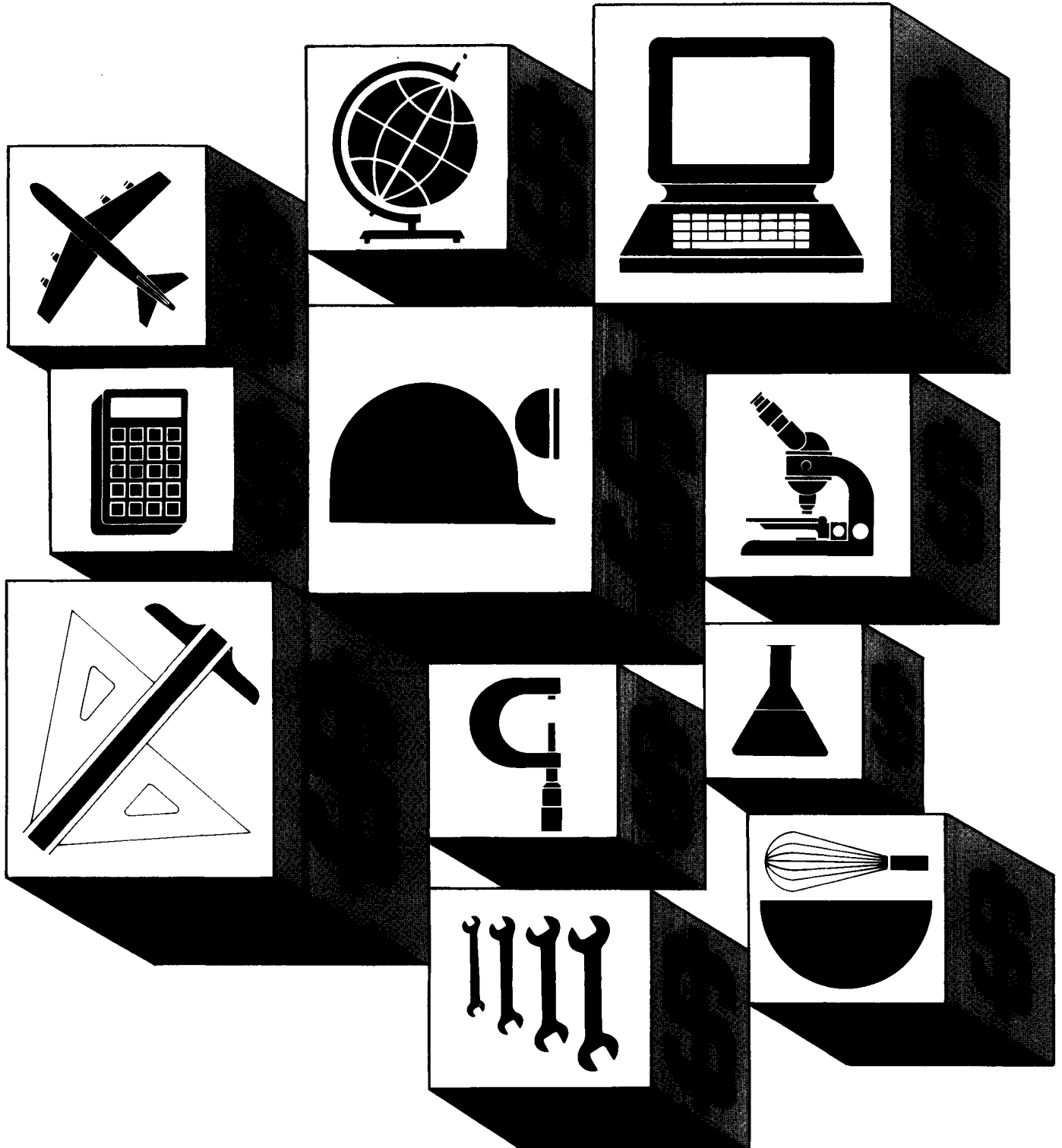




EMPLOYMENT AND EARNINGS

In this issue: 1990 annual averages
Revised seasonally adjusted labor force series
Data on union affiliation
Median weekly earnings for detailed occupations
Employee absences

U.S. Department of Labor
Bureau of Labor Statistics
January 1991





U.S. DEPARTMENT OF LABOR

Calendar of Features

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

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

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Area definitions	May

State and area labor force data

Annual averages	May
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¹ The September 1990 issue introduced March 1989 benchmarks.

² A historical bulletin is forthcoming.

Employment and Earnings

Vol. 38 No. 1 January 1991

Editors: Gloria Peterson Green, Rosalie K. Epstein

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 1990. As a result, seasonally adjusted data for the past 5 years are subject to revision. Revised current data appear in tables A-1, 2, 3, and 32-53. Revised monthly data covering the 1986-90 revision period for over 400 series will appear in next month's issue.

The article beginning on page 10 of this issue discusses the effects of the revisions, describes the seasonal adjustment methodology, and gives the new seasonal adjustment factors to be used to calculate the major civilian labor force series for January-June 1991.

This issue also introduces as a regularly recurring special feature, annual data on absences from work of full-time wage and salary workers by selected characteristics. Data for 1990 appear in tables 61 and 62.

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Employment and Unemployment Developments, December 1990

The Nation's employment situation deteriorated further in December, as the civilian worker unemployment rate rose from 5.9 to 6.1 percent. Nonfarm payroll employment declined, though not as much as in the prior 2 months. Total civilian employment, which has also fallen substantially in recent months, was little changed in December.

Unemployment

The number of unemployed persons rose by 260,000 to 7.6 million in December, and the civilian worker unemployment rate rose to 6.1 percent. Since June, the jobless count has risen by 1 million and the jobless rate has increased by eight-tenths of a percentage point, reaching its highest level since June 1987.

Jobless rates for most major worker groups continued their upward trend in December. Specifically, the rates rose to 5.6 percent for adult men, 5.3 percent for adult women, 5.3 percent for whites, and 9.3 percent for Hispanics. The rate for teenagers (16.6 percent) was little changed and that for blacks (12.2 percent) was unchanged over the month, but, as with the rates for the other groups, both have trended upward since mid-1990. (See tables A-33 and A-34.)

Persons reentering the labor force accounted for most of the increased unemployment in December. The number of unemployed who lost their last jobs was about unchanged but, at 3.8 million, was 600,000 higher than in June. The number of persons working part time for economic reasons—sometimes referred to as the partially unemployed—edged up by 150,000 to 5.6 million in December and has risen by 560,000 since June. (See tables A-41 and A-35.)

Civilian employment and the labor force

Following declines in October and November, total civilian employment was little changed in December at 117.6 million. Since June, the number of employed persons has fallen by nearly 700,000 (some of which stemmed from cutbacks in employment of temporary census workers). At 62.3 percent in December, the percentage of the population that is employed (the employment-population ratio) was six-tenths of a percentage point lower than in June. (See table A-33.)

The civilian labor force showed an increase of 450,000 in December, reaching 125.2 million. Over the past year, however, the labor force has risen by only 630,000. The

civilian labor force participation rate edged back up to 66.3 percent in December, following steady declines during most of the second half of the year. (See table A-33.)

Discouraged workers

The number of discouraged workers—persons who want to work but are not looking for jobs because they believe they could not find any—increased by 110,000 in the fourth quarter of 1990 to a seasonally adjusted level of 940,000. This was the highest level since the first quarter of 1988. Women accounted for all of the increase in discouragement in the fourth quarter. (See table A-53.)

Industry payroll employment

Nonfarm payroll employment decreased by 75,000 in December to 110.1 million. While much smaller than in the prior 2 months, job losses were still widespread. The largest declines occurred in retail trade, manufacturing, and construction. (See table B-4.)

Following extremely large cutbacks in November, manufacturing employment declined by 35,000 in December. Most manufacturing industries showed only small declines, but noteworthy losses occurred in industrial machinery as well as in several construction and auto-related industries—lumber; stone, clay, and glass; fabricated metals; and rubber and plastics. Employment in motor vehicles and equipment was up by 20,000 in December, reflecting the return of some auto workers from temporary layoffs; still, auto employment was about 55,000 lower than in mid-1990.

Employment in construction (seasonally adjusted) was down by 30,000 in December, following substantially larger losses in the prior 2 months. Since May, construction declines have totaled 290,000. Mining had a small job gain in December, mostly in oil and gas extraction.

In the service-producing sector, retail trade lost 50,000 jobs in December, after seasonal adjustment, with half of the decline in general merchandise (department and variety) stores. In part because employers did not staff up as much as they usually do for the Christmas buying period, retail employment fell by 150,000 over the past 3 months. Wholesale trade had its fourth straight monthly employment decrease in December; employment in this industry is down 55,000 since June.

In the services industry, health services added 55,000 jobs

in December and has increased its employment at about that pace throughout the year. In contrast, employment in business services declined for the third straight month and has lost 40,000 jobs since September.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls rose by 0.2 hour in December to 34.6 hours, seasonally adjusted, bringing the average workweek close to the September level. The manufacturing workweek increased 0.3 hour to 40.8 hours, seasonally adjusted, and factory overtime rose by 0.2 hour to 3.7 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers increased by 0.6 percent to 124.2 (1982 = 100) in December, seasonally adjusted. The index for

manufacturing rose by 0.7 percent to 104.2, seasonally adjusted. Over the year, however, the manufacturing index was down by 3.3 percent, reflecting the declines in employment. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers rose by 0.6 percent on a seasonally adjusted basis to \$10.20 in December. Average weekly earnings rose by 1.2 percent, seasonally adjusted, to \$352.92. Prior to seasonal adjustment, average hourly earnings were up 4 cents and average weekly earnings increased by \$6.48. Over the past year, average hourly earnings increased by 3.8 percent and average weekly earnings by 4.4 percent. (See tables C-1 and C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
January	February 1	April	May 3
February	March 8	May	June 7
March	April 5	June	July 5

Revision of Seasonally Adjusted Labor Force Series

Robert J. McIntire

The purpose of seasonal adjustment is to eliminate from economic time series the influence of weather, holidays, the opening and closing of schools, and other such seasonal events in order to make it easier to observe and analyze the cyclical and other nonseasonal movements in the series. The seasonality which the adjustment process endeavors to eliminate is represented by seasonal factors. The seasonal factors used for current adjustment are estimates of how much the original unadjusted values can be expected to deviate from underlying trend-cycle levels due to annually recurring behavior as projected from average seasonal patterns in the recent past.

Even though seasonality involves regularly recurring patterns, it does tend to change 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 by including another full year of data in the estimation process. Based on this annual reestimation, BLS issues the projected factors for the first 6 months of the new year as well as revised estimates of historical seasonally adjusted data for the last 5 years. Each year's data are generally subject to five revision cycles before the values are considered final. The fifth and final revisions in the earliest of the 5 years are usually quite small, while the first-time revisions in the most recent year are generally 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 1990 and provide revised estimates for January 1986 through December 1990 for all previously seasonally adjusted labor force series.

Robert J. McIntire is an economist and Chief of the Data Development Staff, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

In addition, historical seasonally adjusted series back to January 1983 have been produced for a number of occupational labor force series, which are being seasonally adjusted for the first time. The old occupational series were necessarily discontinued when the classification system changed at the end of 1982. Sufficient historical data for seasonal adjustment of the new occupational classifications have now accumulated, and publication of seasonally adjusted data for these series will begin with January 1991 data.

Table 1 contains the new projected seasonal factors to be applied during the first 6 months of 1991 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 1991 will be estimated in early July, based on data through June 1991, and published in the July issue of this publication.

Effect of revisions

One of the criteria used to evaluate alternative methods of seasonal adjustment is how close initial estimates are to subsequent revisions. Policymakers and analysts must make determinations based on current information, and so it is important that the initial estimates of current factors for the seasonal adjustment of major economic series produce estimates of level and change that are as close as possible to the improved estimates that will be made after more data have become available. Even though the revisions currently being released for the 1990 seasonally adjusted data are not final, the first revisions are, as mentioned above, usually the most substantial of the five that will be made and often indicate the direction any subsequent revisions will take. Therefore, it is appropriate to compare these first revisions with the initial estimates. Table 2 shows the overall and civilian unemployment rates for 1990 as first computed and as revised, as well as the change due to revision. Both of the rates, rounded to one decimal place as published, changed in only 3 or 4 months of the year, with the absolute effect of the changes never exceeding 0.1 percentage point in any of those months. Compared to the initial estimates, the revised rates suggest slightly smoother behavior for the rates during the year.

Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, January–June 1991

Procedure and series	January	February	March	April	May	June
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over	.900	.891	.933	.993	1.045	1.083
Women, 20 years and over	.839	.859	.924	.961	1.073	1.160
Men, 16 to 19 years	.637	.607	.737	.973	1.013	1.566
Women, 16 to 19 years	.604	.652	1.042	1.029	1.076	1.487
Nonagricultural employment:						
Men, 20 years and over	.986	.989	.993	.995	1.001	1.009
Women, 20 years and over	.997	.998	1.001	1.001	1.002	.994
Unemployment:						
Men, 20 years and over	1.219	1.178	1.108	1.034	.939	.924
Women, 20 years and over	1.046	1.031	.963	.931	.958	.985
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years	-313	-335	-261	-230	-112	412
Women, 16 to 19 years	-238	-255	-247	-203	-171	320
Unemployment:						
Men, 16 to 19 years	7	1	-45	-93	-18	168
Women, 16 to 19 years	-47	-50	-63	-66	-4	232

Table 2. Seasonally adjusted unemployment rates in 1990 and change due to revision

Month	Civilian worker rate			Overall rate		
	As first computed	As revised	Change	As first computed	As revised	Change
January	5.3	5.3	0	5.2	5.2	0
February	5.3	5.3	0	5.2	5.2	0
March	5.2	5.3	0.1	5.1	5.2	0.1
April	5.4	5.4	0	5.3	5.3	0
May	5.3	5.3	0	5.3	5.3	0
June	5.2	5.3	.1	5.1	5.2	.1
July	5.5	5.5	0	5.4	5.4	0
August	5.6	5.6	0	5.5	5.6	.1
September	5.7	5.7	0	5.6	5.6	0
October	5.7	5.7	0	5.6	5.6	0
November	5.9	5.9	0	5.8	5.8	0
December	6.2	6.1	-.1	6.1	6.0	-.1

¹ These rates reflect the use of seasonal factors projected for December 1990 as published in the July 1990 issue of *Employment and Earnings* and were

subject to revision before regular publication of December data.

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 1970's as an extension of and improvement to the widely used X-11 method developed at the U.S. Bureau of the Census in the 1960's.¹ The X-11 ARIMA method improves current estimates for most series by allowing recent observations, especially

those of the last 6 months, to weigh more heavily in the estimates of current and recent seasonal factors than did the X-11 alone. The method provides this improvement through the use of ARIMA models to extend the data series by 12 months. The X-11 algorithm for seasonal adjustment is then applied to the extended series.

¹ 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. 12-564 E, 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).

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 intrayear movements quite well. The ARIMA models in the X-11 ARIMA program used to seasonally adjust the

labor force series are of the Box-Jenkins type.² They can generally be described with the notation:

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

where:

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

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

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 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 189 of the 215 labor force series which were directly adjusted at the end of 1990, including all 12 major civilian labor force components, whose ARIMA models are shown in table 3. The models for four of those major components—nonagricultural employment for women 16 to 19 years and 20 years and over, agricultural employment for women 20 years and over, and unemployment for men 20 years and over—are different from those used last year. The 26 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 adjusting the labor force series within the X-11 part of the process were the same as those followed last year. A 10-year time period, including data from January 1981 through December 1990, was used for the adjustment of all the labor force series except for the occupational series, for which unadjusted data were available from January 1982 forward.

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

Table 3. ARIMA models used in end-of-1990 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	(0,1,4) (0,1,1)	LOG
Men, 16 to 19 years	(0,1,2) (0,1,1)	NONE
Women, 16 to 19 years	(2,1,2) (0,1,1)	NONE
Nonagricultural employment:		
Men, 20 years and over	(0,1,2) (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, 16 to 19 years	(2,1,0) (0,1,1)	NONE
Unemployment:		
Men, 20 years and over	(0,1,3) (0,1,1)	LOG
Women, 20 years and over	(0,1,2) (0,1,1)	LOG
Men, 16 to 19 years	(0,1,2) (0,1,1)	NONE
Women, 16 to 19 years	(0,1,2) (0,1,1)	NONE

The X-11 method of seasonal adjustment contained in the X-11 ARIMA procedure assumes that the original series, including the 12 extrapolated observations if an ARIMA model has been applied, is either the product or the sum of three components—trend-cycle, seasonal, and irregular. The method uses either a ratio-to- or difference-from-moving-average approach to estimate the components, depending on whether the multiplicative or additive model is used. The seasonally adjusted series values are computed by dividing each month's original value by the corresponding seasonal factor if the multiplicative model is used, or by subtracting the factor if the additive model is used. Of the 12 major civilian labor force components, the 4 teenage unemployment and nonagricultural employment series were adjusted using the additive model, and the other 8 series with the multiplicative model. Of all the 215 directly adjusted series, 51 were adjusted with the additive model, including most teenage employment and unemployment series, for which the seasonal component seems to be fairly independent of the trend-cycle.

Moving-holiday adjustment. Three 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. These three series, all relating to persons "at work" (that is, excluding those employed persons "with a job not at work"), had tested as having significant and well-defined effects in their April data related to the timing of Easter. The series are: (1 and 2) at work on part-time schedules for noneconomic reasons, usually work part time, all industries and nonagricultural industries, both of which are published monthly in seasonally adjusted form; and (3) at work on full-time schedules, nonagricultural industries, a seasonally adjusted series formerly published and still maintained. A detailed discussion of the nature of the Easter effect in these series and of the procedure used to control for it as part of the seasonal adjustment process was included in the January 1990 version of this article.

Six-month updates. The current official practice for the seasonal adjustment of the labor force series involves the running of all directly adjusted series through X-11 ARIMA twice each year, after receipt of June and December data, with 6 months of projected factors drawn from each run and historical revisions drawn from the end-of-year run. This practice allows, among other things, the prior publication of seasonal factors, which historically has been regarded by the Bureau of Labor Statistics and other statistical agencies as an important way of ensuring the openness of their seasonal adjustment procedures, especially where very sensitive indicators such as the unemployment rate have been involved. In recent years, a number of research studies, including a 1987 paper on the labor force series,³ 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 evaluate concurrent adjustment for the labor force series, and concurrently adjusted alternative estimates for major labor force series are available to interested users upon request.

Aggregation procedures

BLS maintains and publishes several hundred seasonally adjusted labor force series in addition to the 215 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 or resident Armed Forces levels, which are not seasonally adjusted because they are not considered to have any significant seasonal variation. For example, the seasonally adjusted levels of total unemployment, civilian employment, and civilian labor force, and the seasonally adjusted unemployment rate for all civilian workers, are all produced by aggregation of some or all of the seasonally adjusted results for the 12 major civilian labor force components. The seasonally adjusted level of total unemployment is the sum of the seasonally adjusted levels of unemployment for the four age-sex groups—men and women 16 to 19, and men and women 20 years and over. Seasonally adjusted civilian employment is the sum of the seasonally adjusted levels of employment for the eight employment components—the same four age-sex groups as noted above employed in nonagricultural and agricultural industries. The seasonally adjusted civilian labor force is the sum of all 12 components. The seasonally adjusted civilian unemployment rate is calculated by taking the total seasonally adjusted unemployment level as a percent

of the total seasonally adjusted civilian labor force. For the overall labor force, the resident Armed Forces level is added to the seasonally adjusted civilian labor force, and the seasonally adjusted overall unemployment rate is, of course, calculated by taking total seasonally adjusted unemployment as a percent of that labor force figure.

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

Availability of revised series

This issue of *Employment and Earnings* contains revised data for the last 13 months and quarters for many seasonally adjusted labor force series. Next month's issue will provide the 1986-90 revisions for a few hundred of the seasonally adjusted monthly labor force series most in demand and the complete seasonally adjusted history, 1983-90, for the occupational series that begin seasonally adjusted publication in 1991. The revisions replace the data published in the February 1990 issue for 1986-89 and the seasonally adjusted estimates for 1990 published during the past year. The seasonally adjusted data last published for 1985 and earlier years were not further revised.

Additional data for any of the several hundred seasonally adjusted labor force series, as well as the January-June 1991 factors for any of the directly adjusted series beyond the 12 major components, can be obtained from BLS upon request. Requests for data or inquiries concerning seasonal adjustment methodology or the availability of machine-readable files of labor force data should be addressed to the Data Development Staff, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics, Washington, DC 20212.

³ 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; copies of a more complete version of the paper can be obtained directly from the authors at the Bureau of Labor Statistics.

Introducing New Data on Employee Absences

Joseph R. Meisenheimer II

This issue of *Employment and Earnings* introduces a new series of annual data on absences from work. The data on absences relate only to wage and salary employees who usually work full time—35 hours or more per week. Annual average data for 1990 are presented in tables 61 and 62 (pp. 232-233). Table 61 shows absence data for full-time workers by age, sex, marital status, and age of their youngest child. Table 62 contains absence data by major occupation and industry.¹

The information on absences from work is obtained from the Current Population Survey (CPS), the monthly sample survey of about 60,000 households which provides a broad variety of data on the Nation's labor force. Data on absences are derived from questions asked of employed persons each month on the *usual* number of hours they work per week and the *actual* number of hours they worked during the survey reference week. The question on usual weekly hours is normally asked of one-fourth the CPS sample. Specifically, it is asked of the employed household members who are in either their fourth or eighth month in the sample. (Household respondents are interviewed for 4 consecutive months; they are then dropped from the sample for 8 months before returning for a final 4 months.) The question on actual hours is asked monthly of all employed persons in the CPS sample. Although these questions are asked of all employed persons, for purposes of obtaining absence data, only wage and salary workers are included; that is, self-employed and unpaid family workers are excluded.

When an employed wage and salary worker who usually

works 35 hours or more per week is reported as having worked fewer than 35 hours during the survey reference week (including those with jobs who worked zero hours), a question is asked as to why he or she worked fewer than 35 hours (or did not work at all). Workers whose reasons for missing work include their own illness or other personal reasons (such as family responsibilities or transportation problems) are counted as having had an absence. Those who are reported as having worked fewer than 35 hours because of vacation, holiday, labor-management dispute, or bad weather which results in an employer temporarily curtailing business activity are *not* counted as having had an absence.

From these questions, two measures of employee absences are obtained: the "absence rate" and the "lost worktime rate." The absence rate is the proportion of full-time wage and salary workers who have an absence (according to the above criteria) in an average week. The lost worktime rate is the total number of hours missed (usual hours minus actual hours) by absent workers in an average week as a percent of the total number of hours usually worked by all workers. The lost worktime rate, then, reflects both the proportion of workers with an absence and the amount of worktime these workers missed.

The definition of absences used in tables 61 and 62 differs from that used in table 29 (p. 200), which is limited to data on employed civilians who were not at work during any part of the reference week. In that table, *all* reasons for missing work are counted as absences.²

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¹ For a detailed analysis of data for 1989, see Joseph R. Meisenheimer II, "Employee absences in 1989: a new look at data from the CPS," *Monthly Labor Review*, August 1990, pp. 28-33.

² Although the *annual averages* of absence data published in tables 61 and 62 are new series offered by the Bureau of Labor Statistics, similar data for the month of *May only* were obtained by BLS from CPS supplements collected in 1973-80, 1985, and 1989. In these CPS supplements, the question on usual weekly hours was asked of *all* workers, not just those in their fourth or eighth month in the sample.

A-1. Employment status of the noninstitutional population 16 years and over, 1958 to date

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
Annual averages												
1958	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 ¹	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 ¹	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 ¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 ¹	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 ¹	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839	
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 ¹	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
1988	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,806	6,701	5.4	62,944	
1989	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523	
1990	189,686	126,424	66.6	119,550	1,637	117,914	3,186	114,728	6,874	5.4	63,262	
Monthly data, seasonally adjusted²												
1989:												
December	188,865	126,242	66.8	119,657	1,700	117,957	3,183	114,774	6,585	5.2	62,623	
1990:												
January	188,990	126,186	66.8	119,642	1,697	117,945	3,145	114,800	6,544	5.2	62,804	
February	189,090	126,331	66.8	119,752	1,678	118,074	3,119	114,955	6,579	5.2	62,759	
March	189,198	126,467	66.8	119,904	1,669	118,235	3,197	115,038	6,563	5.2	62,731	
April	189,326	126,438	66.8	119,747	1,657	118,090	3,140	114,950	6,691	5.3	62,888	
May	189,467	126,578	66.8	119,916	1,639	118,277	3,286	114,991	6,662	5.3	62,889	
June	189,607	126,427	66.7	119,867	1,630	118,237	3,279	114,958	6,560	5.2	63,180	
July	189,763	126,336	66.6	119,509	1,627	117,882	3,108	114,774	6,827	5.4	63,427	
August	189,901	126,345	66.5	119,330	1,640	117,690	3,152	114,538	7,015	5.6	63,556	
September	190,002	126,571	66.6	119,484	1,601	117,883	3,194	114,689	7,087	5.6	63,431	
October	190,095	126,445	66.5	119,303	1,570	117,733	3,175	114,558	7,142	5.6	63,650	
November	190,312	126,338	66.4	119,001	1,615	117,386	3,185	114,201	7,337	5.8	63,974	
December	190,483	126,791	66.6	119,191	1,617	117,574	3,253	114,321	7,600	6.0	63,692	

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

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

NOTE: Seasonally adjusted household survey data shown in tables A-1, 2, 3 and 32-53 have been revised based on the experience through December 1990. Data for 1986-90 are subject to revision. See the article in this issue for additional information.

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1980 to date

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force	
						Total	Agriculture	Nonagricultural industries			
Annual averages											
MEN											
1980	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945
1981	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073
1983	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484
1984	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771
1985	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058
1986 ¹	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376
1987	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692
1988	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930
1989	90,283	69,360	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923
1990	91,122	69,705	76.5	65,906	1,472	64,435	2,507	61,928	3,799	5.4	21,417
Monthly data, seasonally adjusted²											
1989:											
December	90,678	69,685	76.8	66,130	1,525	64,605	2,520	62,085	3,555	5.1	20,993
1990:											
January	90,772	69,608	76.7	66,013	1,523	64,490	2,493	61,997	3,595	5.2	21,164
February	90,822	69,648	76.7	66,086	1,506	64,580	2,471	62,109	3,562	5.1	21,174
March	90,874	69,667	76.7	66,104	1,497	64,607	2,497	62,110	3,563	5.1	21,207
April	90,942	69,697	76.6	66,035	1,499	64,536	2,435	62,101	3,662	5.3	21,245
May	91,014	69,729	76.6	66,061	1,472	64,589	2,562	62,027	3,668	5.3	21,285
June	91,087	69,609	76.4	65,964	1,465	64,499	2,571	61,928	3,645	5.2	21,478
July	91,168	69,523	76.3	65,728	1,462	64,266	2,478	61,788	3,795	5.5	21,645
August	91,240	69,552	76.2	65,663	1,475	64,188	2,477	61,711	3,889	5.6	21,688
September	91,271	69,814	76.5	65,853	1,441	64,412	2,512	61,900	3,961	5.7	21,457
October	91,299	69,804	76.5	65,822	1,414	64,408	2,504	61,904	3,982	5.7	21,495
November	91,440	69,899	76.4	65,790	1,453	64,337	2,518	61,819	4,109	5.9	21,541
December	91,537	70,058	76.5	65,781	1,454	64,327	2,572	61,755	4,277	6.1	21,479
Annual averages											
WOMEN											
1980	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922
1982	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993
1983	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181
1984	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068
1985	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686
1986 ¹	94,944	52,568	55.4	48,881	155	48,706	652	48,054	3,707	7.1	42,376
1987	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195
1988	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014
1989	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601
1990	98,564	56,719	57.5	53,644	165	53,479	679	52,800	3,075	5.4	41,845
Monthly data, seasonally adjusted²											
1989:											
December	98,187	56,557	57.6	53,527	175	53,352	663	52,689	3,030	5.4	41,630
1990:											
January	98,218	56,578	57.6	53,629	174	53,455	652	52,803	2,949	5.2	41,640
February	98,268	56,663	57.7	53,666	172	53,494	648	52,846	3,017	5.3	41,585
March	98,324	56,800	57.8	53,800	172	53,628	700	52,928	3,000	5.3	41,524
April	98,383	56,741	57.7	53,712	158	53,554	705	52,849	3,029	5.3	41,642
May	98,453	56,849	57.7	53,855	167	53,688	724	52,964	2,994	5.3	41,604
June	98,520	56,818	57.7	53,903	165	53,738	708	53,030	2,915	5.1	41,702
July	98,595	56,813	57.6	53,781	165	53,616	630	52,986	3,032	5.3	41,782
August	98,661	56,793	57.6	53,667	165	53,502	675	52,827	3,126	5.5	41,868
September	98,731	56,757	57.5	53,631	160	53,471	682	52,789	3,126	5.5	41,974
October	98,796	56,641	57.3	53,481	156	53,325	671	52,654	3,160	5.6	42,155
November	98,872	56,439	57.1	53,211	162	53,049	667	52,382	3,228	5.7	42,433
December	98,946	56,733	57.3	53,410	163	53,247	681	52,566	3,323	5.9	42,213

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

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

NOTE: Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1958 to date

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
1958	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 ¹	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 ¹	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 ¹	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 ¹	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 ¹	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 ¹	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
1989	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
1990	188,049	124,787	66.4	117,914	6,874	5.5	5.6	5.4
Monthly data, seasonally adjusted ²								
1989:								
December	187,165	124,542	66.5	117,957	6,585	5.3	5.2	5.4
1990:								
January	187,293	124,489	66.5	117,945	6,544	5.3	5.3	5.2
February	187,412	124,653	66.5	118,074	6,579	5.3	5.2	5.3
March	187,529	124,798	66.5	118,235	6,563	5.3	5.2	5.3
April	187,669	124,781	66.5	118,090	6,691	5.4	5.4	5.4
May	187,828	124,939	66.5	118,277	6,662	5.3	5.4	5.3
June	187,977	124,797	66.4	118,237	6,560	5.3	5.3	5.1
July	188,136	124,709	66.3	117,882	6,827	5.5	5.6	5.4
August	188,261	124,705	66.2	117,690	7,015	5.6	5.7	5.5
September	188,401	124,970	66.3	117,883	7,087	5.7	5.8	5.5
October	188,525	124,875	66.2	117,733	7,142	5.7	5.8	5.6
November	188,697	124,723	66.1	117,386	7,337	5.9	6.0	5.7
December	188,866	125,174	66.3	117,574	7,600	6.1	6.2	5.9

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

² The population figures are not adjusted for seasonal variation.

NOTE: Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	December 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
TOTAL											
16 years and over	188,866	124,630	66.0	117,287	7,343	5.9	64,236	26,692	9,358	3,699	24,486
16 to 19 years	13,618	6,772	49.7	5,709	1,063	15.7	8,844	438	5,959	36	411
16 to 17 years	6,606	2,567	38.9	2,105	461	18.0	4,040	91	3,802	5	141
18 to 19 years	7,009	4,205	60.0	3,604	601	14.3	2,804	347	2,157	30	270
20 to 24 years	17,782	13,566	78.3	12,408	1,158	8.5	4,216	1,408	2,132	102	574
25 to 54 years	106,301	88,813	83.5	84,194	4,619	5.2	17,488	11,645	1,233	1,552	3,057
25 to 34 years	42,611	35,670	83.7	33,494	2,176	6.1	6,941	4,704	817	361	1,060
25 to 29 years	20,593	17,147	83.3	16,018	1,129	6.6	3,446	2,253	508	142	544
30 to 34 years	22,018	18,523	84.1	17,476	1,047	5.7	3,495	2,450	310	218	516
35 to 44 years	38,023	32,369	85.1	30,841	1,528	4.7	5,654	3,806	343	583	923
35 to 39 years	20,112	17,038	84.7	18,174	864	5.1	3,073	2,172	219	252	431
40 to 44 years	17,912	15,331	85.6	14,667	664	4.3	2,581	1,634	124	331	491
45 to 54 years	25,667	20,773	80.9	19,859	914	4.4	4,893	3,136	74	609	1,075
45 to 49 years	14,048	11,790	83.9	11,237	553	4.7	2,257	1,494	52	263	449
50 to 54 years	11,619	9,983	77.3	8,622	361	4.0	2,636	1,642	21	346	626
55 to 64 years	21,230	12,048	56.7	11,639	409	3.4	9,182	4,364	25	792	4,001
55 to 59 years	10,593	7,212	68.1	6,952	260	3.6	3,381	1,863	18	392	1,108
60 to 64 years	10,637	4,836	45.5	4,687	149	3.1	5,801	2,501	7	400	2,893
65 years and over	29,837	3,432	11.5	3,337	95	2.8	26,505	8,837	9	1,216	16,443
65 to 69 years	10,068	1,994	19.8	1,934	60	3.0	8,074	2,822	4	309	4,939
70 to 74 years	8,036	913	11.4	886	27	2.9	7,123	2,393	-	243	4,487
75 years and over	11,833	525	4.4	517	8	1.6	11,308	3,622	5	665	7,017
Men											
16 years and over	90,083	66,112	75.6	63,788	4,324	6.3	21,971	669	4,634	2,082	14,586
16 to 19 years	6,875	3,537	51.5	2,908	629	17.8	3,338	15	3,078	23	221
16 to 17 years	3,378	1,325	39.2	1,043	282	21.3	2,053	8	1,975	5	66
18 to 19 years	3,497	2,212	63.3	1,864	348	15.7	1,285	8	1,103	19	155
20 to 24 years	8,621	7,136	82.8	6,450	686	9.8	1,485	38	1,090	77	281
25 to 54 years	52,089	48,579	93.3	45,898	2,681	5.5	3,510	283	455	1,045	1,727
25 to 34 years	20,989	19,704	93.9	18,420	1,284	6.5	1,285	108	383	258	557
25 to 29 years	10,103	9,421	93.3	8,744	678	7.2	681	63	246	98	274
30 to 34 years	10,886	10,282	94.5	9,676	606	5.9	604	45	117	159	263
35 to 44 years	18,828	17,570	93.3	16,713	857	4.9	1,058	105	73	367	514
35 to 39 years	9,689	9,386	94.9	8,883	503	5.4	504	55	47	154	247
40 to 44 years	8,738	8,184	93.7	7,930	354	4.3	554	49	25	212	287
45 to 54 years	12,473	11,305	90.6	10,765	540	4.8	1,168	70	20	421	657
45 to 49 years	6,844	6,335	92.6	6,007	328	5.2	509	30	18	186	275
50 to 54 years	5,629	4,970	88.3	4,758	212	4.3	659	40	2	235	382
55 to 64 years	10,031	6,902	68.8	6,628	273	4.0	3,129	105	9	447	2,567
55 to 59 years	5,058	4,105	81.2	3,931	174	4.2	953	42	7	236	667
60 to 64 years	4,973	2,797	56.2	2,698	99	3.5	2,176	63	2	211	1,900
65 years and over	12,467	1,959	15.7	1,904	55	2.8	10,508	227	2	490	9,789
65 to 69 years	4,570	1,123	24.6	1,086	37	3.3	3,447	57	2	155	3,232
70 to 74 years	3,521	512	14.5	498	14	2.7	3,009	66	-	117	2,826
75 years and over	4,377	324	7.4	320	4	1.3	4,052	104	-	217	3,731
Women											
16 years and over	98,783	56,518	57.2	53,499	3,020	5.3	42,265	26,023	4,725	1,617	9,900
16 to 19 years	6,741	3,235	48.0	2,801	433	13.4	3,506	422	2,881	12	191
16 to 17 years	3,228	1,242	38.5	1,062	179	14.5	1,967	83	1,828	1	75
18 to 19 years	3,513	1,993	56.7	1,739	254	12.7	1,520	339	1,053	11	116
20 to 24 years	9,161	6,431	70.2	5,958	473	7.3	2,731	1,370	1,042	28	292
25 to 54 years	54,212	40,234	74.2	38,296	1,938	4.8	13,978	11,362	778	508	1,330
25 to 34 years	21,622	15,967	73.8	15,074	892	5.8	5,656	4,595	454	103	503
25 to 29 years	10,490	7,726	73.6	7,274	452	5.8	2,764	2,190	260	44	270
30 to 34 years	11,132	8,241	74.0	7,600	441	5.3	2,892	2,405	194	59	234
35 to 44 years	19,395	14,799	76.3	14,128	671	4.5	4,596	3,701	270	218	409
35 to 39 years	10,222	7,653	74.9	7,291	361	4.7	2,570	2,116	172	97	165
40 to 44 years	9,173	7,147	77.9	6,837	310	4.3	2,027	1,585	99	119	224
45 to 54 years	13,194	9,468	71.8	9,094	374	4.0	3,726	3,066	54	188	418
45 to 49 years	7,204	5,455	75.7	5,230	225	4.1	1,749	1,464	35	77	173
50 to 54 years	5,990	4,013	67.0	3,864	149	3.7	1,977	1,601	19	112	244
55 to 64 years	11,199	5,146	46.0	5,010	136	2.6	6,053	4,259	16	345	1,433
55 to 59 years	5,535	3,107	56.1	3,021	86	2.8	2,428	1,821	11	156	441
60 to 64 years	5,864	2,039	36.0	1,989	50	2.4	3,624	2,438	5	168	993
65 years and over	17,470	1,473	8.4	1,433	40	2.7	15,997	8,609	7	727	6,654
65 to 69 years	5,498	871	15.6	848	23	2.6	4,627	2,764	2	154	1,707
70 to 74 years	4,516	401	8.9	368	13	3.2	4,114	2,328	-	126	1,661
75 years and over	7,456	201	2.7	196	4	2.1	7,256	3,518	5	447	3,286

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	December 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
WHITE											
16 years and over	160,942	106,948	66.5	101,505	5,443	5.1	53,994	22,867	7,039	2,774	21,314
16 to 19 years	10,903	5,827	53.4	5,063	764	13.1	5,076	321	4,412	27	316
16 to 17 years	5,245	2,234	42.6	1,883	351	15.7	3,011	77	2,824	5	106
18 to 19 years	5,659	3,594	63.5	3,181	413	11.5	2,065	244	1,588	23	211
20 to 24 years	14,670	11,513	78.5	10,722	792	6.9	3,156	1,022	1,681	69	385
25 to 54 years	90,059	75,938	84.3	72,470	3,467	4.6	14,122	9,715	923	1,131	2,352
25 to 34 years	35,655	30,188	84.7	28,619	1,570	5.2	5,466	3,850	595	255	767
25 to 29 years	17,150	14,489	84.5	13,691	798	5.5	2,861	1,805	365	103	388
30 to 34 years	18,505	15,699	84.8	14,928	771	4.9	2,806	2,045	230	152	379
35 to 44 years	32,382	27,795	85.8	26,641	1,155	4.2	4,587	3,187	270	426	704
35 to 39 years	17,013	14,506	85.3	13,873	633	4.4	2,507	1,814	167	189	337
40 to 44 years	15,369	13,290	86.5	12,768	521	3.9	2,080	1,373	102	237	367
45 to 54 years	22,022	17,954	81.5	17,211	743	4.1	4,069	2,678	58	451	881
45 to 49 years	12,067	10,166	84.3	9,722	444	4.4	1,900	1,281	41	199	379
50 to 54 years	9,956	7,787	78.2	7,489	298	3.8	2,169	1,398	17	251	502
55 to 64 years	18,465	10,580	57.3	10,248	333	3.1	7,885	3,811	16	602	3,455
55 to 59 years	9,121	6,290	69.0	6,087	203	3.2	2,831	1,616	13	302	900
60 to 64 years	9,344	4,291	45.9	4,160	130	3.0	5,053	2,195	3	300	2,555
65 years and over	26,845	3,090	11.5	3,003	87	2.8	23,755	7,997	7	945	14,806
65 to 69 years	8,981	1,805	20.1	1,750	55	3.0	7,176	2,559	4	223	4,389
70 to 74 years	7,212	827	11.5	802	26	3.1	6,384	2,169	-	198	4,017
75 years and over	10,652	457	4.3	451	7	1.4	10,195	3,269	3	524	6,400
Men											
16 years and over	77,377	59,102	76.4	55,781	3,321	5.6	16,275	501	3,492	1,586	12,697
16 to 19 years	5,509	3,031	55.0	2,568	463	15.3	2,476	5	2,284	23	166
16 to 17 years	2,686	1,148	42.8	932	217	18.9	1,537	5	1,481	5	47
18 to 19 years	2,823	1,882	66.7	1,636	246	13.1	941	-	803	18	119
20 to 24 years	7,202	6,080	84.4	5,587	493	8.1	1,123	12	881	46	183
25 to 54 years	44,642	42,066	94.2	39,975	2,091	5.0	2,576	206	321	772	1,278
25 to 34 years	17,771	18,880	95.0	15,906	974	5.8	891	73	254	184	380
25 to 29 years	8,518	8,044	94.5	7,528	515	6.4	472	45	177	70	180
30 to 34 years	9,255	8,836	95.5	8,377	459	5.2	419	28	78	114	199
35 to 44 years	16,072	15,309	95.3	14,626	683	4.5	763	73	48	262	381
35 to 39 years	8,474	8,110	95.7	7,721	389	4.8	365	33	30	107	194
40 to 44 years	7,598	7,199	94.8	6,905	295	4.1	398	40	18	154	166
45 to 54 years	10,799	9,877	91.5	9,444	434	4.4	922	60	18	327	517
45 to 49 years	5,934	5,530	93.2	5,265	265	4.8	404	24	17	143	220
50 to 54 years	4,865	4,348	89.4	4,178	169	3.9	518	35	2	183	297
55 to 64 years	8,799	6,135	69.7	5,912	223	3.6	2,664	77	5	352	2,229
55 to 59 years	4,386	3,637	82.9	3,501	136	3.7	750	32	3	181	534
60 to 64 years	4,412	2,498	56.6	2,411	87	3.5	1,914	46	2	171	1,695
65 years and over	11,225	1,791	16.0	1,739	52	2.9	9,434	200	2	392	8,841
65 to 69 years	4,104	1,029	25.1	995	34	3.3	3,075	50	2	114	2,910
70 to 74 years	3,160	468	14.8	453	14	3.1	2,692	62	-	100	2,529
75 years and over	3,961	294	7.4	291	4	1.3	3,667	88	-	178	3,402
Women											
16 years and over	83,565	47,847	57.3	45,725	2,122	4.4	35,719	22,366	3,547	1,189	8,617
16 to 19 years	5,395	2,797	51.8	2,495	301	10.8	2,598	316	2,128	4	150
16 to 17 years	2,559	1,085	42.4	951	134	12.4	1,474	72	1,343	-	59
18 to 19 years	2,836	1,711	60.4	1,544	167	9.8	1,124	243	785	4	92
20 to 24 years	7,468	5,434	72.8	5,135	299	5.5	2,034	1,010	800	23	201
25 to 54 years	45,417	33,872	74.6	32,495	1,376	4.1	11,546	9,510	602	359	1,074
25 to 34 years	17,884	13,309	74.4	12,713	596	4.5	4,575	3,777	341	71	387
25 to 29 years	8,634	6,445	74.7	6,162	283	4.4	2,189	1,760	188	34	208
30 to 34 years	9,250	6,863	74.2	6,551	312	4.6	2,387	2,017	153	37	180
35 to 44 years	16,310	12,487	76.6	12,015	472	3.8	3,823	3,114	222	164	323
35 to 39 years	8,539	6,396	74.9	6,152	245	3.8	2,142	1,781	137	81	142
40 to 44 years	7,772	6,090	78.4	5,863	227	3.7	1,681	1,333	84	83	181
45 to 54 years	11,223	8,076	72.0	7,767	309	3.8	3,147	2,619	40	124	364
45 to 49 years	6,132	4,637	75.6	4,457	180	3.9	1,496	1,256	25	58	159
50 to 54 years	5,091	3,440	67.6	3,310	129	3.8	1,651	1,363	15	68	205
55 to 64 years	9,666	4,446	46.0	4,336	110	2.5	5,221	3,734	12	250	1,226
55 to 59 years	4,734	2,653	56.0	2,587	67	2.5	2,081	1,584	10	120	366
60 to 64 years	4,932	1,793	36.3	1,749	43	2.4	3,139	2,150	1	129	859
65 years and over	15,620	1,299	8.3	1,263	36	2.7	14,321	7,797	6	553	5,965
65 to 69 years	4,877	776	15.9	755	21	2.7	4,101	2,509	3	110	1,479
70 to 74 years	4,052	360	8.9	348	12	3.2	3,692	2,107	-	97	1,488
75 years and over	6,691	163	2.4	160	3	1.8	6,528	3,181	3	346	2,998

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	December 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
BLACK											
16 years and over	21,448	13,478	62.8	11,859	1,619	12.0	7,970	2,925	1,663	812	2,571
16 to 19 years	2,134	751	35.2	488	263	35.0	1,382	101	1,189	8	84
16 to 17 years	1,046	262	25.1	162	101	38.3	783	12	738	1	32
18 to 19 years	1,088	489	44.9	327	162	33.2	599	88	451	7	53
20 to 24 years	2,436	1,613	66.2	1,279	334	20.7	823	327	297	29	170
25 to 54 years	12,200	9,714	79.6	8,758	955	9.8	2,486	1,397	171	365	553
25 to 34 years	5,355	4,253	79.4	3,733	521	12.2	1,101	646	117	88	250
25 to 29 years	2,660	2,064	77.8	1,779	285	13.8	596	354	76	32	135
30 to 34 years	2,694	2,189	81.3	1,954	235	10.8	505	293	41	58	115
35 to 44 years	4,172	3,399	81.5	3,093	306	9.0	773	423	44	146	160
35 to 39 years	2,311	1,903	82.4	1,708	195	10.2	408	247	33	59	69
40 to 44 years	1,862	1,496	80.4	1,385	111	7.4	366	176	11	88	91
45 to 54 years	2,673	2,061	77.1	1,932	129	6.3	612	327	10	131	143
45 to 49 years	1,420	1,170	82.4	1,064	86	7.4	250	150	7	50	44
50 to 54 years	1,253	891	71.2	849	43	4.8	361	177	3	81	100
55 to 64 years	2,146	1,116	52.0	1,058	58	5.2	1,029	417	4	164	444
55 to 59 years	1,136	692	60.9	646	46	6.6	445	188	-	78	179
60 to 64 years	1,009	425	42.1	412	13	3.1	585	229	4	87	265
65 years and over	2,533	283	11.2	275	8	2.8	-2,250	684	1	246	1,319
65 to 69 years	879	180	18.2	156	4	2.8	719	212	-	79	429
70 to 74 years	678	70	10.3	69	1	(¹)	608	184	-	39	385
75 years and over	976	53	5.5	51	2	(¹)	923	288	2	127	506
Men											
16 years and over	9,638	6,729	69.8	5,887	641	12.5	2,909	134	798	431	1,546
16 to 19 years	1,060	389	36.7	246	142	36.6	672	10	613	-	48
16 to 17 years	528	139	26.4	81	58	41.6	389	3	368	-	17
18 to 19 years	532	249	46.9	165	84	33.8	283	7	245	-	31
20 to 24 years	1,108	836	75.5	664	173	20.6	271	24	132	26	90
25 to 54 years	5,476	4,788	87.4	4,303	485	10.1	688	55	53	232	348
25 to 34 years	2,428	2,148	88.5	1,883	265	12.4	279	32	40	60	148
25 to 29 years	1,206	1,055	87.4	915	140	13.2	152	16	31	22	83
30 to 34 years	1,221	1,084	89.6	968	126	11.5	127	16	10	37	65
35 to 44 years	1,865	1,643	88.1	1,499	144	8.8	222	15	13	95	99
35 to 39 years	1,033	939	90.6	841	98	10.4	95	8	6	43	37
40 to 44 years	831	704	84.7	658	46	6.5	127	7	6	52	62
45 to 54 years	1,183	997	84.2	921	76	7.6	187	8	-	77	101
45 to 49 years	830	559	67.2	512	47	8.4	71	4	-	33	34
50 to 54 years	553	438	79.2	409	29	6.6	115	5	-	44	67
55 to 64 years	969	579	59.7	541	38	6.6	390	23	-	84	283
55 to 59 years	528	353	66.9	322	31	8.9	175	10	-	50	115
60 to 64 years	441	226	51.2	219	7	3.1	216	13	-	34	168
65 years and over	1,025	137	13.4	134	3	2.1	888	21	-	89	777
65 to 69 years	380	76	20.0	74	2	2.7	304	6	-	40	258
70 to 74 years	303	36	11.9	36	-	(¹)	267	2	-	14	251
75 years and over	342	25	7.2	24	1	(¹)	317	13	-	35	269
Women											
16 years and over	11,810	6,749	57.1	5,971	777	11.5	5,061	2,791	865	381	1,025
16 to 19 years	1,073	363	33.8	242	121	33.3	711	90	576	8	37
18 to 17 years	517	123	23.8	81	43	34.5	394	9	370	1	14
18 to 19 years	556	239	43.1	161	78	32.6	316	81	206	7	22
20 to 24 years	1,326	777	58.5	615	162	20.8	551	302	165	3	80
25 to 54 years	6,724	4,926	73.3	4,456	470	9.5	1,798	1,341	118	133	206
25 to 34 years	2,927	2,105	71.9	1,850	255	12.1	822	615	77	28	102
25 to 29 years	1,454	1,009	69.4	864	146	14.4	445	338	45	9	52
30 to 34 years	1,473	1,096	74.4	986	110	10.0	377	277	32	19	50
35 to 44 years	2,308	1,756	76.1	1,595	162	9.2	551	408	31	51	61
35 to 39 years	1,277	964	75.5	867	97	10.1	313	239	26	15	32
40 to 44 years	1,031	792	76.9	728	65	8.2	238	168	5	36	29
45 to 54 years	1,489	1,064	71.5	1,011	53	5.0	425	319	10	54	42
45 to 49 years	790	611	77.3	572	39	6.4	179	146	7	17	9
50 to 54 years	699	453	64.8	439	14	3.1	246	173	4	37	33
55 to 64 years	1,176	537	45.7	517	20	3.7	639	394	4	80	161
55 to 59 years	608	339	55.6	324	14	4.2	270	178	-	28	64
60 to 64 years	568	199	35.0	193	6	3.0	369	216	4	53	97
65 years and over	1,509	146	9.7	141	5	3.4	1,362	663	1	157	541
65 to 69 years	499	84	16.8	81	2	2.9	415	206	-	39	171
70 to 74 years	375	34	9.0	32	1	(¹)	341	182	-	26	134
75 years and over	635	29	4.5	27	1	(¹)	606	275	2	92	237

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age and sex	December 1990								
	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL									
16 years and over	27,924	17,682	63.3	15,782	205	15,577	1,900	10.7	10,242
16 to 19 years	2,712	944	34.8	646	12	634	299	31.6	1,768
16 to 17 years	1,362	333	24.4	223	4	219	110	33.0	1,029
18 to 19 years	1,351	611	45.3	423	8	415	189	30.8	739
20 to 24 years	3,113	2,053	66.0	1,687	22	1,664	366	17.8	1,060
25 to 54 years	16,241	12,875	79.3	11,724	123	11,600	1,151	8.9	3,366
25 to 34 years	6,956	5,482	78.8	4,875	47	4,828	607	11.1	1,475
25 to 29 years	3,443	2,658	77.2	2,327	22	2,305	331	12.5	785
30 to 34 years	3,514	2,824	80.4	2,548	24	2,524	276	9.8	690
35 to 44 years	5,641	4,574	81.1	4,201	48	4,152	373	8.2	1,067
35 to 39 years	3,099	2,532	81.7	2,302	18	2,284	231	9.1	566
40 to 44 years	2,542	2,041	80.3	1,899	30	1,869	142	7.0	501
45 to 54 years	3,644	2,820	77.4	2,648	29	2,619	172	6.1	824
45 to 49 years	1,981	1,624	82.0	1,515	19	1,496	109	6.7	357
50 to 54 years	1,663	1,196	71.9	1,133	10	1,123	62	5.2	467
55 to 64 years	2,765	1,467	53.1	1,391	31	1,360	76	5.2	1,297
55 to 59 years	1,472	922	62.6	865	17	847	57	6.2	550
60 to 64 years	1,293	545	42.2	527	14	513	19	3.5	747
65 years and over	3,092	342	11.1	334	16	318	8	2.4	2,750
65 to 69 years	1,088	189	17.4	183	7	176	5	2.9	899
70 to 74 years	824	86	10.4	85	4	81	1	1.1	739
75 years and over	1,180	68	5.7	66	5	61	2	(¹)	1,113
Men									
16 years and over	12,706	9,011	70.9	8,008	171	7,836	1,003	11.1	3,695
16 to 19 years	1,366	506	37.1	340	12	328	167	32.9	860
16 to 17 years	692	176	25.5	112	4	108	65	36.7	516
18 to 19 years	674	330	49.0	228	8	220	102	30.9	344
20 to 24 years	1,419	1,056	74.4	864	22	842	193	18.2	363
25 to 54 years	7,447	6,513	87.5	5,923	92	5,831	590	9.1	934
25 to 34 years	3,218	2,824	87.7	2,514	32	2,481	310	11.0	394
25 to 29 years	1,587	1,377	86.8	1,215	15	1,200	162	11.8	210
30 to 34 years	1,631	1,446	88.7	1,299	17	1,281	148	10.2	185
35 to 44 years	2,556	2,261	88.5	2,088	41	2,047	173	7.7	294
35 to 39 years	1,415	1,276	90.2	1,162	18	1,144	114	9.0	139
40 to 44 years	1,141	985	86.4	926	23	903	59	6.0	156
45 to 54 years	1,673	1,428	85.3	1,321	19	1,303	106	7.5	246
45 to 49 years	910	806	88.5	742	9	733	64	7.9	104
50 to 54 years	764	622	81.5	580	10	570	43	6.9	141
55 to 64 years	1,232	767	62.2	717	29	688	50	6.6	465
55 to 59 years	671	468	69.8	430	16	415	38	8.1	203
60 to 64 years	561	299	53.2	286	13	273	13	4.2	262
65 years and over	1,242	168	13.5	164	16	148	4	2.2	1,074
65 to 69 years	466	94	20.1	90	7	83	4	3.9	372
70 to 74 years	360	44	12.2	45	5	40	-	(¹)	316
75 years and over	415	30	7.3	30	5	25	1	(¹)	385
Women									
16 years and over	15,218	8,671	57.0	7,774	34	7,740	897	10.3	6,546
16 to 19 years	1,346	438	32.5	306	-	306	132	30.1	909
16 to 17 years	669	156	23.4	111	-	111	45	29.0	513
18 to 19 years	677	282	41.6	195	-	195	87	30.8	396
20 to 24 years	1,694	997	58.8	823	-	823	174	17.4	697
25 to 54 years	8,794	6,362	72.3	5,801	32	5,769	562	8.8	2,432
25 to 34 years	3,738	2,658	71.1	2,361	14	2,347	297	11.2	1,080
25 to 29 years	1,856	1,280	69.0	1,112	7	1,105	169	13.2	575
30 to 34 years	1,883	1,378	73.2	1,249	7	1,242	128	9.3	505
35 to 44 years	3,085	2,313	75.0	2,113	7	2,106	200	8.6	773
35 to 39 years	1,684	1,256	74.6	1,140	1	1,139	116	9.3	427
40 to 44 years	1,402	1,056	75.4	973	7	966	83	7.9	345
45 to 54 years	1,971	1,392	70.6	1,327	10	1,316	65	4.7	579
45 to 49 years	1,072	818	76.4	773	10	763	45	5.5	253
50 to 54 years	899	573	63.6	553	-	553	20	3.5	326
55 to 64 years	1,533	700	45.7	675	3	672	26	3.7	832
55 to 59 years	801	454	56.6	434	2	433	19	4.3	347
60 to 64 years	732	247	33.7	240	1	240	6	2.6	485
65 years and over	1,850	174	9.4	170	-	170	4	2.5	1,676
65 to 69 years	622	95	15.3	93	-	93	2	1.8	526
70 to 74 years	464	42	9.0	40	-	41	1	(¹)	422
75 years and over	765	37	4.9	36	-	36	1	(¹)	727

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
TOTAL								
Civilian noninstitutional population	187,165	188,866	82,055	83,208	91,042	92,042	14,067	13,616
Civilian labor force	123,998	124,630	63,814	64,575	52,761	53,284	7,424	6,772
Percent of population	66.3	66.0	77.8	77.6	58.0	57.9	52.8	49.7
Employed	117,698	117,287	60,862	60,881	50,459	50,697	6,377	5,709
Agriculture	2,862	2,943	2,119	2,205	551	578	192	160
Nonagricultural industries	114,836	114,344	58,743	58,676	49,908	50,119	6,185	5,549
Unemployed	6,300	7,343	2,952	3,695	2,302	2,586	1,047	1,063
Unemployment rate	5.1	5.9	4.6	5.7	4.4	4.9	14.1	15.7
Not in labor force	63,167	64,236	18,241	18,633	38,282	38,759	6,644	6,844
White								
Civilian noninstitutional population	159,832	160,942	71,003	71,868	77,483	78,171	11,346	10,903
Civilian labor force	106,406	106,948	55,556	56,071	44,574	45,050	6,277	5,827
Percent of population	66.6	66.5	78.2	78.0	57.5	57.6	55.3	53.4
Employed	101,793	101,505	53,338	53,213	42,937	43,229	5,518	5,063
Agriculture	2,667	2,738	1,954	2,046	525	544	188	148
Nonagricultural industries	99,126	98,768	51,383	51,167	42,412	42,685	5,330	4,916
Unemployed	4,613	5,443	2,218	2,858	1,637	1,821	759	764
Unemployment rate	4.3	5.1	4.0	5.1	3.7	4.0	12.1	13.1
Not in labor force	53,426	53,994	15,448	15,797	32,909	33,121	5,069	5,076
Black								
Civilian noninstitutional population	21,164	21,448	8,434	8,577	10,564	10,737	2,166	2,134
Civilian labor force	13,487	13,478	6,206	6,340	6,369	6,386	912	751
Percent of population	63.7	62.8	73.6	73.9	60.3	59.5	42.1	35.2
Employed	11,989	11,859	5,554	5,641	5,779	5,729	655	488
Agriculture	123	127	115	101	8	20	-	7
Nonagricultural industries	11,866	11,731	5,439	5,540	5,771	5,710	656	482
Unemployed	1,498	1,619	652	699	590	657	257	263
Unemployment rate	11.1	12.0	10.5	11.0	9.3	10.3	28.1	35.0
Not in labor force	7,677	7,970	2,228	2,237	4,195	4,351	1,254	1,382

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED

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

REFERENCE DEPT.
ERIE COUNTY LIBRARY SYSTEM

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	December 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	15,571	7,410	47.6	6,660	1,222	5,437	750	109	641	10.1
16 to 19 years	10,378	4,368	42.1	3,766	312	3,454	603	61	542	13.6
20 to 24 years	5,193	3,041	58.6	2,894	911	1,983	147	48	99	4.8
High school	7,616	2,968	39.0	2,469	133	2,336	499	37	463	16.8
College	7,955	4,441	55.8	4,190	1,089	3,102	251	72	179	5.6
Full-time students	6,845	3,464	50.6	3,252	472	2,780	212	56	156	6.1
Part-time students	1,110	977	88.0	938	616	322	39	16	23	4.0
Men, 16 to 24 years	7,875	3,692	46.9	3,246	642	2,605	446	78	368	12.1
16 to 19 years	5,304	2,214	41.7	1,850	173	1,677	363	45	318	16.4
20 to 24 years	2,570	1,479	57.5	1,396	468	928	83	33	50	5.6
High school	3,972	1,557	39.2	1,251	88	1,163	307	28	279	19.7
College	3,903	2,135	54.7	1,995	554	1,442	140	50	89	6.5
Full-time students	3,381	1,655	49.0	1,538	242	1,295	118	40	78	7.1
Part-time students	522	480	92.0	458	311	146	22	11	11	4.6
Women, 16 to 24 years	7,696	3,717	48.3	3,414	581	2,833	304	31	273	8.2
16 to 19 years	5,074	2,155	42.5	1,916	138	1,777	239	15	224	11.1
20 to 24 years	2,623	1,562	59.6	1,498	442	1,056	64	15	49	4.1
High school	3,844	1,411	38.7	1,219	46	1,173	193	9	184	13.6
College	4,052	2,306	56.9	2,195	535	1,660	111	22	89	4.8
Full-time students	3,464	1,809	52.2	1,715	230	1,484	94	16	78	5.2
Part-time students	588	497	84.5	480	305	175	17	6	11	3.4
White										
Total, 16 to 24 years	12,601	6,404	50.8	5,860	1,067	4,792	544	65	480	8.5
16 to 19 years	8,286	3,808	46.0	3,374	277	3,097	434	35	399	11.4
20 to 24 years	4,315	2,596	60.2	2,486	790	1,696	110	30	81	4.3
Men	6,359	3,157	49.7	2,830	554	2,276	328	49	279	10.4
Women	6,243	3,247	52.0	3,030	514	2,517	217	16	201	6.7
High school	5,910	2,543	43.0	2,183	110	2,074	359	20	339	14.1
College	6,691	3,862	57.7	3,676	958	2,719	185	44	141	4.8
Full-time students	5,753	3,014	52.4	2,862	414	2,448	152	29	123	5.1
Part-time students	938	848	90.4	815	544	271	33	15	18	3.9
Black										
Total, 16 to 24 years	2,169	713	32.9	533	110	422	180	42	138	25.3
16 to 19 years	1,592	421	26.5	276	18	257	146	26	120	34.6
20 to 24 years	577	291	50.5	257	92	165	35	16	18	11.9
Men	1,097	367	33.5	269	62	207	98	27	71	26.7
Women	1,072	345	32.2	263	48	215	82	15	67	23.8
High school	1,311	320	24.4	200	15	185	120	15	105	37.5
College	858	393	45.7	332	95	237	60	27	34	15.3
Full-time students	731	298	40.8	243	43	200	55	26	29	18.4
Part-time students	128	94	74.0	89	52	37	5	1	4	5.5
Hispanic origin										
Total, 16 to 24 years	1,329	548	41.2	462	136	326	86	10	75	15.7
16 to 19 years	981	334	34.0	258	39	219	75	8	67	22.6
20 to 24 years	348	215	61.6	204	97	107	11	2	8	4.9
Men	693	304	43.9	249	73	176	55	11	44	18.2
Women	636	244	38.4	214	64	150	31	-	31	12.5
High school	860	282	30.5	197	31	167	65	3	63	24.8
College	469	286	61.0	265	106	160	21	8	13	7.2
Full-time students	354	179	50.6	161	38	123	18	6	12	10.0
Part-time students	115	107	92.7	104	67	37	3	2	1	2.7

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	December 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL NOT ENROLLED										
Total, 16 to 24 years	15,827	12,928	81.7	11,457	9,763	1,895	1,471	1,346	125	11.4
16 to 19 years	3,238	2,403	74.2	1,943	1,373	570	460	410	50	19.1
20 to 24 years	12,589	10,525	83.6	9,514	8,390	1,124	1,011	936	75	9.6
Less than 4 years of high school	3,783	2,375	62.8	1,855	1,458	397	520	474	46	21.9
4 years of high school	8,140	6,886	84.6	6,121	5,190	930	768	697	68	11.1
1 to 3 years of college	2,563	2,370	92.5	2,229	1,958	270	142	132	10	6.0
4 years of college or more	1,341	1,297	96.7	1,253	1,156	96	141	44	1	3.4
Men, 16 to 24 years	7,621	6,980	91.6	6,112	5,472	640	869	816	53	12.4
16 to 19 years	1,570	1,324	84.3	1,057	814	243	266	244	22	20.1
20 to 24 years	6,051	5,657	93.5	5,054	4,658	397	602	572	31	10.7
Less than 4 years of high school	1,938	1,608	83.1	1,250	1,052	198	359	343	16	22.3
4 years of high school	3,986	3,734	93.7	3,314	2,969	344	420	391	29	11.3
1 to 3 years of college	1,139	1,083	95.1	1,011	945	66	72	65	7	6.7
4 years of college or more	560	555	99.1	537	506	32	17	17	-	3.1
Women, 18 to 24 years	8,206	5,948	72.5	5,346	4,291	1,055	602	530	72	10.1
16 to 19 years	1,668	1,080	64.7	888	559	327	194	168	28	18.0
20 to 24 years	6,538	4,868	74.5	4,460	3,732	728	408	364	44	8.4
Less than 4 years of high school	1,847	767	41.5	606	406	199	161	131	30	21.0
4 years of high school	4,154	3,152	75.9	2,807	2,221	588	345	306	39	11.0
1 to 3 years of college	1,424	1,287	90.4	1,218	1,013	205	69	67	2	5.4
4 years of college or more	781	742	95.0	715	651	65	26	26	1	3.6
White										
Total, 16 to 24 years	12,972	10,936	84.3	9,925	8,524	1,402	1,011	926	85	9.2
16 to 19 years	2,617	2,019	77.1	1,689	1,229	460	330	296	34	16.3
20 to 24 years	10,354	8,917	86.1	8,236	7,294	942	681	630	52	7.6
Men	6,352	5,953	93.7	5,325	4,805	520	628	592	36	10.6
Women	6,619	4,983	75.3	4,600	3,719	881	383	334	50	7.7
Less than 4 years of high school	3,081	2,053	66.6	1,670	1,326	344	384	354	30	18.7
4 years of high school	6,495	5,864	87.2	5,178	4,437	742	486	435	51	8.6
1 to 3 years of college	2,187	2,041	93.3	1,933	1,705	227	108	104	4	5.3
4 years of college or more	1,209	1,178	97.4	1,145	1,056	89	34	33	1	2.9
Black										
Total, 16 to 24 years	2,400	1,652	68.8	1,235	991	244	417	381	36	25.2
16 to 19 years	541	330	80.9	213	118	94	117	102	15	35.5
20 to 24 years	1,859	1,322	71.1	1,022	872	150	300	279	21	22.7
Men	1,071	858	80.1	641	542	99	217	200	17	25.3
Women	1,330	794	59.7	594	449	145	200	181	19	25.2
Less than 4 years of high school	607	276	45.4	150	106	44	126	111	14	45.8
4 years of high school	1,398	1,027	73.5	771	615	156	256	240	16	24.9
1 to 3 years of college	309	288	86.9	240	204	36	28	22	6	10.4
4 years of college or more	87	81	93.0	73	66	8	7	7	-	8.8
Hispanic origin										
Total, 16 to 24 years	2,085	1,502	72.1	1,306	1,105	201	197	178	19	13.1
16 to 19 years	459	281	81.1	228	163	66	52	49	4	18.6
20 to 24 years	1,625	1,222	75.2	1,077	942	135	144	129	15	11.8
Men	1,080	971	89.9	836	743	93	135	127	8	13.9
Women	1,005	531	52.9	470	362	108	61	50	11	11.6
Less than 4 years of high school	1,094	690	63.1	575	503	73	115	108	7	16.7
4 years of high school	746	587	78.8	527	416	112	60	50	10	10.2
1 to 3 years of college	196	182	93.1	163	151	12	19	17	2	10.4
4 years of college or more	49	43	(²)	40	38	4	3	3	-	(²)

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

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

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

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

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Dec. 1989	Dec. 1990	Total		Employed		Unemployed			
			Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Number		Percent of labor force	
							Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,539	7,709	6,899	6,984	6,604	6,588	294	396	4.3	5.7
35 to 49 years	6,503	6,501	6,185	6,107	5,937	5,746	249	361	4.0	5.9
35 to 39 years	1,586	1,295	1,505	1,205	1,447	1,106	57	99	3.8	8.2
40 to 44 years	3,313	3,229	3,177	3,054	3,038	2,893	139	160	4.4	5.3
45 to 49 years	1,604	1,977	1,503	1,848	1,451	1,747	52	101	3.5	5.5
50 years and over	1,036	1,208	713	877	668	842	46	35	6.4	4.0
NONVETERANS										
Total, 35 to 49 years	16,770	17,765	15,711	16,678	15,145	15,907	566	771	3.6	4.6
35 to 39 years	7,650	8,149	7,237	7,755	6,953	7,389	284	366	3.9	4.7
40 to 44 years	4,968	5,400	4,651	5,031	4,520	4,839	130	192	2.8	3.8
45 to 49 years	4,152	4,217	3,824	3,892	3,672	3,679	152	213	4.0	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; published data

are limited to those 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	December 1990							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time		
TOTAL								
Total, 16 years and over	96,790	94,646	2,144	20,497	17,143	3,353	6,083	1,260
16 to 19 years	1,685	1,595	90	4,024	3,644	380	471	592
16 to 17 years	136	119	17	1,970	1,882	88	85	376
18 to 19 years	1,549	1,476	73	2,055	1,762	293	385	216
20 years and over	95,106	93,052	2,054	16,472	13,499	2,973	5,612	668
20 to 24 years	9,301	8,989	311	3,108	2,566	541	984	174
25 years and over	85,805	84,062	1,743	13,365	10,933	2,432	4,628	495
25 to 54 years	74,515	73,046	1,468	9,679	7,632	2,047	4,247	372
55 years and over	11,291	11,016	274	3,685	3,301	384	381	123
Men, 16 years and over	57,059	55,723	1,336	6,729	5,314	1,415	3,746	578
16 to 19 years	987	916	71	1,920	1,732	188	289	340
20 years and over	56,072	54,807	1,265	4,809	3,582	1,227	3,457	237
20 to 24 years	5,126	4,908	218	1,324	1,089	235	605	81
25 years and over	50,946	49,899	1,047	3,484	2,493	991	2,852	157
25 to 54 years	43,936	43,050	886	1,962	1,132	830	2,588	92
55 years and over	7,010	6,849	161	1,522	1,361	161	264	64
Women, 16 years and over	39,731	38,923	808	13,767	11,829	1,938	2,337	683
16 to 19 years	697	679	18	2,104	1,911	193	181	252
20 years and over	39,034	38,244	790	11,663	9,918	1,746	2,155	431
20 to 24 years	4,175	4,081	94	1,783	1,478	306	379	93
25 years and over	34,859	34,163	696	9,880	8,440	1,440	1,776	338
25 to 54 years	30,578	29,996	582	7,718	6,500	1,217	1,659	279
55 years and over	4,281	4,167	114	2,163	1,940	223	117	59
White								
Men, 16 years and over	50,045	48,893	1,152	5,735	4,648	1,087	2,878	443
16 to 19 years	883	813	70	1,685	1,533	152	211	252
20 years and over	49,162	48,080	1,083	4,050	3,116	935	2,667	191
20 to 24 years	4,475	4,291	184	1,111	934	178	430	63
25 years and over	44,687	43,789	898	2,939	2,182	757	2,237	128
25 to 54 years	38,414	37,655	760	1,561	934	627	2,018	73
55 years and over	6,273	6,134	138	1,378	1,248	130	219	56
Women, 16 years and over	33,448	32,785	663	12,276	10,678	1,598	1,580	542
16 to 19 years	624	606	17	1,872	1,720	152	120	181
20 years and over	32,825	32,179	646	10,404	8,959	1,446	1,460	361
20 to 24 years	3,609	3,534	75	1,526	1,280	246	229	70
25 years and over	29,216	28,645	571	8,879	7,679	1,200	1,231	291
25 to 54 years	25,544	25,070	474	6,951	5,926	1,026	1,138	238
55 years and over	3,672	3,575	97	1,927	1,753	174	93	53
Black								
Men, 16 years and over	5,184	5,041	142	704	438	266	730	112
16 to 19 years	76	74	2	171	139	32	72	71
20 years and over	5,108	4,968	140	533	299	233	658	41
20 to 24 years	529	499	30	135	92	43	155	18
25 years and over	4,579	4,469	111	398	207	191	503	24
25 to 54 years	4,022	3,924	97	281	117	165	469	16
55 years and over	558	544	13	117	91	26	34	8
Women, 16 years and over	4,853	4,728	125	1,118	830	288	654	123
16 to 19 years	61	60	1	181	145	36	56	65
20 years and over	4,792	4,668	125	937	685	252	598	59
20 to 24 years	435	421	15	180	130	50	140	22
25 years and over	4,357	4,247	110	757	556	202	458	37
25 to 54 years	3,893	3,798	95	563	404	159	438	32
55 years and over	464	449	15	194	151	43	20	5

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	December 1990									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over ¹	99,387	66.3	93,592	5,795	5.8	50,453	21,658	8,464	2,557	17,774
Husbands	40,037	77.9	38,543	1,494	3.7	11,349	267	197	972	9,913
With employed wife	26,613	91.5	25,740	873	3.3	2,479	124	114	445	1,796
With unemployed wife	1,036	92.1	893	142	13.7	89	-	1	18	70
With wife not in labor force	12,389	58.5	11,910	479	3.9	8,781	143	82	510	8,047
Wives	30,216	58.8	29,092	1,124	3.7	21,170	16,497	436	438	3,800
With employed husband	26,633	69.1	25,740	893	3.4	11,910	10,451	378	161	921
With unemployed husband	1,015	68.0	873	142	14.0	479	418	10	17	33
With husband not in labor force	2,567	22.6	2,479	89	3.4	8,781	5,628	48	260	2,846
Relatives in married-couple families	12,279	60.8	11,044	1,234	10.1	7,909	785	5,454	341	1,330
16 to 19 years	4,251	48.9	3,730	521	12.3	4,438	95	4,132	14	197
20 to 24 years	4,487	74.2	4,112	375	8.4	1,560	151	1,193	36	181
25 years and over	3,540	64.9	3,202	338	9.5	1,911	539	129	291	952
Women who maintain families	7,046	61.6	6,464	582	8.3	4,392	2,897	277	243	974
Relatives in families maintained by women	5,761	59.3	4,786	975	16.9	3,950	830	1,731	375	1,014
16 to 19 years	1,298	44.6	970	329	25.3	1,610	115	1,342	13	140
20 to 24 years	1,515	69.6	1,271	243	16.1	660	156	319	31	155
25 years and over	2,948	63.7	2,545	403	13.7	1,680	559	70	331	719
Men who maintain families	2,241	77.6	2,071	171	7.6	647	62	41	106	439
Relatives in families maintained by men	1,808	63.6	1,592	215	11.9	1,036	320	328	82	305
16 to 19 years	300	55.0	236	64	21.4	245	14	205	2	24
20 to 24 years	449	71.3	408	41	9.2	181	36	99	11	34
25 years and over	1,058	63.4	948	110	10.4	610	270	24	69	247

