.2	40.6	13.4
Funeral service and crematories	89	28.7	21.2	6.1
Entertainment and recreation services		45.0	9.0	8.4
Theaters and motion pictures	678	41.8	9.8	8.0
Video tape rental	141	58.5	6.2	11.8
Bowling centers		42.7 45.3	3.8 9.1	4.9
	1	75.5	3.1	
Professional and related services	31,392 5,116	69.5 76.3	12.5 16.0	6.9
Health services, except hospitals	6,388	79.0	14.7	7.9
Offices and clinics of physicians	1,581	73.5	6.2	7.8
Offices and clinics of dentists		79.5	3.7	6.8
Offices and clinics of chiropractors		59.4	.9	3.9
Offices and clinics of optometrists		63.3	4.6	5.1
Nursing and personal care facilities		85.0	24.4	7.4
Educational services		68.7	11.6	6.9
Elementary and secondary schools	7,131	75.3	12.4	7.4
Colleges and universities	2,792	52.5	10.1	5.8
Vocational schools	. 86	49.8	8.6	4.2
Libraries	196	73.1	7.9	6.8
Social services	3,240	81.8	17.5	8.8
Job training and vocational rehabilitation services	217	58.8	16.1	5.5
Child day care services	943	95.4	16.5	9.2
Family child care homes	. 498	96.6	11.0	11.0
Residential care facilities, without nursing	. 486	70.9	21.8	9.1
Other professional services	. 6,181	1 49.0	6.2	5.

(Numbers in thousands)

		199	98	
Industry	Total	Pe	rcent of to	tal:
·	Total employed	Women	Black	Hispanic origin
Legal services Museums, art galleries, and zoos Labor unions Religious organizations Engineering, architectural, and surveying services Accounting, auditing, and bookkeeping services Research, development, and testing services Management and public relations services Miscellaneous professional and related services Forestry and fisheries	51 866 910 706 591	56.0 58.8 55.0 50.8 24.0 56.0 48.4 45.3 58.4	6.0 8.5 12.9 8.0 3.7 5.3 6.5 6.6 2.9	6.2 6.7 4.5 5.5 5.1 3.8 5.6 3.8 1.7
Forestry	67 64	26.0 14.3	4.0 3.1	12.1 6.0
Public administration Executive and legislative offices Justice, public order, and safety Public finance, taxation, and monetary policy Administration of human resources programs Administration of environmental quality and housing programs Administration of economic programs National security and international affairs	147 2,442 360 805 264	43.6 56.2 31.1 66.0 69.2 39.4 42.5 37.7	16.5 6.8 16.8 17.7 21.3 7.4 13.4 14.6	6.6 3.8 7.6 6.8 6.1 4.5 4.3 6.8

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 1998, data reflect

new composite estimation procedures and revised population controls used in the household survey.

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

			19	98		
Hours of work	-	Thousands of po	ersons		Percent distrib	ution
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	125,877	3,217	122,660	100.0	100.0	100.0
1 to 34 hours	33,132	987	32.146	26.3	30.7	26.2
1 to 4 hours	1,336	71	1,265	1.1	2.2	1.0
5 to 14 hours	4,914	218	4,696	3.9	6.8	3.8
15 to 29 hours	15,545	465	15,081	12.3	14.4	12.3
30 to 34 hours	11,337	232	11,105	9.0	7.2	9.1
35 hours and over	92,745	2,231	90,514	73.7	69.3	73.8
35 to 39 hours	8,731	174	8,556	6.9	5.4	7.0
40 hours	44,224	760	43,464	35.1	23.6	35.4
41 hours and over	39,790	1,297	38,494	31.6	40.3	31.4
41 to 48 hours	14,608	268	14,340	11.6	8.3	11.7
49 to 59 hours	14,520	387	14,133	11.5	12.0	11.5
60 hours and over	10,663	642	10,020	8.5	20.0	8.2
Average hours, total at work	39.3	41.6	39.2	_	_	_
Average hours, persons who usually work full time	43.2	47.9	43.1	_	-	-

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 1998, data reflect new composite estimation procedures and 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)

			19	98			
		All industries		Nonagricultural industries			
Reason for working less than 35 hours	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time	
Total, 16 years and over	33,132	12,260	20,872	32,146	11,929	20,217	
Economic reasons	3,665	1,322	2,343	3,501	1,238	2,263	
Slack work or business conditions	2,095	1,056	1,038	1,997 1.228	998	999	
Could only find part-time work	1,258 135	89	1,258 47	1,226	- 66	1,228 37	
Job started or ended during week	177	177		174	174	- "	
Noneconomic reasons	29,467	10,938	18,530	28,645	10,691	17,954	
Child-care problems	856	89	767	843	87	755	
Other family or personal obligations	5,551	688	4,863	5,390	673	4,716	
Health or medical limitations	717	-	717	683	_	683	
In school or training	6,394	97	6,297	6,245	94	6,151	
Retired or Social Security limit on earnings	1,889	-	1,889	1,775	_	1,775	
Vacation or personal day	3,487	3,487	-	3,420	3,420	-	
Holiday, legal or religious	3,399	3,399	_	3,357	3,357	-	
Weather-related curtailment	489	489	_	426	426	_	
All other reasons	6,685	2,689	3,997	6,508	2,634	3,874	
Average hours:							
Economic reasons	22.9	23.9	22.4	23.0	24.0	22.4	
Noneconomic reasons	22.1	26.6	19.5	22.2	26.7	19.6	

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

		_		1	998			
	_		Worked 1 t	o 34 hours			Avera	age hours
Industry and class of worker	Total				For noneconomic reasons			
	at work	Tota)	For economic reasons	Usually work full time	Usually work part time	35 hours or more	Total at work	Persons who usually work full time
Total 16 years and over	122,660	32,146	3,501	10,691	17,954	90,514	39.2	43.1
Wage and salary workers	114,157	29,314	3,123	10,049	16,142	84,843	39.2	42.9
Mining	575	55	7	35	14	519	47.6	48.3
Construction	6,748	1,339	289	715	335	5,409	40.8	42.3
Manufacturing Durable goods Nondurable goods	19,667 11,943 7,724	2,765 1,551 1,214	300 132 168	1,735 1,082 653	729 337 392	16,902 10,392 6,510	42.2 42.7 41.6	43.2 43.4 42.9
Transportation and public utilities	8,477 24,679 7,729	1,469 8,493 1,642	176 1,051 77	750 1,405 813	543 6,038 753	7,008 16,186 6,087	42.3 37.1 40.0	44.0 43.5 42.2
Service industries Private households All other industries Public administration	40,616 924 39,691 5,666	12,378 530 11,848 1,172	1,183 85 1,097 40	3,735 47 3,688 862	7,460 398 7,063 271	28,238 395 27,843 4,494	37.7 29.5 37.9 40.5	42.4 42.8 42.3 41.7
Self-employed workers	8,400 103	2,774 58	374 4	637 5	1,763 48	5,626 45	39.6 34.0	46.4 46.6

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

				1	998			
			Worked 1 t	o 34 hours			Avera	ige hours
Age, sex, race, and marital status	Total at		For	For none reas	conomic	Worked 35 hours	Total	Persons who
	work	Total	economic reasons	Usually work full time	Usually work part time	or more	at work	usually work full time
TOTAL				i				
Total, 16 years and over	122,660	32,146	3,501	10,691	17,954	90,514	39.2	43.1
16 to 19 years		4,625	342	262	4,021	1,915	25.2	39.4
16 to 17 years	2,519	2,248	71	50	2,126	271	19.1	37.5
18 to 19 years		2,377	271	212	1,895	1,644	29.0	39.7
20 years and over		27,521	3,159	10,429	13,933	88,599	40.0	43.2
20 to 24 years		4,026	587	911	2,528	7,812	36.2	41.4
25 years and over		23,495	2,572	9,518	11,405	80,786	40.5	43.3
25 to 54 years		18,457	2,236	8,158	8,063	70,859	41.1	43.4
55 years and over	14,965	5,038	335	1,361	3,342	9,927	37.0	42.6
Men, 16 years and over	65,847	12,311	1,663	5,158	5,490	53,536	42.2	44.6
16 to 19 years		2,128	160	136	1,832	1,107	26.7	40.1
16 to 17 years		1,074	39	26	1,009	164	20.2	38.4
18 to 19 years		1,055	120	111	824	943	30.8	40.4
20 years and over		10,183	1,504	5,022	3,657	52,429	43.0	44.7
20 to 24 years		1,732	290	433	1,009	4,477	38.3	42.5
25 years and over		8,451	1,214	4,588	2,649	47,952	43.5	44.9
25 to 54 years	48,154	6,232	1,051	3,884	1,298	41,921	44.1	45.0
55 years and over	8,249	2,219	163	704	1,351	6,031	39.5	44.0
Women, 16 years and over	56,813	19,835	1,837	5,533	12,464	36,978	35.9	41.0
16 to 19 years		2,497	182	126	2,189	808	23.7	38.5
16 to 17 years		1,174	32	25	1,118	107	18.1	36.3
18 to 19 years		1,323	150	101	1,071	701	27.3	38.9
20 years and over		17,338	1,655	5,408	10,275	36,170	36.6	41.0
20 to 24 years		2,294	298	477	1,519	3,335	33.9	39.9
25 years and over		15,044	1,358	4,930	8,756	32,834	36.9	41.1
25 to 54 years	41,162	12,225	1,185	4,274	6,765	28,938	37.4	41.2
55 years and over	6,716	2,819	172	656	1,991	3,897	33.8	40.6
Race							:	
White, 16 years and over		27,449	2,748	8,967	15,734	75,692	39.3	43.3
Men	56,245	10,473	1,336	4,413	4,723	45,772	42.4	44.8
Women	46,895	16,976	1,412	4,553	11,011	29,919	35.6	41.1
Black, 16 years and over		3,353	580	1,287	1,487	10,477	38.7	41.5
Men		1,265	242	538 749	486	5,269	40.7 36.8	42.9 40.2
Women	7,296	2,088	338	/49	1,000	5,208	30.6	40.2
Marital status			1					
Men, 16 years and over:	00.0=0	5 000	200	0.054	1 700	24 200	44.0	45.0
Married, spouse present		5,639	662	3,251	1,726	34,333	44.0	45.3
Widowed, divorced, or separated		1,329	249	650	430	6,587	42.8	44.5
Single (never married)	. 17,958	5,343	753	1,257	3,333	12,615	37.8	42.8
Women, 16 years and over:	00.047	40.500	740	2.070	6 770	10.740	25.0	40.9
Married, spouse present	30,317	10,569	719	3,070	6,779	19,749	35.8 38.0	40.8 41.4
Widowed, divorced, or separated		3,242	442 676	1,231	1,569 4,115	8,242 8,987	34.2	40.9
Single (never married)	. 15,011	6,024	6/6	1,233	7,113	0,307	34.2	40.9

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

					1998			
	ı		Worked 1 t	o 34 hours			Avera	age hours
Occupation and sex	Total		For		economic sons	Worked 35 hours	Total	Persons who
	at work	Total	economic reasons	Usually work full time	Usually work part time	or more	at work	usually work full time
Total, 16 years and over ¹	122,536	32,110	3,484	10,671	17,955	90,427	39.2	43.1
Managerial and professional specialty	36,978	7,751	497	3,535	3,719	29,227	41.8	44.5
Executive, administrative, and managerial	18,373	3,013	172	1,626	1,215	15,360	43.6	45.5
Professional specialty		4,737	324	1,908	2,505	13,867	39.9	43.4
Technical, sales, and administrative support		11,290	920	3,284	7,086	25,739	37.4	42.1
Technicians and related support		981	66	403	512	3,114	39.2	41.9
Sales occupations		4,816	510	926	3,379	10,456	38.5	44.6
Administrative support, including clerical		5,493	343	1,955	3,194	12,169	36.1 34.7	40.1 42.0
Service occupations		6,881 478	945 75	1,105 40	4,831 363	10,178 337	34.7 29.0	42.0
Private household	1	399	33	166	200	1,914	42.5	45.0
Service, except private household and protective		6,005	838	899	4,268	7,926	33.8	41.3
Precision production, craft, and repair		2,284	433	1,279	571	11,613	41.8	43.0
Operators, fabricators, and laborers	1 .	3,904	690	1,467	1,748	13,670	40.1	42.8
Machine operators, assemblers, and inspectors		1,298	228	681	389	6,240	40.6	41.9
Transportation and material moving occupations	5,123	985	166	372	447	4,138	43.2	45.8
Handlers, equipment cleaners, helpers, and laborers	4,913	1,622	296	414	912	3,292	36.2	40.9
Men, 16 years and over ¹	65,575	12,200	1,648	5,128	5,424	53,376	42.2	44.6
Managerial and professional specialty	19,158	2,800	215	1,552	1,033	16,359	44.8	46.5
Executive, administrative, and managenal	10,266	1,224	93	743	389	9,041	46.2	47.4
Professional specialty		1,575	122	809	644	7,317	43.2	45.4
Technical, sales, and administrative support		2,648	252	941	1,454	10,736	41.9	44.9
Technicians and related support		322	27	168	127	1,591	41.7	43.4
Sales occupations		1,477	144	421	913 414	6,177	43.2	46.7 42.1
Administrative support, including clerical		848 2,065	82 301	353 424	1,340	2,968 4,907	39.3 38.0	43.4
Service occupations		2,003	6	1	15	22	30.4	41.6
Protective service		278	22	135	120	1,625	43.8	45.6
Service, except private household and protective		1,764	272	287	1,205	3,259	35.9	42.3
Precision production, craft, and repair		2.016	403	1,162	451	10,742	42.1	43.2
Operators, fabricators, and laborers		2,672	477	1,049	1,146	10,632	41.1	43.5
Machine operators, assemblers, and inspectors		665	110	396	158	4,086	41.8	42.7
Transportation and material moving occupations		786	141	328	317	3,836	44.0	46.1
Handlers, equipment cleaners, helpers, and laborers	1	1,221	226	325	671	2,711	36.8	41.2
Women, 16 years and over ¹	56,961	19,910	1,837	5,543	12,531	37,051	35.8	41.0
Managerial and professional specialty	17,820	4,951	282	1,983	2,687	12,869	38.4	42.1
Executive, administrative, and managerial		1,789	79	884	826	6,319	40.4	42.8
Professional specialty	9,712	3,162	203	1,099	1,860	6,550	36.8	41.3
Technical, sales, and administrative support		8,642	667	2,343	5,632	15,003	34.9	40.2
Technicians and related support		659	40	235	385	1,524	37.0	40.4
Sales occupations		3,338	366	506	2,466	4,279	33.8	41.7 39.5
Administrative support, including clerical		4,644 4,817	261 644	1,603 681	2,781 3,491	9,201 5,271	35.3 32.4	40.8
Service occupations	1 '	455	68	38	348	315	29.0	42.7
Protective service		121	111	31	79	289	36.6	41.6
Service, except private household and protective	1	4,241	566	612	3,064	4,667	32.5	40.6
Precision production, craft, and repair		268	31	117	120	871	38.6	41.1
Operators, fabricators, and laborers		1,232	213	418	602	3,037	37.2	40.5
Machine operators, assemblers, and inspectors		633	118	285	230	2,154	38.5	40.4
Transportation and material moving occupations		199	25	43	131	302	36.0	42.6
Handlers, equipment cleaners, helpers, and laborers		400	70	90	241	581	34.0	39.6

Excludes farming, forestry, and fishing occupations. NOTE: Beginning in January 1998, data reflect new composite estimation

HOUSEHOLD DATA ANNUAL AVERAGES

24. Unemployed persons by marital status, race, age, and sex

		М	en			Wor	nen	
Marital status, race, and age	Thousa pers	ands of sons		loyment tes	Thousa pers		Unempl rat	,
	1997	1998	1997	1998	1997	1998	1997	1998
Total, 16 years and over	3,577	3.266	4.9	4.4	3.162	2,944	5.0	4.6
Married, spouse present	1.167	1,034	2.7	2.4	1.047	985	3.1	2.9
Widowed, divorced, or separated	504	435	5.8	4.8	660	628	5.2	4.9
Single (never married)	1,906	1,798	9.2	8.5	1,455	1,332	8.8	7.8
White, 16 years and over	2,641	2,431	4.2	3.9	2,195	2,053	4.2	3.9
Married, spouse present	957	836	2.5	2.2	855	808	2.9	2.7
Widowed, divorced, or separated	382	334	5.3	4.5	461	449	4.6	4.4
Single (never married)	1,303	1,261	7.8	7.4	879	797	7.1	6.3
Black, 16 years and over	747	671	10.2	8.9	813	756	9.9	9.0
Married, spouse present	141	133	4.3	3.9	131	120	5.2	4.5
Widowed, divorced, or separated	99	84	8.3	6.9	172	156	7.7	7.0
Single (never married)	506	455	17.7	15.4	510	480	15.0	13.5
Total, 25 years and over	2,246	1,998	3.6	3.2	2,069	1.926	3.9	3.6
Married, spouse present	1,095	980	2.6	2.3	943	878	2.9	2.7
Widowed, divorced, or separated	478	415	5.6	4.8	612	590	4.9	4.8
Single (never married)	674	602	6.2	5.5	514	458	6.3	5.4
White, 25 years and over	1,700	1,516	3.2	2.8	1,458	1,361	3.3	3.1
Married, spouse present	899	790	2.4	2.1	770	717	2.7	2.5
Widowed, divorced, or separated	359	318	5.1	4.4	426	418	4.4	4.3
Single (never married)	442	407	5.1	4.7	263	226	4.6	3.8
Black, 25 years and over	420	373	6.9	6.0	510	471	7.6	6.8
Married, spouse present	129	126	4.0	3.8	117	109	4.8	4.3
Widowed, divorced, or separated	97	81	8.2	6.8	162	151	7.4	6.9
Single (never married)	195	166	11.5	9.5	231	211	11.0	9.5

NOTE: Beginning in January 1998, data reflect new composite estimation

25. Unemployed persons by occupation and sex

		ands of sons			Unemploy	ment rates		
Occupation	То	tal	То	otal	М	en	Woi	men
	1997	1998	1997	1998	1997	1998	1997	1998
Total, 16 years and over ¹	6,739	6,210	4.9	4.5	4.9	4.4	5.0	4.6
Managerial and professional specialty		722	2.0	1.8	1.9	1.7	2.1	2.0
Executive, administrative, and managerial	359	343	1.9	1.8	1.8	1.6	2.0	2.0
Professional specialty	403	380	2.0	1.9	2.0	1.8	2.1	2.0
Technical, sales, and administrative support	1,646	1,550	4.1	3.9	3.6	3.3	4.4	4.2
Technicians and related support	104	96	2.4	2.2	2.2	2.3	2.6	2.1
Sales occupations		745	4.9	4.5	3.6	3.3	6.2	5.6
Administrative support, including clerical	728	710	3.8	3.7	4.2	4.0	3.7	3.6
Service occupations	1,255	1,216	6.7	6.4	6.5	6.3	6.8	6.4
Private household	73	74	8.4	8.0	12.6	8.7	8.2	8.0
Protective service	89	85	3.7	3.4	3.4	3.1	5.2	5.0
Service, except private household and protective	1,093	1,057	7.0	6.8	7.6	7.5	6.7	6.3
Precision production, craft, and repair	719	630	4.8	4.2	4.8	4.1	5.1	4.8
Mechanics and repairers	167	149	3.5	3.0	3.4	3.1	4.5	2.3
Construction trades	406	338	7.0	5.7	7.0	5.6	7.2	10.4
Other precision production, craft, and repair	145	143	3.4	3.4	3.0	3.1	5.0	4.6
Operators, fabricators, and laborers	1,490	1,304	7.5	6.7	7.1	6.3	8.8	7.7
Machine operators, assemblers, and inspectors	551	494	6.5	6.0	5.1	5.0	8.6	7.6
Transportation and material moving occupations	306	279	5.4	4.9	5.3	4.8	6.0	6.3
Handlers, equipment cleaners, helpers, and laborers	633	531	11.1	9.4	11.3	9.6	10.5	8.8
Construction laborers	167	136	17.1	14.2	16.9	14.2	20.8	16.0
Other handlers, equipment cleaners, helpers, and laborers	467	395	9.9	8.4	9.9	8.4	10.1	8.5
Farming, forestry, and fishing	267	244	7.1	6.5	6.9	6.1	7.8	8.0
No previous work experience	569	520	_	_	_	_	_	-
16 to 19 years	388	361	-	-	-	-	-	_
20 to 24 years	85	80	- 1	-	_	_	-	_
25 years and over	96	80	-	-	-	-	-	-

 $^{^{\}mbox{\scriptsize 1}}$ Includes a small number of persons whose last job was in the Armed Forces.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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26. Unemployed persons by industry and sex

		ands of sons			Unemploy	ment rates		
Industry	Тс	ital	To	tal	M	en	Wor	men
	1997	1998	1997	1998	1997	1998	1997	1998
Total, 16 years and over	6,739	6,210	4.9	4.5	4.9	4.4	5.0	4.6
Nonagricultural private wage and salary workers	5,225	4,873	5.0	4.6	4.9	4.5	5.1	4.8
Mining	24	20	3.8	3.2	3.7	3.4	4.1	1.8
Construction	623	532	9.0	7.5	9.2	7.7	6.9	5.9
Manufacturing	885	816	4.2	3.9	3.5	3.3	5.5	5.2
Durable goods	445	426	3.5	3.4	3.3	3.0	4.2	4.2
Lumber and wood products	47	43	5.9	5.2	5.7	5.3	7.0	4.8
Funiture and fixtures		26	4.7	3.8	4.5	3.5	5.1	4.6
Stone, clay, and glass products	26	18	4.2	3.1	4.4	2.4	3.4	5.4
Primary metal industries		27	3.8	3.6	3.6	3.4	5.1	4.8
Fabricated metal products		49	3.1	3.5	2.9	3.4	3.7	3.7
Machinery, except electrical	. —	78	3.0	3.1	2.7	2.9	3.7	3.8
Electrical machinery, equipment, and supplies		54	2.9	2.7	2.5	2.4	3.6	3.3
Transportation equipment		72	3.3	3.0	3.1	2.6	3.8	4.4
Automobiles		47	3.7	3.4	3.6	3.0	4.0	4.9
Other transportation equipment		25	2.7	2.4	2.5	2.1	3.5	3.5
Professional and photographic equipment	19	20	2.6	2.5	2.4	2.0	2.8	3.4
Other durable goods industries		38	5.4	5.6	3.6	4.2	8.0	7.5
Nondurable goods		390	5.1	4.7	4.0	3.7	6.7	7.3 6.2
Food and kindred products		111	7.4	6.4	5.5	5.2	10.9	
		29	4.6	4.7	3.0			8.6
Textile mill products		76	9.1	4.7 8.8		3.7	6.8	5.9
Apparel and other textile products		18			7.0	6.0	10.0	10.1
Paper and allied products			3.2	2.6	3.3	2.4	3.2	3.3
Printing and publishing		67	3.8	3.8	3.9	3.5	3.7	4.2
Chemicals and allied products		34	2.8	2.5	2.6	2.1	3.1	3.3
Rubber and miscellaneous plastics products		38	4.3	3.8	3.6	3.1	5.9	5.5
Other nondurable goods industries	16	16	4.2	4.6	3.2	4.0	6.1	5.9
Transportation and public utilities		254	3.5	3.4	3.4	3.3	3.8	3.5
Transportation		185	4.2	4.0	4.2	4.0	4.3	4.0
Communications and other public utilities		69	2.3	2.4	1.9	2.1	3.1	2.9
Wholesale and retail trade	1,645	1,493	6.2	5.5	5.6	5.1	6.9	6.0
Wholesale trade		185	3.7	3.7	3.2	3.4	4.8	4.6
Retail trade	1,469	1,308	6.8	6.0	6.3	5.7	7.2	6.2
Finance, insurance, and real estate	229	197	3.0	2.5	3.0	2.3	3.0	2.6
Service industries		1,562	4.6	4.5	4.8	4.7	4.5	4.4
Professional services	589	593	2.9	2.9	2.7	2.5	3.1	3.1
Other service industries	970	968	7.1	6.9	6.6	6.5	7.6	7.3
Agricultural wage and salary workers		180	9.1	8.3	9.1	7.9	9.1	9.3
Government, self-employed, and unpaid family workers		636	2.6	2.2	2.7	2.0	2.4	2.3
No previous work experience	569	520	-	-	_	-	-	-

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

Reason	16 y	tal, ears over	20 y	en, rears over	20 y	men, rears over		sexes, o 19 ars
	1997	1998	1997	1998	1997	1998	1997	1998
NUMBER OF UNEMPLOYED								
Total unemployed Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants	6,739 3,037 931 2,106 1,436 670 795 2,338 569	6,210 2,822 866 1,957 1,353 603 734 2,132 520	2,882 1,795 567 1,228 833 395 358 675 55	2,580 1,588 483 1,105 763 343 318 611 63	2,585 1,069 304 764 541 224 333 1,057	2,424 1,053 322 731 527 204 330 944 97	1,271 174 60 114 63 51 104 606 388	1,205 181 61 120 64 56 86 577 361
PERCENT DISTRIBUTION								
Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Job leavers Reentrants New entrants	45.1 13.8 31.3 11.8 34.7 8.4	45.5 13.9 31.5 11.8 34.3 8.4	62.3 19.7 42.6 12.4 23.4 1.9	61.5 18.7 42.8 12.3 23.7 2.4	41.3 11.8 29.6 12.9 40.9 4.9	43.4 13.3 30.2 13.6 39.0 4.0	13.7 4.7 9.0 8.2 47.6 30.5	15.0 5.1 10.0 7.2 47.9 30.0
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers and persons who completed temporary jobs Job leavers	2.2 .6 1.7 .4	2.1 .5 1.5 .4	2.6 .5 1.0 .1	2.3 .5 .9 .1	1.8 .6 1.8 .2	1.8 .6 1.6 .2	2.2 1.3 7.6 4.9	2.2 1.0 7.0 4.4

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

Reason for unemployment	To	tal	W	nite	Bla	ack	Hispani	ic origin
neason to unemployment	1997	1998	1997	1998	1997	1998	1997	1998
NUMBER OF UNEMPLOYED				:	;			
Total, 16 years and over Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff Permanent job losers Persons who completed temporary jobs Job leavers Reentrants New entrants	6,739	6,210	4,836	4,484	1,560	1,426	1,069	1,026
	3,037	2,822	2,284	2,116	616	585	500	471
	931	866	778	716	121	116	158	146
	2,106	1,957	1,506	1,399	495	469	343	325
	1,436	1,353	1,063	988	298	300	207	206
	670	603	443	412	197	170	135	119
	795	734	623	568	138	133	96	95
	2,338	2,132	1,576	1,467	634	558	350	346
	569	520	354	333	172	151	122	113
PERCENT DISTRIBUTION Job losers and persons who completed temporary jobs On temporary layoff Not on temporary layoff	45.1	45.5	47.2	47.2	39.5	41.0	46.8	46.0
	13.8	13.9	16.1	16.0	7.8	8.1	14.8	14.3
	31.3	31.5	31.1	31.2	31.7	32.9	32.0	31.7
	11.8	11.8	12.9	12.7	8.8	9.3	9.0	9.3
	34.7	34.3	32.6	32.7	40.7	39.1	32.7	33.7
	8.4	8.4	7.3	7.4	11.0	10.6	11.4	11.0
CIVILIAN LABOR FORCE Job losers and persons who completed temporary jobs Job leavers	2.2	2.1	2.0	1.8	4.0	3.7	3.6	3.3
	.6	.5	.5	.5	.9	.8	.7	.7
	1.7	1.5	1.4	1.3	4.1	3.5	2.5	2.4
	.4	.4	.3	.3	1.1	.9	.9	.8

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(Percent distribution)

				1998			
	Total une	employed		Durati	on of unemplo	yment	
Reason, sex, and age	-			54-44	15	weeks and o	ver
	Thousands of persons	Percent	Less than 5 weeks	weeks	to 14 reeks	27 weeks and over	
Total, 16 years and over	6,210	100.0	42.2	31.4	26.4	12.3	14.1
lob losers and persons who completed temporary jobs		100.0	42.4				12.4
On temporary layoff	866	100.0	58.3				4.5
Not on temporary layoff	1.957	100.0	35.4				15.9
Permanent job losers	1.353	100.0	33.0			l	17.0
Persons who completed temporary jobs		100.0	40.7				13.6
Job leavers	734	100.0	49.4				9.8
Reentrants	2,132	100.0	40.3				17.2
New entrants	520	100.0	39.0				16.3
Men, 20 years and over	2,580	100.0	38.8		30.5	13.2	17.3
lob losers and persons who completed temporary jobs	1,588	100.0	39.9	32.1	28.1	13.6	14.5
On temporary layoff	483	100.0	55.3	30.2	14.5	9.8	4.8
Not on temporary layoff	1,105	100.0	33.1	32.9	34.0	15.3	18.7
Permanent job losers	763	100.0	31.6	32.1	36.3	16.6	19.7
Persons who completed temporary jobs	343	100.0	36.6	34.5	28.9	12.5	16.4
lob leavers	318	100.0	44.7	31.5	23.8	10.9	12.9
Reentrants	611	100.0	34.7	26.9	38.5	13.4	25.0
New entrants	63	100.0	20.5	32.3	47.3	10.9	36.4
Women, 20 years and over		100.0	41.5				14.0
Job losers and persons who completed temporary jobs	1,053	100.0	42.5	32.2	25.3	14.2	11.1
On temporary layoff	322	100.0	58.6	28.4	13.0	8.2	4.8
Not on temporary layoff	731	100.0	35.3	33.9	30.8	16.9	13.9
Permanent job losers	527	100.0	32.1	34.9	33.0	18.4	14.7
Persons who completed temporary jobs	204	100.0	43.7	31.3	24.9	13.0	11.9
Job leavers	330	100.0	49.6	30.9	19.5	10.2	9.3
Reentrants	944	100.0	38.6	30.3	31.1	13.3	17.8
New entrants	97	100.0	31.1	30.6	38.2	13.6	24.6
Both sexes, 16 to 19 years		100.0	51.2	33.2	15.7	8.3	7.3
lob losers and persons who completed temporary jobs	181	100.0	64.0	29.0	7.0	4.8	2.2
On temporary layoff	61	100.0	80.1	15.5	4.4	3.6	.7
Not on temporary layoff	120	100.0	55.8	35.8	8.4	5.4	3.0
Permanent job losers		100.0	57.0	34.7	8.3	4.9	3.4
Persons who completed temporary jobs		100.0	54.5	37.1	8.4	5.9	2.5
Job leavers	86	100.0	66.0	29.7	4.2	3.6	6
Reentrants	577	100.0	49.1	33.6	17.3	9.4	7.9
New entrants	361	100.0	44.4	35.4	20.2	9.5	10.6

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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

		To	tal			Full-time	workers	
Duration of unemployment	Thousands of persons		Percent d	istribution	Thousands	of persons	Percent distribution	
otal, 16 years and over	1997	1998	1997	1998	1997	1998	1997	1998
Total, 16 years and over	6,739	6,210	100.0	100.0	5,395	4,916	100.0	100.0
ess than 5 weeks	2,538	2,622	37.7	42.2	1,862	1,909	34.5	38.8
to 14 weeks	2,138	1,950	31.7	31.4	1,713	1,574	31.8	32.0
5 to 10 weeks	1,474	1,375	21.9	22.1	1,156	1,093	21.4	22.
11 to 14 weeks	664	575	9.9	9.3	557	481	10.3	9.
5 weeks and over	2,062	1,637	30.6	26.4	1,820	1,433	33.7	29.
15 to 26 weeks	995	763	14.8	12.3	864	662	16.0	13.
27 weeks and over	1,067	875	15.8	14.1	956	771	17.7	15.
27 to 51 weeks	479	379	7.1	6.1	428	340	7.9	6.
52 weeks and over	589	496	8.7	8.0	528	431	9.8	8.
verage (mean) duration, in weeks	15.8	14.5	-	_	17.1	15.6	-	_
Median duration, in weeks	8.0	6.7	_	_	8.9	7.6	- 1	-