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
Total, 16 years and over	3,565	4,324	5.3	6.3	2,735	3,020	4.9	5.3
Married, spouse present	1,348	1,678	3.2	3.9	1,101	1,203	3.6	3.9
Widowed, divorced, or separated	436	613	6.3	8.4	609	720	5.4	6.3
Single (never married)	1,781	2,034	9.7	11.1	1,025	1,097	7.3	7.9
White, 16 years and over	2,669	3,321	4.5	5.6	1,944	2,122	4.1	4.4
Married, spouse present	1,123	1,406	3.0	3.7	909	1,001	3.3	3.6
Widowed, divorced, or separated	330	475	5.7	7.8	417	502	4.6	5.5
Single (never married)	1,217	1,439	8.1	9.5	618	619	5.5	5.6
Black, 16 years and over	790	841	11.8	12.5	708	777	10.4	11.5
Married, spouse present	173	204	5.6	6.4	140	136	5.8	5.7
Widowed, divorced, or separated	95	122	10.0	12.2	183	196	9.4	10.2
Single (never married)	522	515	19.6	20.1	385	445	15.8	18.3
Total, 25 years and over	2,293	3,009	4.0	5.2	1,863	2,114	4.0	4.5
Married, spouse present	1,249	1,554	3.1	3.8	949	1,059	3.3	3.6
Widowed, divorced, or separated	413	595	6.1	8.5	571	679	5.2	6.1
Single (never married)	631	860	6.9	9.1	343	376	5.3	5.7
White, 25 years and over	1,746	2,365	3.5	4.7	1,329	1,522	3.4	3.8
Married, spouse present	1,034	1,310	2.8	3.6	774	888	3.0	3.4
Widowed, divorced, or separated	309	462	5.5	7.9	385	464	4.4	5.2
Single (never married)	403	593	5.5	7.8	169	170	3.4	3.4
Black, 25 years and over	471	526	8.8	9.6	468	495	8.5	8.8
Married, spouse present	165	182	5.6	5.9	126	114	5.6	5.0
Widowed, divorced, or separated	93	119	10.0	12.3	176	193	9.3	10.2
Single (never married)	213	226	14.6	15.4	165	189	11.9	13.0

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
Total, 16 years and over	6,300	7,343	5.1	5.9	5.3	6.3	4.9	5.3
Managerial and professional specialty	581	646	1.9	2.1	1.8	2.1	2.0	2.0
Executive, administrative, and managerial	345	351	2.3	2.3	2.0	2.5	2.7	2.1
Professional specialty	236	295	1.5	1.8	1.5	1.7	1.4	1.9
Technical, sales, and administrative support	1,361	1,679	3.5	4.4	3.1	3.9	3.8	4.7
Technicians and related support	96	113	2.5	2.9	3.0	3.6	2.0	2.2
Sales occupations	605	752	4.0	5.0	3.1	3.8	4.9	6.2
Administrative support, including clerical	660	814	3.4	4.3	3.4	4.4	3.4	4.2
Service occupations	1,055	1,123	6.4	6.6	6.6	6.5	6.3	6.7
Private household	63	40	6.7	4.7	(¹)	(¹)	6.7	4.2
Protective service	57	64	2.9	3.2	2.5	2.8	5.3	5.2
Service, except private household and protective	935	1,020	6.9	7.2	8.1	7.7	6.3	6.9
Precision production, craft, and repair	796	1,028	5.5	7.1	5.5	7.1	5.3	7.4
Mechanics and repairers	160	204	3.4	4.3	3.2	4.4	8.9	2.2
Construction trades	471	604	8.4	10.8	8.5	10.6	4.2	17.6
Other precision production, craft, and repair	165	220	3.9	5.3	3.6	4.6	4.8	7.4
Operators, fabricators, and laborers	1,617	1,949	8.2	9.9	7.8	10.2	9.3	9.2
Machine operators, assemblers, and inspectors	748	816	8.3	9.3	7.3	9.1	9.9	9.6
Transportation and material moving occupations	315	412	6.1	7.7	6.2	8.0	4.5	4.3
Handlers, equipment cleaners, helpers, and laborers	555	722	10.0	13.2	10.1	14.0	9.6	10.1
Construction laborers	138	220	15.8	26.0	15.2	26.3	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	417	501	8.9	10.9	8.9	11.2	8.8	9.9
Farming, forestry, and fishing	233	268	7.3	8.2	7.2	8.1	8.1	8.8
No previous work experience	624	621	-	-	-	-	-	-
16 to 19 years	413	416	-	-	-	-	-	-
20 to 24 years	119	89	-	-	-	-	-	-
25 years and over	92	116	-	-	-	-	-	-

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
Total, 16 years and over	6,300	7,343	5.1	5.9	5.3	6.3	4.9	5.3
Nonagricultural private wage and salary workers	4,883	5,757	5.3	6.2	5.4	6.7	5.1	5.6
Mining	31	44	4.3	6.1	4.4	5.9	3.8	7.3
Construction	655	922	10.3	15.1	10.6	15.9	7.1	6.2
Manufacturing	1,248	1,458	5.6	6.7	4.8	6.2	7.2	7.8
Durable goods	721	879	5.4	6.8	5.1	6.6	6.4	7.3
Lumber and wood products	48	67	6.8	9.7	7.4	9.9	3.5	8.3
Furniture and fixtures	29	45	4.3	6.1	2.9	6.6	7.1	4.6
Stone, clay, and glass products	47	55	7.1	8.4	6.7	6.9	8.9	13.1
Primary metal industries	26	71	3.0	8.6	2.6	7.5	5.6	13.8
Fabricated metal products	113	104	8.0	7.6	6.6	6.7	13.1	10.6
Machinery, except electrical	110	122	4.1	4.7	3.9	4.9	4.4	3.8
Electrical machinery, equipment, and supplies	108	124	4.8	5.9	4.5	4.8	5.1	7.6
Transportation equipment	156	209	5.8	8.0	5.4	7.7	7.0	9.1
Automobiles	98	144	7.9	11.6	6.6	10.7	11.9	15.1
Other transportation equipment	58	66	4.0	4.8	4.5	5.2	2.1	2.9
Professional and photographic equipment	33	33	4.4	4.3	3.9	4.8	5.3	3.7
Other durable goods industries	51	49	8.7	9.4	9.8	12.8	6.8	5.4
Nondurable goods	528	579	5.8	6.5	4.3	5.3	8.0	8.2
Food and kindred products	153	140	7.9	7.3	6.9	6.9	9.7	8.2
Textile mill products	39	49	5.2	6.7	3.7	5.7	6.8	7.6
Apparel and other textile products	119	94	10.1	8.5	6.7	6.7	11.0	9.1
Paper and allied products	16	45	2.2	5.9	1.6	5.6	4.2	6.8
Printing and publishing	71	96	3.7	5.1	3.1	4.1	4.5	6.4
Chemicals and allied products	43	67	3.3	5.2	2.3	3.7	5.3	7.9
Rubber and miscellaneous plastics products	60	59	7.5	7.5	5.9	5.3	10.1	11.2
Other nondurable goods industries	26	29	7.0	7.3	3.7	5.7	11.8	10.7
Transportation and public utilities	199	251	3.1	3.8	3.2	4.6	2.8	1.9
Transportation	133	190	3.5	4.8	3.3	5.6	3.9	2.1
Communications and other public utilities	66	62	2.6	2.4	3.0	2.7	1.8	1.7
Wholesale and retail trade	1,443	1,534	6.0	6.4	5.8	6.0	6.3	6.8
Wholesale trade	164	222	3.7	4.9	3.6	4.1	4.1	6.8
Retail trade	1,279	1,312	6.5	6.8	6.5	6.7	6.6	6.8
Finance, insurance, and real estate	216	232	2.9	3.1	2.9	3.6	3.0	2.8
Service industries	1,091	1,316	4.3	5.0	4.5	5.1	4.1	4.9
Professional services	360	469	2.5	3.1	2.0	2.4	2.7	3.4
Other service industries	731	848	6.6	7.5	6.4	7.2	6.7	7.8
Agricultural wage and salary workers	191	252	11.3	14.3	11.1	14.2	12.0	14.9
Government, self-employed, and unpaid family workers	601	713	2.1	2.4	2.3	2.6	1.9	2.3
No previous work experience	624	621	-	-	-	-	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
NUMBER OF UNEMPLOYED												
Total unemployed	6,300	7,343	2,952	3,695	2,302	2,586	1,047	1,063	4,613	5,443	1,498	1,619
Job losers	3,172	3,956	2,014	2,617	973	1,088	184	251	2,400	3,046	702	790
On layoff	1,033	1,264	675	911	315	292	43	61	851	1,049	157	179
Other job losers	2,139	2,692	1,339	1,706	658	796	141	190	1,549	1,997	545	612
Job leavers	962	957	375	393	385	403	202	161	748	744	176	167
Reentrants	1,615	1,888	478	624	851	971	287	293	1,124	1,317	440	480
New entrants	551	542	85	61	92	125	374	357	341	335	181	181
PERCENT DISTRIBUTION												
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	50.3	53.9	68.2	70.8	42.3	42.1	17.6	23.6	52.0	56.0	46.9	48.8
On layoff	16.4	17.2	22.9	24.7	13.7	11.3	4.1	5.7	18.5	19.3	10.5	11.0
Other job losers	34.0	36.7	45.4	46.2	28.6	30.8	13.5	17.9	33.6	36.7	36.4	37.8
Job leavers	15.3	13.0	12.7	10.6	16.7	15.6	19.3	15.2	16.2	13.7	11.7	10.3
Reentrants	25.6	25.7	16.2	16.9	37.0	37.5	27.4	27.6	24.4	24.2	29.4	29.6
New entrants	8.7	7.4	2.9	1.6	4.0	4.8	35.7	33.6	7.4	6.2	12.1	11.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.6	3.2	3.2	4.1	1.8	2.0	2.5	3.7	2.3	2.8	5.2	5.9
Job leavers .....	.8	.8	.6	.6	.7	.8	2.7	2.4	.7	.7	1.3	1.2
Reentrants	1.3	1.5	.7	1.0	1.6	1.8	3.9	4.3	1.1	1.2	3.3	3.6
New entrants .....	.4	.4	.1	.1	.2	.2	5.0	5.3	.3	.3	1.3	1.3

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	December 1990						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	7,343	100.0	41.6	35.6	22.8	12.4	10.4
Job losers	3,956	100.0	37.1	37.2	25.6	14.1	11.5
On layoff	1,264	100.0	53.8	32.5	13.7	8.6	5.0
Other job losers	2,692	100.0	29.3	39.4	31.2	16.7	14.5
Job leavers	957	100.0	48.5	33.6	17.9	9.9	8.1
Reentrants	1,888	100.0	46.3	33.8	20.0	10.3	9.7
New entrants	542	100.0	46.1	33.5	20.3	11.0	9.3
Men, 20 years and over	3,695	100.0	37.3	36.4	26.3	13.5	12.8
Job losers	2,617	100.0	36.4	36.8	26.8	13.9	12.8
On layoff	911	100.0	53.9	33.5	12.6	8.6	4.0
Other job losers	1,706	100.0	27.1	38.6	34.3	16.8	17.5
Job leavers	393	100.0	42.2	35.0	22.8	10.6	12.2
Reentrants	624	100.0	38.5	36.1	25.4	12.7	12.7
New entrants	61	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 20 years and over	2,586	100.0	42.5	35.5	22.0	12.4	9.7
Job losers	1,088	100.0	33.5	40.2	26.4	15.6	10.7
On layoff	292	100.0	50.7	31.4	17.8	9.0	8.8
Other job losers	796	100.0	27.1	43.4	29.5	18.1	11.4
Job leavers	403	100.0	49.5	35.0	15.5	9.8	5.7
Reentrants	971	100.0	48.7	32.2	19.1	9.7	9.5
New entrants	125	100.0	49.5	22.6	27.9	13.6	14.4
Both sexes, 16 to 19 years	1,063	100.0	54.7	32.9	12.4	8.5	3.9
Job losers	251	100.0	60.3	28.9	10.7	9.7	1.1
On layoff	61	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	190	100.0	58.0	30.8	11.2	10.4	.7
Job leavers	161	100.0	61.1	26.7	12.2	8.4	3.8
Reentrants	293	100.0	54.6	34.3	11.0	7.3	3.7
New entrants	357	100.0	47.8	37.4	14.8	8.7	6.1

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

A-16. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
Total, 16 years and over	6,300	7,343	100.0	100.0	5,055	6,083	100.0	100.0
Less than 5 weeks	2,982	3,057	47.3	41.6	2,228	2,328	44.1	38.3
5 to 14 weeks	2,026	2,614	32.2	35.6	1,665	2,233	32.9	36.7
5 to 10 weeks	1,461	1,920	23.2	26.1	1,209	1,624	23.9	26.7
11 to 14 weeks	565	694	9.0	9.5	456	609	9.0	10.0
15 weeks and over	1,293	1,673	20.5	22.8	1,162	1,522	23.0	25.0
15 to 26 weeks	695	908	11.0	12.4	620	806	12.3	13.2
27 weeks and over	598	765	9.5	10.4	542	716	10.7	11.8
27 to 51 weeks	256	329	4.1	4.5	228	303	4.5	5.0
52 weeks and over	342	436	5.4	5.9	314	413	6.2	6.8
Average (mean) duration, in weeks	11.8	12.7	-	-	12.8	13.8	-	-
Median duration, in weeks	5.1	6.1	-	-	5.8	6.8	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
	December 1990										
Total, 16 years and over	7,343	3,057	2,614	908	765	12.7	6.1	47.3	41.6	20.5	22.8
16 to 19 years	1,063	581	350	90	42	7.8	4.1	56.6	54.7	11.3	12.4
20 to 24 years	1,158	578	385	125	70	9.8	4.5	53.8	49.9	15.1	16.9
25 to 34 years	2,176	932	782	261	201	11.7	5.9	46.3	42.8	21.9	21.2
35 to 44 years	1,528	485	602	248	193	14.3	8.2	41.5	31.7	24.2	28.9
45 to 54 years	914	312	320	133	149	17.5	8.7	37.3	34.1	28.1	30.9
55 to 64 years	409	130	149	42	88	20.9	8.4	42.2	31.7	28.9	31.9
65 years and over	95	39	26	9	21	19.1	9.7	55.7	41.1	22.0	31.5
Men, 16 years and over	4,324	1,720	1,546	564	494	13.6	6.5	46.4	39.8	22.5	24.5
16 to 19 years	629	342	201	66	20	7.9	4.1	56.9	54.3	11.6	13.8
20 to 24 years	686	297	254	90	45	10.7	5.6	50.8	43.4	16.5	19.6
25 to 34 years	1,284	543	457	149	135	12.4	5.9	44.7	42.3	25.7	22.2
35 to 44 years	857	241	351	150	115	15.0	8.9	41.3	28.1	26.8	30.9
45 to 54 years	540	168	187	80	105	20.4	9.4	38.5	31.2	29.3	34.3
55 to 64 years	273	105	84	27	57	20.0	7.6	42.3	38.4	30.1	30.8
65 years and over	55	24	13	2	16	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,020	1,337	1,068	344	271	11.4	5.6	48.5	44.3	18.0	20.4
16 to 19 years	433	239	149	24	21	7.7	4.1	56.3	55.2	10.8	10.4
20 to 24 years	473	280	131	36	25	8.5	3.8	58.2	59.3	13.0	12.9
25 to 34 years	892	390	325	111	66	10.7	5.9	48.0	43.7	17.7	19.9
35 to 44 years	671	244	251	98	78	13.3	7.3	41.8	36.4	21.3	26.3
45 to 54 years	374	144	134	53	44	13.3	7.8	35.5	38.4	26.6	26.0
55 to 64 years	136	25	65	15	31	22.6	9.4	42.0	18.4	26.5	34.0
65 years and over	40	15	13	7	5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,443	2,305	1,977	643	518	12.1	5.9	48.4	42.3	19.1	21.3
Men	3,321	1,366	1,193	412	351	13.0	6.1	47.8	41.1	21.0	23.0
Women	2,122	939	784	231	167	10.8	5.6	49.3	44.3	16.5	18.8
Black, 16 years and over	1,619	631	541	226	220	14.5	6.9	44.0	39.0	24.7	27.6
Men	841	283	302	131	125	15.8	8.3	42.6	33.6	27.5	30.5
Women	777	349	239	95	95	13.2	5.5	45.6	44.9	21.5	24.4
Men, 16 years and over:											
Married, spouse present	1,678	605	647	207	219	14.6	7.2	43.8	36.1	25.8	25.4
Widowed, divorced, or separated	613	191	236	99	86	17.2	8.1	42.9	31.2	23.4	30.3
Single (never married)	2,034	924	663	258	189	11.7	5.5	49.2	45.4	19.7	21.9
Women, 16 years and over:											
Married, spouse present	1,203	504	472	125	102	10.9	5.9	46.6	41.9	18.3	18.8
Widowed, divorced, or separated	720	267	251	114	89	14.6	7.7	44.3	37.1	21.8	28.2
Single (never married)	1,097	566	344	105	80	10.0	4.4	53.1	51.6	15.4	17.0

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
	December 1990							Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
OCCUPATION											
Managerial and professional specialty	646	205	235	112	94	15.8	8.0	37.7	31.7	29.1	31.9
Technical, sales, and administrative support	1,679	679	629	189	182	12.8	6.8	43.5	40.4	20.9	22.1
Service occupations	1,123	512	388	132	92	11.2	5.4	54.3	45.6	17.7	19.9
Precision production, craft, and repair	1,028	385	410	130	103	13.2	6.8	45.9	37.5	21.0	22.6
Operators, fabricators, and laborers	1,949	830	649	252	218	13.0	5.9	49.0	42.6	20.2	24.1
Farming, forestry, and fishing	268	138	89	20	20	9.6	4.4	50.6	51.5	20.2	15.3
INDUSTRY¹											
Agriculture	252	124	94	15	19	8.7	4.6	48.2	49.2	23.0	13.5
Construction	946	443	335	89	78	11.0	5.0	51.6	46.8	17.1	17.7
Manufacturing	1,466	486	561	224	195	14.8	7.5	43.5	33.2	23.8	28.6
Durable goods	887	261	360	151	115	15.3	8.5	39.8	29.4	23.1	30.0
Nondurable goods	580	225	202	73	80	14.0	6.1	48.4	38.8	24.7	26.4
Transportation and public utilities	276	96	112	33	35	14.6	8.5	43.2	34.8	24.4	24.6
Wholesale and retail trade	1,540	694	516	188	143	11.7	5.4	49.5	45.1	18.5	21.5
Finance and service industries	1,774	724	619	225	206	13.5	6.8	45.4	40.8	21.4	24.3
Public administration	129	54	37	25	12	14.4	7.7	40.2	41.9	31.1	29.5
No previous work experience	621	294	205	69	53	11.3	5.1	50.8	47.3	15.1	19.6

¹ Includes wage and salary workers only.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Sex, age, and race	December 1990								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	7,343	6,015	22.1	9.1	71.5	39.7	20.1	5.7	1.68
16 to 19 years	1,063	990	11.1	4.4	76.1	31.1	15.4	3.8	1.42
20 to 24 years	1,158	987	21.1	6.8	73.7	38.1	19.7	5.5	1.65
25 to 34 years	2,176	1,732	26.3	11.2	71.6	42.0	19.8	6.0	1.77
35 to 44 years	1,528	1,210	26.5	9.2	69.5	45.5	20.3	5.3	1.76
45 to 54 years	914	714	23.1	13.1	69.6	38.4	24.0	7.5	1.76
55 to 64 years	409	301	23.8	11.1	62.8	39.9	27.5	6.7	1.72
65 years and over	95	81	1.8	4.1	64.0	37.2	26.8	8.3	1.42
Men, 16 years and over	4,324	3,327	22.9	8.9	72.7	37.6	22.7	7.1	1.72
16 to 19 years	629	575	10.4	5.3	76.8	29.6	16.7	3.8	1.42
20 to 24 years	686	554	23.3	6.8	75.3	35.5	21.4	6.3	1.69
25 to 34 years	1,284	932	28.2	12.2	70.5	38.6	23.5	7.4	1.80
35 to 44 years	857	630	26.6	7.5	71.5	47.9	25.8	7.9	1.87
45 to 54 years	540	398	23.2	11.7	72.0	35.9	24.2	10.1	1.77
55 to 64 years	273	189	27.1	9.3	69.0	34.3	24.9	9.6	1.74
65 years and over	55	50	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,020	2,687	21.2	9.4	70.0	42.2	17.0	3.8	1.64
16 to 19 years	433	415	12.1	3.3	75.2	33.2	13.6	3.9	1.41
20 to 24 years	473	433	18.3	6.8	71.7	41.5	17.6	4.5	1.60
25 to 34 years	892	800	24.1	10.0	72.9	46.0	15.6	4.3	1.73
35 to 44 years	671	580	26.4	11.1	67.3	42.9	14.2	2.5	1.64
45 to 54 years	374	316	23.0	14.8	66.6	41.5	23.8	4.3	1.74
55 to 64 years	136	112	18.4	14.3	52.3	49.3	31.9	1.8	1.68
65 years and over	40	31	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,443	4,340	21.9	9.3	71.2	42.4	20.6	6.6	1.72
Men	3,321	2,488	22.8	8.5	72.5	39.7	23.0	8.3	1.75
Women	2,122	1,853	20.8	10.2	69.5	46.0	17.3	4.3	1.68
Black, 16 years and over	1,619	1,432	23.1	8.5	73.7	30.9	18.9	3.0	1.58
Men	841	704	23.1	9.3	75.4	30.0	21.8	3.4	1.63
Women	777	728	23.0	7.8	72.0	31.8	16.1	2.7	1.53

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

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

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

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

Sex and reason	December 1990								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	7,343	6,015	22.1	9.1	71.5	39.7	20.1	5.7	1.68
Job losers ¹	3,956	2,677	28.9	9.7	73.7	38.9	23.3	6.2	1.81
Job leavers	957	935	20.6	8.2	71.7	47.0	17.9	3.2	1.69
Reentrants	1,888	1,867	16.4	10.1	68.6	38.6	17.1	6.3	1.57
New entrants	542	536	10.9	4.0	70.1	34.8	19.0	5.1	1.44
Men, 16 years and over	4,324	3,327	22.9	8.9	72.7	37.6	22.7	7.1	1.72
Job losers ¹	2,801	1,830	28.5	9.1	74.8	38.1	25.5	7.6	1.84
Job leavers	488	477	22.1	5.6	73.8	46.4	16.9	2.8	1.68
Reentrants	766	755	15.2	11.7	65.7	33.5	20.9	9.6	1.57
New entrants	269	266	7.7	4.7	75.6	30.2	19.0	4.4	1.42
Women, 16 years and over	3,020	2,687	21.2	9.4	70.0	42.2	17.0	3.8	1.64
Job losers ¹	1,155	847	29.9	10.9	71.4	40.4	18.6	3.1	1.74
Job leavers	469	457	19.1	10.9	69.5	47.7	19.0	3.5	1.70
Reentrants	1,122	1,113	17.2	9.0	70.5	42.1	14.5	4.1	1.57
New entrants	273	270	14.2	3.3	64.7	39.4	19.0	5.8	1.46

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
All industries	117,698	117,287	64,075	63,788	53,623	53,499
16 to 19 years	6,377	5,709	3,213	2,908	3,164	2,801
16 to 17 years	2,391	2,105	1,169	1,043	1,222	1,062
18 to 19 years	3,986	3,604	2,044	1,864	1,942	1,739
20 to 24 years	12,451	12,408	6,499	6,450	5,952	5,958
25 to 54 years	83,910	84,194	45,919	45,898	37,991	38,296
25 to 34 years	34,233	33,494	18,916	18,420	15,316	15,074
35 to 44 years	30,098	30,841	16,299	16,713	13,799	14,128
45 to 54 years	19,580	19,859	10,704	10,765	8,877	9,094
55 to 64 years	11,608	11,639	6,492	6,628	5,116	5,010
55 to 59 years	6,898	6,952	3,866	3,931	3,033	3,021
60 to 64 years	4,710	4,687	2,627	2,698	2,083	1,989
65 years and over	3,352	3,337	1,952	1,904	1,400	1,433
Agriculture	2,862	2,943	2,277	2,340	585	602
16 to 19 years	192	160	158	136	34	24
16 to 17 years	86	68	70	58	15	10
18 to 19 years	106	91	88	77	18	14
20 to 24 years	261	312	216	262	45	50
25 to 54 years	1,776	1,823	1,384	1,399	392	424
25 to 34 years	748	737	597	589	151	148
35 to 44 years	620	628	480	466	140	162
45 to 54 years	407	458	307	344	101	113
55 to 64 years	383	400	309	324	74	76
55 to 59 years	178	198	144	161	34	37
60 to 64 years	205	202	165	164	40	39
65 years and over	251	248	210	220	41	29
Nonagricultural industries	114,836	114,344	61,797	61,448	53,038	52,896
16 to 19 years	6,185	5,549	3,055	2,772	3,130	2,777
16 to 17 years	2,305	2,037	1,099	985	1,206	1,052
18 to 19 years	3,880	3,512	1,956	1,787	1,924	1,725
20 to 24 years	12,190	12,096	6,283	6,189	5,907	5,908
25 to 54 years	82,135	82,371	44,535	44,499	37,600	37,872
25 to 34 years	33,484	32,757	18,320	17,831	15,165	14,926
35 to 44 years	29,477	30,213	15,819	16,247	13,659	13,966
45 to 54 years	19,173	19,401	10,397	10,421	8,776	8,980
55 to 64 years	11,225	11,239	6,183	6,304	5,042	4,935
55 to 59 years	6,720	6,754	3,722	3,770	2,998	2,984
60 to 64 years	4,505	4,485	2,461	2,534	2,044	1,951
65 years and over	3,101	3,088	1,741	1,684	1,360	1,404

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
Total	117,698	117,287	64,075	63,788	60,862	60,881	53,623	53,499	50,459	50,697
Managerial and professional specialty	30,594	30,823	16,759	16,482	16,663	16,411	13,834	14,341	13,720	14,219
Executive, administrative, and managerial	14,648	14,703	8,907	8,677	8,866	8,648	5,741	6,027	5,698	5,979
Officials and administrators, public administration	657	535	402	296	402	296	255	238	255	237
Other executive, administrative, and managerial	10,171	10,311	6,576	6,485	6,540	6,457	3,596	3,826	3,567	3,783
Management-related occupations	3,820	3,858	1,930	1,896	1,924	1,896	1,890	1,963	1,876	1,958
Professional specialty	15,946	16,119	7,852	7,806	7,797	7,763	8,094	8,314	8,022	8,240
Engineers	1,919	1,825	1,796	1,680	1,796	1,680	122	146	120	146
Mathematical and computer scientists	847	999	549	624	548	624	298	374	298	372
Natural scientists	396	430	283	316	283	316	113	114	113	113
Health diagnosing occupations	842	862	662	707	659	702	180	156	179	154
Health assessment and treating occupations	2,199	2,320	300	305	297	305	1,900	2,015	1,890	2,015
Teachers, college and university	803	791	519	464	519	460	284	327	277	321
Teachers, except college and university	4,155	4,215	1,103	1,127	1,095	1,117	3,052	3,089	3,026	3,055
Lawyers and judges	736	750	567	604	567	604	169	146	169	145
Other professional specialty occupations	4,049	3,927	2,073	1,979	2,033	1,957	1,976	1,948	1,950	1,918
Technical, sales, and administrative support	36,997	36,513	12,967	13,037	12,257	12,385	24,030	23,475	22,211	21,914
Technicians and related support	3,735	3,784	1,929	1,959	1,895	1,931	1,807	1,825	1,787	1,794
Health technologists and technicians	1,269	1,324	208	232	206	230	1,061	1,092	1,048	1,086
Engineering and science technicians	1,130	1,155	893	917	876	905	238	238	233	228
Technicians, except health, engineering, and science	1,336	1,305	828	810	814	796	508	495	505	480
Sales occupations	14,676	14,391	7,340	7,337	6,892	6,934	7,336	7,054	6,184	6,083
Supervisors and proprietors	3,907	3,778	2,519	2,489	2,495	2,470	1,388	1,290	1,344	1,257
Sales representatives, finance and business services	2,453	2,423	1,353	1,383	1,345	1,366	1,100	1,041	1,079	1,019
Sales representatives, commodities, except retail	1,720	1,659	1,363	1,297	1,352	1,281	357	362	350	359
Sales workers, retail and personal services	6,525	6,435	2,093	2,127	1,689	1,781	4,432	4,308	3,360	3,394
Sales-related occupations	71	96	12	42	11	37	59	54	51	54
Administrative support, including clerical	18,586	18,337	3,698	3,742	3,470	3,519	14,888	14,596	14,240	14,037
Supervisors	738	800	330	323	325	323	408	477	407	476
Computer equipment operators	931	763	327	260	317	239	604	503	594	480
Secretaries, stenographers, and typists	4,937	4,428	92	74	80	72	4,845	4,354	4,683	4,239
Financial records processing	2,362	2,392	215	170	210	164	2,147	2,222	2,086	2,174
Mail and message distributing	966	1,008	601	647	570	632	365	361	344	346
Other administrative support, including clerical	8,652	8,947	2,133	2,268	1,968	2,089	6,519	6,679	6,127	6,322
Service occupations	15,364	15,860	6,013	6,343	5,140	5,483	9,351	9,517	8,396	8,608
Private household	871	800	39	29	31	26	832	771	695	656
Protective service	1,908	1,951	1,646	1,674	1,626	1,641	262	277	246	258
Service, except private household and protective	12,584	13,109	4,328	4,641	3,483	3,817	8,257	8,468	7,455	7,694
Food service	5,327	5,296	2,107	2,213	1,445	1,558	3,220	3,083	2,670	2,548
Health service	1,983	2,108	178	217	170	200	1,805	1,891	1,733	1,836
Cleaning and building service	2,948	3,187	1,618	1,774	1,496	1,662	1,330	1,413	1,287	1,358
Personal service	2,326	2,519	424	437	372	396	1,902	2,082	1,765	1,952
Precision production, craft, and repair	13,737	13,435	12,538	12,245	12,268	11,975	1,199	1,190	1,166	1,163
Mechanics and repairers	4,478	4,499	4,324	4,312	4,244	4,220	155	186	152	185
Construction trades	5,134	5,011	5,013	4,930	4,876	4,793	121	82	117	77
Other precision production, craft, and repair	4,124	3,925	3,201	3,003	3,148	2,962	923	922	897	901
Operators, fabricators, and laborers	18,063	17,656	13,325	13,133	12,248	12,245	4,738	4,523	4,534	4,357
Machine operators, assemblers, and inspectors	8,214	7,968	4,928	4,819	4,732	4,717	3,286	3,149	3,191	3,081
Manufacturing industries	6,641	6,478	3,950	3,908	3,816	3,831	2,692	2,569	2,618	2,518
Durable goods	3,721	3,627	2,577	2,529	2,503	2,487	1,143	1,098	1,119	1,086
Nondurable goods	2,921	2,851	1,372	1,379	1,313	1,345	1,548	1,471	1,499	1,432
Nonmanufacturing industries	1,573	1,491	978	911	916	886	595	580	573	564
Transportation and material moving occupations	4,857	4,958	4,387	4,526	4,265	4,409	470	432	453	426
Motor vehicle operators	3,577	3,700	3,163	3,312	3,076	3,210	414	388	397	382
Other transportation and material moving occupations	1,280	1,258	1,224	1,214	1,189	1,199	56	44	56	44
Handlers, equipment cleaners, helpers, and laborers	4,992	4,730	4,010	3,788	3,251	3,119	981	942	890	850
Construction laborers	738	628	706	601	656	544	32	27	31	26
Other handlers, equipment cleaners, helpers, and laborers	4,254	4,102	3,304	3,187	2,595	2,574	949	915	859	824
Farming, forestry, and fishing	2,944	3,001	2,473	2,548	2,286	2,381	471	453	432	436
Farm operators and managers	1,168	1,201	1,007	1,003	994	994	161	199	160	195
Other farming, forestry, and fishing occupations	1,776	1,799	1,466	1,545	1,292	1,387	310	254	273	241

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
TOTAL						
Total, 16 years and over (thousands)	117,698	117,287	64,075	63,788	53,623	53,499
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.0	26.3	26.2	25.8	25.8	26.8
Executive, administrative, and managerial	12.4	12.5	13.9	13.6	10.7	11.3
Professional specialty	13.5	13.7	12.3	12.2	15.1	15.5
Technical, sales, and administrative support	31.4	31.1	20.2	20.4	44.8	43.9
Technicians and related support	3.2	3.2	3.0	3.1	3.4	3.4
Sales occupations	12.5	12.3	11.5	11.5	13.7	13.2
Administrative support, including clerical	15.8	15.6	5.8	5.9	27.8	27.3
Service occupations	13.1	13.5	9.4	9.9	17.4	17.8
Private household .....	.7	.7	.1	-	1.6	1.4
Protective service	1.6	1.7	2.6	2.6	.5	.5
Service, except private household and protective	10.7	11.2	6.8	7.3	15.4	15.8
Precision production, craft, and repair	11.7	11.5	19.6	19.2	2.2	2.2
Operators, fabricators, and laborers	15.3	15.1	20.8	20.6	8.8	8.5
Machine operators, assemblers, and inspectors	7.0	6.8	7.7	7.6	6.1	5.9
Transportation and material moving occupations	4.1	4.2	6.8	7.1	.9	.8
Handlers, equipment cleaners, helpers, and laborers	4.2	4.0	6.3	5.9	1.8	1.8
Farming, forestry, and fishing	2.5	2.6	3.9	4.0	.9	.8
White						
Total, 16 years and over (thousands)	101,793	101,505	56,106	55,781	45,687	45,725
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	27.2	27.4	27.3	27.0	27.0	27.9
Executive, administrative, and managerial	13.2	13.2	14.7	14.3	11.4	11.8
Professional specialty	14.0	14.2	12.7	12.7	15.7	16.0
Technical, sales, and administrative support	31.8	31.5	20.5	20.6	45.6	44.7
Technicians and related support	3.2	3.2	3.0	3.1	3.3	3.4
Sales occupations	13.0	12.8	12.1	12.1	14.2	13.7
Administrative support, including clerical	15.6	15.4	5.4	5.4	28.1	27.6
Service occupations	11.9	12.3	8.5	8.9	16.1	16.5
Private household .....	.6	.6	.1	-	1.3	1.2
Protective service	1.6	1.6	2.5	2.5	.4	.4
Service, except private household and protective	9.7	10.2	5.9	6.4	14.3	14.8
Precision production, craft, and repair	12.1	11.8	20.2	19.8	2.2	2.2
Operators, fabricators, and laborers	14.4	14.3	19.6	19.6	8.1	7.8
Machine operators, assemblers, and inspectors	6.5	6.4	7.3	7.3	5.5	5.3
Transportation and material moving occupations	4.0	4.0	6.5	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers	3.9	3.8	5.8	5.6	1.7	1.7
Farming, forestry, and fishing	2.6	2.7	4.0	4.2	1.0	.9
Black						
Total, 16 years and over (thousands)	11,989	11,859	5,893	5,887	6,096	5,971
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.4	16.1	13.8	13.4	17.0	18.8
Executive, administrative, and managerial	6.7	7.2	7.1	7.2	6.4	7.1
Professional specialty	8.7	8.9	6.7	6.2	10.6	11.7
Technical, sales, and administrative support	28.7	28.9	17.1	18.5	39.8	39.2
Technicians and related support	2.8	3.0	2.3	2.5	3.4	3.4
Sales occupations	7.9	7.7	5.8	6.0	9.9	9.4
Administrative support, including clerical	17.9	18.2	9.0	10.0	26.6	26.4
Service occupations	22.3	22.9	17.4	18.6	27.1	27.2
Private household	1.9	1.6	-	-	3.6	3.2
Protective service	2.4	2.7	4.0	4.3	.9	1.2
Service, except private household and protective	18.0	18.6	13.4	14.3	22.5	22.8
Precision production, craft, and repair	8.8	9.0	15.3	15.8	2.5	2.3
Operators, fabricators, and laborers	23.2	21.7	33.3	31.1	13.5	12.4
Machine operators, assemblers, and inspectors	10.2	9.5	11.0	9.6	9.4	9.3
Transportation and material moving occupations	6.1	6.5	11.2	12.2	1.3	1.0
Handlers, equipment cleaners, helpers, and laborers	6.9	5.7	11.1	9.4	2.8	2.1
Farming, forestry, and fishing	1.6	1.4	3.2	2.6	.1	.2

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

(In thousands)

Age and sex	December 1990								
	Nonagricultural industries						Agriculture		
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	105,195	1,012	17,939	86,244	8,927	222	1,507	1,354	82
16 to 19 years	5,493	131	278	5,083	50	7	134	15	11
16 to 17 years	2,009	84	72	1,852	25	3	57	5	7
18 to 19 years	3,484	47	206	3,231	25	3	77	10	4
20 to 24 years	11,798	111	1,136	10,551	278	20	263	41	8
25 to 34 years	30,769	149	4,396	26,224	1,950	38	487	232	18
35 to 44 years	27,479	196	5,796	21,487	2,677	58	283	334	11
45 to 54 years	17,439	173	3,777	13,488	1,908	54	187	263	8
55 to 64 years	9,784	151	2,140	7,493	1,425	31	119	267	14
55 to 59 years	5,942	80	1,398	4,465	796	16	65	126	6
60 to 64 years	3,841	71	742	3,028	629	14	53	141	8
65 years and over	2,435	101	416	1,918	638	15	35	201	13
Men, 16 years and over	55,645	116	8,302	47,227	5,762	41	1,190	1,116	35
16 to 19 years	2,742	15	128	2,599	25	5	113	12	10
16 to 17 years	971	10	31	931	13	2	47	5	6
18 to 19 years	1,771	6	97	1,669	12	3	66	7	4
20 to 24 years	6,016	18	477	5,521	158	14	217	36	8
25 to 34 years	16,599	20	2,089	14,490	1,224	8	390	195	4
35 to 44 years	14,532	26	2,587	11,919	1,710	5	205	260	2
45 to 54 years	9,196	9	1,797	7,390	1,222	3	138	206	1
55 to 64 years	5,325	14	1,010	4,301	978	2	95	225	4
55 to 59 years	3,237	8	662	2,566	533	1	54	106	-
60 to 64 years	2,088	5	348	1,735	445	1	41	119	4
65 years and over	1,235	14	215	1,005	444	5	33	182	5
Women, 16 years and over	49,550	896	9,637	39,017	3,166	181	317	237	48
16 to 19 years	2,750	116	150	2,484	25	2	21	3	1
16 to 17 years	1,038	75	42	922	12	2	10	-	1
18 to 19 years	1,713	42	109	1,562	13	-	11	3	-
20 to 24 years	5,781	93	659	5,030	120	6	46	5	-
25 to 34 years	14,169	128	2,308	11,733	726	30	98	37	13
35 to 44 years	12,947	170	3,210	9,567	967	53	78	75	9
45 to 54 years	8,243	164	1,981	6,098	686	51	49	58	7
55 to 64 years	4,459	137	1,130	3,192	447	29	24	42	10
55 to 59 years	2,706	72	735	1,898	263	16	11	20	6
60 to 64 years	1,754	65	394	1,294	184	13	13	22	4
65 years and over	1,200	87	200	913	195	10	2	19	8

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	December 1990												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	2,943	96	91	18	16	101	-	17	48	14	51	38	2,452
Mining	702	74	69	17	10	83	-	6	244	36	135	29	-
Construction	7,202	954	128	58	83	376	-	29	4,208	139	497	700	31
Manufacturing	20,889	2,572	1,820	699	767	2,314	-	395	3,835	6,478	756	1,163	90
Durable goods	12,375	1,525	1,230	486	308	1,338	-	218	2,602	3,627	406	552	84
Nondurable goods	8,514	1,047	590	213	459	976	-	177	1,233	2,851	350	611	6
Transportation and public utilities	8,222	915	457	307	334	2,049	-	327	1,285	119	1,964	462	4
Wholesale and retail trade	24,401	2,151	467	137	10,244	2,359	-	4,432	1,440	336	935	1,875	26
Wholesale trade	4,656	529	107	31	1,939	778	-	44	292	125	430	371	9
Retail trade	19,745	1,621	360	105	8,305	1,581	-	4,387	1,148	211	505	1,504	17
Finance, insurance, and real estate	8,101	2,068	228	150	1,936	3,128	-	295	159	17	24	29	67
Services	39,330	4,702	12,060	2,117	967	6,454	800	8,238	1,981	784	533	394	303
Private households	1,019	2	17	5	4	19	800	92	17	2	1	16	43
Other service industries	38,312	4,700	12,043	2,111	963	6,434	-	8,146	1,964	782	532	378	259
Professional services	25,829	2,696	10,717	1,730	187	4,804	-	4,604	429	227	268	110	58
Public administration	5,495	1,172	798	282	35	1,474	-	1,322	235	46	63	39	29

¹ Includes protective service, not shown separately.

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Dec. 1989	Dec. 1990	Total		Wage and salary workers ¹			
			Dec. 1989	Dec. 1990	Paid absences		Unpaid absences	
					Dec. 1989	Dec. 1990	Dec. 1989	Dec. 1990
Total, 16 years and over	4,097	3,737	3,972	3,596	1,602	1,414	1,871	1,662
Vacation	1,315	1,126	1,285	1,094	791	702	341	249
Illness	1,442	1,294	1,408	1,258	543	502	769	650
Bad weather	144	81	121	66	(²)	(²)	(²)	(²)
Industrial dispute	30	23	30	23	(²)	(²)	(²)	(²)
All other reasons	1,166	1,212	1,127	1,156	268	210	761	763
Men, 16 years and over	2,180	1,943	2,077	1,823	880	800	876	701
Vacation	769	674	745	646	496	452	162	106
Illness	776	652	746	619	280	261	401	298
All other reasons ³	635	617	586	558	105	87	315	297
Women, 16 years and over	1,916	1,794	1,895	1,773	723	614	993	961
Vacation	545	452	540	448	295	250	179	142
Illness	666	642	663	639	265	241	368	352
All other reasons ³	705	699	693	687	163	122	445	467

¹ Excludes private household workers.

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

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

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

Hours of work	December 1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	113,550	2,802	110,748	100.0	100.0	100.0
1 to 34 hours	26,550	828	25,721	23.4	29.5	23.2
1 to 4 hours	809	42	767	.7	1.5	.7
5 to 14 hours	4,623	150	4,473	4.1	5.4	4.0
15 to 29 hours	13,498	412	13,086	11.9	14.7	11.8
30 to 34 hours	7,620	225	7,395	6.7	8.0	6.7
35 hours and over	87,001	1,974	85,027	76.6	70.4	76.8
35 to 39 hours	7,515	125	7,389	6.6	4.5	6.7
40 hours	45,701	667	45,034	40.2	23.8	40.7
41 hours and over	33,785	1,182	32,604	29.8	42.2	29.4
41 to 48 hours	11,911	224	11,687	10.5	8.0	10.6
49 to 59 hours	12,778	370	12,408	11.3	13.2	11.2
60 hours and over	9,097	588	8,508	8.0	21.0	7.7
Average hours, total at work	39.3	42.3	39.3	-	-	-
Average hours, workers on full-time schedules	43.8	49.2	43.7	-	-	-

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

(Numbers in thousands)

Reason for working less than 35 hours	December 1990					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	26,550	7,077	19,472	25,721	6,760	18,962
Economic reasons	5,497	2,144	3,353	5,211	1,989	3,222
Slack work	3,074	1,920	1,154	2,850	1,769	1,081
Material shortages or repairs to plant and equipment	52	52	-	48	48	-
New job started during week	107	107	-	107	107	-
Job terminated during week	66	66	-	65	65	-
Could find only part-time work	2,199	-	2,199	2,140	-	2,140
Other reasons	21,052	4,933	16,119	20,510	4,770	15,740
Does not want, or unavailable for, full-time work	13,432	-	13,432	13,154	-	13,154
Vacation	1,113	1,113	-	1,104	1,104	-
Illness	1,866	1,728	138	1,836	1,706	130
Bad weather	632	632	-	593	593	-
Industrial dispute	4	4	-	4	4	-
Legal or religious holiday	18	18	-	19	19	-
Full time for this job	1,837	-	1,837	1,784	-	1,784
All other reasons	2,150	1,438	712	2,018	1,346	672
Average hours:						
Economic reasons	22.3	24.3	21.0	22.4	24.4	21.1
Other reasons	21.0	26.2	19.5	21.1	26.3	19.5
Worked 30 to 34 hours:						
Economic reasons	1,844	987	857	1,750	923	827
Other reasons	5,776	2,632	3,144	5,644	2,571	3,073

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Industry	December 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	110,748	5,211	15,740	89,797	57,194	11,687	20,916	39.3	43.7
Wage and salary workers	102,095	4,532	14,187	83,376	54,236	11,094	18,046	39.2	43.4
Mining	629	8	13	608	341	102	165	45.5	46.3
Construction	5,471	484	224	4,764	3,247	532	985	40.0	42.7
Manufacturing	19,866	572	639	18,655	11,863	3,048	3,745	42.2	43.4
Durable goods	11,786	238	277	11,271	7,173	1,826	2,272	42.5	43.4
Nondurable goods	8,081	334	362	7,384	4,690	1,222	1,473	41.6	43.4
Transportation and public utilities	7,531	217	424	6,890	4,130	1,033	1,727	42.5	44.4
Wholesale and retail trade	21,900	1,438	5,370	15,092	9,059	2,204	3,829	36.8	44.2
Finance, insurance, and real estate	7,255	123	840	6,492	4,447	777	1,267	40.4	42.6
Service industries	34,132	1,647	6,632	25,853	17,456	2,923	5,474	37.4	43.1
Private households	990	190	405	395	253	44	98	26.9	45.8
All other industries	33,142	1,457	6,227	25,458	17,203	2,879	5,376	37.7	43.0
Public administration	5,310	44	244	5,022	3,693	475	854	41.3	42.5
Self-employed workers	8,432	671	1,451	6,309	2,894	585	2,830	40.6	48.0
Unpaid family workers	222	8	102	113	64	9	40	34.5	47.0

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Sex, age, race, and marital status	December 1990							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Total, 16 years and over	110,748	5,211	15,740	89,797	57,194	32,604	39.3	43.7
16 to 19 years	5,409	448	3,470	1,491	1,137	354	23.5	40.6
16 to 17 years	1,979	103	1,770	106	90	16	16.3	37.7
18 to 19 years	3,430	345	1,700	1,385	1,048	337	27.7	40.8
20 years and over	105,339	4,762	12,270	88,306	56,056	32,250	40.1	43.8
20 to 24 years	11,793	807	2,400	8,586	6,080	2,506	36.2	42.1
25 years and over	93,546	3,956	9,870	79,720	49,976	29,744	40.6	43.9
25 to 44 years	61,163	2,621	5,364	53,178	32,782	20,396	41.2	44.1
45 to 64 years	29,501	1,182	3,159	25,160	16,179	8,981	40.5	43.8
65 years and over	2,882	154	1,347	1,381	1,013	367	28.9	41.4
Men, 16 years and over	59,625	2,515	4,744	52,366	29,714	22,652	42.1	45.2
16 to 19 years	2,717	239	1,641	837	620	217	24.7	41.4
16 to 17 years	968	62	850	57	54	3	17.2	(¹)
18 to 19 years	1,749	177	791	780	566	214	28.8	41.6
20 years and over	56,908	2,275	3,104	51,529	29,094	22,435	43.0	45.2
20 to 24 years	6,064	411	1,012	4,641	3,078	1,562	37.8	43.0
25 years and over	50,843	1,864	2,091	46,888	26,016	20,872	43.6	45.5
25 to 44 years	33,222	1,310	803	31,109	16,856	14,253	44.2	45.6
45 to 64 years	16,056	498	604	14,954	8,591	6,363	43.6	45.3
65 years and over	1,566	57	684	825	568	257	31.0	42.4
Women, 16 years and over	51,123	2,696	10,996	37,431	27,480	9,951	35.9	41.7
16 to 19 years	2,692	209	1,829	654	517	136	22.4	39.5
16 to 17 years	1,011	41	920	49	36	13	15.5	(¹)
18 to 19 years	1,682	168	909	605	481	123	26.5	39.8
20 years and over	48,431	2,487	9,167	36,778	26,963	9,815	36.7	41.7
20 to 24 years	5,729	396	1,388	3,946	3,002	943	34.5	41.0
25 years and over	42,702	2,091	7,779	32,832	23,960	8,872	37.0	41.8
25 to 44 years	27,941	1,311	4,561	22,069	15,927	6,142	37.6	41.9
45 to 64 years	13,445	684	2,554	10,207	7,589	2,618	36.7	41.7
65 years and over	1,315	96	663	556	446	110	26.5	39.9
RACE								
White, 16 years and over	95,758	4,265	14,071	77,421	47,796	29,626	39.4	43.9
Men	52,075	2,051	4,144	45,880	25,161	20,719	42.4	45.4
Women	43,683	2,214	9,927	31,541	22,634	8,907	35.8	41.8
Black, 16 years and over	11,269	785	1,158	9,327	7,291	2,036	38.2	41.9
Men	5,542	375	386	4,781	3,489	1,292	39.6	42.7
Women	5,727	410	771	4,546	3,802	744	36.9	41.0
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	38,109	1,167	1,411	35,531	19,194	16,336	44.1	45.7
Widowed, divorced, or separated	6,144	329	266	5,550	3,210	2,340	42.6	45.0
Single (never married)	15,372	1,019	3,067	11,286	7,310	3,976	37.1	43.7
Women, 16 years and over:								
Married, spouse present	28,440	1,264	6,313	20,863	15,621	5,242	35.9	41.3
Widowed, divorced, or separated	10,271	666	1,324	8,281	5,816	2,465	38.2	42.4
Single (never married)	12,413	767	3,359	8,287	6,043	2,244	34.1	41.9

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	December 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over ¹	110,705	5,181	15,755	89,768	57,069	11,690	21,009	39.3	43.7
Managerial and professional specialty	29,973	559	2,810	26,604	14,568	3,412	8,623	42.5	45.3
Executive, administrative, and managerial	14,377	191	775	13,411	6,909	1,706	4,795	44.3	46.0
Professional specialty	15,595	368	2,034	13,193	7,659	1,706	3,828	40.8	44.7
Technical, sales, and administrative support	35,497	1,223	6,627	27,647	18,739	3,345	5,562	37.9	42.9
Technicians and related support	3,677	63	432	3,182	2,187	451	544	39.6	42.5
Sales occupations	13,991	654	3,034	10,303	5,466	1,327	3,510	39.1	45.8
Administrative support, including clerical	17,829	505	3,161	14,162	11,086	1,568	1,508	36.6	40.9
Service occupations	15,316	1,540	4,293	9,482	6,847	1,008	1,627	33.8	42.6
Private household	778	139	348	292	187	37	67	25.6	44.8
Protective service	1,862	40	165	1,656	984	255	418	42.3	45.3
Service, except private household and protective	12,676	1,361	3,780	7,534	5,676	716	1,142	33.1	42.0
Precision production, craft, and repair	12,915	755	452	11,708	7,425	1,745	2,539	41.6	43.6
Operators, fabricators, and laborers	17,005	1,104	1,574	14,327	9,489	2,180	2,658	39.8	43.3
Machine operators, assemblers, and inspectors	7,716	439	328	6,949	4,989	1,040	919	40.3	42.2
Transportation and material moving occupations	4,728	227	427	4,074	2,141	638	1,295	42.7	46.1
Handlers, equipment cleaners, helpers, and laborers	4,561	438	819	3,304	2,359	502	443	35.8	41.9
Men, 16 years and over ¹	59,438	2,475	4,722	52,241	29,541	7,287	15,413	42.2	45.2
Managerial and professional specialty	16,122	282	790	15,050	6,985	1,953	6,113	45.4	47.2
Executive, administrative, and managerial	8,502	124	315	8,063	3,488	1,009	3,565	46.4	47.8
Professional specialty	7,620	157	475	6,988	3,497	943	2,548	44.2	46.5
Technical, sales, and administrative support	12,744	291	1,361	11,093	5,940	1,526	3,627	42.4	45.8
Technicians and related support	1,919	31	140	1,749	1,137	222	391	41.5	43.5
Sales occupations	7,176	158	767	6,251	2,752	842	2,656	44.1	47.7
Administrative support, including clerical	3,649	102	454	3,093	2,050	462	580	39.7	43.3
Service occupations	6,147	467	1,212	4,468	3,048	520	900	36.9	43.5
Private household	25	3	14	9	7	-	2	(²)	(²)
Protective service	1,588	26	115	1,447	836	226	385	43.2	45.6
Service, except private household and protective	4,535	439	1,083	3,013	2,205	294	514	34.8	42.5
Precision production, craft, and repair	11,765	696	314	10,754	6,715	1,616	2,423	41.9	43.7
Operators, fabricators, and laborers	12,660	740	1,045	10,876	6,854	1,672	2,349	40.7	44.0
Machine operators, assemblers, and inspectors	4,685	191	132	4,361	2,963	672	726	41.8	43.1
Transportation and material moving occupations	4,313	201	282	3,830	1,990	597	1,242	43.5	46.3
Handlers, equipment cleaners, helpers, and laborers	3,662	347	630	2,685	1,901	403	381	36.1	42.1
Women, 16 years and over ¹	51,267	2,706	11,033	37,527	27,528	4,403	5,596	35.9	41.7
Managerial and professional specialty	13,851	278	2,020	11,553	7,584	1,459	2,510	39.1	42.9
Executive, administrative, and managerial	5,875	67	460	5,348	3,421	697	1,230	41.2	43.2
Professional specialty	7,975	211	1,559	6,205	4,163	762	1,280	37.6	42.6
Technical, sales, and administrative support	22,752	932	5,266	16,554	12,800	1,820	1,935	35.3	40.9
Technicians and related support	1,757	32	293	1,432	1,051	229	153	37.5	41.2
Sales occupations	6,815	497	2,266	4,052	2,713	485	854	33.9	42.9
Administrative support, including clerical	14,180	403	2,708	11,069	9,036	1,106	928	35.8	40.2
Service occupations	9,168	1,073	3,081	5,014	3,800	488	726	31.8	41.8
Private household	753	136	334	283	180	38	65	25.8	45.0
Protective service	274	14	50	210	148	28	33	37.0	43.1
Service, except private household and protective	8,141	922	2,697	4,522	3,471	423	628	32.2	41.6
Precision production, craft, and repair	1,150	59	137	954	710	129	116	38.1	41.5
Operators, fabricators, and laborers	4,345	365	529	3,452	2,635	508	309	37.0	41.0
Machine operators, assemblers, and inspectors	3,032	248	195	2,589	2,026	368	194	38.0	40.7
Transportation and material moving occupations	415	26	145	244	151	40	53	34.4	43.6
Handlers, equipment cleaners, helpers, and laborers	899	91	189	619	458	99	62	34.7	41.3

¹ Excludes farming, forestry, and fishing occupations.

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and sex	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL													
Noninstitutional population ¹	188,865	188,990	189,090	189,198	189,326	189,467	189,607	189,763	189,901	190,002	190,095	190,312	190,483
Labor force ¹	126,242	126,186	126,331	126,467	126,438	126,578	126,427	126,336	126,345	126,571	126,445	126,338	126,791
Percent of population ²	66.8	66.8	66.8	66.8	66.8	66.8	66.7	66.6	66.5	66.6	66.5	66.4	66.6
Total employed ¹	119,657	119,642	119,752	119,904	119,747	119,916	119,867	119,509	119,330	119,484	119,303	119,001	119,191
Employment-population ratio ³	63.4	63.3	63.3	63.4	63.2	63.3	63.2	63.0	62.8	62.9	62.8	62.5	62.6
Resident Armed Forces	1,700	1,697	1,678	1,669	1,657	1,639	1,630	1,627	1,640	1,601	1,570	1,615	1,617
Civilian employed	117,957	117,945	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574
Agriculture	3,183	3,145	3,119	3,197	3,140	3,286	3,279	3,108	3,152	3,194	3,175	3,185	3,253
Nonagricultural industries	114,774	114,800	114,955	115,038	114,950	114,991	114,958	114,774	114,538	114,689	114,558	114,201	114,321
Unemployed	6,585	6,544	6,579	6,563	6,691	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600
Unemployment rate ⁴	5.2	5.2	5.2	5.2	5.3	5.3	5.2	5.4	5.6	5.6	5.6	5.8	6.0
Not in labor force	62,623	62,804	62,759	62,731	62,888	62,889	63,180	63,427	63,556	63,431	63,650	63,974	63,692
Men													
Noninstitutional population ¹	90,678	90,772	90,822	90,874	90,942	91,014	91,087	91,168	91,240	91,271	91,299	91,440	91,537
Labor force ¹	69,685	69,608	69,648	69,667	69,697	69,729	69,609	69,523	69,552	69,814	69,804	69,899	70,058
Percent of population ²	76.8	76.7	76.7	76.7	76.6	76.6	76.4	76.3	76.2	76.5	76.5	76.4	76.5
Total employed ¹	66,130	66,013	66,086	66,104	66,035	66,061	65,964	65,728	65,663	65,853	65,822	65,790	65,781
Employment-population ratio ³	72.9	72.7	72.8	72.7	72.6	72.6	72.4	72.1	72.0	72.2	72.1	71.9	71.9
Resident Armed Forces	1,525	1,523	1,506	1,497	1,499	1,472	1,465	1,462	1,475	1,441	1,414	1,453	1,454
Civilian employed	64,605	64,490	64,580	64,607	64,536	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327
Unemployed	3,555	3,595	3,562	3,563	3,662	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277
Unemployment rate ⁴	5.1	5.2	5.1	5.1	5.3	5.3	5.2	5.5	5.6	5.7	5.7	5.9	6.1
Not in labor force	20,993	21,164	21,174	21,207	21,245	21,285	21,478	21,645	21,688	21,457	21,495	21,541	21,479
Women													
Noninstitutional population ¹	98,187	98,218	98,268	98,324	98,383	98,453	98,520	98,595	98,661	98,731	98,796	98,872	98,946
Labor force ¹	56,557	56,578	56,683	56,800	56,741	56,849	56,818	56,813	56,793	56,757	56,641	56,439	56,733
Percent of population ²	57.6	57.6	57.7	57.8	57.7	57.7	57.7	57.6	57.6	57.5	57.3	57.1	57.3
Total employed ¹	53,527	53,629	53,666	53,800	53,712	53,855	53,903	53,781	53,667	53,631	53,481	53,211	53,410
Employment-population ratio ³	54.5	54.6	54.6	54.7	54.6	54.7	54.7	54.5	54.4	54.3	54.1	53.8	54.0
Resident Armed Forces	175	174	172	172	158	167	165	165	165	160	156	162	163
Civilian employed	53,352	53,455	53,494	53,628	53,554	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247
Unemployed	3,030	2,949	3,017	3,000	3,029	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323
Unemployment rate ⁴	5.4	5.2	5.3	5.3	5.3	5.3	5.1	5.3	5.5	5.5	5.6	5.7	5.9
Not in labor force	41,630	41,640	41,585	41,524	41,642	41,604	41,702	41,782	41,868	41,974	42,155	42,433	42,213

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

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ Unemployment as a percent of the labor force (including the resident Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series. Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL													
Civilian noninstitutional population ¹	187,165	187,293	187,412	187,529	187,669	187,828	187,977	188,136	188,261	188,401	188,525	188,697	188,866
Civilian labor force	124,542	124,489	124,653	124,798	124,781	124,939	124,797	124,709	124,705	124,970	124,875	124,723	125,174
Percent of population	66.5	66.5	66.5	66.5	66.5	66.5	66.4	66.3	66.2	66.3	66.2	66.1	66.3
Employed	117,957	117,945	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574
Employment-population ratio ²	63.0	63.0	63.0	63.0	62.9	63.0	62.9	62.7	62.5	62.6	62.4	62.2	62.3
Unemployed	6,585	6,544	6,579	6,569	6,691	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600
Unemployment rate	5.3	5.3	5.3	5.3	5.4	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1
Men, 20 years and over													
Civilian noninstitutional population ¹	82,055	82,168	82,248	82,378	82,487	82,581	82,676	82,790	82,862	82,940	83,013	83,092	83,208
Civilian labor force	64,053	64,031	64,111	64,154	64,188	64,313	64,342	64,331	64,419	64,572	64,594	64,682	64,803
Percent of population	78.1	77.9	77.9	77.9	77.8	77.9	77.8	77.7	77.7	77.9	77.8	77.8	77.9
Employed	61,149	61,059	61,160	61,202	61,152	61,276	61,294	61,162	61,174	61,248	61,245	61,217	61,188
Employment-population ratio ²	74.5	74.3	74.4	74.3	74.1	74.2	74.1	73.9	73.8	73.8	73.8	73.7	73.5
Agriculture	2,277	2,268	2,262	2,275	2,272	2,374	2,369	2,279	2,266	2,299	2,283	2,307	2,365
Nonagricultural industries	58,872	58,791	58,898	58,927	58,880	58,902	58,925	58,883	58,908	58,949	58,962	58,910	58,823
Unemployed	2,904	2,972	2,951	2,952	3,036	3,037	3,048	3,169	3,245	3,324	3,349	3,465	3,615
Unemployment rate	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.9	5.0	5.1	5.2	5.4	5.6
Not in labor force	18,002	18,137	18,137	18,224	18,299	18,268	18,334	18,459	18,443	18,368	18,419	18,410	18,405
Women, 20 years and over													
Civilian noninstitutional population ¹	91,042	91,091	91,157	91,237	91,330	91,414	91,495	91,581	91,688	91,765	91,857	91,963	92,042
Civilian labor force	52,629	52,703	52,822	52,837	52,943	53,075	53,107	53,155	53,255	53,129	53,047	52,896	53,182
Percent of population	57.8	57.9	57.9	57.9	58.0	58.1	58.0	58.0	58.1	57.9	57.7	57.5	57.8
Employed	50,132	50,265	50,340	50,368	50,424	50,613	50,675	50,637	50,649	50,504	50,423	50,196	50,389
Employment-population ratio ²	55.1	55.2	55.2	55.2	55.2	55.4	55.4	55.3	55.2	55.0	54.9	54.6	54.7
Agriculture	616	610	609	650	658	664	661	586	634	633	628	627	647
Nonagricultural industries	49,516	49,655	49,731	49,718	49,766	49,949	50,014	50,051	50,015	49,871	49,795	49,569	49,742
Unemployed	2,497	2,438	2,482	2,469	2,519	2,462	2,432	2,518	2,606	2,625	2,624	2,700	2,793
Unemployment rate	4.7	4.6	4.7	4.7	4.8	4.6	4.6	4.7	4.9	4.9	4.9	5.1	5.3
Not in labor force	38,413	38,388	38,335	38,400	38,387	38,339	38,388	38,426	38,433	38,636	38,810	39,067	38,860
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,067	14,034	14,008	13,914	13,852	13,832	13,806	13,764	13,711	13,696	13,655	13,642	13,616
Civilian labor force	7,860	7,755	7,720	7,807	7,650	7,551	7,348	7,223	7,031	7,269	7,234	7,145	7,189
Percent of population	55.9	55.3	55.1	56.1	55.2	54.6	53.2	52.5	51.3	53.1	53.0	52.4	52.8
Employed	6,676	6,621	6,574	6,665	6,514	6,388	6,268	6,083	5,867	6,131	6,065	5,973	5,997
Employment-population ratio ²	47.5	47.2	46.9	47.9	47.0	46.2	45.4	44.2	42.8	44.8	44.4	43.8	44.0
Agriculture	290	267	248	272	210	248	249	243	252	262	264	251	241
Nonagricultural industries	6,386	6,354	6,326	6,393	6,304	6,140	6,019	5,840	5,615	5,869	5,801	5,722	5,756
Unemployed	1,184	1,134	1,146	1,142	1,136	1,163	1,080	1,140	1,164	1,138	1,169	1,172	1,192
Unemployment rate	15.1	14.6	14.8	14.6	14.8	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6
Not in labor force	6,207	6,279	6,288	6,107	6,202	6,281	6,458	6,541	6,680	6,427	6,421	6,497	6,427

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
WHITE													
Civilian noninstitutional population ¹	159,832	159,938	160,007	160,076	160,170	160,271	160,365	160,468	160,550	160,640	160,717	160,831	160,942
Civilian labor force	106,965	106,952	107,090	107,103	107,090	107,223	107,184	107,196	107,166	107,391	107,277	107,048	107,517
Percent of population	66.9	66.9	66.9	66.9	66.9	66.9	66.8	66.8	66.7	66.9	66.7	66.6	66.8
Employed	102,108	102,112	102,145	102,208	102,088	102,293	102,332	102,189	101,996	102,192	102,017	101,648	101,843
Employment-population ratio ²	63.9	63.8	63.8	63.8	63.7	63.8	63.8	63.7	63.5	63.6	63.5	63.2	63.3
Unemployed	4,857	4,840	4,945	4,895	5,002	4,930	4,852	5,007	5,170	5,199	5,260	5,400	5,674
Unemployment rate	4.5	4.5	4.6	4.6	4.7	4.6	4.5	4.7	4.8	4.8	4.9	5.0	5.3
Men, 20 years and over													
Civilian labor force	55,798	55,793	55,830	55,841	55,816	55,872	55,890	55,909	56,040	56,119	56,123	56,174	56,307
Percent of population	78.6	78.5	78.4	78.4	78.3	78.3	78.2	78.2	78.3	78.3	78.3	78.3	78.3
Employed	53,611	53,562	53,558	53,587	53,495	53,593	53,611	53,566	53,601	53,675	53,615	53,564	53,497
Employment-population ratio ²	75.5	75.3	75.3	75.2	75.0	75.1	75.0	74.9	74.9	74.9	74.8	74.6	74.4
Unemployed	2,187	2,231	2,272	2,254	2,321	2,279	2,279	2,343	2,439	2,444	2,508	2,610	2,810
Unemployment rate	3.9	4.0	4.1	4.0	4.2	4.1	4.1	4.2	4.4	4.4	4.5	4.6	5.0
Women, 20 years and over													
Civilian labor force	44,504	44,522	44,634	44,595	44,733	44,861	44,982	45,039	45,060	44,984	44,918	44,711	44,995
Percent of population	57.4	57.4	57.5	57.5	57.6	57.7	57.8	57.8	57.8	57.7	57.6	57.2	57.6
Employed	42,702	42,762	42,822	42,820	42,911	43,086	43,200	43,229	43,194	43,101	43,032	42,768	43,001
Employment-population ratio ²	55.1	55.2	55.2	55.2	55.2	55.4	55.5	55.5	55.4	55.3	55.1	54.8	55.0
Unemployed	1,802	1,760	1,812	1,775	1,822	1,775	1,782	1,810	1,866	1,883	1,886	1,943	1,994
Unemployment rate	4.0	4.0	4.1	4.0	4.1	4.0	4.0	4.0	4.1	4.2	4.2	4.3	4.4
Both sexes, 16 to 19 years													
Civilian labor force	6,663	6,637	6,626	6,667	6,541	6,490	6,312	6,248	6,066	6,288	6,236	6,163	6,215
Percent of population	58.7	58.7	58.8	59.4	58.6	58.2	56.8	56.4	54.9	57.1	56.9	56.3	57.0
Employed	5,795	5,788	5,765	5,801	5,682	5,614	5,521	5,394	5,201	5,416	5,370	5,316	5,345
Employment-population ratio ²	51.1	51.2	51.2	51.7	50.9	50.4	49.7	48.7	47.1	49.2	49.0	48.6	49.0
Unemployed	868	849	861	866	859	876	791	854	865	872	866	847	870
Unemployment rate	13.0	12.8	13.0	13.0	13.1	13.5	12.5	13.7	14.3	13.9	13.9	13.7	14.0
Men	13.9	13.2	13.1	13.3	13.8	14.1	13.4	14.9	15.4	15.0	14.7	14.9	14.9
Women	12.1	12.3	12.9	12.6	12.3	12.9	11.6	12.4	13.1	12.6	13.0	12.5	13.0
BLACK													
Civilian noninstitutional population ¹	21,164	21,163	21,188	21,211	21,228	21,261	21,289	21,318	21,337	21,361	21,383	21,417	21,448
Civilian labor force	13,500	13,517	13,464	13,540	13,534	13,570	13,488	13,406	13,401	13,476	13,493	13,550	13,486
Percent of population	63.8	63.9	63.5	63.8	63.8	63.8	63.4	62.9	62.8	63.1	63.1	63.3	62.9
Employed	11,956	11,980	12,026	12,092	12,098	12,128	12,044	11,884	11,838	11,869	11,913	11,897	11,836
Employment-population ratio ²	56.5	56.6	56.8	57.0	57.0	57.0	56.6	55.7	55.5	55.6	55.7	55.5	55.2
Unemployed	1,544	1,537	1,438	1,448	1,436	1,442	1,444	1,522	1,563	1,607	1,580	1,653	1,650
Unemployment rate	11.4	11.4	10.7	10.7	10.6	10.6	10.7	11.4	11.7	11.9	11.7	12.2	12.2
Men, 20 years and over													
Civilian labor force	6,228	6,195	6,195	6,221	6,233	6,247	6,298	6,292	6,260	6,324	6,339	6,348	6,359
Percent of population	73.8	73.5	73.6	73.5	73.6	73.6	74.1	73.9	73.4	74.1	74.1	74.3	74.1
Employed	5,573	5,511	5,605	5,620	5,628	5,653	5,688	5,618	5,594	5,597	5,635	5,638	5,664
Employment-population ratio ²	66.1	65.4	66.6	66.4	66.5	66.6	66.9	65.9	65.6	65.5	65.9	66.0	66.0
Unemployed	655	684	590	601	605	594	610	674	666	727	704	710	695
Unemployment rate	10.5	11.0	9.5	9.7	9.7	9.5	9.7	10.7	10.6	11.5	11.1	11.2	10.9
Women, 20 years and over													
Civilian labor force	6,317	6,397	6,414	6,434	6,434	6,486	6,377	6,336	6,358	6,362	6,345	6,365	6,339
Percent of population	59.8	60.5	60.6	60.7	60.6	61.1	59.9	59.5	59.6	59.5	59.3	59.4	59.0
Employed	5,708	5,798	5,813	5,843	5,843	5,888	5,797	5,738	5,733	5,716	5,728	5,717	5,668
Employment-population ratio ²	54.0	54.9	54.9	55.2	55.1	55.4	54.5	53.9	53.7	53.5	53.5	53.3	52.8
Unemployed	609	599	601	591	591	598	580	598	625	646	617	648	671
Unemployment rate	9.6	9.4	9.4	9.2	9.2	9.2	9.1	9.4	9.8	10.2	9.7	10.2	10.6

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	955	925	855	885	867	837	813	778	783	790	809	837	788
Percent of population	44.1	42.6	39.1	41.1	40.3	38.9	37.9	36.3	36.6	37.0	38.0	38.9	38.9
Employed	675	671	608	629	627	587	559	528	511	556	550	542	504
Employment-population ratio ²	31.2	30.9	27.8	29.2	29.1	27.3	26.0	24.6	23.9	26.0	25.8	25.2	23.6
Unemployed	280	254	247	256	240	250	254	250	272	234	259	295	284
Unemployment rate	29.3	27.5	28.9	28.9	27.7	29.9	31.2	32.1	34.7	29.6	32.0	35.2	36.0
Men	29.2	29.1	29.2	30.5	28.9	31.6	35.2	33.1	36.7	31.4	31.3	33.2	36.4
Women	29.5	25.7	28.5	27.3	28.4	28.1	27.1	31.1	32.7	27.6	32.7	37.5	35.8
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	14,019	14,080	14,119	14,159	14,198	14,238	14,277	14,317	14,356	14,396	14,435	14,474	14,514
Civilian labor force	9,506	9,488	9,440	9,565	9,600	9,627	9,618	9,638	9,665	9,632	9,580	9,500	9,569
Percent of population	67.8	67.4	66.9	67.8	67.6	67.6	67.4	67.3	67.3	66.9	66.4	65.6	65.9
Employed	8,734	8,787	8,694	8,828	8,843	8,883	8,919	8,875	8,904	8,809	8,793	8,683	8,676
Employment-population ratio ²	62.3	62.4	61.8	62.3	62.3	62.4	62.5	62.0	62.0	61.2	60.9	60.0	59.8
Unemployed	772	701	746	739	757	744	699	763	761	823	787	817	893
Unemployment rate	8.1	7.4	7.9	7.7	7.9	7.7	7.3	7.9	7.9	8.5	8.2	8.6	9.3