NOTE: Beginning in January 1998, data reflect new composite estimation

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

				19	98			
	-		Thousands	of persons			We	eks
Characteristic		Less	- · · · ·	15	weeks and o	ver	Average	
	Total	than 5 weeks	5 to 14 weeks	Total	15 to 26 weeks	27 weeks and over	(mean) duration	Median duration
TOTAL								_
Total, 16 years and over	6,210	2,622	1,950	1,637	763	875	14.5	6.7
16 to 19 years	1,205	616	400	189	100	. 88	9.5	4.4
20 to 24 years	1,081	496	347	238	118	120	12.3	5.6
25 to 34 years	1,419	578	458	383	184	199	14.4	7.1
35 to 44 years	1,258	484	384	390	175	216	16.4	7.9
45 to 54 years	782	278	239	265	120	146	17.9	8.7
55 to 64 years	343	117	94	131	51	81	22.7	9.8
65 years and over	122	53	29	40	15	25	19.2	6.7
Men, 16 years and over	3,266	1,342	1,029	895	398	496	15.2	7.0
16 to 19 years	686	342	236	108	58	50	9.6	4.5
20 to 24 years	583	253	193	137	63	73	13.5	6.2
25 to 34 years	699	284	224	192	86	106	15.0	7.3
35 to 44 years	609	227	182	200	83	117	17.6	8.3
45 to 54 years	420 201	138	126	156	69	87	19.4	9.6
55 to 64 years	69	70 29	53 16	78 23	30 9	49 15	22.6 19.2	10.1 7.1
Women, 16 years and over	2,944	1,280	921	743	364	378	13.7	6.3
16 to 19 years	519	275	164	81	42	39	9.3	4.2
20 to 24 years	498	243	154	101	55	47	11.0	4.9
25 to 34 years	720	294	234	191	98	93	13.8	7.0
35 to 44 years	650	257	202	190	92	99	15.3	7.5
15 to 54 years	362	140	113	109	51	59	16.2	7.7
55 to 64 years	141	47	41	53	21	32	22.8	9.4
65 years and over	53	23	13	17	7	10	19.2	6.3
Race and Hispanic origin								
White, 16 years and over	4,484	2,021	1,395	1,068	526	541	13.1	5.8
Men	2,431	1,057	757	616	290	326	13.9	6.3
Women	2,053	964	637	451	236	216	12.1	5.3
Black, 16 years and over	1,426	477	466	483	198	285	18.4	9.2
Vomen	671 756	221 256	224 242	226 257	85 112	140 145	19.0 17.9	9.1 9.2
Hispanic origin, 16 years and over	1,026	435	319	272	127	145	14.3	
Men	552	228	179	146	68	78	14.3	6.7 7.0
Nomen	473	207	141	126	59	67	14.1	6.3
Marital status								
Men, 16 years and over:				_				
Married, spouse present	1,034	386	323	324	146	178	16.7	8.2
Nidowed, divorced, or separatedSingle (never married)	435 1,798	175 781	119 587	141 429	61 192	80 238	18.0 13.7	7.9 6.2
Women, 16 years and over:								
Married, spouse present	985	444	298	242	127	115	13.0	5.9
Widowed, divorced, or separated	628	232	205	190	87	103	17.0	8.0
Single (never married)	1,332	603	417	311	150	160	12.7	5.8
J		1		l -	l		l	1 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

				19	98			
			Thousands	of persons			We	eks
Occupation and industry		Less	5 4- 14	15	weeks and c	ver	Average	A 441
	Total	than 5 weeks	5 to 14 weeks	Total	15 to 26 weeks	27 weeks and over	(mean) duration	Median duration
OCCUPATION								
Managerial and professional specialty Technical, sales, and administrative support Service occupations Precision production, craft, and repair Operators, fabricators, and laborers Farming, forestry, and fishing	630 1,304	297 668 527 280 536 103	214 490 370 189 427 78	211 393 320 161 341 63	99 186 143 77 164 36	112 206 177 84 177 27	15.8 13.9 14.6 13.9 14.3	7.2 6.5 6.3 6.1 7.0 6.7
INDUSTRY ¹								
Agriculture Construction Manufacturing Durable goods Nondurable goods Transportation and public utilities Wholesale and retail trade Finance, insurance, and real estate Services Public administration	544 818 427 391 281	75 233 331 180 150 114 666 72 779 39	61 177 258 132 125 86 475 69 553 25	44 134 230 115 115 80 359 63 470 44	24 68 117 57 59 31 168 28 222	20 66 113 58 56 49 191 34 248	13.0 13.7 14.5 14.3 14.7 16.1 13.3 16.3 14.4 21.3	7.0 6.5 7.3 6.9 7.8 7.0 6.1 8.2 6.5
No previous work experience	520	203	178	140	54	85	15.7	7.2

¹ Includes wage and salary workers only.
NOTE: Beginning in January 1998, data reflect new composite estimation

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

(Numbers in thousands)

	1998										
Sex, age, and race	Thousands of persons		Methods used as a percent of total jobseekers								
	Total unem- ployed	Total job- seekers	Employer directly	Sent out resumes or filled out applications	Placed or answered ads	Friends or relatives	Public employ- ment agency	Private employ- ment agency	Other	Average number of methods used	
Total, 16 years and over	6,210	5,344	64.6	48.6	15.9	14.8	19.2	6.9	8.8	1.79	
16 to 19 years	1,205	1,144	62.7	54.2	9.8	10.8	8.9	2.4	5.6	1.55	
20 to 24 years	1,081	989	65.9	48.0	15.3	13.9	18.8	7.3	8.0	1.78	
25 to 34 years	1,419	1,204	65.8	47.8	18.0	16.5	22.7	7.8	9.6	1.89	
35 to 44 years	1,258	1,035	65.9	47.1	18.5	15.6	24.2	8.7	9.1	1.90	
45 to 54 years	782	619	64.5	48.2	18.6	17.8	23.8	10.4	11.1	1.95	
55 to 64 years	343	264	62.2	42.0	19.6	17.5	21.0	7.7	13.7	1.84	
65 years and over	122	89	53.8	32.4	13.4	14.4	11.0	2.9	15.3	1.44	
]	33.5						10.0	1	
Men, 16 years and over	3,266	2,748	65.6	46.7	15.8	16.3	19.2	6.9	9.4	1.80	
16 to 19 years	686	650	62.6	52.9	9.3	12.0	8.5	2.5	5.1	1.53	
20 to 24 years	583	522	66.5	44.7	15.0	15.5	18.4	7.2	7.9	1.76	
25 to 34 years	699	559	67.7	45.5	18.1	18.6	23.3	7.3	10.2	1.91	
35 to 44 years	609	481	69.2	45.3	18.7	17.6	25.6	8.9	10.0	1.96	
45 to 54 years	420	325	64.7	45.8	19.9	20.2	25.5	12.1	13.5	2.03	
55 to 64 years	201	159	62.7	42.2	19.9	16.9	22.6	7.8	15.4	1.88	
65 years and over	69	52	53.0	34.3	12.8	13.8	9.3	2.4	21.0	1.49	
Women, 16 years and over	2,944	2,596	63.6	50.6	16.1	13.2	19.1	6.9	8.2	1.78	
16 to 19 years	519	494	62.8	55.9	10.5	9.2	9.5	2.3	6.1	1.57	
20 to 24 years	498	467	65.2	51.8	15.7	12.0	19.3	7.4	8.1	1.80	
25 to 34 years	720	645	64.1	49.8	17.9	14.7	22.2	8.2	9.1	1.86	
35 to 44 years	650	554	63.1	48.7	18.3	13.8	22.9	8.5	8.3	1.84	
45 to 54 years	362	294	64.2	50.8	17.1	15.2	21.8	8.5	8.4	1.86	
55 to 64 years	141	106	61.4	41.6	19.1	18.3	18.5	7.6	11.2	1.78	
65 years and over	53	36	55.0	29.7	14.3	15.2	13.4	3.6	7.0	1.38	
White, 16 years and over	4,484	3,767	64.8	48.4	32.6	31.1	35.2	13.3	9.5	1.79	
Men	2,431	1,997	65.8	47.0	16.2	14.0	17.9	6.7	10.3	1.82	
Women	2,053	1,770	63.7	49.8	16.4	17.1	17.3	6.6	8.5	1.77	
Black, 16 years and over	1,426	1,311	64.5	49.9	29.2	24.5	47.9	14.8	6.7	1.79	
Men	671	604	65.6	46.6	14.1	13.5	24.5	7.3	6.5	1.78	
Women	756	706	63.5	52.7	15.1	11.0	23.4	7.5	6.9	1.80	

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey

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

	1998										
Sex and reason		Thousands of persons		Methods used as a percent of total jobseekers							
		Total job- seekers	Employer directly	Sent out resumes or filled out applica- tions	Placed or answered ads	Friends or relatives	Public employ- ment agency	Private employ- ment agency	Other	Average number or methods used	
Total, 16 years and over	6,210	5,344	64.6	48.6	15.9	14.8	19.2	6.9	8.8	1.79	
	2,822	1,957	68.0	47.1	19.7	17.5	25.2	9.5	10.0	1.98	
	734	734	67.9	51.2	18.8	13.4	20.2	7.7	7.8	1.87	
	2,132	2,132	61.1	48.2	13.1	13.0	15.6	5.4	8.8	1.65	
	520	520	61.7	51.8	9.4	14.0	9.8	2.4	6.2	1.56	
Men, 16 years and over Job losers and persons who completed temporary jobs Job leavers Reentrants New entrants	3,266	2,748	65.6	46.7	15.8	16.3	19.2	6.9	9.4	1.80	
	1,703	1,185	69.4	44.9	19.1	18.7	24.6	9.4	10.6	1.97	
	368	368	68.6	49.7	18.4	15.0	19.7	7.1	7.9	1.87	
	931	931	60.7	46.0	12.4	14.3	15.1	4.9	9.7	1.64	
	264	264	61.6	53.0	8.9	14.2	8.7	2.7	5.7	1.55	
Women, 16 years and over Job losers and persons who completed temporary jobs Job leavers Reentrants New entrants	2,944	2,596	63.6	50.6	16.1	13.2	19.1	6.9	8.2	1.78	
	1,119	772	65.9	50.6	20.6	15.7	26.0	9.7	9.1	1.98	
	366	366	67.2	52.7	19.1	11.8	20.7	8.4	7.6	1.88	
	1,201	1,201	61.4	49.9	13.6	11.9	15.9	5.8	8.1	1.67	
	257	257	61.9	50.6	10.0	13.7	10.9	2.1	6.7	1.56	

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 1998, data reflect new composite estimation procedures and 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)

	Тс	otal			A	ge				s	ex	
Category	1997	1998		o 24 ars		o 54 ars		ears over	М	en	Wo	men
			1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
Total not in the labor force	66,837	67,547	11,343	11,343	18,552	18.732	36.942	37,472	24.454	24.799	42,382	42,748
Do not want a job now ¹	61,895	62,735	9,434	9,491	16,311	16,580		36,664	22,420			39,945
Want a job1	4,941	4,812	1,909	1,852	2,241	2,152		807	2,034			2.803
Did not search for work in previous year	2,857	2,859	1.034	1,011	1,245	1,240	579	608	1,118	1,134	1,739	1.725
Searched for work in previous year ²	2,084	1,953	875	841	997	912	212	200	917	875	1,168	1,078
Not available to work now	669	643	346	332	289	275	34	36	257	250	412	392
Available to work now	1,416	1,310	529	509	708	637	178	164	659	624	756	686
Reason not currently looking:								'		Ì	ł	
Discouragement over job prospects ³	343	331	107	108	184	170	52	53	200	198	143	133
Reasons other than discouragement	1,073	979	423	401	524	467	126	111	460	427	613	552
Family responsibilities	139	143	26	37	97	93	16	13	21	23	117	120
In school or training	235	206	188	173	45	32	2	1	113	105	121	102
III health or disability	116	104	17	14	71	69	28	21	52	52	64	52
Other ⁴	583	525	191	177	311	273	81	75	273	247	311	278

Includes some persons who are not asked if they want a job.
 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

36. Multiple jobholders by selected demographic and economic characteristics

(Numbers in thousands)

		Both :	sexes			Ме	en			Wor	nen	
Characteristic	Num	nber	Ra	te ¹	Nun	nber	Ra	te ¹	Nun	nber	Ra	te ¹
	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
AGE									-			
Total, 16 years and over ² 16 to 19 years 20 years and over 20 to 24 years 25 years and over 25 to 54 years 55 years and over 55 to 64 years 65 years and over		7,926 335 7,590 788 6,802 6,011 791 682 109	6.1 5.0 6.2 6.5 6.2 6.4 4.6 5.1 3.1	6.0 4.8 6.1 6.3 6.1 6.3 4.8 5.3 2.9	4,237 144 4,094 385 3,708 3,278 431 356 74	4,178 138 4,040 363 3,677 3,228 449 378 71	6.1 4.2 6.2 5.9 6.2 6.5 4.8 5.3 3.3	5.9 3.9 6.0 5.5 6.1 6.3 4.9 5.4 3.3	3,718 187 3,531 424 3,107 2,798 309 268 40	3,748 198 3,550 425 3,126 2,783 342 303 39	6.2 5.7 6.2 7.3 6.1 6.4 4.4 4.8 2.6	6.2 5.7 6.2 7.2 6.1 6.3 4.6 5.2 2.5
WhiteBlack	6,909 758 494	6,832 802 503	6.3 5.4 3.9	6.2 5.5 3.8	3,693 388 305	3,622 406 299	6.2 5.9 3.9	6.0 5.9 3.7	3,216 370 190	3,210 396 204	6.4 5.0 3.8	6.4 5.2 3.9
Married, spouse present	4,434 1,388 2,133	4,414 1,385 2,127	5.9 6.8 6.3	5.8 6.7 6.1	2,675 495 1,067	2,664 498 1,016	6.3 6.0 5.7	6.2 5.8 5.3	1,758 893 1,067	1,750 887 1,110	5.4 7.4 7.1	5.3 7.3 7.0
Primary job full time, secondary job part time	4,488 1,689 237 1,509	4,478 1,635 266 1,504	- - -	- - -	2,661 521 169 869	2,608 512 188 848	- - -	-	1,827 1,168 68 640	1,870 1,124 78 656		_ _ _ _

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

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

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

Characteristic		of workers usands)	Median wee	ekly earnings
	1997	1998	1997	1998
SEX AND AGE	-			
Total, 16 years and over	93,578	95,595	\$503	\$523
Men. 16 years and over	53,220	54,313	579	598
16 to 24 years	6,174	6,325	317	334
25 years and over	47,046	47,988	615	639
Nomen, 16 years and over	40,358	41,282	431	456
16 to 24 years	4,522	4,721	292	305
25 years and over	35,836	36,561	462	485
RACE, HISPANIC ORIGIN, AND SEX				
White	77,973	79,403	519	545
Men	45,349	46,087	595	615
Women	32,624	33,316	444	468
3lack	11,356	11,776	400	426
Men	5,517	5,751	432	468
Women	5,839	6,025	375	400
Hispanic origin	9,996	10,532	351	370
Men	6,456	6,716	371	390
Women	3,540	3,816	318	337

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

Characteristic		of workers usands)	Median wee	kly earnings
	1997	1998	1997	1998
SEX AND AGE				
Total, 16 years and over	20,710	20,862	\$149	\$156
Men, 16 years and over	6,454	6,501	139	146
16 to 24 years	3,479	3,582	114	119
25 years and over	2,975	2,919	183	197
Nomen, 16 years and over	14,256	14,361	153	161
16 to 24 years	4,373	4,500	112	118
25 years and over	9,883	9,861	179	191
RACE, HISPANIC ORIGIN, AND SEX				
White	17,915	17,886	150	157
Men	5,462	5,470	138	146
Women	12,454	12,416	155	163
Black	1,968	2,096	141	149
Men	669	688	142	145
Women	1,299	1,408	140	151
dispanic origin	1,877	1,828	144	154
Men	692	632	150	162
Women	1,184	1,196	140	150

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

(Numbers in thousands)

		mber Median Number Median Number						
• • • • • • • • • • • • • • • • • • • •	Both	sexes	М	en	Wo	men		
Occupation	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings		Media weeki earnin		
Total, 16 years and over	95,595	\$523	54,313	\$598	41,282	\$456		
anagerial and professional specialty	29,304	759	14,941	905	14,363	65		
executive, administrative, and managerial	14,451	755	7,746	915	6,705	62		
Administrators and officials, public administration	588	823	302	957	286	66		
Administrators, protective services	54	883	42 316	(1)	13 336	70		
Financial managers	652 152	852 823	55	1,017 947	97	74		
Personnel and labor relations managers	136	817	80	965	56	72		
Managers, marketing, advertising, and public relations		960	458	1,128	283	75		
Administrators, education and related fields	637	877	259	1,111	378	73		
Managers, medicine and health	626	716	134	869	492	67		
Managers, food serving and lodging establishments		509	538	591	424	43		
Managers, properties and real estate		585	133	638	168	51		
Management-related occupations	3,818 1,303	660 674	1,580 523	790 821	2,238 780	60		
Accountants and auditors	1,303	658	31	(1)	760	62		
Other financial officers	1	703	295	901	347	59		
Management analysts		841	121	964	95	75		
Personnel, training, and labor relations specialists	431	630	135	755	295	60		
Buyers, wholesale and retail trade, except farm products	162	612	85	647	77	59		
Construction inspectors	63	742	57	760	6	(1		
Inspectors and compliance officers, except construction	220	741	145	756	74	71		
Professional specialty		763	7,195	895	7,658	68		
Engineers, architects, and surveyors	2,043	988	1,828	1,007	215	82		
Architects		872	4 720	893	15	()		
Engineers		992 1,139	1,730 68	1,011	200 6	83		
Aerospace engineers	I	1,023	56	1,041	12	1		
Civil engineers		965	229	1,001	30	1		
Electrical and electronic engineers	l	1,059	554	1,067	51	`93		
Industrial engineers		889	208	912	41	(1		
Mechanical engineers	313	998	296	1,007	18	(1		
Mathematical and computer scientists		938	1,105	986	438	85		
Computer systems analysts and scientists		952	941	996	341	. 89		
Operations and systems researchers and analysts		874	127	937	81	7:		
Natural scientists		828 884	318 84	908	152 45	7:		
Chemists, except biochemists	١	739	56	781	34	[]		
Biological and life scientists	1	755	41	(1)	38	1		
Health diagnosing occupations		1,134	367	1,227	181) `9 ₄		
Physicians		1,156	321	1,255	153	90		
Health assessment and treating occupations	2,102	738	363	791	1,739	7:		
Registered nurses		739	139	774	1,351	73		
Pharmacists	139	1,063	80	1,146	59	90		
Dietitians		582 710	11 104	(¹) 713	47 258	70		
Therapists		618	37	(1)	46	(1)		
Respiratory therapists	4	906	26	1 (1)	61	8,		
Speech therapists		725	5	(1)	71	7		
Physicians' assistants	1	611	30	(1)	24	(1		
Teachers, college and university		907	366	998	211	70		
Teachers, except college and university		671	1,022	746	2,952	6		
Teachers, prekindergarten and kindergarten	1	397	8	(1)	404	3:		
Teachers, elementary school		691	274	749	1,433	6		
Teachers, secondary school	l '	736	490	773	631	69		
Teachers, special education		701 695	58 61	733 725	259 131	68		
Counselors, educational and vocational		656	31	(1)	146	64		
Librarians, archivists, and curators		665	22	1 (1)	136	65		
Social scientists and urban planners	I	758	145	878	141	6		
Economists		900	57	991	42	[[i		
-	143	679	65	740	78	62		

(Numbers in thousands)

			19	98		
0	Both	sexes	М	en	Wor	men
Occupation	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Mediar weekly earning
Social, recreation, and religious workers	1,113	557	542	593	571	531
Social workers	654	579	227	609	427	568
Recreation workers	105	353	31	(1)	74	351
Clergy	275	593	250	603	25	(1)
Lawyers and judges	562	1,218	370	1,348	193	956
Lawyers	527	1,209	346	1,350	181	951
Writers, artists, entertainers, and athletes	1,264	647	677	713	587	591
Technical writers	63	810	27	(¹)	36	(1)
Designers	407 88	635 733	208 53	720 801	199 35	562
Actors and directors		562	52	680	47	1 71
Painters, sculptors, craft artists, and artist printmakers	51	526	36	(1)	15	1 (1)
Photographers Editors and reporters	1	723	120	812	95	616
Public relations specialists	127	707	49	(1)	77	680
r dolic relations specialists			}	` ′		
echnical, sales, and administrative support	27,372	477	10,439	606	16,933	419
Technicians and related support	3,507	599	1,773	701	1,734	511
Health rechnologists and technicians	1,296	502	279	588	1,017	486
Clinical laboratory technologists and technicians	281	566	65	585	216	549
Radiologic technicians	135	631	45	(1)	90	595
Licensed practical nurses		473	14	(1)	276	470
Engineering and related technologists and technicians		638	718	668	170	529
Electrical and electronic technicians		642	354	665	68	551
Drafting occupations		642	162	675	38	[(1)
Surveying and mapping technicians		668	58	682	8	(1)
Science technicians		557	149	623	92	463
Biological technicians		482	27	(1)	59	(1)
Chemical technicians		614	61 627	688	14 455	609
Technicians, except health, engineering, and science		738 1,383	81	870 1,381	455	608
Airplane pilots and navigators	l	843	397	884	157	715
Computer programmers Legal assistants	1	578	58	561	249	581
Sales occupations	9,636	502	5,299	622	4,338	372
Supervisors and proprietors		570	1,860	649	1,345	449
Sales representatives, finance and business services		659	982	772	792	566
Insurance sales		629	195	760	179	534
Real estate sales		663	157	763	196	575
Securities and financial services sales		758	262	930	115	598
Advertising and related sales	150	631	60	760	90	594
Sales occupations, other business services	520	626	308	715	212	516
Sales representatives, commodities, except retail		728	970	765	317	603
Sales workers, retail and personal services		312	1,483	412	1,865	272
Sales workers, motor vehicles and boats		587	256	609	30	(1)
Sales workers, apparel		296 458	37	(¹) 509	116 47	283
Sales workers, furniture and home furnishings	l	410	63	1	47	1 13
Sales workers, radio, television, hi-fi, and appliances		434	169	431 461	42	{1}
Sales workers, hardware and building supplies		390	130	403	15	1 715
Sales workers, other commodities		311	258	388	411	287
Sales counter cierks	l	296	27	(1)	59	266
Cashiers		267	335	`302	1,015	259
Street and door-to-door sales workers	87	404	34	(1)	53	355
Administrative support, including clerical	14,229	438	3,368	518	10,862	418
Supervisors		599	276	679	413	556
General office	384	586	117	698	267	54
Financial records processing		616	15	(1)	72	590
Distribution, scheduling, and adjusting clerks		620	133	640	66	55
Computer equipment operators		511	153	591	192	47
Computer operators	343	513	151	595	192	47
Secretaries, stenographers, and typists		437	59	484	2,658	43
Secretaries		431	35	(1)	2,199	43
Stenographers	1	456	3	1 313	61	45
Typists	419	467	22	$\binom{1}{1}$	397	46

(Numbers in thousands)

			19	98		
Occupation	Both	sexes	М	en	Wor	men
Occupation	Number of workers	Median weekly earnings	Number of workers	Median weekly eamings	Number of workers	Median weekly eamings
Information clerks	1,328	367	142	453	1,186	363
Interviewers	113	399	15	(1)	97	393
Hotel clerks	84	311	20	(1)	64	312
Transportation ticket and reservation agents	215	463	55	563	160	433
Receptionists	664	352	19	(1)	645	351
Records processing, except financial	742	417	150	419	592	416
Order clerks	217	451	57	455	160	450
Personnel clerks, except payroll and timekeeping	65 64	491 358	11 13	[{i}	54 51	487 349
Library clerks	209	368	40	1 (1)	169	367
Records clerks	174	440	27	1 (1)	147	436
Financial records processing	1,485	429	134	466	1,351	426
Bookkeepers, accounting, and auditing clerks	1,078	428	91	455	987	426
Payroll and timekeeping clerks	130	476	13	(1)	117	474
Billing clerks	153	413	22	(1)	131	409
Billing, posting, and calculating machine operators		415	3	(!)	81	409
Duplicating, mail and other office machine operators		346	29	[(;)	36	(1)
Communications equipment operators	144	397	29	[(])	114	368
Telephone operators		399	19	(1)	109	372
Mail and message distributing		603 640	549 168	633 668	309 140	542 617
Postal clerks, except mail carriers		681	230	699	87	613
Mail carriers, postal service	138	372	75	443	63	332
Mail clerks, except postal service	95	392	76	408	19	(1)
Material recording, scheduling, and distributing clerks		446	980	476	738	414
Dispatchers	218	479	113	516	105	403
Production coordinators	249	581	108	724	141	518
Traffic, shipping, and receiving clerks	562	408	398	416	164	385
Stock and inventory clerks	405	432	235	452	169	406
Expediters	192	403	66	477	126	373
Adjusters and investigators		470	411	567	1,161	445
Insurance adjusters, examiners, and investigators	420	522	124	671	297	487 431
Investigators and adjusters, except insurance	881 87	455 459	220 13	522 (1)	661	449
Eligibility clerks, social welfare	183	433	53	494	129	411
Miscellaneous administrative support occupations	2,568	401	457	482	2,111	389
General office clerks		400	104	453	422	392
Bank tellers	291	330	25	(1)	265	329
Data-entry keyers	572	418	106	470	467	409
Statistical clerks	87	409	15	(72	386
Teachers' aides	353	307	27	(1)	326	304
aniles essupations	10 500	327	5,291	389	5,301	296
ervice occupations	10,592 381	223	19	(1)	362	220
Child care workers	136	204	4	1 715	132	208
Cleaners and servants	236	235	11	l (1)	225	227
Protective services	2,140	598	1,817	613	323	481
Supervisors	215	771	198	786	18	(1)
Police and detectives		853	105	864	11	[(;)
Guards	54	506	47	(1)	6	
Firefighting and fire prevention	230 210	732 734	224 205	731 731	6 5	(1)
Firefighting		646	882	662	168	583
Police and detectives, public service	602	723	530	738	72	633
Sheriffs, bailiffs, and other law enforcement officers	164	594	137	595	27	(1)
Correctional institution officers	284	557	215	571	69	`509
Guards	645	369	513	378	132	330
Guards and police, except public service	611	375	495	382	116	347
Service occupations, except private household and protective	8,070	307	3,455	325	4,616	295
Food preparation and service occupations	3,032	288	1,581	303	1,451	271
Supervisors		352	103	427	131	304
Bartenders	178	336	83	379	96	293
	575	300	159	343	416	282

(Numbers in thousands)

			19	98		
2 constant	Both	sexes	м	en	Wo	men
Occupation	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Mediar weekly earning
Cooks, except short order	1,250	289	831	305	419	259
Food counter, fountain, and related occupations	100	242	40	(1)	59	241
Kitchen workers, food preparation	135	274	42	(1)	93	275
Waiters' and waitresses' assistants	233	267	119	268	115	265
Miscellaneous food preparation occupations	327	265	204	263	124	269
Health service occupations		318	218	342	1,500	315
Dental assistants		369	3	(;)	151 189	369 335
Health aides, except nursing		346 311	45 170	(¹) 330	1,160	308
Nursing aides, orderlies, and attendants		319	1,378	358	856	288
Cleaning and building service occupations		401	95	457	62	348
Maids and housemen	453	277	96	305	357	272
Janitors and cleaners		327	1,132	355	435	292
Pest control		358	52	356	2	(¹)
Personal service occupations		311	278	368	809	301
Supervisors	65	503	32	(!)	33	$(^1)$
Hairdressers and cosmetologists		313	31	(י)	259	313
Attendants, amusement and recreation facilities		321	63	382	48	(')
Public transportation attendants		524	16	(1)	60	575
Early childhood teachers' assistants	239	265	8	(')	231	264
ecision production, craft, and repair		572	10,741	587	949	408
Mechanics and repairers		597	3,926	599	155	519
Supervisors		743	232	748	15	(1)
Mechanics and repairers, except supervisors		590	3,694	592	140	516
Vehicle and mobile equipment mechanics and repairers		552	1,482	552 494	12 2	
Automobile mechanics		493 563	652	561	3	1 233
Bus, truck, and stationary engine mechanics		780	136	782	4	1 714
Aircraft engine mechanics Automobile body and related repairers	l	510	134	510	l . ~	l `-'
Heavy equipment mechanics	1	636	159	636	ì -	
Industrial machinery repairers	1	608	520	611	12	(1)
Electrical and electronic equipment repairers		665	682	677	82	`55C
Electronic repairers, communications and industrial equipment		579	148	590	11	(!)
Data processing equipment repairers		641	189	657	36	(!)
Telephone installers and repairers	225	750	194	762	30	(1)
Miscellaneous electrical and electronic equipment repairers		644	77	629	3	[(;)
Heating, air conditioning, and refrigeration mechanics		594	244	594	1	(;)
Miscellaneous mechanics and repairers		584	753	588	32	LSR
Office machine repairers		594 712	57 83	598 714	1	1 13
Millwrights Construction trades		543	3,989	545	64	408
Supervisors	481	708	477	709	4	(1)
Construction trades, except supervisors		520	3,512	522	61	1 403
Brickmasons and stonemasons		573	123	573	2	l (1)
Carpet installers		476	68	476	-	`-'
Carpenters		490	909	491	10	(!)
Drywall installers	136	493	134	496] 3	(!)
Electricians		643	701	642	16	(¦)
Electrical power installers and repairers		789	134	795	1 1	$\Gamma \square$
Painters, construction and maintenance	336	402	321	406	15	1 🔛
Plumbers, pipefitters, steamfitters, and apprentices		593	422 72	595 483	5	1 (,)
Concrete and terrazzo finishers		483 441	171	443	1	1 (1)
Roofers		583	54	583	_ '	$\Gamma \subseteq$
Structural metalworkers	1	633	119	631	1	/11
extractive occupations	1	558	2,707	611	729	39
Supervisors		645	943	686	193	47
Precision metalworking occupations		610	816	621	57	444
Tool and die makers	130	784	129	786	"1	1 (3)
		1		1		1 347
Machinists	508	594	475	601	1 33	1 (')

(Numbers in thousands)

			19	98		
	Both	sexes	М	en	Wo	men
Occupation	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earning:
Precision woodworking occupations	88	475	77	507	11	(1)
Cabinet makers and bench carpenters	60	531	55	552	4	(1)
Precision textile, apparel, and furnishings machine workers	122	387	80	394	42	(1)
Precision workers, assorted materials		402	203	501	285	361
Optical goods workers	65	412	26	(1)	39	(1)
Electrical and electronic equipment assemblers	319	381	101	472	218	357
Precision food production occupations		401	238	422	95	(1)
Butchers and meat cutters	199 97	416 352	164 60	456 375	35 37	[{i}
Bakers	139	623	103	676	37	1 (1)
Precision inspectors, testers, and related workers	134	630	98	680	36	1 (1)
Plant and system operators		694	248	703	8	111
Water and sewage treatment plant operators	57	586	54	600	4	1 715
Stationary engineers	125	714	123	718	2	(1)
Operators, fabricators, and laborers	15,082	415	11,564	456	3,518	327
Machine operators, assemblers, and inspectors	6,987	406	4,482	472	2,505	328
Machine operators and tenders, except precision	4,452	399	2,866	461	1,586	320
Metalworking and plastic working machine operators		475	323	496	66	387
Punching and stamping press machine operators	108	406	77	440	32	(1)
Grinding, abrading, buffing, and polishing machine operators		441	108	453	12	(1)
Metal and plastic processing machine operators		446	127	468	33	(1)
Molding and casting machine operators	102	430	77	448	25	(1)
Woodworking machine operators		379	106	394	21	(1)
Sawing machine operators		366	70	375	11	(1)
Printing machine operators		495	273	533	83	384
Printing press operators		490 293	233 215	514 318	46 569	(¹) 285
Textile, apparel, and furnishings machine operators	435	280	74	300	361	278
Textile sewing machine operators Pressing machine operators		276	17	(1)	47	(1)
Laundering and dry cleaning machine operators	1	287	61	301	76	270
Machine operators, assorted materials	2,616	416	1.809	465	807	347
Packaging and filling machine operators		327	155	358	208	316
Mixing and blending machine operators		455	112	459	7	(1)
Painting and paint spraying machine operators		413	166	422	24	(1)
Fumace, kiln, and oven operators, exc. food		554	75	558	2	(1)
Slicing and cutting machine operators	164	389	121	445	43	(1)
Photographic process machine operators		321	33	(1)	43	(1)
Fabricators, assemblers, and hand working occupations		421	1,256	482	589	347
Welders and cutters		518	519	527	30	(1)
Assemblers	1,199	392	683	445	516	347
Production inspectors, testers, samplers, and weighers		412 448	360 254	517 544	330 233	336 358
Production inspectors, checkers, and examiners	1 1 1	306	65	351	85	289
Transportation and material moving occupations	4,322	510	3,977	519	345	373
Motor vehicle operators	3,144	503	2,870	514	273	362
Supervisors	79	595	61	625	18	(1)
Truck drivers	2,458	516	2,345	520	114	371
Driverssales workers	143	526	129	554	14	(¹)
Bus drivers		428	160	476	112	352
Taxicab drivers and chauffeurs		379	150	386	12	$\begin{bmatrix} & 1 \\ 1 \end{bmatrix}$
Transportation occupations, except motor vehicles		834	141	862	10	
Rail transportation	101	849	93	888	8	(1)
Material moving equipment operators		505	966	510	62	397
Operating engineers		570	217	568	6	1 SR
Crane and tower operators		576	61	572	4	I (,)
Excavating and loading machine operators	_	557 572	79 58	558 578	2	/11
Grader, dozer, and scraper operators	501	452	463	455	39	1 71
Industrial truck and tractor equipment operators	ייטכּ ן	452	463	455	ا عق	1 ()