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented

and Hispanics are included in both the white and black population groups. Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

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

(In thousands)

Category	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CHARACTERISTIC													
Total	117,957	117,945	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574
Married men, spouse present	41,006	41,003	41,256	40,942	40,769	40,854	40,826	40,601	40,661	40,833	40,833	40,844	40,728
Married women, spouse present	29,708	29,815	29,727	29,676	29,742	29,987	29,828	29,862	29,869	29,797	29,789	29,713	29,776
Women who maintain families	6,349	6,241	6,368	6,324	6,348	6,390	6,432	6,376	6,372	6,376	6,354	6,341	6,367
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,671	1,643	1,617	1,637	1,647	1,693	1,685	1,665	1,705	1,752	1,714	1,681	1,671
Self-employed workers	1,366	1,361	1,389	1,446	1,430	1,463	1,479	1,382	1,364	1,293	1,350	1,386	1,473
Unpaid family workers	123	113	116	115	112	104	107	100	97	108	99	116	102
Nonagricultural industries:													
Wage and salary workers	105,782	105,841	106,056	105,992	105,897	108,176	105,893	105,783	105,627	105,686	105,384	105,267	105,095
Government	17,747	17,661	17,656	17,732	17,800	18,050	17,832	17,785	17,798	17,597	17,694	17,633	17,640
Private industries	88,035	88,180	88,400	88,260	88,097	88,126	88,061	87,998	87,829	88,089	87,690	87,634	87,455
Private households	1,056	1,032	1,029	1,011	984	964	1,039	1,003	1,021	1,067	1,017	992	1,013
Other industries	86,977	87,148	87,371	87,249	87,113	87,162	87,022	86,995	86,808	87,022	86,673	86,642	86,442
Self-employed workers	8,655	8,697	8,655	8,809	8,713	8,765	8,756	8,725	8,646	8,809	8,859	8,800	8,896
Unpaid family workers	254	256	315	253	255	244	239	258	236	238	250	255	236
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,790	4,921	4,865	4,942	4,853	4,859	5,022	5,001	5,092	5,301	5,409	5,438	5,581
Slack work	2,235	2,368	2,318	2,420	2,406	2,443	2,501	2,570	2,491	2,658	2,663	2,786	2,928
Could only find part-time work	2,115	2,210	2,184	2,130	2,140	2,095	2,207	2,120	2,153	2,408	2,344	2,340	2,302
Voluntary part time	15,399	15,000	15,371	15,427	15,256	15,557	15,190	15,263	15,317	15,250	15,129	15,048	15,081
Nonagricultural industries:													
Part time for economic reasons	4,543	4,681	4,669	4,708	4,680	4,689	4,745	4,780	4,830	5,051	5,135	5,163	5,262
Slack work	2,079	2,206	2,183	2,252	2,246	2,306	2,297	2,399	2,290	2,482	2,467	2,625	2,742
Could only find part-time work	2,063	2,135	2,138	2,061	2,093	2,045	2,136	2,102	2,084	2,333	2,281	2,262	2,216
Voluntary part time	14,988	14,579	14,921	14,951	14,641	15,002	14,668	14,853	14,861	14,823	14,715	14,658	14,650

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

HOUSEHOLD DATA
SEASONALLY ADJUSTED

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

(In thousands)

Sex and age	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	117,957	117,945	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574
16 to 24 years	19,274	19,299	19,240	19,380	19,163	18,061	18,934	18,732	18,439	18,684	18,577	18,518	18,572
16 to 19 years	6,676	6,621	6,574	6,665	6,514	6,388	6,268	6,083	5,867	6,131	6,065	5,973	5,997
16 to 17 years	2,510	2,501	2,499	2,519	2,438	2,383	2,316	2,215	2,158	2,246	2,212	2,225	2,224
18 to 19 years	4,157	4,131	4,079	4,136	4,068	3,993	3,946	3,888	3,729	3,856	3,857	3,739	3,774
20 to 24 years	12,598	12,678	12,666	12,715	12,649	12,673	12,666	12,649	12,572	12,553	12,512	12,545	12,575
25 years and over	98,621	98,671	98,793	98,825	98,871	99,172	99,336	99,247	99,320	99,212	99,160	98,847	98,937
25 to 54 years	83,764	83,723	83,913	83,990	84,004	84,256	84,366	84,336	84,328	84,322	84,325	84,075	84,070
55 years and over	14,888	14,851	14,863	14,870	14,853	14,932	14,930	14,906	14,950	14,922	14,851	14,812	14,901
Men, 16 years and over	64,605	64,490	64,580	64,607	64,536	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327
16 to 24 years	10,114	10,074	10,059	10,062	10,006	9,969	9,866	9,778	9,613	9,760	9,712	9,695	9,758
16 to 19 years	3,456	3,431	3,420	3,405	3,384	3,313	3,205	3,104	3,014	3,164	3,163	3,120	3,139
16 to 17 years	1,300	1,298	1,302	1,293	1,260	1,227	1,184	1,136	1,089	1,170	1,163	1,179	1,172
18 to 19 years	2,147	2,144	2,118	2,114	2,112	2,063	2,014	1,992	1,919	1,976	1,995	1,950	1,966
20 to 24 years	6,658	6,643	6,639	6,657	6,622	6,656	6,661	6,674	6,599	6,596	6,549	6,575	6,619
25 years and over	54,469	54,438	54,504	54,534	54,517	54,591	54,634	54,508	54,604	54,670	54,687	54,637	54,546
25 to 54 years	46,049	45,890	46,037	46,083	46,038	46,094	46,102	46,022	46,040	46,153	46,219	46,137	46,035
55 years and over	8,461	8,497	8,476	8,479	8,448	8,489	8,499	8,498	8,530	8,573	8,492	8,498	8,553
Women, 16 years and over	53,352	53,455	53,494	53,628	53,554	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247
16 to 24 years	9,160	9,225	9,181	9,318	9,157	9,092	9,068	8,954	8,826	8,924	8,865	8,823	8,814
16 to 19 years	3,220	3,190	3,154	3,260	3,130	3,075	3,063	2,979	2,853	2,967	2,902	2,853	2,858
16 to 17 years	1,210	1,203	1,197	1,226	1,178	1,156	1,132	1,079	1,069	1,076	1,049	1,046	1,052
18 to 19 years	2,010	1,987	1,961	2,022	1,956	1,930	1,932	1,896	1,810	1,880	1,862	1,789	1,808
20 to 24 years	5,940	6,035	6,027	6,058	6,027	6,017	6,005	5,975	5,973	5,957	5,963	5,970	5,956
25 years and over	44,152	44,233	44,289	44,291	44,354	44,581	44,702	44,739	44,716	44,542	44,473	44,210	44,391
25 to 54 years	37,715	37,833	37,876	37,897	37,966	38,162	38,264	38,314	38,288	38,169	38,106	37,938	38,035
55 years and over	6,427	6,354	6,387	6,391	6,405	6,443	6,431	6,408	6,420	6,419	6,359	6,314	6,348

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

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

(In thousands)

Sex and age	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	6,585	6,544	6,579	6,563	6,691	6,682	6,560	6,827	7,015	7,087	7,142	7,337	7,600
16 to 24 years	2,389	2,316	2,320	2,310	2,422	2,358	2,238	2,308	2,382	2,426	2,463	2,428	2,463
16 to 19 years	1,184	1,134	1,146	1,142	1,136	1,163	1,080	1,140	1,164	1,138	1,169	1,172	1,192
16 to 17 years	544	449	516	522	517	575	460	474	501	506	508	507	524
18 to 19 years	636	666	618	626	618	614	626	661	651	654	657	662	665
20 to 24 years	1,205	1,182	1,174	1,168	1,286	1,195	1,158	1,168	1,218	1,288	1,294	1,256	1,271
25 years and over	4,214	4,279	4,278	4,259	4,330	4,263	4,301	4,470	4,610	4,652	4,630	4,910	5,160
25 to 54 years	3,719	3,746	3,777	3,766	3,848	3,814	3,825	3,986	4,039	4,136	4,105	4,403	4,664
55 years and over	502	508	517	515	500	474	448	493	528	514	536	513	501
Men, 16 years and over	3,555	3,595	3,562	3,563	3,662	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277
16 to 24 years	1,327	1,275	1,247	1,262	1,346	1,277	1,255	1,266	1,268	1,319	1,325	1,335	1,363
16 to 19 years	651	623	611	611	626	631	597	626	644	637	633	644	662
16 to 17 years	303	223	270	274	281	303	239	259	284	273	263	280	295
18 to 19 years	345	381	340	343	345	341	353	366	357	375	368	367	366
20 to 24 years	676	652	636	651	720	646	658	640	624	682	692	691	701
25 years and over	2,244	2,370	2,325	2,319	2,370	2,352	2,360	2,499	2,595	2,616	2,630	2,764	2,937
25 to 54 years	1,924	2,038	2,022	2,016	2,083	2,079	2,036	2,195	2,230	2,284	2,299	2,448	2,625
55 years and over	319	306	310	308	309	300	281	320	333	337	344	335	316
Women, 16 years and over	3,030	2,949	3,017	3,000	3,029	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323
16 to 24 years	1,062	1,041	1,073	1,048	1,076	1,081	983	1,042	1,114	1,107	1,138	1,093	1,100
16 to 19 years	533	511	535	531	510	532	483	514	520	501	536	528	530
16 to 17 years	241	226	246	248	236	272	221	215	217	233	245	227	229
18 to 19 years	291	285	278	283	273	273	273	295	294	279	289	295	299
20 to 24 years	529	530	538	517	566	549	500	528	594	606	602	565	570
25 years and over	1,970	1,909	1,953	1,940	1,960	1,911	1,941	1,971	2,015	2,036	2,000	2,146	2,223
25 to 54 years	1,795	1,708	1,755	1,750	1,765	1,735	1,789	1,791	1,809	1,852	1,806	1,955	2,039
55 years and over	183	202	207	207	191	174	167	173	195	177	192	178	185

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	5.3	5.3	5.3	5.3	5.4	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1
16 to 24 years	11.0	10.7	10.8	10.7	11.2	11.0	10.6	11.0	11.4	11.5	11.7	11.8	11.7
16 to 19 years	15.1	14.6	14.8	14.6	14.8	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6
16 to 17 years	17.8	15.2	17.1	17.2	17.5	19.4	16.6	17.6	18.8	18.4	18.7	18.6	19.1
18 to 19 years	13.3	13.9	13.2	13.1	13.2	13.3	13.7	14.5	14.9	14.5	14.6	15.0	15.0
20 to 24 years	8.7	8.5	8.5	8.4	9.2	8.8	8.4	8.5	8.8	9.3	9.4	9.1	9.2
25 years and over	4.1	4.2	4.2	4.1	4.2	4.1	4.2	4.3	4.4	4.5	4.5	4.7	5.0
25 to 54 years	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.5	4.6	4.7	4.6	5.0	5.3
55 years and over	3.3	3.3	3.4	3.3	3.3	3.1	2.9	3.2	3.4	3.3	3.5	3.3	3.3
Men, 16 years and over	5.2	5.3	5.2	5.2	5.4	5.4	5.3	5.6	5.7	5.8	5.8	6.0	6.2
16 to 24 years	11.6	11.2	11.0	11.1	11.9	11.4	11.3	11.5	11.7	11.9	12.0	12.1	12.3
16 to 19 years	15.9	15.4	15.2	15.2	15.6	16.0	15.7	16.8	17.6	16.8	16.7	17.1	17.4
16 to 17 years	18.9	14.7	17.2	17.5	18.2	19.8	16.8	18.6	20.7	18.9	18.4	19.2	20.1
18 to 19 years	13.8	15.1	13.8	14.0	14.0	14.2	14.9	15.5	15.7	16.0	15.6	15.8	15.7
20 to 24 years	9.2	8.9	8.7	8.9	9.8	8.8	9.0	8.8	8.6	9.4	9.6	9.5	9.8
25 years and over	4.0	4.2	4.1	4.1	4.2	4.1	4.1	4.4	4.5	4.6	4.6	4.8	5.1
25 to 54 years	4.0	4.3	4.2	4.2	4.3	4.3	4.2	4.6	4.6	4.7	4.7	5.0	5.4
55 years and over	3.6	3.5	3.5	3.5	3.5	3.4	3.2	3.6	3.8	3.8	3.9	3.8	3.6
Women, 16 years and over	5.4	5.2	5.3	5.3	5.4	5.3	5.1	5.4	5.5	5.5	5.6	5.7	5.9
16 to 24 years	10.4	10.1	10.5	10.1	10.5	10.6	9.8	10.4	11.2	11.0	11.4	11.0	11.1
16 to 19 years	14.2	13.8	14.5	14.0	14.0	14.7	13.6	14.7	15.4	14.4	15.6	15.6	15.6
16 to 17 years	16.6	15.8	17.0	16.8	16.7	19.0	16.3	16.6	16.9	17.8	16.9	17.8	17.9
18 to 19 years	12.6	12.5	12.4	12.3	12.2	12.4	12.4	13.5	14.0	12.9	13.4	14.2	14.2
20 to 24 years	8.2	8.1	8.2	7.9	8.6	8.4	7.7	8.1	9.0	9.2	9.2	8.6	8.7
25 years and over	4.3	4.1	4.2	4.2	4.2	4.1	4.2	4.2	4.3	4.4	4.3	4.6	4.8
25 to 54 years	4.5	4.3	4.4	4.4	4.4	4.3	4.5	4.5	4.5	4.6	4.5	4.9	5.1
55 years and over	2.8	3.1	3.1	3.1	2.9	2.6	2.5	2.6	2.9	2.7	2.9	2.7	2.8

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CHARACTERISTIC													
Total (all civilian workers)	5.3	5.3	5.3	5.3	5.4	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1
Men, 20 years and over	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.9	5.0	5.1	5.2	5.4	5.6
Women, 20 years and over	4.7	4.6	4.7	4.7	4.8	4.6	4.6	4.7	4.9	4.9	4.9	5.1	5.3
Both sexes, 18 to 19 years	15.1	14.6	14.8	14.6	14.8	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6
White	4.5	4.5	4.6	4.6	4.7	4.6	4.5	4.7	4.8	4.8	4.9	5.0	5.3
Black and other	10.0	10.0	9.4	9.5	9.3	9.5	9.6	10.3	10.4	10.8	10.6	11.0	11.1
Black	11.4	11.4	10.7	10.7	10.6	10.6	10.7	11.4	11.7	11.9	11.7	12.2	12.2
Hispanic origin	8.1	7.4	7.9	7.7	7.9	7.7	7.3	7.9	7.9	8.5	8.2	8.6	9.3
Married men, spouse present	3.1	3.4	3.1	3.2	3.2	3.3	3.2	3.3	3.5	3.5	3.5	3.7	3.8
Married women, spouse present	3.8	3.7	3.8	3.7	3.6	3.6	3.7	3.6	3.9	3.9	3.9	4.1	4.1
Women who maintain families	7.9	7.6	7.8	8.3	7.8	7.5	8.0	8.3	8.4	8.7	8.5	8.7	8.7
Full-time workers	4.9	5.0	5.0	4.9	5.1	4.9	4.9	5.1	5.3	5.4	5.5	5.7	5.8
Part-time workers	7.5	7.2	7.4	7.2	7.2	7.4	7.5	7.8	7.7	7.2	7.1	7.3	7.6
Unemployed 15 weeks and over ¹	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4
Labor force time lost ²	5.9	6.0	5.9	5.9	6.2	6.0	5.9	6.1	6.3	6.4	6.6	6.7	8.9
INDUSTRY													
Nonagricultural private wage and salary workers	5.3	5.5	5.5	5.5	5.6	5.5	5.4	5.5	5.7	5.8	5.9	6.2	8.3
Goods-producing industries	6.3	6.5	6.5	6.5	6.8	6.7	6.2	6.7	6.9	7.1	7.3	7.9	8.1
Mining	4.1	6.9	4.7	5.3	4.5	3.7	4.0	4.5	4.7	3.8	4.1	4.7	5.8
Construction	9.6	9.4	9.2	10.0	10.5	11.3	9.8	10.5	11.2	12.0	13.0	13.3	14.0
Manufacturing	5.5	5.7	5.7	5.5	5.8	5.5	5.2	5.7	5.8	5.8	5.8	6.5	6.5
Durable goods	5.3	5.6	5.5	5.3	5.6	5.5	5.2	5.7	5.9	6.0	5.9	6.8	6.8
Nondurable goods	5.8	5.7	6.1	5.8	6.0	5.4	5.3	5.7	5.6	5.4	5.7	5.9	6.4
Service-producing industries	4.9	5.0	5.0	5.0	5.1	5.0	5.0	5.0	5.2	5.3	5.3	5.4	5.4
Transportation and public utilities	3.3	4.1	3.9	3.5	4.2	3.3	3.2	3.7	4.0	3.9	4.1	4.1	4.2
Wholesale and retail trade	6.3	6.2	6.1	6.2	6.2	6.2	6.3	6.1	6.3	6.6	6.7	6.7	6.6
Finance and service industries	4.2	4.3	4.4	4.5	4.5	4.4	4.5	4.5	4.7	4.7	4.5	4.7	4.8
Government workers	2.6	2.4	2.5	2.4	2.2	2.5	2.9	2.8	2.8	2.8	2.8	2.8	2.7
Agricultural wage and salary workers	9.6	9.2	9.5	10.1	10.5	8.1	9.8	10.1	9.5	9.3	8.5	9.8	12.3

¹ Unemployment as a percent of the civilian labor force.

² Aggregate hours lost by the unemployed and persons on part time for economic reasons as a percent of potentially available labor force

hours.

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Weeks of unemployment	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
DURATION													
Less than 5 weeks	3,219	3,131	3,157	3,183	3,185	3,078	3,100	3,142	3,275	3,087	3,139	3,277	3,280
5 to 14 weeks	1,961	2,010	2,070	2,074	2,146	2,194	2,085	2,166	2,077	2,452	2,391	2,334	2,518
15 weeks and over	1,348	1,396	1,374	1,370	1,417	1,404	1,436	1,508	1,568	1,605	1,591	1,727	1,739
15 to 26 weeks	721	754	737	732	742	776	777	807	822	861	893	938	940
27 weeks and over	627	642	637	638	675	628	659	701	746	744	698	789	799
Average (mean) duration, in weeks	11.5	11.9	11.7	11.9	12.1	11.6	12.0	12.1	12.3	12.4	12.0	12.4	12.4
Median duration, in weeks	4.9	5.0	5.2	5.0	5.0	5.3	5.2	5.2	5.3	6.1	5.9	5.9	5.9
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	49.3	47.9	47.8	48.0	47.2	46.1	46.8	46.1	47.3	43.2	44.1	44.7	43.5
5 to 14 weeks	30.0	30.7	31.4	31.3	31.8	32.9	31.5	31.8	30.0	34.3	33.6	31.8	33.4
15 weeks and over	20.6	21.4	20.8	20.7	21.0	21.0	21.7	22.1	22.7	22.5	22.3	23.5	23.1
15 to 26 weeks	11.0	11.5	11.2	11.0	11.0	11.6	11.7	11.8	11.9	12.1	12.5	12.8	12.5
27 weeks and over	9.6	9.8	9.7	9.6	10.0	9.4	10.0	10.3	10.8	10.4	9.8	10.8	10.6

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

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

(Numbers in thousands)

Reasons for unemployment	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
NUMBER OF UNEMPLOYED													
Job losers	3,063	3,116	3,095	3,073	3,145	3,173	3,203	3,145	3,388	3,519	3,563	3,756	3,797
On layoff	946	1,012	957	944	984	980	947	977	993	1,111	1,056	1,136	1,150
Other job losers	2,117	2,104	2,138	2,129	2,161	2,193	2,256	2,168	2,395	2,408	2,507	2,620	2,647
Job leavers	1,036	1,015	1,012	1,019	1,159	1,017	999	1,020	989	954	981	996	1,024
Reentrants	1,824	1,775	1,815	1,850	1,794	1,828	1,839	1,920	1,872	1,952	1,911	1,926	2,128
New entrants	680	647	672	651	637	677	549	677	669	663	684	655	662
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	46.4	47.6	46.9	46.6	46.7	47.4	48.6	46.5	49.0	49.6	49.9	51.2	49.9
On layoff	14.3	15.4	14.5	14.3	14.6	14.6	14.4	14.4	14.4	15.7	14.8	15.5	15.1
Other job losers	32.1	32.1	32.4	32.3	32.1	32.8	34.2	32.1	34.6	34.0	35.1	35.7	34.8
Job leavers	15.7	15.5	15.3	15.5	17.2	15.2	15.2	15.1	14.3	13.5	13.7	13.6	13.5
Reentrants	27.6	27.1	27.5	28.1	26.6	27.3	27.9	28.4	27.1	27.5	26.8	26.3	28.0
New entrants	10.3	9.9	10.2	9.9	9.5	10.1	8.3	10.0	9.7	9.4	9.6	8.9	8.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.7	2.8	2.9	3.0	3.0
Job leavers .....	.8	.8	.8	.8	.9	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants	1.5	1.4	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.7
New entrants .....	.5	.5	.5	.5	.5	.5	.4	.5	.5	.5	.5	.5	.5

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-42. Employment status of the noninstitutional population, including Armed Forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Employment status and sex	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
TOTAL													
Noninstitutional population ¹	185,216	185,707	186,099	186,530	186,949	187,461	187,852	188,288	188,722	189,093	189,466	189,889	190,297
Labor force ¹	122,359	122,765	122,986	123,604	124,160	124,939	125,374	125,704	126,136	126,328	126,481	126,418	126,525
Percent of population ²	66.1	66.1	66.1	66.3	66.4	66.6	66.7	66.8	66.8	66.8	66.8	66.6	66.5
Total employed ¹	115,318	115,851	116,318	116,902	117,668	118,525	118,859	119,150	119,536	119,766	119,843	119,441	119,165
Employment-population ratio ³	62.3	62.4	62.5	62.7	62.9	63.2	63.3	63.3	63.3	63.3	63.3	62.9	62.6
Resident Armed Forces	1,749	1,740	1,710	1,690	1,696	1,688	1,674	1,685	1,704	1,681	1,642	1,623	1,601
Civilian employed	113,569	114,111	114,607	115,212	115,972	116,837	117,185	117,465	117,832	118,085	118,201	117,818	117,564
Agriculture	3,192	3,205	3,151	3,118	3,221	3,235	3,118	3,247	3,182	3,154	3,235	3,151	3,204
Nonagricultural industries	110,377	110,906	111,456	112,094	112,750	113,602	114,067	114,218	114,650	114,931	114,966	114,667	114,360
Unemployed	7,041	6,914	6,668	6,702	6,493	6,414	6,515	6,554	6,600	6,562	6,638	6,976	7,360
Unemployment rate ⁴	5.8	5.6	5.4	5.4	5.2	5.1	5.2	5.2	5.2	5.2	5.2	5.5	5.8
Not in labor force	62,857	62,942	63,114	62,926	62,789	62,522	62,478	62,583	62,586	62,764	62,985	63,471	63,772
Men													
Noninstitutional population ¹	88,843	89,100	89,293	89,509	89,715	89,973	90,166	90,385	90,606	90,823	91,014	91,226	91,425
Labor force ¹	66,031	68,183	68,408	68,648	68,656	69,039	69,301	69,392	69,640	69,641	69,679	69,629	69,920
Percent of population ²	76.6	76.5	76.6	76.7	76.5	76.7	76.9	76.8	76.9	76.7	76.6	76.3	76.5
Total employed ¹	64,223	64,424	64,781	64,984	65,100	65,535	65,829	65,874	66,059	66,068	66,020	65,748	65,797
Employment-population ratio ³	72.3	72.3	72.5	72.6	72.6	72.8	73.0	72.9	72.9	72.7	72.5	72.1	72.0
Resident Armed Forces	1,587	1,579	1,548	1,527	1,534	1,525	1,511	1,516	1,529	1,509	1,479	1,459	1,440
Civilian employed	62,635	62,845	63,233	63,457	63,566	64,010	64,318	64,358	64,530	64,559	64,541	64,289	64,357
Unemployed	3,808	3,758	3,627	3,664	3,555	3,504	3,472	3,518	3,581	3,573	3,658	3,882	4,123
Unemployment rate ⁴	5.6	5.5	5.3	5.3	5.2	5.1	5.0	5.1	5.1	5.1	5.3	5.6	5.9
Not in labor force	20,812	20,918	20,885	20,861	21,059	20,934	20,865	20,993	20,966	21,182	21,336	21,597	21,505
Women													
Noninstitutional population ¹	96,372	96,608	96,806	97,022	97,234	97,488	97,686	97,903	98,116	98,270	98,452	98,663	98,872
Labor force ¹	54,328	54,582	54,577	54,956	55,505	55,900	56,073	56,312	56,496	56,687	56,802	56,787	56,604
Percent of population ²	56.4	56.5	56.4	56.6	57.1	57.3	57.4	57.5	57.6	57.7	57.7	57.6	57.2
Total employed ¹	51,095	51,427	51,536	51,918	52,567	52,990	53,030	53,276	53,477	53,699	53,823	53,693	53,367
Employment-population ratio ³	53.0	53.2	53.2	53.5	54.1	54.4	54.3	54.4	54.5	54.6	54.7	54.4	54.0
Resident Armed Forces	161	161	162	163	162	163	163	169	175	173	163	163	160
Civilian employed	50,934	51,266	51,374	51,755	52,405	52,826	52,867	53,107	53,302	53,526	53,660	53,530	53,207
Unemployed	3,233	3,155	3,041	3,038	2,937	2,910	3,043	3,037	3,019	2,989	2,979	3,095	3,237
Unemployment rate ⁴	6.0	5.8	5.6	5.5	5.3	5.2	5.4	5.4	5.3	5.3	5.2	5.4	5.7
Not in labor force	42,044	42,026	42,229	42,065	41,729	41,589	41,613	41,591	41,619	41,583	41,650	41,875	42,267

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

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ Unemployment as a percent of the labor force (including the resident Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-42 through A-53 will not necessarily add to totals because of the independent seasonal adjustment of the various series. Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-43. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
TOTAL													
Civilian noninstitutional population ¹	183,467	183,967	184,389	184,840	185,253	185,773	186,178	186,602	187,018	187,411	187,824	188,266	188,696
Civilian labor force	120,610	121,025	121,275	121,914	122,464	123,251	123,700	124,019	124,432	124,647	124,839	124,795	124,924
Percent of population	65.7	65.8	65.8	66.0	66.1	66.3	66.4	66.5	66.5	66.5	66.5	66.3	66.2
Employed	113,569	114,111	114,607	115,212	115,972	116,837	117,185	117,465	117,832	118,085	118,201	117,818	117,564
Employment-population ratio ²	61.9	62.0	62.2	62.3	62.6	62.9	62.9	63.0	63.0	63.0	62.9	62.6	62.3
Unemployed	7,041	6,914	6,668	6,702	6,493	6,414	6,515	6,554	6,600	6,562	6,638	6,976	7,360
Unemployment rate	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.3	5.3	5.6	5.9
Men, 20 years and over													
Civilian noninstitutional population ¹	79,898	80,194	80,418	80,676	80,925	81,251	81,510	81,741	81,976	82,264	82,581	82,864	83,105
Civilian labor force	62,308	62,481	62,693	62,884	63,016	63,404	63,655	63,748	63,983	64,099	64,281	64,441	64,693
Percent of population	78.0	77.9	78.0	77.9	77.9	78.0	78.1	78.0	78.1	77.9	77.8	77.8	77.8
Employed	59,204	59,412	59,722	59,915	60,087	60,588	60,847	60,843	61,066	61,140	61,241	61,195	61,217
Employment-population ratio ²	74.1	74.1	74.3	74.3	74.3	74.6	74.6	74.4	74.5	74.3	74.2	73.8	73.7
Agriculture	2,296	2,282	2,248	2,252	2,305	2,307	2,272	2,340	2,294	2,268	2,338	2,281	2,318
Nonagricultural industries	56,908	57,130	57,474	57,662	57,783	58,281	58,574	58,504	58,772	58,872	58,902	58,913	58,898
Unemployed	3,104	3,069	2,970	2,969	2,928	2,816	2,808	2,904	2,917	2,958	3,040	3,246	3,476
Unemployment rate	5.0	4.9	4.7	4.7	4.6	4.4	4.4	4.6	4.6	4.6	4.7	5.0	5.4
Not in labor force	17,590	17,713	17,725	17,792	17,909	17,847	17,855	17,993	17,993	18,165	18,300	18,423	18,412
Women, 20 years and over													
Civilian noninstitutional population ¹	88,925	89,183	89,397	89,664	89,883	90,155	90,425	90,685	90,952	91,162	91,413	91,678	91,954
Civilian labor force	50,248	50,522	50,565	50,887	51,506	51,911	52,076	52,333	52,523	52,787	53,042	53,180	53,042
Percent of population	56.5	56.7	56.6	56.8	57.3	57.6	57.6	57.7	57.7	57.9	58.0	58.0	57.7
Employed	47,646	47,965	48,084	48,403	49,089	49,514	49,577	49,857	50,030	50,324	50,571	50,597	50,336
Employment-population ratio ²	53.6	53.8	53.8	54.0	54.6	54.9	54.8	55.0	55.0	55.2	55.3	55.2	54.7
Agriculture	643	638	626	593	653	680	614	651	631	623	661	618	634
Nonagricultural industries	47,003	47,328	47,458	47,810	48,436	48,833	48,962	49,206	49,399	49,701	49,910	49,979	49,702
Unemployed	2,602	2,557	2,481	2,484	2,417	2,398	2,500	2,476	2,493	2,463	2,471	2,583	2,706
Unemployment rate	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.7	4.7	4.7	4.7	4.9	5.1
Not in labor force	38,677	38,661	38,832	38,777	38,377	38,244	38,349	38,352	38,429	38,375	38,371	38,498	38,912
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,644	14,590	14,574	14,500	14,445	14,367	14,243	14,177	14,090	13,985	13,830	13,724	13,637
Civilian labor force	8,054	8,022	8,017	8,144	7,943	7,935	7,969	7,938	7,926	7,761	7,516	7,174	7,189
Percent of population	55.0	55.0	55.0	56.2	55.0	55.2	56.0	56.0	56.3	55.5	54.3	52.3	52.7
Employed	6,719	6,734	6,801	6,895	6,795	6,735	6,761	6,765	6,736	6,620	6,390	6,027	6,012
Employment-population ratio ²	45.9	46.2	46.7	47.5	47.0	46.9	47.5	47.7	47.8	47.3	46.2	43.9	44.1
Agriculture	253	285	277	273	263	248	231	257	256	262	236	252	252
Nonagricultural industries	6,466	6,448	6,524	6,622	6,532	6,488	6,530	6,508	6,480	6,358	6,154	5,775	5,760
Unemployed	1,335	1,288	1,217	1,249	1,148	1,200	1,208	1,174	1,190	1,141	1,126	1,147	1,178
Unemployment rate	16.6	16.1	15.2	15.3	14.4	15.1	15.2	14.8	15.0	14.7	15.0	16.0	16.4
Not in labor force	6,590	6,568	6,557	6,356	6,502	6,432	6,274	6,239	6,164	6,224	6,314	6,550	6,448

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
WHITE													
Civilian noninstitutional population ¹	157,448	157,772	158,048	158,347	158,611	158,944	159,198	159,473	159,738	160,007	160,269	160,553	160,830
Civilian labor force	103,834	104,230	104,480	104,916	105,386	105,929	106,225	106,385	106,841	107,048	107,166	107,251	107,281
Percent of population	65.9	66.1	66.1	66.3	66.4	66.6	66.7	66.7	66.9	66.9	66.9	66.8	66.7
Employed	98,618	99,145	99,641	99,917	100,555	101,263	101,483	101,566	102,007	102,155	102,238	102,126	101,836
Employment-population ratio ²	62.6	62.8	63.0	63.1	63.4	63.7	63.7	63.7	63.9	63.8	63.8	63.6	63.3
Unemployed	5,216	5,085	4,839	4,999	4,831	4,666	4,742	4,819	4,835	4,893	4,928	5,125	5,445
Unemployment rate	5.0	4.9	4.6	4.8	4.6	4.4	4.5	4.5	4.5	4.6	4.6	4.8	5.1
Men, 20 years and over													
Civilian labor force	54,410	54,503	54,642	54,843	54,947	55,244	55,374	55,445	55,706	55,821	55,859	56,023	56,201
Percent of population	78.4	78.3	78.3	78.4	78.3	78.5	78.5	78.4	78.5	78.4	78.2	78.3	78.3
Employed	52,014	52,184	52,436	52,558	52,692	53,136	53,298	53,250	53,514	53,569	53,566	53,614	53,559
Employment-population ratio ²	74.9	74.9	75.1	75.1	75.1	75.5	75.5	75.3	75.4	75.3	75.0	74.9	74.6
Unemployed	2,396	2,319	2,206	2,284	2,254	2,108	2,076	2,195	2,191	2,252	2,293	2,409	2,643
Unemployment rate	4.4	4.3	4.0	4.2	4.1	3.8	3.7	4.0	3.9	4.0	4.1	4.3	4.7
Women, 20 years and over													
Civilian labor force	42,500	42,784	42,893	43,074	43,566	43,854	44,015	44,158	44,379	44,584	44,859	45,028	44,875
Percent of population	55.9	56.1	56.2	56.3	56.8	57.0	57.1	57.2	57.3	57.5	57.7	57.8	57.5
Employed	40,650	40,968	41,166	41,289	41,843	42,169	42,221	42,380	42,597	42,801	43,066	43,175	42,934
Employment-population ratio ²	53.4	53.7	53.9	53.9	54.5	54.8	54.8	54.9	55.0	55.2	55.4	55.4	55.0
Unemployed	1,850	1,816	1,727	1,785	1,723	1,685	1,795	1,779	1,782	1,782	1,793	1,853	1,941
Unemployment rate	4.4	4.2	4.0	4.1	4.0	3.8	4.1	4.0	4.0	4.0	4.0	4.1	4.3
Both sexes, 16 to 19 years													
Civilian labor force	6,925	6,943	6,946	7,000	6,873	6,830	6,836	6,781	6,756	6,643	6,448	6,201	6,205
Percent of population	58.1	58.4	58.5	59.2	58.5	58.6	59.0	59.0	59.3	59.0	57.9	56.2	56.7
Employed	5,954	5,993	6,039	6,070	6,020	5,958	5,965	5,936	5,895	5,785	5,606	5,337	5,344
Employment-population ratio ²	49.9	50.4	50.8	51.3	51.2	51.1	51.5	51.6	51.8	51.4	50.3	48.4	48.9
Unemployed	970	950	907	930	854	872	871	845	861	859	842	864	861
Unemployment rate	14.0	13.7	13.1	13.3	12.4	12.8	12.7	12.5	12.7	12.9	13.1	13.9	13.9
Men	14.7	14.4	13.8	14.3	13.2	14.5	13.7	12.9	13.8	13.2	13.8	15.1	14.8
Women	13.3	13.0	12.3	12.2	11.6	10.9	11.7	12.0	11.6	12.6	12.3	12.7	12.8
BLACK													
Civilian noninstitutional population ¹	20,481	20,568	20,651	20,737	20,813	20,904	20,985	21,061	21,136	21,187	21,259	21,339	21,416
Civilian labor force	13,165	13,124	13,092	13,260	13,338	13,437	13,445	13,533	13,522	13,507	13,531	13,428	13,510
Percent of population	64.3	63.8	63.4	63.9	64.1	64.3	64.1	64.3	64.0	63.8	63.6	62.9	63.1
Employed	11,565	11,505	11,507	11,761	11,861	11,884	11,899	12,018	11,960	12,033	12,090	11,864	11,882
Employment-population ratio ²	56.5	55.9	55.7	56.7	57.0	56.8	56.7	57.1	56.6	56.8	56.9	55.6	55.5
Unemployed	1,600	1,619	1,585	1,499	1,477	1,553	1,546	1,516	1,562	1,474	1,441	1,564	1,628
Unemployment rate	12.2	12.3	12.1	11.3	11.1	11.6	11.5	11.2	11.5	10.9	10.6	11.6	12.0
Men, 20 years and over													
Civilian labor force	6,046	6,112	6,123	6,113	6,153	6,211	6,202	6,217	6,227	6,204	6,259	6,292	6,349
Percent of population	74.5	74.9	74.7	74.2	74.4	74.7	74.3	74.2	74.0	73.5	73.8	73.8	74.2
Employed	5,436	5,463	5,479	5,532	5,565	5,583	5,586	5,613	5,590	5,579	5,656	5,603	5,646
Employment-population ratio ²	67.0	66.9	66.8	67.2	67.3	67.2	66.9	67.0	66.4	66.1	66.7	65.7	66.0
Unemployed	609	649	644	581	588	628	615	603	637	625	603	689	703
Unemployment rate	10.1	10.6	10.5	9.5	9.6	10.1	9.9	9.7	10.2	10.1	9.6	11.0	11.1
Women, 20 years and over													
Civilian labor force	6,187	6,151	6,101	6,219	6,289	6,327	6,321	6,377	6,354	6,415	6,432	6,352	6,350
Percent of population	60.7	60.1	59.4	60.3	60.7	60.7	60.4	60.7	60.2	60.6	60.5	59.5	59.2
Employed	5,515	5,489	5,437	5,596	5,671	5,699	5,702	5,761	5,724	5,818	5,843	5,729	5,704
Employment-population ratio ²	54.1	53.6	52.9	54.2	54.7	54.7	54.5	54.8	54.3	55.0	55.0	53.7	53.2
Unemployed	672	662	664	623	618	628	620	616	630	597	590	623	645
Unemployment rate	10.9	10.8	10.9	10.0	9.8	9.9	9.8	9.7	9.9	9.3	9.2	9.8	10.2

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	932	861	868	927	895	899	922	939	941	888	839	784	811
Percent of population	42.9	39.6	39.8	42.5	41.1	41.3	42.4	43.0	43.3	40.9	39.0	36.6	37.9
Employed	614	553	591	633	625	601	611	643	647	636	591	532	532
Employment-population ratio ²	28.3	25.5	27.1	29.0	28.7	27.6	28.1	29.5	29.8	29.3	27.5	24.8	24.9
Unemployed	319	308	277	295	270	298	311	296	294	252	248	252	279
Unemployment rate	34.2	35.7	32.0	31.8	30.2	33.1	33.7	31.5	31.3	28.4	29.6	32.2	34.4
Men	33.2	37.2	30.6	32.1	31.7	32.6	34.7	28.8	31.1	29.6	31.8	33.7	33.6
Women	35.2	34.3	33.5	31.4	28.4	33.7	32.6	34.5	31.4	27.1	27.2	30.5	35.3
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	13,043	13,153	13,268	13,382	13,495	13,606	13,731	13,853	13,977	14,119	14,238	14,356	14,474
Civilian labor force	8,734	8,904	8,891	8,995	9,140	9,229	9,289	9,347	9,436	9,498	9,615	9,645	9,550
Percent of population	67.0	67.7	67.0	67.2	67.7	67.8	67.6	67.5	67.5	67.3	67.5	67.2	66.0
Employed	7,997	8,173	8,107	8,288	8,437	8,541	8,541	8,546	8,682	8,769	8,882	8,863	8,717
Employment-population ratio ²	61.3	62.1	61.1	61.9	62.5	62.8	62.2	61.7	62.1	62.1	62.4	61.7	60.2
Unemployed	737	731	785	707	704	688	748	801	753	729	733	782	832
Unemployment rate	8.4	8.2	8.8	7.9	7.7	7.5	8.1	8.6	8.0	7.7	7.6	8.1	8.7

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented

and Hispanics are included in both the white and black population groups. Seasonally adjusted data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-45. Employed and unemployed full- and part-time workers by sex, and age, seasonally adjusted

(In thousands)

Full- and part- time status, sex, and age	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
EMPLOYED													
Full-time workers	93,939	94,515	95,016	95,364	95,945	96,711	97,030	97,546	98,048	98,196	98,263	97,918	97,653
Men, 16 years and over	56,189	56,444	56,827	56,938	57,059	57,528	57,788	58,048	58,114	58,117	58,061	57,873	57,880
Men, 20 years and over	54,784	55,025	55,361	55,445	55,586	56,115	56,297	56,462	56,641	56,703	56,662	56,607	56,589
Women, 16 years and over	37,740	38,017	38,233	38,477	38,873	39,121	39,272	39,586	39,913	40,010	40,227	39,991	39,823
Women, 20 years and over	36,612	36,915	37,145	37,349	37,788	38,073	38,195	38,525	38,818	38,986	39,188	39,065	38,912
Both sexes, 16 to 19 years	2,542	2,575	2,510	2,570	2,571	2,522	2,538	2,559	2,589	2,507	2,413	2,246	2,151
Part-time workers	19,660	19,632	19,521	19,816	20,061	20,151	20,092	19,859	19,838	19,925	19,896	19,965	19,896
Men, 16 years and over	6,442	6,395	6,376	6,557	6,503	6,481	6,500	6,362	6,406	6,434	6,459	6,453	6,467
Men, 20 years and over	4,403	4,414	4,334	4,486	4,486	4,500	4,517	4,380	4,419	4,478	4,550	4,592	4,618
Women, 16 years and over	13,217	13,211	13,138	13,290	13,552	13,649	13,589	13,547	13,414	13,470	13,431	13,564	13,407
Women, 20 years and over	11,054	11,035	10,945	11,034	11,324	11,420	11,385	11,314	11,239	11,331	11,385	11,508	11,450
Both sexes, 16 to 19 years	4,203	4,183	4,242	4,296	4,251	4,231	4,189	4,165	4,180	4,116	3,961	3,865	3,827
UNEMPLOYED													
Looking for full-time work	5,621	5,535	5,318	5,347	5,202	5,139	5,179	5,249	5,247	5,278	5,285	5,583	6,056
Men, 16 years and over	3,266	3,154	3,098	3,144	3,060	2,912	2,941	3,036	3,057	3,055	3,120	3,293	3,582
Men, 20 years and over	2,907	2,862	2,758	2,760	2,717	2,621	2,585	2,689	2,685	2,762	2,790	2,962	3,260
Women, 16 years and over	2,374	2,319	2,238	2,227	2,171	2,140	2,262	2,243	2,215	2,163	2,184	2,292	2,466
Women, 20 years and over	2,085	2,052	1,981	1,982	1,923	1,918	1,989	1,985	1,957	1,945	1,951	2,064	2,220
Both sexes, 16 to 19 years	629	621	579	605	583	600	605	575	605	570	543	557	575
Looking for part-time work	1,420	1,400	1,334	1,344	1,286	1,298	1,323	1,288	1,347	1,312	1,333	1,381	1,310
Men, 16 years and over	554	567	533	541	512	534	536	502	539	494	531	571	543
Men, 20 years and over	199	225	205	191	214	216	213	193	232	221	235	262	224
Women, 16 years and over	871	836	804	802	779	766	784	788	807	822	798	806	764
Women, 20 years and over	521	512	490	502	492	486	505	490	533	527	514	522	484
Both sexes, 16 to 19 years	700	664	639	652	581	595	605	605	582	564	584	596	603

NOTE: Employed persons with a job but not at work and persons at work part time are distributed according to whether they usually work full or part time; unemployed persons are classified according to whether

they are seeking full- or part-time jobs. Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-46. Employed civilians by selected social and economic categories, seasonally adjusted

(In thousands)

Category	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
CHARACTERISTIC													
Total	113,569	114,111	114,607	115,212	115,972	116,837	117,185	117,465	117,832	118,085	118,201	117,818	117,564
Married men, spouse present	40,656	40,393	40,418	40,569	40,520	40,870	40,961	40,843	40,887	41,067	40,750	40,698	40,802
Married women, spouse present	28,284	28,571	28,619	28,807	29,057	29,475	29,536	29,416	29,707	29,739	29,852	29,843	29,759
Women who maintain families	6,168	6,160	6,078	6,226	6,368	6,361	6,334	6,405	6,353	6,311	6,390	6,375	6,354
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,606	1,632	1,627	1,579	1,654	1,671	1,608	1,696	1,665	1,632	1,675	1,707	1,689
Self-employed workers	1,433	1,423	1,367	1,396	1,412	1,407	1,384	1,428	1,389	1,399	1,457	1,346	1,403
Unpaid family workers	150	135	158	147	151	156	128	132	119	115	108	102	106
Nonagricultural industries:													
Wage and salary workers	101,845	102,389	102,507	103,289	103,903	104,725	105,199	105,329	105,763	105,963	105,989	105,699	105,249
Government	17,018	17,003	17,040	17,084	17,311	17,376	17,267	17,547	17,681	17,683	17,894	17,727	17,656
Private industries	84,827	85,386	85,467	86,205	86,592	87,349	87,933	87,782	88,082	88,280	88,095	87,972	87,593
Private households	1,217	1,158	1,140	1,124	1,192	1,160	1,134	1,095	1,031	1,024	996	1,030	1,007
Other industries	83,610	84,229	84,327	85,081	85,399	86,189	86,799	86,687	87,052	87,256	87,099	86,942	86,586
Self-employed workers	8,262	8,309	8,651	8,556	8,557	8,605	8,591	8,616	8,606	8,720	8,745	8,727	8,852
Unpaid family workers	250	237	286	243	274	300	274	267	268	275	246	244	248
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,417	5,319	5,124	5,246	5,117	4,972	4,972	4,854	4,778	4,909	4,911	5,131	5,476
Slack work	2,377	2,411	2,292	2,355	2,337	2,286	2,328	2,321	2,300	2,369	2,450	2,573	2,792
Could only find part-time work	2,672	2,575	2,463	2,498	2,397	2,337	2,327	2,173	2,107	2,175	2,147	2,227	2,329
Voluntary part time	14,577	14,607	14,791	15,030	15,364	15,351	15,422	15,507	15,354	15,266	15,334	15,277	15,086
Nonagricultural industries:													
Part time for economic reasons	5,135	5,076	4,889	5,017	4,855	4,715	4,771	4,608	4,535	4,679	4,705	4,887	5,187
Slack work	2,196	2,255	2,156	2,200	2,181	2,108	2,184	2,165	2,140	2,214	2,283	2,390	2,611
Could only find part-time work	2,579	2,485	2,365	2,451	2,311	2,265	2,262	2,102	2,048	2,111	2,091	2,173	2,254
Voluntary part time	14,117	14,154	14,307	14,604	14,905	14,920	14,990	15,059	14,929	14,817	14,837	14,846	14,674

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-47. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	113,569	114,111	114,607	115,212	115,972	116,837	117,185	117,465	117,832	118,085	118,201	117,818	117,564
16 to 24 years	20,132	20,145	20,033	20,118	19,924	19,838	19,819	19,735	19,432	19,306	19,053	18,618	18,556
16 to 19 years	6,719	6,734	6,801	6,895	6,795	6,735	6,761	6,765	6,736	6,620	6,390	6,027	6,012
16 to 17 years	2,742	2,722	2,731	2,705	2,690	2,590	2,592	2,558	2,583	2,506	2,379	2,206	2,220
18 to 19 years	3,984	4,010	4,070	4,181	4,108	4,151	4,161	4,214	4,150	4,115	4,002	3,824	3,790
20 to 24 years	13,413	13,411	13,233	13,224	13,129	13,103	13,058	12,970	12,696	12,686	12,663	12,591	12,544
25 years and over	93,405	93,982	94,549	95,135	96,020	97,001	97,343	97,779	98,370	98,763	99,128	99,260	98,981
25 to 54 years	78,754	79,356	79,970	80,576	81,257	82,093	82,425	82,992	83,555	83,872	84,209	84,329	84,157
55 years and over	14,665	14,592	14,564	14,581	14,783	14,874	14,899	14,813	14,843	14,861	14,905	14,949	14,855
Men, 16 years and over	62,635	62,845	63,233	63,457	63,566	64,010	64,318	64,358	64,530	64,559	64,541	64,289	64,357
16 to 24 years	10,412	10,392	10,438	10,471	10,349	10,330	10,315	10,243	10,157	10,065	9,947	9,717	9,722
16 to 19 years	3,431	3,433	3,511	3,542	3,479	3,423	3,471	3,515	3,464	3,419	3,301	3,094	3,141
16 to 17 years	1,396	1,404	1,408	1,411	1,388	1,308	1,322	1,328	1,324	1,298	1,224	1,132	1,171
18 to 19 years	2,044	2,032	2,096	2,126	2,101	2,129	2,138	2,193	2,142	2,125	2,063	1,962	1,970
20 to 24 years	6,980	6,959	6,927	6,929	6,870	6,908	6,844	6,728	6,693	6,646	6,646	6,623	6,581
25 years and over	52,211	52,468	52,774	53,007	53,205	53,692	53,987	54,139	54,359	54,492	54,581	54,594	54,623
25 to 54 years	43,609	43,951	44,248	44,512	44,727	45,132	45,381	45,673	45,908	46,003	46,078	46,072	46,130
55 years and over	8,614	8,511	8,507	8,505	8,494	8,556	8,580	8,480	8,470	8,484	8,479	8,534	8,514
Women, 16 years and over	50,934	51,266	51,374	51,755	52,405	52,826	52,867	53,107	53,302	53,526	53,660	53,530	53,207
16 to 24 years	9,720	9,753	9,595	9,647	9,575	9,508	9,504	9,492	9,276	9,241	9,106	8,901	8,834
16 to 19 years	3,288	3,301	3,290	3,352	3,316	3,313	3,290	3,250	3,272	3,201	3,089	2,933	2,871
16 to 17 years	1,346	1,318	1,323	1,294	1,303	1,282	1,271	1,230	1,259	1,209	1,155	1,075	1,049
18 to 19 years	1,940	1,977	1,974	2,054	2,006	2,022	2,024	2,021	2,008	1,990	1,939	1,862	1,820
20 to 24 years	6,432	6,452	6,305	6,295	6,259	6,195	6,214	6,242	6,004	6,040	6,016	5,968	5,963
25 years and over	41,195	41,514	41,775	42,128	42,815	43,309	43,356	43,640	44,011	44,271	44,546	44,666	44,358
25 to 54 years	35,145	35,406	35,722	36,064	36,530	36,961	37,044	37,320	37,647	37,869	38,131	38,257	38,026
55 years and over	6,052	6,081	6,057	6,076	6,290	6,318	6,319	6,333	6,374	6,377	6,426	6,416	6,340

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

A-48. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

Sex and age	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	7,041	6,914	6,668	6,702	6,493	6,414	6,515	6,554	6,600	6,562	6,638	6,976	7,360
16 to 24 years	2,612	2,617	2,483	2,462	2,373	2,410	2,408	2,407	2,413	2,315	2,339	2,372	2,451
16 to 19 years	1,335	1,288	1,217	1,249	1,148	1,200	1,208	1,174	1,190	1,141	1,126	1,147	1,178
16 to 17 years	645	595	561	608	525	542	516	538	539	496	517	494	513
18 to 19 years	682	689	666	641	616	651	703	638	647	637	619	655	661
20 to 24 years	1,278	1,329	1,266	1,213	1,225	1,210	1,201	1,233	1,223	1,175	1,213	1,225	1,274
25 years and over	4,419	4,314	4,181	4,224	4,115	4,024	4,103	4,123	4,180	4,272	4,298	4,577	4,900
25 to 54 years	3,931	3,843	3,710	3,755	3,685	3,585	3,625	3,643	3,701	3,763	3,829	4,054	4,391
55 years and over	487	482	475	455	433	442	479	472	484	513	474	512	517
Men, 16 years and over	3,808	3,758	3,627	3,664	3,555	3,504	3,472	3,518	3,581	3,573	3,658	3,882	4,123
16 to 24 years	1,383	1,409	1,329	1,345	1,276	1,322	1,295	1,309	1,339	1,261	1,293	1,284	1,341
16 to 19 years	704	690	657	695	627	688	664	613	664	615	618	636	646
16 to 17 years	345	320	297	329	296	304	300	296	305	256	274	272	279
18 to 19 years	355	369	363	366	328	381	368	319	359	355	346	366	367
20 to 24 years	679	719	673	650	651	635	631	696	675	646	675	649	695
25 years and over	2,417	2,365	2,296	2,304	2,271	2,201	2,171	2,185	2,238	2,338	2,361	2,570	2,777
25 to 54 years	2,132	2,063	1,999	2,017	2,008	1,928	1,893	1,892	1,952	2,025	2,066	2,236	2,457
55 years and over	290	308	294	278	271	269	277	292	295	308	297	330	332
Women, 16 years and over	3,233	3,155	3,041	3,038	2,937	2,910	3,043	3,037	3,019	2,989	2,979	3,095	3,237
16 to 24 years	1,229	1,208	1,154	1,118	1,095	1,088	1,113	1,098	1,075	1,054	1,047	1,088	1,110
16 to 19 years	630	598	560	554	521	512	544	560	526	526	508	512	531
16 to 17 years	300	275	264	279	229	238	217	242	235	240	243	222	234
18 to 19 years	327	320	303	276	287	270	335	319	288	282	273	289	294
20 to 24 years	599	610	594	563	574	576	570	537	548	528	538	576	579
25 years and over	2,002	1,949	1,885	1,920	1,844	1,823	1,932	1,938	1,942	1,934	1,937	2,007	2,123
25 to 54 years	1,799	1,781	1,710	1,738	1,677	1,657	1,733	1,752	1,749	1,738	1,763	1,817	1,933
55 years and over	197	174	181	177	162	173	203	180	189	205	177	182	185

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-49. Unemployment rates by sex and age, seasonally adjusted

(Civilian workers)

Sex and age	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.3	5.3	5.6	5.9
16 to 24 years	11.5	11.5	11.0	10.9	10.6	10.8	10.8	10.9	11.0	10.7	10.9	11.3	11.7
16 to 19 years	16.6	16.1	15.2	15.3	14.4	15.1	15.2	14.8	15.0	14.7	15.0	16.0	16.4
16 to 17 years	19.0	17.9	17.0	18.4	16.3	17.3	16.6	17.4	17.3	16.5	17.9	18.3	18.8
18 to 19 years	14.6	14.7	14.1	13.3	13.0	13.6	14.5	13.1	13.5	13.4	13.4	14.6	14.9
20 to 24 years	8.7	9.0	8.7	8.4	8.5	8.5	8.4	8.7	8.8	8.5	8.7	8.9	9.2
25 years and over	4.5	4.4	4.2	4.3	4.1	4.0	4.0	4.0	4.1	4.1	4.2	4.4	4.7
25 to 54 years	4.8	4.6	4.4	4.5	4.3	4.2	4.2	4.2	4.2	4.3	4.3	4.6	5.0
55 years and over	3.2	3.2	3.2	3.0	2.8	2.9	3.1	3.1	3.2	3.3	3.1	3.3	3.4
Men, 16 years and over	5.7	5.6	5.4	5.5	5.3	5.2	5.1	5.2	5.3	5.2	5.4	5.7	6.0
16 to 24 years	11.7	11.9	11.3	11.4	11.0	11.3	11.2	11.3	11.6	11.1	11.5	11.7	12.1
16 to 19 years	17.0	16.7	15.8	16.4	15.3	16.7	16.1	14.9	16.1	15.2	15.8	17.0	17.1
16 to 17 years	19.8	18.6	17.4	18.9	17.6	18.9	18.5	18.2	18.7	16.5	18.3	19.4	19.3
18 to 19 years	14.8	15.4	14.8	14.7	13.5	15.2	14.7	12.7	14.3	14.3	14.4	15.7	15.7
20 to 24 years	8.9	9.4	8.9	8.6	8.7	8.4	8.4	9.4	9.2	8.9	9.2	8.9	9.5
25 years and over	4.4	4.3	4.2	4.2	4.1	3.9	3.9	3.9	4.0	4.1	4.1	4.5	4.8
25 to 54 years	4.7	4.5	4.3	4.3	4.3	4.1	4.0	4.0	4.1	4.2	4.3	4.6	5.1
55 years and over	3.3	3.5	3.3	3.2	3.1	3.0	3.1	3.3	3.4	3.5	3.4	3.7	3.7
Women, 16 years and over	6.0	5.8	5.6	5.5	5.3	5.2	5.4	5.4	5.4	5.3	5.3	5.5	5.7
16 to 24 years	11.2	11.0	10.7	10.4	10.3	10.3	10.5	10.4	10.4	10.2	10.3	10.9	11.2
16 to 19 years	16.1	15.3	14.5	14.2	13.6	13.4	14.2	14.7	13.9	14.1	14.1	14.9	15.6
16 to 17 years	18.2	17.3	16.6	17.7	15.0	15.7	14.6	16.4	15.7	16.6	17.4	17.1	18.2
18 to 19 years	14.4	13.9	13.3	11.8	12.5	11.8	14.2	13.6	12.5	12.4	12.3	13.4	13.9
20 to 24 years	8.5	8.6	8.6	8.2	8.4	8.5	8.4	7.9	8.4	8.0	8.2	8.8	8.9
25 years and over	4.6	4.5	4.3	4.4	4.1	4.0	4.3	4.3	4.2	4.2	4.2	4.3	4.6
25 to 54 years	4.9	4.8	4.6	4.6	4.4	4.3	4.5	4.5	4.4	4.4	4.4	4.5	4.8
55 years and over	3.1	2.8	2.9	2.8	2.5	2.7	3.1	2.8	2.9	3.1	2.7	2.8	2.8

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
CHARACTERISTIC													
Total (all civilian workers)	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.3	5.3	5.6	5.9
Men, 20 years and over	5.0	4.9	4.7	4.7	4.6	4.4	4.4	4.6	4.6	4.6	4.7	5.0	5.4
Women, 20 years and over	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.7	4.7	4.7	4.7	4.9	5.1
Both sexes, 16 to 19 years	16.6	16.1	15.2	15.3	14.4	15.1	15.2	14.8	15.0	14.7	15.0	16.0	16.4
White	5.0	4.9	4.6	4.8	4.6	4.4	4.5	4.5	4.5	4.6	4.6	4.8	5.1
Black and other	10.9	11.0	10.8	10.0	9.8	10.2	10.0	9.8	10.1	9.6	9.5	10.5	10.9
Black	12.2	12.3	12.1	11.3	11.1	11.6	11.5	11.2	11.5	10.9	10.6	11.6	12.0
Hispanic origin	8.4	8.2	8.8	7.9	7.7	7.5	8.1	8.6	8.0	7.7	7.6	8.1	8.7
Married men, spouse present	3.5	3.4	3.2	3.2	3.2	3.0	3.0	3.1	3.1	3.2	3.2	3.4	3.7
Married women, spouse present	4.2	4.1	3.9	3.9	3.7	3.5	3.9	3.8	3.8	3.7	3.6	3.8	4.0
Women who maintain families	8.6	8.3	8.4	7.9	7.9	8.0	8.1	7.9	7.9	7.9	7.8	8.5	8.6
Full-time workers	5.4	5.3	5.1	5.1	5.0	4.9	4.9	5.0	4.9	5.0	5.0	5.2	5.7
Part-time workers	8.2	8.0	7.6	7.6	7.2	7.2	7.3	7.1	7.4	7.3	7.4	7.6	7.4
Unemployed 15 weeks and over ¹	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3
Labor force time lost ²	6.7	6.6	6.3	6.4	6.1	6.0	6.0	6.0	5.9	5.9	6.0	6.3	6.7
INDUSTRY													
Nonagricultural private wage and salary workers	5.8	5.7	5.5	5.5	5.4	5.3	5.3	5.4	5.4	5.5	5.5	5.7	6.1
Goods-producing industries	6.6	6.7	6.5	6.5	6.3	6.1	6.1	6.4	6.3	6.5	6.6	6.9	7.8
Mining	7.6	7.6	8.6	7.1	8.2	6.7	5.0	6.9	5.1	5.6	4.1	4.3	4.9
Construction	10.8	11.2	10.5	10.2	10.2	10.1	9.7	10.4	9.4	9.5	10.5	11.2	13.4
Manufacturing	5.4	5.4	5.2	5.4	5.1	4.9	5.1	5.2	5.4	5.6	5.5	5.7	6.3
Durable goods	5.0	5.3	4.9	5.2	4.9	4.6	4.7	4.9	5.3	5.5	5.4	5.8	6.5
Nondurable goods	6.1	5.5	5.8	5.9	5.5	5.3	5.6	5.6	5.6	5.9	5.6	5.6	6.0
Service-producing industries	5.3	5.2	5.0	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0	5.2	5.4
Transportation and public utilities	4.5	3.9	4.0	3.7	3.8	3.9	4.1	4.1	3.6	3.8	3.6	3.9	4.1
Wholesale and retail trade	6.4	6.5	6.1	6.2	6.0	5.9	5.8	6.0	6.2	6.2	6.3	6.3	6.7
Finance and service industries	4.7	4.6	4.5	4.4	4.4	4.4	4.5	4.4	4.3	4.4	4.5	4.6	4.7
Government workers	3.3	3.0	2.9	2.8	2.5	2.8	2.9	2.7	2.6	2.4	2.5	2.8	2.8
Agricultural wage and salary workers	11.3	11.1	10.6	11.1	9.6	9.2	9.9	8.5	10.7	9.6	9.5	9.6	10.2

¹ Unemployment as a percent of the civilian labor force.

² Aggregate hours lost by the unemployed and persons on part time for economic reasons as a percent of potentially available labor force

hours.

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-51. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Weeks of unemployment	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
DURATION													
Less than 5 weeks	3,187	3,072	3,110	3,103	3,040	3,141	3,179	3,151	3,205	3,157	3,121	3,168	3,232
5 to 14 weeks	2,061	2,122	1,967	1,978	1,938	1,918	1,996	2,007	1,992	2,051	2,142	2,232	2,414
15 weeks and over	1,776	1,723	1,606	1,601	1,483	1,379	1,363	1,368	1,370	1,380	1,419	1,560	1,686
15 to 26 weeks	852	856	782	796	754	701	706	772	732	741	765	830	924
27 weeks and over	923	867	824	805	729	679	657	596	638	639	654	730	762
Average (mean) duration, in weeks	14.1	14.0	13.5	13.5	12.9	12.4	11.9	11.6	11.6	11.8	11.9	12.3	12.3
Median duration, in weeks	6.2	6.3	5.9	5.9	5.7	5.5	5.4	5.2	4.9	5.1	5.2	5.5	5.9
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	45.4	44.4	46.5	46.4	47.1	48.8	48.6	48.3	48.8	47.9	46.7	45.5	44.1
5 to 14 weeks	29.3	30.7	29.4	29.6	30.0	29.8	30.5	30.8	30.3	31.1	32.1	32.1	32.9
15 weeks and over	25.3	24.9	24.0	24.0	23.0	21.4	20.9	21.0	20.9	20.9	21.2	22.4	23.0
15 to 26 weeks	12.1	12.4	11.7	11.9	11.7	10.9	10.8	11.8	11.1	11.2	11.4	11.9	12.6
27 weeks and over	13.1	12.5	12.3	12.1	11.3	10.5	10.0	9.1	9.7	9.7	9.8	10.5	10.4

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

A-52. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reasons for unemployment	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
NUMBER OF UNEMPLOYED													
Job losers	3,297	3,155	3,110	3,106	2,988	2,929	2,860	2,958	3,039	3,095	3,174	3,351	3,705
On layoff	899	872	840	868	825	796	821	860	898	971	970	1,027	1,114
Other job losers	2,398	2,283	2,270	2,238	2,163	2,134	2,040	2,098	2,141	2,124	2,203	2,324	2,591
Job leavers	948	1,024	962	965	981	953	1,036	1,030	1,026	1,015	1,058	988	1,000
Reentrants	1,916	1,898	1,785	1,799	1,749	1,800	1,934	1,838	1,850	1,813	1,820	1,915	1,988
New entrants	884	862	844	791	768	748	713	667	681	657	621	670	667
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	46.8	45.5	46.4	46.6	46.1	45.6	43.7	45.6	46.1	47.0	47.6	48.4	50.3
On layoff	12.8	12.6	12.5	13.0	12.7	12.4	12.5	13.2	13.6	14.8	14.5	14.8	15.1
Other job losers	34.0	32.9	33.9	33.6	33.3	33.2	31.2	32.3	32.5	32.3	33.0	33.6	35.2
Job leavers	13.5	14.8	14.4	14.5	15.1	14.8	15.8	15.9	15.6	15.4	15.9	14.3	13.6
Reentrants	27.2	27.3	26.6	27.0	27.0	28.0	29.6	28.3	28.0	27.6	27.3	27.7	27.0
New entrants	12.5	12.4	12.6	11.9	11.8	11.6	10.9	10.3	10.3	10.0	9.3	9.7	9.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.4	2.4	2.5	2.5	2.7	3.0
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants	1.6	1.6	1.5	1.5	1.4	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.6
New entrants .....	.7	.7	.7	.6	.6	.6	.6	.5	.5	.5	.5	.5	.5

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

SEASONALLY ADJUSTED
QUARTERLY AVERAGES

A-53. Persons not in the labor force by reason, sex, and race, seasonally adjusted

(In thousands)

Reason, sex, and race	1987	1988				1989				1990			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
TOTAL													
Total not in labor force	62,857	62,942	63,114	62,926	62,789	62,522	62,478	62,583	62,586	62,764	62,985	63,471	63,772
Do not want a job now	57,361	57,452	57,758	57,723	57,385	57,283	57,169	57,121	57,370	57,332	57,449	58,248	58,188
Current activity:													
Going to school	6,532	6,348	6,423	6,460	6,315	6,375	6,362	6,445	6,248	6,397	6,606	6,927	6,707
Ill, disabled	4,362	4,344	4,453	4,458	4,665	4,595	4,747	4,684	4,731	4,692	4,994	5,099	5,115
Keeping house	25,557	25,213	25,426	25,379	24,542	24,451	24,186	24,043	23,827	23,897	23,422	23,619	23,562
Retired	16,435	16,894	16,775	16,838	17,212	17,200	17,377	17,726	18,211	18,228	18,349	18,542	18,598
Other activity	4,475	4,653	4,680	4,587	4,650	4,661	4,498	4,223	4,352	4,118	4,079	4,061	4,206
Want a job now	5,450	5,536	5,314	5,222	5,411	5,347	5,302	5,454	5,142	5,482	5,571	5,356	5,530
Reason not looking:													
School attendance	1,359	1,344	1,294	1,348	1,401	1,303	1,279	1,439	1,243	1,412	1,429	1,410	1,393
Ill health, disability	877	840	811	802	779	889	928	894	902	918	915	876	947
Home responsibilities	1,229	1,202	1,214	1,122	1,135	1,190	1,157	1,163	1,245	1,181	1,263	1,229	1,150
Think cannot get a job	899	1,029	905	932	930	887	859	808	799	784	879	831	941
Job-market factors	563	693	604	600	572	583	525	512	543	508	539	519	588
Personal factors	337	336	301	332	358	304	334	297	256	276	340	312	353
Other reasons ¹	1,086	1,121	1,090	1,018	1,166	1,078	1,079	1,150	953	1,188	1,084	1,010	1,100
Men													
Total not in labor force	20,812	20,918	20,885	20,861	21,059	20,934	20,865	20,993	20,966	21,182	21,336	21,597	21,505
Do not want a job now	18,874	19,002	19,008	18,942	19,061	19,049	18,976	18,921	19,161	19,206	19,349	19,674	19,567
Want a job now	1,914	1,997	1,875	1,881	2,009	1,965	1,899	1,989	1,771	2,018	2,011	1,951	1,927
Reason not looking:													
School attendance	711	673	674	647	710	653	633	715	596	742	689	713	629
Ill health, disability	434	415	353	371	370	418	449	473	427	454	487	436	453
Think cannot get a job	360	454	404	446	442	426	399	340	367	333	362	395	383
Other reasons ¹	408	455	444	418	487	468	418	461	381	489	474	407	462
Women													
Total not in labor force	42,044	42,026	42,229	42,065	41,729	41,589	41,613	41,591	41,619	41,583	41,650	41,875	42,267
Do not want a job now	38,487	38,450	38,750	38,781	38,324	38,234	38,194	38,199	38,209	38,127	38,100	38,574	38,621
Want a job now	3,536	3,539	3,439	3,341	3,402	3,381	3,404	3,465	3,372	3,463	3,560	3,405	3,603
Reason not looking:													
School attendance	648	671	620	701	690	650	647	723	647	670	740	698	763
Ill health, disability	442	425	458	431	409	471	478	421	475	464	428	441	494
Home responsibilities	1,229	1,202	1,214	1,122	1,135	1,190	1,157	1,163	1,245	1,181	1,263	1,229	1,150
Think cannot get a job	539	575	501	486	488	460	461	469	432	450	518	435	558
Other reasons	678	667	647	601	680	610	661	689	572	698	610	603	638
White													
Total not in labor force	53,614	53,542	53,568	53,431	53,225	53,015	52,973	53,088	52,897	52,959	53,103	53,302	53,549
Do not want a job now	49,544	49,558	49,728	49,688	49,316	49,297	49,149	49,265	49,245	49,041	49,082	49,362	49,636
Want a job now	4,062	4,030	3,828	3,683	3,890	3,847	3,754	3,774	3,687	4,020	3,931	3,909	3,905
Reason not looking:													
School attendance	980	971	909	879	936	906	893	962	849	990	953	983	874
Ill health, disability	704	610	612	564	560	663	646	596	648	669	648	664	748
Home responsibilities	897	864	831	805	827	815	817	787	904	861	916	904	828
Think cannot get a job	593	691	590	605	649	586	520	530	532	553	607	589	612
Other reasons ¹	888	894	887	830	918	878	879	899	753	948	807	769	843
Black													
Total not in labor force	7,316	7,444	7,559	7,477	7,475	7,467	7,540	7,528	7,614	7,680	7,728	7,911	7,906
Do not want a job now	6,090	6,120	6,319	6,244	6,183	6,140	6,274	6,000	6,326	6,394	6,404	6,705	6,469
Want a job now	1,214	1,303	1,267	1,232	1,275	1,316	1,304	1,609	1,268	1,273	1,350	1,239	1,408
Reason not looking:													
School attendance	340	345	322	322	379	335	308	452	339	355	405	340	440
Ill health, disability	169	198	186	226	201	216	241	297	252	227	231	181	183
Home responsibilities	298	306	322	259	274	341	274	350	306	289	274	310	303
Think cannot get a job	243	274	274	280	215	257	323	256	223	200	207	203	265
Other reasons ¹	164	180	164	145	206	168	159	254	147	203	233	205	217

¹ Includes small number of men not looking for work because of "home responsibilities."

NOTE: Data have been revised based on the experience through December 1990. See the article in this issue for additional information.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-54. Persons not in the labor force by reason, sex, and age

(In thousands) -

Reason and sex	Total		Age							
	IV 1989	IV 1990	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL										
Total not in labor force	62,658	63,872	6,539	6,814	4,102	4,128	20,190	20,686	31,828	32,244
Do not want a job now	57,654	58,463	5,637	5,754	3,377	3,373	17,451	17,725	31,188	31,611
Current activity:										
Going to school	7,808	8,232	5,044	5,234	1,836	1,938	906	1,034	23	26
Ill, disabled	4,662	5,039	26	31	112	85	2,418	2,665	2,106	2,258
Keeping house	23,696	23,438	355	299	1,089	1,060	11,258	11,187	10,994	10,892
Retired	17,987	18,367	—	—	—	—	463	425	17,524	17,942
Other activity	3,500	3,388	212	190	340	290	2,407	2,414	541	493
Want a job now	5,005	5,409	902	1,060	725	755	2,739	2,961	640	633
Reason for not looking:										
School attendance	1,215	1,385	703	859	236	254	277	269	—	3
Ill health, disability	904	949	13	18	37	74	625	657	230	200
Home responsibility	1,186	1,093	58	69	215	202	864	783	50	39
Think cannot get a job	807	954	88	70	97	111	469	599	152	174
Job-market factors	556	603	51	26	67	88	352	416	87	73
Personal factors	250	351	37	44	30	23	118	183	65	101
Other reasons ¹	893	1,028	41	44	140	115	504	651	207	218
Men										
Total not in labor force	21,267	21,814	3,193	3,306	1,421	1,478	4,155	4,350	12,497	12,680
Do not want a job now	19,529	19,927	2,746	2,794	1,156	1,241	3,399	3,511	12,229	12,382
Current activity										
Going to school	3,870	4,075	2,625	2,650	912	1,028	331	388	2	9
Ill, disabled	2,380	2,565	11	25	52	54	1,332	1,457	985	1,028
Keeping house	466	487	12	6	31	25	166	206	258	249
Retired	11,012	11,080	—	—	—	—	363	293	10,650	10,786
Other activity	1,801	1,721	98	113	161	133	1,207	1,166	334	309
Want a job now	1,737	1,887	447	512	266	237	756	839	268	299
Reason for not looking										
School attendance	584	625	380	433	109	109	95	83	—	—
Ill health, disability	434	459	3	11	28	37	307	334	97	76
Think cannot get a job	367	378	41	41	66	54	180	190	80	93
Other reasons ¹	352	425	23	27	63	37	175	232	91	129
Women										
Total not in labor force	41,392	42,058	3,346	3,508	2,681	2,650	16,035	16,336	19,331	19,564
Do not want a job now	38,124	38,536	2,891	2,960	2,221	2,132	14,053	14,215	18,959	19,229
Current activity										
Going to school	3,938	4,157	2,419	2,584	924	910	575	646	21	18
Ill, disabled	2,282	2,473	16	6	60	30	1,086	1,208	1,121	1,229
Keeping house	23,230	22,951	343	293	1,058	1,035	11,092	10,981	10,737	10,643
Retired	6,975	7,287	—	—	—	—	100	132	6,874	7,155
Other activity	1,699	1,666	114	77	179	157	1,199	1,248	207	184
Want a job now	3,268	3,522	455	548	459	518	1,982	2,122	372	335
Reason for not looking										
School attendance	631	760	323	426	127	145	181	186	—	3
Ill health, disability	470	490	10	7	9	37	318	323	133	123
Home responsibility	1,186	1,093	58	69	215	202	864	783	50	39
Think cannot get a job	440	576	47	29	32	57	290	409	72	81
Other reasons ¹	541	603	17	17	77	77	330	419	117	89

¹ Includes small number of men not looking for work because of "home responsibilities."

force totals because of differences in the weighting patterns used in aggregating these data.