(Numbers in thousands)

			19	98		
9	Both	sexes	М	en	Wo	men
Occupation	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Handlers, equipment cleaners, helpers, and laborers Helpers, construction and extractive occupations Helpers, construction trades Construction laborers Freight, stock, and material handlers Stock handlers and baggers Machine feeders and offbearers Garage and service station related occupations Vehicle washers and equipment cleaners Hand packers and packagers Laborers, except construction	3,773 112 108 729 1,192 563 66 127 213 255 1,055	351 341 335 390 339 300 363 293 317 304 373	3,105 110 106 706 956 406 46 118 190 92 853	362 340 334 393 350 304 (1) 297 322 307 384	669 1 1 23 236 157 20 9 23 164 202	311 (1) (1) (1) (1) 312 291 (1) (1) (1) (301 331
Farming, forestry, and fishing Farm operators and managers Farm managers Other agricultural and related occupations Farm occupations, except managerial Farm workers Related agricultural occupations Supervisors, related agricultural Groundskeepers and gardeners, except farm Animal caretakers, except farm Graders and sorters, agricultural products	1,555 69 63 1,425 650 602 775 63 598 51 61	302 424 459 298 285 281 308 469 306 300 259	1,337 59 53 1,221 563 525 658 59 569 13	307 475 486 303 288 285 314 479 306 (1) (1)	218 10 9 204 88 77 117 4 29 38 45	272 (1) (1) (1) 270 264 262 274 (1) (1) (1) (1)

Data not shown where base is less than 50,000.
NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

			1997					1998		
			pers of ons ¹		sented nions ²			pers of ons ¹		sented nions ²
Characteristic	Total em- ployed	Total	Percent of em- ployed	Totai	Percent of em- ployed	Total em- ployed	Total	Percent of em- ployed	Total	Percent of em- ployed
SEX AND AGE		:								
Total, 16 years and over		16,110	14.1	17,923	15.6	116,730	16,211	13.9	17,918	15.4
16 to 24 years		968	5.2	1,140	6.1	19,164	1,014	5.3	1,151	6.0
25 years and over		15,142	15.8	16,783	17.5	97,566	15,198	15.6	16,767	17.2
25 to 34 years		3,434	11.7	3,870	13.2	29,121	3,332	11.4	3,711	12.7
35 to 44 years		4,987	15.9	5,571	17.7	31,865	5,013	15.7	5,511	17.3
45 to 54 years		4,645	20.5	5,092	22.4	23,579	4,737	20.1	5,220	22.1
55 to 64 years		1,894	19.2	2,045	20.7	10,427	1,923	18.4	2,110	20.2
65 years and over	2,509	182	7.3	205	8.2	2,574	193	7.5	214	8.3
Men, 16 years and over	59,825	9,763	16.3	10,619	17.7	60,973	9,850	16.2	10,638	17.4
16 to 24 years	9,666	612	6.3	691	7.1	9,927	637	6.4	719	7.2
25 years and over		9,150	18.2	9,928	19.8	51,046	9,213	18.0	9,919	19.4
25 to 34 years	15,832	2,132	13.5	2,359	14.9	15,656	2,112	13.5	2,301	14.7
35 to 44 years	16,430	3,068	18.7	3,346	20.4	16,768	3,055	18.2	3,264	19.5
45 to 54 years	11,471	2,718	23.7	2,908	25.4	11,874	2,771	23.3	2,982	25.1
55 to 64 years	5,101	1,130	22.1	1,198	23.5	5,404	1,177	21.8	1,265	23.4
65 years and over	1,324	103	7.8	118	8.9	1,343	98	7.3	108	8.0
Women, 16 years and over	54,708	6.347	11.6	7,304	13.4	55.757	6,362	11.4	7,280	13.1
16 to 24 years		355	4.0	449	5.0	9,237	377	4.1	432	4.7
25 years and over	1 '	5,992	13.1	6.855	15.0	46,520	5.985	12.9	6,848	14.7
25 to 34 years		1,302	9.6	1,512	11.1	13,464	1,219	9.1	1,410	10.5
35 to 44 years		1,919	12.8	2,225	14.8	15.097	1,958	13.0	2,248	14.9
45 to 54 years	1 '	1,927	17.1	2,184	19.4	11,705	1,967	16.8	2,238	19.1
55 to 64 years		764	16.0	847	17.8	5.023	746	14.9	845	16.8
65 years and over		80	6.7	87	7.3	1,231	95	7.7	106	8.6
RACE, HISPANIC ORIGIN, AND SEX							<u> </u>			}
White, 16 years and over	96,104	13,088	1 13.6	14,538	15.1	97,531	13,118	13.5	14,460	14.8
Men	1 .	8,171	16.0	8,859	17.4	51,700	8,166	15.8	8,788	17.0
Women		4,917	10.9	5,679	12.6	45,831	4,952	10.8	5,673	12.4
Black, 16 years and over	13,346	2.394	17.9	2.688	20.1	13.894	2,460	17.7	2,739	19.7
Men		1,251	20.2	1,378	22.2	6,452	1,337	20.7	1,458	22.6
Women		1,143	16.0	1,309	18.3	7,443	1,123	15.1	1,282	17.2
Hispanic origin, 16 years and over	11,881	1,407	11.8	1,602	13.5	12,374	1,471	11.9	1,634	13.2
Men	1 '	904	12.6	1,002	14.3	7,360	937	12.7	1,017	13.8
Women		503	10.6	579	12.2	5,015	534	10.6	617	12.3
FULL- OR PART-TIME STATUS ³										
Full-time workers	93,578	14,619	15.6	16,227	17.3	95,595	14,825	15.5	16,323	17.1
Part-time workers		1,449	7.0	1.653	8.0	20.862	1,354	6.5	1,559	7.5
		.,		.,555			.,007		.,000	

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

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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.

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.

HOUSEHOLD DATA ANNUAL AVERAGES

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

		19	97			19	98	
Characteristic	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								
Fotal, 16 years and over	\$503	\$640	\$632	\$478	\$523	\$659	\$653	\$499
16 to 24 years	306	385	384	302	319	415	410	315
25 years and over	540	655	648	511	572	673	667	537
25 to 34 years	481	579	572	466	502	595	591	489
35 to 44 years	579	675	666	548	597	683	678	576
45 to 54 years	607	704	697	578	620	716	712	592
55 to 64 years	558	661	657	512	592	697	692	560
65 years and over	393	614	609	374	405	610	597	383
Men, 16 years and over	579	683	679	539	598	699	696	573
16 to 24 years	317	402	404	313	334	430	424	326
25 years and over	615	697	693	595	639	712	709	617
25 to 34 years	515	607	603	503	544	618	615	524
35 to 44 years	651	712	708	630	677	722	719	660
45 to 54 years	713	744	741	698	732	755	755	719
55 to 64 years	669	702	701	649	699	738	737	674
65 years and over	452	677	672	415	482	657	659	445
Nomen, 16 years and over	431	577	568	411	456	596	593	430
16 to 24 years	292	353	351	289	305	389	382	301
25 years and over	462	587	581	437	485	605	602	463
25 to 34 years	427	521	514	416	451	542	542	439
35 to 44 years	482	592	585	461	498	605	605	479
45 to 54 years	495	627	620	465	516	651	645	488
55 to 64 years	433	582	575	408	476	602	596	448
65 years and over	348	(3)	586	324	350	548	522	329
RACE, HISPANIC ORIGIN, AND SEX								
White, 16 years and over	519	\$663	654	494	545	683	678	513
Men	595	699	695	569	615	719	716	591
Women	444	595	587	421	468	610	607	443
Black, 16 years and over	400	533	523	371	426	578	572	398
Men	432	577	573	396	468	597	592	424
Women	375	504	496	349	400	537	533	376
Hispanic origin, 16 years and over	351	506	501	331	370	540	541	350
Men	371	538	526	348	390	585	584	367
Women	318	440	430	309	337	478	481	322

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

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 1998, data reflect new composite estimation procedures and revised population population controls used in the household survey.

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

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

(Numbers in thousands)

			1997			1998					
	T-4-1		pers of ons ¹		sented nions ²	Total		pers of ons ¹		sented nions ²	
Occupation and industry	Total em- ployed	Total	Percent of em- ployed	Total	Percent of em- ployed	em- ployed	Total	Percent of em- ployed	Total	Percent of em- ployed	
OCCUPATION				1							
Managerial and professional specialty	31,946	4,208	13.2	4,951	15.5	33,102	4,252	12.8	5,015	15.2	
Executive, administrative, and managerial		763	5.1	959	6.4	15,473	812	5.2	1,017	6.6	
Professional specialty		3,445	20.2	3,992	23.4	17,629	3,440	19.5	3,998	22.7	
Fechnical, sales, and administrative support	34,796	3,158	9.1	3,648	10.5	35,379	3,239	9.2	3,677	10.4	
Technicians and related support		427	10.4	501	12.2	4,150	433	10.4	498	12.0	
Sales occupations	13,055	559	4.3	659	5.0	13,378	544	4.1	620	4,6	
Administrative support, including clerical	17,631	2,172	12.3	2,488	14.1	17,851	2,262	12.7	2,558	14.3	
Service occupations	16.204	2.141	13.2	2,356	14.5	16,594	2,209	13.3	2,398	14.5	
Protective service	2,248	897	39.9	965	42.9	2,399	991	41.3	1,048	43.7	
Service, except protective service		1,244	8.9	1,391	10.0	14,195	1,218	8.6	1,350	9.5	
Precision production, craft, and repair	12,069	2,723	22.6	2,864	23.7	12,274	2,708	22.1	2,834	23.1	
Operators, fabricators, and laborers	17,629	3,791	21.5	4,008	22.7	17,443	3,713	21.3	3,894	22.3	
Machine operators, assemblers, and inspectors		1,690	21.9	1,764	22.9	7,498	1,603	21.4	1,672	22.3	
Transportation and material moving occupations		1,199	24.3	1,279	25.9	4,935	1,204	24.4	1,267	25.7	
Handlers, equipment cleaners, helpers, and laborers	4,981	901	18.1	964	19.4	5,010	906	18.1	956	19.1	
Farming, forestry, and fishing	1,890	88	4.6	97	5.1	1,938	90	4.6	100	5.2	
INDUSTRY											
Private wage and salary workers	96,386	9.363	9.7	10,255	10.6	98.329	9,306	9.5	10.104	10.3	
Agriculture ³		36	2.2	40	2.4	1,739	26	1.5	31	1.8	
Nonagricultural industries	94,705	9,327	9.8	10,215	10.8	96,590	9,280	9.6	10,073	10.4	
Mining		84	13.9	87	14.3	589	72	12.2	79	13.4	
Construction	5,739	1,067	18.6	1,118	19.5	5,946	1,056	17.8	1,093	18.4	
Manufacturing	19,961	3,253	16.3	3,441	17.2	19,763	3,127	15.8	3,315	16.8	
Durable goods		2,090	17.5	2,198	18.5	11,999	1,990	16.6	2,097	17.5	
Nondurable goods	8,053	1,164	14.5	1,243	15.4	7,763	1,138	14.7	1,218	15.7	
Transportation and public utilities	6,949	1,804	26.0	1,909	27.5	7,147	1,843	25.8	1,931	27.0	
Transportation	4,212	1,118	26.5	1,177	27.9	4,316	1,108	25.7	1,156	26.8	
Communications and public utilities	2,737	686	25.1	731	26.7	2,831	735	26.0	775	27.4	
Wholesale and retail trade	23,676	1,315	5.6	1,469	6.2	24,230	1,283	5.3	1,387	5.7	
Wholesale trade	4,296	251	5.8	284	6.6	4,425	259	5.9	275	6.2	
Retail trade	19,379	1,065	5.5	1,186	6.1	19,805	1,024	5.2	1,113	5.6	
Finance, insurance, and real estate		155 1,647	2.2 5.4	199 1,993	2.8 6.5	7,420 31,493	150 1,750	2.0 5.6	195 2,073	2.6 6.6	
Government workers	18.147	6.747	37.2	7.668	42.3	18.401	6.905	37.5	7.815	42.5	
Federal		1,030	32.0	1,266	39.4	3,269	1,105	33.8	1,299	39.7	
State	1 '	1,485	29.5	1,679	33.4	5,150	1,431	27.8	1,667	32.4	
Local	9.899	4,232	42.7	4,723	47.7	9.982	4,370	43.8	4,849	48.6	

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

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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 for 1997 have been corrected.

HOUSEHOLD DATA ANNUAL AVERAGES

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

		19	97			19	98	
Occupation and industry	Total	Members of unions ¹	Repre- sented by unions ²	Non- union	Tota!	Members of unions ¹	Repre- sented by unions ²	Non- union
OCCUPATION								
Managerial and professional specialty	\$738	\$776	\$766	\$731	\$759	\$789	\$774	\$756
Executive, administrative, and managerial	725 750	757 782	752 769	721 742	755 763	801 787	789 772	753 759
Fechnical, sales, and administrative support Technicians and related support	456 582	550 677	541 675	441 566	477 599	575 708	569 688	463 590
Sales occupations	382 482	467	469	483	502	708 496	492	590 502
Administrative support, including clerical	419	545	534	404	438	563	558	418
Service occupations	313	516	505	293	327	557	542	305
Protective service	550 293	724 398	713 393	418 283	598 305	736 403	732 402	450 295
Precision production, craft, and repair	548	724	718	501	572	753	747	514
Operators, fabricators, and laborers	401	572	561	365	415	585	580	381
Machine operators, assemblers, and inspectors	390	533	524	356	406	559	556	375
Transportation and material moving occupations Handlers, equipment cleaners, helpers, and	498	658	642	451	510	655	644	468
aborers	329	509	506	310	351	514	514	326
arming, forestry, and fishing	295	505	475	290	302	471	462	299
INDUSTRY								
rivate wage and salary workers	486	609	602	471	505	625	619	493
Agriculture ³ Nonagricultural industries	306 490	(⁴) \$610	(⁴)	305 476	315 509	(⁴)	(⁴)	314 496
Mining	680	717	\$603 717	476 668	684	\$626 733	\$620 723	496 673
Construction	518	771	760	484	534	790	783	496
Manufacturing	517	595	592	503	551	606	603	532
Durable goods	548	619	616	523	581	629	625	566
Nondurable goods	484	536	529	470	507	565	562	495
Transportation and public utilities	617	718	714	580	624	731	724	586
Transportation Communications and public utilities	573 709	702 746	697 743	513 690	570 727	704 763	695 760	519 699
Wholesale and retail trade	391	457	451	387	410	480	476	405
Wholesale trade	525	545	536	524	562	611	604	557
Retail trade	352	419	415	347	373	442	439	369
Finance, insurance, and real estate	546 475	487 517	501 512	548 470	577 498	545 540	554 548	578 494
Government workers	605	681	671	530	620	694	688	558
Federal	684	689	687	678	694	690	693	696
State	584 592	628 697	621 682	540 479	596 612	646 712	638 702	563 501
LUGGI	33 <u>2</u>	1 63, 1	002	7/3	1 012	''*	, 02	501

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

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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 for 1997 have been corrected.

⁴ Data not shown where base is less than 50,000.

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

(Numbers in thousands)

		1998									
Age and sex	-	,	Absence rate	1	Lost worktime rate ²						
	Total employed	Total	Illness or injury	Other reasons	Total	Illness or injury	Other reasons				
Total, 16 years and over	95.579	3.7	2.7	1.1	2.0	1.4	0.6				
16 to 19 years	1 ' 1	4.0	3.1	.9	1.9	1.4	.5				
20 to 24 years		3.9	2.5	1.4	2.0	1.1	.8				
25 years and over		3.7	2.7	1.0	2.0	1.5	.6				
25 to 54 years		3.7	2.6	1.1	2.0	1.4	.6				
55 years and over	9,815	4.2	3.4	.8	2.5	2.1	.4				
Men, 16 years and over	54,300	2.7	2.1	.6	1.5	1.2	.3				
6 to 19 years		3.3	2.8	.5	1.6	1.4	.2				
20 to 24 years		2.6	2.0	.6	1.2	1.0	.3				
25 years and over	47,939	2.7	2.1	.6	1.5	1.2	.3				
25 to 54 years		2.6	2.0	.6	1.4	1.1	.3				
55 years and over	5,581	3.6	2.9	.6	2.2	1.9	.3				
Women. 16 years and over	41,279	5.1	3.4	1.7	2.8	1.8	1.0				
6 to 19 years		5.0	3.4	1.6	2.4	1.4	.9				
0 to 24 years		5.6	3.2	2.4	2.9	1.4	1.6				
5 years and over		5.1	3.5	1.6	2.8	1.8	1.0				
25 to 54 years	32,357	5.1	3.4	1.7	2.8	1.7	1.0				
55 years and over		5.0	4.0	1.0	2.8	2.3	.5				

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.

Hours absent as a percent of hours usually worked.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA ANNUAL AVERAGES

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

(Numbers in thousands)

				1998			
Occupation and industry	T.A.		Absence rate	1	Los	st worktime ra	_{ite} 2
	Total employed	Total	Illness or injury	Other reasons	Total	Illness or injury	Other reasons
OCCUPATION	[]						
Managerial and professional specialty	29,399	3.1	2.0	1.1	1.7	1.0	0.7
Executive, administrative, and managerial	14,540	2.8	1.8	.9	1.4	.9	.6
Professional specialty	14,859	3.5	2.2	1.2	1.9	1.1	.8
echnical, sales, and administrative support	27,105	4.1	2.9	1.2	2.1	1.4	.7
Technicians and related support		4.1	2.9	1.2	2.2	1.4	.8
Sales occupations	9,495	3.1	2.2	.9	1.6	1.1	.5
Administrative support, including clerical	14,118	4.7	3.3	1.4	2.4	1.6	.8
Service occupations	10,530	4.5	3.2	1.2	2.5	1.8	.6
recision production, craft, and repair	11,724	3.3	2.6	.8	1.9	1.5	.3
perators, fabricators, and laborers	15,208	4.3	3.4	.9	2.5	2.1	.4
arming, forestry, and fishing	1,613	2.4	1.9	.6	1.3	1.0	.3
INDUSTRY							
Agricultural wage and salary workers		2.0	1.5	.5	1.1	.8	.3
rivate nonagricultural wage and salary workers		3.6	2.6	1.0	2.0	1.4	.6
Mining		2.2	1.7	.5	1.3	1.0	.3
Construction	5,443	3.2	2.4	.9	1.8	1.4	.4
Manufacturing		3.8	2.8	.9	2.1	1.6	.5
Durable goods		3.6	2.8	.8	2.1	1.6	.4
Nondurable goods	7,319	3.9	2.9	1.0	2.2	1.7	.5
Transportation and public utilities		3.4	2.6	.8	2.1	1.6	.5
Transportation	3,713	3.5	2.8	.8	2.3	1.8	.5
Communications and other public utilities	2,677	3.2	2.3	.9	1.9	1.4	.5
Wholesale and retail trade		3.4	2.4	.9	1.8	1.3	.5
Wholesale trade		2.7	2.0	.6	1.4	1.0	.4
Retail trade	12,648	3.6	2.6	1.0	1.9	1.4	.5
Finance, insurance, and real estate		3.4	2.3	1.2	1.7	1.0	.7
Services	23,885	3.9	2.7	1.2	2.1	1.3	.7
Government workers	15,642	4.5	3.3	1.2	2.4	1.6	.7

¹ Absences are defined as instances when persons who usually work 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

passed on the full CFS sample and those in the other lables are based on a quarter of the sample only.

Hours absent as a percent of hours usually worked.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

		lian itutional lation	Civilian lal			abor force				
Veteran status and age	Total Er		Employed			Unem	oloyed			
	1997	1997 1998	1997	1998	1997	1998	Num	nber	Perce labor	
							1997	1998	1997	1998
VIETNAM-ERA VETERANS										
Total, 40 years and over	7,790 6,284 1,002 2,683 2,599 1,506	7,773 5,950 741 2,237 2,972 1,822	6,644 5,676 901 2,436 2,338 969	6,526 5,313 662 2,011 2,641 1,213	6,439 5,496 864 2,366 2,266 943	6,348 5,163 637 1,955 2,571 1,184	206 180 37 71 72 26	179 150 24 56 70 29	3.1 3.2 4.1 2.9 3.1 2.7	2.7 2.8 3.7 2.8 2.6 2.4
NONVETERANS			'							
Fotal, 40 to 54 years	19,440 8,972 6,212 4,256	20,304 9,218 6,796 4,290	17,621 8,285 5,639 3,696	18,403 8,512 6,190 3,701	17,044 8,007 5,460 3,576	17,879 8,269 6,020 3,590	577 278 179 120	523 242 170 111	3.3 3.4 3.2 3.2	2.8 2.8 2.7 3.0

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. Beginning in January 1998, data

reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA ANNUAL AVERAGES

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

(Numbers in thousands)

			Vete	rans					Nonve	terans		
Employment status and age	Wr	nite	Bla	ick	Hispani	c o rigi n	Wh	ite	Bla	ick	Hispan	ic origin
	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
Total, 40 to 54 years							: !					t.
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	5,603 5,102 4,951 151 3.0	5,272 4,741 4,614 127 2.7	560 469 444 25 5.3	552 463 444 20 4.2	262 229 218 11 4.8	251 219 215 4 1.9	16,403 15,081 14,648 433 2.9	17,134 15,748 15,346 403 2.6	2,050 1,653 1,547 106 6.4	2,136 1,719 1,628 91 5.3	1,969 1,772 1,684 88 4.9	2,085 1,850 1,763 87 4.7
40 to 44 years												
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	851 770 739 31 4.1	604 540 524 17 3.1	121 102 97 5 4.9	113 101 96 5 5.0	66 56 52 4 6.9	48 42 41 1 2.7	7,585 7,099 6,891 208 2.9	7,796 7,296 7,114 182 2.5	941 779 724 55 7.1	962 796 747 48 6.1	922 852 811 41 4.8	970 884 843 42 4.7
45 to 49 years							•					
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	2,375 2,178 2,120 58 2.6	1,951 1,767 1,722 45 2.5	264 222 210 11 5.1	237 201 190 11 5.4	97 84 81 3 3.0	87 74 72 1 1.9	5,251 4,826 4,689 137 2.8	5,749 5,301 5,166 135 2.5	664 545 515 29 5.4	718 590 563 27 4.5	600 525 500 25 4.7	674 596 571 24 4.1
50 to 54 years												
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate	2,378 2,154 2,092 62 2.9	2,718 2,433 2,368 65 2.7	175 145 137 9 5.9	201 162 158 4 2.4	99 90 85 5 5.2	116 103 102 2 1.6	3,567 3,156 3,068 88 2.8	3,589 3,152 3,066 86 2.7	445 328 307 21 6.5	456 333 317 16 4.8	447 395 373 22 5.5	441 370 349 20 5.5

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(In thousands)

Industry	1995	1996	1997	1998P
Total	117,191	119,608	122,690	125,833
Total private	97,885	100,189	103,120	105,972
Goods-producing	24,265	24,493	24,934	25,256
Mining	581	580	592	575
Metal mining	51.3	53.8	53.7	50.7
Coal mining	104.4	97.7	95.8	91.0
Oil and gas extraction	320.1	322.0	334.6	326.0
Nonmetallic minerals, except fuels	105.3	106.2	107.5	107.7
Construction	5,160	5,418	5,686	5,965
General building contractors	1,207.0	1,257.2	1,316.3	1,398.7
Heavy construction, except building	752.2	776.8	795.2	823.9
Special trade contractors	3,201.1	3,383.6	3,574.7	3,742.8
Manufacturing	18,524	18,495	18,657	18,716
Durable goods	10,683	10,789	10,987	11,098
Lumber and wood products	769.2	778.4	793.1	803.4
Furniture and fixtures	509.7	504.3	510.1	523.5
Stone, clay, and glass products	539.6	543.8	552.3	562.8
Primary metal industries	712.0	710.5	710.7	711.3
Blast furnaces and basic steel products	241.6	240.2	235.4	232.8
Fabricated metal products	1,437.0	1,448.7	1,474.9	1,488.9
Industrial machinery and equipment	2,067,1	2,114.6	2,163.4	2,188.4
Computer and office equipment	352.2	361.8	374.6	374.8
Electronic and other electrical equipment	1,625.0	1,660.6	1,687.7	1,700.2
Electronic components and accessories	580.8	616.6	652.3	667.0
Transportation equipment	1,790.2	1,784.9	1,841.8	1,873.7
Motor vehicles and equipment	970.9	966.8	985.1	988.2
Aircraft and parts	450.5	458.1	500.3	522.8
Instruments and related products	843.4	855.4	863.3	859.3
Miscellaneous manufacturing	389.7	387.8	389.3	385.9
Nondurable goods	7.841	7,706	7,670	7,618
Food and kindred products	1,691.9	1,691.9	1,691.0	1,704.6
Tobacco products	42.1	41.4	41.2	40.2
Textile mill products	663.2	626.5	615.5	596.1
Apparel and other textile products	935.8	867.7	825.6	770.3
Paper and allied products	692.8	683.6	685.1	681.5
Printing and publishing	1,545.9	1,540.3	1,552.6	1,566.2
Chemicals and allied products	1,038.1	1,033.8	1,033.8	1,035.8
Petroleum and coal products	145.2	142.1	139.7	135.5
Rubber and misc. plastics products	979.9	982.7	995.1	1,005.9
Leather and leather products	105.6	95.7	90.2	82.0
Service-producing	92,925	95,115	97,756	100,577
Transportation and public utilities	6,132	6,253	6,395	6,551
Transportation	3,904	4,019	4,106	4,209
Railroad transportation	238.4	230.9	226.9	232.4
Local and interurban passenger transit	419.2	436.9	450.6	462.3
Trucking and warehousing	1,587.1	1,636.8	1,667.2	1,707.0
Water transportation	174.5	174.1	180.4	186.6
Transportation by air	1,068.3	1,107.4	1,127.9	1,158.1
Pipelines, except natural gas	15.1	14.5	14.3	14.2
Transportation services	401.2	418.2	438.6	448.6
Communications and public utilities	2,229	2,234	2,290	2,341
Communications	1,317.6	1,350.6	1,423.5	1,486.3
Electric, gas, and sanitary services	910.9	883.7	865.9	855.2
Wholesale trade	6,378	6,482	6,648	6,825
Durable goods	3,715	3,805	3,935	4,069
	2,663	2,677	2,713	2,756

ESTABLISHMENT DATA EMPLOYMENT ANNUAL AVERAGES

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

(In thousands)

Industry	1995	1996	1997	1998P
Dela II According	24 407	21 507	22.014	22,474
Retail trade	21,187	21,597	22,011	
Building materials and garden supplies	867.5	893.7	936.7	975.7
General merchandise stores	2,680.5	2,701.8	2,717.9	2,792.0
Department stores	2,345.6	2,367.4	2,388.7	2,461.4
Food stores	3.366.0	3,435.5	3,495.7	3,544.8
Automotive dealers and service stations	2,189.6	2,266.7	2,313.9	2,351.2
	996.0	1,030.5	1,050.8	1,062.8
New and used car dealers		1,098.4	1,097.7	1,104.6
Apparel and accessory stores	1,125.4	1 '		
Furniture and home furnishings stores	945.5	975.2	1,009.0	1,062.0
Eating and drinking places	7,354.2	7,516.6	7,635.8	7,744.2
Miscellaneous retail establishments	2,658.3	2,708.5	2,804.1	2,898.9
Finance, insurance, and real estate	6,806	6,911	7,091	7,341
Finance	3,231	3,303	3,413	3,553
	2,025.1	2.018.6	2,027.0	2.041.4
Depository institutions	•	1,458.3	1,460.1	1,459.7
Commercial banks	1,465.5		· .	
Savings institutions	275.8	265.8	261.5	263.6
Nondepository institutions	462.9	522.0	567.2	620.3
Mortgage bankers and brokers	204.9	233.0	252.5	288.8
Security and commodity brokers	525.4	553.0	596.8	648.6
Holding and other investment offices	217.2	209.9	221.8	242.9
Insurance	2,225	2,226	2,260	2,329
		1,517.1	1.535.4	1.585.6
Insurance carriers	1,528.8		,	
Insurance agents, brokers, and service	695.5	708.6	724.4	743.0
Real estate	1,351	1,382	1,419	1,459
Services 1	33,117	34,454	36,040	37,525
Agricultrual services	581.8	627.2	679.1	713.5
Hotels and other lodging places	1,668.1	1,715.0	1.744.2	1,771.9
	1,162.9	1,180.2	1,181.9	1,181.2
Personal services		7,293.0	7,982.7	8,546.9
Business services	6,812.4			
Services to buildings	882.2	906.8	937.4	976.3
Personnel supply services	2,475.5	2,653.5	2,968.4	3,162.1
Help supply services	2,188.8	2,352.4	2,645.7	2,824.7
Computer and data processing services	1,089.9	1,227.7	1,410.6	1,602.9
Auto repair, services, and parking	1,020.1	1,080.0	1,124.3	1,159.0
Miscellaneous repair services	359.1	371.8	375.9	386.4
	487.6	524.7	548.1	564.5
Motion pictures			1,572.9	1.687.7
Amusement and recreation services	1,417.4	1,476.1	,	
Health services	9,230.4	9,477.9	9,719.5	9,903.8
Offices and clinics of medical doctors	1,608.9	1,678.3	1,742.9	1,817.3
Nursing and personal care facilities	1,691.4	1,730.4	1,754.5	1,757.3
Hospitals	3,772,1	3,811,5	3,868.7	3,952.6
Home health care services	628.7	674.6	712.5	680.1
Legal services	921.4	927.5	947.3	981.4
			2.114.2	2.206.8
Educational services	1,965.2	2,029.9	_,	
Social services	2,335.6	2,412.6	2,513.8	2,628.0
Child day care services	562.6	564.7	569.5	580.7
Residential care	642.6	676.8	716.8	751.3
Museums and botanical and zoological gardens	80.4	85.4	89.9	92.0
Membership organizations	2,145.9	2,201.4	2,248.2	2,270.6
Engineering and management services	2.731.1	2,844.3	3,004.8	3,235.5
Engineering and architectural services	814.8	836.2	869.1	917.8
	805.2	869.5	943.7	1,045.3
Management and public relations	44.6	47.1	943.7 49.6	52.4
Sovernment	19,305	19,419	19,570	19,862
Federal	2,822	2,757	2,699	2,684
Federal, except Postal Service	1,978.3	1,900.9	1,841.5	1,818.5
State	4,635	4,606	4,594	4,649
Education	1,919.0	1,910.7	1,911.7	1,940.6
	2,715.4	2,695.0	2,682.2	2,708,5
Other State government	•			
Local	11,849	12,056	12,276	12,529
		. 07404	. 60420	. 7 A74 A
Education	6,605.6	6,748.1	6,913.0	7,071.0

¹ includes other industries, not shown separately.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from

March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision.