NOTE: Detail in tables A-54 and A-55 may not add to not-in-labor-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-55. Persons not in the labor force by reason, race, Hispanic origin, age, and sex

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	IV 1989	IV 1990	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
WHITE												
Total not in labor force	53,040	53,722	8,157	8,193	16,491	16,777	28,392	28,752	17,760	18,150	35,280	35,573
Do not want a job now	49,523	49,918	7,142	7,029	14,488	14,638	27,893	28,251	16,570	16,768	32,953	33,149
Current activity:												
Going to school	6,115	6,354	5,405	5,530	691	801	18	22	3,035	3,143	3,080	3,210
Ill, disabled	3,636	3,866	119	77	1,798	2,009	1,719	1,779	1,885	1,976	1,751	1,889
Keeping house	20,869	20,529	1,222	1,091	9,739	9,530	9,908	9,908	372	372	20,497	20,157
Retired	16,140	16,474	--	--	400	388	15,740	16,086	9,870	9,967	6,270	6,506
Other activity	2,762	2,696	396	331	1,859	1,909	507	456	1,408	1,309	1,354	1,387
Want a job now	3,562	3,783	1,035	1,134	1,994	2,119	534	530	1,214	1,346	2,348	2,437
Reason for not looking:												
School attendance	810	839	599	666	211	173	--	--	401	398	409	441
Ill health, disability	628	720	40	71	426	485	162	164	310	364	317	356
Home responsibility	868	794	163	163	656	593	49	39	--	--	868	794
Think cannot get a job	555	642	116	129	303	378	137	136	245	251	310	391
Other reasons ¹	701	787	118	105	397	490	186	192	257	332	444	455
BLACK												
Total not in labor force	7,601	7,889	1,986	2,145	2,798	2,902	2,818	2,842	2,800	2,872	4,801	5,016
Do not want a job now	6,323	6,464	1,462	1,537	2,145	2,176	2,716	2,751	2,344	2,425	3,980	4,039
Current activity:												
Going to school	1,242	1,261	1,138	1,167	103	90	2	4	591	623	651	637
Ill, disabled	915	1,045	19	31	524	576	371	438	446	518	469	527
Keeping house	2,077	2,114	173	213	1,035	1,108	869	793	68	91	2,009	2,023
Retired	1,477	1,519	--	--	35	29	1,442	1,490	904	876	573	643
Other activity	612	525	132	126	448	374	31	26	334	317	278	209
Want a job now	1,278	1,425	524	608	652	726	102	91	456	447	822	978
Reason for not looking:												
School attendance	349	464	298	384	51	77	--	3	146	186	203	278
Ill health, disability	267	194	10	19	189	144	68	31	121	73	146	121
Home responsibility	290	287	96	107	192	180	1	--	--	--	290	287
Think cannot get a job	223	261	63	45	145	182	15	34	115	106	108	155
Other reasons ¹	150	219	57	53	75	142	17	24	75	82	75	136
HISPANIC ORIGIN												
Total not in labor force	4,572	4,963	1,247	1,320	2,114	2,368	1,212	1,276	1,262	1,403	3,310	3,561
Do not want a job now	4,079	4,354	1,102	1,084	1,799	2,027	1,178	1,244	1,085	1,198	2,993	3,156
Current activity:												
Going to school	668	727	606	679	62	46	--	3	314	345	354	383
Ill, disabled	350	428	21	9	238	292	91	126	192	230	158	198
Keeping house	2,161	2,312	395	328	1,305	1,498	460	486	55	79	2,106	2,233
Retired	617	632	--	--	10	9	607	623	371	417	246	215
Other activity	283	255	79	68	185	181	19	6	153	128	130	127
Want a job now	517	658	192	220	307	394	18	43	174	192	343	466
Reason for not looking:												
School attendance	90	120	71	94	19	26	--	--	49	51	41	68
Ill health, disability	71	118	9	10	58	78	5	30	48	52	23	67
Home responsibility	156	174	41	48	115	126	--	--	--	--	156	174
Think cannot get a job	119	140	44	41	65	90	10	9	55	42	64	98
Other reasons ¹	81	105	28	28	51	74	3	4	22	47	60	59

¹ Includes small number of men not looking for work because of "home responsibilities."

NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the other races are not presented and Hispanics are included in both the white and black population groups.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-56. Persons not in the labor force who desire work but think they cannot get jobs by reason, sex, age, race, and Hispanic origin

(in thousands)

Reason and sex	4th Quarter 1990							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
TOTAL								
Personal factors:								
Employers think too young or old	123	12	--	23	88	93	27	17
Lacks education or training	134	25	5	99	6	90	36	25
Other personal handicap	94	8	18	61	7	67	27	7
Job-market factors:								
Could not find work	390	24	66	257	43	231	132	77
Thinks no job available	213	2	22	159	30	162	39	13
Men								
Personal factors:								
Employers think too young or old	57	4	--	5	48	39	17	9
Lacks education or training	38	18	3	16	--	27	10	6
Other personal handicap	46	5	4	32	5	35	11	--
Job-market factors:								
Could not find work	151	13	40	82	16	88	49	24
Thinks no job available	87	1	7	54	24	62	19	3
Women								
Personal factors:								
Employers think too young or old	66	8	--	18	40	54	9	8
Lacks education or training	96	6	2	83	5	63	26	19
Other personal handicap	49	3	14	29	2	32	16	7
Job-market factors:								
Could not find work	239	11	26	175	27	143	84	53
Thinks no job available	126	1	15	105	7	100	20	10

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-57. Work-seeking intentions of persons not in the labor force and work history of those who intend to seek work within the next 12 months by sex, age, and race

(In thousands)

Work-seeking intentions, work history, and sex	Total		Age						Race			
	IV 1989	IV 1990	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL												
Do not intend to seek work	53,198	54,146	5,672	5,876	16,306	16,641	31,220	31,629	45,695	46,217	5,870	6,044
Intend to seek work in the next 12 months	9,461	9,727	4,969	5,067	3,884	4,044	607	616	7,390	7,484	1,731	1,845
Never worked	1,391	1,414	1,209	1,244	177	167	6	3	884	877	444	417
Last worked over 5 years ago	1,051	1,075	30	37	804	849	217	189	818	759	205	280
Last worked 1 to 5 years ago	1,966	2,224	542	660	1,202	1,365	221	199	1,520	1,686	362	448
Worked during the previous 12 months	5,052	5,014	3,187	3,126	1,701	1,664	164	224	4,168	4,162	719	700
Men												
Do not intend to seek work	17,645	18,046	2,196	2,436	3,222	3,267	12,227	12,343	14,941	15,176	2,159	2,226
Intend to seek work in the next 12 months	3,622	3,768	2,418	2,348	933	1,083	270	337	2,842	2,938	641	646
Never worked	633	608	600	574	33	33	--	--	399	401	205	154
Last worked over 5 years ago	209	237	12	11	114	145	84	81	156	169	49	51
Last worked 1 to 5 years ago	528	681	168	208	244	361	116	112	401	562	98	87
Worked during the previous 12 months	2,251	2,242	1,639	1,555	542	543	70	144	1,886	1,806	289	354
Women												
Do not intend to seek work	35,553	36,100	3,476	3,439	13,083	13,375	18,994	19,286	30,753	31,041	3,712	3,817
Intend to seek work in the next 12 months	5,839	5,959	2,551	2,718	2,952	2,962	337	279	4,548	4,546	1,090	1,199
Never worked	759	806	609	669	144	134	6	3	484	476	239	263
Last worked over 5 years ago	842	837	18	25	690	704	133	108	662	591	157	228
Last worked 1 to 5 years ago	1,437	1,543	374	452	958	1,004	105	87	1,119	1,124	264	361
Worked during the previous 12 months	2,801	2,772	1,549	1,571	1,159	1,121	93	80	2,282	2,355	431	346

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-58. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL								
Civilian noninstitutional population	187,018	188,696	159,738	160,830	21,136	21,416	13,977	14,474
Civilian labor force	124,359	124,824	106,698	107,108	13,535	13,527	9,405	9,511
Percent of population	66.5	66.2	66.8	66.6	64.0	63.2	67.3	65.7
Employed	118,020	117,732	102,084	101,899	12,011	11,928	8,667	8,695
Agriculture	3,068	3,093	2,865	2,876	137	136	454	426
Nonagricultural industries	114,952	114,639	99,218	99,022	11,874	11,792	8,213	8,269
Unemployed	6,339	7,092	4,614	5,209	1,524	1,599	739	816
Unemployment rate	5.1	5.7	4.3	4.9	11.3	11.8	7.9	8.6
Not in labor force	62,658	63,872	53,040	53,722	7,601	7,889	4,572	4,963
Men, 16 years and over								
Civilian noninstitutional population	89,077	89,985	76,678	77,309	9,492	9,621	6,921	7,177
Civilian labor force	67,811	68,171	58,918	59,159	6,692	6,748	5,659	5,775
Percent of population	76.1	75.8	76.8	76.5	70.5	70.1	81.8	80.5
Employed	64,354	64,174	56,343	56,141	5,922	5,919	5,211	5,257
Agriculture	2,414	2,446	2,246	2,262	119	117	407	378
Nonagricultural industries	61,940	61,728	54,097	53,879	5,803	5,802	4,804	4,879
Unemployed	3,457	3,997	2,575	3,018	770	829	448	518
Unemployment rate	5.1	5.9	4.4	5.1	11.5	12.3	7.9	9.0
Not in labor force	21,267	21,814	17,760	18,150	2,800	2,872	1,262	1,403
Men, 20 years and over								
Civilian noninstitutional population	81,976	83,105	70,933	71,786	8,416	8,557	6,207	6,450
Civilian labor force	63,902	64,597	55,616	56,097	6,218	6,342	5,267	5,397
Percent of population	78.0	77.7	78.4	78.1	73.9	74.1	84.9	83.7
Employed	61,087	61,229	53,510	53,550	5,595	5,649	4,905	4,968
Agriculture	2,256	2,279	2,092	2,109	116	110	379	348
Nonagricultural industries	58,831	58,950	51,418	51,441	5,479	5,540	4,526	4,620
Unemployed	2,815	3,368	2,106	2,547	623	693	362	429
Unemployment rate	4.4	5.2	3.8	4.5	10.0	10.9	6.9	8.0
Not in labor force	18,074	18,508	15,318	15,688	2,198	2,215	939	1,052
Women, 16 years and over								
Civilian noninstitutional population	97,940	98,711	83,060	83,521	11,644	11,795	7,056	7,297
Civilian labor force	56,549	56,653	47,780	47,949	6,843	6,779	3,746	3,736
Percent of population	57.7	57.4	57.5	57.4	58.8	57.5	53.1	51.2
Employed	53,666	53,558	45,741	45,758	6,089	6,009	3,456	3,438
Agriculture	654	647	619	614	18	19	48	48
Nonagricultural industries	53,013	52,911	45,122	45,144	6,071	5,991	3,408	3,390
Unemployed	2,882	3,095	2,039	2,191	754	770	290	298
Unemployment rate	5.1	5.5	4.3	4.6	11.0	11.4	7.7	8.0
Not in labor force	41,392	42,058	35,280	35,573	4,801	5,016	3,310	3,561
Women, 20 years and over								
Civilian noninstitutional population	90,952	91,954	77,420	78,109	10,548	10,720	6,371	6,587
Civilian labor force	52,906	53,404	44,673	45,150	6,417	6,409	3,471	3,478
Percent of population	58.2	58.1	57.7	57.8	60.8	59.8	54.5	52.8
Employed	50,497	50,788	42,969	43,293	5,791	5,766	3,220	3,225
Agriculture	616	618	584	584	18	19	45	46
Nonagricultural industries	49,881	50,170	42,385	42,709	5,773	5,748	3,175	3,179
Unemployed	2,408	2,616	1,704	1,857	626	643	251	253
Unemployment rate	4.6	4.9	3.8	4.1	9.7	10.0	7.2	7.3
Not in labor force	38,046	38,550	32,747	32,959	4,131	4,311	2,900	3,109
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,090	13,637	11,385	10,936	2,172	2,139	1,400	1,438
Civilian labor force	7,551	6,824	6,409	5,860	900	776	667	636
Percent of population	53.6	50.0	56.3	53.6	41.4	36.3	47.6	44.2
Employed	6,435	5,715	5,605	5,056	625	513	541	502
Agriculture	195	196	189	183	3	8	30	33
Nonagricultural industries	6,240	5,519	5,415	4,873	622	505	511	470
Unemployed	1,116	1,108	805	805	275	263	125	133
Unemployment rate	14.8	16.2	12.6	13.7	30.6	33.9	18.8	21.0
Not in labor force	6,539	6,814	4,976	5,075	1,272	1,363	733	802

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-59. Employment status of civilians of Mexican, Puerto Rican, and Cuban origin by sex and age

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL								
Civilian noninstitutional population	13,977	14,474	8,419	8,816	1,546	1,609	873	829
Civilian labor force	9,405	9,511	5,751	5,850	900	892	549	533
Percent of population	67.3	65.7	68.3	66.4	58.3	55.5	62.9	64.3
Employed	8,667	8,695	5,267	5,345	812	799	524	490
Agriculture	454	426	407	384	10	8	4	3
Nonagricultural industries	8,213	8,269	4,860	4,961	801	792	520	487
Unemployed	739	816	484	505	89	93	25	43
Unemployment rate	7.9	8.6	8.4	8.6	9.8	10.4	4.5	8.0
Not in labor force	4,572	4,963	2,668	2,966	645	717	324	295
Men, 16 years and over								
Civilian noninstitutional population	6,921	7,177	4,323	4,551	679	699	429	407
Civilian labor force	5,659	5,775	3,597	3,734	515	501	316	301
Percent of population	81.8	80.5	83.2	82.1	75.8	71.6	73.6	74.0
Employed	5,211	5,257	3,290	3,405	463	445	304	279
Agriculture	407	378	363	343	8	6	4	3
Nonagricultural industries	4,804	4,879	2,927	3,062	456	439	300	276
Unemployed	448	518	307	329	52	55	12	22
Unemployment rate	7.9	9.0	8.5	8.8	10.1	11.0	3.7	7.3
Not in labor force	1,262	1,403	725	817	164	198	113	106
Men, 20 years and over								
Civilian noninstitutional population	6,207	6,450	3,860	4,041	610	638	408	388
Civilian labor force	5,267	5,397	3,328	3,447	485	480	306	292
Percent of population	84.9	83.7	86.2	85.3	79.4	75.3	74.9	75.4
Employed	4,905	4,968	3,082	3,180	444	434	294	272
Agriculture	379	348	336	312	8	6	4	3
Nonagricultural industries	4,526	4,620	2,746	2,868	436	428	290	269
Unemployed	362	429	246	267	41	46	11	20
Unemployment rate	6.9	8.0	7.4	7.7	8.4	9.5	3.7	6.8
Not in labor force	939	1,052	532	594	126	158	102	95
Women, 16 years and over								
Civilian noninstitutional population	7,056	7,297	4,097	4,265	866	910	444	422
Civilian labor force	3,748	3,736	2,154	2,116	385	392	233	232
Percent of population	53.1	51.2	52.6	49.6	44.4	43.0	52.5	55.0
Employed	3,456	3,438	1,977	1,940	348	354	220	211
Agriculture	48	48	43	41	3	1	—	—
Nonagricultural industries	3,408	3,390	1,934	1,899	346	352	220	211
Unemployed	290	298	177	176	37	38	13	21
Unemployment rate	7.7	8.0	8.2	8.3	9.5	9.6	5.5	9.0
Not in labor force	3,310	3,561	1,943	2,149	481	518	211	190
Women, 20 years and over								
Civilian noninstitutional population	6,371	6,587	3,886	3,789	776	826	420	399
Civilian labor force	3,471	3,478	1,979	1,943	352	362	222	220
Percent of population	54.5	52.8	54.0	51.3	45.3	43.8	52.8	55.2
Employed	3,220	3,225	1,826	1,800	321	332	209	201
Agriculture	45	46	41	39	3	1	—	—
Nonagricultural industries	3,175	3,179	1,785	1,761	318	330	209	201
Unemployed	251	253	153	143	31	30	13	19
Unemployment rate	7.2	7.3	7.7	7.4	8.8	8.4	5.8	8.7
Not in labor force	2,900	3,109	1,687	1,846	424	464	198	178
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,400	1,438	893	985	159	145	44	42
Civilian labor force	667	636	445	459	64	50	21	21
Percent of population	47.6	44.2	49.8	46.6	40.2	34.3	(²)	(²)
Employed	541	502	359	365	47	33	21	17
Agriculture	30	33	30	33	—	—	—	—
Nonagricultural industries	511	470	329	332	47	33	21	17
Unemployed	125	133	85	95	17	17	1	4
Unemployment rate	18.8	21.0	19.2	20.6	26.3	(²)	(²)	(²)
Not in labor force	733	802	449	526	95	95	23	22

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-60. Employed civilians by selected social and economic categories, race, and Hispanic origin

(In thousands)

Category	Total		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
CHARACTERISTIC								
Total (all civilian workers)	118,020	117,732	102,084	101,899	12,011	11,928	8,667	8,695
Men	64,354	64,174	56,343	56,141	5,922	5,919	5,211	5,257
Women	53,666	53,558	45,741	45,758	6,089	6,009	3,456	3,438
OCCUPATION								
Managerial and professional specialty	30,848	30,853	27,841	27,804	1,909	1,948	1,079	1,125
Executive, administrative, and managerial	14,810	14,737	13,522	13,417	854	868	580	580
Professional specialty	16,038	16,116	14,319	14,387	1,055	1,080	499	545
Technical, sales, and administrative support	36,617	36,520	32,048	31,991	3,388	3,390	2,130	2,059
Technicians and related support	3,670	3,818	3,145	3,294	344	356	168	151
Sales occupations	14,358	14,141	12,996	12,807	920	903	750	717
Administrative support, including clerical	18,589	18,561	15,907	15,889	2,125	2,131	1,211	1,191
Service occupations	15,374	15,788	12,057	12,425	2,718	2,728	1,713	1,789
Private household	839	790	597	570	214	195	146	167
Protective service	1,903	1,950	1,562	1,580	305	327	141	118
Service, except private household and protective	12,632	13,049	9,898	10,274	2,200	2,206	1,426	1,504
Precision production, craft, and repair	13,930	13,518	12,466	12,120	1,087	1,026	1,228	1,138
Mechanics and repairers	4,509	4,455	4,042	3,985	359	358	372	295
Construction trades	5,299	5,100	4,859	4,657	330	338	495	439
Other precision production, craft, and repair	4,123	3,962	3,565	3,479	398	331	360	404
Operators, fabricators, and laborers	18,047	17,854	14,727	14,614	2,711	2,655	2,052	2,133
Machine operators, assemblers, and inspectors	8,183	8,069	6,648	6,586	1,193	1,152	1,044	1,074
Transportation and material moving occupations	4,961	4,998	4,135	4,119	714	770	439	444
Handlers, equipment cleaners, helpers, and laborers	4,903	4,787	3,943	3,909	804	733	569	614
Construction laborers	721	705	605	590	95	91	99	118
Other handlers, equipment cleaners, helpers, and laborers	4,182	4,081	3,338	3,319	709	642	470	497
Farming, forestry, and fishing	3,204	3,198	2,945	2,945	197	181	465	450
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,601	1,631	1,446	1,465	107	110	404	361
Self-employed workers	1,360	1,367	1,317	1,322	27	23	51	63
Unpaid family workers	106	95	103	90	3	3	-	1
Nonagricultural industries:								
Wage and salary workers	105,997	105,460	91,000	90,632	11,463	11,331	7,737	7,787
Government	17,974	17,955	14,715	14,696	2,662	2,637	950	1,009
Private industries	88,023	87,505	76,284	75,935	8,801	8,694	6,787	6,778
Private households	1,030	1,008	749	737	246	243	168	187
Other industries	86,993	86,497	75,535	75,198	8,555	8,451	6,619	6,591
Self-employed workers	8,703	8,946	7,987	8,180	406	459	465	468
Unpaid family workers	252	233	232	211	4	3	11	14
FULL- AND PART-TIME STATUS¹								
Full-time schedules	95,931	95,298	82,679	82,198	10,061	9,882	7,257	7,143
Part time for economic reasons	4,627	5,302	3,736	4,358	701	776	557	677
Part time for noneconomic reasons	17,462	17,132	15,641	15,342	1,250	1,271	852	876

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

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-61. Employed civilians of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

(In thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
CHARACTERISTIC								
Total (all civilian workers)	8,667	8,695	5,267	5,345	812	799	524	490
Men	5,211	5,257	3,290	3,405	463	445	304	279
Women	3,456	3,438	1,977	1,940	348	354	220	211
OCCUPATION								
Managerial and professional specialty	1,079	1,125	544	554	119	124	105	102
Executive, administrative, and managerial	580	580	310	281	70	61	57	49
Professional specialty	499	545	233	273	49	64	47	52
Technical, sales, and administrative support	2,130	2,059	1,150	1,134	259	245	172	173
Technicians and related support	168	151	88	76	25	22	13	8
Sales occupations	750	717	406	397	70	75	62	68
Administrative support, including clerical	1,211	1,191	656	661	164	148	97	96
Service occupations	1,713	1,789	1,025	1,043	150	142	70	71
Private household	146	167	73	82	4	1	1	1
Protective service	141	118	77	62	25	19	17	14
Service, except private household and protective	1,426	1,504	876	900	122	121	52	56
Precision production, craft, and repair	1,228	1,138	767	746	120	100	70	57
Mechanics and repairers	372	295	208	170	50	33	23	11
Construction trades	495	439	336	319	33	21	28	21
Other precision production, craft, and repair	360	404	222	258	37	46	19	25
Operators, fabricators, and laborers	2,052	2,133	1,371	1,466	149	175	102	81
Machine operators, assemblers, and inspectors	1,044	1,074	695	756	73	80	50	37
Transportation and material moving occupations	439	444	277	288	36	51	29	20
Handlers, equipment cleaners, helpers, and laborers	569	614	399	422	41	44	23	24
Construction laborers	99	118	74	95	3	2	2	1
Other handlers, equipment cleaners, helpers, and laborers	470	497	325	327	39	42	20	23
Farming, forestry, and fishing	465	450	411	401	13	13	5	7
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	404	361	369	332	6	7	5	2
Self-employed workers	51	63	39	51	5	1	-	-
Unpaid family workers	-	1	-	1	-	-	-	-
Nonagricultural industries:								
Wage and salary workers	7,737	7,787	4,605	4,709	768	759	476	445
Government	950	1,009	591	605	115	136	53	57
Private industries	6,787	6,778	4,014	4,104	653	624	423	388
Private households	168	187	89	96	4	3	1	1
Other industries	6,619	6,591	3,925	4,008	649	621	422	387
Self-employed workers	465	468	248	241	33	32	44	42
Unpaid family workers	11	14	7	10	1	-	-	-
FULL- AND PART-TIME STATUS²								
Full-time schedules	7,257	7,143	4,372	4,347	699	683	464	423
Part time for economic reasons	557	677	413	474	29	32	17	15
Part time for noneconomic reasons	852	876	482	524	84	85	43	52

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

² Employed persons with a job but not at work are distributed according to whether they usually work full or part time.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-62. Employed civilians by sex, age, race, and Hispanic origin

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
Total, 16 years and over	118,020	117,732	102,084	101,899	12,011	11,928	8,667	8,695
16 to 19 years	6,435	5,715	5,605	5,056	625	513	541	502
16 to 17 years	2,452	2,095	2,167	1,876	216	165	165	146
18 to 19 years	3,983	3,620	3,437	3,179	410	347	376	357
20 to 24 years	12,614	12,451	10,790	10,729	1,425	1,311	1,331	1,331
25 years and over	98,970	99,566	85,689	86,114	9,960	10,105	6,794	6,862
25 to 54 years	84,008	84,598	72,380	72,853	8,699	8,789	6,112	6,174
55 years and over	14,962	14,968	13,309	13,262	1,261	1,316	682	688
Men, 16 years and over	64,354	64,174	56,343	56,141	5,922	5,919	5,211	5,257
16 to 19 years	3,266	2,945	2,833	2,592	327	270	305	289
16 to 17 years	1,214	1,066	1,070	952	111	86	96	85
18 to 19 years	2,052	1,879	1,763	1,639	216	184	209	203
20 to 24 years	6,595	6,477	5,685	5,592	705	680	834	842
25 years and over	54,492	54,752	47,825	47,957	4,890	4,969	4,072	4,126
25 to 54 years	46,012	46,234	40,179	40,326	4,261	4,294	3,682	3,717
55 years and over	8,480	8,518	7,646	7,631	628	676	390	409
Women, 16 years and over	53,666	53,558	45,741	45,758	6,089	6,009	3,456	3,438
16 to 19 years	3,169	2,771	2,772	2,464	298	243	236	213
16 to 17 years	1,238	1,029	1,097	924	105	79	69	60
18 to 19 years	1,931	1,741	1,675	1,540	193	164	167	153
20 to 24 years	6,019	5,974	5,105	5,136	720	631	497	489
25 years and over	44,478	44,814	37,864	38,157	5,071	5,136	2,723	2,736
25 to 54 years	37,996	38,363	32,202	32,526	4,438	4,495	2,431	2,457
55 years and over	6,482	6,450	5,663	5,631	633	640	292	279

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

A-63. Unemployment rates by sex, age, race, and Hispanic origin

(Civilian workers)

Sex and age	Total		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
Total, 16 years and over	5.1	5.7	4.3	4.9	11.3	11.8	7.9	8.6
16 to 19 years	14.8	16.2	12.6	13.7	30.6	33.9	18.8	21.0
16 to 17 years	17.0	18.6	15.1	16.2	31.9	39.1	23.9	31.0
18 to 19 years	13.4	14.8	10.9	12.2	29.8	31.1	16.3	16.0
20 to 24 years	8.3	8.8	6.9	7.1	18.5	20.5	10.4	9.7
25 years and over	4.0	4.6	3.4	4.0	8.5	9.0	6.3	7.3
25 to 54 years	4.1	4.8	3.5	4.2	8.9	9.6	6.4	7.5
55 years and over	3.1	3.3	2.9	3.2	5.5	4.8	6.2	5.6
Men, 16 years and over	5.1	5.9	4.4	5.1	11.5	12.3	7.9	9.0
16 to 19 years	16.4	17.6	14.2	15.4	31.0	33.6	22.0	23.4
16 to 17 years	19.4	20.2	17.4	18.1	34.0	38.7	26.1	33.2
18 to 19 years	14.6	16.0	12.2	13.7	29.4	30.9	20.0	18.4
20 to 24 years	8.9	9.3	7.3	7.8	19.8	20.3	10.0	9.6
25 years and over	3.8	4.7	3.3	4.2	8.4	9.5	6.2	7.6
25 to 54 years	3.9	4.9	3.4	4.3	8.6	10.0	6.1	7.7
55 years and over	3.4	3.8	3.1	3.6	7.0	5.8	7.4	6.8
Women, 16 years and over	5.1	5.5	4.3	4.6	11.0	11.4	7.7	8.0
16 to 19 years	13.0	14.7	10.8	11.9	30.1	34.4	14.1	17.3
16 to 17 years	14.5	16.8	12.7	14.1	29.7	39.7	20.6	27.5
18 to 19 years	12.0	13.5	9.5	10.6	30.3	31.4	11.1	12.5
20 to 24 years	7.8	8.2	6.4	6.3	17.1	20.7	10.9	9.9
25 years and over	4.1	4.4	3.5	3.8	8.6	8.5	6.5	6.8
25 to 54 years	4.3	4.7	3.6	4.0	9.2	9.2	6.8	7.1
55 years and over	2.8	2.7	2.7	2.6	4.0	3.6	4.5	3.7

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-64. Unemployed persons by duration of unemployment, race, and Hispanic origin

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
DURATION								
Total, 16 years and over	6,339	7,092	4,614	5,209	1,524	1,599	739	816
Less than 5 weeks	3,116	3,152	2,326	2,377	685	646	407	402
5 to 14 weeks	1,951	2,366	1,417	1,714	471	555	207	257
15 weeks and over	1,273	1,574	871	1,119	368	398	125	157
15 to 26 weeks	667	847	462	615	185	200	66	96
27 weeks and over	606	727	409	503	183	198	59	61
Average (mean) duration, in weeks	11.7	12.3	11.3	11.9	13.1	13.6	10.4	10.4
Median duration, in weeks	4.7	5.6	4.5	5.4	5.7	6.6	4.1	4.7
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	49.1	44.4	50.4	45.6	44.9	40.4	55.1	49.2
5 to 14 weeks	30.8	33.4	30.7	32.9	30.9	34.7	28.0	31.5
15 weeks and over	20.1	22.2	18.9	21.5	24.2	24.9	16.9	19.3
15 to 26 weeks	10.5	11.9	10.0	11.8	12.1	12.5	8.9	11.8
27 weeks and over	9.6	10.3	8.9	9.7	12.0	12.4	8.0	7.5

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.

A-65. Unemployed persons by reason for unemployment, race, and Hispanic origin

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,339	7,092	4,614	5,209	1,524	1,599	739	816
Job losers	2,940	3,603	2,211	2,712	659	767	386	437
On layoff	855	1,059	709	871	126	154	96	97
Other job losers	2,085	2,544	1,503	1,841	534	613	290	341
Job leavers	1,022	996	798	780	185	175	108	109
Reentrants	1,783	1,908	1,256	1,349	461	472	167	169
New entrants	594	585	349	369	218	185	78	100
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	46.4	50.8	47.9	52.1	43.3	48.0	52.3	53.6
On layoff	13.5	14.9	15.4	16.7	8.2	9.6	13.1	11.8
Other job losers	32.9	35.9	32.6	35.3	35.0	38.3	39.2	41.7
Job leavers	16.1	14.0	17.3	15.0	12.2	10.9	14.7	13.4
Reentrants	28.1	26.9	27.2	25.9	30.3	29.5	22.5	20.7
New entrants	9.4	8.2	7.6	7.1	14.3	11.6	10.5	12.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.4	2.9	2.1	2.5	4.9	5.7	4.1	4.6
Job leavers .....	.8	.8	.7	.7	1.4	1.3	1.2	1.1
Reentrants	1.4	1.5	1.2	1.3	3.4	3.5	1.8	1.8
New entrants .....	.5	.5	.3	.3	1.6	1.4	.8	1.1

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-66. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	IV 1989	IV 1990	Total		Employed		Unemployed			
			IV 1989	IV 1990	IV 1989	IV 1990	Number		Percent of labor force	
							IV 1989	IV 1990	IV 1989	IV 1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,521	7,693	6,874	7,003	6,603	6,670	271	333	3.9	4.8
35 to 49 years	6,497	6,499	6,163	6,147	5,941	5,850	222	298	3.6	4.8
35 to 39 years	1,615	1,318	1,519	1,231	1,461	1,148	58	84	3.8	6.8
40 to 44 years	3,307	3,232	3,158	3,073	3,040	2,944	118	129	3.7	4.2
45 to 49 years	1,575	1,949	1,486	1,843	1,440	1,758	46	85	3.1	4.6
50 years and over	1,024	1,194	712	856	662	820	49	36	6.9	4.2
NONVETERANS										
Total, 35 to 49 years	16,623	17,767	15,623	16,699	15,068	15,981	556	718	3.6	4.3
35 to 39 years	7,604	8,140	7,223	7,755	6,952	7,403	271	351	3.8	4.5
40 to 44 years	4,872	5,424	4,577	5,064	4,434	4,874	143	189	3.1	3.7
45 to 49 years	4,146	4,203	3,824	3,880	3,682	3,703	142	177	3.7	4.6

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

A-67. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
Total, 35 to 49 years												
Civilian noninstitutional population	5,794	5,787	590	599	217	249	14,197	15,171	1,671	1,762	1,535	1,602
Civilian labor force	5,535	5,522	523	522	208	233	13,483	14,401	1,454	1,553	1,424	1,460
Employed	5,344	5,275	495	480	198	221	13,075	13,857	1,331	1,415	1,343	1,332
Unemployed	191	247	28	42	11	13	408	544	123	138	81	128
Unemployment rate	3.4	4.5	5.3	8.1	5.5	5.4	3.0	3.8	8.4	8.9	5.7	8.7
35 to 39 years												
Civilian noninstitutional population	1,420	1,121	170	180	69	62	6,517	7,014	758	779	678	738
Civilian labor force	1,358	1,068	139	150	63	59	6,252	6,734	674	709	628	685
Employed	1,311	1,008	130	127	60	54	6,055	6,458	610	647	587	625
Unemployed	48	60	9	23	4	5	198	276	64	63	42	60
Unemployment rate	3.5	5.6	6.7	15.1	5.6	(¹)	3.2	4.1	9.5	8.9	6.6	8.7
40 to 44 years												
Civilian noninstitutional population	2,973	2,909	275	269	94	119	4,163	4,614	487	548	488	503
Civilian labor force	2,848	2,785	254	236	93	109	3,950	4,355	411	467	456	460
Employed	2,747	2,674	238	222	85	104	3,847	4,217	377	426	440	424
Unemployed	101	111	16	14	8	5	103	138	34	41	16	36
Unemployment rate	3.5	4.0	6.4	6.1	8.5	4.6	2.6	3.2	8.4	8.8	3.5	7.8
45 to 49 years												
Civilian noninstitutional population	1,401	1,757	144	150	54	68	3,517	3,542	425	435	368	360
Civilian labor force	1,329	1,669	130	135	52	66	3,281	3,311	369	377	340	315
Employed	1,286	1,593	128	131	52	63	3,173	3,182	345	343	316	283
Unemployed	42	76	2	5	-	3	108	130	24	34	24	32
Unemployment rate	3.2	4.6	1.8	3.6	(¹)	4.2	3.3	3.9	6.5	9.1	7.0	10.1

¹ Data not shown where base is less than 60,000.
NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data are limited to those 35 to 49 years of age, the group that most closely corresponds

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-68. Unemployment in families by type of family, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Type of family, race, and Hispanic origin	IV 1989					IV 1990				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	Percent of families:		
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL										
Total families	65,409	4,663	28.7	71.3	64.3	65,742	5,164	28.8	71.2	63.0
With children under 18 years of age	31,866	2,635	32.7	67.3	61.6	31,879	2,902	33.8	66.2	58.6
Married-couple families	51,402	3,174	17.7	82.3	75.4	51,495	3,462	17.8	82.2	73.5
With children under 18 years of age	24,028	1,813	17.1	82.9	76.9	23,879	1,976	18.1	81.9	73.3
Families maintained by women	11,167	1,231	54.8	45.2	37.6	11,339	1,389	52.8	47.2	39.5
With children under 18 years of age	6,667	728	68.4	31.6	26.9	6,795	804	66.8	33.2	27.3
Families maintained by men	2,841	257	40.9	59.1	54.5	2,908	313	44.1	55.9	50.8
With children under 18 years of age	1,171	95	57.9	42.1	36.8	1,205	122	71.3	28.7	25.4
White										
Total families	56,028	3,450	24.5	75.5	68.4	56,211	3,828	25.3	74.7	66.4
With children under 18 years of age	26,446	1,918	27.0	73.0	67.1	26,405	2,126	28.7	71.3	63.2
Married-couple families	46,281	2,621	17.7	82.3	75.3	46,359	2,864	18.0	82.0	73.4
With children under 18 years of age	21,220	1,479	17.3	82.7	76.5	21,064	1,614	18.3	81.7	73.0
Families maintained by women	7,505	631	47.9	52.1	43.6	7,558	740	47.4	52.6	44.3
With children under 18 years of age	4,296	364	59.9	40.1	34.9	4,391	421	60.1	39.9	32.8
Families maintained by men	2,242	198	40.4	59.6	56.1	2,294	223	45.5	54.5	49.1
With children under 18 years of age	930	75	58.7	41.3	38.7	949	91	68.1	31.9	28.6
Black										
Total families	7,341	1,060	42.8	57.2	50.3	7,417	1,127	41.0	59.0	51.3
With children under 18 years of age	4,212	621	51.0	49.0	43.8	4,231	654	50.8	49.2	43.0
Married-couple families	3,559	434	16.8	83.2	76.0	3,517	446	15.5	84.5	75.1
With children under 18 years of age	1,856	256	15.2	84.8	78.9	1,834	265	15.1	84.9	75.8
Families maintained by women	3,321	577	62.0	38.0	31.4	3,416	609	59.9	40.1	33.2
With children under 18 years of age	2,160	348	76.9	23.1	18.7	2,198	366	74.6	25.4	21.0
Families maintained by men	461	49	(¹)	(¹)	(¹)	483	72	38.9	61.1	56.9
With children under 18 years of age	196	17	(¹)	(¹)	(¹)	198	23	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,847	581	25.8	74.2	67.6	4,879	593	28.2	71.8	63.6
With children under 18 years of age	3,071	378	30.7	69.3	64.6	3,122	391	30.7	69.3	61.1
Married-couple families	3,376	413	18.6	81.4	75.1	3,367	401	21.2	78.8	70.1
With children under 18 years of age	2,158	279	21.5	78.5	73.8	2,193	288	21.9	78.1	69.8
Families maintained by women	1,129	127	48.8	51.2	42.5	1,170	141	41.8	58.2	49.6
With children under 18 years of age	780	88	56.8	43.2	37.5	804	87	51.7	48.3	37.9
Families maintained by men	342	41	(¹)	(¹)	(¹)	342	51	(¹)	(¹)	(¹)
With children under 18 years of age	133	11	(¹)	(¹)	(¹)	126	15	(¹)	(¹)	(¹)

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

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-69. Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	IV 1989				IV 1990			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed in families ¹	5,182	30.7	69.3	62.4	5,686	30.2	69.8	61.7
Husbands	1,141	35.6	64.4	52.2	1,376	33.4	66.6	51.7
With children under 18 years of age	662	41.9	58.1	46.9	817	38.0	62.0	46.1
Wives	1,074	14.2	85.8	81.0	1,158	15.0	85.0	79.7
With children under 18 years of age	687	11.0	89.0	85.0	736	13.8	86.2	81.3
Relatives in married-couple families	1,270	9.4	90.6	86.3	1,243	9.8	90.2	85.4
Women who maintain families	544	84.1	15.9	10.2	597	82.8	17.2	10.2
With children under 18 years of age	452	92.7	7.3	3.0	483	94.0	6.0	2.6
Relatives in families maintained by women	871	37.5	62.5	54.0	964	32.4	67.6	59.7
Men who maintain families	116	63.9	36.1	31.0	148	69.3	30.7	26.5
With children under 18 years of age	58	(²)	(²)	(²)	87	90.6	9.4	6.1
Relatives in families maintained by men	167	30.8	69.2	66.0	201	27.2	72.8	67.6
White								
Total unemployed in families ¹	3,738	26.5	73.5	66.4	4,145	26.9	73.1	64.8
Husbands	956	35.8	64.2	51.8	1,149	34.3	65.7	50.1
With children under 18 years of age	543	42.4	57.6	45.5	660	39.6	60.4	43.4
Wives	897	14.0	86.0	81.4	976	14.1	85.9	81.5
With children under 18 years of age	556	9.7	90.3	86.9	610	12.9	87.1	83.3
Relatives in married-couple families	984	8.7	91.3	86.9	969	9.8	90.2	86.1
Women who maintain families	250	78.1	21.9	14.3	303	76.2	23.8	15.7
With children under 18 years of age	201	89.9	10.1	4.8	234	91.1	8.9	3.8
Relatives in families maintained by women	434	34.0	66.0	57.5	499	28.9	71.1	62.4
Men who maintain families	89	65.1	34.9	31.1	110	70.5	29.5	24.1
With children under 18 years of age	45	(²)	(²)	(²)	67	89.1	10.9	7.2
Relatives in families maintained by men	126	27.1	72.9	70.2	140	27.1	72.9	68.3
Black								
Total unemployed in families ¹	1,275	43.3	56.7	49.8	1,315	40.2	59.8	52.5
Husbands	143	29.7	70.3	58.0	171	27.4	72.6	61.4
With children under 18 years of age	91	34.7	65.3	57.6	114	29.4	70.6	59.5
Wives	133	16.1	83.9	77.8	121	16.4	83.6	75.5
With children under 18 years of age	99	17.3	82.7	76.8	86	14.1	85.9	75.8
Relatives in married-couple families	236	12.5	87.5	82.9	221	9.2	90.8	82.9
Women who maintain families	281	89.3	10.7	6.8	279	90.0	10.0	4.8
With children under 18 years of age	240	94.6	5.4	1.7	239	96.6	3.4	1.5
Relatives in families maintained by women	425	41.7	58.3	49.8	443	36.2	63.8	56.7
Men who maintain families	22	(²)	(²)	(²)	30	(²)	(²)	(²)
With children under 18 years of age	11	(²)	(²)	(²)	14	(²)	(²)	(²)
Relatives in families maintained by men	35	(²)	(²)	(²)	49	(²)	(²)	(²)
Hispanic origin								
Total unemployed in families ¹	823	28.3	71.7	84.6	656	29.3	70.7	62.4
Husbands	162	41.2	58.8	51.0	179	41.3	58.7	47.3
With children under 18 years of age	114	49.2	50.8	44.2	134	45.5	54.5	42.3
Wives	122	13.3	86.7	80.6	118	16.5	83.5	78.2
With children under 18 years of age	85	10.6	89.4	86.9	87	18.2	81.8	77.3
Relatives in married-couple families	163	7.6	92.4	83.8	149	8.2	91.8	83.6
Women who maintain families	46	(²)	(²)	(²)	52	(²)	(²)	(²)
With children under 18 years of age	38	(²)	(²)	(²)	39	(²)	(²)	(²)
Relatives in families maintained by women	85	36.4	63.6	56.2	99	25.1	74.9	67.5
Men who maintain families	20	(²)	(²)	(²)	27	(²)	(²)	(²)
With children under 18 years of age	6	(²)	(²)	(²)	12	(²)	(²)	(²)
Relatives in families maintained by men	25	(²)	(²)	(²)	33	(²)	(²)	(²)

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife or, other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns

used in aggregating the data.

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

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-70. Employed civilians by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	IV 1989				IV 1990			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in families ¹	94,676	21.9	78.1	67.6	94,035	22.4	77.6	67.1
Husbands	39,068	27.8	72.2	54.6	38,798	28.0	72.0	54.6
With children under 18 years of age	22,381	29.8	70.2	49.3	21,997	30.4	69.6	49.0
Wives	29,094	8.2	91.8	87.7	29,164	9.3	90.7	86.7
With children under 18 years of age	15,583	4.2	95.8	93.2	15,445	5.5	94.5	91.7
Relatives in married-couple families	11,457	7.1	92.9	89.7	11,148	7.2	92.8	88.9
Women who maintain families	6,420	63.3	36.7	24.8	6,421	63.9	36.1	24.8
With children under 18 years of age	4,174	79.9	20.1	9.7	4,150	81.4	18.6	9.3
Relatives in families maintained by women	4,913	24.6	75.4	67.5	4,805	24.5	75.5	65.9
Men who maintain families	2,118	54.3	45.7	35.2	2,131	56.0	44.0	33.9
With children under 18 years of age	1,001	81.9	18.1	9.8	1,001	84.9	15.1	7.4
Relatives in families maintained by men	1,605	16.4	83.6	77.9	1,567	15.2	84.8	79.3
White								
Total employed in families ¹	82,245	21.2	78.8	67.9	81,789	21.7	78.3	67.4
Husbands	35,268	28.3	71.7	53.4	34,995	28.4	71.6	53.4
With children under 18 years of age	19,922	30.5	69.5	47.3	19,597	31.1	68.9	47.1
Wives	25,914	7.8	92.2	88.2	26,036	8.8	91.2	87.2
With children under 18 years of age	13,668	3.7	96.3	93.7	13,563	4.9	95.1	92.5
Relatives in married-couple families	10,019	7.1	92.9	89.9	9,744	7.1	92.9	89.1
Women who maintain families	4,512	61.3	38.7	25.6	4,527	62.6	37.4	24.9
With children under 18 years of age	2,898	79.4	20.6	9.0	2,929	81.1	18.9	8.3
Relatives in families maintained by women	3,522	24.8	75.2	67.1	3,470	24.4	75.6	65.2
Men who maintain families	1,707	53.2	46.8	35.5	1,728	54.1	45.9	35.1
With children under 18 years of age	808	81.2	18.8	9.7	809	84.4	15.6	7.0
Relatives in families maintained by men	1,302	15.4	84.6	78.9	1,289	14.2	85.8	80.2
Black								
Total employed in families ¹	9,196	29.2	70.8	64.1	9,018	29.7	70.3	63.1
Husbands	2,570	22.4	77.6	69.3	2,543	22.2	77.8	68.0
With children under 18 years of age	1,626	22.0	78.0	69.6	1,576	21.4	78.6	68.8
Wives	2,203	13.8	86.2	82.0	2,172	14.6	85.4	80.8
With children under 18 years of age	1,307	8.5	91.5	88.8	1,296	10.9	89.1	85.5
Relatives in married-couple families	953	9.0	91.0	86.9	953	7.5	92.5	87.9
Women who maintain families	1,716	68.1	31.9	22.8	1,697	69.1	30.9	22.7
With children under 18 years of age	1,160	80.6	19.4	11.6	1,111	82.9	17.1	10.7
Relatives in families maintained by women	1,245	24.2	75.8	68.7	1,148	25.9	74.1	66.3
Men who maintain families	310	62.4	37.6	31.1	314	67.2	32.8	26.7
With children under 18 years of age	159	84.9	15.1	9.1	151	89.3	10.7	7.5
Relatives in families maintained by men	199	26.3	73.7	69.3	191	24.7	75.3	70.2
Hispanic origin								
Total employed in families ¹	6,991	25.6	74.4	67.1	7,027	25.3	74.7	67.0
Husbands	2,719	35.5	64.5	53.0	2,671	36.0	64.0	52.3
With children under 18 years of age	1,943	38.9	61.1	48.8	1,919	40.2	59.8	47.5
Wives	1,672	9.6	90.4	86.6	1,643	10.1	89.9	86.6
With children under 18 years of age	1,093	7.1	92.9	89.2	1,097	8.4	91.6	88.7
Relatives in married-couple families	1,031	6.7	93.3	90.3	1,112	7.5	92.5	88.4
Women who maintain families	560	63.6	36.4	29.5	549	59.4	40.6	29.1
With children under 18 years of age	388	77.6	22.4	16.0	377	74.3	25.7	14.3
Relatives in families maintained by women	448	22.2	77.8	70.1	519	21.3	78.7	70.4
Men who maintain families	281	41.3	58.7	52.5	264	44.0	56.0	50.6
With children under 18 years of age	115	73.3	26.7	21.8	97	76.1	23.9	19.9
Relatives in families maintained by men	279	8.2	91.8	86.7	269	4.3	95.7	91.4

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns

used in aggregating the data.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-71. Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin

Type of family, number of earners, race, and Hispanic origin	Number of families		Median weekly earnings	
	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL				
Total families with earners ¹	43,906	43,842	\$639	\$657
Married-couple families	34,341	34,355	718	736
One earner	11,826	12,259	450	457
Husband	8,762	8,899	518	523
Wife	2,269	2,583	253	269
Other family member	775	777	280	288
Two or more earners	22,516	22,096	855	882
Husband and wife	20,098	19,720	869	902
Husband and other family member(s)	1,708	1,643	813	818
Wife and other family member(s)	527	537	528	543
Other family members only	183	195	610	617
Families maintained by women	7,493	7,299	348	360
One earner	5,141	5,013	275	288
Householder	4,070	3,913	287	300
Other family member	1,071	1,100	220	245
Two or more earners	2,352	2,287	566	600
Families maintained by men	2,071	2,187	524	518
One earner	1,241	1,315	402	403
Two or more earners	830	872	782	792
White				
Total families with earners ¹	37,229	37,447	667	684
Married-couple families	30,388	30,562	729	748
One earner	10,547	10,934	470	473
Husband	7,991	8,113	532	538
Wife	1,869	2,168	257	269
Two or more earners	19,841	19,828	867	894
Husband and wife	17,758	17,538	879	911
Families maintained by women	5,205	5,143	369	381
Families maintained by men	1,636	1,743	548	542
Black				
Total families with earners ¹	5,213	4,961	453	468
Married-couple families	2,840	2,662	586	616
One earner	927	874	307	308
Husband	537	471	363	355
Wife	327	340	213	254
Two or more earners	1,913	1,788	729	766
Husband and wife	1,688	1,604	749	787
Families maintained by women	2,058	1,946	293	309
Families maintained by men	315	353	439	434
Hispanic origin				
Total families with earners ¹	3,711	3,653	481	491
Married-couple families	2,688	2,651	533	549
One earner	1,092	1,054	321	317
Husband	851	820	347	343
Wife	175	159	248	222
Two or more earners	1,596	1,596	674	726
Husband and wife	1,259	1,202	662	742
Families maintained by women	727	684	342	309
Families maintained by men	297	318	472	448

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-72. Families with unemployed members and wage and salary workers by type of family and median weekly earnings

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	IV 1989	IV 1990	IV 1989	IV 1990
Married-couple families ¹	2,363	2,498	\$473	\$489
Husband unemployed	747	858	279	315
Wife only earner	558	852	245	289
Wife and other earner(s)	120	132	544	501
Other earner(s) only	69	74	(²)	(²)
Wife unemployed	840	846	473	504
Husband only earner	720	677	430	433
Husband and other earner(s)	111	152	745	868
Other earner(s) only	8	16	(²)	(²)
Other member(s) unemployed	776	794	727	710
Husband or wife earner	266	306	518	526
Both husband and wife earners	451	441	872	841
Other combinations of earners	39	47	(²)	(²)
Families maintained by women ¹	521	644	308	311
Householder unemployed	93	108	(²)	195
Other member(s) unemployed	429	536	335	337
Families maintained by men ¹	117	152	395	374

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or

in the Armed Forces.

² Data not shown where base is less than 100,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-73. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	IV 1989	IV 1990	IV 1989	IV 1990
SEX AND AGE				
Total, 16 years and over	84,823	84,091	\$408	\$422
Men, 16 years and over	48,871	48,468	483	490
16 to 24 years	6,260	5,778	278	287
25 years and over	42,611	42,690	511	516
Women, 16 years and over	35,952	35,623	336	355
16 to 24 years	5,001	4,610	248	260
25 years and over	30,951	31,013	358	377
FAMILY RELATIONSHIP				
Husbands	31,558	31,279	523	538
Wives	19,008	18,737	348	370
Women who maintain families	5,160	4,907	326	344
Men who maintain families	1,666	1,767	450	464
Other persons in families:				
Men	6,191	6,093	292	306
Women	4,245	4,196	262	280
All other men ¹	9,456	9,329	435	448
All other women ¹	7,539	7,783	370	380
RACE, HISPANIC ORIGIN, AND SEX				
White	72,229	71,841	419	438
Men	42,350	42,050	495	502
Women	29,879	29,792	343	363
Black	9,729	9,460	322	341
Men	4,917	4,877	355	370
Women	4,812	4,583	301	313
Hispanic origin	6,821	6,787	304	313
Men	4,303	4,341	322	331
Women	2,518	2,447	271	283

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY DATA**

A-74. Median weekly earnings of part-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	IV 1989	IV 1990	IV 1989	IV 1990
SEX AND AGE				
Total, 16 years and over	19,309	19,542	\$113	\$120
Men, 16 years and over	5,955	5,991	106	114
16 to 24 years	3,264	3,320	87	98
25 years and over	2,691	2,671	143	148
Women, 16 years and over	13,354	13,551	116	124
16 to 24 years	4,018	3,959	83	94
25 years and over	9,335	9,592	140	146
FAMILY RELATIONSHIP				
Husbands	1,639	1,633	142	152
Wives	7,037	7,170	144	151
Women who maintain families	1,046	1,071	127	127
Men who maintain families	141	114	150	134
Other persons in families:				
Men	3,098	3,090	87	96
Women	3,368	3,402	79	89
All other men ¹	1,077	1,153	129	141
All other women ¹	1,903	1,908	116	125
RACE, HISPANIC ORIGIN, AND SEX				
White	16,876	17,077	114	122
Men	5,060	5,134	107	114
Women	11,816	11,943	118	125
Black	1,784	1,895	103	111
Men	657	646	105	113
Women	1,127	1,249	102	110
Hispanic origin	1,244	1,269	115	123
Men	478	506	117	124
Women	766	763	113	122

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-75. Median weekly earnings of full-time wage and salary workers by occupation and sex

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL				
Managerial and professional specialty	22,945	22,778	\$595	\$622
Executive, administrative, and managerial	11,434	11,016	595	620
Professional specialty	11,511	11,762	594	623
Technical, sales, and administrative support	25,425	25,351	368	383
Technicians and related support	2,997	3,075	485	496
Sales occupations	8,102	8,095	393	404
Administrative support, including clerical	14,327	14,181	340	355
Service occupations	8,735	8,859	262	273
Private household	272	321	158	171
Protective service	1,727	1,616	463	488
Service, except private household and protective	6,735	6,922	240	255
Precision production, craft, and repair	11,293	10,843	466	481
Mechanics and repairers	3,851	3,781	471	477
Construction trades	3,810	3,441	462	480
Other precision production, craft, and repair	3,632	3,621	466	487
Operators, fabricators, and laborers	15,151	14,936	336	345
Machine operators, assemblers, and inspectors	7,401	7,251	323	332
Transportation and material moving occupations	4,090	4,104	412	415
Handlers, equipment cleaners, helpers, and laborers	3,661	3,581	295	304
Farming, forestry, and fishing	1,274	1,324	246	263
Men				
Managerial and professional specialty	12,419	12,145	717	754
Executive, administrative, and managerial	6,653	6,274	737	766
Professional specialty	5,766	5,871	696	743
Technical, sales, and administrative support	9,416	9,481	489	497
Technicians and related support	1,660	1,704	549	578
Sales occupations	4,614	4,600	491	502
Administrative support, including clerical	3,141	3,178	439	450
Service occupations	4,204	4,415	322	327
Private household	9	23	(¹)	(¹)
Protective service	1,494	1,429	468	496
Service, except private household and protective	2,701	2,963	274	284
Precision production, craft, and repair	10,378	9,992	480	492
Mechanics and repairers	3,674	3,637	475	478
Construction trades	3,743	3,402	465	482
Other precision production, craft, and repair	2,960	2,953	498	514
Operators, fabricators, and laborers	11,340	11,235	378	383
Machine operators, assemblers, and inspectors	4,487	4,458	393	392
Transportation and material moving occupations	3,887	3,873	417	419
Handlers, equipment cleaners, helpers, and laborers	2,965	2,904	304	313
Farming, forestry, and fishing	1,114	1,199	258	268
Women				
Managerial and professional specialty	10,526	10,632	491	520
Executive, administrative, and managerial	4,781	4,742	460	500
Professional specialty	5,745	5,891	509	548
Technical, sales, and administrative support	16,010	15,870	323	337
Technicians and related support	1,337	1,371	415	417
Sales occupations	3,487	3,496	287	299
Administrative support, including clerical	11,186	11,003	322	336
Service occupations	4,531	4,444	222	234
Private household	263	298	158	169
Protective service	233	187	442	443
Service, except private household and protective	4,034	3,959	223	235
Precision production, craft, and repair	915	851	313	315
Mechanics and repairers	176	145	396	413
Construction trades	67	39	(¹)	(¹)
Other precision production, craft, and repair	672	668	297	305
Operators, fabricators, and laborers	3,811	3,701	256	265
Machine operators, assemblers, and inspectors	2,914	2,793	253	262
Transportation and material moving occupations	202	231	307	325
Handlers, equipment cleaners, helpers, and laborers	695	677	257	260
Farming, forestry, and fishing	160	125	207	208

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-76. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Total United States		Metropolitan areas					
	IV 1989	IV 1990	Total		Central cities		Suburbs	
			IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL								
Civilian noninstitutional population	187,018	188,696	145,371	146,589	57,024	57,770	88,347	88,820
Civilian labor force	124,359	124,824	98,191	98,463	37,078	37,432	61,113	61,031
Percent of population	66.5	66.2	67.5	67.2	65.0	64.8	69.2	68.7
Employed	118,020	117,732	93,242	92,956	34,713	34,841	58,529	58,115
Unemployed	6,339	7,092	4,949	5,507	2,365	2,591	2,584	2,916
Unemployment rate	5.1	5.7	5.0	5.6	6.4	6.9	4.2	4.8
Not in labor force	62,658	63,872	47,180	48,126	19,946	20,337	27,233	27,789
Men, 20 years and over								
Civilian noninstitutional population	81,976	83,105	63,841	64,605	24,514	25,067	39,327	39,537
Civilian labor force	61,902	64,597	50,462	50,889	18,709	19,114	31,753	31,776
Percent of population	78.0	77.7	79.0	78.8	76.3	76.2	80.7	80.4
Employed	61,087	61,229	48,267	48,263	17,624	17,842	30,643	30,421
Unemployed	2,815	3,368	2,195	2,626	1,085	1,271	1,110	1,355
Unemployment rate	4.4	5.2	4.3	5.2	5.8	6.7	3.5	4.3
Not in labor force	18,074	18,508	13,379	13,715	5,805	5,954	7,574	7,762
Women, 20 years and over								
Civilian noninstitutional population	90,952	91,954	70,778	71,541	28,332	28,660	42,446	42,881
Civilian labor force	52,906	53,404	41,960	42,356	16,276	16,480	25,684	25,875
Percent of population	56.2	58.1	59.3	59.2	57.4	57.5	60.5	60.3
Employed	50,497	50,788	40,050	40,318	15,391	15,553	24,659	24,765
Unemployed	2,408	2,616	1,910	2,038	885	927	1,025	1,111
Unemployment rate	4.6	4.9	4.6	4.8	5.4	5.6	4.0	4.3
Not in labor force	38,046	38,550	28,818	29,185	12,056	12,180	16,762	17,006
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,090	13,637	10,753	10,444	4,179	4,042	6,574	6,402
Civilian labor force	7,551	6,824	5,770	5,218	2,093	1,838	3,677	3,380
Percent of population	53.6	50.0	53.7	50.0	50.1	45.5	55.9	52.8
Employed	6,435	5,715	4,926	4,375	1,699	1,445	3,227	2,929
Unemployed	1,116	1,108	844	843	394	393	450	450
Unemployment rate	14.8	16.2	14.6	16.2	18.8	21.4	12.2	13.3
Not in labor force	6,539	6,814	4,983	5,226	2,086	2,204	2,897	3,022
White								
Civilian noninstitutional population	159,738	160,830	122,437	123,101	42,292	42,673	80,145	80,429
Civilian labor force	106,698	107,108	83,043	83,267	27,850	28,184	55,193	55,083
Percent of population	66.8	66.6	67.8	67.6	65.9	66.0	68.9	68.5
Employed	102,084	101,899	79,568	79,319	26,523	26,687	53,046	52,632
Unemployed	4,614	5,209	3,474	3,948	1,327	1,497	2,147	2,450
Unemployment rate	4.3	4.9	4.2	4.7	4.8	5.3	3.9	4.4
Not in labor force	53,040	53,722	39,394	39,835	14,442	14,488	24,952	25,346
Black								
Civilian noninstitutional population	21,136	21,416	17,563	17,845	11,985	12,220	5,578	5,625
Civilian labor force	13,535	13,527	11,476	11,488	7,455	7,441	4,021	4,047
Percent of population	64.0	63.2	65.3	64.4	62.2	60.9	72.1	71.9
Employed	12,011	11,928	10,166	10,147	6,501	6,469	3,664	3,679
Unemployed	1,524	1,599	1,310	1,341	953	972	357	368
Unemployment rate	11.3	11.8	11.4	11.7	12.8	13.1	8.9	9.1
Not in labor force	7,601	7,889	6,087	6,357	4,530	4,779	1,556	1,578
Hispanic origin								
Civilian noninstitutional population	13,977	14,474	13,012	13,482	7,198	7,501	5,815	5,980
Civilian labor force	9,405	9,511	8,755	8,865	4,616	4,770	4,139	4,095
Percent of population	67.3	65.7	67.3	65.8	64.1	63.6	71.2	68.5
Employed	8,667	8,695	8,063	8,114	4,224	4,370	3,839	3,744
Unemployed	739	816	692	752	392	401	301	351
Unemployment rate	7.9	8.6	7.9	8.5	8.5	8.4	7.3	8.6
Not in labor force	4,572	4,963	4,258	4,617	2,582	2,731	1,676	1,886

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-76. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin—Continued

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		IV 1989	IV 1990	IV 1989	IV 1990
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990				
TOTAL										
Civilian noninstitutional population	41,646	42,106	2,755	2,634	38,892	39,473	136,867	137,767	50,150	50,929
Civilian labor force	26,168	26,381	1,957	1,839	24,211	24,522	91,459	91,487	32,900	33,337
Percent of population	62.8	62.6	71.0	69.8	62.3	62.1	66.8	66.4	65.6	65.5
Employed	24,778	24,776	1,918	1,806	22,860	22,970	88,663	86,158	31,357	31,576
Unemployed	1,390	1,585	39	33	1,351	1,552	4,796	5,330	1,543	1,762
Unemployment rate	5.3	6.0	2.0	1.8	5.8	6.3	5.2	5.8	4.7	5.3
Not in labor force	15,479	15,746	798	795	14,681	14,951	45,408	46,281	17,250	17,591
Men, 20 years and over										
Civilian noninstitutional population	18,135	18,500	1,335	1,277	16,800	17,223	59,245	59,947	22,731	23,157
Civilian labor force	13,441	13,707	1,125	1,073	12,315	12,635	48,397	46,760	17,505	17,836
Percent of population	74.1	74.1	84.3	84.0	73.3	73.4	78.3	78.0	77.0	77.0
Employed	12,821	12,966	1,112	1,059	11,708	11,907	44,284	44,247	16,803	16,982
Unemployed	620	742	13	14	607	728	2,113	2,513	702	854
Unemployment rate	4.6	5.4	1.2	1.3	4.9	5.8	4.6	5.4	4.0	4.8
Not in labor force	4,695	4,793	210	204	4,484	4,589	12,848	13,187	5,225	5,321
Women, 20 years and over										
Civilian noninstitutional population	20,174	20,413	1,202	1,155	18,972	19,258	67,444	67,984	23,507	23,970
Civilian labor force	10,946	11,048	717	658	10,229	10,389	39,599	39,823	13,306	13,581
Percent of population	54.3	54.1	59.6	57.0	53.9	53.9	58.7	58.6	56.6	56.7
Employed	10,447	10,470	698	648	9,749	9,822	37,760	37,857	12,737	12,931
Unemployed	498	578	19	11	480	567	1,839	1,966	569	650
Unemployment rate	4.6	5.2	2.6	1.6	4.7	5.5	4.6	4.9	4.3	4.8
Not in labor force	9,228	9,365	485	497	8,743	8,868	27,845	28,161	10,201	10,389
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,337	3,194	217	202	3,120	2,992	10,178	9,836	3,912	3,801
Civilian labor force	1,782	1,806	115	108	1,666	1,498	5,462	4,904	2,069	1,920
Percent of population	53.4	56.3	53.0	53.5	53.4	50.1	53.7	49.9	53.4	50.5
Employed	1,510	1,341	108	99	1,402	1,241	4,818	4,053	1,817	1,663
Unemployed	272	285	8	9	264	256	844	851	272	257
Unemployment rate	15.3	16.5	6.5	8.1	15.9	17.1	15.5	17.4	13.0	13.4
Not in labor force	1,556	1,588	102	94	1,454	1,494	4,716	4,933	1,823	1,881
White										
Civilian noninstitutional population	37,301	37,729	2,687	2,578	34,614	35,151	113,376	113,648	46,362	47,182
Civilian labor force	23,655	23,841	1,914	1,807	21,741	22,034	76,111	76,044	30,586	31,064
Percent of population	63.4	63.2	71.2	70.1	62.8	62.7	67.1	66.9	66.0	65.8
Employed	22,515	22,580	1,879	1,775	20,636	20,805	72,845	72,348	29,238	29,551
Unemployed	1,140	1,262	35	32	1,105	1,229	3,266	3,697	1,348	1,512
Unemployment rate	4.8	5.3	1.8	1.8	5.1	5.6	4.3	4.9	4.4	4.9
Not in labor force	13,646	13,888	773	771	12,873	13,117	37,265	37,604	15,775	16,119
Black										
Civilian noninstitutional population	3,573	3,571	50	36	3,524	3,534	18,150	18,455	2,986	2,981
Civilian labor force	2,059	2,039	29	19	2,030	2,020	11,737	11,749	1,797	1,779
Percent of population	57.6	57.1	(¹)	(¹)	57.6	57.2	64.7	63.7	60.2	60.1
Employed	1,845	1,781	26	18	1,819	1,763	10,370	10,348	1,641	1,581
Unemployed	214	258	3	1	210	257	1,367	1,401	157	198
Unemployment rate	10.4	12.7	(¹)	(¹)	10.4	12.7	11.7	11.9	8.7	11.1
Not in labor force	1,515	1,531	20	18	1,494	1,514	6,413	6,707	1,188	1,182
Hispanic origin										
Civilian noninstitutional population	965	993	43	44	922	949	12,730	13,151	1,248	1,324
Civilian labor force	651	646	33	34	617	612	8,580	8,647	846	864
Percent of population	67.4	65.1	(¹)	(¹)	67.0	64.5	67.2	65.8	67.8	65.3
Employed	604	582	33	32	571	550	7,897	7,916	770	780
Unemployed	46	64	-	2	46	62	683	731	76	84
Unemployment rate	7.1	9.9	(¹)	(¹)	7.5	10.1	7.7	8.5	6.9	9.8
Not in labor force	314	347	10	10	304	337	4,170	4,504	402	460

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

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

-77. Employment status of the civilian noninstitutional population in poverty and nonpoverty areas by race and Hispanic origin

(Numbers in thousands)

Employment status, race, and Hispanic origin	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990	IV 1989	IV 1990
TOTAL												
Civilian noninstitutional population	27,330	27,181	159,688	161,515	17,850	17,447	127,521	129,142	9,480	9,734	32,167	32,373
Civilian labor force	15,729	15,387	108,630	109,437	10,235	9,787	87,957	88,676	5,495	5,600	20,673	20,761
Percent of population	57.6	56.6	68.0	67.8	57.3	56.1	69.0	68.7	58.0	57.5	64.3	64.1
Employed	14,181	13,823	103,839	103,909	9,065	8,658	84,177	84,298	5,116	5,164	19,662	19,612
Unemployed	1,549	1,565	4,791	5,527	1,170	1,129	3,779	4,378	379	436	1,011	1,149
Unemployment rate	9.8	10.2	4.4	5.1	11.4	11.5	4.3	4.9	6.9	7.8	4.9	5.5
Men, 20 years and over	9.1	9.5	3.7	4.6	10.7	10.9	3.6	4.5	6.1	7.1	4.2	4.9
Women, 20 years and over	8.2	8.6	4.0	4.4	9.3	9.5	4.0	4.3	6.0	7.0	4.2	4.8
Both sexes, 16 to 19 years	25.8	28.0	12.9	14.5	30.8	32.2	12.5	14.2	17.7	20.2	14.5	15.7
Men	27.4	28.9	14.6	15.9	33.0	33.6	14.4	15.5	18.4	21.1	15.3	17.1
Women	24.1	26.9	11.1	13.0	28.4	30.6	10.5	12.7	16.9	18.9	13.6	14.0
Not in labor force	11,600	11,793	51,058	52,078	7,615	7,660	39,565	40,466	3,985	4,133	11,493	11,612
White												
Civilian noninstitutional population	16,364	16,274	143,374	144,557	9,323	9,014	113,113	114,087	7,041	7,259	30,260	30,469
Civilian labor force	9,688	9,499	97,009	97,609	5,500	5,213	77,543	78,053	4,188	4,285	19,467	19,556
Percent of population	59.2	58.4	67.7	67.5	59.0	57.8	68.6	68.4	59.5	59.0	64.3	64.2
Employed	9,028	8,833	93,056	93,066	5,052	4,790	74,517	74,529	3,976	4,043	18,539	18,537
Unemployed	661	666	3,953	4,543	448	423	3,026	3,524	212	243	928	1,019
Unemployment rate	6.8	7.0	4.1	4.7	8.2	8.1	3.9	4.5	5.1	5.7	4.8	5.2
Men, 20 years and over	6.3	7.0	3.5	4.3	7.5	7.7	3.4	4.2	4.5	6.1	4.1	4.6
Women, 20 years and over	5.7	5.3	3.6	4.0	7.0	6.3	3.5	3.9	4.0	4.0	4.0	4.4
Both sexes, 16 to 19 years	18.2	19.7	11.9	13.1	21.2	24.2	11.2	12.5	15.0	13.9	14.2	15.1
Men	19.8	19.4	13.6	14.9	24.0	24.6	13.2	14.6	15.5	12.7	14.8	16.1
Women	16.5	20.2	10.1	11.2	18.4	23.7	9.2	10.4	14.4	15.3	13.5	14.0
Not in labor force	6,676	6,775	46,364	46,948	3,823	3,801	35,571	36,034	2,852	2,974	10,794	10,914
Black												
Civilian noninstitutional population	9,863	9,804	11,273	11,612	7,726	7,622	9,837	10,223	2,138	2,182	1,436	1,389
Civilian labor force	5,463	5,293	8,072	8,235	4,312	4,127	7,164	7,361	1,151	1,166	908	874
Percent of population	55.4	54.0	71.6	70.9	55.8	54.1	72.8	72.0	53.8	53.4	63.3	62.9
Employed	4,617	4,458	7,394	7,471	3,617	3,457	6,549	6,690	1,000	1,000	845	781
Unemployed	845	835	679	764	695	670	615	671	150	166	63	93
Unemployment rate	15.5	15.8	8.4	9.3	16.1	16.2	8.6	9.1	13.1	14.2	7.0	10.6
Men, 20 years and over	15.2	14.9	6.6	8.4	16.0	16.1	6.7	8.2	11.7	10.7	6.4	10.0
Women, 20 years and over	12.2	13.4	8.1	7.9	12.2	13.0	8.4	7.7	12.1	14.8	6.0	9.6
Both sexes, 16 to 19 years	37.8	41.2	24.3	28.7	41.2	42.7	24.7	28.7	26.1	36.2	(¹)	(¹)
Men	39.0	44.8	24.3	25.3	42.6	46.6	24.8	24.1	(¹)	(¹)	(¹)	(¹)
Women	36.6	37.2	24.3	32.4	39.6	38.8	24.6	33.5	(¹)	(¹)	(¹)	(¹)
Not in labor force	4,401	4,511	3,200	3,377	3,413	3,495	2,673	2,862	987	1,016	527	515
Hispanic origin												
Civilian noninstitutional population	4,338	4,404	9,640	10,071	4,016	4,057	8,996	9,424	321	346	644	647
Civilian labor force	2,539	2,444	6,866	7,067	2,340	2,242	6,415	6,623	199	202	452	444
Percent of population	58.5	55.5	71.2	70.2	58.3	55.3	71.3	70.3	61.9	58.2	70.2	68.7
Employed	2,260	2,205	6,407	6,491	2,074	2,017	5,989	6,096	187	188	417	394
Unemployed	279	239	460	577	267	225	426	526	12	14	34	50
Unemployment rate	11.0	9.8	6.7	8.2	11.4	10.0	6.6	7.9	6.1	6.9	7.6	11.3
Men, 20 years and over	10.5	9.0	5.5	7.6	10.7	9.3	5.4	7.3	7.9	5.9	7.1	10.8
Women, 20 years and over	9.3	8.1	6.5	7.0	9.6	8.3	6.5	6.9	4.1	6.3	6.8	8.7
Both sexes, 16 to 19 years	22.5	24.6	17.2	19.7	24.6	26.2	17.5	19.3	(¹)	(¹)	(¹)	(¹)
Men	27.5	29.4	20.0	21.5	29.9	33.2	20.5	20.7	(¹)	(¹)	(¹)	(¹)
Women	16.6	18.4	12.9	16.9	18.4	17.0	12.7	17.1	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,798	1,960	2,773	3,004	1,676	1,815	2,582	2,802	122	145	192	202

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

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employees on nonfarm payrolls by major industry, 1940 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,841	4,909	1,485	3,665	996	(¹)	(¹)
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,966	5,244	1,525	3,905	1,340	(¹)	(¹)
1942	40,106	34,824	18,470	992	2,198	15,280	21,636	3,460	1,912	5,206	1,509	4,066	2,213	(¹)	(¹)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,828	5,154	1,481	4,130	2,905	(¹)	(¹)
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,851	5,208	1,461	4,145	2,928	(¹)	(¹)
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,955	5,359	1,481	4,222	2,808	(¹)	(¹)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,298	6,077	1,675	4,697	2,254	(¹)	(¹)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	(¹)	(¹)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	(¹)	(¹)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	(¹)	(¹)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	(¹)	(¹)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	(¹)	(¹)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	(¹)	(¹)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	(¹)	(¹)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	(¹)	(¹)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,765	2,191	1,415	4,232
1959 ²	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,092	8,035	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,153	8,238	2,628	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,258	8,520	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,347	8,812	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,608	9,637	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,700	9,906	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,791	10,308	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,919	10,785	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	4,006	11,034	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,014	11,338	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,127	11,822	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,291	12,315	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,447	12,539	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,430	12,630	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,562	4,562	13,193	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,723	13,792	4,467	15,302	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,221	14,972	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,376	15,172	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,296	15,161	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,286	15,595	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,574	16,526	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,736	17,336	5,955	21,999	2,875	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,774	17,909	6,283	23,053	2,899	3,893	9,901
1987	102,200	85,190	24,708	717	4,967	19,024	77,492	5,372	5,865	18,462	6,547	24,235	2,943	3,967	10,100
1988	105,536	88,150	25,173	713	5,110	19,350	80,363	5,527	6,055	19,077	6,649	25,669	2,971	4,076	10,339
1989	108,413	90,644	25,326	700	5,200	19,426	83,087	5,648	6,271	19,580	6,724	27,096	2,988	4,175	10,606
1990 ²	110,330	92,035	25,004	735	5,205	19,064	85,326	5,838	6,361	19,790	6,833	28,209	3,086	4,284	10,925
Monthly data, seasonally adjusted															
1989:															
December	109,383	91,456	25,216	718	5,216	19,284	84,165	5,776	6,344	19,710	6,785	27,623	2,977	4,206	10,744
1990:															
January	109,654	91,656	25,188	723	5,294	19,171	84,466	5,790	6,356	19,807	6,794	27,721	3,000	4,225	10,773
February	109,958	91,917	25,339	727	5,368	19,244	84,619	5,804	6,357	19,758	6,817	27,842	3,005	4,239	10,797
March	110,122	91,963	25,259	729	5,313	19,217	84,863	5,808	6,361	19,764	6,821	27,950	3,089	4,249	10,821
April	110,177	91,922	25,180	734	5,256	19,190	84,997	5,809	6,363	19,778	6,823	27,969	3,151	4,252	10,852
May	110,617	92,120	25,191	738	5,286	19,167	85,426	5,833	6,369	19,795	6,838	28,094	3,346	4,262	10,889
June	110,829	92,282	25,162	744	5,270	19,148	85,667	5,846	6,383	19,822	6,844	28,225	3,338	4,296	10,913
July	110,740	92,300	25,105	745	5,229	19,131	85,635	5,841	6,374	19,851	6,842	28,287	3,164	4,298	10,978
August	110,613	92,320	25,013	735	5,194	19,084	85,600	5,846	6,376	19,846	6,852	28,387	3,045	4,305	10,943
September	110,612	92,306	24,931	736	5,176	19,019	85,681	5,870	6,370	19,844	6,851	28,440	2,999	4,309	10,998
October	110,432	92,112	24,777	733	5,093	18,951	85,655	5,870	6,355	19,792	6,843	28,475	2,983	4,323	11,014
November ²	110,173	91,834	24,506	736	5,023	18,747	85,667	5,865	6,342	19,742	6,834	28,545	2,966	4,322	11,051
December ²	110,097	91,756	24,451	742	4,995	18,714	85,646	5,876	6,328	19,694	6,831	28,576	2,948	4,329	11,064

¹ Not available.

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

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1989) and all seasonally adjusted data (beginning January 1986) are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonfarm payrolls by detailed industry

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Total		110,168	110,189	111,168	111,109	110,922	-	-	-	-	-
Total private		91,893	91,964	92,613	92,381	92,271	74,600	74,633	75,092	74,880	74,756
Mining		723	719	743	743	743	520	515	539	537	535
Metal mining	10	58.2	58.4	60.6	60.9	-	46.2	46.5	47.4	47.4	-
Iron ores	101	7.7	8.0	6.7	6.6	-	6.3	6.7	4.9	4.8	-
Copper ores	102	14.1	14.2	15.2	15.4	-	11.4	11.5	12.5	12.6	-
Coal mining	12	152.9	152.3	154.1	153.8	-	123.7	123.0	124.3	124.3	-
Bituminous coal and lignite mining	122	142.9	142.3	143.5	143.3	-	115.5	114.9	115.7	115.7	-
Oil and gas extraction	13	398.4	400.0	414.7	415.8	418.9	264.0	264.3	280.5	280.9	-
Crude petroleum and natural gas	131	191.2	192.3	189.0	188.6	-	91.3	91.7	93.5	92.7	-
Oil and gas field services	138	202.9	203.4	221.8	223.2	-	169.4	169.4	184.1	185.3	-
Nonmetallic minerals, except fuels	14	113.0	108.0	113.9	112.0	-	86.2	81.3	86.9	84.7	-
Crushed and broken stone	142	41.8	39.5	42.0	41.2	-	32.9	30.5	32.8	31.9	-
Sand and gravel	144	35.9	33.4	36.2	35.3	-	-	-	-	-	-
Chemical and fertilizer minerals	147	16.6	16.6	16.4	16.5	-	-	-	-	-	-
Construction		5,398	5,141	5,337	5,159	4,925	4,245	3,988	4,170	4,005	3,775
General building contractors	15	1,369.5	1,333.1	1,324.4	1,278.4	1,240.4	1,002.3	965.0	959.2	921.6	-
Residential building construction	152	700.7	682.7	688.7	640.6	-	499.2	481.2	467.9	445.9	-
Operative builders	153	41.1	40.8	36.4	35.0	-	17.7	17.3	15.0	14.3	-
Nonresidential building construction	154	627.7	609.6	619.3	602.8	-	485.4	466.5	476.3	461.4	-
Heavy construction, except building	16	830.2	754.6	865.0	814.8	-	697.7	623.4	729.8	679.3	-
Highway and street construction	161	251.6	200.5	286.2	258.3	-	208.4	158.6	243.0	214.9	-
Heavy construction, except highway	162	578.6	554.1	578.8	556.5	-	489.3	464.8	486.8	464.4	-
Special trade contractors	17	3,198.6	3,053.3	3,147.4	3,066.2	-	2,545.4	2,399.6	2,481.2	2,403.6	-
Plumbing, heating, and air conditioning	171	665.2	660.7	652.3	642.2	-	493.6	488.5	480.1	471.1	-
Painting and paper hanging	172	180.2	171.7	178.9	171.0	-	151.3	143.2	149.9	141.6	-
Electrical work	173	566.8	566.7	572.8	566.4	-	441.5	440.9	446.2	438.1	-
Masonry, stonework, and plastering	174	531.2	494.9	521.5	502.3	-	460.0	424.5	448.6	429.7	-
Carpentry and floor work	175	209.4	204.1	180.8	173.4	-	163.3	157.5	135.0	127.7	-
Roofing, siding, and sheet metal work	176	227.9	210.9	221.4	220.1	-	183.8	167.3	177.4	176.1	-
Manufacturing		19,391	19,320	19,043	18,832	18,751	13,221	13,152	12,944	12,757	12,683
Durable goods		11,364	11,330	11,058	10,914	10,882	7,563	7,534	7,344	7,219	7,193
Lumber and wood products	24	752.5	745.7	736.1	717.2	706.8	621.3	614.2	605.3	588.4	578.5
Logging	241	90.0	87.6	90.1	84.9	-	74.7	72.0	75.0	69.8	-
Sawmills and planing mills	242	200.3	200.3	195.7	192.8	-	174.8	174.5	169.9	167.4	-
Sawmills and planing mills, general	2421	161.8	161.6	157.5	155.5	-	141.3	140.9	136.5	134.8	-
Hardwood dimension and flooring mills	2426	35.2	35.5	35.0	34.0	-	30.8	31.0	30.7	29.9	-
Millwork, plywood, and structural members	243	266.7	264.7	256.4	249.8	-	215.8	214.0	205.8	200.1	-
Millwork	2431	106.4	106.0	104.4	101.4	-	83.7	83.5	81.1	78.7	-
Wood kitchen cabinets	2434	73.0	73.2	71.5	70.7	-	58.2	58.3	57.1	56.2	-
Hardwood veneer and plywood	2435	23.8	23.3	22.9	22.1	-	20.6	20.1	19.7	19.0	-
Softwood veneer and plywood	2436	34.3	34.3	31.8	31.2	-	30.8	30.9	28.4	27.9	-
Wood containers	244	43.4	42.3	44.2	43.3	-	36.4	35.4	37.1	36.6	-
Wood buildings and mobile homes	245	65.2	63.9	64.5	62.7	-	49.2	48.0	48.8	47.0	-
Mobile homes	2451	43.6	43.0	44.9	43.7	-	35.4	34.8	36.5	35.1	-
Miscellaneous wood products	249	86.9	86.9	85.2	83.7	-	70.4	70.3	68.7	67.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a
Durable goods—Continued											
Furniture and fixtures	25	526.1	524.1	510.3	502.0	500.2	418.5	416.9	402.7	395.3	392.9
Household furniture	251	302.5	301.1	290.1	285.6	-	254.5	253.6	241.9	237.9	-
Wood household furniture	2511	133.9	132.9	126.2	124.9	-	116.5	115.5	108.3	107.0	-
Upholstered household furniture	2512	100.0	100.2	99.9	98.8	-	83.4	83.9	83.3	82.4	-
Metal household furniture	2514	24.4	25.0	22.5	22.1	-	19.5	20.1	17.8	17.4	-
Mattresses and bedsprings	2515	28.6	28.2	28.2	26.9	-	21.8	21.5	21.5	20.4	-
Office furniture	252	70.7	70.9	68.5	68.1	-	52.5	52.7	50.9	50.6	-
Public building and related furniture	253	32.8	33.1	31.3	30.5	-	25.7	26.0	24.3	23.3	-
Partitions and fixtures	254	82.6	81.6	84.3	82.3	-	60.1	59.1	61.2	59.7	-
Miscellaneous furniture and fixtures	259	37.5	37.4	36.1	35.5	-	25.7	25.5	24.4	23.8	-
Stone, clay, and glass products	32	571.8	560.1	553.5	545.8	531.1	446.9	435.6	431.4	424.6	411.7
Flat glass	321	16.4	16.6	16.3	16.2	-	13.0	13.2	12.8	12.8	-
Glass and glassware, pressed or blown	322	87.8	86.5	83.9	83.2	-	75.9	74.6	72.5	71.8	-
Glass containers	3221	43.4	43.0	41.4	41.2	-	39.4	39.0	37.6	37.4	-
Pressed and blown glass, nec	3229	44.4	43.5	42.5	42.0	-	36.5	35.6	34.9	34.4	-
Products of purchased glass	323	57.6	57.1	55.5	54.6	-	44.2	43.7	42.5	41.9	-
Cement, hydraulic	324	18.7	18.6	18.9	18.8	-	14.2	14.2	14.5	14.4	-
Structural clay products	325	37.2	36.6	35.7	35.0	-	28.8	28.2	27.5	26.8	-
Pottery and related products	326	40.8	40.6	38.9	38.5	-	32.7	32.4	30.8	30.4	-
Concrete, gypsum, and plaster products	327	215.4	206.3	208.8	205.2	-	165.2	156.6	159.9	156.6	-
Concrete block and brick	3271	19.9	19.0	19.0	18.7	-	12.8	12.5	12.2	12.0	-
Concrete products, nec	3272	73.4	72.1	70.1	68.6	-	55.6	54.4	53.0	51.6	-
Ready-mixed concrete	3273	102.7	95.9	101.2	99.3	-	81.9	74.8	80.5	78.7	-
Misc. nonmetallic mineral products	329	84.0	83.9	81.0	80.0	-	62.1	62.0	60.1	59.2	-
Abrasive products	3291	22.0	21.9	21.1	20.9	-	15.5	15.5	15.0	15.0	-
Asbestos products	3292	7.0	7.1	7.2	7.0	-	5.3	5.3	5.5	5.2	-
Mineral wool	3296	25.7	25.5	23.8	23.3	-	-	-	-	-	-
Primary metal industries	33	760.4	760.8	750.4	744.5	742.7	577.9	577.7	569.3	564.1	561.6
Blast furnaces and basic steel products	331	270.8	273.0	269.3	269.7	271.1	207.5	209.4	206.0	206.3	207.4
Blast furnaces and steel mills	3312	205.1	206.0	202.3	202.9	-	158.8	159.5	156.5	156.8	-
Steel pipe and tubes	3317	23.8	24.5	24.7	24.7	-	17.8	18.3	18.2	18.4	-
Iron and steel foundries	332	136.5	134.9	133.7	132.2	-	109.2	107.9	106.4	105.3	-
Gray and ductile iron foundries	3321	83.9	82.8	82.0	80.7	-	68.8	67.6	66.7	65.7	-
Malleable iron foundries	3322	8.8	8.8	8.7	8.6	-	6.7	6.8	6.4	6.4	-
Steel foundries, nec	3325	28.5	28.1	28.1	27.9	-	22.2	22.0	21.9	21.7	-
Primary nonferrous metals	333	44.7	45.9	45.8	44.3	-	32.8	33.7	33.8	32.6	-
Primary aluminum	3334	24.8	25.8	25.9	24.4	-	18.8	19.6	19.8	18.6	-
Nonferrous rolling and drawing	335	178.0	176.4	173.9	172.3	-	127.5	126.0	125.5	123.7	-
Copper rolling and drawing	3351	23.8	23.7	23.0	22.4	-	18.1	18.1	17.6	17.0	-
Aluminum sheet, plate, and foil	3353	28.3	28.2	28.6	28.7	-	18.8	18.7	19.3	19.2	-
Nonferrous wire drawing and insulating	3357	75.7	74.3	72.9	72.5	-	55.3	53.9	53.5	53.1	-
Nonferrous foundries (castings)	336	85.2	85.6	84.5	82.8	-	67.7	67.7	66.3	64.8	-
Aluminum foundries	3365	24.1	24.1	24.1	23.6	-	19.0	18.9	19.0	18.6	-
Fabricated metal products	34	1,437.6	1,433.3	1,411.6	1,395.7	1,388.8	1,063.0	1,059.8	1,042.5	1,028.7	1,023.2
Metal cans and shipping containers	341	52.1	51.4	50.6	49.7	-	45.0	44.1	43.4	42.6	-
Metal cans	3411	41.8	41.1	40.9	40.1	-	36.5	35.6	35.6	34.9	-
Cutlery, handtools, and hardware	342	131.2	131.1	126.5	124.7	-	96.6	96.7	92.7	91.0	-
Hand and edge tools, and blades and handsaws	3423.5	45.3	45.3	43.8	43.6	-	33.6	33.5	32.1	31.9	-
Hardware, nec	3429	73.9	73.7	71.0	69.4	-	54.7	54.8	52.6	51.1	-
Plumbing and heating, except electric	343	63.6	63.0	63.0	62.3	-	46.2	45.6	45.4	44.7	-
Plumbing fixture fittings and trim	3432	26.8	26.8	26.1	25.6	-	19.9	19.9	19.5	19.1	-
Heating equipment, except electric	3433	23.3	22.7	22.9	22.8	-	16.1	15.5	15.4	15.3	-
Fabricated structural metal products	344	431.3	429.2	426.2	423.1	-	307.4	305.5	302.7	299.5	-
Fabricated structural metal	3441	78.1	78.4	77.5	77.1	-	55.8	56.3	55.9	55.2	-
Metal doors, sash, and trim	3442	76.5	75.2	75.6	74.5	-	55.9	54.5	54.8	53.7	-
Fabricated plate work (boiler shops)	3443	108.6	108.3	109.6	109.5	-	73.0	72.7	73.4	73.3	-
Sheet metal work	3444	95.8	95.9	93.9	92.7	-	72.4	72.6	70.9	69.9	-
Architectural metal work	3446	29.9	29.2	28.2	28.4	-	21.5	20.9	19.9	19.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	99.3	99.3	95.9	95.0	-	76.1	76.2	73.6	72.8	-
Screw machine products	3451	47.7	47.8	46.4	45.8	-	39.0	39.1	37.7	37.3	-
Bolts, nuts, rivets, and washers	3452	51.6	51.5	49.5	49.2	-	37.1	37.1	35.9	35.5	-
Metal forgings and stampings	346	228.7	227.8	226.9	221.9	-	181.4	180.4	180.3	175.4	-
Iron and steel forgings	3462	32.2	32.4	31.8	32.0	-	24.8	25.0	24.2	24.3	-
Automotive stampings	3465	104.1	103.8	103.6	98.7	-	86.8	86.6	86.9	82.1	-
Metal stampings, nec	3469	79.7	79.1	79.3	79.0	-	60.3	59.6	60.0	59.8	-
Metal services, nec	347	121.7	121.5	120.6	119.1	-	96.2	96.1	94.0	92.9	-
Plating and polishing	3471	78.6	78.2	76.8	75.4	-	62.8	62.5	60.2	59.1	-
Metal coating and allied services	3479	43.1	43.3	43.8	43.7	-	33.4	33.6	33.8	33.8	-
Ordnance and accessories, nec	348	72.8	72.7	67.2	67.1	-	44.4	44.4	42.4	43.1	-
Ammunition, except for small arms, nec	3483	42.3	42.4	38.3	38.8	-	22.9	23.0	21.6	22.7	-
Miscellaneous fabricated metal products	349	236.9	237.3	234.7	232.8	-	169.7	170.8	168.0	166.7	-
Valves and pipe fittings, nec	3494	29.1	29.7	28.7	28.8	-	18.6	19.1	18.9	19.1	-
Misc. fabricated wire products	3496	54.7	54.4	53.9	53.2	-	41.1	41.4	40.3	39.7	-
Industrial machinery and equipment	35	2,128.6	2,136.9	2,074.9	2,067.6	2,063.3	1,281.6	1,287.6	1,243.5	1,239.5	1,237.2
Engines and turbines	351	91.2	91.3	93.2	92.6	-	59.4	59.4	60.6	60.3	-
Turbines and turbine generator sets	3511	26.6	26.7	28.7	28.9	-	15.5	15.5	16.9	17.1	-
Internal combustion engines, nec	3519	64.6	64.6	64.5	63.7	-	43.9	43.9	43.7	43.2	-
Farm and garden machinery	352	107.3	110.2	110.2	111.2	-	78.5	81.3	79.9	81.3	-
Farm machinery and equipment	3523	78.4	79.2	81.5	80.5	-	55.5	56.1	58.4	57.7	-
Construction and related machinery	353	223.4	224.7	223.2	222.6	-	136.8	138.0	136.4	136.1	-
Construction machinery	3531	84.0	84.0	80.8	79.3	-	52.6	53.1	49.1	47.8	-
Mining machinery	3532	16.8	16.7	17.1	16.9	-	10.2	10.3	10.6	10.4	-
Oil and gas field machinery	3533	39.2	39.5	42.4	43.5	-	22.8	22.6	26.4	27.4	-
Conveyors and conveying equipment	3535	34.6	35.1	34.3	34.6	-	18.6	19.2	19.1	19.5	-
Industrial trucks and tractors	3537	28.9	29.1	28.1	27.9	-	19.8	19.9	18.7	18.6	-
Metalworking machinery	354	337.1	337.6	327.4	325.5	-	240.7	241.4	234.4	232.4	-
Machine tools, metal cutting types	3541	49.4	49.3	45.8	45.4	-	31.8	31.8	29.3	28.9	-
Machine tools, metal forming types	3542	18.7	18.7	18.2	18.1	-	11.9	11.9	11.4	11.2	-
Special dies, tools, jigs, and fixtures	3544	149.5	149.7	146.9	146.2	-	115.7	116.1	114.1	113.3	-
Machine tool accessories	3545	57.6	58.0	54.7	54.2	-	40.5	40.8	38.5	38.2	-
Power driven handtools	3546	21.1	21.1	20.9	20.8	-	14.6	14.6	14.5	14.5	-
Special industry machinery	355	159.8	160.5	156.0	154.9	-	95.6	96.0	92.2	91.4	-
Textile machinery	3552	19.2	19.2	18.4	18.4	-	12.6	12.7	12.2	12.2	-
Printing trades machinery	3555	24.0	24.1	23.3	22.8	-	13.5	13.5	12.6	12.2	-
Food products machinery	3556	24.2	24.4	23.0	23.1	-	14.6	14.7	13.9	13.9	-
General industrial machinery	356	243.5	244.4	241.0	241.7	-	157.2	157.6	153.5	154.2	-
Pumps and pumping equipment	3561	28.7	29.0	29.0	29.0	-	16.6	16.7	16.6	16.6	-
Ball and roller bearings	3562	44.0	43.7	43.5	43.6	-	34.3	34.1	33.7	33.9	-
Air and gas compressors	3563	24.2	24.3	24.4	24.6	-	13.7	13.6	13.4	13.6	-
Blowers and fans	3564	31.3	31.5	31.3	31.2	-	21.2	21.3	20.8	20.8	-
Speed changers, drives, and gears	3566	16.4	16.5	16.4	16.4	-	11.6	11.7	11.6	11.6	-
Power transmission equipment, nec	3568	19.0	19.0	18.4	18.3	-	13.0	13.0	12.4	12.3	-
Computer and office equipment	357	461.2	464.6	440.4	439.7	-	145.9	147.7	138.7	139.4	-
Electronic computers	3571	288.9	289.6	271.4	270.5	-	76.3	76.8	68.9	69.1	-
Computer terminals, calculators, and office machines, nec	3575,8,9	71.7	72.8	67.2	67.4	-	22.1	22.3	21.3	21.9	-
Refrigeration and service machinery	358	186.4	185.1	173.7	170.6	-	133.5	132.2	121.2	118.6	-
Refrigeration and heating equipment	3585	131.6	130.2	121.3	118.8	-	97.4	96.0	87.5	85.6	-
Misc. industrial and commercial machinery	359	318.7	318.5	309.8	308.8	-	234.0	234.0	226.6	225.8	-
Carburetors, pistons, rings, valves	3592	23.8	23.5	23.1	22.8	-	18.6	18.4	18.7	18.4	-
Scales, balances, and industrial machinery, nec	3596,9	244.5	244.5	238.7	238.2	-	186.3	186.2	180.3	179.9	-
Electronic and other electrical equipment	36	1,743.4	1,730.0	1,673.7	1,663.4	1,656.5	1,103.1	1,094.5	1,056.0	1,046.9	1,043.4
Electric distribution equipment	361	98.5	98.1	94.5	94.6	-	69.8	69.3	65.8	65.8	-
Transformers, except electronic	3612	49.8	49.7	47.3	47.3	-	35.6	35.4	33.3	33.3	-
Switchgear and switchboard apparatus	3613	48.7	48.4	47.2	47.3	-	34.2	33.9	32.5	32.5	-
Electrical industrial apparatus	362	175.4	175.5	167.9	166.9	-	124.2	124.1	117.4	116.6	-
Motors and generators	3621	87.7	88.1	82.8	82.3	-	68.9	69.2	63.9	63.3	-
Relays and industrial controls	3625	67.6	67.6	65.5	65.1	-	41.5	41.3	40.0	39.9	-
Household appliances	363	131.8	125.6	126.1	124.7	-	105.7	100.3	100.5	99.1	-
Household refrigerators and freezers	3632	27.4	24.4	26.1	25.7	-	22.0	19.3	21.3	20.9	-
Household laundry equipment	3633	20.8	20.9	20.4	20.2	-	16.8	17.1	15.8	15.6	-
Electric housewares and fans	3634	37.7	35.8	36.2	35.9	-	29.8	27.9	27.9	27.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment	364	194.3	193.4	187.9	185.2	-	140.8	140.1	135.7	133.5	-
Electric lamps	3641	25.4	25.3	24.5	24.6	-	21.6	21.6	20.8	20.8	-
Current-carrying wiring devices	3643	74.6	74.5	73.0	72.1	-	48.7	48.7	48.2	47.8	-
Noncurrent-carrying wiring devices	3644	16.3	16.4	15.6	15.5	-	12.3	12.2	11.3	11.1	-
Residential lighting fixtures	3645	26.5	25.8	25.4	24.5	-	19.9	19.3	18.7	17.8	-
Household audio and video equipment	365	90.4	88.2	86.7	86.0	-	64.7	62.5	59.5	58.7	-
Household audio and video equipment	3651	67.9	66.7	64.5	64.2	-	46.9	45.9	42.2	41.7	-
Communications equipment	366	269.4	266.7	254.0	252.1	-	135.0	135.9	128.1	125.9	-
Telephone and telegraph apparatus	3661	139.1	136.3	129.0	127.6	-	76.6	76.8	69.0	67.3	-
Electronic components and accessories	367	612.3	611.6	589.7	587.2	-	344.0	344.0	333.8	332.5	-
Electron tubes	3671	35.4	35.3	33.2	33.3	-	23.4	23.3	21.7	21.8	-
Semiconductors and related devices	3674	249.3	248.4	241.3	240.1	-	95.6	94.8	94.6	93.7	-
Electronic components, nec	3679	150.4	149.2	143.1	142.0	-	95.0	94.2	90.1	89.6	-
Misc. electrical equipment and supplies	369	171.3	170.9	166.9	166.7	-	118.9	118.3	115.2	114.8	-
Storage batteries	3691	30.1	30.2	29.9	30.0	-	23.3	23.3	23.2	23.2	-
Engine electrical equipment	3694	71.4	71.0	68.1	67.6	-	54.3	53.8	51.4	51.1	-
Transportation equipment	37	2,033.6	2,041.0	1,969.3	1,905.8	1,926.0	1,258.2	1,263.8	1,221.3	1,165.4	1,183.2
Motor vehicles and equipment	371	833.1	838.1	806.6	753.2	777.1	640.5	644.9	617.3	570.3	590.3
Motor vehicles and car bodies	3711	330.6	337.1	312.1	281.2	-	242.4	248.3	227.8	200.8	-
Truck and bus bodies	3713	41.1	41.3	40.8	37.3	-	32.0	32.3	31.7	28.7	-
Motor vehicle parts and accessories	3714	413.4	412.1	409.6	393.0	-	329.3	327.8	324.6	309.8	-
Truck trailers	3715	28.2	27.7	27.5	26.4	-	22.1	21.6	21.3	20.2	-
Aircraft and parts	372	720.5	723.0	697.8	693.3	-	346.8	347.7	340.2	336.2	-
Aircraft	3721	388.4	389.8	368.7	365.7	-	168.2	168.1	159.9	157.5	-
Aircraft engines and engine parts	3724	155.9	156.6	155.5	155.4	-	78.2	78.8	79.9	79.6	-
Aircraft parts and equipment, nec	3728	176.2	176.6	173.6	172.2	-	100.4	100.8	100.4	99.1	-
Ship and boat building and repairing	373	191.8	191.1	187.5	183.8	-	144.3	144.0	142.8	139.2	-
Ship building and repairing	3731	128.0	127.5	133.0	130.0	-	92.1	92.1	97.9	94.9	-
Boat building and repairing	3732	63.8	63.6	54.5	53.8	-	52.2	51.9	44.9	44.3	-
Railroad equipment	374	34.9	34.5	34.1	34.3	-	26.2	25.8	25.1	25.3	-
Guided missiles, space vehicles, and parts	376	193.2	194.1	184.3	183.7	-	60.3	61.0	56.8	56.6	-
Guided missiles and space vehicles	3761	137.6	138.5	133.6	133.5	-	39.1	39.3	37.4	37.7	-
Miscellaneous transportation equipment	379	46.6	46.7	45.7	44.4	-	30.2	30.4	29.9	28.9	-
Travel trailers and campers	3792	17.8	17.8	17.6	16.8	-	13.8	13.8	13.6	12.9	-
Instruments and related products	38	1,019.6	1,014.1	986.7	984.5	985.3	506.2	503.9	487.6	485.5	486.7
Search and navigation equipment	381	293.4	290.6	275.5	274.4	-	99.1	98.1	89.2	88.5	-
Measuring and controlling devices	382	329.2	328.9	316.5	315.4	-	184.6	183.9	176.1	175.1	-
Environmental controls	3822	50.0	49.6	47.3	46.8	-	33.4	33.3	32.2	31.8	-
Process control instruments	3823	65.7	65.8	65.2	64.8	-	35.0	34.8	33.7	33.5	-
Instruments to measure electricity	3825	99.1	98.8	92.9	92.4	-	49.8	49.9	46.8	46.5	-
Medical instruments and supplies	384	240.8	240.8	243.7	244.7	-	140.2	140.5	143.2	143.4	-
Surgical and medical instruments	3841	99.4	99.7	101.6	101.9	-	57.0	57.3	59.4	59.5	-
Surgical appliances and supplies	3842	90.5	90.6	92.9	93.5	-	56.6	56.8	58.9	59.4	-
Ophthalmic goods	385	40.0	39.9	38.5	38.4	-	27.7	27.6	26.6	26.8	-
Photographic equipment and supplies	386	104.8	102.8	101.1	100.9	-	46.2	45.8	43.7	43.5	-
Watches, clocks, watchcases, and parts	387	11.4	11.1	11.4	10.7	-	8.4	8.0	8.8	8.2	-
Miscellaneous manufacturing industries	39	390.1	383.9	391.8	387.7	381.3	286.2	280.2	284.4	280.7	274.7
Jewelry, silverware, and plated ware	391	55.5	54.1	55.3	54.8	-	39.5	38.6	39.6	39.1	-
Jewelry, precious metal	3911	40.5	39.6	40.5	40.3	-	28.6	28.0	28.9	28.6	-
Musical instruments	393	12.1	12.3	11.9	11.7	-	10.0	10.1	9.7	9.6	-
Toys and sporting goods	394	105.7	102.6	107.2	106.3	-	77.8	74.4	78.5	77.8	-
Dolls, games, toys, and children's vehicles	3942.4	46.3	43.0	46.9	45.5	-	33.4	30.0	33.5	32.4	-
Sporting and athletic goods, nec	3949	59.4	59.6	60.3	60.8	-	44.4	44.4	45.0	45.4	-
Pens, pencils, office, and art supplies	395	35.1	35.0	33.8	33.8	-	24.5	24.4	23.5	23.5	-
Costume jewelry and notions	396	38.4	37.8	39.2	38.7	-	30.4	29.9	29.1	28.6	-
Costume jewelry	3961	24.6	24.0	26.0	25.7	-	19.5	19.1	19.0	18.6	-
Miscellaneous manufactures	399	143.3	142.1	144.4	142.4	-	104.0	102.8	104.0	102.1	-
Signs and advertising specialties	3993	58.4	58.4	57.4	56.1	-	40.7	40.8	40.1	38.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Nondurable goods		8,027	7,990	7,985	7,918	7,869	5,658	5,618	5,600	5,538	5,490
Food and kindred products	20	1,666.4	1,640.3	1,700.3	1,665.7	1,645.3	1,199.9	1,171.7	1,236.2	1,205.0	1,181.7
Meat products	201	419.0	417.7	424.2	428.9	-	356.6	355.6	362.2	366.7	-
Meat packing plants	2011	140.9	140.9	140.9	142.9	-	118.5	118.5	119.5	121.7	-
Sausages and other prepared meats	2013	84.9	84.8	85.3	85.6	-	63.1	62.9	63.9	64.6	-
Poultry slaughtering and processing	2015	193.2	192.0	198.0	200.4	-	175.0	174.2	178.8	180.4	-
Dairy products	202	155.0	154.7	152.7	151.7	-	94.0	93.5	93.1	92.8	-
Cheese, natural and processed	2022	42.7	42.6	41.4	41.4	-	32.9	32.7	32.1	32.2	-
Fluid milk	2026	74.4	74.2	73.9	73.4	-	37.1	36.8	36.6	36.6	-
Preserved fruits and vegetables	203	241.1	224.1	268.9	232.2	-	199.2	182.7	228.3	193.2	-
Canned specialties	2032	25.5	25.2	24.9	24.7	-	19.2	18.9	20.4	20.2	-
Canned fruits and vegetables	2033	79.4	69.4	100.9	76.3	-	66.9	57.2	88.6	65.0	-
Frozen fruits and vegetables	2037	54.8	50.3	57.3	49.8	-	48.7	44.3	50.3	43.2	-
Grain mill products	204	127.0	128.7	129.4	128.9	-	88.7	88.5	90.6	90.6	-
Flour and other grain mill products	2041	21.7	21.8	23.0	23.3	-	14.6	14.5	14.8	15.3	-
Prepared feeds, nec	2048	44.5	44.8	44.2	44.0	-	27.8	28.0	28.4	28.3	-
Bakery products	205	216.9	214.9	213.2	213.2	-	135.7	133.6	135.0	135.1	-
Bread, cake, and related products	2051	157.8	156.7	152.1	152.1	-	90.1	88.8	87.6	87.7	-
Cookies, crackers, and frozen bakery products, except bread	2052,3	59.1	58.2	61.1	61.1	-	45.6	44.8	47.4	47.4	-
Sugar and confectionery products	206	118.2	113.7	121.4	124.5	-	95.6	91.0	98.6	100.0	-
Raw cane sugar	2061	8.8	8.4	6.2	8.5	-	6.8	6.5	4.6	6.7	-
Cane sugar refining	2062	4.8	5.4	5.3	5.4	-	3.6	4.1	3.9	3.9	-
Beet sugar	2063	13.1	11.5	16.1	12.8	-	11.3	10.0	14.4	11.1	-
Candy and other confectionery products	2064	60.2	57.5	61.5	65.6	-	51.4	48.4	52.1	54.8	-
Fats and oils	207	31.3	30.9	30.4	30.1	-	23.0	22.6	21.6	21.3	-
Beverages	208	187.1	186.4	185.7	182.9	-	79.1	78.7	77.8	76.8	-
Malt beverages	2082	40.8	40.6	40.2	40.2	-	24.5	24.6	23.6	23.5	-
Bottled and canned soft drinks	2086	104.8	104.4	103.8	102.1	-	34.0	33.7	33.7	33.5	-
Misc. food and kindred products	209	170.8	169.2	174.4	173.3	-	128.0	125.5	129.0	128.5	-
Tobacco products	21	49.4	50.1	48.6	47.8	48.2	37.5	38.2	36.3	35.3	35.5
Cigarettes	211	34.0	34.0	34.0	34.1	-	25.4	25.4	25.2	25.0	-
Textile mill products	22	720.4	716.2	690.4	689.3	682.1	621.2	617.4	591.1	590.1	582.5
Broadwoven fabric mills, cotton	221	95.3	95.2	89.2	89.6	-	86.1	86.0	79.3	79.6	-
Broadwoven fabric mills, synthetics	222	83.2	83.1	81.7	81.5	-	73.5	73.5	71.5	71.6	-
Broadwoven fabric mills, wool	223	18.2	18.1	17.7	17.2	-	14.5	14.5	14.3	13.9	-
Narrow fabric mills	224	25.0	24.6	24.5	24.3	-	21.2	20.8	20.8	20.6	-
Knitting mills	225	215.9	213.0	200.7	203.0	-	189.1	186.2	174.3	175.9	-
Women's hosiery, except socks	2251	32.9	32.6	32.1	32.2	-	29.3	29.0	28.6	28.8	-
Hosiery, nec	2252	40.4	39.9	37.8	37.4	-	36.7	36.0	33.7	33.3	-
Knit outerwear mills	2253	67.0	65.5	58.5	61.3	-	59.1	57.7	50.4	52.4	-
Knit underwear mills	2254	28.9	28.6	27.1	27.0	-	24.5	24.2	23.3	23.1	-
Weft knit fabric mills	2257	27.8	27.6	26.3	26.5	-	24.2	24.0	22.8	23.0	-
Textile finishing, except wool	226	61.7	61.4	60.7	60.1	-	50.0	49.7	49.4	49.0	-
Finishing plants, cotton	2261	25.6	25.7	25.4	25.3	-	20.5	20.6	20.6	20.5	-
Finishing plants, synthetics	2262	23.7	23.6	23.3	23.1	-	19.0	18.8	18.7	18.6	-
Carpets and rugs	227	63.9	64.4	65.0	64.2	-	52.0	52.6	53.4	52.8	-
Yarn and thread mills	228	105.1	104.7	100.5	98.9	-	94.4	94.1	89.7	88.2	-
Yarn spinning mills	2281	83.5	83.1	80.3	79.0	-	75.2	74.9	72.0	70.6	-
Throwing and winding mills	2282	15.0	15.0	14.2	14.0	-	13.3	13.3	12.4	12.3	-
Miscellaneous textile goods	229	52.1	51.7	50.4	50.5	-	40.4	40.0	38.4	38.5	-
Apparel and other textile products	23	1,071.8	1,062.5	1,027.7	1,016.5	1,006.6	903.5	893.7	861.2	850.7	842.2
Men's and boys' suits and coats	231	52.3	52.4	48.2	48.6	-	44.3	44.5	40.5	40.7	-
Men's and boys' furnishings	232	286.0	283.9	264.7	262.6	-	247.0	245.1	226.3	225.3	-
Men's and boys' shirts	2321	67.4	67.4	60.1	59.1	-	57.4	57.3	50.9	50.4	-
Men's and boys' trousers and slacks	2325	88.0	87.0	81.5	81.1	-	77.4	76.6	70.2	70.2	-
Men's and boys' work clothing	2326	46.2	46.4	44.3	43.8	-	40.3	40.4	38.2	37.8	-
Women's and misses' outerwear	233	335.1	332.6	329.3	325.8	-	280.0	277.8	276.2	272.6	-
Women's and misses' blouses and shirts	2331	41.5	41.1	39.4	38.5	-	34.0	33.7	32.3	31.6	-
Women's, juniors', and misses' dresses	2335	73.6	72.7	71.2	70.4	-	61.1	60.3	58.3	57.8	-
Women's and misses' suits and coats	2337	37.6	35.5	42.2	40.4	-	31.2	29.2	35.5	33.6	-
Women's and misses' outerwear, nec	2339	182.4	183.3	176.5	176.5	-	153.7	154.6	150.1	149.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	65.4	63.9	62.2	61.8	-	54.5	52.8	50.8	50.2	-
Women's and children's underwear	2341	51.8	50.3	49.7	49.5	-	45.0	43.5	42.4	41.9	-
Brassieres, girdles, and allied garments	2342	13.6	13.6	12.5	12.3	-	9.5	9.3	8.4	8.3	-
Girls' and children's outerwear	236	59.7	59.8	56.2	56.2	-	49.8	49.9	47.4	47.4	-
Girls' and children's dresses and blouses	2361	23.0	23.0	22.4	22.8	-	20.0	19.9	19.6	19.9	-
Misc. apparel and accessories	238	45.7	44.2	43.9	43.3	-	38.2	36.5	36.1	35.7	-
Misc. fabricated textile products	239	209.3	207.6	205.0	200.0	-	174.8	172.3	168.9	163.9	-
Curtains and draperies	2391	25.7	25.6	24.0	23.3	-	21.4	21.2	19.8	19.2	-
House furnishings, nec	2392	57.9	57.3	56.0	56.0	-	48.9	48.3	46.6	46.8	-
Automotive and apparel trimmings	2396	47.2	46.8	48.5	45.5	-	39.3	38.6	40.0	36.9	-
Paper and allied products	26	697.5	698.8	698.9	696.0	696.7	524.0	524.2	525.7	523.0	523.6
Paper mills	262	177.1	177.9	176.6	176.7	-	133.8	134.3	133.4	133.6	-
Paperboard mills	263	51.5	51.9	50.7	50.5	-	39.3	39.8	39.3	39.3	-
Paperboard containers and boxes	265	210.6	210.5	210.6	210.2	-	163.0	162.3	163.0	162.6	-
Corrugated and solid fiber boxes	2653	118.6	118.8	118.9	119.1	-	89.3	89.3	89.3	89.4	-
Sanitary food containers	2656	14.3	14.5	15.1	14.9	-	12.0	12.2	12.7	12.5	-
Folding paperboard boxes	2657	50.9	50.8	50.9	51.0	-	40.8	40.4	41.0	41.2	-
Misc. converted paper products	267	241.9	241.8	244.2	241.9	-	175.0	174.7	177.1	174.7	-
Paper, coated and laminated, nec	2672	44.0	44.4	44.6	44.6	-	21.3	21.6	21.5	21.5	-
Bags: plastics, laminated, and coated	2673	33.7	33.8	34.5	34.4	-	25.4	25.4	26.1	25.8	-
Envelopes	2677	27.1	27.3	26.7	26.8	-	21.0	21.2	20.8	20.8	-
Printing and publishing	27	1,576.5	1,581.5	1,575.4	1,578.0	1,578.1	873.0	879.8	870.2	872.0	872.6
Newspapers	271	476.6	477.5	478.9	478.1	-	166.5	167.5	166.7	166.7	-
Periodicals	272	130.4	129.8	132.1	132.3	-	47.6	47.3	48.8	49.0	-
Books	273	118.5	122.0	116.2	117.7	-	62.2	66.3	60.2	61.6	-
Book publishing	2731	84.2	85.8	82.4	83.2	-	35.1	37.2	32.9	33.6	-
Book printing	2732	34.3	36.2	33.8	34.5	-	27.1	29.1	27.3	28.0	-
Miscellaneous publishing	274	83.0	83.5	82.3	82.8	-	41.3	42.4	42.1	41.8	-
Commercial printing	275	553.1	553.5	550.3	552.1	-	402.6	402.9	400.2	401.0	-
Commercial printing, lithographic	2752	364.4	365.2	365.7	366.8	-	264.5	265.2	265.9	266.5	-
Commercial printing, nec	2759	173.0	172.8	169.1	169.9	-	125.6	125.5	122.0	122.2	-
Manifold business forms	276	49.6	49.7	48.4	48.2	-	34.2	34.5	33.6	33.6	-
Blankbooks and bookbinding	278	75.7	75.9	75.1	74.4	-	58.2	58.5	57.6	56.9	-
Printing trade services	279	64.4	64.6	64.1	64.3	-	47.6	47.7	46.8	47.2	-
Chemicals and allied products	28	1,074.3	1,078.4	1,085.3	1,082.5	1,084.7	601.7	603.4	595.4	592.9	594.8
Industrial inorganic chemicals	281	133.0	133.2	134.7	134.3	-	69.7	69.4	68.1	68.6	-
Industrial inorganic chemicals, nec	2819	89.8	90.0	90.5	90.3	-	47.6	47.8	47.3	47.3	-
Plastics materials and synthetics	282	184.8	184.7	184.0	183.9	-	120.5	119.8	116.4	116.0	-
Plastics materials and resins	2821	89.0	89.2	88.2	88.3	-	52.2	52.2	51.3	51.4	-
Organic fibers, noncellulosic	2824	66.3	66.4	65.7	65.5	-	47.4	47.1	44.7	44.3	-
Drugs	283	234.3	235.8	239.9	240.6	-	103.9	105.3	106.7	107.2	-
Pharmaceutical preparations	2834	194.8	196.1	198.3	198.8	-	86.8	88.1	90.1	90.6	-
Soap, cleaners, and toilet goods	284	157.5	159.2	158.9	156.6	-	97.3	98.3	97.7	95.6	-
Soap and other detergents	2841	43.9	44.4	44.2	44.8	-	27.6	28.0	28.4	28.8	-
Polishing, sanitation, and finishing preparations	2842,3	43.6	44.0	45.1	44.7	-	23.7	23.7	24.4	24.0	-
Toilet preparations	2844	70.0	70.8	69.6	67.1	-	46.0	46.6	44.9	42.8	-
Paints and allied products	285	62.7	62.5	62.7	62.2	-	31.7	31.6	31.9	31.5	-
Industrial organic chemicals	286	150.7	151.4	152.3	152.3	-	87.1	87.2	83.2	82.6	-
Cyclic crudes and intermediates	2865	28.8	29.1	29.4	29.3	-	17.3	17.4	17.6	17.6	-
Industrial organic chemicals, nec	2869	117.6	117.9	118.7	118.8	-	66.8	66.8	62.7	62.2	-
Agricultural chemicals	287	52.1	52.3	52.3	52.5	-	32.2	32.4	31.8	32.0	-
Miscellaneous chemical products	289	99.2	99.3	100.5	100.1	-	59.3	59.4	59.6	59.4	-
Petroleum and coal products	29	158.4	155.1	162.6	162.0	158.3	103.8	100.7	107.0	106.8	103.3
Petroleum refining	291	118.4	118.3	120.2	120.7	-	75.3	75.4	76.6	77.3	-
Asphalt paving and roofing materials	295	28.1	24.9	30.1	29.0	-	21.8	18.6	23.3	22.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²
Nondurable goods—Continued											
Rubber and misc. plastics products	30	877.9	874.8	871.8	857.8	848.9	682.0	679.0	675.5	662.9	656.2
Tires and inner tubes	301	83.8	85.6	86.0	86.0	-	62.5	63.7	62.9	63.3	-
Rubber and plastics footwear	302	11.3	11.1	11.0	10.8	-	9.3	9.0	8.9	8.7	-
Hose, belting, gaskets, and packing	305	58.1	58.1	57.4	57.1	-	42.5	42.5	41.4	41.3	-
Rubber and plastics hose and belting	3052	25.4	25.4	24.1	24.2	-	19.0	19.0	17.9	18.1	-
Fabricated rubber products, nec	306	107.5	106.7	103.7	101.4	-	81.5	80.5	78.4	75.9	-
Miscellaneous plastics products, nec	308	617.2	613.3	613.7	602.5	-	486.2	483.3	483.9	473.7	-
Leather and leather products	31	134.7	132.1	124.1	122.0	119.9	111.8	109.4	101.7	99.6	97.5
Leather tanning and finishing	311	15.0	15.0	14.0	13.6	-	12.5	12.6	11.6	11.0	-
Footwear, except rubber	314	74.3	73.7	69.5	68.5	-	63.3	62.7	58.8	57.9	-
Men's footwear, except athletic	3143	32.6	32.5	29.2	29.3	-	26.6	26.5	23.8	23.8	-
Women's footwear, except athletic	3144	26.7	26.8	26.0	25.6	-	23.6	23.7	22.4	22.0	-
Luggage	316	11.5	11.1	10.4	10.3	-	8.5	8.1	7.0	7.1	-
Handbags and personal leather goods	317	16.4	15.0	13.3	13.0	-	13.3	11.8	10.4	10.0	-
Transportation and public utilities		5,735	5,823	5,921	5,909	5,925	4,780	4,849	4,924	4,911	4,934
Transportation		3,566	3,597	3,703	3,696	3,712	-	-	-	-	-
Railroad transportation	40	293.6	289.7	285.3	284.1	-	-	-	-	-	-
Class I railroads ²	4011	249.3	245.8	241.9	240.9	-	-	-	-	-	-
Local and interurban passenger transit	41	350.4	349.8	365.5	366.3	-	320.8	320.2	336.8	337.9	-
Local and suburban transportation	411	131.5	131.6	138.5	138.9	-	117.6	117.9	125.7	126.4	-
Taxicabs	412	33.6	33.8	32.9	33.5	-	-	-	-	-	-
Intercity and rural bus transportation	413	29.3	28.5	18.3	18.0	-	25.9	24.9	16.1	15.9	-
School buses	415	127.4	128.0	144.9	145.1	-	-	-	-	-	-
Trucking and warehousing	42	1,653.5	1,674.8	1,688.2	1,684.1	-	1,447.2	1,467.1	1,471.7	1,467.8	-
Trucking and courier services, except air	421	1,527.7	1,553.2	1,558.0	1,558.5	-	1,341.1	1,365.8	1,363.2	1,363.3	-
Public warehousing and storage	422	122.1	117.8	126.6	121.8	-	102.9	98.1	105.4	101.2	-
Water transportation	44	171.0	169.6	169.4	164.5	-	-	-	-	-	-
Water transportation of freight, nec	444	13.7	13.7	13.7	13.6	-	-	-	-	-	-
Water transportation services	449	112.4	111.2	106.7	104.5	-	100.4	99.1	94.2	92.0	-
Transportation by air	45	735.0	749.8	810.6	814.3	-	-	-	-	-	-
Air transportation, scheduled	451	610.0	622.7	677.0	681.8	-	-	-	-	-	-
Airports, flying fields, and services	458	98.4	100.0	104.0	103.4	-	-	-	-	-	-
Pipelines, except natural gas	46	19.1	19.1	19.6	19.6	-	13.7	13.7	14.4	14.4	-
Transportation services	47	342.9	343.9	364.6	363.1	-	-	-	-	-	-
Freight transportation arrangement	473	130.0	130.9	135.4	135.1	-	104.5	105.8	109.5	108.9	-
Communications and public utilities		2,169	2,226	2,218	2,213	2,213	-	-	-	-	-
Communications	48	1,237.0	1,294.0	1,273.7	1,269.8	-	922.9	962.8	950.6	950.7	-
Telephone communications	481	844.7	899.5	874.9	872.0	-	605.4	643.9	628.0	628.1	-
Radio and television broadcasting	483	233.8	234.6	234.8	234.7	-	193.1	193.4	194.3	194.2	-
Radio broadcasting stations	4832	121.0	121.4	121.3	121.3	-	-	-	-	-	-
Television broadcasting stations	4833	112.8	113.2	113.5	113.4	-	-	-	-	-	-
Cable and other pay television services	484	121.6	122.8	128.7	128.2	-	101.5	102.6	107.5	107.4	-
Electric, gas, and sanitary services	49	932.2	932.0	944.1	942.9	-	737.1	736.2	747.7	746.0	-
Electric services	491	440.8	441.2	441.2	440.5	-	338.0	338.3	340.4	340.7	-
Gas production and distribution	492	165.2	165.2	167.7	167.9	-	129.1	129.1	131.1	130.9	-
Combination utility services	493	191.7	191.4	192.7	192.0	-	155.4	154.7	155.9	154.3	-
Sanitary services	495	105.5	105.2	112.8	112.9	-	92.0	91.4	97.2	97.0	-
Wholesale trade		6,344	6,346	6,373	6,352	6,328	5,103	5,099	5,110	5,091	5,065
Durable goods	50	3,760	3,768	3,752	3,742	3,731	3,004	3,006	2,974	2,965	-
Motor vehicles, parts, and supplies	501	451.1	452.3	449.5	447.2	-	365.1	366.2	362.8	360.5	-
Automobiles and other motor vehicles	5012	121.5	122.4	121.1	121.1	-	-	-	-	-	-
Motor vehicle supplies and new parts	5013	260.6	261.0	259.5	258.3	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	158.0	157.3	151.2	151.5	-	128.1	127.3	121.7	121.9	-
Furniture	5021	71.9	71.5	67.9	68.2	-	-	-	-	-	-
Home furnishings	5023	86.1	85.8	83.3	83.3	-	-	-	-	-	-
Lumber and other construction materials	503	239.9	238.3	241.6	239.6	-	196.1	193.9	196.0	194.4	-
Lumber, plywood, and millwork	5031	123.3	123.9	124.1	123.2	-	-	-	-	-	-
Construction materials, nec	5039	49.9	49.6	50.0	49.6	-	-	-	-	-	-
Professional and commercial equipment	504	795.9	799.1	784.6	785.3	-	643.0	644.5	632.5	631.9	-
Computers, peripherals and software	5045	313.7	315.1	299.0	299.6	-	-	-	-	-	-
Metals and minerals, except petroleum	505	144.2	144.0	140.7	140.8	-	114.3	113.9	111.6	111.3	-
Electrical goods	506	532.5	536.2	543.5	543.5	-	404.1	407.3	402.3	401.4	-
Electrical apparatus and equipment	5063	205.5	206.4	210.4	210.8	-	-	-	-	-	-
Electrical appliances, television and radio sets	5064	70.3	69.9	69.3	68.9	-	-	-	-	-	-
Electronic parts and equipment	5065	256.7	259.9	263.8	263.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	286.4	285.4	281.6	279.9	-	231.7	230.5	226.9	225.4	-
Hardware	5072	97.4	97.0	95.5	95.1	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	120.2	120.0	117.4	116.5	-	-	-	-	-	-
Machinery, equipment, and supplies	508	841.1	843.3	855.4	849.2	-	669.6	670.8	678.6	673.4	-
Construction and mining machinery	5082	86.6	86.9	86.3	85.5	-	-	-	-	-	-
Farm and garden machinery	5083	117.2	116.5	120.1	118.8	-	-	-	-	-	-
Industrial machinery and equipment	5084	359.5	360.6	364.3	361.3	-	-	-	-	-	-
Industrial supplies	5085	149.5	150.3	152.3	152.4	-	-	-	-	-	-
Misc. wholesale trade durable goods	509	311.0	311.9	303.4	305.0	-	251.6	252.0	241.6	244.4	-
Scrap and waste materials	5093	112.8	112.6	113.9	113.4	-	-	-	-	-	-
Nondurable goods	51	2,584	2,578	2,621	2,610	2,597	2,099	2,093	2,136	2,126	-
Paper and paper products	511	231.7	230.5	231.6	231.6	-	185.2	184.8	186.4	187.0	-
Drugs, proprietaries, and sundries	512	189.0	189.1	190.0	190.2	-	158.6	158.5	159.6	159.8	-
Apparel, piece goods, and notions	513	211.7	211.7	217.3	213.2	-	164.7	164.1	172.1	168.5	-
Groceries and related products	514	850.1	848.3	859.8	854.9	-	715.5	713.8	721.5	716.5	-
Groceries, general line	5141	272.6	273.7	278.3	279.4	-	-	-	-	-	-
Meats and meat products	5147	63.7	64.2	62.8	64.1	-	-	-	-	-	-
Fresh fruits and vegetables	5148	100.3	100.2	107.1	101.1	-	-	-	-	-	-
Chemicals and allied products	516	127.8	127.9	129.8	129.1	-	90.9	91.0	92.9	92.5	-
Petroleum and petroleum products	517	212.0	212.5	213.6	213.8	-	166.5	166.8	169.4	169.4	-
Petroleum bulk stations and terminals	5171	92.4	92.6	95.6	95.9	-	-	-	-	-	-
Petroleum products, nec	5172	119.6	119.9	118.0	117.9	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	150.6	151.4	155.1	156.6	-	123.1	123.6	127.4	128.6	-
Beer and ale	5181	95.4	95.2	99.0	99.0	-	-	-	-	-	-
Wine and distilled beverages	5182	55.2	56.2	56.1	57.6	-	-	-	-	-	-
Misc. wholesale trade nondurable goods	519	482.3	480.5	492.5	494.7	-	388.7	386.4	398.2	400.2	-
Farm supplies	5191	156.7	155.2	164.7	164.0	-	-	-	-	-	-
Retail trade		20,031	20,335	19,812	20,058	20,324	17,787	18,082	17,543	17,778	18,036
Building materials and garden supplies	52	788.4	783.0	786.5	778.1	-	654.6	649.8	651.3	643.4	-
Lumber and other building materials	521	442.7	437.0	434.9	427.9	-	374.4	368.7	365.7	358.9	-
Hardware stores	525	166.0	167.6	169.5	169.8	-	137.2	138.8	139.9	139.8	-
General merchandise stores	53	2,712.1	2,815.2	2,472.9	2,593.7	2,690.2	2,548.6	2,652.3	2,318.7	2,437.0	-
Department stores	531	2,250.1	2,327.3	2,053.1	2,145.8	-	2,128.4	2,207.1	1,941.5	2,031.8	-
Variety stores	533	230.8	238.9	208.7	219.9	-	213.2	221.4	190.5	201.7	-
Miscellaneous general merchandise stores	539	231.2	249.0	211.1	228.0	-	207.0	223.8	186.7	203.5	-
Food stores	54	3,279.4	3,317.1	3,313.9	3,357.2	3,388.4	3,021.1	3,057.2	3,049.0	3,086.0	-
Grocery stores	541	2,900.3	2,921.2	2,933.3	2,956.6	-	2,686.3	2,705.3	2,714.4	2,734.7	-
Meat and fish markets	542	56.4	58.5	55.4	60.7	-	-	-	-	-	-
Dairy products stores	545	28.9	30.6	25.9	30.2	-	-	-	-	-	-
Retail bakeries	546	178.5	179.4	181.0	182.5	-	160.1	161.2	161.2	162.9	-
Automotive dealers and service stations	55	2,112.2	2,099.9	2,138.8	2,122.1	2,106.3	1,761.7	1,749.7	1,778.7	1,764.6	-
New and used car dealers	551	951.9	943.5	958.5	952.7	-	791.8	783.8	795.6	790.7	-
Auto and home supply stores	553	353.2	350.9	364.5	361.6	-	284.0	281.7	291.8	289.6	-
Gasoline service stations	554	641.3	642.3	638.1	634.9	-	554.1	554.8	550.5	547.3	-
Automotive dealers, nec	559	12.0	12.2	15.0	15.0	-	9.9	10.1	12.2	12.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²
Retail trade—Continued											
Apparel and accessory stores	56	1,236.3	1,295.8	1,121.6	1,166.5	-	1,045.4	1,101.6	938.0	980.2	-
Men's and boys' clothing stores	561	113.1	121.4	98.2	101.8	-	91.5	99.5	78.6	82.3	-
Women's clothing stores	562	430.0	448.0	389.4	400.8	-	359.9	377.3	324.4	334.8	-
Family clothing stores	565	299.9	321.0	262.1	288.6	-	261.5	281.7	226.1	251.1	-
Shoe stores	566	233.0	238.8	222.1	220.5	-	194.9	200.6	182.3	181.1	-
Furniture and home furnishings stores	57	851.0	866.2	825.0	837.9	-	701.9	717.6	675.3	687.7	-
Furniture and home furnishings stores	571	480.4	484.7	469.5	472.9	-	392.1	397.5	382.6	385.2	-
Furniture stores	5712	291.7	293.7	286.6	287.8	-	-	-	-	-	-
Household appliance stores	572	85.8	86.3	75.9	75.6	-	71.7	72.2	62.2	62.5	-
Radio, television, and computer stores	573	284.8	295.2	279.6	289.4	-	238.1	247.9	230.5	240.0	-
Radio, television, and electronic stores	5731	126.5	130.0	124.8	130.9	-	107.6	110.3	105.5	111.6	-
Record and prerecorded tape stores	5735	61.0	67.7	58.9	61.8	-	52.6	59.5	49.3	51.8	-
Eating and drinking places	58	6,463.6	6,487.6	6,619.4	6,592.9	6,611.5	5,864.2	5,884.4	6,004.6	5,974.2	-
Miscellaneous retail establishments	59	2,588.4	2,670.4	2,533.8	2,609.5	-	2,189.9	2,269.1	2,127.8	2,205.0	-
Drug stores and proprietary stores	591	620.4	631.3	621.8	629.0	-	526.4	536.5	524.2	532.2	-
Liquor stores	592	124.0	127.4	124.4	125.4	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	953.7	1,011.3	901.0	953.5	-	808.5	864.3	752.6	805.2	-
Sporting goods and bicycle shops	5941	170.3	175.5	170.5	174.9	-	-	-	-	-	-
Book stores	5942	92.8	96.9	97.0	98.3	-	-	-	-	-	-
Stationery stores	5943	84.3	85.3	81.4	82.5	-	-	-	-	-	-
Jewelry stores	5944	166.4	175.8	154.9	161.6	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	191.9	200.1	185.1	190.1	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	64.6	65.3	66.4	68.5	-	-	-	-	-	-
Nonstore retailers	596	296.5	293.3	275.9	282.0	-	264.6	261.1	244.3	250.8	-
Catalog and mail-order houses	5961	157.6	156.7	145.0	152.0	-	-	-	-	-	-
Merchandising machine operators	5962	86.1	85.2	82.1	81.7	-	-	-	-	-	-
Fuel dealers	598	114.5	117.4	113.5	115.5	-	95.6	98.7	94.3	96.2	-
Retail stores, nec	599	413.4	423.4	425.0	433.0	-	339.3	349.1	350.6	358.1	-
Finance, insurance, and real estate³		6,752	6,768	6,824	6,812	6,813	4,894	4,912	4,942	4,928	4,932
Finance		3,320	3,329	3,333	3,334	3,338	-	-	-	-	-
Depository institutions	60	2,296.6	2,302.4	2,290.0	2,294.2	-	1,664.6	1,671.7	1,658.2	1,662.3	-
Commercial banks	602	1,557.4	1,560.8	1,551.9	1,555.6	-	1,105.6	1,109.9	1,101.8	1,105.4	-
State commercial banks	6022	668.0	668.4	666.9	666.3	-	-	-	-	-	-
Savings institutions	603	484.4	483.8	461.2	461.0	-	-	-	-	-	-
Federal savings institutions	6035	242.1	241.9	232.0	231.1	-	-	-	-	-	-
Savings institutions, except federal	6036	242.3	241.9	229.2	229.9	-	-	-	-	-	-
Credit unions	606	132.3	133.0	136.3	136.8	-	105.9	106.6	109.3	109.7	-
Nondepository institutions	61	367.0	369.7	372.4	371.4	-	265.0	268.1	270.7	269.8	-
Personal credit institutions	614	128.9	129.7	131.8	132.4	-	97.0	97.8	98.8	99.3	-
Business credit institutions	615	79.5	81.0	82.7	82.6	-	-	-	-	-	-
Mortgage bankers and brokers	616	148.9	149.4	148.7	147.3	-	-	-	-	-	-
Security and commodity brokers	62	425.9	427.6	424.1	421.2	-	-	-	-	-	-
Security brokers and dealers	621	327.8	327.7	320.6	317.9	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges	622,3	25.7	26.1	25.2	25.2	-	-	-	-	-	-
Security and commodity services	628	72.4	73.8	78.3	78.1	-	47.2	47.8	48.8	48.6	-
Holding and other investment offices	67	230.1	229.3	246.3	246.8	-	-	-	-	-	-
Insurance	63,64	2,110	2,117	2,146	2,148	2,149	-	-	-	-	-
Insurance carriers	63	1,454.0	1,459.0	1,484.6	1,486.6	-	972.7	977.5	998.2	1,002.8	-
Life insurance	631	555.0	555.5	558.3	558.2	-	340.4	342.4	341.6	340.5	-
Medical service and health insurance	632	233.4	235.0	249.1	250.5	-	188.5	190.4	202.2	203.9	-
Fire, marine, and casualty insurance	633	549.6	551.2	559.8	561.4	-	354.5	354.4	363.8	368.6	-
Title insurance	636	63.6	64.6	63.8	62.3	-	-	-	-	-	-
Insurance agents, brokers, and service	64	656.0	658.3	661.6	661.4	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²
Finance, insurance, and real estate—Continued											
Real estate	65	1,322	1,322	1,345	1,330	1,326	-	-	-	-	-
Real estate operators and lessors	651	555.1	560.6	582.7	579.6	-	-	-	-	-	
Real estate agents and managers	653	576.8	576.5	568.3	562.8	-	-	-	-	-	
Subdividers and developers	655	157.9	153.0	161.6	155.3	-	-	-	-	-	
Services		27,519	27,512	28,560	28,516	28,462	24,050	24,036	24,920	24,873	24,796
Hotels and other lodging places	70	1,564.1	1,553.9	1,603.8	1,571.0	-	-	-	-	-	
Hotels and motels	701	1,520.4	1,511.8	1,554.3	1,524.2	-	1,348.9	1,340.5	1,375.0	1,345.7	
Personal services	72	1,076.7	1,074.9	1,087.1	1,090.2	-	-	-	-	-	
Laundry, cleaning, and garment services	721	423.8	423.2	431.3	433.6	-	377.1	376.8	382.6	384.8	
Photographic studios, portrait	722	76.9	73.6	79.0	80.7	-	-	-	-	-	
Beauty shops	723	371.9	373.2	376.3	378.9	-	332.8	334.0	337.5	339.7	
Funeral service and crematories	726	81.7	82.5	85.2	85.4	-	-	-	-	-	
Miscellaneous personal services	729	97.8	97.8	91.9	87.3	-	84.2	84.8	79.4	74.8	
Business services	73	5,023.8	5,007.5	5,122.8	5,081.3	5,049.2	4,421.9	4,404.2	4,492.3	4,450.6	
Advertising	731	237.7	238.7	239.1	239.2	-	175.8	175.4	169.9	169.6	
Advertising agencies	7311	172.2	172.7	171.8	172.0	-	-	-	-	-	
Credit reporting and collection	732	103.6	103.4	105.6	105.5	-	-	-	-	-	
Mailing, reproduction, and stenographic services	733	239.7	242.7	263.5	265.4	-	-	-	-	-	
Services to buildings	734	799.1	794.7	783.9	786.8	-	727.6	723.0	709.5	713.3	
Personnel supply services	736	1,445.2	1,435.6	1,450.7	1,401.5	-	-	-	-	-	
Employment agencies	7361	235.8	236.2	237.4	230.2	-	-	-	-	-	
Help supply services	7363	1,209.4	1,199.4	1,213.3	1,171.3	-	1,174.9	1,164.8	1,173.3	1,130.3	
Computer and data processing services	737	770.3	777.6	811.1	817.6	-	599.0	606.0	633.7	638.5	
Prepackaged software	7372	105.6	106.8	116.5	117.5	-	-	-	-	-	
Data processing and preparation	7374	207.7	209.8	208.4	210.5	-	-	-	-	-	
Miscellaneous business services	738	1,218.0	1,205.5	1,247.8	1,246.2	-	1,077.5	1,066.4	1,104.2	1,104.8	
Detective and armored car services	7381	450.4	445.6	462.2	464.4	-	422.9	418.5	433.2	436.6	
Photofinishing laboratories	7384	87.9	85.6	86.2	85.9	-	-	-	-	-	
Auto repair, services, and parking	75	900.6	899.7	932.5	925.1	-	743.8	743.7	769.5	762.6	
Automotive rentals, without drivers	751	181.8	181.1	197.6	195.2	-	-	-	-	-	
Automotive repair shops	753	518.4	518.2	536.2	531.7	-	424.9	425.8	439.4	435.4	
Miscellaneous repair services	76	379.9	380.4	390.4	386.5	-	312.1	312.8	320.5	317.6	
Electrical repair shops	762	122.9	123.6	133.0	132.7	-	-	-	-	-	
Motion pictures	78	380.2	386.2	395.0	401.7	-	319.0	324.6	332.5	337.9	
Motion picture production and services	781	142.9	141.8	158.1	165.1	-	116.3	114.6	129.5	135.7	
Motion picture theaters	783	105.3	110.4	105.0	104.9	-	-	-	-	-	
Amusement and recreation services	79	976.9	1,000.4	1,042.0	1,002.5	-	855.9	876.2	906.7	869.8	
Misc. amusement and recreation services	799	633.9	660.3	687.0	644.0	-	552.8	577.1	598.1	557.8	
Health services	80	7,738.7	7,781.5	8,285.5	8,334.3	8,382.1	6,875.5	6,916.7	7,365.4	7,410.7	
Offices and clinics of medical doctors	801	1,327.5	1,339.2	1,448.9	1,455.3	-	1,094.0	1,105.1	1,195.2	1,200.4	
Offices and clinics of dentists	802	510.5	511.2	527.0	530.0	-	447.0	447.2	461.9	465.4	
Nursing and personal care facilities	805	1,398.5	1,404.9	1,488.5	1,501.1	-	1,263.2	1,269.2	1,343.8	1,355.8	
Skilled nursing care facilities	8051	965.2	970.1	1,026.1	1,034.1	-	-	-	-	-	
Nursing and personal care, nec	8059	234.8	235.5	249.7	252.4	-	-	-	-	-	
Hospitals	806	3,542.7	3,556.2	3,743.2	3,761.8	-	3,238.7	3,252.7	3,429.5	3,447.0	
General medical and surgical hospitals	8062	3,275.3	3,288.4	3,463.2	3,480.2	-	-	-	-	-	
Psychiatric hospitals	8063	99.1	99.4	100.7	101.2	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	168.3	168.4	179.3	180.4	-	-	-	-	-	
Medical and dental laboratories	807	169.1	171.6	184.4	186.0	-	-	-	-	-	
Home health care services	808	264.3	269.6	316.6	315.1	-	244.0	249.2	292.9	291.0	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Services—Continued											
Legal services	81	906.1	910.5	934.7	939.1	-	747.5	751.2	768.6	771.8	-
Educational services	82	1,822.6	1,787.8	1,823.5	1,846.8	-	-	-	-	-	-
Elementary and secondary schools	821	464.3	462.3	466.7	469.9	-	-	-	-	-	-
Colleges and universities	822	1,147.4	1,116.6	1,143.2	1,164.4	-	-	-	-	-	-
Vocational schools	824	98.3	98.6	93.4	93.1	-	-	-	-	-	-
Social services	83	1,769.8	1,778.6	1,883.2	1,901.1	-	-	-	-	-	-
Individual and family services	832	442.1	444.0	457.9	460.2	-	-	-	-	-	-
Job training and related services	833	238.3	240.8	239.2	239.9	-	-	-	-	-	-
Residential care	836	441.8	445.4	489.6	495.5	-	-	-	-	-	-
Museums and botanical and zoological gardens	84	59.7	59.0	64.3	61.7	-	-	-	-	-	-
Membership organizations	86	1,811.8	1,815.4	1,834.8	1,833.3	-	-	-	-	-	-
Business associations	861	101.0	101.3	101.6	100.8	-	-	-	-	-	-
Labor organizations	863	133.7	136.2	139.4	134.9	-	-	-	-	-	-
Civic and social associations	864	408.4	408.8	413.8	416.6	-	-	-	-	-	-
Engineering and management services	87	2,397.6	2,403.4	2,431.1	2,431.0	-	1,837.3	1,843.5	1,848.5	1,849.8	-
Engineering and architectural services	871	782.3	783.7	792.4	788.3	-	642.4	644.1	649.4	645.3	-
Accounting, auditing, and bookkeeping	872	524.8	527.0	529.1	528.8	-	394.6	398.8	391.5	392.3	-
Research and testing services	873	532.5	534.3	543.6	547.3	-	392.8	393.2	394.6	399.1	-
Commercial physical research	8731	222.4	223.1	227.7	227.0	-	-	-	-	-	-
Noncommercial research organizations	8733	143.5	144.5	146.8	147.8	-	-	-	-	-	-
Management and public relations	874	558.0	558.4	566.0	566.6	-	407.5	407.4	413.0	413.1	-
Services, nec	89	40.5	39.9	38.5	38.8	-	32.5	31.1	30.3	30.5	-
Government		18,275	18,225	18,555	18,728	18,651	-	-	-	-	-
Federal Government ⁴		2,970	2,974	2,965	2,954	2,944	-	-	-	-	-
Executive, by agency ⁴		2,911.0	2,915.4	2,904.7	-	-	-	-	-	-	-
Department of Defense		977.9	976.4	930.5	-	-	-	-	-	-	-
Postal Service ⁵		821.2	831.4	812.7	-	-	-	-	-	-	-
Other executive agencies		1,111.9	1,107.6	1,161.5	-	-	-	-	-	-	-
Legislative		37.5	37.3	37.2	-	-	-	-	-	-	-
Judicial		21.6	21.7	23.4	-	-	-	-	-	-	-
Federal Government, by industry											
Manufacturing activities		112.6	112.5	105.5	105.0	-	-	-	-	-	-
Ship building and repairing	3731	69.8	69.7	65.0	64.6	-	-	-	-	-	-
Transportation and public utilities, except Postal											
Service		37.6	37.4	39.5	38.9	-	-	-	-	-	-
Services		393.5	392.4	391.3	389.7	-	-	-	-	-	-
Hospitals	806	227.2	227.0	228.1	228.2	-	-	-	-	-	-
State government		4,332	4,286	4,422	4,447	4,411	-	-	-	-	-
Hospitals	806	452.7	451.7	454.8	457.5	-	-	-	-	-	-
Education	82	1,812.2	1,765.3	1,825.5	1,854.1	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		1,552.8	1,554.3	1,615.9	1,609.1	-	-	-	-	-	-
Local government		10,973	10,965	11,168	11,327	11,296	-	-	-	-	-
Transportation and public utilities		487.7	487.7	490.9	491.1	-	-	-	-	-	-
Hospitals	806	651.5	654.7	682.4	685.9	-	-	-	-	-	-
Education	82	6,247.3	6,242.3	6,338.9	6,461.2	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		3,258.7	3,254.6	3,341.7	3,379.3	-	-	-	-	-	-

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

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

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

⁴ Prepared by the Office of Personnel Management. Data relate to civilian employment only and exclude the Central Intelligence Agency and

the National Security Agency.

⁵ Includes rural mail carriers.