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

industry	1995	1996	1997	1998P
<u> </u>				
Total private	80,125	82,092	84,529	86,713
Goods-producing	17,243	17,405	17,751	17,949
Mining	424	430	446	436
Construction	3,993	4,199	4,409	4,617
Manufacturing	12,826	12,776	12,896	12,896
Durable goods	7,317	7,386	7,539	7,597
Lumber and wood products	632.1	639.6	652.8	660.6
Furniture and fixtures	403.1	398.4	405.1	417.0
Stone, clay, and glass products	417.9	423.1	430.9	440.0
Primary metal industries		553.4	555.5	557.2
Blast furnaces and basic steel products		184.5	181.3	180.0
Fabricated metal products	1,079.8	1,088.3	1,111.8	1,122.1
Industrial machinery and equipment		1,320.9	1,361.7	1,382.5
Electronic and other electrical equipment	1,044.9	1,056.0	1,067.9	1,066.3
Transportation equipment	1,200.3	1,209.6	1,254.0	1,252.1
Motor vehicles and equipment	761.4	763.6	778.8	758.8
Instruments and related products	416.5	423.1	426.3	430.0
Miscellaneous manfacturing	275.5	273.3	273.1	269.4
Nondurable goods	5,508	5,390	5,357	5,299
Food and kindred products	1,247.5	1,253.7	1,255.8	1,266.3
Tobacco products	32.0	32.0	31.8	31.2
Textile mill products	560.2	529.4	521.7	504.8
Apparel and other textile products	776.1	711.2	674.1	619.7
Paper and allied products	525.4	519.0	522.3	519.1
Printing and publishing	847.6	841.3	847.0	844.5
Chemicals and allied products	580.2	575.4	571.6	582.0
Petroleum and coal products	93.8	92.0	92.1	89.3
Rubber and misc. plastics products	762.7	762.0	771.6	779.9
Leather and leather products	82.7	73.9	68.6	61.6
Service-producing	62,882	64,687	66,778	68,763
Transportation and public utilities	5,140	5,260	5,355	5,427
Wholesale trade	5,163	5,238	5,3 5 5	5,470
Retail trade	18,639	19,002	19,375	19,737
Finance, insurance, and real estate	4,961	5,043	5,180	5,390
Services	28,979	30,144	31,513	32,740

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 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to

ESTABLISHMENT DATA HOURS AND EARNINGS **ANNUAL AVERAGES**

50. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group

	A۱	rerage w	ekly hou	Jrs	Av	rerage hou	urly earning	gs	Av	erage wee	ekly earnin	ngs
Industry	1995	1996	1997	1998P	1995	1996	1997	1998P	1995	1996	1997	1998P
Total private	34.5	34.4	34,6	34.6	\$11.43	\$ 11.82	\$12.28	\$12.77	\$394.34	\$406.61	\$424.89	\$441.84
Goods-producing	41.0	41.1	41.3	41.0	13.04	13.47	13.92	14.33	534.64	553.62	574.90	587.53
Mining	44.7	45.3	45.4	43.9	15.30	15.62	16.17	16.95	683.91	707.59	734.12	744.11
Construction	38.9	39.0	38.9	38.8	15.09	15.47	16.03	16.56	587.00	603.33	623.57	642.53
Manufacturing	41.6 4.4	41.6 4.5	42.0 4.8	41.7 4.6	12.37 (2)	12.77 (2)	13.17 (2)	13.49 (2)	514.59 (2)	531.23 (2)	553.14 (2)	562.53 (2)
Durable goods Overtime	42.4 4.7	42.4 4.8	42.8 5.1	42.3 4.8	12.94 (2)	13.33 (2)	13.73 (2)	13.99 (2)	548.66 (2)	565.19 (2)	587.64 (2)	591.78 (2)
Lumber and wood products	40.6 39.6	40.8 39.4 43.3	41.0 40.2 43.2	41.1 40.5 43.4	10.12 9.82 12.41	10.44 10.15 12.82	10.77 10.55 13.18	11.11 10.89 13.61	410.87 388.87 533.63	425.95 399.91 555.11	441.57 424.11 569.38	456.62 441.05 590.67
Stone, clay, and glass products Primary metal industries	44.4	44.2 44.5	44.9 44.9	44.2 44.6	14.62 17.33	14.97 17.80	15.22 18.03	15.48 18.43	643.28 769.45	661.67 792.10	683.38 809.55	684.22 821.98
Fabricated metal productsIndustrial machinery and equipment Electronic and other electrical equipment	42.4 43.4 41.6	42.4 43.1 41.5	42.6 43.6 42.0	42.3 42.8 41.4	12.13 13.24 11.69	12.50 13.59 12.18	12.79 14.07 12.70	13.07 14.45 13.12	514.31 574.62 486.30	530.00 585.73 505.47	544.85 613.45 533.40	552.86 618.46 543.17
Transportation equipment	43.8	44.0 44.9 41.7	44.5 45.0 42.0	43.4 43.5 41.3	16.74 17.34 12.71	17.19 17.74 13.13	17.56 18.06 13.51	17.56 17.94 13.77	733.21 778.57 526.19	756.36 796.53 547.52	781.42 812.70 567.42	762.10 780.39 568.70
Miscellaneous manfacturing	39.9	39.7	40.4	39.9	10.05	10.38	10.59	10.88	401.00	412.09	427.84	434.11
Nondurable goods	40.5 4.0	40.5 4.1	40.9 4.4	40.9 4.3	11.58 (2)	11.97 (2)	12.33 (2)	12.75 (2)	468.99 (2)	484.79 (2)	504.30 (2)	521.48 (2)
Food and kindred products Tobacco products	39.6	41.0 40.0	41.3 38.9	41.7 38.3	10.93 19.41	11.20 19.35	11.49 19.27	11.80 18.67	449.22 768.64	459.20 774.00	474.54 749.60	492.06 715.06
Textile mill products	37.0	40.6 37.0 43.3	41.4 37.3 43.7	41.0 37.3 43.4	9.41 7.64 14.23	9.69 7.96 14.67	10.03 8.25 15.04	10.38 8.52 15.50	383.93 282.68 613.31	393.41 294.52 635.21	415.24 307.73 657.25	425.58 317.80 672.70
Printing and publishing	43.2	38.2 43.2 43.6	38.5 43.2 43.1	38.3 43.2 43.6	12.33 15.62 19.36	12.65 16.17 19.32	13.05 16.58 20.18	13.44 17.13 20.88	471.01 674.78 846.03	483.23 698.54 842.35	502.43 716.26 869.76	514.75 740.02 910.37
Rubber and misc. plastics products Leather and leather products		41.5 38.1	41.8 38.4	41.7 37.6	10.91 8.17	11.24 8.57	11.57 8.98	11.87 9.33	452.77 310.46	466.46 326.52	483.63 344.83	494.98 350.81
Service-producing	32.7	32.7	32.9	32.9	10.88	11.26	11.73	12.26	355.78	368.20	385.92	403.35
Transportation and public utilities	39.4	39.6	39.7	39.5	14.13	14.45	14.93	15.35	556.72	572.22	592.72	606.33
Wholesale trade	38.3	38.3	38.4	38.4	12.43	12.87	13.44	14.01	476.07	492.92	516.10	537.98
Retail trade		28.8	28.9	29.1	7.69	7.99	8.34	8.75	221.47	230.11	241.03	254.63
Finance, insurance, and real estate	35.9	35.9	36.1	36.4	12.32	12.80	13.33	14.05	442.29	459.52	481.21	511.42
Services	32.4	32.4	32.6	32.7	11.39	11.79	12.28	12.85	369.04	382.00	400.33	420.20

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.

Not available.

NOTE: Establishment survey estimates are currently projected from March 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision. Overtime hours for total, durable goods, and nondurable goods manufacturing for 1995-1997 have been corrected.

P = preliminary.

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 U.S., 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 pay-

roll 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 unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*.

Agricultural employment estimates of the 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 fulland 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 seveneighths 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.

Effective with data for 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.

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.

Changes in the occupational and industrial classification system

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of 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 in order 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 (SMSA's), which were redefined in 1973. In January 1985, a new Statebased 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 1990's. 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 (PSU's). 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 fifty 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 unemployment 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 (PSU's). In most States, a PSU consists of a county or a number of contiguous coun-

ties. 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 PSU's. Outside of metropolitan areas, counties normally are combined except when the geographic area of an individual county is too large. Combining counties to form PSU's 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 PSU's 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 PSU's in strata by themselves. These strata are self-representing and are generally the most populous PSU's in each State. The 326 remaining strata are formed by combining PSU's 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 mobil 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 additional 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.

Table 1-A. Characteristics of the CPS sample, 1947 to present

Time period	Number of sample	Househo	Households eligible				
Time period	areas	Interviewed	Not interviewed	but not eligible			
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	² 333 .	33,500	1,500	6,000			
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000			
Jan. 1967 to July 1971	449	48,000	2,000	8,500			
Aug. 1971 to July 1972	449	45,000	2,000	8,000			
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000			
	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			
	792	52,900	3,400	9,700			
Jan. 1996 to present	754	46,800	3,200	9,000			

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.

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; 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 PSU's 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 PSU's

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 PSU's and 2) the race distribution of all PSU's (both 1 and 2 exclude self-representing PSU's).

- 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 personnel 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. Bailar, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. 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 Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, Annals of Economic and Social Measurement, Vol. 2, April 1973; and in The Current Population Survey, Design and Methodology, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive discussion of various sources of 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.

More accurate standard error estimates for historical CPS data may be found in previous issues of this publication.

Tables I-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 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-B. Standard errors for major employment status categories

(In thousands)

Category	Monthly level	Consecutive- month change
Total, 16 years and over: Civilian labor force Employed Unemployed	293 312 145	216 235 161
Men, 20 years and over: Civilian labor force Employed Unemployed	194 206 97	164 174 113
Women, 20 years and over: Civilian labor force Employed Unemployed	219 224 91	165 171 105
Both sexes, 16 to 19 years: Civilian labor force Employed Unemployed	97 96 62	95 95 81
Black, 16 years and over: Civilian labor force Employed Unemployed	138 140 66	101 105 76
Men, 20 years and over: Civilian labor force Employed Unemployed	78 71 43	69 72 50
Women, 20 years and over: Civilian labor force Employed Unemployed	98 97 44	73 74 51
Both sexes, 16 to 19 years: Civilian labor force Employed Unemployed	40 35 32	42 37 37
Hispanic origin, 16 years and over: Civilian labor force Employed Unemployed	130 134 63	91 107 73

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 quarterly 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.

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
		1
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	.01	.00
protective service	.38	.45
Precision production, craft, and repair	.34	.40
Machine operators, assemblers, and	.54	.+0
inspectors	.49	.58
Transportation and material moving	.55	.66
Handlers, equipment cleaners, helpers,	.55	.00
and laborers	.73	.87
	.73 .73	
Farming, forestry, and fishing	./3	.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
J,		· -

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 monthto-month change estimate is based on the average level of the estimate for the 2 months, 116,150,000. Using the 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.

$$246,000 + \left(\frac{120,000,000 - 116,150,000}{120,000,000 - 100,000,000}\right) (274,000 - 246,000) \stackrel{\bullet}{=} 251,000$$

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 I-F and I-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-D. Standard errors for estimates of monthly levels (In thousands)

	Characteristic									
:	Agricultural employment		Unemployment		Labor force data other than agricultural employment and unemployment				al	
Estimated monthly level									Hispa	ınic origin
	Total or white	Black	Total or white	Black	Hispanic origin	Total	White	Black	Employed	Civilian labor force or not in labor force
50	41 62 96 157 216 273 330	13 18 39 55 76	12 17 38 54 76 107 131 150 167 201 228	13 18 39 54 74 96 106 108 101	13 19 42 59 82 113	12 17 39 54 77 108 131 151 168 202 229 271 302 324 340 350 354 349 322 267	12 17 39 54 77 108 131 150 167 201 227 267 296 315 327 333 333 313 264 159	13 18 39 55 76 103 120 131 137 137	14 20 44 61 83 111 126 134 135 110	14 20 44 61 83 111 126 134 135 110

Table 1-E. Standard errors for estimates of month-to-month change in levels (in thousands)

	Characteristic									
	Agricu emplo	ıltural yment	Un	Unemployment			Labor force data other than agricultural employment and unemployment			
Estimated monthly level									Hispa	ınic origin
,	Total or white	Black	Total or white	Black	Hispanic origin	Total	White	Black	Employed	Civilian labor force or not in labor force
50	14 19 43 59 78 95 94 73	12 17 37 52 72	14 20 46 64 89 124 148 166 180 204 215	15 21 46 63 84 104 106 92 47	16 22 50 69 95 127	10 14 32 45 63 88 108 123 137 165 187 221 245 262 274 281 283 274 246 188	10 14 32 45 63 88 108 123 137 165 187 221 245 262 274 281 283 274 246 188	10 15 33 45 62 84 97 104 108 100 58	12 17 37 51 70 93 105 110 110 79	10 14 31 43 59 78 89 94 95 76

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.

$$a = -0.000017962$$
 $b = 2957.13$

$$S_x = \sqrt{(-0.000017962)(6,000,000)^2 + (2957.13)(6,000,000)} = 131,000$$

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.

$$a = -0.000093662 b = 4191.84$$

$$s_x = \sqrt{-(0.000093662)(6,100,000)^2 + (4191.84)(6,100,000)} = 149,000$$

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 data other than agricultural employment and unemployment: Total, Women"). Apply the formula to obtain:

$$s_{y,p} = \sqrt{\frac{2529.99}{5.600.000}(32)(100-32)} \doteq 1.0 \text{ percent}$$

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.

$$s_{y,p} = \sqrt{\frac{2690.59}{5,650,000}(33)(100-33)} \doteq 1.0 \text{ percent}$$

It should be noted that the numerator of the percentage (part-time employed) determined the choice of correlation.

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 000032770 000029553 000171805	2985.26 2764.05 2529.99 2544.62
White ¹ Men Women Both sexes, 16 to 19 years	000020028 000036840 000033710 000204195	2984.72 2766.67 2526.82 2549.88
Black Men Women Both sexes, 16 to 19 years	000125300 000302096 000182509 001294516	3139.26 2930.79 2637.41 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 Men Women or both sexes, 16 to	.000782035	3048.57 2825.09
19 years	000024885 000134884	2582.39 3154.76
Hispanic origin: Total or women Men or both sexes, 16 to 19 years	.011857446	2894.85 1702.50
Unemployment:		
Total or white	000017962 000212109 000101820	2957.13 3149.77 3576.47

¹ Excludes not-in-labor-force data.

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 formula for s_x to compute an approximate standard error for a monthly estimate of 11,600,000.

$$a = -0.000125300$$
 $b = 3139.26$

$$S_X = \sqrt{(-0.000125300)(11,600,000)^2 + (3139.26)(11,600,000)} = 140,000$$

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.

Table 1-G. Parameters for computation of standard errors for estimates of month-to-month change in levels

Characteristic	а	b
Labor force and not-in-labor-force data other than agricultural employment and unemployment:		
Total or white:	-0.000012482	2001.12
Most characteristics High correlation characteristics ¹	000009288	1564.84
Low correlation characteristics ¹	000016162	2550.56
Men:		4004.40
Most characteristics	000022599 000016814	1921.13 1500.99
Low correlation characteristics	000058387	2668.56
Women:	_	
Most characteristics	000021229 000059785	1689.99 2690.59
Low correlation characteristics		
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 002881467	2280.03 5829.60
Low correlation characteristics	002001407	3029.00
Women: Most characteristics	000156363	1860.78
Low correlation characteristics	002311407	5420.13
Both sexes, 16 to 19 years	001288452	3131.77
Hispanic origin:	000157001	2774.53
Total	000157201 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:	000395757	3838.04
Total	000393737	3959.25
Women or both sexes, 16 to 19 years	.000130289	2367.00
Black:	000400055	0004.70
Total or women	000122355 019110769	2861.72 5876.77
· •	.010110100	00/ 0// .
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:	00000000	4104.04
Total, men, women Both sexes, 16 to 19 years and low correlation characteristics	000093662 000071624	4191.84 5121.75
Black:		
Total, men, women, and both sexes, 16 to 19 years	000414217	4361.16
High correlation characteristics	.000048170	3088.91
Hispanic origin:	000252897	5054.25
Total, men, women Both sexes, 16 to 19 years and low correlation characteristics	000252697	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.

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

		Factor						
Characteristic	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 1.30 1.30 1.40 1.40	0.92 .82 .78 .80	0.70 .84 .88 .80	0.79 .57 .49 .59	0.70 .70 .70 .70 .70			
employment and unemployment: Total or white	1.30 1.30 1.30 1.30 1.40	.87 .87 .87 .79 .82	.85 .84 .80 .88 .90	.65 .65 .65 .54	.70 .70 .70 .70 .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 on the Internet at: http://stats.bls.gov

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.	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 pay- roll 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 av	erage 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.				

¹The 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.

ings 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.