- Data not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990	Oct. 1990
Total	51,186	51,666	51,746	52,543	52,961
Total private	42,015	42,114	42,881	42,940	42,985
Goods-producing	7,112	7,093	7,006	6,998	6,954
Mining	96	95	101	99	98
Construction	561	564	576	574	571
Manufacturing	6,455	6,434	6,329	6,325	6,285
Durable goods	3,054	3,050	2,976	2,970	2,962
Lumber and wood products	122	121	121	120	118
Furniture and fixtures	163	163	159	159	159
Stone, clay, and glass products	111	111	109	109	108
Primary metal industries	105	104	103	103	102
Fabricated metal products	323	322	314	314	314
Industrial machinery and equipment	465	464	455	451	452
Electronic and other electrical equipment	752	750	719	717	715
Transportation equipment	408	407	404	406	402
Instruments and related products	422	422	411	409	409
Miscellaneous manufacturing	185	187	181	183	183
Nondurable goods	3,401	3,384	3,353	3,355	3,323
Food and kindred products	586	565	575	580	561
Tobacco products	17	17	16	17	17
Textile mill products	352	353	344	342	336
Apparel and other textile products	852	853	809	814	810
Paper and allied products	172	173	176	174	173
Printing and publishing	684	687	695	693	695
Chemicals and allied products	321	320	332	331	329
Petroleum and coal products	26	26	27	27	27
Rubber and misc. plastics products	310	311	306	305	305
Leather and leather products	80	80	74	74	73
Service-producing	44,074	44,573	44,740	45,545	46,007
Transportation and public utilities	1,638	1,646	1,699	1,738	1,745
Wholesale trade	1,934	1,945	1,955	1,959	1,965
Retail trade	10,492	10,504	10,540	10,524	10,510
Finance, insurance, and real estate	4,239	4,232	4,362	4,322	4,312
Services	16,600	16,694	17,319	17,399	17,499
Government	9,171	9,552	8,865	9,603	9,976
Federal	1,124	1,139	1,281	1,245	1,233
State	2,048	2,128	2,005	2,109	2,201
Local	5,999	6,285	5,579	6,249	6,542

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Total	109,383	109,654	109,958	110,122	110,177	110,617	110,829	110,740	110,613	110,612	110,432	110,173	110,097
Total private	91,456	91,656	91,917	91,963	91,922	92,120	92,282	92,300	92,320	92,306	92,112	91,834	91,758
Goods-producing	25,218	25,188	25,339	25,259	25,180	25,191	25,162	25,105	25,013	24,931	24,777	24,506	24,451
Mining	718	723	727	729	734	738	744	745	735	736	733	736	742
Oil and gas extraction	396	398	402	403	405	408	413	413	410	410	411	411	415
Construction	5,216	5,294	5,368	5,313	5,256	5,286	5,270	5,229	5,194	5,176	5,093	5,023	4,995
General building contractors	1,335	1,361	1,388	1,351	1,338	1,334	1,334	1,319	1,307	1,306	1,278	1,251	1,243
Manufacturing	19,284	19,171	19,244	19,217	19,190	19,167	19,148	19,131	19,084	19,019	18,951	18,747	18,714
Durable goods	11,296	11,192	11,278	11,261	11,229	11,217	11,201	11,179	11,129	11,068	11,026	10,867	10,849
Lumber and wood products	753	753	751	751	750	748	743	742	739	737	730	716	713
Furniture and fixtures	519	519	518	518	516	516	515	511	513	510	507	497	496
Stone, clay, and glass products	586	567	568	565	560	559	556	552	551	547	546	541	536
Primary metal industries	759	754	756	754	755	755	756	759	755	751	751	745	741
Blast furnaces and basic steel products	273	272	272	270	271	271	270	271	271	270	271	271	271
Fabricated metal products	1,426	1,412	1,418	1,418	1,419	1,417	1,415	1,419	1,419	1,410	1,405	1,387	1,382
Industrial machinery and equipment	2,130	2,132	2,126	2,119	2,112	2,112	2,108	2,104	2,096	2,082	2,081	2,068	2,057
Electronic and other electrical equipment	1,722	1,722	1,720	1,718	1,713	1,711	1,703	1,695	1,685	1,674	1,665	1,652	1,648
Transportation equipment	2,024	1,933	2,023	2,022	2,014	2,010	2,021	2,015	1,997	1,981	1,969	1,896	1,911
Motor vehicles and equipment	828	736	828	825	820	817	826	824	814	806	803	747	769
Instruments and related products	1,011	1,011	1,009	1,008	1,005	1,002	1,000	996	990	991	988	984	982
Miscellaneous manufacturing	386	389	389	388	385	387	384	386	384	385	384	381	383
Nondurable goods	7,988	7,979	7,966	7,956	7,961	7,950	7,947	7,952	7,955	7,951	7,925	7,880	7,865
Food and kindred products	1,650	1,651	1,650	1,648	1,651	1,650	1,643	1,645	1,650	1,652	1,654	1,649	1,655
Tobacco products	47	47	47	46	46	46	47	46	48	47	46	46	45
Textile mill products	716	715	711	709	708	703	702	702	701	697	688	687	682
Apparel and other textile products	1,061	1,053	1,045	1,037	1,036	1,031	1,029	1,027	1,026	1,027	1,021	1,008	1,005
Paper and allied products	698	697	699	698	699	698	699	701	702	700	698	695	695
Printing and publishing	1,573	1,576	1,576	1,578	1,579	1,581	1,582	1,583	1,582	1,581	1,579	1,572	1,570
Chemicals and allied products	1,081	1,081	1,083	1,083	1,084	1,085	1,086	1,086	1,086	1,088	1,087	1,086	1,087
Petroleum and coal products	157	158	159	159	159	159	160	160	161	161	161	161	160
Rubber and misc. plastics products	873	869	865	867	869	868	871	874	874	873	869	855	846
Leather and leather products	132	132	131	131	130	129	128	126	125	125	122	121	120
Service-producing	84,165	84,466	84,619	84,863	84,997	85,426	85,667	85,835	85,600	85,681	85,655	85,667	85,646
Transportation and public utilities	5,776	5,790	5,804	5,808	5,809	5,833	5,846	5,841	5,846	5,870	5,870	5,865	5,876
Transportation	3,548	3,568	3,583	3,589	3,588	3,613	3,627	3,625	3,631	3,652	3,652	3,652	3,661
Communications and public utilities	2,228	2,222	2,221	2,219	2,221	2,220	2,219	2,216	2,215	2,218	2,218	2,213	2,215
Wholesale trade	6,344	6,356	6,357	6,361	6,363	6,369	6,383	6,374	6,376	6,370	6,355	6,342	6,328
Durable goods	3,767	3,773	3,775	3,775	3,771	3,770	3,779	3,775	3,770	3,763	3,752	3,742	3,731
Nondurable goods	2,577	2,583	2,582	2,586	2,592	2,599	2,604	2,599	2,606	2,607	2,603	2,600	2,597
Retail trade	19,710	19,807	19,758	19,764	19,778	19,795	19,822	19,851	19,846	19,844	19,792	19,742	19,694
General merchandise stores	2,519	2,529	2,505	2,495	2,493	2,487	2,496	2,494	2,493	2,486	2,466	2,431	2,408
Food stores	3,247	3,263	3,268	3,272	3,287	3,295	3,302	3,304	3,301	3,304	3,307	3,317	3,315
Automotive dealers and service stations	2,113	2,117	2,118	2,120	2,118	2,121	2,120	2,131	2,135	2,140	2,130	2,126	2,119
Eating and drinking places	6,523	6,538	6,556	6,563	6,573	6,583	6,598	6,619	6,613	6,623	6,633	6,639	6,645
Finance, insurance, and real estate	6,785	6,794	6,817	6,821	6,823	6,838	6,844	6,842	6,852	6,851	6,843	6,834	6,831
Finance	3,329	3,327	3,340	3,333	3,336	3,338	3,344	3,341	3,349	3,349	3,346	3,341	3,338
Insurance	2,119	2,124	2,128	2,135	2,135	2,139	2,143	2,147	2,151	2,152	2,152	2,152	2,151
Real estate	1,337	1,343	1,349	1,353	1,352	1,361	1,357	1,354	1,352	1,350	1,345	1,341	1,342
Services	27,623	27,721	27,642	27,950	27,969	28,094	28,225	28,287	28,387	28,440	28,475	28,545	28,576
Business services	4,986	4,993	5,010	5,021	5,028	5,048	5,060	5,051	5,052	5,071	5,062	5,046	5,029
Health services	7,789	7,837	7,889	7,936	7,984	8,040	8,096	8,132	8,191	8,237	8,294	8,334	8,390
Government	17,927	17,998	18,041	18,159	18,255	18,497	18,547	18,440	18,293	18,306	18,320	18,339	18,341
Federal	2,977	3,000	3,005	3,089	3,151	3,346	3,338	3,164	3,045	2,999	2,983	2,966	2,948
State	4,206	4,225	4,239	4,249	4,252	4,262	4,296	4,298	4,305	4,309	4,323	4,322	4,329
Local	10,744	10,773	10,797	10,821	10,852	10,889	10,913	10,978	10,943	10,998	11,014	11,051	11,064

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark

levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total	51,323	51,481	51,607	51,711	51,844	51,968	52,082	52,295	52,507	52,597	52,620	52,642	52,610
Total private	41,963	42,099	42,196	42,249	42,347	42,405	42,459	42,538	42,697	42,750	42,812	42,852	42,833
Goods-producing	7,040	7,027	7,025	7,001	7,003	6,988	6,983	6,974	6,969	6,964	6,952	6,936	6,896
Mining	95	95	95	96	97	98	98	98	99	99	100	99	98
Construction	557	557	558	562	564	563	563	566	565	564	563	566	564
Manufacturing	6,388	6,375	6,372	6,343	6,342	6,327	6,322	6,310	6,305	6,301	6,289	6,271	6,234
Durable goods	3,037	3,028	3,028	3,009	3,017	3,013	3,006	3,001	2,999	2,995	2,977	2,962	2,947
Lumber and wood products	121	120	120	120	120	120	120	120	120	121	119	118	117
Furniture and fixtures	162	162	162	161	161	161	160	160	161	159	161	159	158
Stone, clay, and glass products	110	110	110	110	110	110	109	109	108	107	108	109	108
Primary metal industries	104	103	103	102	102	103	103	103	103	104	102	102	102
Fabricated metal products	320	318	317	314	315	315	315	314	314	315	315	313	312
Industrial machinery and equipment	465	465	466	466	466	463	462	460	459	459	457	453	453
Electronic and other electrical equipment	746	743	740	738	736	735	733	732	729	726	719	714	711
Transportation equipment	407	408	411	398	408	408	408	408	411	411	408	406	402
Instruments and related products	421	420	418	418	417	417	416	415	415	413	410	409	407
Miscellaneous manufacturing	181	179	181	182	182	181	180	180	179	180	178	179	177
Nondurable goods	3,351	3,347	3,344	3,334	3,325	3,314	3,316	3,309	3,306	3,306	3,312	3,309	3,287
Food and kindred products	541	540	539	539	537	537	538	537	532	534	536	538	536
Tobacco products	16	16	16	16	16	16	15	15	16	16	16	16	15
Textile mill products	351	350	348	347	346	344	343	341	341	341	343	340	334
Apparel and other textile products	847	844	843	836	827	818	818	814	813	808	811	812	804
Paper and allied products	172	172	172	172	173	173	173	173	173	174	174	173	172
Printing and publishing	690	692	693	694	694	695	696	696	697	698	697	697	697
Chemicals and allied products	320	321	323	324	326	326	327	327	327	329	328	329	329
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	309	308	306	303	303	303	304	305	306	307	308	306	303
Leather and leather products	79	78	78	77	77	76	76	75	75	73	73	72	71
Service-producing	44,283	44,454	44,582	44,710	44,841	44,980	45,099	45,321	45,538	45,633	45,668	45,706	45,714
Transportation and public utilities	1,635	1,642	1,677	1,680	1,687	1,690	1,692	1,702	1,713	1,711	1,721	1,731	1,733
Wholesale trade	1,933	1,943	1,946	1,949	1,947	1,950	1,949	1,950	1,957	1,956	1,955	1,957	1,953
Retail trade	10,469	10,489	10,474	10,497	10,484	10,474	10,483	10,482	10,504	10,518	10,498	10,503	10,479
Finance, insurance, and real estate	4,246	4,257	4,267	4,278	4,287	4,295	4,303	4,309	4,314	4,322	4,332	4,326	4,325
Services	16,640	16,741	16,807	16,844	16,939	17,008	17,049	17,121	17,240	17,279	17,354	17,399	17,447
Government	9,360	9,382	9,411	9,462	9,497	9,563	9,623	9,757	9,810	9,847	9,808	9,790	9,777
Federal	1,139	1,150	1,161	1,181	1,189	1,234	1,269	1,366	1,362	1,335	1,272	1,249	1,233
State	2,077	2,082	2,075	2,088	2,097	2,104	2,107	2,115	2,134	2,133	2,138	2,145	2,149
Local	6,144	6,150	6,175	6,193	6,211	6,225	6,247	6,276	6,314	6,379	6,398	6,396	6,395

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

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial

Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-6. Production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1989	1990											C
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	
Total private	74,115	74,300	74,512	74,545	74,496	74,651	74,827	74,799	74,779	74,753	74,606	74,336	7
Goods-producing	17,696	17,662	17,810	17,742	17,667	17,673	17,651	17,613	17,527	17,435	17,314	17,078	1
Mining	514	518	521	523	527	530	537	537	528	528	531	529	
Construction	4,058	4,135	4,205	4,158	4,094	4,120	4,107	4,066	4,031	4,008	3,934	3,870	
Manufacturing	13,124	13,009	13,084	13,061	13,046	13,023	13,007	13,010	12,968	12,899	12,849	12,679	1
Durable goods	7,506	7,400	7,488	7,479	7,461	7,450	7,439	7,438	7,395	7,337	7,308	7,177	
Lumber and wood products	621	622	620	620	619	617	612	610	607	606	599	588	
Furniture and fixtures	412	412	411	411	409	408	408	404	406	403	400	390	
Stone, clay, and glass products	442	443	444	440	436	434	432	429	428	426	425	421	
Primary metal industries	576	572	575	573	574	574	574	577	572	570	570	564	
Blast furnaces and basic steel products	210	209	208	207	208	208	207	208	207	207	208	208	
Fabricated metal products	1,052	1,039	1,044	1,044	1,047	1,045	1,043	1,047	1,046	1,039	1,034	1,021	
Industrial machinery and equipment	1,282	1,284	1,280	1,276	1,274	1,274	1,270	1,271	1,263	1,247	1,247	1,240	
Electronic and other electrical equipment	1,090	1,086	1,083	1,084	1,082	1,080	1,078	1,073	1,065	1,056	1,052	1,040	
Transportation equipment	1,250	1,154	1,244	1,246	1,239	1,238	1,250	1,253	1,239	1,224	1,220	1,156	
Motor vehicles and equipment	635	543	634	632	628	626	634	633	622	615	614	564	
Instruments and related products	499	503	503	503	502	499	495	493	490	487	484	482	
Miscellaneous manufacturing	282	285	284	282	279	281	277	281	279	279	277	275	
Nondurable goods	5,618	5,609	5,596	5,582	5,585	5,573	5,568	5,572	5,573	5,562	5,541	5,502	
Food and kindred products	1,182	1,185	1,183	1,183	1,188	1,187	1,179	1,182	1,187	1,189	1,190	1,188	
Tobacco products	35	35	35	35	33	34	34	34	35	35	34	33	
Textile mill products	617	615	612	609	609	604	603	602	602	598	589	588	
Apparel and other textile products	894	886	879	870	869	865	863	860	860	859	854	843	
Paper and allied products	523	524	525	524	525	523	525	526	527	526	525	521	
Printing and publishing	873	875	876	876	875	876	877	880	879	875	874	869	
Chemicals and allied products	605	604	603	601	601	601	600	602	597	597	597	596	
Petroleum and coal products	103	103	104	105	104	104	105	105	105	105	105	106	
Rubber and misc. plastics products	677	673	670	670	673	672	676	677	678	676	673	660	
Leather and leather products	109	109	109	109	108	107	106	104	103	102	100	98	
Service-producing	56,419	56,638	56,702	56,803	56,829	56,978	57,176	57,186	57,252	57,318	57,292	57,258	5
Transportation and public utilities	4,801	4,821	4,826	4,833	4,831	4,848	4,866	4,852	4,843	4,868	4,870	4,867	4
Wholesale trade	5,099	5,116	5,111	5,111	5,109	5,106	5,130	5,118	5,117	5,109	5,095	5,081	4
Retail trade	17,465	17,550	17,497	17,506	17,517	17,533	17,563	17,588	17,573	17,570	17,525	17,464	1
Finance, insurance, and real estate	4,923	4,938	4,958	4,960	4,961	4,970	4,970	4,965	4,973	4,964	4,957	4,948	4
Services	24,131	24,213	24,310	24,393	24,411	24,521	24,647	24,663	24,746	24,807	24,845	24,898	2

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

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March benchmark levels. When more recent benchmark data are introduced, seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries¹												
Over 1-month span:												
1989	64.5	58.7	58.0	57.0	55.6	57.3	55.8	57.7	50.0	55.2	59.6	56.6
1990	55.6	58.6	53.7	49.9	55.8	49.9	50.8	48.2	45.8	42.3	^P 39.3	^P 42.6
Over 3-month span:												
1989	65.3	64.2	60.0	60.1	59.7	58.3	59.7	54.5	55.2	55.8	57.7	60.3
1990	58.4	56.7	54.8	53.1	53.7	55.3	50.1	45.2	40.9	^P 36.7	^P 36.1	
Over 6-month span:												
1989	67.6	65.4	65.0	61.0	61.2	58.7	57.0	58.1	56.2	58.3	57.4	58.4
1990	57.3	56.5	55.5	55.9	51.4	48.3	45.4	^P 39.5	^P 37.5			
Over 12-month span:												
1989	67.1	67.7	65.3	64.6	64.9	61.2	60.0	59.8	58.6	57.3	56.7	56.0
1990	54.8	54.1	54.1	50.0	^P 47.3	^P 44.1						
Manufacturing payrolls, 139 industries¹												
Over 1-month span:												
1989	60.4	48.6	50.4	47.1	45.3	45.7	45.0	45.7	34.2	48.6	43.5	48.2
1990	42.4	45.7	45.3	46.8	45.7	40.3	48.2	40.6	38.1	36.3	^P 24.1	^P 38.8
Over 3-month span:												
1989	54.0	54.7	45.3	43.9	43.2	42.8	41.7	33.1	36.3	34.9	41.7	39.2
1990	40.3	37.1	44.2	41.4	40.6	44.2	39.9	33.8	29.1	^P 20.5	^P 21.9	
Over 6-month span:												
1989	56.5	49.6	49.3	43.5	42.1	37.1	36.7	34.9	34.2	35.3	33.1	36.0
1990	37.1	35.6	36.3	43.2	38.1	31.7	28.4	^P 19.1	^P 22.3			
Over 12-month span:												
1989	53.6	55.0	49.3	45.3	43.9	39.9	37.1	35.6	33.8	32.4	30.9	31.7
1990	31.3	31.3	30.6	27.0	^P 21.6	^P 19.4						

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

^P = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent indicates an equal balance between industries with increasing and decreasing

employment. Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1989) and all seasonally adjusted data (beginning January 1986) are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Alabama	1,598.5	1,607.4	1,612.9	11.8	11.9	12.1	78.3	78.0	78.3
Birmingham	411.7	418.1	419.2	5.5	5.6	5.6	23.0	22.8	22.7
Huntsville	132.6	134.7	134.6	(¹)	(¹)	(¹)	5.0	5.2	5.2
Mobile	169.9	174.5	175.0	(¹)	(¹)	(¹)	10.6	10.5	10.6
Montgomery	133.2	133.9	134.8	(¹)	(¹)	(¹)	7.0	6.9	7.0
Tuscaloosa	64.1	65.4	65.9	2.6	2.4	2.6	3.8	4.3	4.3
Alaska	230.9	245.2	235.2	10.6	11.4	11.2	11.8	13.4	12.1
Arizona	1,483.5	1,509.8	1,527.1	12.2	12.7	12.7	87.4	85.1	84.9
Phoenix	977.8	994.6	1,008.4	1.0	.8	.9	58.3	56.7	56.7
Tucson	253.1	255.4	258.2	2.1	2.3	2.3	15.1	14.7	14.6
Arkansas	907.5	932.6	929.8	4.3	4.1	4.1	34.1	34.6	33.5
Fayetteville-Springdale	54.7	55.8	55.9	(¹)	(¹)	(¹)	1.6	1.6	1.6
Fort Smith	78.7	79.9	78.0	.9	.9	.9	2.7	2.7	2.6
Little Rock-North Little Rock	248.2	251.7	251.9	.4	.4	.4	9.9	10.6	10.2
Pine Bluff	33.9	33.4	33.3	(¹)	(¹)	(¹)	1.5	1.2	1.1
California	12,662.5	12,820.1	12,863.8	41.6	41.5	41.5	671.1	660.8	651.2
Anaheim-Santa Ana	1,207.5	1,215.6	1,218.8	1.4	1.3	1.3	75.6	68.6	66.3
Bakersfield	168.4	169.6	169.7	13.5	14.3	14.5	11.0	10.9	11.0
Fresno	222.1	241.3	239.0	.7	.7	.7	13.8	15.1	15.4
Los Angeles-Long Beach	4,260.0	4,282.4	4,310.4	9.4	9.9	9.9	158.9	155.6	154.5
Modesto	116.8	125.0	122.1	.1	.1	.1	8.2	8.6	8.1
Oakland	902.0	925.0	929.0	4.1	4.0	3.9	55.6	56.8	56.5
Oxnard-Ventura	228.4	233.5	233.1	2.4	2.4	2.4	17.7	18.3	17.6
Riverside-San Bernardino	704.2	718.9	729.7	1.4	1.4	1.4	69.3	71.4	69.7
Sacramento	609.6	626.0	627.4	.8	.9	.9	38.6	39.0	38.2
San Diego	979.0	999.4	999.5	.8	.8	.8	65.0	63.6	63.0
San Francisco	970.4	973.6	977.8	.6	.6	.6	36.2	36.2	36.2
San Jose	832.5	830.1	830.2	.2	.2	.2	34.6	34.5	34.0
Santa Barbara-Santa Maria-Lompoc	151.5	150.2	152.3	1.4	1.4	1.4	7.1	7.1	7.1
Santa Rosa-Petaluma	140.0	146.9	146.1	.7	.7	.7	12.3	11.6	11.4
Stockton	154.2	159.4	157.0	.1	.1	.1	9.4	9.5	9.5
Vallejo-Fairfield-Napa	136.0	140.5	140.0	.7	.8	.7	10.5	11.4	11.2
Colorado	1,482.1	1,508.4	1,513.1	20.0	19.5	19.5	62.8	62.4	62.7
Boulder-Longmont	115.9	116.2	117.2	(¹)	(¹)	(¹)	4.2	4.2	4.3
Denver	825.6	841.5	843.5	11.7	11.3	11.2	32.9	36.4	36.3
Connecticut	1,692.1	1,669.8	1,676.4	1.4	1.3	1.3	79.9	73.0	71.1
Bridgeport-Milford	200.0	195.1	195.3	(²)	(²)	(²)	9.0	8.4	8.2
Hartford	490.7	487.4	488.3	(¹)	(¹)	(¹)	21.9	20.5	19.7
New Britain	67.6	66.4	66.7	(²)	(²)	(²)	6.1	4.5	4.4
New Haven-Meriden	260.7	250.2	252.8	(¹)	(¹)	(¹)	12.8	10.6	10.0
Stamford	125.9	123.3	123.2	(¹)	(¹)	(¹)	5.3	5.1	4.9
Waterbury	89.1	85.5	84.8	(²)	(²)	(²)	4.5	4.3	4.3
Delaware	344.6	346.9	347.3	.2	.1	.1	20.2	19.6	19.4
Wilmington	296.0	296.2	301.0	.2	.2	.2	18.5	18.4	18.1
District of Columbia	686.0	682.6	681.4	.1	.1	.1	14.4	14.2	14.2
Washington MSA	2,251.4	2,245.3	2,248.1	1.1	1.1	1.1	151.7	139.8	137.0
Florida	5,327.4	5,467.5	5,484.7	9.4	9.2	9.1	343.8	325.4	319.8
Daytona Beach	121.1	122.8	122.7	(²)	(²)	(²)	8.0	7.6	7.6
Fort Lauderdale-Hollywood-Pompano Beach	506.1	514.2	517.6	.3	.3	.2	35.0	35.3	35.1
Fort Myers-Cape Coral	125.5	130.5	132.0	(²)	(²)	(²)	13.3	12.2	12.3
Gainesville	101.4	101.6	102.7	(²)	(²)	(²)	4.4	4.1	4.1
Jacksonville	420.4	427.7	430.8	.7	.7	.7	27.4	26.6	26.2
Lakeland-Winter Haven	155.4	158.3	157.6	4.0	3.7	3.7	8.9	8.6	8.6
Melbourne-Titusville-Palm Bay	161.5	164.4	164.6	(²)	(²)	(²)	9.5	8.9	8.8
Miami-Hialeah	881.4	900.1	904.0	.9	.9	.9	40.6	40.6	40.4
Orlando	544.1	559.0	559.3	(²)	(²)	(²)	37.5	37.2	37.2
Pensacola	128.8	129.0	126.6	.4	.4	.4	8.4	8.0	8.0
Sarasota	113.7	114.9	116.6	(²)	(²)	(²)	10.4	9.9	9.8
Tallahassee	123.8	125.6	126.4	(²)	(²)	(²)	6.0	5.9	5.9
Tampa-St. Petersburg-Clearwater	869.7	879.9	882.0	.6	.7	.7	54.1	54.8	54.6
West Palm Beach-Boca Raton-Delray Beach	359.2	362.6	368.6	(²)	(²)	(²)	28.8	27.9	27.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Alabama	384.8	382.2	380.7	79.6	80.2	80.3	351.9	351.0	352.9
Birmingham	56.2	56.8	56.6	32.1	32.1	32.0	101.8	102.6	102.6
Huntsville	33.2	33.6	33.5	2.9	2.8	2.8	25.4	25.6	25.8
Mobile	26.4	27.8	27.8	9.9	9.7	9.7	45.9	47.3	47.5
Montgomery	18.6	18.1	18.1	5.2	5.2	5.1	30.8	30.8	31.1
Tuscaloosa	10.5	10.7	10.6	2.1	2.2	2.2	13.1	13.1	13.2
Alaska	13.8	18.0	13.8	19.8	20.8	19.9	45.1	48.0	46.2
Arizona	188.4	188.2	188.9	77.7	80.8	81.0	369.5	374.8	380.2
Phoenix	140.0	139.2	139.6	54.5	57.2	57.3	248.3	252.3	257.5
Tucson	27.2	27.0	27.1	9.5	9.7	9.8	59.6	59.5	59.6
Arkansas	230.6	235.0	233.1	56.5	56.1	56.4	208.1	215.7	214.7
Fayetteville-Springdale	13.3	13.7	13.6	5.0	4.9	4.9	12.2	12.6	12.5
Fort Smith	24.5	26.1	24.3	4.3	4.3	4.3	16.9	16.4	16.5
Little Rock-North Little Rock	33.6	33.6	33.6	16.4	16.1	16.1	61.1	62.1	62.3
Pine Bluff	6.5	6.3	6.3	2.8	2.7	2.7	7.4	7.5	7.5
California	2,161.0	2,138.5	2,119.7	609.5	615.0	613.8	2,993.0	3,032.1	3,041.4
Anaheim-Santa Ana	259.8	257.1	256.6	35.2	36.0	36.2	304.5	307.8	308.4
Bakersfield	10.6	10.8	10.7	8.2	8.5	8.5	39.8	39.9	39.6
Fresno	25.7	26.1	26.8	12.6	13.0	13.0	57.1	60.4	61.1
Los Angeles-Long Beach	891.3	865.2	862.2	213.9	217.5	217.7	971.3	980.2	984.7
Modesto	25.1	30.6	27.0	4.7	5.0	5.0	30.2	30.6	30.9
Oakland	116.4	118.2	117.4	60.8	63.0	63.1	218.7	226.0	226.0
Oxnard-Ventura	31.7	30.7	30.4	11.5	11.5	11.4	56.7	56.7	58.8
Riverside-San Bernardino	89.6	90.5	90.5	34.1	34.0	34.1	170.9	174.8	177.2
Sacramento	44.7	47.9	45.9	27.2	27.6	27.7	144.3	146.9	147.7
San Diego	135.6	133.8	133.6	36.1	36.6	36.7	238.7	242.4	241.0
San Francisco	82.1	81.2	81.6	77.6	79.6	79.2	221.8	218.5	217.7
San Jose	269.5	267.3	264.7	22.3	22.6	22.5	170.5	169.2	169.4
Santa Barbara-Santa Maria-Lompoc	22.5	22.4	22.5	5.4	5.4	5.4	34.9	34.9	35.0
Santa Rosa-Petaluma	21.6	22.3	22.1	6.3	6.8	6.8	35.6	38.2	38.5
Stockton	24.2	27.1	23.5	8.9	8.9	8.8	36.7	36.7	37.0
Vallejo-Fairfield-Napa	12.8	14.1	13.2	4.9	5.3	5.3	33.7	35.1	35.4
Colorado	194.6	195.1	195.4	92.8	93.5	93.6	358.4	371.5	369.2
Boulder-Longmont	31.2	30.3	30.4	2.4	2.4	2.4	24.2	24.9	24.9
Denver	95.6	96.2	96.0	67.6	68.3	68.5	201.7	204.5	204.7
Connecticut	358.2	347.9	346.6	73.0	72.7	73.3	367.0	379.8	380.4
Bridgeport-Milford	52.7	50.0	49.6	8.6	6.9	9.0	45.6	44.3	44.5
Hartford	85.6	86.6	86.7	19.1	19.2	19.5	104.8	100.4	100.6
New Britain	19.3	16.7	18.6	3.2	3.8	3.8	13.9	13.8	13.9
New Haven-Meriden	45.8	44.3	44.4	16.2	16.4	16.4	60.2	56.0	56.3
Stamford	21.2	19.0	19.1	5.7	6.0	6.1	30.0	29.7	30.0
Waterbury	22.5	20.6	20.3	3.3	3.4	3.5	16.7	17.3	17.0
Delaware	71.2	71.7	71.6	14.9	15.0	15.6	74.6	75.9	74.6
Wilmington	60.7	61.2	61.3	15.8	16.5	16.7	62.3	61.8	62.7
District of Columbia	16.1	16.1	16.1	24.6	24.6	24.6	64.8	61.2	61.2
Washington MSA	69.9	87.9	67.6	110.7	112.1	112.9	438.4	440.0	440.7
Florida	542.2	532.2	529.6	270.4	279.4	279.6	1,441.7	1,467.9	1,474.6
Daytona Beach	12.2	12.4	12.5	4.1	4.1	4.1	35.6	35.7	35.7
Fort Lauderdale-Hollywood-Pompano Beach	46.8	46.1	45.9	22.9	23.5	23.5	148.4	150.9	153.1
Fort Myers-Cape Coral	6.2	6.3	6.3	5.3	5.7	5.7	37.3	39.0	39.8
Gainesville	5.7	5.4	5.4	1.9	1.9	1.8	22.2	22.2	22.2
Jacksonville	39.0	37.8	37.7	29.1	29.3	29.6	112.4	114.1	117.1
Lakeland-Winter Haven	23.5	22.7	23.0	7.0	7.2	7.2	43.2	43.8	44.3
Melbourne-Titusville-Palm Bay	29.7	30.2	30.1	4.2	4.4	4.4	38.5	38.3	38.5
Miami-Hialeah	91.0	91.2	91.7	70.0	72.8	72.6	239.6	243.4	243.5
Orlando	54.5	53.1	53.0	27.2	29.0	28.9	143.4	146.0	146.3
Pensacola	11.3	11.2	11.0	6.6	6.5	6.4	32.6	33.2	32.8
Sarasota	6.8	8.5	8.5	3.5	3.6	3.7	33.9	32.7	33.3
Tallahassee	5.0	4.7	4.7	3.1	3.1	3.1	27.2	27.9	27.7
Tampa-St. Petersburg-Clearwater	95.8	95.5	95.2	41.3	42.3	42.5	241.4	242.8	243.2
West Palm Beach-Boca Raton-DeLray Beach	34.7	34.1	34.2	13.8	14.4	14.5	96.4	95.6	96.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989 .	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Alabama	70.8	71.8	71.8	304.1	310.1	310.4	317.2	322.4	326.8
Birmingham	28.8	28.8	28.7	98.9	102.1	102.6	65.4	67.3	68.4
Huntsville	3.8	3.9	3.9	31.8	32.8	32.7	30.7	30.8	30.7
Mobile	7.6	7.5	7.4	40.8	41.9	41.9	28.7	29.8	30.1
Montgomery	7.8	7.8	7.8	30.4	31.4	31.3	33.4	33.7	34.4
Tuscaloosa	2.1	2.2	2.2	9.3	9.9	9.9	20.6	20.8	20.9
Alaska	10.5	10.8	10.7	47.8	50.6	48.9	71.5	72.2	72.4
Arizona	93.1	95.3	95.7	394.8	409.5	412.8	260.6	263.4	270.9
Phoenix	74.8	76.7	78.9	266.8	276.2	279.1	134.1	135.7	140.4
Tucson	11.3	11.5	11.6	72.4	74.6	75.6	55.9	56.1	57.2
Arkansas	38.3	38.8	38.7	177.1	187.3	186.9	158.3	161.2	162.4
Fayetteville-Springdale	1.6	1.6	1.5	9.1	9.6	9.6	11.9	11.6	12.2
Fort Smith	3.0	2.9	2.9	18.2	18.2	18.0	8.2	8.4	8.5
Little Rock-North Little Rock	15.5	15.7	15.7	62.5	64.0	64.2	48.8	49.2	49.4
Pine Bluff	1.3	1.2	1.2	6.6	6.9	6.7	7.6	7.6	7.6
California	843.0	863.3	860.8	3,304.7	3,416.3	3,429.5	2,038.6	2,052.6	2,105.9
Anaheim-Santa Ana	95.7	98.2	98.3	312.5	323.3	323.2	122.8	123.5	128.5
Bakersfield	6.5	6.8	6.8	35.5	35.8	35.6	43.3	42.8	42.6
Fresno	12.2	12.8	12.8	52.3	60.1	57.4	47.7	51.1	51.6
Los Angeles-Long Beach	294.6	301.7	301.1	1,193.7	1,226.8	1,233.0	526.9	525.5	547.3
Modesto	5.1	5.3	5.4	23.8	25.4	25.6	19.6	19.4	20.0
Oakland	57.5	58.5	58.2	221.4	231.2	232.3	167.5	167.3	171.6
Oxnard-Ventura	11.5	11.3	11.3	54.6	57.4	57.3	42.3	43.2	43.7
Riverside-San Bernardino	29.0	30.0	30.4	166.5	166.6	173.4	143.2	148.0	153.0
Sacramento	39.0	40.5	40.4	134.5	141.2	141.4	180.5	182.0	185.2
San Diego	67.1	66.0	67.6	263.4	278.9	277.8	172.3	175.3	178.8
San Francisco	109.8	110.2	110.0	305.6	311.4	313.2	136.5	135.9	139.3
San Jose	32.4	32.4	32.3	215.4	215.1	217.4	67.6	68.8	69.7
Santa Barbara-Santa Maria-Lompoc	8.7	8.7	8.7	42.3	42.5	42.6	29.2	27.8	29.4
Santa Rosa-Petaluma	7.9	8.2	8.2	31.6	35.3	35.7	24.0	23.8	24.7
Stockton	9.5	9.5	9.4	32.4	33.1	33.6	33.0	34.5	35.1
Vallejo-Fairfield-Napa	4.9	5.2	5.2	30.2	31.4	31.7	38.3	37.2	37.3
Colorado	95.4	96.5	96.3	377.4	397.6	394.8	280.5	272.3	281.6
Boulder-Longmont	4.2	4.2	4.2	26.9	28.1	28.3	22.8	22.1	22.7
Denver	63.8	64.1	64.0	220.0	229.9	229.1	132.3	130.8	133.7
Connecticut	150.8	151.3	150.4	432.3	438.1	441.3	209.5	205.5	211.8
Bridgeport-Milford	12.3	12.2	12.0	51.2	51.6	52.1	20.2	19.7	19.9
Hartford	74.3	74.9	74.8	118.0	119.2	119.6	67.0	66.6	67.2
New Britain	3.5	3.4	3.3	14.6	15.5	15.6	6.6	6.7	7.1
New Haven-Meriden	16.5	17.1	16.9	77.4	74.1	76.6	31.8	31.7	32.0
Stamford	14.3	14.1	14.0	38.4	38.6	38.2	11.0	10.8	10.9
Waterbury	4.3	4.2	4.1	22.9	23.1	22.8	12.9	12.6	12.8
Delaware	30.7	30.7	30.5	84.6	86.5	86.6	48.2	47.4	48.7
Wilmington	27.3	27.5	27.7	72.7	75.4	75.5	36.5	37.2	38.8
District of Columbia	33.3	32.7	32.6	257.9	256.7	257.2	274.8	277.0	275.4
Washington MSA	130.7	130.2	129.6	740.7	741.6	741.6	588.2	592.6	597.6
Florida	372.7	375.6	376.0	1,521.2	1,613.6	1,618.6	826.0	864.0	877.2
Daytona Beach	5.8	5.7	5.7	35.2	35.9	35.6	20.2	21.2	21.5
Fort Lauderdale-Hollywood-Pompano Beach	41.0	41.6	41.6	145.7	148.3	149.6	66.0	66.2	68.4
Fort Myers-Cape Coral	9.1	9.3	9.3	35.3	37.9	38.2	18.9	20.0	20.3
Gainesville	4.6	4.6	4.6	25.6	26.1	26.2	36.9	37.3	36.4
Jacksonville	40.1	41.2	41.3	109.4	113.8	113.8	62.3	64.2	64.4
Lakeland-Winter Haven	9.1	9.1	9.1	38.2	39.3	39.4	21.5	21.9	22.3
Melbourne-Titusville-Palm Bay	5.9	5.6	5.6	50.7	53.2	53.5	22.9	23.7	23.6
Miami-Hialeah	72.4	72.2	72.2	247.5	252.8	254.1	119.4	126.2	128.6
Orlando	33.7	33.3	33.2	184.7	195.1	195.1	62.9	65.2	65.5
Pensacola	5.4	5.3	5.3	33.6	34.2	34.2	30.5	30.2	30.5
Sarasota	6.1	6.3	6.4	35.7	36.3	39.2	13.3	13.6	13.7
Tallahassee	5.2	5.1	5.1	26.0	26.6	26.6	51.0	52.0	53.0
Tampa-St. Petersburg-Clearwater	65.4	65.6	65.1	259.1	265.8	266.8	112.0	112.4	113.9
West Palm Beach-Boca Raton-Delray Beach	29.8	29.5	29.4	110.6	113.7	117.1	45.1	47.2	47.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Georgia	2,983.4	3,006.2	3,009.1	8.7	8.7	8.5	149.1	144.9	141.6
Albany	47.9	48.1	48.8	(¹)	(¹)	(¹)	2.1	2.1	2.1
Athens	69.2	67.4	69.6	.1	.1	.1	2.8	2.8	2.6
Atlanta	1,471.4	1,490.3	1,492.8	1.2	1.2	1.1	68.6	68.2	66.6
Augusta	172.1	171.9	171.0	.5	.8	.8	15.9	15.2	14.8
Columbus	93.3	92.6	92.8	.1	.1	.1	4.8	4.2	4.3
Macon-Warner Robins	125.3	125.5	126.2	.1	.2	.2	5.1	4.8	4.7
Savannah	109.2	110.3	110.6	(¹)	(¹)	(¹)	8.0	7.4	7.6
Hawaii	510.1	510.8	519.7	(¹)	(¹)	(¹)	31.0	29.4	29.6
Honolulu	400.1	398.8	406.7	(¹)	(¹)	(¹)	24.0	22.0	22.1
Idaho	383.2	398.2	396.8	3.9	4.0	4.0	18.0	20.8	20.8
Boise City	102.5	107.3	107.5	(¹)	(¹)	(¹)	6.3	7.0	7.0
Illinois	5,230.5	5,217.2	5,244.2	19.8	20.2	19.9	228.9	218.8	218.0
Aurora-Elgin	142.7	145.8	146.7	(¹)	(¹)	(¹)	7.7	8.4	8.4
Bloomington-Normal	65.7	65.2	65.7	(¹)	(¹)	(¹)	3.3	3.3	3.3
Champaign-Urbana-Rantoul	90.0	90.2	91.0	(¹)	(¹)	(¹)	2.6	2.6	2.8
Chicago	3,189.9	3,220.0	3,222.3	2.0	2.1	1.8	137.1	137.5	133.8
Davenport-Rock Island-Moline	183.7	164.4	164.5	(¹)	(¹)	(¹)	6.0	6.4	6.3
Decatur	53.5	54.0	54.3	(¹)	(¹)	(¹)	3.6	3.4	3.5
Joliet	104.0	104.6	104.9	(¹)	(¹)	(¹)	9.1	8.8	8.8
Kankakee	35.2	35.5	35.6	(¹)	(¹)	(¹)	2.1	1.9	1.8
Lake County	212.0	216.3	214.8	(¹)	(¹)	(¹)	14.2	11.8	11.8
Peoria	145.9	145.9	146.0	(¹)	(¹)	(¹)	6.9	7.1	7.1
Rockford	136.0	136.8	137.2	(¹)	(¹)	(¹)	6.2	6.5	6.4
Springfield	103.9	104.1	104.4	(¹)	(¹)	(¹)	3.7	3.9	3.8
Indiana	2,504.8	2,549.6	2,550.6	8.2	8.1	8.1	125.3	136.1	135.9
Anderson	50.8	50.5	51.0	(¹)	(¹)	(¹)	1.6	1.9	1.9
Bloomington	57.5	57.9	58.5	(¹)	(¹)	(¹)	2.2	2.6	2.3
Elkhart-Goshen	106.0	107.2	106.5	(¹)	(¹)	(¹)	3.5	4.0	3.8
Evansville	134.7	139.0	139.1	2.2	2.1	1.9	8.2	9.8	9.5
Fort Wayne	203.2	208.9	209.4	(¹)	(¹)	(¹)	10.1	11.6	11.5
Gary-Hammond	243.5	246.1	246.2	(¹)	(¹)	(¹)	19.1	19.6	19.3
Indianapolis	665.8	673.3	672.5	.8	.8	.8	38.8	39.2	39.2
Kokomo	46.9	47.8	47.8	(¹)	(¹)	(¹)	1.1	1.7	1.6
Lafayette-West Lafayette	72.0	74.5	75.0	(¹)	(¹)	(¹)	2.9	3.0	3.0
Muncie	52.2	55.3	56.2	(¹)	(¹)	(¹)	1.9	2.1	2.1
South Bend-Mishawaka	123.1	126.8	127.0	(¹)	(¹)	(¹)	7.2	8.4	8.4
Terre Haute	57.7	58.1	58.2	.4	.4	.4	2.9	4.1	4.2
Iowa	1,224.9	1,235.2	1,243.4	2.0	2.2	2.1	45.8	52.0	51.0
Cedar Rapids	95.8	94.9	95.5	(¹)	(¹)	(¹)	4.2	4.3	4.3
Des Moines	229.7	229.9	231.3	(¹)	(¹)	(¹)	9.3	9.4	9.2
Dubuque	45.1	45.1	46.0	(¹)	(¹)	(¹)	1.6	2.0	2.0
Iowa City	55.8	56.5	57.5	(¹)	(¹)	(¹)	1.8	2.2	2.1
Sioux City	54.8	54.5	55.0	(¹)	(¹)	(¹)	2.3	2.4	2.3
Waterloo-Cedar Falls	69.2	71.3	72.0	(¹)	(¹)	(¹)	2.5	2.5	2.5
Kansas	1,084.1	1,098.5	1,102.8	9.3	9.8	10.2	43.5	45.2	45.2
Lawrence	37.1	37.5	37.5	(¹)	(¹)	(¹)	1.7	1.7	1.7
Topeka	90.6	89.8	89.6	(¹)	(¹)	(¹)	4.1	4.0	3.9
Wichita	239.8	240.2	241.8	1.9	2.0	2.1	9.1	9.6	10.0
Kentucky	1,481.2	1,481.5	1,485.6	33.9	34.0	33.9	71.6	71.5	71.4
Lexington-Fayette	203.4	205.7	208.9	.3	.2	.2	11.6	12.5	12.2
Louisville	477.5	485.7	489.2	.6	.5	.5	23.8	24.1	24.2
Owensboro	36.8	37.2	37.6	.5	.5	.5	2.2	2.1	2.1
Louisiana	1,524.6	1,539.3	1,546.1	54.9	55.0	55.5	83.0	84.2	84.7
Alexandria	46.4	45.6	45.5	.2	.1	.1	3.0	2.6	2.6
Baton Rouge	230.9	232.4	232.5	.8	.8	.8	26.3	26.5	26.7
Houma-Thibodaux	55.7	56.5	57.7	5.6	5.5	5.6	1.9	1.9	1.9
Lafayette	89.0	92.8	94.1	11.8	12.1	12.2	3.3	3.7	3.8
Lake Charles	63.0	63.6	63.8	1.0	1.1	1.2	4.9	4.6	4.4
Monroe	56.0	55.9	56.7	.5	.6	.6	2.7	2.6	2.7
New Orleans	532.0	533.3	535.6	14.6	14.3	14.3	22.8	24.2	24.3
Shreveport	129.4	132.1	132.8	3.1	3.0	3.1	5.4	6.1	6.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Georgia	571.1	554.9	554.5	186.8	191.9	192.3	758.7	772.6	772.6
Albany	7.4	7.8	7.8	2.8	2.9	2.9	12.0	11.8	11.8
Athens	15.6	14.8	14.7	1.9	1.8	1.8	15.2	15.6	15.8
Atlanta	179.8	173.1	174.5	123.2	129.0	129.3	415.2	419.6	419.5
Augusta	38.3	38.1	38.2	4.5	4.6	4.6	37.1	36.8	36.8
Columbus	18.6	18.9	18.8	3.0	3.0	3.0	21.5	21.2	20.9
Macon-Warner Robins	18.9	19.0	19.0	5.1	5.3	5.3	28.5	28.5	28.8
Savannah	17.3	17.7	17.8	9.8	9.6	9.5	26.6	26.5	28.7
Hawaii	20.9	20.5	20.6	40.9	41.9	42.1	134.0	134.0	134.9
Honolulu	15.6	15.2	15.2	33.2	34.0	34.2	103.0	102.7	103.2
Idaho	63.8	65.8	65.2	19.8	20.2	20.2	97.9	101.5	100.0
Boise City	15.3	16.5	16.5	5.6	5.8	5.7	26.4	28.2	27.5
Illinois	981.8	960.8	979.3	306.8	307.1	306.9	1,282.1	1,285.1	1,289.7
Aurora-Elgin	39.6	39.1	39.2	3.3	3.5	3.5	35.1	36.8	36.7
Bloomington-Normal	7.8	7.7	7.8	2.7	2.6	2.6	14.3	14.3	14.4
Champaign-Urbana-Rantoul	8.1	8.3	8.2	2.3	2.3	2.3	19.3	18.9	19.1
Chicago	557.9	558.9	558.1	205.8	207.3	207.9	776.3	791.5	794.0
Davenport-Rock Island-Moline	33.3	33.8	33.7	7.2	7.2	7.2	47.0	47.2	47.3
Decatur	13.9	14.3	14.3	5.0	5.2	5.1	11.4	11.5	11.5
Joliet	18.6	18.8	18.8	8.9	8.6	8.6	23.5	24.1	24.2
Kankakee	5.5	5.5	5.5	2.0	2.1	2.1	9.1	9.3	9.3
Lake County	48.5	47.8	47.4	8.0	6.1	6.2	59.3	60.8	61.1
Peoria	33.7	33.4	33.4	7.0	7.0	7.0	35.5	35.2	35.3
Rockford	47.8	47.7	47.8	4.6	4.6	4.6	31.0	31.1	31.3
Springfield	3.9	3.8	3.8	4.7	4.8	4.8	23.8	23.2	23.4
Indiana	636.4	638.0	635.6	130.0	133.7	133.7	598.6	603.4	605.5
Anderson	16.9	18.3	18.1	1.4	1.3	1.3	12.1	12.0	12.1
Bloomington	9.5	9.2	9.3	1.7	1.8	1.8	12.4	11.6	11.7
Elkhart-Goshen	53.1	52.2	51.7	3.4	3.8	3.8	20.2	20.0	20.0
Evansville	30.7	31.2	31.2	6.9	7.0	7.1	35.6	35.1	35.0
Fort Wayne	52.9	53.4	53.0	13.5	13.0	12.9	49.3	48.4	48.9
Gary-Hammond	56.5	56.3	56.3	15.2	14.8	14.8	57.8	58.3	58.1
Indianapolis	109.7	107.4	107.4	41.5	42.8	42.9	173.5	175.6	175.9
Kokomo	18.9	19.1	19.0	1.5	1.6	1.6	11.0	9.9	10.0
Lafayette-West Lafayette	13.0	13.2	13.1	1.8	1.8	1.9	15.3	15.4	15.7
Muncie	9.5	11.7	11.8	3.0	3.3	3.3	13.2	13.4	13.4
South Bend-Mishawaka	23.1	22.5	22.6	5.1	5.1	5.1	32.4	32.8	32.7
Terre Haute	10.6	10.9	10.8	2.8	2.7	2.8	15.6	15.4	15.3
Iowa	236.9	235.3	234.6	56.2	55.1	54.9	309.9	318.2	317.3
Cedar Rapids	23.9	21.7	21.6	5.8	5.8	5.7	22.5	22.8	23.1
Des Moines	25.7	26.0	26.1	13.0	12.2	12.1	59.6	59.1	59.5
Dubuque	12.8	12.7	12.8	1.7	1.7	1.7	10.6	10.3	10.4
Iowa City	4.6	4.5	4.7	1.4	1.4	1.4	11.0	11.5	11.5
Sioux City	10.8	10.8	10.8	3.4	3.4	3.4	14.0	13.7	13.8
Waterloo-Cedar Falls	15.7	17.1	17.0	1.9	2.0	2.0	16.8	17.5	17.5
Kansas	184.6	186.2	185.9	66.3	67.4	67.3	269.8	273.3	274.1
Lawrence	4.7	4.7	4.7	1.0	1.1	1.1	8.3	8.3	8.3
Topeka	9.1	9.4	9.5	6.9	6.7	6.5	20.3	19.6	19.5
Wichita	84.0	84.7	84.8	11.4	11.1	11.0	53.7	54.4	55.1
Kentucky	266.4	264.5	265.6	77.6	76.4	76.9	352.4	357.1	357.6
Lexington-Fayette	33.8	33.3	33.6	9.2	9.1	9.0	45.5	44.5	45.3
Louisville	89.0	87.8	89.3	30.9	30.1	30.8	120.2	123.2	122.9
Owensboro	6.5	6.4	6.4	2.3	2.2	2.3	9.8	10.1	10.2
Louisiana	174.2	177.0	177.1	105.9	106.2	105.9	385.8	387.1	386.8
Alexandria	3.4	3.4	3.3	2.3	2.4	2.3	10.6	10.2	10.0
Baton Rouge	21.5	22.1	22.1	10.5	10.5	10.4	53.9	54.4	54.4
Houma-Thibodaux	5.1	5.4	5.5	6.3	6.6	6.6	14.6	14.4	14.4
Lafayette	8.1	8.4	8.5	8.2	6.5	6.8	24.2	24.5	25.3
Lake Charles	11.5	11.3	11.3	4.0	4.3	4.3	15.1	14.9	15.1
Monroe	7.4	7.7	7.8	3.1	2.7	2.7	14.3	14.2	14.2
New Orleans	44.2	44.8	44.9	43.3	43.5	43.4	136.4	135.5	135.3
Shreveport	15.8	17.9	17.9	8.3	8.3	8.3	32.6	32.8	32.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Georgia	163.3	164.8	163.9	622.9	641.9	638.1	522.7	526.5	537.7
Albany	2.1	2.1	2.0	8.6	8.7	8.8	13.0	12.7	13.3
Athens	2.0	2.0	2.0	11.3	11.7	11.9	20.2	18.5	20.7
Atlanta	105.9	106.6	106.3	364.1	376.5	373.3	213.4	216.2	222.3
Augusta	5.7	5.5	5.4	34.8	35.5	35.1	35.4	35.6	35.6
Columbus	6.0	5.7	5.8	18.3	18.7	19.0	21.0	20.8	21.0
Macon-Warner Robins	7.3	7.6	7.7	25.0	25.1	25.2	35.2	35.0	35.4
Savannah	4.8	5.0	5.1	26.4	27.0	26.8	16.4	17.0	17.1
Hawaii	35.4	36.3	36.2	146.9	151.3	151.4	101.0	97.4	104.9
Honolulu	28.8	29.6	29.5	111.2	115.3	115.5	64.3	60.0	67.0
Idaho	19.5	19.9	19.8	78.1	82.3	81.5	82.4	83.9	85.3
Boise City	7.8	7.8	7.7	22.2	22.6	22.7	18.9	19.3	20.5
Illinois	374.0	373.3	373.0	1,288.1	1,300.6	1,300.2	749.0	731.5	757.2
Aurora-Elgin	7.1	7.9	7.9	33.1	34.0	34.0	16.8	16.3	17.0
Bloomington-Normal	10.9	11.0	11.0	13.2	13.4	13.4	13.5	12.9	13.2
Champaign-Urbana-Rantoul	3.1	3.2	3.2	17.5	17.6	18.0	37.1	37.3	37.6
Chicago	270.4	273.2	271.1	868.0	864.0	883.9	372.4	365.5	371.7
Davenport-Rock Island-Moline	7.6	7.8	7.8	35.6	35.9	36.0	27.0	26.1	26.2
Decatur	2.3	2.3	2.3	11.5	11.5	11.6	5.8	5.8	6.0
Joliet	3.4	3.5	3.6	23.0	23.6	23.3	17.5	17.2	17.6
Kankakee	1.3	1.3	1.3	8.6	8.8	8.9	6.6	6.6	6.7
Lake County	10.0	10.2	10.0	44.5	48.5	46.7	31.5	31.3	31.6
Peoria	7.2	7.4	7.2	39.4	39.9	39.8	16.2	15.9	16.2
Rockford	5.2	5.3	5.3	29.0	29.8	29.8	12.2	11.8	12.2
Springfield	8.1	8.3	8.4	26.0	26.1	26.1	33.7	34.0	34.1
Indiana	122.8	125.0	124.6	513.7	536.1	533.0	369.9	369.2	374.3
Anderson	1.5	1.4	1.4	10.9	11.5	11.7	6.3	6.0	6.5
Bloomington	2.2	1.9	1.9	10.4	11.8	12.0	19.1	18.9	19.4
Elkhart-Goshen	3.1	3.1	3.0	16.3	17.6	17.5	6.3	6.5	6.7
Evansville	5.4	5.5	5.5	33.7	36.2	36.3	12.0	12.2	12.6
Fort Wayne	12.8	13.0	13.0	47.0	51.8	51.3	17.7	17.6	18.6
Gary-Hammond	8.4	8.5	8.4	54.7	56.9	57.1	32.0	31.7	32.2
Indianapolis	49.2	49.8	49.5	155.5	159.6	159.2	96.8	98.1	97.6
Kokomo	1.4	1.4	1.4	7.1	8.1	8.1	5.8	6.0	6.1
Lafayette-West Lafayette	3.1	3.1	3.1	14.1	15.7	15.7	21.9	22.2	22.5
Muncie	1.7	1.7	1.7	11.3	11.9	11.9	11.7	11.3	12.0
South Bend-Mishawaka	6.3	6.3	6.4	37.1	39.1	39.0	12.0	12.5	12.9
Terre Haute	2.0	2.1	2.1	12.3	12.3	12.1	10.9	10.3	10.4
Iowa	68.8	71.1	71.3	283.2	286.1	288.4	222.1	215.2	223.8
Cedar Rapids	4.7	4.6	4.7	23.4	24.2	24.2	11.3	11.5	11.9
Des Moines	31.7	33.4	33.5	58.9	58.4	58.7	31.5	31.4	32.2
Dubuque	1.5	1.5	1.5	13.3	13.2	13.8	3.8	3.7	3.8
Iowa City	1.4	1.5	1.5	9.6	9.6	9.8	26.0	25.8	26.5
Sioux City	2.5	2.7	2.6	15.2	14.8	15.4	6.6	6.7	6.7
Waterloo-Cedar Falls	2.9	3.0	3.0	16.0	15.8	16.1	13.4	13.4	13.9
Kansas	58.6	59.2	59.3	235.7	243.6	242.9	216.3	213.8	217.9
Lawrence	1.5	1.6	1.6	7.5	7.8	7.7	12.4	12.3	12.4
Topeka	6.6	6.5	6.5	21.6	22.5	22.4	22.0	21.1	21.3
Wichita	10.9	11.1	11.2	60.5	60.0	59.8	28.3	27.3	27.8
Kentucky	61.2	61.6	61.4	320.2	330.3	332.6	257.9	266.1	266.2
Lexington-Fayette	9.3	9.4	9.4	50.4	52.4	53.1	43.3	44.3	46.1
Louisville	27.2	27.2	27.3	122.6	128.2	129.0	63.2	64.6	65.4
Owensboro	1.5	1.5	1.5	8.5	8.6	8.5	5.5	5.8	6.1
Louisiana	77.9	78.6	78.5	348.9	353.9	355.2	314.0	317.3	322.4
Alexandria	2.5	2.3	2.3	11.6	11.9	12.0	12.8	12.7	12.9
Baton Rouge	13.1	13.0	13.0	50.3	50.5	50.4	54.5	54.6	54.7
Houma-Thibodaux	2.1	2.1	2.1	9.5	10.5	10.7	10.6	10.1	10.9
Lafayette	3.2	3.3	3.3	19.5	21.2	20.9	12.7	13.1	13.3
Lake Charles	3.1	3.1	3.0	12.9	13.6	13.7	10.5	10.7	10.8
Monroe	4.3	4.2	4.2	12.7	12.9	13.1	11.0	11.0	11.4
New Orleans	33.2	32.3	32.0	150.6	151.6	153.2	86.9	87.3	86.2
Shreveport	6.1	6.2	6.1	32.6	32.9	33.0	25.3	24.9	25.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Maine	554.1	537.1	536.9	0.2	0.2	0.1	34.6	29.2	28.7
Lewiston-Auburn	42.6	41.7	41.1	(¹)	(¹)	(¹)	2.3	2.1	2.0
Portland	135.8	133.5	134.0	(¹)	(¹)	(¹)	8.8	8.1	8.1
Maryland	2,165.6	2,174.6	2,181.1	1.7	1.7	1.7	166.8	168.5	167.0
Baltimore MSA	1,152.8	1,155.2	1,159.0	.3	.3	.3	80.1	78.4	78.2
Baltimore City	483.1	479.9	481.8	(¹)	(¹)	(¹)	21.5	20.2	20.1
Suburban Maryland-D.C.	782.0	786.3	788.5	(¹)	(¹)	(¹)	73.1	72.6	71.6
Massachusetts	3,120.3	3,009.9	3,023.0	1.6	1.5	1.6	128.2	108.3	103.8
Boston	1,743.2	1,682.4	1,695.1	.7	.8	.8	66.1	53.1	52.2
Brockton	74.3	72.5	72.8	(¹)	(¹)	(¹)	3.6	2.9	2.8
Fall River	57.6	55.6	55.0	(¹)	(¹)	(¹)	2.6	2.4	2.4
Fitchburg-Leominster	41.6	39.3	39.7	(¹)	(¹)	(¹)	2.0	1.7	1.5
Lawrence-Haverhill	164.2	162.8	162.3	(¹)	(¹)	(¹)	7.2	6.4	6.1
Lowell	105.8	100.2	100.7	(¹)	(¹)	(¹)	5.0	4.4	4.4
New Bedford	68.5	65.6	66.0	(¹)	(¹)	(¹)	3.1	2.6	2.8
Pittsfield	43.0	42.2	42.0	.1	.1	.1	2.3	1.8	1.8
Springfield	243.3	236.1	237.5	.2	.2	.2	9.0	7.9	7.7
Worcester	204.3	200.1	201.8	.2	.3	.4	9.0	8.2	8.1
Michigan	3,956.9	3,918.5	3,945.2	10.6	8.6	8.5	149.7	144.2	142.7
Ann Arbor	175.8	178.0	180.8	(¹)	(¹)	(¹)	6.4	6.0	8.0
Battle Creek	61.4	61.8	61.9	(¹)	(¹)	(¹)	2.6	2.9	2.8
Benton Harbor	67.2	67.5	68.4	(¹)	(¹)	(¹)	1.9	1.8	1.8
Detroit	1,955.0	1,932.8	1,944.9	1.2	1.2	1.2	69.9	62.6	63.1
Flint	164.6	171.3	187.4	(¹)	(¹)	(¹)	5.7	8.3	8.2
Grand Rapids	350.6	353.8	356.4	(¹)	(¹)	(¹)	17.1	17.3	18.9
Jackson	55.4	54.6	54.6	(¹)	(¹)	(¹)	2.1	2.8	2.6
Kalamazoo	114.5	114.4	115.2	(¹)	(¹)	(¹)	4.5	4.3	4.3
Lansing-East Lansing	219.2	211.8	219.0	(¹)	(¹)	(¹)	7.0	5.8	5.6
Muskegon	59.2	58.8	58.8	(¹)	(¹)	(¹)	2.5	2.6	2.4
Saginaw-Bay City-Midland	182.4	165.7	166.3	(¹)	(¹)	(¹)	9.3	9.2	9.4
Minnesota	2,132.3	2,152.8	2,168.4	8.1	8.7	8.6	88.8	90.8	89.0
Duluth	97.7	97.1	97.1	5.4	5.6	5.6	4.4	3.5	3.4
Minneapolis-St. Paul	1,375.0	1,385.0	1,398.9	(¹)	(¹)	(¹)	56.1	56.9	55.8
Rochester	64.7	65.4	65.1	(¹)	(¹)	(¹)	2.7	2.4	2.4
St. Cloud	80.5	82.0	83.3	(¹)	(¹)	(¹)	5.0	4.7	4.6
Mississippi	937.2	941.1	943.6	6.1	6.5	6.5	39.0	35.8	35.2
Jackson	188.2	190.1	190.3	.7	.7	.7	7.9	7.7	7.8
Missouri	2,338.4	2,344.4	2,347.8	5.3	5.3	5.3	103.3	103.2	101.2
Kansas City	786.1	798.3	801.3	(¹)	(¹)	(¹)	34.8	35.2	34.9
St. Louis	1,190.2	1,191.3	1,191.7	(¹)	(¹)	(¹)	66.5	60.9	59.7
Springfield	119.3	121.0	122.1	(¹)	(¹)	(¹)	5.0	4.7	4.6
Montana	298.8	301.1	301.2	6.5	6.6	6.5	11.9	11.6	11.4
Nebraska	715.4	729.2	734.8	1.6	1.7	1.8	24.9	26.1	26.0
Lincoln	120.7	123.1	124.0	(¹)	(¹)	(¹)	4.0	4.5	4.5
Omaha	326.9	331.6	334.8	(¹)	(¹)	(¹)	12.4	13.0	13.2
Nevada	601.8	639.2	641.5	14.2	15.6	15.6	50.3	53.1	53.1
Las Vegas	355.0	382.3	385.0	.3	.3	.3	35.0	36.2	36.3
Reno	145.1	148.2	148.7	1.6	1.6	1.6	8.1	8.5	8.3
New Hampshire	531.3	515.6	518.3	.5	.6	.6	32.0	26.0	25.2
Manchester	67.4	62.9	62.7	(¹)	(¹)	(¹)	5.7	4.2	3.9
Nashua	94.4	88.8	89.4	(¹)	(¹)	(¹)	3.9	2.5	2.5
Portsmouth-Dover-Rochester ..	115.3	110.0	109.0	(¹)	(¹)	(¹)	5.6	4.5	4.3
New Jersey	3,724.7	3,715.4	3,713.9	2.8	2.4	2.4	172.6	155.5	152.1
Atlantic City	169.1	184.8	175.1	(¹)	(¹)	(¹)	9.7	8.8	8.7
Bergen-Passaic	678.0	673.5	675.2	(¹)	(¹)	(¹)	33.4	31.2	30.3
Camden	457.2	482.1	466.4	(¹)	(¹)	(¹)	26.6	26.0	26.0
Jersey City	256.9	253.1	253.2	(¹)	(¹)	(¹)	7.1	8.8	6.5
Middlesex-Somerset-Hunterdon ..	548.2	538.1	545.3	.7	.7	.7	24.7	23.1	23.3
Monmouth-Ocean	341.0	343.0	340.4	(¹)	(¹)	(¹)	21.8	17.3	17.0
Newark	978.6	979.7	983.3	.8	.7	.7	39.8	38.4	37.7
Trenton	200.5	197.8	200.0	(¹)	(¹)	(¹)	5.7	5.1	5.0
Vineland-Millville-Bridgeton ..	59.7	60.3	60.8	.4	.4	.4	2.5	2.4	2.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Maine	107.8	105.5	103.9	21.3	22.6	22.7	141.3	133.6	133.3
Lewiston-Auburn	9.7	9.4	9.0	1.4	1.4	1.4	11.5	11.1	10.8
Portland	17.3	16.8	17.4	4.6	5.4	5.4	42.3	40.4	40.6
Maryland	208.8	203.8	203.6	101.2	103.0	102.8	540.8	545.3	542.3
Baltimore MSA	130.2	127.4	126.7	56.5	57.5	58.0	280.0	282.0	279.8
Baltimore City	45.0	44.6	44.5	28.8	28.8	29.0	96.2	95.1	94.1
Suburban Maryland-D.C.	38.6	37.1	37.2	31.6	32.3	32.7	198.9	200.7	200.3
Massachusetts	556.5	523.6	522.5	121.5	130.1	130.0	748.0	720.2	717.5
Boston	256.5	242.1	240.7	70.5	77.0	77.1	394.3	376.7	380.8
Brockton	9.8	9.2	9.2	4.2	4.5	4.5	24.6	24.0	24.0
Fall River	15.3	14.3	14.1	1.7	1.9	1.8	15.9	14.9	14.8
Fitchburg-Leominster	12.4	11.7	11.7	1.3	1.4	1.4	10.3	9.2	9.4
Lawrence-Haverhill	48.8	45.2	45.0	6.3	6.2	6.2	37.4	37.4	37.0
Lowell	34.3	31.1	31.1	4.6	4.9	4.9	22.7	21.5	21.7
New Bedford	17.9	16.6	16.7	2.7	2.7	2.6	17.1	16.9	18.9
Pittsfield	10.6	10.6	10.4	1.3	1.4	1.4	10.3	10.0	10.2
Springfield	47.9	45.9	46.2	9.4	9.9	10.0	60.9	58.5	58.6
Worcester	44.6	43.2	42.9	8.5	9.5	9.3	49.8	49.3	49.6
Michigan	964.4	943.6	939.1	153.3	155.8	155.2	926.5	924.9	926.7
Ann Arbor	37.0	39.0	36.5	4.9	5.1	5.1	30.6	30.1	30.7
Battle Creek	17.0	16.4	16.2	1.6	1.6	1.5	12.3	12.2	12.2
Benton Harbor	21.1	21.1	21.1	2.5	2.7	2.7	14.8	14.8	14.7
Detroit	460.5	444.3	445.0	87.4	89.0	89.0	466.8	463.5	461.7
Flint	49.3	52.2	48.4	4.3	4.4	4.3	41.8	42.2	41.9
Grand Rapids	102.5	103.2	103.2	11.6	11.4	11.3	92.5	94.5	95.2
Jackson	13.6	12.6	12.4	4.1	3.9	3.9	13.1	13.1	13.0
Kalamazoo	30.6	30.1	29.8	3.3	3.3	3.3	26.4	26.4	26.7
Lansing-East Lansing	33.2	32.1	31.9	5.6	5.8	5.8	46.5	45.5	48.8
Muskegon	17.1	16.4	16.4	2.2	2.2	2.2	13.8	14.2	14.0
Saginaw-Bay City-Midland	44.7	44.9	44.9	6.3	6.2	6.1	38.8	40.8	41.1
Minnesota	401.4	402.7	398.0	108.4	110.4	111.0	523.0	531.1	529.1
Duluth	8.5	8.8	8.5	6.0	6.0	6.0	24.7	24.5	24.6
Minneapolis-St. Paul	263.7	260.7	259.8	76.1	79.2	79.1	335.1	339.1	338.5
Rochester	12.0	12.1	11.9	1.9	1.9	1.9	12.6	12.7	12.8
St. Cloud	14.3	15.2	15.3	3.8	3.9	3.9	24.5	26.2	26.2
Mississippi	245.2	243.0	243.9	47.1	47.5	47.6	199.9	203.0	203.1
Jackson	21.5	21.5	21.1	14.2	14.8	14.8	44.3	44.5	44.7
Missouri	439.4	432.7	430.8	151.4	151.7	151.7	575.0	578.3	575.8
Kansas City	111.0	110.1	111.2	64.3	65.8	65.8	206.6	209.4	210.2
St. Louis	225.4	222.1	219.2	77.3	78.1	77.7	289.5	290.6	292.4
Springfield	21.3	21.2	20.8	7.4	7.7	7.8	33.9	35.0	35.1
Montana	22.7	23.7	23.4	20.0	19.9	20.0	79.3	80.8	79.9
Nebraska	96.0	97.5	98.3	48.1	47.2	47.4	185.0	185.7	186.8
Lincoln	14.3	14.6	14.6	6.5	6.7	6.7	27.5	27.7	28.1
Omaha	35.9	36.6	36.6	24.7	25.0	25.1	83.5	84.7	85.1
Nevada	25.6	26.4	26.5	31.4	32.8	32.8	123.5	131.7	132.1
Las Vegas	10.3	10.7	10.8	18.7	19.6	19.8	74.9	80.3	80.6
Reno	8.5	8.5	8.6	9.4	9.2	9.2	33.4	34.5	34.6
New Hampshire	112.3	108.0	106.9	15.6	18.7	18.6	137.1	126.7	129.7
Manchester	11.6	10.9	10.8	4.8	4.8	4.8	22.9	21.2	21.2
Nashua	34.1	32.3	32.0	3.0	3.1	3.1	23.1	21.1	21.1
Portsmouth-Dover-Rochester	20.9	16.9	18.6	2.8	2.6	2.7	28.6	27.1	27.1
New Jersey	652.8	634.3	630.9	244.1	244.7	245.0	891.0	895.5	892.4
Atlantic City	6.7	8.5	8.4	6.8	6.6	6.7	36.0	42.2	37.0
Bergen-Passaic	150.1	145.9	145.7	30.0	29.4	29.5	195.6	193.3	194.1
Camden	72.7	69.6	69.3	19.8	20.1	20.4	124.4	126.1	127.6
Jersey City	45.6	43.6	42.9	34.7	33.8	33.5	82.7	60.9	61.5
Middlesex-Somerset-Hunterdon	114.3	110.9	110.8	42.0	42.1	42.3	135.1	129.1	132.1
Monmouth-Ocean	28.0	27.0	27.0	17.6	17.3	17.3	91.2	95.1	94.2
Newark	171.9	169.8	169.1	82.6	84.2	84.4	200.3	196.0	196.0
Trenton	29.0	27.5	27.1	6.7	6.7	6.8	31.7	31.7	31.8
Vineland-Millville-Bridgeton	17.4	17.5	17.7	2.2	2.2	2.2	11.3	11.4	11.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Maine	25.5	25.2	25.1	124.5	127.0	126.0	98.9	93.8	97.1
Lewiston-Auburn	2.4	2.3	2.3	10.9	11.2	11.3	4.4	4.2	4.3
Portland	11.8	11.4	11.5	34.7	35.9	35.0	16.3	15.5	16.0
Maryland	131.8	132.5	132.2	596.8	605.8	604.6	417.9	414.2	426.9
Baltimore MSA	77.6	76.9	76.7	316.8	323.3	323.6	211.3	209.4	215.7
Baltimore City	45.8	45.6	45.5	153.3	151.7	153.8	92.5	93.9	94.8
Suburban Maryland-D.C.	45.8	46.0	45.8	228.7	229.2	228.9	165.3	168.4	172.0
Massachusetts	216.4	215.7	214.7	938.5	924.7	937.0	409.6	385.8	395.9
Boston	147.1	145.5	144.7	601.3	591.6	601.7	206.7	195.6	197.1
Brockton	3.8	3.5	3.5	16.3	16.5	16.9	12.2	11.9	11.9
Fall River	3.8	3.5	3.5	11.4	11.4	11.3	7.1	7.2	7.1
Fitchburg-Leominster	1.5	1.5	1.5	9.1	9.2	9.3	5.0	4.6	4.9
Lawrence-Haverhill	6.5	6.3	6.4	38.4	40.5	40.5	21.6	20.8	21.1
Lowell	3.8	3.4	3.4	21.9	22.1	22.0	13.3	12.6	13.2
New Bedford	2.5	2.4	2.4	15.3	15.3	15.4	9.9	9.1	9.4
Pittsfield	2.0	2.0	1.9	11.7	12.2	12.0	4.7	4.2	4.5
Springfield	15.3	14.8	14.4	61.2	61.5	62.2	39.4	37.6	38.2
Worcester	14.2	14.0	13.9	53.6	52.3	53.6	24.4	23.3	23.6
Michigan	189.0	193.0	192.7	915.0	927.2	927.9	648.4	621.2	652.5
Ann Arbor	4.5	4.8	4.5	37.3	40.2	40.1	54.9	53.1	57.9
Battle Creek	3.2	3.4	3.5	12.9	13.9	13.9	11.8	11.5	11.8
Benton Harbor	2.8	2.7	2.7	15.4	15.6	16.3	8.9	8.7	9.1
Detroit	110.8	114.1	114.0	515.4	522.6	526.8	243.1	235.4	244.2
Flint	8.1	8.4	8.4	33.8	35.9	36.1	23.7	24.0	24.1
Grand Rapids	15.7	15.9	16.1	76.2	77.2	78.0	35.0	34.4	35.7
Jackson	1.7	1.7	1.7	10.4	10.4	10.4	10.5	10.1	10.7
Kalamazoo	5.0	5.3	5.3	25.4	25.9	26.2	19.2	19.1	19.6
Lansing-East Lansing	12.8	12.9	12.9	43.5	44.5	44.1	70.5	65.1	71.9
Muskegon	1.5	1.5	1.5	12.4	12.6	12.5	9.7	9.4	9.7
Saginaw-Bay City-Midland	8.2	6.2	6.3	36.0	37.8	37.7	20.9	20.8	20.9
Minnesota	121.1	123.9	123.9	547.4	564.3	565.6	334.1	320.9	343.2
Duluth	3.3	3.2	3.2	23.8	24.4	24.0	21.6	21.1	21.8
Minneapolis-St. Paul	93.1	95.0	95.1	387.4	377.1	376.8	182.9	176.5	189.3
Rochester	1.8	1.7	1.7	27.5	28.4	28.0	6.4	6.2	6.4
St. Cloud	2.4	2.5	2.4	16.3	16.8	16.8	14.2	12.7	14.1
Mississippi	38.9	38.5	38.5	155.3	159.4	160.0	205.8	207.3	206.7
Jackson	14.9	14.5	14.8	42.6	43.7	43.7	42.2	42.9	43.2
Missouri	134.9	134.7	134.8	560.3	574.9	574.3	368.8	385.8	373.9
Kansas City	59.1	59.1	59.3	192.3	196.1	196.0	118.0	122.6	123.9
St. Louis	74.2	73.9	73.9	311.9	320.9	322.3	145.3	144.6	146.5
Springfield	5.4	5.6	5.7	30.9	31.5	32.0	15.4	15.3	16.1
Montana	13.3	13.5	13.3	72.8	74.9	74.4	72.3	70.1	72.3
Nebraska	48.2	47.9	47.8	170.0	175.3	176.2	143.8	147.8	150.7
Lincoln	6.5	6.4	6.4	27.9	28.5	28.7	32.0	32.7	33.0
Omaha	29.2	29.1	29.1	93.3	95.2	96.2	47.9	48.0	49.5
Nevada	26.0	27.9	27.8	257.0	275.3	274.7	73.8	76.4	78.9
Las Vegas	16.7	17.5	17.5	161.3	178.3	179.0	37.8	39.4	40.7
Reno	8.8	7.2	7.1	59.3	60.6	60.4	18.0	18.1	18.9
New Hampshire	32.7	31.8	31.8	127.9	126.2	126.4	73.2	73.6	75.1
Manchester	6.8	6.7	6.6	24.8	24.2	24.2	8.8	8.9	9.0
Nashua	3.3	3.2	3.2	19.1	18.4	19.3	7.9	8.0	8.2
Portsmouth-Dover-Rochester	7.3	7.0	7.0	23.6	24.0	23.1	26.5	25.9	26.2
New Jersey	241.6	240.2	238.7	958.5	991.0	984.2	561.5	551.8	568.2
Atlantic City	6.7	7.0	6.8	75.2	84.7	81.1	26.0	27.0	26.4
Bergen-Passaic	39.2	38.8	38.7	161.6	166.9	167.0	68.1	68.0	69.9
Camden	25.3	24.8	24.7	112.7	120.7	119.8	75.7	74.8	78.4
Jersey City	16.8	16.2	16.2	50.0	51.8	51.8	40.0	40.0	40.8
Middlesex-Somerset-Hunterdon	38.7	38.3	38.0	116.4	120.8	120.9	74.3	73.1	77.2
Monmouth-Ocean	19.7	19.3	19.1	98.7	103.9	101.9	64.0	63.1	63.9
Newark	80.0	79.0	79.1	264.1	272.8	273.7	139.3	138.8	142.6
Trenton	10.5	10.8	10.8	60.6	59.7	61.7	56.3	58.3	56.8
Vineland-Millville-Bridgeton	3.8	3.9	3.9	10.6	10.7	10.6	11.5	11.8	12.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
New Mexico	570.6	572.3	573.4	14.9	14.6	14.7	31.6	29.2	29.2
Albuquerque	243.9	245.0	244.8	(⁹)	(⁹)	(⁹)	14.3	12.3	12.2
Las Cruces	44.0	43.6	44.4	(⁹)	(⁹)	(⁹)	2.4	2.4	2.3
Santa Fe	57.2	59.0	59.2	(⁹)	(⁹)	(⁹)	2.9	2.7	2.7
New York	8,318.5	8,261.3	8,298.0	6.0	6.0	5.9	355.1	320.1	312.2
Albany-Schenectady-Troy	432.4	434.3	438.7	.6	.8	.7	22.8	21.8	21.1
Binghamton	122.7	121.1	121.5	(¹)	(¹)	(¹)	6.1	5.6	5.6
Buffalo	465.4	467.2	468.9	(¹)	(¹)	(¹)	19.1	19.2	18.7
Elmira	41.9	41.8	41.8	(¹)	(¹)	(¹)	1.9	1.7	1.8
Glens Falls	48.0	49.1	48.5	(¹)	(¹)	(¹)	2.7	2.9	2.8
Nassau-Suffolk	1,147.4	1,129.4	1,137.7	(¹)	(¹)	(¹)	59.9	54.3	53.2
New York PMSA	4,144.2	4,117.3	4,131.2	(¹)	(¹)	(¹)	157.6	143.4	144.8
New York City	3,608.7	3,585.6	3,593.6	.4	.2	.2	123.4	111.7	109.9
Niagara Falls	87.4	87.6	87.8	(¹)	(¹)	(¹)	4.5	4.8	4.6
Orange County	109.2	108.4	107.2	(¹)	(¹)	(¹)	5.4	4.9	4.8
Poughkeepsie	121.9	120.8	121.3	(¹)	(¹)	(¹)	7.0	6.3	6.3
Rochester	497.2	490.9	496.6	.8	.7	.7	20.7	20.9	20.3
Rockland County	103.2	103.4	103.0	(¹)	(¹)	(¹)	5.1	5.2	4.9
Syracuse	316.1	316.8	320.8	(¹)	(¹)	(¹)	18.2	17.5	16.1
Utica-Rome	128.8	129.6	128.7	(¹)	(¹)	(¹)	4.7	4.4	4.1
Westchester County	413.1	409.3	415.6	(¹)	(¹)	(¹)	26.9	24.4	27.9
North Carolina	3,119.6	3,113.0	3,123.9	5.0	5.0	5.0	167.7	163.4	162.3
Asheville	87.2	90.5	90.2	(¹)	(¹)	(¹)	4.8	4.5	4.5
Charlotte-Gastonia-Rock Hill	623.2	637.1	637.6	(¹)	(¹)	(¹)	36.7	38.2	38.1
Greensboro-Winston-Salem-High Point	490.6	483.0	486.2	(¹)	(¹)	(¹)	25.0	24.9	24.7
Raleigh-Durham	429.9	428.2	430.9	(¹)	(¹)	(¹)	22.6	21.9	21.6
North Dakota	265.5	268.5	270.9	4.2	4.5	4.4	11.6	11.7	11.7
Bismarck	39.4	41.1	40.9	(¹)	(¹)	(¹)	1.8	2.3	2.2
Fargo-Moorhead	77.7	77.8	80.0	(¹)	(¹)	(¹)	4.4	4.7	4.7
Grand Forks	32.3	31.6	33.1	(¹)	(¹)	(¹)	1.6	1.6	1.5
Ohio	4,885.7	4,979.9	4,997.5	18.6	18.3	18.1	212.3	216.5	215.3
Akron	288.5	297.8	296.7	.7	.6	.6	10.9	11.5	11.3
Canton	161.8	169.1	169.2	.8	.8	.8	7.9	8.3	8.0
Cincinnati	739.2	760.8	762.1	.4	.5	.5	36.8	37.5	36.7
Cleveland	947.7	964.4	964.9	.9	.9	.9	35.9	37.3	36.8
Columbus	712.9	730.2	737.2	.9	.9	1.0	31.2	32.6	31.8
Dayton-Springfield	453.3	462.4	462.5	.5	.5	.5	16.8	18.8	18.5
Toledo	298.1	300.8	301.6	.2	.3	.3	13.3	13.6	13.4
Youngstown-Warren	202.2	203.9	204.4	.4	.5	.5	8.6	9.1	8.7
Oklahoma	1,163.2	1,169.6	1,177.9	43.2	45.2	45.3	36.5	36.9	36.6
Enid	21.3	21.3	21.3	.9	.9	.9	.6	.6	.6
Lawton	35.3	35.2	35.3	.3	.3	.3	1.1	1.0	.9
Oklahoma City	426.2	431.4	427.7	10.9	10.4	10.5	12.0	13.1	12.8
Tulsa	308.4	317.8	320.1	12.8	12.2	12.2	10.8	11.6	11.4
Oregon	1,237.4	1,264.7	1,269.3	1.5	1.6	1.5	49.2	54.0	54.3
Eugene-Springfield	119.0	119.1	121.7	.2	.2	.2	4.4	4.6	4.5
Portland	625.0	641.2	643.7	.4	.4	.4	27.9	28.5	28.5
Salem	109.1	111.6	110.0	.1	.1	.1	4.5	4.7	4.6
Pennsylvania	5,166.7	5,145.7	5,173.1	27.9	27.4	27.5	251.0	249.0	248.2
Allentown-Bethlehem	283.7	282.2	284.0	.6	.6	.6	13.7	13.4	13.2
Altoona	51.9	53.2	53.3	(¹)	(¹)	(¹)	2.5	2.7	2.7
Beaver County	50.2	49.6	50.2	(¹)	(¹)	(¹)	2.7	2.4	2.4
Erie	118.6	120.2	121.5	(¹)	(¹)	(¹)	3.9	4.2	4.2
Harrisburg-Lebanon-Carlisle	312.3	321.6	321.0	.4	.5	.5	14.9	16.1	16.0
Johnstown	79.7	81.5	81.5	2.6	2.8	2.4	3.3	3.3	3.3
Lancaster	190.8	190.0	191.5	.4	.5	.4	12.3	12.9	12.8
Philadelphia PMSA	2,205.9	2,195.0	2,212.7	1.1	1.1	1.0	106.1	105.1	105.2
Philadelphia City	770.7	763.1	765.1	(¹)	(¹)	(¹)	18.3	18.0	18.1
Pittsburgh	911.1	916.2	921.9	4.5	4.6	4.5	45.9	44.7	43.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Oct. 1989	Sept. 1990	Oct. 1990 ^a	Oct. 1989	Sept. 1990	Oct. 1990 ^a	Oct. 1989	Sept. 1990	Oct. 1990 ^a
New Mexico	43.4	44.0	44.1	29.4	28.6	28.6	135.7	135.6	135.0
Albuquerque	21.3	21.2	21.1	12.7	12.6	12.6	60.9	61.2	61.2
Las Cruces	3.8	3.5	3.6	1.6	1.5	1.5	9.2	9.3	9.4
Santa Fe	1.7	1.7	1.8	1.0	1.0	1.0	10.8	11.3	11.3
New York	1,192.1	1,153.1	1,146.1	386.4	427.4	429.9	1,744.9	1,710.4	1,708.4
Albany-Schenectady-Troy	46.5	47.1	47.3	16.1	17.8	17.8	93.5	94.0	94.3
Binghamton	35.5	33.8	33.4	4.2	4.5	4.5	25.8	26.2	26.3
Buffalo	76.6	75.9	75.1	21.0	22.6	22.7	118.8	119.7	120.1
Elmira	9.0	8.4	8.4	1.2	1.4	1.4	10.8	10.8	10.8
Glens Falls	10.4	9.6	9.7	1.6	1.7	1.5	11.6	12.2	12.0
Nassau-Suffolk	160.0	151.8	151.4	44.6	52.1	52.2	303.5	298.2	296.1
New York PMSA	439.9	422.2	419.5	224.9	246.8	247.4	758.1	734.6	735.8
New York City	362.9	348.8	346.3	202.2	221.1	221.5	634.8	613.8	614.2
Niagara Falls	24.2	23.8	23.6	4.0	4.4	4.3	20.9	21.5	21.4
Orange County	14.2	13.2	13.1	6.6	6.9	6.9	30.2	29.3	29.3
Poughkeepsie	30.2	29.3	29.3	3.4	4.0	4.0	22.5	22.2	22.1
Rochester	138.1	133.0	133.1	15.4	15.6	15.7	107.0	107.5	107.8
Rockland County	14.8	14.2	14.1	4.9	5.2	5.2	24.3	23.8	23.5
Syracuse	52.6	52.0	51.2	18.1	19.2	19.1	76.1	77.5	81.1
Utica-Rome	24.4	23.6	23.2	3.7	4.3	4.4	28.4	28.9	28.5
Westchester County	60.2	57.4	57.0	17.2	19.7	19.9	94.7	93.1	93.7
North Carolina	869.5	849.9	844.8	155.3	157.4	158.8	726.0	732.4	734.9
Asheville	20.2	20.1	20.1	4.3	4.3	4.3	21.1	22.3	22.5
Charlotte-Gastonia-Rock Hill	153.3	152.8	150.7	50.3	51.4	51.5	155.2	158.2	158.6
Greensboro-Winston-Salem-High Point	149.0	145.2	144.5	26.4	25.9	26.0	113.3	111.9	112.7
Raleigh-Durham	63.7	63.2	63.5	21.0	21.1	20.9	91.6	91.2	91.5
North Dakota	17.2	17.8	18.5	17.0	17.4	17.4	70.0	70.4	69.8
Bismarck	2.2	2.3	2.3	2.8	3.1	3.1	10.2	10.4	10.2
Fargo-Moorhead	5.4	5.9	6.1	4.8	4.7	4.9	21.9	21.9	22.1
Grand Forks	1.5	1.4	1.6	1.7	1.7	1.7	9.4	9.7	9.8
Ohio	1,118.3	1,126.4	1,125.2	219.4	222.3	222.1	1,187.7	1,219.3	1,219.3
Akron	67.9	68.8	69.0	13.3	13.7	13.7	71.7	73.8	73.5
Canton	40.6	45.7	45.8	5.7	5.7	5.7	41.9	42.5	42.6
Cincinnati	148.8	149.8	150.2	40.5	42.0	41.9	194.2	201.8	202.4
Cleveland	207.4	207.0	207.4	42.9	43.5	43.4	228.3	235.8	235.4
Columbus	105.5	106.0	106.4	31.2	32.1	32.1	183.6	191.4	192.6
Dayton-Springfield	101.7	104.8	104.3	17.9	18.8	18.7	102.3	104.1	104.2
Toledo	60.1	60.7	59.6	14.5	14.7	14.8	75.6	76.9	76.8
Youngstown-Warren	50.0	49.0	48.7	7.9	8.0	7.9	53.9	55.8	55.8
Oklahoma	163.3	166.2	162.4	64.5	66.3	66.8	276.4	280.6	279.8
Enid	1.5	1.5	1.5	2.2	2.1	2.0	6.2	8.2	6.2
Lawton	3.5	3.5	3.6	1.9	1.7	1.8	8.6	9.0	8.8
Oklahoma City	48.8	48.5	44.4	20.9	21.1	21.1	104.1	105.2	104.7
Tulsa	52.3	54.8	55.2	24.4	25.4	25.4	73.1	75.9	76.0
Oregon	222.4	225.9	218.9	63.9	64.4	64.8	319.2	329.5	326.9
Eugene-Springfield	21.3	21.2	20.3	4.5	4.4	4.5	30.2	30.9	31.0
Portland	101.1	104.5	102.6	37.7	37.7	37.8	166.4	173.8	171.7
Salem	18.0	19.4	17.1	2.9	2.8	2.8	23.9	24.4	24.0
Pennsylvania	1,044.6	1,029.7	1,026.7	256.8	256.2	257.4	1,185.6	1,174.9	1,185.9
Allentown-Bethlehem	75.4	74.5	74.3	14.4	14.2	14.2	63.1	62.8	63.9
Altoona	10.2	10.1	10.1	4.7	4.6	4.6	13.9	14.4	14.3
Beaver County	9.0	9.1	8.9	5.3	5.1	5.2	11.6	11.7	11.7
Erie	35.8	36.4	37.0	4.4	4.5	4.5	25.7	25.8	25.4
Harrisburg-Lebanon-Carlisle	51.7	51.1	50.7	19.2	19.5	19.5	70.8	72.2	72.1
Johnstown	13.6	14.8	14.7	5.1	5.1	5.0	17.4	17.7	17.7
Lancaster	58.8	56.9	58.6	7.6	7.8	7.8	47.5	47.8	47.9
Philadelphia PMSA	364.2	352.7	351.1	100.0	101.2	101.1	514.3	505.1	511.6
Philadelphia City	87.1	82.9	82.3	41.4	41.3	41.3	149.0	146.8	148.0
Pittsburgh	123.2	123.5	123.0	49.2	50.5	50.6	227.7	227.5	228.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
New Mexico	26.7	26.4	26.2	139.9	143.8	143.3	149.0	150.1	152.3
Albuquerque	14.2	14.1	14.2	71.0	73.0	72.7	49.4	50.5	50.7
Las Cruces	1.7	1.7	1.7	7.6	7.8	7.8	17.6	17.3	18.0
Santa Fe	2.1	2.1	2.1	15.3	15.8	15.8	23.3	24.3	24.4
New York	793.3	783.3	776.1	2,387.5	2,429.2	2,442.4	1,453.1	1,431.7	1,477.1
Albany-Schenectady-Troy	25.1	25.4	25.6	114.1	116.1	117.4	113.7	111.4	114.6
Binghamton	4.1	4.2	4.2	25.2	25.1	25.2	21.9	21.6	22.2
Buffalo	28.4	28.4	28.5	126.3	129.2	129.9	75.3	72.2	74.0
Elmira	1.4	1.5	1.4	10.6	10.9	10.9	7.1	7.0	7.0
Glens Falls	1.7	1.6	1.6	10.8	11.5	11.0	9.4	9.4	9.9
Nassau-Suffolk	84.1	84.4	83.7	308.8	314.0	315.6	186.5	174.5	185.5
New York PMSA	565.4	554.1	547.7	1,319.4	1,336.7	1,347.2	678.9	679.6	689.0
New York City	528.6	518.1	511.7	1,160.1	1,173.3	1,183.9	596.5	599.0	605.8
Niagara Falls	2.0	2.1	2.1	18.6	18.5	18.8	13.2	12.7	13.1
Orange County	4.8	4.6	4.8	23.9	24.1	24.1	24.1	23.2	24.2
Poughkeepsie	4.9	4.9	4.8	29.1	29.8	30.0	24.9	24.2	24.8
Rochester	23.0	23.2	23.2	125.0	126.1	128.2	67.2	63.9	67.7
Rockland County	5.4	5.5	5.5	27.2	28.6	28.2	21.6	21.2	21.6
Syracuse	20.2	20.3	20.3	78.3	78.7	78.6	52.7	51.6	54.2
Utica-Rome	7.5	7.7	7.7	28.3	29.4	29.2	31.8	31.3	31.6
Westchester County	30.8	29.7	29.8	128.8	129.5	129.8	56.7	55.5	57.5
North Carolina	133.2	133.9	133.7	576.5	590.8	594.1	486.4	480.2	492.5
Asheville	2.6	2.9	2.8	21.0	22.2	21.8	13.0	14.2	14.2
Charlotte-Gastonia-Rock Hill	38.3	38.5	38.4	118.2	123.9	125.3	71.2	74.1	75.0
Greensboro-Winston-Salem-High Point	23.7	23.3	23.3	98.2	99.7	101.0	55.0	52.1	54.0
Raleigh-Durham	23.9	24.2	24.1	110.4	111.5	111.9	96.7	95.1	97.4
North Dakota	12.2	12.4	12.3	66.7	70.0	70.2	66.6	64.3	66.6
Bismarck	1.5	1.5	1.5	12.0	12.5	12.5	8.9	9.0	9.1
Fargo-Moorhead	4.5	4.6	4.6	21.7	21.4	22.6	15.0	14.6	15.0
Grand Forks	1.1	1.2	1.2	7.1	7.2	7.3	9.9	8.8	10.0
Ohio	254.1	258.3	257.4	1,156.2	1,208.9	1,204.6	721.2	707.9	735.6
Akron	10.6	10.8	10.6	67.2	73.0	71.5	46.3	45.9	46.5
Canton	6.8	6.7	6.7	38.7	40.0	40.1	19.4	19.4	19.6
Cincinnati	42.7	43.4	43.1	184.9	194.3	193.7	90.9	91.6	93.7
Cleveland	56.9	58.2	57.9	256.2	264.8	262.8	119.2	117.2	120.4
Columbus	59.8	60.9	60.8	174.5	183.1	182.8	126.2	123.1	129.8
Dayton-Springfield	17.7	17.7	17.5	116.8	120.0	119.7	77.6	77.7	79.2
Toledo	12.1	12.1	12.1	77.3	80.0	79.4	44.9	42.6	45.0
Youngstown-Warren	8.7	8.7	8.6	47.4	49.2	48.6	25.3	23.8	25.3
Oklahoma	58.3	55.1	54.9	265.1	264.4	268.8	255.9	254.9	263.3
Enid .....	.9	.9	.9	5.3	5.2	5.3	3.7	3.9	3.9
Lawton	1.7	1.7	1.7	6.2	6.6	6.4	12.0	11.4	11.8
Oklahoma City	24.4	23.8	23.9	104.9	107.5	108.0	100.2	101.8	102.3
Tulsa	16.9	18.1	18.1	80.6	84.3	84.0	37.5	36.1	37.8
Oregon	75.7	78.0	77.5	284.4	296.8	296.8	221.1	214.5	226.6
Eugene-Springfield	5.6	5.9	6.0	28.7	29.7	29.7	24.1	22.2	25.5
Portland	50.1	51.0	50.7	157.5	163.6	164.9	83.9	81.7	87.1
Salem	5.5	5.6	5.5	22.7	23.9	23.7	31.5	30.7	32.2
Pennsylvania	296.0	295.9	293.2	1,397.3	1,421.7	1,424.0	707.5	690.9	710.2
Allentown-Bethlehem	14.3	14.3	14.3	71.1	71.6	71.3	31.1	31.0	32.2
Altoona	1.9	1.9	1.9	11.5	12.3	12.3	7.2	7.2	7.4
Beaver County	1.7	1.6	1.6	11.9	11.9	12.2	8.0	7.8	8.2
Erie	5.5	5.6	5.6	29.1	30.1	30.7	14.2	13.6	14.1
Harrisburg-Lebanon-Carlisle	20.4	21.7	21.8	68.0	73.3	72.1	66.9	67.2	68.3
Johnstown	4.3	4.3	4.3	20.6	20.9	21.2	12.8	12.8	12.9
Lancaster	7.3	7.6	7.7	40.5	41.3	41.5	18.6	15.4	17.0
Philadelphia PMSA	158.4	159.9	159.2	658.3	668.5	676.9	303.5	301.4	306.6
Philadelphia City	69.6	69.3	68.6	263.4	263.2	265.7	141.9	142.5	141.1
Pittsburgh	53.9	55.1	54.9	297.0	303.5	305.2	109.7	106.8	111.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Pennsylvania—Continued									
Reading	158.5	157.5	158.7	(¹)	(¹)	(¹)	7.7	8.2	8.0
Scranton-Wilkes-Barre	309.1	310.2	311.4	0.6	0.7	0.6	16.0	15.7	15.6
Sharon	43.8	44.7	44.7	(¹)	(¹)	(¹)	1.6	1.7	1.6
State College	81.2	61.3	62.2	.3	.3	.3	3.4	3.8	3.6
Williamsport	52.7	52.1	53.1	(¹)	(¹)	(¹)	2.7	3.0	2.9
York	181.5	180.8	181.5	.4	.4	.4	11.2	11.5	11.2
Rhode Island									
Pawtucket-Woonsocket-Attleboro	463.4	451.8	453.3	.1	.1	.1	20.0	18.1	17.2
Providence	133.6	131.1	131.2	.2	.2	.2	5.3	4.6	4.5
Providence	332.6	327.9	329.9	.1	.1	.1	16.0	15.2	14.5
South Carolina									
Charleston	1,521.8	1,571.4	1,576.0	1.8	1.8	1.8	95.9	108.2	106.2
Charleston	195.0	209.4	209.1	(¹)	(¹)	(¹)	13.4	14.8	14.9
Columbia	238.2	245.7	247.4	(¹)	(¹)	(¹)	13.8	19.5	19.1
Greenville-Spartanburg	336.8	342.1	343.2	(¹)	(¹)	(¹)	23.5	23.8	23.9
South Dakota									
Rapid City	281.2	282.8	285.2	2.7	2.7	2.7	11.5	11.9	11.6
Rapid City	37.1	38.2	37.4	.3	.3	.3	2.0	2.2	2.0
Sioux Falls	72.2	73.6	74.6	(¹)	(¹)	(¹)	3.6	3.7	3.7
Tennessee									
Chattanooga	2,187.4	2,196.7	2,191.0	6.3	6.3	6.2	103.6	101.6	100.6
Chattanooga	197.6	199.3	199.3	.8	.8	.8	8.6	8.7	6.6
Johnson City-Kingsport-Bristol	170.8	172.8	172.4	(¹)	(¹)	(¹)	8.1	8.0	8.0
Knoxville	269.7	266.3	265.1	1.8	1.9	1.9	16.6	15.3	14.9
Memphis	464.3	473.4	474.2	(¹)	(¹)	(¹)	19.6	20.4	20.0
Nashville	497.3	498.6	499.7	(¹)	(¹)	(¹)	25.3	24.4	24.2
Texas									
Ablene	6,964.1	6,960.8	6,960.4	173.7	179.6	180.5	317.7	326.4	326.2
Ablene	48.9	49.4	49.2	1.5	1.8	1.8	1.4	1.7	1.7
Amarillo	76.9	76.9	76.7	1.1	1.0	1.0	3.5	3.5	3.4
Austin	367.9	371.3	371.4	.7	.7	.8	11.3	11.1	10.9
Beaumont-Port Arthur	136.5	140.6	140.9	1.5	1.7	1.7	10.4	10.8	10.9
Brazoria	62.9	64.8	64.9	2.0	2.1	2.0	8.2	9.0	9.0
Brownsville-Harlingen	74.4	76.1	76.3	(¹)	(¹)	(¹)	2.1	2.2	2.2
Bryan-College Station	53.4	53.2	54.9	.5	.5	.5	1.5	1.5	1.4
Corpus Christi	128.2	129.8	130.3	3.5	3.4	3.5	9.7	10.1	10.2
Dallas	1,380.9	1,367.1	1,372.8	17.1	17.3	17.2	47.5	46.8	46.5
El Paso	205.5	207.7	207.8	(¹)	(¹)	(¹)	8.1	8.0	7.9
Ft. Worth-Arlington	569.4	581.5	581.0	4.0	4.0	4.1	21.8	20.9	20.8
Galveston-Texas City	73.4	75.9	75.7	.5	.6	.8	5.9	6.2	6.1
Houston	1,517.5	1,559.0	1,562.5	66.0	69.3	69.6	97.9	102.0	102.2
Killeen-Temple	74.0	73.9	74.1	(¹)	(¹)	(¹)	3.1	2.9	3.0
Laredo	43.7	44.7	44.8	1.6	1.7	1.7	1.3	1.2	1.3
Longview-Marshall	67.7	69.2	69.2	3.4	3.9	3.9	3.2	3.6	3.6
Lubbock	96.8	97.4	98.1	.3	.2	.2	3.2	3.3	3.3
McAllen-Edinburg-Mission	97.7	99.8	100.1	.9	.9	.9	4.4	4.5	4.4
Midland	44.8	44.7	45.1	8.6	8.6	8.8	1.3	1.4	1.4
Odessa	42.8	43.1	43.3	5.2	5.0	5.1	2.0	2.0	2.0
San Angelo	36.8	35.8	35.8	.6	.6	.6	1.1	1.1	1.1
San Antonio	514.1	518.7	519.2	2.2	2.2	2.2	21.4	21.6	21.5
Sherman-Denison	37.3	37.0	37.0	(¹)	(¹)	(¹)	1.7	1.7	1.7
Texarkana	47.3	46.7	46.6	.1	.1	.1	1.7	1.4	1.4
Tyler	61.3	62.1	62.4	1.7	1.6	1.7	1.7	1.7	1.7
Victoria	28.0	27.6	28.2	1.3	1.4	1.4	1.6	1.7	1.7
Waco	81.7	83.2	83.0	(¹)	(¹)	(¹)	2.7	3.0	2.9
Wichita Falls	50.8	50.3	50.2	1.5	1.4	1.4	1.5	1.6	1.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Pennsylvania—Continued									
Reading	49.0	46.8	46.2	6.8	6.7	6.8	34.9	35.9	36.3
Scranton—Wilkes-Barre	70.3	70.0	69.5	16.1	16.8	16.8	73.8	74.0	74.5
Sharon	11.4	11.9	11.8	1.9	2.0	2.0	10.5	10.5	10.2
State College	7.9	7.8	7.8	1.6	1.7	1.8	11.8	12.0	12.0
Williamsport	16.1	15.0	15.3	1.8	2.0	1.9	11.9	11.8	12.0
York	60.5	58.0	57.9	7.5	7.4	7.5	43.8	44.8	45.6
Rhode Island									
Pawtucket—Woonsocket—Attleboro	109.0	104.3	104.5	15.3	15.7	15.6	107.2	105.0	104.3
Providence	49.6	47.9	46.3	3.9	4.0	4.0	34.0	34.5	34.6
Providence	70.6	68.4	68.1	10.8	11.3	11.4	73.8	71.8	71.4
South Carolina									
Charleston	390.8	382.8	382.4	64.1	67.0	66.6	342.0	350.1	347.3
Columbia	20.6	21.4	21.5	10.2	10.4	10.2	48.1	53.1	52.4
Columbia	28.4	28.1	28.5	10.9	11.3	11.4	54.5	54.2	54.5
Greenville—Spartanburg	103.4	101.0	100.9	13.2	13.6	13.5	78.6	81.2	81.5
South Dakota									
Rapid City	32.0	32.3	32.3	13.4	13.7	13.9	73.9	76.0	75.8
Rapid City	3.7	3.9	3.8	2.1	2.0	2.0	10.9	11.5	11.0
Sioux Falls	8.2	8.5	8.4	5.2	5.1	5.2	20.0	20.7	21.0
Tennessee									
Chattanooga	527.2	520.3	520.2	116.9	118.7	116.8	513.8	515.4	512.9
Chattanooga	46.5	46.3	46.5	7.7	8.1	8.0	47.1	46.2	46.1
Johnson City—Kingsport—Bristol	55.0	53.3	52.9	6.2	6.3	6.3	38.5	39.3	39.1
Knoxville	51.9	49.5	49.2	10.6	11.1	11.0	70.7	68.4	66.9
Memphis	81.8	82.0	81.9	47.4	47.7	47.7	126.1	127.7	128.0
Nashville	90.4	88.7	89.7	26.7	28.8	28.8	122.0	120.5	120.5
Texas									
Abilene	971.0	964.7	966.4	405.3	420.3	418.0	1,689.3	1,708.9	1,708.3
Abilene	4.9	4.5	4.5	2.6	2.7	2.7	13.3	13.4	13.3
Amarillo	8.8	8.5	8.7	5.7	5.6	5.7	22.2	21.8	21.8
Austin	45.3	45.8	48.0	11.2	11.2	11.2	79.2	77.9	78.0
Beaumont—Port Arthur	24.5	25.1	25.1	9.5	9.7	9.7	32.4	32.8	32.9
Brazoria	18.0	16.6	16.6	2.6	2.6	2.6	11.6	11.9	11.9
Brownsville—Harlingen	10.7	11.1	11.2	3.2	3.2	3.3	20.0	20.4	20.2
Bryan—College Station	3.9	3.7	3.6	1.4	1.5	1.5	11.6	12.3	12.0
Corpus Christi	11.4	11.9	12.2	6.8	6.7	6.6	32.1	32.4	32.5
Dallas	223.8	220.2	220.2	79.3	80.4	80.8	350.0	359.6	361.9
El Paso	41.0	41.5	41.4	10.2	10.7	10.6	52.2	52.9	52.8
Ft. Worth—Arlington	120.4	118.5	118.4	53.2	57.0	57.1	145.2	148.0	145.8
Galveston—Texas City	8.8	8.6	8.7	4.8	5.1	5.3	13.6	14.4	13.9
Houston	163.6	168.3	166.5	106.5	107.5	108.0	367.2	373.4	370.8
Killeen—Temple	8.8	8.7	8.8	2.7	2.5	2.5	16.9	16.5	16.4
Laredo	1.8	1.8	1.8	6.2	6.1	6.1	14.3	14.5	14.5
Longview—Marshall	16.1	18.0	15.9	3.3	3.4	3.3	17.0	17.1	17.1
Lubbock	7.4	7.2	7.2	5.1	5.8	5.6	28.1	28.5	28.7
McAllen—Edinburg—Mission	12.8	13.0	13.2	3.0	3.0	3.0	30.3	31.2	31.3
Midland	2.4	2.4	2.4	2.3	2.2	2.2	11.0	11.1	11.0
Odessa	4.2	4.1	4.1	1.9	1.9	1.9	12.5	12.8	13.0
San Angelo	5.5	5.0	5.1	2.7	2.5	2.5	9.0	8.8	8.7
San Antonio	48.7	45.5	45.2	19.3	19.7	19.7	128.9	132.9	133.5
Sherman—Denison	10.9	10.9	10.8	1.5	1.3	1.3	8.2	8.1	8.0
Texarkana	7.1	7.1	7.1	2.4	2.4	2.4	10.9	10.9	10.7
Tyler	10.7	11.2	11.1	2.7	2.9	2.9	16.2	16.4	16.4
Victoria	3.0	3.1	3.2	1.2	1.3	1.3	7.5	7.8	7.7
Waco	15.9	15.9	16.0	3.5	3.5	3.5	18.6	18.8	18.7
Wichita Falls	8.5	7.9	7.8	2.5	2.6	2.6	11.8	11.9	11.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Pennsylvania—Continued									
Reading	8.9	9.1	9.2	33.1	32.8	33.3	18.1	18.0	18.9
Scranton—Wilkes-Barre	13.2	13.5	13.4	78.3	78.7	78.4	42.8	40.8	42.6
Sharon	1.3	1.4	1.4	12.0	12.3	12.4	5.1	4.9	5.3
State College	1.8	2.0	1.9	10.7	11.0	10.9	23.7	22.7	24.1
Williamsport	2.3	2.4	2.4	10.8	11.1	11.2	7.3	8.8	7.4
York	5.0	5.1	5.1	34.4	35.5	35.3	18.7	18.1	18.5
Rhode Island									
Pawtucket—Woonsocket—Attleboro	27.1	26.4	26.5	125.9	124.8	126.6	58.8	57.4	58.5
Providence	4.0	4.0	3.9	26.6	26.2	25.8	10.0	9.7	9.9
Providence	22.1	21.9	22.0	94.7	95.3	97.6	44.7	43.9	44.8
South Carolina									
Charleston	68.7	72.0	71.7	280.3	296.1	299.1	278.2	283.4	300.9
Columbia	8.3	8.9	8.9	40.5	45.8	45.6	53.9	55.0	55.6
Columbia	18.5	18.2	18.0	47.1	47.6	48.1	65.0	66.8	67.8
Greenville—Spartanburg	12.3	12.4	12.4	63.3	67.5	67.6	42.5	42.6	43.4
South Dakota									
Rapid City	15.9	16.5	16.4	69.0	69.9	69.7	62.8	59.6	62.8
Rapid City	1.5	1.5	1.5	9.3	9.9	9.6	7.3	6.9	7.2
Sioux Falls	7.5	7.8	7.9	19.6	19.6	20.0	8.1	8.2	8.4
Tennessee									
Chattanooga	103.5	103.9	103.0	474.3	487.2	485.1	341.9	345.3	346.2
Chattanooga	12.7	13.3	13.4	40.5	41.4	41.4	33.7	34.5	34.5
Johnson City—Kingsport—Bristol	5.3	5.2	5.2	31.8	34.3	34.8	26.1	26.2	26.3
Knoxville	9.7	10.2	10.3	57.0	58.1	57.8	51.3	51.8	51.9
Memphis	26.0	26.5	26.5	109.2	113.3	112.9	74.2	75.8	77.2
Nashville	32.1	32.2	31.9	131.8	137.8	137.6	69.0	68.2	69.0
Texas									
Abilene	431.8	431.1	430.7	1,634.3	1,669.8	1,679.1	1,241.0	1,260.0	1,281.2
Abilene	2.3	2.2	2.2	14.0	14.4	14.3	8.9	8.9	8.9
Amarillo	4.0	3.8	3.8	17.2	17.8	17.4	14.4	14.9	15.1
Austin	23.8	23.7	23.5	91.8	94.2	93.6	104.6	108.7	107.8
Beaumont—Port Arthur	5.3	5.4	5.4	31.8	34.0	34.0	21.1	21.1	21.2
Brazoria	1.8	1.8	1.8	9.0	9.2	9.1	11.7	11.6	11.9
Brownsville—Harlingen	3.8	3.9	3.8	17.5	17.8	17.9	17.1	17.5	17.7
Bryan—College Station	1.7	1.7	1.7	8.8	9.3	9.4	24.0	22.7	24.8
Corpus Christi	8.3	8.2	8.2	30.0	30.7	30.7	28.4	28.4	28.4
Dallas	129.7	127.5	127.0	353.9	351.9	354.5	159.6	163.4	164.5
El Paso	8.4	8.2	8.2	41.9	42.8	43.0	43.7	43.8	43.9
Ft. Worth—Arlington	27.9	27.5	27.6	123.8	128.7	127.1	73.3	78.9	80.1
Galveston—Texas City	4.4	4.8	4.5	13.8	14.2	14.1	21.8	22.2	22.5
Houston	101.3	102.8	102.8	417.3	433.7	435.0	197.7	204.0	207.6
Killeen—Temple	3.1	3.2	3.2	17.5	17.4	17.4	21.9	22.7	22.8
Laredo	1.8	1.9	1.9	7.2	7.5	7.5	9.5	10.0	10.0
Longview—Marshall	2.7	2.8	2.8	13.3	13.9	13.9	8.7	8.7	8.9
Lubbock	5.5	5.3	5.3	23.9	24.1	24.1	23.3	23.2	23.7
McAllen—Edinburg—Mission	4.3	4.3	4.2	16.3	16.9	17.0	25.7	26.0	26.1
Midland	2.4	2.4	2.4	9.4	9.6	9.7	7.2	7.0	7.2
Odessa	1.6	1.5	1.5	7.8	7.9	7.9	7.8	7.9	7.8
San Angelo	1.7	1.6	1.6	8.7	8.7	8.7	7.3	7.5	7.5
San Antonio	41.3	40.5	40.4	131.9	134.9	135.1	120.4	119.4	121.6
Sherman—Denison	2.0	1.8	1.8	8.6	8.8	8.9	4.4	4.4	4.5
Texarkana	1.8	1.8	1.8	10.4	11.0	11.1	12.9	12.0	12.0
Tyler	3.4	3.3	3.3	15.2	15.5	15.5	9.7	9.5	9.6
Victoria	1.5	1.5	1.5	6.0	5.8	6.0	5.9	5.2	5.4
Waco	5.1	5.1	5.0	22.9	23.5	23.6	13.0	13.4	13.3
Wichita Falls	2.3	2.3	2.2	12.6	12.8	12.8	10.1	9.8	9.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Utah	706.1	736.2	736.8	8.5	8.6	8.6	28.9	29.8	29.1
Provo-Orem	91.2	95.9	96.8	(¹)	(¹)	(¹)	2.9	3.2	3.1
Salt Lake City-Ogden	486.1	499.1	500.3	2.7	2.8	2.8	19.8	20.8	20.5
Vermont	263.0	259.8	258.6	.6	.6	.5	19.4	17.5	16.3
Barre-Montpelier	34.9	34.4	34.2	(¹)	(¹)	(¹)	2.7	2.5	2.5
Burlington	81.5	80.1	81.0	(¹)	(¹)	(¹)	5.7	4.7	4.6
Virginia	2,904.8	2,937.6	2,935.2	14.8	16.6	16.4	199.8	194.0	189.8
Bristol	33.6	33.1	33.5	(¹)	(¹)	(¹)	1.2	1.3	1.3
Charlottesville	73.0	72.7	73.1	(¹)	(¹)	(¹)	4.5	4.2	4.0
Danville	43.9	42.5	42.2	(¹)	(¹)	(¹)	2.4	2.2	2.1
Lynchburg	77.7	77.7	78.0	(¹)	(¹)	(¹)	3.9	4.0	3.9
Norfolk-Virginia Beach-Newport News	591.2	594.8	591.3	(¹)	(¹)	(¹)	38.3	36.9	36.6
Northern Virginia	783.3	776.5	778.4	.6	.5	.5	64.5	53.5	51.8
Richmond-Petersburg	476.2	477.1	479.1	.8	.8	.8	31.0	31.5	31.4
Roanoke	125.9	128.1	128.9	(¹)	(¹)	(¹)	7.9	7.8	7.7
Washington	2,100.0	2,172.6	2,177.9	3.7	4.1	4.1	115.8	128.2	126.1
Seattle	1,077.3	1,107.1	1,110.9	.6	.6	.6	60.5	61.0	59.8
West Virginia	822.8	822.1	827.0	35.3	35.8	35.7	25.7	24.9	25.2
Charleston	109.0	112.9	112.7	1.9	2.0	1.9	4.2	5.7	5.9
Huntington-Ashland	112.3	110.4	111.5	1.4	1.7	1.7	6.7	5.1	5.0
Parkersburg-Marietta	62.2	61.8	62.6	.5	.5	.5	3.8	3.1	3.1
Wheeling	60.6	61.4	62.0	2.2	2.5	2.5	2.2	2.4	2.4
Wisconsin	2,269.0	2,302.9	2,302.3	2.6	2.7	2.6	90.9	89.1	87.6
Appleton-Oshkosh-Neenah	160.2	163.3	163.1	(¹)	(¹)	(¹)	7.8	8.1	8.1
Eau Claire	82.0	82.3	82.7	(¹)	(¹)	(¹)	2.2	2.5	2.4
Green Bay	103.6	106.3	106.2	(¹)	(¹)	(¹)	5.1	6.0	5.9
Janesville-Beloit	59.2	58.8	59.0	(¹)	(¹)	(¹)	2.1	1.9	1.8
Kenosha	40.7	41.5	41.7	(¹)	(¹)	(¹)	1.5	1.5	1.5
La Crosse	55.3	54.5	55.0	(¹)	(¹)	(¹)	2.2	2.0	2.0
Madison	216.9	223.0	224.0	(¹)	(¹)	(¹)	8.1	9.1	9.0
Milwaukee	758.6	769.9	771.4	(¹)	(¹)	(¹)	30.1	29.3	29.0
Racine	77.9	78.3	78.8	(¹)	(¹)	(¹)	3.4	2.5	2.5
Sheboygan	51.7	54.1	53.2	(¹)	(¹)	(¹)	1.4	1.3	1.4
Wausau	54.1	55.2	55.5	(¹)	(¹)	(¹)	2.2	2.3	2.3
Wyoming	197.8	203.7	200.5	17.3	18.1	18.1	11.1	12.2	11.5
Casper	28.3	28.5	28.5	2.3	2.5	2.5	1.6	1.8	1.8
Puerto Rico	831.4	839.5	841.9	.9	.9	.9	43.3	44.8	44.6
Caguas	52.2	52.2	52.8	(¹)	(¹)	(¹)	1.5	1.3	1.3
Mayaguez	59.2	58.2	58.8	(¹)	(¹)	(¹)	2.5	1.8	2.0
Ponce	57.0	60.0	60.1	(¹)	(¹)	(¹)	3.6	3.7	3.6
San Juan	514.1	517.2	518.8	.5	.5	.5	32.3	32.3	32.3
Virgin Islands	37.9	41.2	41.4	(¹)	(¹)	(¹)	2.6	2.9	2.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Utah	103.9	108.0	108.1	42.6	43.2	43.1	169.5	178.3	177.9
Provo-Orem	13.6	13.9	14.0	2.7	2.8	2.6	20.7	21.9	22.2
Salt Lake City-Ogden	67.7	68.9	68.8	32.3	33.1	33.2	121.3	124.1	123.6
Vermont	47.8	44.5	44.4	9.2	11.0	10.8	62.4	61.4	61.5
Barre-Montpelier	4.9	4.8	4.8	.8	.9	.9	7.7	7.3	7.2
Burlington	15.7	15.0	14.9	2.6	3.5	3.5	20.7	20.6	20.6
Virginia	430.5	421.8	415.7	151.7	154.1	154.8	665.0	668.3	670.6
Bristol	11.0	10.1	10.0	1.3	1.2	1.3	8.6	8.9	9.1
Charlottesville	9.1	8.7	8.8	2.7	2.8	2.9	15.1	14.9	15.0
Danville	17.8	16.4	16.0	1.0	1.0	1.0	9.5	9.3	9.6
Lynchburg	23.7	23.5	23.6	3.0	2.6	2.6	17.3	17.5	17.7
Norfolk-Virginia Beach-Newport News	87.6	87.9	67.9	27.1	28.1	28.0	146.3	144.1	143.4
Northern Virginia	35.3	34.8	34.4	54.5	55.3	55.7	174.5	178.3	179.3
Richmond-Petersburg	65.1	63.0	63.0	24.4	24.2	24.4	113.0	111.2	111.9
Roanoke	19.7	19.6	19.8	7.8	7.8	7.9	33.9	34.8	35.4
Washington	371.7	369.5	366.3	111.1	115.4	114.8	511.2	539.5	534.7
Seattle	220.0	218.9	218.5	68.6	71.0	71.3	255.3	269.4	287.0
West Virginia	87.9	86.1	85.7	37.0	36.7	36.6	146.7	147.3	147.1
Charleston	10.6	11.0	10.8	9.1	9.2	9.1	29.1	30.0	30.3
Huntington-Ashland	20.7	20.6	20.5	6.1	6.0	6.0	28.1	28.2	28.4
Parkersburg-Marietta	14.0	13.8	14.1	2.8	2.5	2.5	15.1	15.4	15.3
Wheeling	7.3	7.5	7.8	3.5	3.4	3.4	16.6	17.0	17.0
Wisconsin	555.7	567.2	561.2	102.8	103.0	103.3	540.0	550.0	548.3
Appleton-Oshkosh-Neenah	54.5	54.9	54.1	5.4	5.7	5.7	36.2	37.5	37.6
Eau Claire	11.5	10.7	10.5	3.4	3.8	3.6	17.2	17.3	17.8
Green Bay	24.8	25.4	25.0	7.4	7.8	7.6	26.8	26.4	26.7
Janesville-Beloit	18.2	17.7	17.6	2.4	2.2	2.3	13.6	13.8	13.9
Kenosha	10.1	9.8	9.7	1.5	1.7	1.5	10.8	11.2	11.3
La Crosse	10.8	10.2	10.2	2.3	2.5	2.5	14.5	14.3	14.5
Madison	25.0	26.8	26.3	6.8	6.7	6.7	50.8	51.9	52.7
Milwaukee	173.5	173.1	172.9	37.0	37.2	37.3	174.5	179.3	179.2
Racine	28.3	25.9	28.0	2.3	2.2	2.2	18.1	19.3	19.3
Sheboygan	21.9	22.6	22.4	1.6	1.6	1.6	9.8	10.3	10.1
Wausau	15.3	15.3	15.3	3.1	3.1	3.1	13.9	14.3	14.2
Wyoming	9.3	9.4	9.8	14.8	14.7	14.7	45.0	47.1	45.7
Casper	1.7	1.8	1.8	1.8	1.8	1.8	8.0	8.0	7.9
Puerto Rico	157.4	154.5	154.6	18.5	19.3	19.2	151.6	156.4	157.7
Caguas	15.2	15.1	15.1	.4	.4	.4	10.8	11.5	11.6
Mayaguez	20.3	19.9	19.7	.4	.5	.5	8.3	8.4	8.5
Ponce	10.8	10.4	10.2	2.0	1.7	1.8	9.1	9.0	9.0
San Juan	68.5	67.1	67.5	14.3	14.4	14.2	103.8	106.5	107.5
Virgin Islands	2.1	2.3	2.4	2.1	2.3	2.3	8.6	10.1	10.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Utah	33.5	34.6	34.0	171.4	184.8	184.2	147.8	148.9	151.8
Provo-Orem	2.3	2.4	2.4	34.9	37.2	37.8	14.1	14.7	14.9
Salt Lake City-Ogden	27.4	28.1	28.1	117.1	122.5	123.3	97.8	98.8	98.8
Vermont	12.9	12.8	12.6	66.4	67.1	67.2	44.3	44.9	45.3
Barre-Montpelier	3.1	2.8	2.8	7.9	7.8	7.9	7.8	8.3	8.1
Burlington	4.0	4.2	4.2	19.8	19.5	20.0	12.8	12.6	13.2
Virginia	152.9	156.1	154.4	714.4	750.2	745.9	575.7	576.5	587.6
Bristol	1.2	1.1	1.1	5.1	5.2	5.2	5.2	5.3	5.5
Charlottesville	4.5	4.6	4.8	13.4	13.7	13.8	23.7	23.8	24.2
Danville	1.3	1.3	1.3	8.5	8.8	8.7	5.6	5.5	5.5
Lynchburg	3.7	3.7	3.7	16.5	16.6	16.6	9.6	9.6	9.9
Norfolk-Virginia Beach-Newport News	26.6	27.8	27.1	149.5	154.5	152.9	135.6	135.5	135.4
Northern Virginia	51.7	51.3	51.0	254.1	255.8	255.6	148.1	147.2	150.1
Richmond-Petersburg	39.5	39.8	39.8	106.4	111.3	109.5	98.0	95.3	98.3
Roanoke	8.8	8.9	8.8	32.2	33.2	33.2	15.6	15.8	16.1
Washington	113.9	118.2	117.8	485.1	512.3	512.5	387.5	385.4	401.6
Seattle	72.2	74.2	74.0	257.4	268.8	269.0	142.7	143.2	150.7
West Virginia	24.1	24.5	24.3	139.6	145.9	147.0	126.5	120.9	125.4
Charleston	6.3	6.2	6.2	27.5	28.9	28.8	20.3	19.9	19.9
Huntington-Ashland	3.8	3.9	3.9	24.2	24.7	24.7	19.3	18.2	18.3
Parkersburg-Marietta	2.2	2.2	2.2	14.6	15.1	15.1	9.4	9.4	9.6
Wheeling	2.9	3.1	3.1	16.6	16.7	16.8	9.3	8.8	9.2
Wisconsin	118.7	121.5	121.5	516.2	527.4	526.2	342.3	342.0	351.6
Appleton-Oshkosh-Neenah	7.5	7.7	7.8	31.3	32.3	32.2	17.5	17.1	17.7
Eau Claire	1.9	1.9	1.9	14.2	15.2	15.1	11.5	11.1	11.5
Green Bay	4.0	4.4	4.4	24.6	25.1	25.4	11.0	11.2	11.3
Janesville-Beloit	1.8	1.7	1.7	13.7	13.8	13.9	7.6	7.7	7.9
Kenosha	1.3	1.3	1.3	9.0	9.6	9.6	6.4	6.5	6.6
La Crosse	1.7	1.7	1.7	15.7	16.0	16.2	8.2	7.8	8.1
Madison	16.9	19.4	19.4	48.2	49.0	49.2	59.2	60.3	60.7
Milwaukee	50.6	51.4	51.4	207.0	213.6	213.1	85.4	86.1	88.4
Racine	2.4	2.4	2.4	17.0	17.4	17.7	6.3	6.6	6.7
Sheboygan	2.6	2.4	2.4	9.2	10.5	10.0	5.3	5.4	5.3
Wausau	3.4	3.3	3.3	10.0	10.7	11.0	6.3	6.2	6.3
Wyoming	7.3	7.4	7.4	36.7	39.6	37.0	56.5	55.2	56.3
Casper	1.4	1.4	1.4	6.5	6.5	6.6	5.0	4.9	5.1
Puerto Rico	36.4	35.8	35.8	130.9	135.4	137.0	292.3	292.2	291.8
Caguas	1.3	1.4	1.4	6.5	6.4	6.6	16.5	16.2	16.4
Mayaguez	1.3	1.3	1.3	7.5	7.8	6.1	18.9	18.4	16.5
Ponce	1.9	1.7	1.7	10.6	11.7	11.8	19.1	21.7	22.1
San Juan	29.4	29.5	29.4	93.6	95.9	96.8	173.6	171.0	170.5
Virgin Islands	1.8	1.9	1.9	7.6	8.5	8.6	13.1	13.2	13.4

¹ Combined with construction.

² Not available.

^P = preliminary.

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

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

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private ¹			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989	34.6	9.66	334.24	43.0	13.25	569.75	37.9	13.52	512.41
1990 ^p	34.5	10.03	346.04	44.1	13.65	601.97	38.2	13.73	524.49
Monthly data, not seasonally adjusted									
1989:									
December	34.6	\$9.84	\$340.46	43.7	\$13.46	\$588.20	37.0	\$13.84	\$512.08
1990:									
January	34.1	9.87	336.57	43.6	13.46	586.86	37.6	13.59	510.98
February	34.2	9.91	338.92	43.3	13.46	582.82	37.3	13.59	506.91
March	34.3	9.93	340.60	43.0	13.57	583.51	37.9	13.63	516.58
April	34.4	9.97	342.97	43.1	13.66	588.75	37.3	13.58	506.53
May	34.4	9.97	342.97	43.2	13.56	585.79	38.2	13.68	522.58
June	34.8	9.98	347.30	44.4	13.66	606.50	39.1	13.63	532.93
July	34.9	10.00	349.00	43.6	13.69	596.88	38.3	13.70	524.71
August	34.8	10.00	348.00	44.0	13.63	599.72	39.0	13.74	535.86
September	34.8	10.16	353.57	45.1	13.82	623.28	39.0	13.92	542.88
October	34.3	10.16	348.49	44.6	13.69	610.57	38.0	13.92	528.96
November ^p	34.3	10.17	348.83	45.0	13.78	620.10	38.2	13.82	527.92
December ^p	34.8	10.21	355.31	45.8	13.80	632.04	38.5	13.86	533.61

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages										
1964	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.36
1965	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.27
1966	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.08
1967	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.85
1968	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.89
1969	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.74
1970	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.91
1971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.68
1972	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.42
1973	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.74
1974	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	170.11
1975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.42
1976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.15
1977	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	208.76
1978	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	227.87
1979	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.65
1980	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	267.13
1981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.75
1982	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.23
1983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.25
1984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.78
1985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.08
1986	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.57
1987	41.0	9.91	9.48	408.31	39.2	12.03	471.58	38.1	9.59	365.30
1988	41.1	10.19	9.73	418.81	38.8	12.26	475.69	38.1	9.98	380.24
1989	41.0	10.49	10.02	430.09	38.9	12.61	490.53	38.0	10.39	394.82
1990 ^a	40.8	10.84	10.38	442.27	38.9	12.96	504.14	38.1	10.80	411.48
Monthly data, not seasonally adjusted										
1989:										
December	41.3	\$10.68	\$10.20	\$441.08	38.7	\$12.76	\$493.81	38.2	\$10.63	\$406.07
1990:										
January	40.6	10.60	10.16	430.36	37.8	12.79	483.46	37.8	10.61	401.06
February	40.4	10.68	10.25	431.47	38.4	12.87	494.21	37.8	10.66	402.95
March	40.7	10.75	10.30	437.53	38.7	12.83	496.52	37.9	10.66	404.01
April	39.8	10.75	10.37	427.85	38.9	12.96	504.14	38.1	10.78	410.72
May	40.9	10.81	10.36	442.13	38.9	12.82	498.70	38.0	10.73	407.74
June	41.1	10.85	10.37	445.94	39.4	12.86	506.68	38.2	10.76	411.03
July	40.5	10.88	10.41	440.64	39.4	12.99	511.81	38.3	10.82	414.41
August	40.8	10.82	10.33	441.46	39.2	12.96	508.03	38.1	10.77	410.34
September	41.3	10.94	10.42	451.82	39.2	13.07	512.34	38.3	10.94	419.00
October	40.9	10.95	10.46	447.86	38.6	13.07	504.50	38.1	10.87	414.15
November ^b	40.8	10.98	10.49	447.98	38.7	13.09	506.58	38.0	10.95	416.10
December ^b	41.5	11.09	10.59	460.24	39.0	13.16	513.24	38.4	11.08	425.47

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
	Annual averages								
1964	37.0	\$1.75	\$64.81	37.3	\$2.30	\$85.77	36.1	\$1.94	\$70.05
1965	36.6	1.82	66.65	37.2	2.39	88.85	35.9	2.05	73.60
1966	35.9	1.91	68.50	37.3	2.47	92.21	35.5	2.17	76.92
1967	35.3	2.01	70.86	37.1	2.58	95.70	35.1	2.29	80.30
1968	34.7	2.16	74.93	37.0	2.75	101.70	34.7	2.42	84.08
1969	34.2	2.30	78.67	37.1	2.93	108.56	34.7	2.61	90.62
1970	33.8	2.44	82.31	36.7	3.07	112.79	34.4	2.81	96.52
1971	33.7	2.60	87.51	36.6	3.22	118.02	33.9	3.04	103.04
1972	33.4	2.75	92.03	36.6	3.36	122.94	33.9	3.27	110.62
1973	33.1	2.91	96.45	36.6	3.53	129.34	33.8	3.47	117.49
1974	32.7	3.14	102.55	36.5	3.77	137.68	33.6	3.75	126.22
1975	32.4	3.36	108.63	36.5	4.06	147.89	33.5	4.02	134.73
1976	32.1	3.57	114.56	36.4	4.27	155.51	33.3	4.31	143.53
1977	31.6	3.85	121.54	36.4	4.54	165.42	33.0	4.65	153.59
1978	31.0	4.20	130.14	36.4	4.89	178.03	32.8	4.99	163.89
1979	30.6	4.53	138.83	36.2	5.27	190.92	32.7	5.36	175.36
1980	30.2	4.88	147.24	36.2	5.79	209.68	32.6	5.85	190.98
1981	30.1	5.25	157.99	36.3	6.31	228.73	32.6	6.41	209.16
1982	29.9	5.48	163.83	36.2	6.78	245.68	32.6	6.92	225.87
1983	29.8	5.74	171.13	36.2	7.29	263.68	32.7	7.31	239.04
1984	29.8	5.85	174.47	36.5	7.63	278.04	32.6	7.59	247.25
1985	29.4	5.94	174.81	36.4	7.94	289.20	32.5	7.90	256.49
1986	29.2	6.03	175.80	36.4	8.36	304.49	32.5	8.18	265.93
1987	29.2	6.12	178.80	36.3	8.73	316.37	32.5	8.49	276.03
1988	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
1989	28.9	6.53	188.72	35.8	9.54	341.53	32.6	9.39	306.11
1990 ^p	28.8	6.78	195.26	35.8	9.98	357.28	32.6	9.86	321.44
	Monthly data, not seasonally adjusted								
1989:									
December	29.3	\$6.65	\$194.85	35.6	\$9.73	\$346.39	32.5	\$9.68	\$314.60
1990:									
January	28.1	6.73	189.11	35.6	9.80	348.88	32.4	9.72	314.93
February	28.3	6.72	190.18	35.7	9.87	352.36	32.4	9.75	315.90
March	28.5	6.74	192.09	35.6	9.84	350.30	32.4	9.76	316.22
April	29.0	6.75	195.75	36.1	9.97	359.92	32.6	9.82	320.13
May	28.8	6.75	194.40	35.5	9.90	351.45	32.3	9.77	315.57
June	29.3	6.75	197.78	35.8	9.90	354.42	32.7	9.75	318.83
July	29.7	6.74	200.18	36.2	10.00	362.00	33.0	9.79	323.07
August	29.4	6.75	198.45	35.7	9.96	355.57	32.8	9.78	320.78
September	28.9	6.85	197.97	36.1	10.12	365.33	32.7	9.98	326.35
October	28.4	6.85	194.54	35.5	10.10	358.55	32.4	9.99	323.68
November ^p	28.4	6.87	195.11	35.6	10.12	360.27	32.4	10.05	325.62
December ^p	29.1	6.87	199.92	36.2	10.21	369.60	32.8	10.13	332.26