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earn-

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 1960's. 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 utilizing 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 1987-97 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 1997 is listed as 130,000; this represents the average of bias adjustments made each month over the period April 1996 through March 1997. 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 age, 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 of the

Table 2-B. March employment benchmarks and bias adjustments for total private industries, March 1987-97 (In thousands)

Voca	Bench	mark	Average m	Over-the-year	
Year	Employment ¹	Revision ²	Added ³	Required ⁴	employment change⁵
1987	83,173	21	98	99	1,969
1988	86,180	-310	114	88	3,007
989	89,015	-93	131	123	2,835
990	90,546	-261	85	63	1,531
991	88,790	-583	61	12	-1,756
992	88,347	-130	33	22	-443
993	89,790	288	83	107	1,443
994	92,730	688	115	171	2,940
995	96,175	511	144	187	3,445
996	98,158	72	129	135	1,983
997	101,040	518	130	173	2,882

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.

course of an inter-benchmark period, i.e., from April of the prior year through March of the given year.

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

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.

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 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 change =
$$\sqrt{s_1^2 + s_2^2 - 2\rho s_1 s_2}$$

If
$$S_1 = S_2$$
, then:

$$\sqrt{2s_1^2(1-\rho)}$$
S change =

Conservative estimates of p 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 refiling cycle is such that every third year entire division(s) are subject to refiling. The volume of these adjustments is generally quite large and has a substantial impact on universe employment counts at the industry levels, although the total nonfarm employment level remains unaffected. For example, in a year when the services division is refiled, a substantial

Table 2-C. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1997

		Sample coverage ¹				
la di sata i	Bench- marks		Employees			
Industry	(thou- sands)	Number of establishments	Number (thou- sands)	Percent of bench- marks		
Total	120,903	316,992	44,036	36		
Mining	580	3,057	225	39		
Construction	5,260	25,915	1,010	19		
Manufacturing	18,519	56,104	8,654	47		
Transportation and						
public utilities	6,331	² 16,398	2,263	36		
Wholesale trade	6,567	25,215	1,148	17		
Retail trade	21,467	60,605	5,086	24		
Finance, insurance,						
and real estate	6,988	21,824	2,005	29		
Services	35,328	75,482	8,333	24		
Government:		[
Federal	2,700	35,145	2,700	100		
State	4,692	6,880	3,848	82		
Local	12,471	20,367	8,764	70		

¹Counts 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. A small sample is used to estimate hours and earnings data.

³Total 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 51 percent of employment in Federal establishments.

Table 2-D. Current (March 1997) and historical benchmark revisions

(Numbers in thousands)

Industry		n 1997 rk revision	10-year average mean percent revision ¹		
	Level	Percent	Actual	Absolute	
Total	431	0.4	0.1	0.3	
Total private	518	.5	.1	.4	
Goods-producing	196	.8	.1	.8	
Mining	18	3.1	6	1.7	
Metal mining	-1	-1.9	-1.7	3.3	
Coal mining	4	4.2	-1.0	2.6	
Oil and gas extraction	14	4.3	4	2.4	
Nonmetallic minerals, except fuels	0	0	4	1.6	
Construction	56	1.1	4	1.3	
General building contractors	10	.8	6	2.3	
Heavy construction, except building	24	3.4	.6	2.1	
Special trade contractors	22	.7	6	1.2	
Manufacturing	122	.7	.2	.7	
Durable goods	73	.7	.3	.8	
Lumber and wood products	-4	5	.2	1.7	
Furniture and fixtures	2	.4	.3	1.1	
Stone, clay, and glass products	10	1.9	.5	.9	
Primary metal industries	0	0	1	.8.	
Blast furnaces and basic steel products	-1	4	.6	1.2	
Fabricated metal products	3	.2	.2	.7	
	9	.4	(²)	1.2	
Industrial machinery and equipment	- 4	-1.1	6	2.0	
Computer and office equipment	30	1.8	2	.9	
Electronic and other electrical equipment	22	3.5	.1	1.9	
Electronic components and accessories	14	.8	.9	1.0	
Transportation equipment	14	1.4	1.3	1.3	
Motor vehicles and equipment	-5	-1.0	.8	1.4	
Aircraft and parts	-5 6	.7	.3	1.9	
Instruments and related products	3	.8	.3	1.4	
Miscellaneous manufacturing					
Nondurable goods	49	.6	.2	.7	
Food and kindred products	-2	1	.2	.9 4.0	
Tobacco products	0	0	.4		
Textile mill products	.8	1.3	.1	.9	
Apparel and other textile products	12	1.4	.3	1.3	
Paper and allied products	9	1.3	.5	.7	
Printing and publishing	9	.6	2	.8	
Chemicals and allied products	6	.6	(²) 5	.9 1.7	
Petroleum and coal products	0	0	I	1.5	
Rubber and miscellaneous plastics products	6 0	.6 0	.5 1	2.1	
Leather and leather products	_				
Service-producing	235	.2	.1	.3	
Transportation and public utilities	-22 61	3 -1.5	3 6	1 1.4	
Transportation	-61 -1	-1.5 4	-1.1	1.1	
Railroad transportation	-1 -7	-1.5	5	2.1	
Local and interurban passenger transit	-7 -13	-1.5	5 -1.7	2.9	
Trucking and warehousing	-13 3	1.7	.4	3.5	
Water transportation	-46	-4.1	2.0	5.3	
Transportation by air		0	.6	5.2	
Pipelines, except natural gas	0	.5	.6 -1.3	3.0	
Transportation services	2			3.0 1.2	
Communications and public utilities	39	1.7	1 .1	1.9	
Communications	42	3.0	.2		
Electric, gas, and sanitary services	-3	3	1	.7	
Wholesale trade	-4 5	1	5 - 5	1.2 1.5	
	~	1 1	5	1.0	
Durable goods	-9	3	5	1.0	

See footnotes at end of table.

Table 2-D. Current (March 1997) and historical benchmark revisions—Continued (Numbers in thousands)

Industry.		h 1997 ark revision	10-year average mean percent revision ¹		
Industry	Level	Percent	Actual	Absolute	
Retail trade	-27	1	.4	.6	
Building materials and garden supplies	_, 6	7	.1	1.5	
General merchandise stores	-76	-2.9	1.8	2.9	
Department stores	-65	-2.8	2.4	3.7	
Food stores	2	1 .1	2	.7	
Automotive dealers and service stations	-9	4	-1,1	1.1	
New and used car dealers	-6	6	7	1.0	
Apparel and accessory stores	-7	7	1.1	1.6	
Furniture and home furnishings stores	-32	-3.3	7	1.4	
Eating and drinking places	118	1.6	.8	1.2	
Miscellaneous retail establishments	-27	-1.0	.1	.9	
Finance, insurance, and real estate	37	.5	3	1.2	
Finance	.9	.3	7	1.3	
Depository institutions	-15	7	-1.1	1.4	
Commercial banks	-24	-1.7	6	.9	
Savings institutions 3	8	3.1	-3.6	6.1	
Nondepository institutions	20	3.6	1.2	2.5 5.0	
Mortgage bankers and brokers	6	2.4	1.1		
Security and commodity brokers	4	.7	.1	1.2 5.0	
Holding and other investment offices	1	.5	-3.7	5.0 1.3	
Insurance	27	1.2 1.5	.4	1.3 1.6	
Insurance carriers	23 4	1.5	.3 .5	1.2	
Insurance agents, brokers, and service Real estate	1	.1	4	1.5	
Services 4	338	1.0	.2	.6	
Agricultural services	8	1.4	2.0	2.2	
Hotels and other lodging places	-4	2	.5	1.3	
Personal services	-13	-1.0	.5	1.5	
Business services	218	2.8	.7	2.0	
Services to buildings	31	3.4	1.3	1.7	
Personnel supply services	118	4.2	1.7	3.8	
Help supply services ³	130	5.2	2.0	3.1	
Computer and data processing services	64	4.7	(²)	3.3 1.5	
Auto repair, services, and parking	-12	-1.1	-1.2	1.5 4.8	
Miscellaneous repair services	-9	-2.4	8	4.0 4.0	
Motion pictures	7	1.3	-1.8	2.8	
Amusement and recreation services	33	2.3	.8	2.8 .8	
Health services	29 -1	.3	7 9	.6 1.6	
Offices and clinics of medical doctors	-1 -5	3	6	.8	
Nursing and personal care facilities	-6	2	8	.8	
Hospitals Home health care services ³	29	4.1	1.5	2.8	
Legal services	<u>-</u> 8	9	5	1.2	
Educational services	31	1.4	1,2	2.8	
Social services	31	1.2	3	1.6	
Child day care services	-15	-2.6	-2.8	4.8	
Residential care	16	2.3	.1	1.6	
Museums and botanical and zoological gardens	3	3.6	1.9	2.5	
Membership organizations	53	2.4	2.6	3.3	
Engineering and management services 3	-7	2	.1	1.4	
Engineering and architectural services	-9	-1.1	8	1.3	
Management and public relations ³	-12	-1.3	.9	3.3	
Services, nec	0	0	.3	.7	
Government	-87	4 0	(²) O	.2 0	
Federal	0 0		0	0	
Federal, except Postal Service	•	-1.2		.6	
State	-56	-1.2 -2.0	.2 .3	.0 1,2	
Education	-41 -15	-2.0 6	.3 .2	1. <u>c</u>	
Other State government	-15	0 2	. <u>~</u> /2\	 Q	
Local	-31 1	2	(²) 1	.5 .3 .3	
Education	1	1		.s .4	
Other local government	-33	6	0	.4	

¹ Data relate to the 1988-97 benchmarks, as originally published, unless otherwise noted.
² Less than 0.05 percent.

³ Data relate to 1989-97.

⁴ 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 1.1 .8 .6 .4	1.9 1.5 1.2 .9 .7	3.2 2.6 2.2 1.7 1.3 1.1

¹Relative 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	1		
public utilities	.3	.5	1.0
Wholesale trade	.2	.2	.4
Retail trade	.1	.1	.3
Finance, insurance, and real estate	.2 .2	.2 .2	.7 .4

¹Relative errors were estimated with sample data from March 1994-March 1995.

amount of employment is usually reclassified out of services to other major divisions, thus, lowering the benchmark level for services, and potentially causing a significant downward revision in the services employment totals previously published.

Revisions between preliminary and final data. First preliminary estimates of employment, hours, and earnings, based on less than the total sample, are published immediately following the reference month. Final revised samplebased 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

In ducation .	Root-mean-square error	Mean percent revision		
Industry	of monthly level ¹	Actual	Absolute	
Total	57,900	0	0	
Total private	49,000	0	О	
Goods-producing	13,200	0	o	
	1,800	0	.2	
Mining Metal mining	300	1	.4	
Coal mining	800	.1	.6	
Oil and gas extraction	1,800	0	.4	
Nonmetallic minerals, except fuels	300	0	.2	
Construction	8,000	.1	.1	
General building contractors	4,000	.1	.3	
Heavy construction, except building	3,500	0	.4	
Special trade contractors	4,800	.1	.1	
Manufacturing	9,000	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	1,100	0	.2	
Primary metal industries	1,700	0	.2	
Blast furnaces and basic steel products	1,400	0	.4	
Fabricated metal products	2,000	0	.1	
Industrial machinery and equipment	2,500	0	.1	
Computer and office equipment	1,500	.2	.3	
Electronic and other electrical equipment	2,400	0	.1	
Electronic components and accessories	1,400	0	.2	
Transportation equipment	4,200	0	.2	
Motor vehicles and equipment	3,700	.1	.3	
Aircraft and parts	1,600	0	.2	
Instruments and related products	1,600	0	.1	
Miscellaneous manufacturing	1,100	.1	.2	
Nondurable goods	4,700	0	.1	
Food and kindred products	2,800	-,1	.1	
Tobacco products	500	.5	.9	
Textile mill products	1,100	0	.1	
Apparel and other textile products	2,500	.1	.2	
Paper and allied products	1,200	0	.1	
Printing and publishing	1,600	.1	.1	
Chemicals and allied products	1,700	1	.1	
Petroleum and coal products	900	0	1 "	
Rubber and miscellaneous plastics products Leather and leather products	1,500 600	0 0	.1	
Service-producing	53,500	0	0	
Transportation and public utilities	10,000	1	.1	
Transportation	9,000	1	.2	
Railroad transportation	2,200	1	.7	
Local and interurban passenger transit		2	.6	
Trucking and warehousing	5,800	1	.2	
Water transportation	1,500	3	.8	
Transportation by air	1	1	.4	
Pipelines, except natural gas	1 '000	3	.7	
Transportation services		1	.2	
Communications and public utilities	1	0	.1	
Communications		.1	.2	
Electric, gas, and sanitary services		0	.1	
Wholesale trade	7,300	.1	.1	
Durable goods	4,200	.1	.1	
Nondurable goods	4,800	.1	.1	

See footnotes at end of table.

Table 2-G. Errors of preliminary employment estimates—Continued

1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Root-mean-square error	Mean percent revision		
Industry	of monthly level ¹	Actual	Absolute	
Retail trade	33,100	.1	.1	
Building materials and garden supplies	2,500	0	.2 .5	
General merchandise stores	18,700	.1	.5	
Department stores	17,300	.1	.5	
Food stores	6,100	.1	.1	
Automotive dealers and service stations	2,900	1	.1	
New and used car dealers	1,200	1	.1	
Apparel and accessory stores	5,900	.2	.4	
Furniture and home furnishings stores	3,500	.1	.3	
Eating and drinking places	11,700	.1	.1	
Miscellaneous retail establishments	8,600	.2	.3	
Finance, insurance, and real estate	5,900	0	.1	
Finance	3,400	0	.1	
Depository institutions	2,400	0	.1	
Commercial banks	1,800	0	.1	
Savings institutions	1,200	1	.3	
Nondepository institutions	1,400	.1	.2 .3 .2	
Mortgage bankers and brokers	1,000	0	.3	
Security and commodity brokers	1,000	Ō	.2	
Holding and other investment offices	1,600	Ō	.5	
Insurance	2,800	<u>o</u>	.1	
Insurance carriers	2,600	o o	.1	
Insurance agents, brokers, and service Real estate	1,100 2,600	.1 0	.1 .2	
Services 2	29,600	0	.1	
Agricultural services	2,800	.1	.4	
Hotels and other lodging places	6,200	.i	.3	
Personal services	7,900	1	.4	
Business services	12,600	.i	.1	
Services to buildings	2.600	Ö	.2	
Personnel supply services	11,100	.1	.3	
Help supply services	10,700	.1	.3	
Computer and data processing services	2,500	.1	.3 .2 .2 .2 .2	
Auto repair, services, and parking	2,100	0	.2	
Miscellaneous repair services	1,100	0	.2	
Motion pictures	5,700	0		
Amusement and recreation services	9,000	.2	.5	
Health services	5,300	0	0	
Offices and clinics of medical doctors	2,600	0	1 .1	
Nursing and personal care facilities	1,700	0	.1	
Hospitals	3,100	0	.1	
Home health care services	2,000	.1	.3	
Legal services	1,400	0	.1	
Educational services	13,200	-1	.6	
Social services	8,300	.1	.3	
Child day care services	4,600	.2	.6	
Residential care	1,400	0	.2	
Museums and botanical and zoological gardens	700	.2	.6	
Membership organizations	3,400	0	.1	
Engineering and management services	4,900	0	.1	
Engineering and architectural services	2,300	0	.2	
Management and public relations	3,300	.1	.3	
Services, nec	400	0		
Government	19,700	0	.1	
Federal	9,400	0	.2	
Federal, except Postal Service	8,500	0	.3	
State	11,200	0	.2	
Education	10,100	0	.3 .2 .4 .2	
Other State government	5,200	0	.2	
Local	16,200	0	-	
Education	13,600	.1	.1	
Other local government	11,000	0		

¹The 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.

NOTE: Errors are based on differences from January 1993 through December 1997.

² Includes other industries, not shown separately.

Region, State, and Area Labor Force Data ("C" tables)

FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which 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 LMA's, 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 LMA's, 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 LMA's 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 LMA's 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 readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, 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 1997, with the release of the March 1996 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 X-12 ARIMA (first introduced in June 1996) replaces the X-11 ARIMA, which had been used to adjust these series since the early 1980's. All national establishment-based series were revised back to 1988.

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 varia-

tion 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.

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 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 broader level seasonally adjusted series.

Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census workers for the decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

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 rather than through the previously used moving-holiday extension of X-11 ARIMA. 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; this replaces the X-11 ARIMA-based procedure previously used to account for this effect.

Revised seasonally adjusted national establishment-based series based on the experience through March 1997, new seasonal adjustment factors for March-October 1997, and a description of the current seasonal adjustment procedure appear in the June 1997 issue of *Employment and Earnings*. Revised factors for the September 1997-April 1998 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.

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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