¹ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a
Total private		34.5	34.6	34.3	34.3	34.8	-	-	-	-	-
Mining		43.8	43.7	44.6	45.0	45.8	-	-	-	-	-
Metal mining	10	42.2	42.7	42.2	42.1	-	-	-	-	-	-
Iron ores	101	38.1	42.1	44.7	42.5	-	-	-	-	-	-
Copper ores	102	46.4	45.9	45.3	45.1	-	-	-	-	-	-
Coal mining	12	44.6	43.8	44.8	43.8	-	-	-	-	-	-
Bituminous coal and lignite mining	122	44.6	43.8	44.8	43.7	-	-	-	-	-	-
Oil and gas extraction	13	43.0	43.8	44.7	45.9	-	-	-	-	-	-
Crude petroleum and natural gas	131	41.8	45.0	41.3	44.5	-	-	-	-	-	-
Oil and gas field services	138	43.7	43.1	46.5	46.6	-	-	-	-	-	-
Nonmetallic minerals, except fuels	14	46.0	43.9	45.4	45.3	-	-	-	-	-	-
Crushed and broken stone	142	46.9	43.8	45.8	46.1	-	-	-	-	-	-
Construction		38.0	37.0	38.0	38.2	38.5	-	-	-	-	-
General building contractors	15	37.7	36.9	37.3	37.5	-	-	-	-	-	-
Residential building construction	152	37.1	36.1	36.2	36.6	-	-	-	-	-	-
Operative builders	153	37.6	37.5	37.2	36.4	-	-	-	-	-	-
Nonresidential building construction	154	38.3	37.7	38.4	38.3	-	-	-	-	-	-
Heavy construction, except building	16	41.9	39.7	41.2	42.2	-	-	-	-	-	-
Highway and street construction	161	40.8	37.3	41.8	42.4	-	-	-	-	-	-
Heavy construction, except highway	162	42.3	40.5	40.8	42.1	-	-	-	-	-	-
Special trade contractors	17	37.1	36.4	37.4	37.4	-	-	-	-	-	-
Plumbing, heating, and air conditioning	171	38.4	38.8	38.6	38.0	-	-	-	-	-	-
Painting and paper hanging	172	36.3	35.4	36.1	36.2	-	-	-	-	-	-
Electrical work	173	39.4	39.2	39.4	38.7	-	-	-	-	-	-
Masonry, stonework, and plastering	174	34.5	33.0	35.1	35.3	-	-	-	-	-	-
Carpentry and floor work	175	35.4	35.1	35.1	35.5	-	-	-	-	-	-
Roofing, siding, and sheet metal work	176	33.6	31.3	34.0	35.1	-	-	-	-	-	-
Manufacturing		41.1	41.3	40.9	40.8	41.5	3.9	3.8	3.8	3.8	3.9
Durable goods		41.5	41.9	41.4	41.2	42.0	3.9	4.0	3.8	3.7	4.0
Lumber and wood products	24	40.1	40.2	40.2	39.4	40.2	3.6	3.5	3.4	3.2	-
Logging	241	39.5	39.6	41.4	38.8	-	4.7	4.1	5.4	4.3	-
Sawmills and planing mills	242	40.9	41.2	41.0	40.3	-	4.1	4.3	4.0	3.7	-
Sawmills and planing mills, general	2421	41.3	41.5	41.4	40.7	-	4.4	4.6	4.4	4.1	-
Hardwood dimension and flooring mills	2426	39.5	40.2	39.6	38.7	-	2.9	3.2	2.7	2.3	-
Millwork, plywood, and structural members	243	40.1	40.5	39.4	39.2	-	3.3	3.2	2.6	2.5	-
Millwork	2431	39.3	39.9	39.2	38.7	-	2.3	2.4	2.2	2.0	-
Wood kitchen cabinets	2434	40.0	39.8	38.7	39.0	-	3.6	3.3	2.3	2.5	-
Hardwood veneer and plywood	2435	41.6	41.9	40.8	39.6	-	3.8	4.2	3.4	3.1	-
Softwood veneer and plywood	2436	42.3	43.1	40.9	41.4	-	5.0	5.1	3.7	4.0	-
Wood containers	244	38.7	38.6	39.6	39.4	-	2.9	3.3	3.3	3.0	-
Wood buildings and mobile homes	245	38.1	36.5	38.8	37.7	-	1.9	1.4	2.1	2.3	-
Mobile homes	2451	37.9	37.0	38.6	37.3	-	1.6	1.4	2.1	2.1	-
Miscellaneous wood products	249	40.5	41.2	40.3	39.9	-	3.4	3.6	3.1	3.2	-
Furniture and fixtures	25	39.8	40.2	39.2	38.9	39.8	2.8	2.9	2.6	2.3	-
Household furniture	251	39.0	39.5	38.3	37.8	-	2.3	2.6	2.2	1.7	-
Wood household furniture	2511	39.8	39.7	38.9	38.5	-	2.9	2.8	2.4	1.9	-
Upholstered household furniture	2512	37.9	39.2	37.2	36.7	-	1.7	2.5	1.8	1.2	-
Metal household furniture	2514	39.9	41.4	40.6	39.8	-	2.7	3.3	2.9	2.5	-
Mattresses and bedspreads	2515	38.9	38.5	37.8	37.3	-	2.2	2.3	1.8	1.4	-
Office furniture	252	41.0	41.0	40.8	39.9	-	3.0	3.0	2.9	2.9	-
Public building and related furniture	253	40.8	41.7	40.5	41.4	-	4.0	4.0	3.5	3.5	-
Partitions and fixtures	254	41.4	41.1	41.1	40.8	-	4.0	3.5	3.7	3.6	-
Miscellaneous furniture and fixtures	259	40.4	40.8	39.1	40.0	-	3.3	3.3	2.3	2.8	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Total private		\$9.81	\$9.84	\$10.16	\$10.17	\$10.21	\$338.45	\$340.46	\$348.49	\$348.83	\$355.31
Mining		13.27	13.46	13.69	13.78	13.80	581.23	588.20	610.57	620.10	632.04
Metal mining	10	13.62	13.45	14.43	14.36	-	574.76	574.32	608.95	604.56	-
Iron ores	101	14.81	13.95	15.26	15.39	-	564.26	587.30	682.12	654.08	-
Copper ores	102	11.90	11.83	12.89	12.93	-	552.16	543.00	583.92	583.14	-
Coal mining	12	16.52	16.50	16.73	16.83	-	736.79	722.70	749.50	737.15	-
Bituminous coal and lignite mining	122	16.64	16.64	16.87	16.98	-	742.14	728.83	755.78	742.03	-
Oil and gas extraction	13	12.27	12.66	12.84	13.01	-	527.61	554.51	573.95	597.16	-
Crude petroleum and natural gas	131	15.51	15.95	16.28	16.49	-	648.32	717.75	672.36	733.81	-
Oil and gas field services	138	10.55	10.76	11.25	11.30	-	461.04	463.76	523.13	526.58	-
Nonmetallic minerals, except fuels	14	11.43	11.44	11.72	11.73	-	525.78	502.22	532.09	531.37	-
Crushed and broken stone	142	10.81	10.62	11.30	11.24	-	506.99	465.16	517.54	518.16	-
Construction		13.69	13.84	13.92	13.82	13.86	520.22	512.08	528.96	527.92	533.61
General building contractors	15	12.87	13.00	13.10	13.02	-	485.20	479.70	488.63	488.25	-
Residential building construction	152	12.23	12.40	12.25	12.12	-	453.73	447.64	443.45	443.59	-
Operative builders	153	12.23	12.51	13.39	13.41	-	459.85	469.13	498.11	488.12	-
Nonresidential building construction	154	13.52	13.60	13.87	13.83	-	517.82	512.72	532.61	529.69	-
Heavy construction, except building	16	13.38	13.42	13.68	13.48	-	560.62	532.77	563.62	568.86	-
Highway and street construction	161	13.06	12.82	13.42	13.20	-	532.85	478.19	560.96	559.68	-
Heavy construction, except highway	162	13.51	13.61	13.82	13.61	-	571.47	551.21	563.86	572.98	-
Special trade contractors	17	14.11	14.30	14.31	14.24	-	523.48	520.52	535.19	532.58	-
Plumbing, heating, and air conditioning	171	14.32	14.45	14.62	14.49	-	549.89	560.66	564.33	550.62	-
Painting and paper hanging	172	13.16	13.30	12.99	12.88	-	477.71	470.82	468.94	466.26	-
Electrical work	173	15.07	15.09	15.24	15.22	-	593.76	591.53	600.46	589.01	-
Masonry, stonework, and plastering	174	14.13	14.28	14.29	14.12	-	487.49	471.24	501.58	498.44	-
Carpentry and floor work	175	14.29	14.54	14.00	14.04	-	505.87	510.35	491.40	498.42	-
Roofing, siding, and sheet metal work	176	12.33	12.66	12.33	12.30	-	414.29	396.26	419.22	431.73	-
Manufacturing		10.59	10.68	10.95	10.98	11.09	435.25	441.08	447.86	447.98	460.24
Durable goods		11.11	11.19	11.50	11.48	11.62	461.07	468.86	476.10	472.98	488.04
Lumber and wood products	24	8.96	9.01	9.15	9.14	9.20	359.30	362.20	367.83	360.12	369.84
Logging	241	11.09	11.23	11.46	11.27	-	438.06	444.71	474.44	437.28	-
Sawmills and planing mills	242	9.15	9.20	9.20	9.19	-	374.24	379.04	377.20	370.36	-
Sawmills and planing mills, general	2421	9.51	9.56	9.55	9.53	-	392.76	396.74	395.37	387.87	-
Hardwood dimension and flooring mills	2426	7.42	7.47	7.58	7.59	-	293.09	300.29	300.17	293.73	-
Millwork, plywood, and structural members	243	8.86	8.89	9.07	9.16	-	355.29	360.05	357.36	359.07	-
Millwork	2431	9.04	9.03	9.38	9.47	-	355.27	360.30	367.70	366.49	-
Wood kitchen cabinets	2434	8.41	8.40	8.52	8.64	-	336.40	334.32	329.72	336.96	-
Hardwood veneer and plywood	2435	7.45	7.55	7.78	7.75	-	309.92	316.35	317.42	306.90	-
Softwood veneer and plywood	2436	10.22	10.20	10.31	10.35	-	432.31	439.62	421.68	428.49	-
Wood containers	244	6.59	6.71	6.69	6.66	-	255.03	259.01	264.92	262.40	-
Wood buildings and mobile homes	245	8.44	8.51	8.70	8.74	-	321.56	310.62	337.56	329.50	-
Mobile homes	2451	8.47	8.56	8.78	8.77	-	321.01	316.72	338.91	327.12	-
Miscellaneous wood products	249	8.08	8.12	8.29	8.39	-	327.24	334.54	334.09	334.76	-
Furniture and fixtures	25	8.41	8.43	8.62	8.65	8.75	334.72	338.89	337.90	336.49	348.25
Household furniture	251	7.76	7.81	7.96	7.96	-	302.64	308.50	304.87	300.89	-
Wood household furniture	2511	7.29	7.35	7.47	7.45	-	290.14	291.80	290.58	286.83	-
Upholstered household furniture	2512	8.48	8.54	8.72	8.69	-	321.39	334.77	324.38	318.92	-
Metal household furniture	2514	7.83	7.87	8.08	8.22	-	312.42	325.82	328.05	327.16	-
Mattresses and bedsprings	2515	8.21	8.07	8.12	8.25	-	319.37	310.70	306.94	307.73	-
Office furniture	252	9.52	9.51	9.74	9.77	-	390.32	389.91	397.39	389.82	-
Public building and related furniture	253	8.87	8.92	9.19	9.24	-	361.90	371.96	372.20	382.54	-
Partitions and fixtures	254	9.76	9.70	9.79	9.86	-	404.06	398.67	402.37	402.29	-
Miscellaneous furniture and fixtures	259	8.63	8.68	8.98	9.05	-	348.65	354.14	351.12	362.00	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
		Durable goods—Continued									
Stone, clay, and glass products	32	42.6	41.4	41.9	42.0	41.9	5.2	4.6	4.9	4.7	-
Flat glass	321	42.9	43.8	44.2	44.3	-	5.1	6.3	5.8	5.9	-
Glass and glassware, pressed or blown	322	41.9	41.4	41.8	42.0	-	4.6	4.7	4.6	4.4	-
Glass containers	3221	42.0	41.7	42.2	42.3	-	5.5	5.6	5.6	5.4	-
Pressed and blown glass, nec	3229	41.7	41.0	41.3	41.6	-	3.6	3.7	3.4	3.4	-
Products of purchased glass	323	42.9	41.5	40.9	40.7	-	4.1	3.4	3.3	3.0	-
Cement, hydraulic	324	43.0	41.6	42.1	42.8	-	4.2	3.3	3.9	4.1	-
Structural clay products	325	41.7	41.2	40.0	40.1	-	3.6	3.4	3.1	3.1	-
Pottery and related products	326	40.9	40.6	40.2	40.5	-	3.5	3.4	3.1	3.0	-
Concrete, gypsum, and plaster products	327	43.2	40.9	42.9	43.0	-	6.5	5.1	6.3	6.0	-
Concrete block and brick	3271	43.4	41.8	44.1	42.9	-	6.1	5.0	6.6	6.2	-
Concrete products, nec	3272	43.1	42.5	43.1	42.8	-	6.1	5.5	5.9	5.5	-
Ready-mixed concrete	3273	42.4	38.5	42.1	42.8	-	6.4	4.2	6.2	6.3	-
Misc. nonmetallic mineral products	329	43.0	43.1	41.7	41.7	-	5.4	5.5	4.8	4.8	-
Abrasive products	3291	42.4	43.9	40.8	41.0	-	3.6	3.9	3.9	3.7	-
Asbestos products	3292	42.8	42.2	40.1	39.0	-	5.8	5.8	2.7	1.8	-
Primary metal industries	33	42.7	43.0	42.8	42.7	43.3	4.9	4.9	5.1	5.1	-
Blast furnaces and basic steel products	331	43.0	43.2	43.5	43.5	44.2	5.2	5.0	5.9	5.7	-
Blast furnaces and steel mills	3312	43.4	43.4	43.8	44.0	-	5.4	5.1	6.1	6.1	-
Steel pipe and tubes	3317	43.4	43.5	44.2	43.1	-	5.3	5.6	5.8	5.0	-
Iron and steel foundries	332	41.9	42.3	42.4	41.9	-	4.3	4.4	4.7	4.5	-
Gray and ductile iron foundries	3321	41.8	42.0	42.7	41.7	-	4.3	4.1	4.8	4.3	-
Malleable iron foundries	3322	41.5	41.6	43.3	43.2	-	3.5	4.0	4.9	5.6	-
Steel foundries, nec	3325	41.4	42.6	41.5	41.6	-	4.1	5.2	4.7	4.7	-
Primary nonferrous metals	333	43.9	45.0	43.1	43.9	-	4.6	4.9	4.8	5.5	-
Primary aluminum	3334	43.5	44.0	42.9	43.2	-	5.0	5.0	5.1	5.7	-
Nonferrous rolling and drawing	335	43.9	44.0	42.7	42.7	-	6.0	5.9	5.6	5.5	-
Copper rolling and drawing	3351	43.8	43.7	41.5	41.1	-	5.5	5.5	5.4	5.1	-
Aluminum sheet, plate, and foil	3353	45.5	45.5	45.2	44.9	-	8.1	7.2	8.9	8.6	-
Nonferrous wire drawing and insulating	3357	42.4	42.2	41.8	41.9	-	4.9	4.8	4.7	4.7	-
Nonferrous foundries (castings)	336	40.5	41.2	41.0	40.8	-	3.3	3.4	3.2	3.2	-
Aluminum foundries	3365	41.1	41.7	41.3	41.7	-	3.3	3.5	3.3	3.7	-
Fabricated metal products	34	41.8	42.0	41.4	41.3	42.2	3.9	4.0	3.8	3.6	-
Metal cans and shipping containers	341	43.4	44.4	42.7	43.1	-	5.3	5.2	5.2	5.1	-
Metal cans	3411	43.6	44.9	43.2	43.6	-	5.3	5.2	5.3	5.3	-
Cutlery, handtools, and hardware	342	41.6	42.1	40.6	40.7	-	3.3	3.5	2.8	2.8	-
Hand and edge tools, and blades and handsaws	3423,5	41.7	41.7	40.0	39.7	-	3.6	3.6	2.6	2.4	-
Hardware, nec	3429	41.0	41.8	40.4	40.6	-	2.8	3.0	2.7	2.6	-
Plumbing and heating, except electric	343	41.8	41.8	40.2	40.6	-	3.7	3.4	2.8	3.1	-
Plumbing fixture fittings and trim	3432	40.2	40.8	38.3	39.3	-	2.3	2.4	1.9	2.5	-
Heating equipment, except electric	3433	42.9	42.0	41.3	41.6	-	4.4	3.9	3.4	3.6	-
Fabricated structural metal products	344	41.7	41.5	40.9	41.1	-	4.0	4.0	3.5	3.5	-
Fabricated structural metal	3441	42.6	42.3	41.8	41.8	-	4.7	4.6	4.1	4.1	-
Metal doors, sash, and trim	3442	39.8	39.3	39.2	39.7	-	2.4	2.2	2.3	2.2	-
Fabricated plate work (boiler shops)	3443	43.2	43.1	42.4	42.6	-	4.8	5.3	4.4	4.3	-
Sheet metal work	3444	41.1	41.4	40.5	40.3	-	3.3	3.6	3.2	3.1	-
Architectural metal work	3446	39.8	40.3	39.3	39.8	-	4.4	4.0	2.7	3.1	-
Screw machine products, bolts, etc	345	42.3	42.6	42.3	41.8	-	4.9	4.7	4.8	4.4	-
Screw machine products	3451	40.7	41.0	40.6	40.3	-	3.8	3.5	3.4	3.2	-
Bolts, nuts, rivets, and washers	3452	44.0	44.3	44.1	43.4	-	6.1	6.0	6.2	5.7	-
Metal forgings and stampings	346	41.9	42.2	42.5	41.7	-	4.0	3.8	4.3	3.6	-
Iron and steel forgings	3462	41.8	42.6	42.2	42.2	-	3.9	4.1	4.1	3.8	-
Automotive stampings	3465	42.9	42.6	43.2	41.4	-	4.5	3.8	4.7	3.6	-
Metal stampings, nec	3469	40.6	41.3	41.5	41.4	-	3.4	3.5	3.7	3.3	-
Metal services, nec	347	41.3	41.5	41.2	41.1	-	3.9	4.0	4.0	3.9	-
Plating and polishing	3471	40.7	40.8	40.6	40.4	-	3.4	3.4	3.3	3.3	-
Metal coating and allied services	3479	42.3	42.7	42.2	42.2	-	4.7	5.1	5.3	4.9	-
Ordnance and accessories, nec	348	41.5	42.6	40.8	40.7	-	3.2	3.7	3.7	3.9	-
Ammunition, except for small arms, nec	3483	40.4	41.2	41.3	41.4	-	2.9	3.3	3.2	3.7	-
Misc. fabricated metal products	349	41.7	41.8	41.4	41.4	-	3.5	3.9	3.7	3.6	-
Valves and pipe fittings, nec	3494	41.6	40.9	42.9	44.1	-	3.5	3.7	4.1	4.5	-
Misc. fabricated wire products	3496	40.9	40.8	40.7	40.3	-	3.3	3.6	3.3	3.4	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Durable goods—Continued											
Stone, clay, and glass products	32	\$10.95	\$10.96	\$11.22	\$11.27	\$11.34	\$466.47	\$453.74	\$470.12	\$473.34	\$475.15
Flat glass	321	14.64	14.96	14.84	15.43	-	628.06	655.25	655.93	683.55	-
Glass and glassware, pressed or blown	322	12.03	12.17	12.53	12.52	-	504.06	503.84	523.75	525.84	-
Glass containers	3221	12.55	12.65	13.27	13.25	-	527.10	527.51	559.99	560.48	-
Pressed and blown glass, nec	3229	11.46	11.64	11.71	11.71	-	477.88	477.24	483.62	487.14	-
Products of purchased glass	323	9.68	9.47	9.78	9.91	-	415.27	393.01	400.00	403.34	-
Cement, hydraulic	324	14.03	13.67	13.86	14.31	-	603.29	568.67	583.51	612.47	-
Structural clay products	325	9.44	9.45	9.65	9.62	-	393.65	389.34	386.00	385.76	-
Pottery and related products	326	9.48	9.48	9.59	9.57	-	387.73	384.89	385.52	387.59	-
Concrete, gypsum, and plaster products	327	10.72	10.65	10.93	10.91	-	463.10	435.59	468.90	469.13	-
Concrete block and brick	3271	9.56	9.36	9.83	9.50	-	414.90	391.25	433.50	407.55	-
Concrete products, nec	3272	9.64	9.62	9.89	9.78	-	415.48	408.85	426.26	418.58	-
Ready-mixed concrete	3273	11.57	11.64	11.78	11.84	-	490.57	448.14	495.94	506.75	-
Misc. nonmetallic mineral products	329	11.48	11.53	11.71	11.75	-	493.64	496.94	488.31	489.98	-
Abrasive products	3291	10.37	10.34	10.58	10.56	-	439.69	453.93	431.66	432.96	-
Asbestos products	3292	10.90	11.04	10.82	11.07	-	466.52	465.89	433.88	431.73	-
Primary metal industries	33	12.57	12.59	13.06	13.13	13.25	536.74	541.37	558.97	560.65	573.73
Blast furnaces and basic steel products	331	14.50	14.43	15.04	15.14	15.24	623.50	623.38	654.24	658.59	673.61
Blast furnaces and steel mills	3312	15.25	15.15	15.83	15.93	-	661.85	657.51	693.35	700.92	-
Steel pipe and tubes	3317	11.55	11.65	12.07	12.03	-	501.27	506.78	533.49	518.49	-
Iron and steel foundries	332	11.20	11.24	11.70	11.60	-	469.28	475.45	496.08	486.04	-
Gray and ductile iron foundries	3321	11.67	11.65	12.15	12.04	-	487.81	489.30	518.81	502.07	-
Malleable iron foundries	3322	12.30	12.32	12.55	12.33	-	510.45	512.51	543.42	532.66	-
Steel foundries, nec	3325	10.61	10.87	11.11	11.09	-	439.25	463.06	461.07	461.34	-
Primary nonferrous metals	333	14.08	14.14	14.58	14.77	-	618.11	636.30	628.40	648.40	-
Primary aluminum	3334	14.42	14.79	14.67	14.79	-	627.27	650.76	629.34	638.93	-
Nonferrous rolling and drawing	335	11.97	12.00	12.40	12.48	-	525.48	528.00	529.48	532.90	-
Copper rolling and drawing	3351	11.05	11.18	11.64	11.66	-	483.99	488.57	483.06	479.23	-
Aluminum sheet, plate, and foil	3353	14.70	14.94	15.31	15.48	-	668.85	679.77	692.01	695.05	-
Nonferrous wire drawing and insulating	3357	11.87	11.76	12.25	12.16	-	503.29	496.27	512.05	509.50	-
Nonferrous foundries (castings)	336	10.00	10.09	10.37	10.44	-	405.00	415.71	425.17	425.95	-
Aluminum foundries	3365	9.44	9.60	9.96	10.21	-	387.98	400.32	411.35	425.76	-
Fabricated metal products	34	10.65	10.72	10.95	10.94	11.06	445.17	450.24	453.33	451.82	466.73
Metal cans and shipping containers	341	13.77	13.92	14.12	14.24	-	597.62	618.05	602.92	613.74	-
Metal cans	3411	14.60	14.78	14.91	15.02	-	636.56	663.62	644.11	654.87	-
Cutlery, handtools, and hardware	342	10.57	10.64	10.81	10.67	-	439.71	447.94	438.89	434.27	-
Hand and edge tools, and blades and handsaws	3423,5	9.83	9.86	10.06	10.09	-	409.91	411.16	402.40	400.57	-
Hardware, nec	3429	10.90	10.99	11.04	10.74	-	446.90	459.38	446.02	436.04	-
Plumbing and heating, except electric	343	9.56	9.61	9.89	9.89	-	399.61	401.70	397.58	401.53	-
Plumbing fixture fittings and trim	3432	9.10	9.13	9.55	9.60	-	365.82	372.50	365.77	377.28	-
Heating equipment, except electric	3433	9.45	9.58	9.74	9.78	-	405.41	402.36	402.26	406.85	-
Fabricated structural metal products	344	10.01	10.12	10.25	10.32	-	417.42	419.98	419.23	424.15	-
Fabricated structural metal	3441	10.43	10.37	10.33	10.38	-	444.32	438.65	431.79	433.88	-
Metal doors, sash, and trim	3442	8.38	8.50	8.61	8.63	-	333.52	334.05	337.51	342.61	-
Fabricated plate work (boiler shops)	3443	10.85	10.93	11.12	11.23	-	468.72	471.08	471.49	478.40	-
Sheet metal work	3444	10.15	10.38	10.59	10.62	-	417.17	429.73	428.90	427.99	-
Architectural metal work	3446	9.45	9.62	9.94	9.98	-	376.11	387.69	390.64	397.20	-
Screw machine products, bolts, etc	345	10.41	10.51	10.87	10.85	-	440.34	447.73	459.80	453.53	-
Screw machine products	3451	9.81	9.81	10.10	10.11	-	399.27	402.21	410.06	407.43	-
Bolts, nuts, rivets, and washers	3452	10.99	11.19	11.62	11.58	-	483.56	495.72	512.44	502.57	-
Metal forgings and stampings	346	12.66	12.64	12.93	12.83	-	530.45	533.41	549.53	535.01	-
Iron and steel forgings	3462	13.10	13.16	12.99	12.85	-	547.58	560.62	548.18	542.27	-
Automotive stampings	3465	14.29	14.19	14.55	14.51	-	613.04	604.49	628.56	600.71	-
Metal stampings, nec	3469	9.92	10.00	10.38	10.37	-	402.75	413.00	430.77	429.32	-
Metal services, nec	347	8.69	8.75	9.11	9.09	-	358.90	363.13	375.33	373.60	-
Plating and polishing	3471	8.59	8.68	9.02	9.01	-	349.61	354.14	366.21	364.00	-
Metal coating and allied services	3479	8.88	8.88	9.26	9.23	-	375.62	379.18	390.77	389.51	-
Ordnance and accessories, nec	348	11.77	11.79	12.05	12.19	-	488.46	502.25	491.64	496.13	-
Ammunition, except for small arms, nec	3483	11.70	11.47	11.82	11.95	-	472.68	472.56	488.17	494.73	-
Misc. fabricated metal products	349	10.04	10.13	10.29	10.34	-	418.67	423.43	426.01	428.08	-
Valves and pipe fittings, nec	3494	10.72	10.75	10.50	10.54	-	445.95	439.68	450.45	464.81	-
Misc. fabricated wire products	3496	8.55	8.75	8.95	9.04	-	349.70	357.00	364.27	364.31	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a
		Durable goods—Continued									
Industrial machinery and equipment	35	42.4	43.0	42.0	42.0	42.9	4.3	4.7	4.0	4.0	-
Engines and turbines	351	43.4	44.1	42.3	42.6	-	4.3	5.7	4.1	4.6	-
Turbines and turbine generator sets	3511	46.7	46.5	44.7	46.8	-	7.6	8.2	7.1	8.3	-
Internal combustion engines, nec	3519	42.2	43.3	41.4	40.9	-	3.2	4.8	2.9	3.2	-
Farm and garden machinery	352	41.2	42.7	41.0	40.7	-	3.4	4.3	3.0	2.8	-
Farm machinery and equipment	3523	41.2	42.9	40.9	40.5	-	3.7	4.8	3.3	2.9	-
Construction and related machinery	353	42.9	43.6	43.0	43.2	-	4.3	4.8	4.0	4.2	-
Construction machinery	3531	42.6	42.8	42.0	41.5	-	3.8	3.7	2.5	2.2	-
Mining machinery	3532	42.6	43.1	41.9	41.5	-	4.6	5.1	4.2	3.7	-
Oil and gas field machinery	3533	44.3	47.2	47.7	49.5	-	5.4	7.0	7.1	8.2	-
Conveyors and conveying equipment	3535	42.6	43.4	41.9	41.7	-	5.1	5.6	4.5	4.7	-
Industrial trucks and tractors	3537	41.3	41.9	40.8	40.5	-	3.2	3.8	2.6	2.8	-
Metalworking machinery	354	43.2	43.8	42.8	42.6	-	5.2	5.4	4.8	4.8	-
Machine tools, metal cutting types	3541	43.6	44.6	41.5	41.9	-	4.9	5.5	4.1	4.1	-
Machine tools, metal forming types	3542	44.9	45.5	42.7	43.9	-	6.6	6.8	4.4	5.1	-
Special dies, tools, jigs, and fixtures	3544	43.7	44.2	43.7	43.1	-	5.9	6.1	6.0	5.8	-
Machine tool accessories	3545	41.9	42.5	41.2	41.5	-	4.4	4.6	3.5	3.7	-
Power driven handtools	3546	42.8	43.4	42.3	42.6	-	3.8	4.0	3.3	4.2	-
Special industry machinery	355	42.2	43.0	41.4	41.8	-	4.3	4.9	3.6	3.9	-
Textile machinery	3552	42.7	43.8	42.2	41.9	-	4.0	4.4	3.4	3.1	-
Printing trades machinery	3555	39.8	40.7	36.9	38.8	-	4.4	4.9	2.4	3.7	-
Food products machinery	3556	42.7	43.1	41.2	42.2	-	4.5	4.8	3.9	4.4	-
General industrial machinery	356	42.4	42.9	42.0	42.3	-	4.2	4.6	4.2	4.3	-
Pumps and pumping equipment	3561	40.4	41.9	41.2	42.0	-	3.4	4.2	4.1	4.6	-
Ball and roller bearings	3562	42.8	43.2	43.7	43.7	-	4.8	5.2	5.9	5.5	-
Air and gas compressors	3563	44.9	43.7	44.7	44.6	-	5.1	5.2	4.7	5.4	-
Blowers and fans	3564	41.3	42.0	39.6	40.8	-	2.7	3.4	2.5	3.3	-
Speed changers, drives, and gears	3566	42.5	44.0	41.2	42.0	-	4.6	5.4	5.1	5.4	-
Power transmission equipment, nec	3568	43.6	44.4	41.5	41.7	-	5.2	5.4	3.8	3.4	-
Computer and office equipment	357	42.6	42.9	42.1	42.2	-	3.8	4.1	3.3	3.4	-
Electronic computers	3571	42.3	43.1	41.6	42.1	-	4.1	4.8	3.3	3.7	-
Computer terminals, calculators, and office machines, nec	3575,8,9	41.3	41.6	41.4	41.7	-	2.4	2.6	3.2	3.5	-
Refrigeration and service machinery	358	40.7	41.1	39.5	40.0	-	2.8	3.0	2.3	2.4	-
Refrigeration and heating equipment	3585	40.7	41.0	39.4	40.0	-	2.9	3.0	2.3	2.3	-
Misc. industrial and commercial machinery	359	42.6	42.8	42.2	41.9	-	4.8	4.9	4.6	4.5	-
Carburetors, pistons, rings, valves	3592	41.3	41.8	41.9	40.8	-	3.6	4.1	4.2	4.0	-
Scales, balances, and industrial machinery, nec	3596,9	42.4	42.6	42.1	41.8	-	4.8	4.7	4.7	4.4	-
Electronic and other electrical equipment	36	41.2	41.5	40.9	41.0	42.0	3.3	3.5	3.3	3.6	-
Electric distribution equipment	361	41.9	42.5	41.9	42.3	-	2.9	3.6	3.2	3.7	-
Transformers, except electronic	3612	41.8	42.7	42.0	42.6	-	3.1	3.8	3.5	4.1	-
Switchgear and switchboard apparatus	3613	42.0	42.3	41.8	41.9	-	2.7	3.3	2.8	3.3	-
Electrical industrial apparatus	362	41.7	42.5	41.8	42.2	-	3.5	3.9	3.3	3.5	-
Motors and generators	3621	41.4	42.6	40.8	41.2	-	3.7	3.9	3.1	3.2	-
Relays and industrial controls	3625	41.9	41.9	42.7	43.3	-	2.9	3.7	3.3	3.6	-
Household appliances	363	39.1	37.9	39.8	38.5	-	2.3	2.4	2.2	2.4	-
Household refrigerators and freezers	3632	36.5	32.4	37.9	32.4	-	1.4	1.3	1.7	1.4	-
Household laundry equipment	3633	37.9	40.5	39.9	39.8	-	1.0	2.5	2.0	2.0	-
Electric housewares and fans	3634	41.7	40.2	40.8	42.3	-	3.2	2.6	2.3	3.0	-
Electric lighting and wiring equipment	364	40.7	40.7	40.0	40.1	-	3.2	3.3	3.0	3.1	-
Electric lamps	3641	41.5	39.1	41.8	41.5	-	3.2	2.9	3.8	3.5	-
Current-carrying wiring devices	3643	40.6	40.7	39.2	39.8	-	3.2	3.2	2.7	2.9	-
Noncurrent-carrying wiring devices	3644	42.1	43.7	41.2	41.2	-	3.5	3.9	2.2	2.3	-
Residential lighting fixtures	3645	39.1	39.1	37.9	36.8	-	2.8	2.9	2.7	1.9	-
Household audio and video equipment	365	40.3	41.2	41.1	40.9	-	3.3	3.2	3.6	3.5	-
Household audio and video equipment	3651	39.7	41.2	41.7	41.2	-	2.6	2.7	3.5	2.9	-
Communications equipment	366	43.2	44.3	42.1	43.5	-	3.2	3.8	3.6	4.5	-
Telephone and telegraph apparatus	3661	44.6	45.8	44.0	46.0	-	3.5	4.1	4.6	6.2	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Durable goods—Continued											
Industrial machinery and equipment	35	\$11.53	\$11.62	\$11.90	\$11.96	\$12.11	\$488.87	\$499.66	\$499.80	\$502.32	\$519.52
Engines and turbines	351	14.29	14.51	14.75	14.89	-	620.19	639.89	623.93	634.31	-
Turbines and turbine generator sets	3511	14.81	14.93	15.19	15.23	-	691.63	694.25	678.99	712.76	-
Internal combustion engines, nec	3519	14.09	14.35	14.56	14.74	-	594.60	621.36	602.78	602.87	-
Farm and garden machinery	352	10.82	10.84	11.22	11.08	-	445.78	462.87	460.02	450.96	-
Farm machinery and equipment	3523	11.84	11.95	12.34	12.20	-	487.81	512.66	504.71	494.10	-
Construction and related machinery	353	11.65	11.79	12.03	12.07	-	499.79	514.04	517.29	521.42	-
Construction machinery	3531	12.99	13.13	13.74	13.80	-	553.37	561.96	577.08	572.70	-
Mining machinery	3532	11.73	11.69	11.95	12.08	-	499.70	503.84	500.71	501.32	-
Oil and gas field machinery	3533	11.19	11.47	11.29	11.39	-	495.72	541.38	538.53	563.81	-
Conveyors and conveying equipment	3535	10.46	10.66	10.86	10.95	-	445.60	462.64	455.03	456.62	-
Industrial trucks and tractors	3537	10.16	10.24	10.53	10.53	-	419.61	429.06	429.62	426.47	-
Metalworking machinery	354	12.02	12.08	12.42	12.43	-	519.26	529.10	531.58	529.52	-
Machine tools, metal cutting types	3541	11.85	11.91	12.42	12.40	-	516.66	531.19	515.43	519.56	-
Machine tools, metal forming types	3542	12.34	12.34	12.52	12.61	-	554.07	561.47	534.60	553.58	-
Special dies, tools, jigs, and fixtures	3544	12.74	12.79	13.04	13.02	-	556.74	565.32	569.85	561.16	-
Machine tool accessories	3545	10.80	10.77	11.07	11.10	-	452.52	457.73	456.08	460.65	-
Power driven handtools	3546	9.38	9.60	10.08	10.24	-	401.46	416.64	426.38	436.22	-
Special industry machinery	355	11.74	11.82	11.88	12.02	-	495.43	508.26	491.83	502.44	-
Textile machinery	3552	9.85	9.94	10.13	10.21	-	420.60	435.37	427.49	427.80	-
Printing trades machinery	3555	13.47	13.68	13.59	13.86	-	536.11	556.78	501.47	537.77	-
Food products machinery	3556	11.63	11.71	11.86	11.82	-	496.60	504.70	488.63	498.80	-
General industrial machinery	356	10.98	11.08	11.52	11.56	-	465.55	475.33	483.84	488.99	-
Pumps and pumping equipment	3561	11.30	11.48	12.12	12.15	-	456.52	481.01	499.34	510.30	-
Ball and roller bearings	3562	11.58	11.67	12.36	12.33	-	495.62	504.14	540.13	538.82	-
Air and gas compressors	3563	11.22	11.07	11.88	12.01	-	503.78	483.76	531.04	535.65	-
Blowers and fans	3564	9.82	9.96	10.06	10.08	-	405.57	418.32	398.38	411.26	-
Speed changers, drives, and gears	3566	11.53	11.69	11.87	12.04	-	490.03	514.36	489.04	505.68	-
Power transmission equipment, nec	3568	10.59	10.75	10.97	10.96	-	461.72	477.30	455.26	457.03	-
Computer and office equipment	357	11.06	11.09	11.51	11.83	-	471.16	475.76	484.57	499.23	-
Electronic computers	3571	11.66	11.69	11.97	12.46	-	493.22	503.84	497.95	524.57	-
Computer terminals, calculators, and office machines, nec	3575,8,9	10.07	10.04	11.26	11.45	-	415.89	417.66	466.16	477.47	-
Refrigeration and service machinery	358	10.72	10.82	11.11	11.13	-	436.30	444.70	438.85	445.20	-
Refrigeration and heating equipment	3585	10.83	10.89	11.30	11.30	-	440.78	446.49	445.22	452.00	-
Misc. industrial and commercial machinery	359	11.47	11.57	11.64	11.68	-	488.62	495.20	491.21	489.39	-
Carburetors, pistons, rings, valves	3592	13.24	13.24	12.31	12.26	-	546.81	553.43	515.79	500.21	-
Scales, balances, and industrial machinery, nec	3596,9	11.06	11.15	11.33	11.37	-	468.94	474.99	476.99	475.27	-
Electronic and other electrical equipment	36	10.11	10.14	10.47	10.51	10.59	416.53	420.81	428.22	430.91	444.78
Electric distribution equipment	361	9.77	9.91	10.31	10.47	-	409.36	421.18	431.99	442.88	-
Transformers, except electronic	3612	9.50	9.64	10.06	10.24	-	397.10	411.63	422.52	436.22	-
Switchgear and switchboard apparatus	3613	10.04	10.19	10.58	10.71	-	421.68	431.04	442.24	448.75	-
Electrical industrial apparatus	362	10.00	10.02	10.08	10.12	-	417.00	425.85	421.34	427.06	-
Motors and generators	3621	10.19	10.11	9.90	9.95	-	421.87	430.69	403.92	409.94	-
Relays and industrial controls	3625	9.74	9.89	10.35	10.38	-	408.11	414.39	441.95	449.45	-
Household appliances	363	10.00	10.07	10.15	9.94	-	391.00	381.65	403.97	382.69	-
Household refrigerators and freezers	3632	11.74	11.59	11.44	11.20	-	428.51	375.52	433.58	362.88	-
Household laundry equipment	3633	11.94	12.06	12.42	12.47	-	452.53	488.43	495.56	496.31	-
Electric housewares and fans	3634	7.43	7.74	7.50	7.57	-	309.83	311.15	306.00	320.21	-
Electric lighting and wiring equipment	364	9.92	9.91	10.23	10.23	-	403.74	403.34	409.20	410.22	-
Electric lamps	3641	11.33	11.32	11.58	11.54	-	470.20	442.61	484.04	478.91	-
Current-carrying wiring devices	3643	9.87	9.84	10.00	10.02	-	400.72	400.49	392.00	398.80	-
Noncurrent-carrying wiring devices	3644	9.62	9.51	9.55	9.58	-	405.00	415.59	393.46	394.70	-
Residential lighting fixtures	3645	7.26	7.23	7.53	7.51	-	283.87	282.69	285.39	276.37	-
Household audio and video equipment	365	9.41	9.37	10.19	10.25	-	379.22	386.04	418.81	419.23	-
Household audio and video equipment	3651	9.93	9.69	10.78	10.71	-	394.22	399.23	449.53	441.25	-
Communications equipment	366	11.09	11.03	11.15	11.42	-	479.09	488.63	469.42	496.77	-
Telephone and telegraph apparatus	3661	11.68	11.55	11.70	12.13	-	520.93	528.99	514.80	557.98	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric components and accessories	367	40.9	41.2	40.0	40.3	-	3.6	3.8	3.4	3.6	-
Electron tubes	3671	42.7	42.8	41.0	41.5	-	4.1	4.1	3.3	3.6	-
Semiconductors and related devices	3674	41.1	41.7	40.0	40.6	-	4.4	4.7	4.5	4.7	-
Electronic components, nec	3679	40.9	41.4	39.5	39.9	-	3.2	3.3	2.4	2.6	-
Misc. electrical equipment and supplies	369	42.1	42.0	42.2	42.0	-	3.7	3.5	4.3	4.1	-
Storage batteries	3691	42.5	42.5	43.9	43.8	-	3.9	4.1	5.9	5.5	-
Engine electrical equipment	3694	42.2	41.6	41.6	41.0	-	3.8	3.3	4.0	3.4	-
Transportation equipment	37	41.3	42.5	42.5	41.4	42.6	4.3	4.1	4.4	3.8	-
Motor vehicles and equipment	371	42.9	42.9	43.3	40.7	42.4	4.4	4.0	4.8	3.5	-
Motor vehicles and car bodies	3711	43.5	43.4	44.0	39.8	-	4.6	3.7	5.3	3.4	-
Truck and bus bodies	3713	41.0	42.8	41.2	40.7	-	3.0	4.4	3.3	2.7	-
Motor vehicle parts and accessories	3714	43.0	42.8	43.4	41.4	-	4.6	4.3	4.8	3.7	-
Truck trailers	3715	40.1	39.9	41.1	40.7	-	2.4	2.7	2.8	2.6	-
Aircraft and parts	372	38.4	42.6	42.2	42.7	-	4.8	4.9	4.7	4.8	-
Aircraft	3721	34.5	42.0	41.6	41.9	-	3.9	4.4	4.2	4.2	-
Aircraft engines and engine parts	3724	43.9	43.0	43.2	43.7	-	6.3	5.4	5.8	6.2	-
Aircraft parts and equipment, nec	3728	40.5	43.4	42.3	43.1	-	5.2	5.2	4.6	4.5	-
Ship and boat building and repairing	373	40.5	41.1	40.5	40.9	-	3.0	3.2	2.5	3.0	-
Ship building and repairing	3731	41.1	41.5	41.8	42.6	-	3.2	3.5	2.7	3.5	-
Boat building and repairing	3732	39.3	40.3	37.8	37.4	-	2.7	2.9	1.9	1.9	-
Railroad equipment	374	43.2	42.4	41.6	42.0	-	4.1	3.6	3.5	3.2	-
Guided missiles, space vehicles, and parts	376	43.5	43.2	42.7	42.8	-	4.8	4.7	3.8	3.5	-
Guided missiles and space vehicles	3761	43.5	43.0	43.6	43.2	-	5.0	5.0	4.3	3.9	-
Misc. transportation equipment	379	40.0	40.8	40.1	39.8	-	2.6	2.7	2.7	2.7	-
Travel trailers and campers	3792	38.6	38.1	39.5	38.0	-	1.6	1.5	2.1	1.3	-
Instruments and related products	38	41.4	41.8	41.0	41.3	42.2	2.9	3.2	3.0	3.1	-
Search and navigation equipment	381	41.5	42.3	41.2	41.2	-	2.6	2.9	2.6	2.9	-
Measuring and controlling devices	382	41.5	42.0	40.9	41.5	-	2.9	3.0	2.8	3.0	-
Environmental controls	3822	40.5	41.4	40.5	41.0	-	2.2	2.6	2.7	3.1	-
Process control instruments	3823	43.1	43.5	41.5	42.3	-	4.4	4.5	3.4	3.7	-
Instruments to measure electricity	3825	40.4	40.6	40.2	41.0	-	2.2	2.2	2.0	2.2	-
Medical instruments and supplies	384	41.3	42.0	40.9	41.5	-	3.2	3.9	3.3	3.5	-
Surgical and medical instruments	3841	41.4	41.8	40.2	41.2	-	3.4	3.8	3.5	3.7	-
Surgical appliances and supplies	3842	41.3	42.3	41.2	41.5	-	3.2	4.1	3.2	3.6	-
Ophthalmic goods	385	39.1	38.9	38.7	38.9	-	3.0	2.5	2.4	2.2	-
Photographic equipment and supplies	386	42.4	41.8	42.8	42.1	-	3.0	3.3	4.3	3.8	-
Watches, clocks, watchcases, and parts	387	37.5	40.3	40.0	39.4	-	1.9	3.1	2.2	2.2	-
Miscellaneous manufacturing industries	39	40.2	40.0	40.2	40.2	39.7	3.0	2.7	3.1	3.0	-
Jewelry, silverware, and plated ware	391	40.1	39.6	39.9	40.1	-	3.6	2.6	3.7	3.3	-
Jewelry, precious metal	3911	40.3	39.8	39.9	40.1	-	3.9	2.8	4.1	3.6	-
Musical instruments	393	39.4	39.7	40.7	40.4	-	2.0	2.1	2.2	2.0	-
Toys and sporting goods	394	40.3	39.9	40.3	40.5	-	2.7	2.7	3.0	2.9	-
Dolls, games, toys, and children's vehicles	3942,4	39.9	37.2	40.0	40.6	-	2.4	1.9	3.0	3.0	-
Sporting and athletic goods, nec	3949	40.7	41.8	40.6	40.4	-	2.9	3.2	3.0	2.8	-
Pens, pencils, office, and art supplies	395	40.3	40.9	40.9	40.8	-	2.5	2.9	2.2	2.6	-
Costume jewelry and notions	396	40.9	40.3	41.2	40.9	-	3.6	2.4	4.1	2.9	-
Costume jewelry	3961	41.8	40.4	42.7	41.6	-	4.5	2.3	5.6	3.9	-
Miscellaneous manufactures	399	40.0	40.0	39.7	39.7	-	3.1	3.0	3.1	3.1	-
Signs and advertising specialties	3993	40.9	40.8	40.2	40.2	-	3.8	3.6	3.5	3.4	-
Nondurable goods	40.4	40.4	40.2	40.3	40.7	3.8	3.7	3.8	3.8	3.8	3.8
Food and kindred products	20	41.2	41.3	41.0	41.1	41.7	4.8	4.5	4.7	4.9	-
Meat products	201	41.3	40.7	40.6	40.3	-	5.1	4.4	4.4	4.5	-
Meat packing plants	2011	42.3	41.3	41.7	42.0	-	5.6	4.9	5.1	5.5	-
Sausages and other prepared meats	2013	41.8	41.4	42.0	41.7	-	5.2	4.9	5.4	5.5	-
Poultry slaughtering and processing	2015	40.4	40.0	39.3	38.7	-	4.6	3.9	3.5	3.6	-
Dairy products	202	41.3	41.2	40.9	41.3	-	4.4	4.3	4.4	4.7	-
Cheese, natural and processed	2022	39.8	39.2	39.8	40.0	-	3.7	3.8	3.7	4.0	-
Fluid milk	2026	42.2	42.2	41.2	42.3	-	5.2	5.0	4.7	5.2	-
Preserved fruits and vegetables	203	40.2	40.7	40.7	40.5	-	4.2	4.3	5.0	4.0	-
Canned specialties	2032	42.5	44.6	43.9	44.6	-	6.3	8.1	6.7	7.4	-
Canned fruits and vegetables	2033	40.4	41.4	39.9	40.8	-	4.6	4.2	5.0	3.8	-
Frozen fruits and vegetables	2037	39.5	38.8	40.0	38.4	-	3.8	4.0	5.1	3.6	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
		Durable goods—Continued									
Electronic and other electrical equipment—Continued											
Electronic components and accessories	367	\$9.70	\$9.80	\$10.20	\$10.22	-	\$396.73	\$403.76	\$408.00	\$411.87	-
Electron tubes	3671	11.28	11.54	12.22	12.21	-	481.66	493.91	501.02	506.72	-
Semiconductors and related devices	3674	11.77	11.87	12.56	12.50	-	483.75	494.98	502.40	507.50	-
Electronic components, nec	3679	9.17	9.27	9.48	9.39	-	375.05	383.78	374.46	374.66	-
Misc. electrical equipment and supplies	369	11.08	11.02	11.58	11.60	-	466.47	462.84	488.68	487.20	-
Storage batteries	3691	12.01	12.11	12.97	12.94	-	510.43	514.68	569.38	566.77	-
Engine electrical equipment	3694	11.84	11.72	12.21	12.33	-	499.65	487.55	507.94	505.53	-
Transportation equipment											
Motor vehicles and equipment	37	13.83	13.91	14.41	14.21	\$14.40	571.18	591.18	612.43	588.29	\$613.44
Motor vehicles and car bodies	371	14.43	14.46	15.01	14.63	14.88	619.05	620.33	649.93	595.44	630.91
Motor vehicles and car bodies	3711	16.71	16.73	17.89	17.68	-	726.89	726.08	787.16	703.66	-
Truck and bus bodies	3713	12.06	12.56	12.68	12.73	-	494.46	537.57	522.42	518.11	-
Motor vehicle parts and accessories	3714	13.47	13.41	13.68	13.37	-	579.21	573.95	593.71	553.52	-
Truck trailers	3715	9.57	9.73	9.77	9.81	-	383.76	388.23	401.55	399.27	-
Aircraft and parts	372	14.36	14.54	15.02	15.11	-	551.42	619.40	633.84	645.20	-
Aircraft	3721	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$14.65	\$14.68	\$15.11	\$15.21	-	\$643.14	\$631.24	\$652.75	\$664.68	-
Aircraft parts and equipment, nec	3728	12.97	13.26	13.60	13.67	-	525.29	575.48	575.28	589.18	-
Ship and boat building and repairing	373	10.74	10.74	11.14	11.06	-	434.97	441.41	451.17	452.35	-
Ship building and repairing	3731	11.62	11.60	11.96	11.80	-	477.58	481.40	499.93	502.68	-
Boat building and repairing	3732	9.11	9.16	9.17	9.23	-	358.02	369.15	346.63	345.20	-
Railroad equipment	374	12.87	12.81	13.66	13.61	-	555.98	543.14	568.26	571.62	-
Guided missiles, space vehicles, and parts	376	13.97	14.01	14.57	14.58	-	607.70	605.23	622.14	624.02	-
Guided missiles and space vehicles	3761	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Misc. transportation equipment	379	\$10.63	\$10.83	\$10.81	\$10.94	-	\$425.20	\$441.86	\$433.48	\$435.41	-
Travel trailers and campers	3792	9.30	9.27	9.19	9.04	-	358.98	353.19	363.01	343.52	-
Instruments and related products											
Search and navigation equipment	38	10.99	11.10	11.47	11.49	\$11.65	454.99	463.98	470.27	474.54	\$491.63
Measuring and controlling devices	381	14.17	14.24	14.82	14.90	-	588.06	602.35	610.58	613.88	-
Measuring and controlling devices	382	10.36	10.47	10.84	10.91	-	429.94	439.74	443.36	452.77	-
Environmental controls	3822	9.18	9.31	9.52	9.64	-	371.79	385.43	385.56	395.24	-
Process control instruments	3823	9.99	10.09	10.65	10.67	-	430.57	438.92	441.98	451.34	-
Instruments to measure electricity	3825	10.46	10.55	11.00	11.05	-	422.58	428.33	442.20	453.05	-
Medical instruments and supplies	384	9.49	9.65	10.03	10.03	-	391.94	405.30	410.23	416.25	-
Surgical and medical instruments	3841	9.44	9.62	10.20	10.08	-	390.82	402.12	410.04	415.30	-
Surgical appliances and supplies	3842	9.27	9.46	9.72	9.75	-	382.85	400.16	400.46	404.63	-
Ophthalmic goods	385	7.96	7.99	8.34	8.24	-	311.24	310.81	322.76	320.54	-
Photographic equipment and supplies	386	13.45	13.65	14.27	14.27	-	570.28	570.57	610.76	600.77	-
Watches, clocks, watchcases, and parts	387	7.57	7.71	7.56	7.69	-	283.88	310.71	302.40	302.99	-
Miscellaneous manufacturing industries											
Jewelry, silverware, and plated ware	39	8.47	8.57	8.62	8.66	8.79	340.49	342.80	346.52	348.13	348.96
Jewelry, silverware, and plated ware	391	9.10	9.19	9.36	9.24	-	364.91	363.92	373.46	370.52	-
Jewelry, precious metal	3911	9.20	9.25	9.34	9.18	-	370.76	368.15	372.67	368.12	-
Musical instruments	393	8.48	8.62	8.75	8.71	-	334.11	342.21	356.13	351.88	-
Toys and sporting goods	394	7.75	7.86	7.97	8.09	-	312.33	313.61	321.19	327.65	-
Dolls, games, toys, and children's vehicles	3942,4	7.52	7.58	7.80	7.89	-	300.05	281.98	312.00	320.33	-
Sporting and athletic goods, nec	3949	7.92	8.03	8.10	8.23	-	322.34	335.65	328.86	332.49	-
Pens, pencils, office, and art supplies	395	8.53	8.54	8.83	8.97	-	343.76	349.29	361.15	365.98	-
Costume jewelry and notions	396	7.23	7.35	7.32	7.14	-	295.71	296.21	301.58	292.03	-
Costume jewelry	3961	6.39	6.54	6.55	6.27	-	267.10	264.22	279.69	260.83	-
Miscellaneous manufactures	399	9.12	9.22	9.14	9.22	-	364.80	368.80	362.86	366.03	-
Signs and advertising specialties	3993	9.82	9.87	9.99	10.14	-	401.64	402.70	401.60	407.63	-
Nondurable goods											
Food and kindred products	20	9.87	9.96	10.21	10.31	10.36	398.75	402.38	410.44	415.49	421.65
Food and kindred products	201	9.43	9.56	9.57	9.77	9.87	388.52	394.83	392.37	401.55	411.58
Meat products	2011	7.84	7.87	7.89	8.02	-	323.79	320.31	320.33	323.21	-
Meat packing plants	2011	8.71	8.69	8.72	8.84	-	368.43	358.90	363.62	371.28	-
Sausages and other prepared meats	2013	9.27	9.34	9.28	9.41	-	387.49	386.68	389.76	392.40	-
Poultry slaughtering and processing	2015	6.69	6.76	6.78	6.87	-	270.28	270.40	266.45	265.87	-
Dairy products	202	10.29	10.43	10.58	10.74	-	424.98	429.72	432.72	443.56	-
Cheese, natural and processed	2022	9.62	9.59	9.67	9.84	-	382.88	375.93	384.87	393.60	-
Fluid milk	2026	10.71	10.86	11.06	11.19	-	451.96	458.29	455.67	473.34	-
Preserved fruits and vegetables	203	8.66	9.03	8.73	9.10	-	348.13	367.52	355.31	368.55	-
Canned specialties	2032	10.50	10.95	11.68	12.27	-	446.25	488.37	512.75	547.24	-
Canned fruits and vegetables	2033	8.74	9.23	8.43	8.78	-	353.10	382.12	336.36	358.22	-
Frozen fruits and vegetables	2037	7.70	8.08	8.11	8.30	-	304.15	313.50	324.40	318.72	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a
		Nondurable goods—Continued									
Food and kindred products—Continued											
Grain mill products	204	45.3	46.1	45.5	46.3	-	6.1	6.0	7.0	7.6	-
Flour and other grain mill products	2041	48.4	47.2	50.6	50.7	-	8.2	6.9	9.3	9.1	-
Prepared feeds, nec	2048	42.6	43.0	41.9	42.5	-	5.5	5.9	5.5	5.8	-
Bakery products	205	40.4	40.2	39.5	39.9	-	4.6	3.9	4.2	4.7	-
Bread, cake, and related products	2051	39.7	39.8	39.0	39.7	-	4.8	4.2	4.2	4.9	-
Cookies, crackers, and frozen bakery products, except bread	2052,3	41.7	40.9	40.4	40.3	-	4.3	3.3	4.3	4.5	-
Sugar and confectionery products	206	42.1	42.1	41.3	42.5	-	4.7	4.5	4.3	5.3	-
Raw cane sugar	2061	54.9	49.8	42.7	54.7	-	13.4	10.4	5.7	14.9	-
Cane sugar refining	2062	53.8	50.6	48.0	53.2	-	14.8	10.7	10.3	13.7	-
Beet sugar	2063	39.3	41.1	40.4	39.9	-	3.4	4.2	4.7	3.5	-
Candy and other confectionery products	2064	39.9	40.1	40.6	41.0	-	3.2	3.3	3.5	4.4	-
Fats and oils	207	44.5	44.9	45.5	46.4	-	6.6	6.5	7.0	7.9	-
Beverages	208	41.4	42.2	41.7	42.5	-	4.2	4.2	4.5	5.1	-
Malt beverages	2082	42.7	43.7	43.5	45.5	-	6.4	6.3	6.9	8.1	-
Bottled and canned soft drinks	2086	40.6	41.0	40.8	41.6	-	3.1	3.3	3.3	4.0	-
Misc. food and kindred products	209	39.3	39.5	39.4	39.4	-	4.4	4.5	4.4	4.4	-
Tobacco products	21	39.0	38.1	40.8	40.3	41.1	2.3	2.8	2.7	2.9	-
Cigarettes	211	39.0	38.1	40.8	41.1	-	2.4	3.1	3.1	3.4	-
Textile mill products	22	40.8	40.5	40.2	40.0	40.4	4.1	4.0	3.7	3.6	-
Broadwoven fabric mills, cotton	221	41.9	42.0	41.5	41.1	-	5.2	5.3	4.7	4.5	-
Broadwoven fabric mills, synthetics	222	41.2	41.2	41.2	40.8	-	4.1	3.9	4.2	3.9	-
Broadwoven fabric mills, wool	223	40.1	39.4	38.6	39.5	-	3.2	2.8	2.9	3.0	-
Narrow fabric mills	224	41.7	41.5	40.1	39.8	-	3.3	3.1	3.0	2.7	-
Knitting mills	225	39.5	38.4	38.1	38.3	-	3.6	3.3	2.8	2.8	-
Women's hosiery, except socks	2251	38.9	39.2	38.0	38.4	-	3.1	3.6	2.7	3.3	-
Hosiery, nec	2252	37.8	35.5	38.2	37.5	-	2.6	1.9	2.2	1.6	-
Knit outerwear mills	2253	39.3	38.3	36.8	37.9	-	4.5	3.9	3.0	2.8	-
Knit underwear mills	2254	40.3	38.1	37.6	36.7	-	2.2	2.4	1.7	1.9	-
Weft knit fabric mills	2257	41.2	40.2	39.5	39.0	-	4.1	3.8	3.4	3.2	-
Textile finishing, except wool	226	42.0	42.2	41.9	42.3	-	5.0	5.3	5.0	5.5	-
Finishing plants, cotton	2261	43.0	43.1	42.5	43.1	-	5.4	5.8	5.4	5.9	-
Finishing plants, synthetics	2262	41.6	41.8	42.4	42.3	-	4.8	5.2	5.5	6.0	-
Carpets and rugs	227	42.3	43.8	42.6	42.2	-	4.4	5.0	4.7	3.9	-
Yarn and thread mills	228	40.3	39.4	39.4	38.5	-	3.8	3.3	3.3	2.8	-
Yarn spinning mills	2281	40.5	39.6	40.1	38.9	-	4.1	3.5	3.6	2.9	-
Throwing and winding mills	2282	37.9	37.1	35.2	35.9	-	2.1	2.0	2.1	2.6	-
Miscellaneous textile goods	229	41.6	41.5	41.4	41.7	-	3.9	3.7	3.8	3.8	-
Apparel and other textile products	23	37.1	36.7	36.6	36.6	36.9	1.9	1.8	1.8	1.8	-
Men's and boys' suits and coats	231	36.0	35.8	36.1	36.8	-	.9	.9	.8	1.1	-
Men's and boys' furnishings	232	36.9	36.7	36.4	36.1	-	1.6	1.5	1.3	1.4	-
Men's and boys' shirts	2321	36.6	36.4	35.5	35.6	-	1.3	1.3	.9	1.2	-
Men's and boys' trousers and slacks	2325	36.0	36.0	35.7	35.5	-	1.5	1.5	1.4	1.3	-
Men's and boys' work clothing	2326	36.1	36.0	37.0	36.9	-	1.4	1.4	1.1	1.3	-
Women's and misses' outerwear	233	35.4	35.1	34.9	35.2	-	1.6	1.6	1.5	1.6	-
Women's and misses' blouses and shirts	2331	35.1	34.6	35.3	35.0	-	1.2	1.0	1.0	.8	-
Women's, juniors', and misses' dresses	2335	33.6	33.3	33.2	33.4	-	1.6	1.5	1.1	1.1	-
Women's and misses' suits and coats	2337	35.0	35.8	34.8	34.9	-	1.9	2.1	2.3	2.2	-
Women's and misses' outerwear, nec	2339	36.3	35.8	35.4	36.0	-	1.7	1.7	1.6	1.8	-
Women's and children's undergarments	234	37.7	36.2	38.5	38.1	-	2.0	1.3	1.9	1.8	-
Women's and children's underwear	2341	38.1	36.6	39.2	38.5	-	2.0	1.3	2.0	1.8	-
Brassieres, girdles, and allied garments	2342	35.6	34.4	34.9	35.9	-	1.8	1.5	1.3	1.6	-
Girls' and children's outerwear	236	37.8	36.8	36.1	36.8	-	2.0	2.0	1.5	1.5	-
Girls' and children's dresses and blouses	2361	37.2	35.7	36.7	36.9	-	1.7	2.0	2.1	2.0	-
Misc. apparel and accessories	238	37.7	37.5	37.1	37.2	-	2.0	1.7	1.9	1.3	-
Misc. fabricated textile products	239	39.6	39.3	39.4	39.0	-	3.2	3.0	3.1	2.9	-
Curtains and draperies	2391	37.3	37.4	35.2	36.8	-	2.4	2.6	1.3	2.2	-
House furnishings, nec	2392	41.0	40.2	40.1	39.9	-	3.8	3.6	3.6	3.7	-
Automotive and apparel trimmings	2396	41.4	41.2	41.2	39.9	-	4.2	3.9	4.0	3.2	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Nondurable goods—Continued											
Food and kindred products—Continued											
Grain mill products	204	\$11.39	\$11.55	\$11.55	\$11.85	-	\$515.97	\$532.46	\$525.53	\$548.66	-
Flour and other grain mill products	2041	10.79	10.66	10.78	10.86	-	522.24	503.15	545.47	550.60	-
Prepared feeds, nec	2048	8.83	8.88	9.12	9.27	-	376.16	381.84	382.13	393.98	-
Bakery products	205	10.57	10.66	10.91	10.96	-	427.03	428.53	430.95	437.30	-
Bread, cake, and related products	2051	10.50	10.60	10.90	10.92	-	416.85	421.88	425.10	433.52	-
Cookies, crackers, and frozen bakery products, except bread	2052,3	10.70	10.78	10.93	11.03	-	446.19	440.90	441.57	444.51	-
Sugar and confectionery products	206	9.67	9.82	9.92	10.06	-	407.11	413.42	409.70	427.55	-
Raw cane sugar	2061	9.52	9.78	10.20	9.88	-	522.65	487.04	435.54	540.44	-
Cane sugar refining	2062	14.34	14.17	14.60	14.66	-	771.49	717.00	700.80	779.91	-
Beet sugar	2063	9.69	9.79	9.32	10.02	-	380.82	402.37	376.53	399.80	-
Candy and other confectionery products	2064	8.49	8.66	8.93	9.11	-	338.75	347.27	362.56	373.51	-
Fats and oils	207	9.99	9.93	10.26	10.22	-	444.56	445.86	466.83	474.21	-
Beverages	208	13.49	13.43	13.60	13.88	-	558.49	566.75	567.12	589.90	-
Malt beverages	2082	18.58	18.13	18.82	19.13	-	793.37	792.28	818.67	870.42	-
Bottled and canned soft drinks	2086	10.64	10.76	10.90	11.02	-	431.98	441.16	444.72	458.43	-
Misc. food and kindred products	209	8.89	8.87	9.15	9.20	-	349.38	350.37	360.51	362.48	-
Tobacco products	21	15.01	15.33	16.03	16.99	\$16.62	585.39	584.07	654.02	684.70	\$683.08
Cigarettes	211	18.84	19.48	19.92	20.63	-	734.76	742.19	812.74	847.89	-
Textile mill products	22	7.80	7.85	8.12	8.13	8.19	318.24	317.93	326.42	325.20	330.88
Broadwoven fabric mills, cotton	221	8.12	8.16	8.41	8.44	-	340.23	342.72	349.02	346.88	-
Broadwoven fabric mills, synthetics	222	8.44	8.42	8.72	8.80	-	347.73	346.90	359.26	359.04	-
Broadwoven fabric mills, wool	223	8.62	8.46	8.65	8.72	-	345.66	333.32	333.89	344.44	-
Narrow fabric mills	224	7.24	7.29	7.52	7.56	-	301.91	302.54	301.55	300.89	-
Knitting mills	225	7.16	7.20	7.47	7.46	-	282.82	276.48	284.61	285.72	-
Women's hosiery, except socks	2251	6.79	6.86	6.97	7.05	-	264.13	268.91	264.86	270.72	-
Hosiery, nec	2252	6.85	6.78	7.11	7.08	-	258.93	240.69	271.60	265.50	-
Knit outerwear mills	2253	7.01	7.11	7.50	7.42	-	275.49	272.31	276.00	281.22	-
Knit underwear mills	2254	7.21	7.15	7.36	7.32	-	290.56	272.42	276.74	268.64	-
Weft knit fabric mills	2257	7.77	7.79	8.02	8.07	-	320.12	313.16	316.79	314.73	-
Textile finishing, except wool	226	8.27	8.36	8.57	8.66	-	347.34	352.79	359.08	366.32	-
Finishing plants, cotton	2261	8.19	8.26	8.49	8.53	-	352.17	356.01	360.83	367.64	-
Finishing plants, synthetics	2262	8.54	8.68	8.98	9.11	-	355.26	362.82	380.75	385.35	-
Carpets and rugs	227	8.05	8.10	8.27	8.24	-	340.52	354.78	352.30	347.73	-
Yarn and thread mills	228	7.49	7.53	7.78	7.74	-	301.85	296.68	306.53	297.99	-
Yarn spinning mills	2281	7.49	7.53	7.79	7.72	-	303.35	298.19	312.38	300.31	-
Throwing and winding mills	2282	7.58	7.59	7.91	8.02	-	287.28	281.59	278.43	287.92	-
Miscellaneous textile goods	229	8.64	8.77	9.14	9.19	-	359.42	363.96	378.40	383.22	-
Apparel and other textile products	23	6.43	6.45	6.67	6.64	6.67	238.55	236.72	244.12	243.02	246.12
Men's and boys' suits and coats	231	7.29	7.20	7.36	7.37	-	262.44	257.76	265.70	271.22	-
Men's and boys' furnishings	232	5.84	5.85	6.11	6.12	-	215.50	214.70	222.40	220.93	-
Men's and boys' shirts	2321	5.77	5.79	5.99	6.08	-	211.18	210.76	212.65	216.45	-
Men's and boys' trousers and slacks	2325	5.74	5.74	6.02	6.01	-	206.64	206.64	214.91	213.36	-
Men's and boys' work clothing	2326	5.63	5.70	5.92	5.92	-	203.24	205.20	219.04	218.45	-
Women's and misses' outerwear	233	6.15	6.19	6.38	6.38	-	217.71	217.27	222.66	224.58	-
Women's and misses' blouses and shirts	2331	5.40	5.45	5.63	5.61	-	189.54	188.57	198.74	196.35	-
Women's, juniors', and misses' dresses	2335	6.50	6.56	6.92	6.88	-	218.40	218.45	229.74	229.79	-
Women's and misses' suits and coats	2337	6.67	6.73	7.08	7.15	-	233.45	240.93	246.38	249.54	-
Women's and misses' outerwear, nec	2339	6.07	6.11	6.18	6.20	-	220.34	218.74	218.77	223.20	-
Women's and children's undergarments	234	5.99	5.96	6.26	6.22	-	225.82	215.75	241.01	236.98	-
Women's and children's underwear	2341	5.85	5.79	6.11	6.07	-	222.89	211.91	239.51	233.70	-
Brassieres, girdles, and allied garments	2342	6.71	6.78	7.08	7.03	-	238.88	233.23	247.09	252.38	-
Girls' and children's outerwear	236	5.81	5.80	5.99	6.02	-	219.62	213.44	216.24	221.54	-
Girls' and children's dresses and blouses	2361	5.72	5.76	5.90	5.86	-	212.78	205.63	216.53	216.23	-
Misc. apparel and accessories	238	6.29	6.31	6.67	6.45	-	237.13	236.63	240.04	239.94	-
Misc. fabricated textile products	239	7.73	7.77	7.97	7.84	-	306.11	305.36	314.02	305.76	-
Curtains and draperies	2391	6.49	6.41	6.60	6.59	-	242.08	239.73	232.32	242.51	-
House furnishings, nec	2392	6.49	6.53	6.78	6.80	-	266.09	262.51	271.88	271.32	-
Automotive and apparel trimmings	2396	11.50	11.68	11.33	11.08	-	476.10	481.22	466.80	442.09	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^a	Dec. 1990 ^a
Nondurable goods—Continued											
Paper and allied products	26	43.7	43.9	43.6	43.8	44.3	4.8	4.9	5.1	5.3	-
Paper mills	262	45.5	45.7	45.8	45.3	-	4.8	4.9	5.8	6.1	-
Paperboard mills	263	45.5	45.6	45.6	47.5	-	6.7	7.2	7.3	8.4	-
Paperboard containers and boxes	265	43.2	43.3	42.9	43.1	-	4.7	4.7	4.9	4.8	-
Corrugated and solid fiber boxes	2653	44.0	44.0	43.7	43.5	-	5.2	5.2	5.6	5.3	-
Sanitary food containers	2656	41.9	44.6	43.7	44.5	-	3.9	4.4	4.4	4.0	-
Folding paperboard boxes	2657	42.5	42.8	42.0	42.6	-	4.3	4.7	4.6	4.8	-
Misc. converted paper products	267	42.8	42.8	42.1	42.4	-	4.4	4.4	4.3	4.4	-
Paper, coated and laminated, nec	2672	44.6	43.9	42.6	43.5	-	4.9	4.7	3.4	4.2	-
Bags: plastics, laminated, and coated	2673	42.6	42.9	41.8	42.3	-	5.0	5.0	4.9	5.3	-
Envelopes	2677	42.5	42.8	41.6	41.8	-	4.1	4.1	3.8	3.7	-
Printing and publishing	27	38.2	38.3	38.0	38.1	38.5	3.2	3.2	3.2	3.2	-
Newspapers	271	34.0	33.9	32.9	33.8	-	1.8	1.5	1.2	1.7	-
Periodicals	272	38.3	38.0	38.6	38.0	-	3.6	3.0	3.7	3.6	-
Books	273	38.2	38.6	38.3	38.4	-	2.6	2.9	3.1	3.1	-
Book publishing	2731	38.1	38.4	38.4	38.4	-	2.1	2.5	2.5	1.9	-
Book printing	2732	38.5	38.9	38.2	38.4	-	3.2	3.4	3.8	4.5	-
Miscellaneous publishing	274	36.3	36.1	36.2	36.1	-	2.1	2.1	1.9	2.0	-
Commercial printing	275	39.6	39.7	39.7	39.6	-	3.8	3.8	3.9	3.7	-
Commercial printing, lithographic	2752	39.4	39.6	39.3	39.4	-	3.9	3.9	3.8	3.6	-
Commercial printing, nec	2759	39.7	39.6	40.2	39.9	-	3.6	3.5	3.7	3.7	-
Manifold business forms	276	42.8	44.9	41.4	41.6	-	4.2	5.8	3.2	3.5	-
Blankbooks and bookbinding	278	37.4	37.7	38.3	37.6	-	2.5	2.6	2.8	2.7	-
Printing trade services	279	39.2	39.4	39.2	39.4	-	4.0	3.9	4.5	4.5	-
Chemicals and allied products	28	42.7	43.2	42.5	42.8	43.3	4.3	4.5	4.5	4.5	-
Industrial inorganic chemicals	281	42.7	42.3	43.4	43.7	-	4.4	4.1	4.7	4.7	-
Industrial inorganic chemicals, nec	2819	41.8	42.0	42.9	43.3	-	4.0	4.0	4.3	4.6	-
Plastics materials and synthetics	282	43.3	43.1	42.6	43.1	-	5.0	4.8	5.2	5.2	-
Plastics materials and resins	2821	44.3	44.4	44.5	44.4	-	5.4	5.5	6.3	6.0	-
Organic fibers, noncellulosic	2824	42.8	41.8	41.0	42.2	-	4.4	3.7	4.0	4.4	-
Drugs	283	42.3	43.8	41.5	42.2	-	4.1	4.4	4.0	4.0	-
Pharmaceutical preparations	2834	42.4	44.2	41.5	42.4	-	4.1	4.4	4.0	4.0	-
Soap, cleaners, and toilet goods	284	40.5	42.0	40.4	40.7	-	2.8	3.9	3.1	2.9	-
Soap and other detergents	2841	42.3	44.0	42.3	42.1	-	4.5	6.0	5.3	4.6	-
Polishing, sanitation, and finishing preparations	2842,3	41.7	43.4	40.6	40.3	-	2.7	3.5	3.2	2.6	-
Toilet preparations	2844	38.8	40.2	39.0	40.0	-	1.9	2.8	1.7	1.9	-
Paints and allied products	285	42.1	42.5	41.8	41.3	-	3.6	3.7	3.3	2.9	-
Industrial organic chemicals	286	44.7	45.2	45.0	45.0	-	5.6	5.7	6.0	5.7	-
Cyclic crudes and intermediates	2865	44.2	45.3	43.5	44.2	-	5.0	6.1	5.7	5.2	-
Industrial organic chemicals, nec	2869	44.9	45.3	45.6	45.3	-	5.8	5.7	6.2	5.9	-
Agricultural chemicals	287	43.4	43.5	44.3	44.1	-	4.8	4.9	5.9	5.7	-
Miscellaneous chemical products	289	42.6	43.1	42.4	43.0	-	3.9	4.0	4.4	4.5	-
Petroleum and coal products	29	44.8	45.4	43.9	46.3	45.7	6.1	5.6	6.4	6.8	-
Petroleum refining	291	44.7	45.9	44.0	47.8	-	5.6	5.4	6.1	7.1	-
Asphalt paving and roofing materials	295	46.5	45.0	44.2	42.5	-	8.9	7.6	7.9	6.6	-
Rubber and misc. plastics products	30	41.3	41.4	41.3	41.0	41.4	3.6	3.5	3.8	3.5	-
Tires and inner tubes	301	42.9	42.7	43.7	43.1	-	4.8	5.0	5.5	5.0	-
Rubber and plastics footwear	302	41.9	41.4	42.7	42.5	-	3.2	2.1	3.4	3.1	-
Hose, belting, gaskets, and packing	305	41.8	41.5	42.4	42.1	-	3.0	3.1	3.7	3.8	-
Rubber and plastics hose and belting	3052	42.9	42.6	42.3	41.8	-	3.5	3.5	4.0	3.9	-
Fabricated rubber products, nec	306	41.1	41.7	41.1	40.2	-	3.3	3.2	3.1	2.6	-
Miscellaneous plastics products, nec	308	41.1	41.2	40.9	40.8	-	3.6	3.5	3.7	3.4	-
Leather and leather products	31	37.5	37.8	37.4	36.6	37.6	2.1	1.9	2.0	1.8	-
Leather tanning and finishing	311	41.5	42.4	41.4	41.1	-	3.8	4.0	3.5	3.9	-
Footwear, except rubber	314	36.5	37.0	36.0	35.3	-	1.5	1.3	1.3	1.1	-
Men's footwear, except athletic	3143	36.0	36.6	36.0	35.4	-	1.0	.9	1.0	1.1	-
Women's footwear, except athletic	3144	36.6	37.0	35.3	34.9	-	2.2	1.6	1.2	1.0	-
Luggage	316	42.0	37.7	42.1	40.6	-	2.4	1.7	3.1	3.2	-
Handbags and personal leather goods	317	36.0	36.3	38.1	37.2	-	3.5	3.0	2.4	2.2	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Nondurable goods—Continued											
Paper and allied products	26	\$12.10	\$12.13	\$12.43	\$12.57	\$12.61	\$528.77	\$532.51	\$541.95	\$550.57	\$558.62
Paper mills	262	14.92	14.81	15.33	15.57	-	678.86	676.82	702.11	705.32	-
Paperboard mills	263	15.11	15.16	15.58	15.74	-	687.51	691.30	710.45	747.65	-
Paperboard containers and boxes	265	10.20	10.27	10.44	10.50	-	440.64	444.69	447.88	452.55	-
Corrugated and solid fiber boxes	2653	10.38	10.45	10.56	10.59	-	456.72	459.80	461.47	460.67	-
Sanitary food containers	2656	10.16	10.05	10.37	10.22	-	425.70	448.23	453.17	454.79	-
Folding paperboard boxes	2657	10.48	10.56	10.72	10.85	-	445.40	451.97	450.24	462.21	-
Misc. converted paper products	267	10.60	10.65	10.84	10.97	-	453.68	455.82	456.36	465.13	-
Paper, coated and laminated, nec	2672	11.95	11.85	12.38	12.60	-	532.97	520.22	527.39	548.10	-
Bags: plastics, laminated, and coated	2673	9.99	10.04	10.27	10.44	-	425.57	430.72	429.29	441.61	-
Envelopes	2677	9.88	9.99	10.24	10.25	-	419.90	427.57	425.98	428.45	-
Printing and publishing	27	11.07	11.09	11.36	11.38	11.46	422.87	424.75	431.68	433.58	441.21
Newspapers	271	10.99	10.96	11.25	11.36	-	373.66	371.54	370.13	383.97	-
Periodicals	272	11.72	11.77	11.93	11.88	-	448.88	447.26	460.50	451.44	-
Books	273	10.04	9.93	10.56	10.42	-	383.53	383.30	404.45	400.13	-
Book publishing	2731	9.72	9.64	10.53	10.33	-	370.33	370.18	404.35	396.67	-
Book printing	2732	10.44	10.28	10.60	10.53	-	401.94	399.89	404.92	404.35	-
Miscellaneous publishing	274	10.34	10.37	10.33	10.49	-	375.34	374.36	373.95	378.69	-
Commercial printing	275	11.31	11.36	11.64	11.61	-	447.88	450.99	462.11	459.76	-
Commercial printing, lithographic	2752	11.41	11.46	11.75	11.65	-	449.55	453.82	461.78	459.01	-
Commercial printing, nec	2759	11.05	11.08	11.35	11.44	-	438.69	438.77	456.27	456.46	-
Manifold business forms	276	11.41	11.64	11.69	11.91	-	488.35	522.64	483.97	495.46	-
Blankbooks and bookbinding	278	8.80	8.85	8.94	9.03	-	329.12	333.65	342.40	339.53	-
Printing trade services	279	13.50	13.44	13.84	13.85	-	529.20	529.54	542.53	545.69	-
Chemicals and allied products	28	13.28	13.32	13.72	13.73	13.69	567.06	575.42	583.10	587.64	592.78
Industrial inorganic chemicals	281	14.36	14.47	14.88	14.94	-	613.17	612.08	645.79	652.88	-
Industrial inorganic chemicals, nec	2819	14.51	14.57	15.06	15.28	-	606.52	611.94	646.07	661.62	-
Plastics materials and synthetics	282	13.69	13.74	14.17	14.29	-	592.78	592.19	603.64	615.90	-
Plastics materials and resins	2821	14.63	14.70	15.11	15.04	-	648.11	652.68	672.40	667.78	-
Organic fibers, noncellulosic	2824	12.88	12.92	13.25	13.58	-	551.26	540.06	543.25	573.08	-
Drugs	283	12.71	12.66	13.11	12.98	-	537.63	554.51	544.07	547.76	-
Pharmaceutical preparations	2834	12.69	12.71	13.07	12.92	-	538.06	561.78	542.41	547.81	-
Soap, cleaners, and toilet goods	284	11.48	11.70	11.93	11.94	-	464.94	491.40	481.97	485.96	-
Soap and other detergents	2841	15.03	15.43	15.80	15.32	-	635.77	678.92	668.34	644.97	-
Polishing, sanitation, and finishing preparations	2842,3	10.13	10.19	10.38	10.45	-	422.42	442.25	421.43	421.14	-
Toilet preparations	2844	9.91	10.07	10.16	10.39	-	384.51	404.81	396.24	415.60	-
Paints and allied products	285	11.80	11.77	12.05	12.19	-	496.78	500.23	503.69	503.45	-
Industrial organic chemicals	286	15.76	15.76	16.10	16.11	-	704.47	712.35	724.50	724.95	-
Cyclic crudes and intermediates	2865	15.56	15.77	15.80	15.92	-	687.75	714.38	687.30	703.66	-
Industrial organic chemicals, nec	2869	16.00	15.93	16.36	16.34	-	718.40	721.63	746.02	740.20	-
Agricultural chemicals	287	13.04	13.16	14.12	13.98	-	565.94	572.46	625.52	616.52	-
Miscellaneous chemical products	289	12.06	12.13	12.46	12.43	-	513.76	522.80	528.30	534.49	-
Petroleum and coal products	29	15.62	15.75	16.40	16.64	16.61	699.78	715.05	719.96	770.43	759.08
Petroleum refining	291	16.80	16.84	17.76	17.96	-	750.96	772.96	781.44	858.49	-
Asphalt paving and roofing materials	295	12.76	12.62	13.35	13.03	-	593.34	567.90	590.07	553.78	-
Rubber and misc. plastics products	30	9.54	9.64	9.90	9.93	9.93	394.00	399.10	408.87	407.13	411.10
Tires and inner tubes	301	15.18	15.29	15.88	15.70	-	651.22	652.88	693.96	676.67	-
Rubber and plastics footwear	302	6.69	6.57	6.64	6.75	-	280.31	272.00	283.53	286.88	-
Hose, belting, gaskets, and packing	305	9.35	9.38	9.69	9.78	-	390.83	389.27	410.86	411.74	-
Rubber and plastics hose and belting	3052	9.66	9.61	9.96	10.02	-	414.41	409.39	421.31	418.84	-
Fabricated rubber products, nec	306	9.16	9.22	9.42	9.46	-	376.48	384.47	387.16	380.29	-
Miscellaneous plastics products, nec	308	8.93	9.02	9.23	9.27	-	367.02	371.62	377.51	378.22	-
Leather and leather products	31	6.68	6.74	6.98	6.98	7.11	250.50	254.77	261.05	255.47	267.34
Leather tanning and finishing	311	8.74	8.77	9.10	9.20	-	362.71	371.85	376.74	378.12	-
Footwear, except rubber	314	6.39	6.40	6.70	6.66	-	233.24	236.80	241.20	235.10	-
Men's footwear, except athletic	3143	6.87	6.85	7.21	7.22	-	247.32	250.71	259.56	255.59	-
Women's footwear, except athletic	3144	5.98	6.03	6.17	6.15	-	218.87	223.11	217.80	214.64	-
Luggage	316	6.71	6.58	6.95	7.03	-	281.82	248.07	292.60	285.42	-
Handbags and personal leather goods	317	6.13	6.11	6.09	6.19	-	220.68	221.79	232.03	230.27	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Transportation and public utilities		38.7	38.7	38.6	38.7	39.0	-	-	-	-	-
Railroad transportation:											
Class I railroads ²	4011	43.4	42.4	44.0	44.5	-	-	-	-	-	-
Local and interurban passenger transit	41	33.4	33.3	32.4	32.0	-	-	-	-	-	-
Local and suburban transportation	411	38.4	38.0	37.8	37.7	-	-	-	-	-	-
Intercity and rural bus transportation	413	40.0	38.6	39.5	38.7	-	-	-	-	-	-
Trucking and warehousing	42	38.4	38.8	38.6	38.3	-	-	-	-	-	-
Trucking and courier services, except air	421	38.2	38.7	38.5	38.1	-	-	-	-	-	-
Public warehousing and storage	422	39.9	39.6	40.1	40.5	-	-	-	-	-	-
Pipelines, except natural gas	46	40.9	42.5	40.6	41.7	-	-	-	-	-	-
Transportation services:											
Freight transportation arrangement	473	37.8	37.3	37.5	37.8	-	-	-	-	-	-
Communications	48	39.0	39.4	39.0	39.1	-	-	-	-	-	-
Telephone communications	481	40.4	40.9	40.6	40.7	-	-	-	-	-	-
Radio and television broadcasting	483	34.9	35.0	34.3	34.4	-	-	-	-	-	-
Cable and other pay television services	484	38.0	38.1	38.3	37.5	-	-	-	-	-	-
Electric, gas, and sanitary services	49	42.2	42.1	41.4	41.8	-	-	-	-	-	-
Electric services	491	41.9	42.0	41.6	41.5	-	-	-	-	-	-
Gas production and distribution	492	42.9	42.9	42.4	43.0	-	-	-	-	-	-
Combination utility services	493	43.1	42.7	40.0	41.4	-	-	-	-	-	-
Sanitary services	495	41.7	41.3	42.1	42.2	-	-	-	-	-	-
Wholesale trade		38.1	38.2	38.1	38.0	38.4	-	-	-	-	-
Durable goods	50	38.4	38.6	38.5	38.5	-	-	-	-	-	-
Motor vehicles, parts, and supplies	501	37.8	38.1	37.8	37.9	-	-	-	-	-	-
Furniture and home furnishings	502	37.1	37.3	37.1	37.2	-	-	-	-	-	-
Lumber and other construction materials	503	39.8	39.4	39.8	39.5	-	-	-	-	-	-
Professional and commercial equipment	504	38.6	38.8	38.8	38.8	-	-	-	-	-	-
Metals and minerals, except petroleum	505	40.3	40.3	39.9	40.1	-	-	-	-	-	-
Electrical goods	506	38.3	38.6	38.4	38.3	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	38.6	38.9	38.9	38.8	-	-	-	-	-	-
Machinery, equipment, and supplies	508	38.8	39.0	38.8	38.6	-	-	-	-	-	-
Misc. wholesale trade durable goods	509	37.0	36.9	37.2	36.9	-	-	-	-	-	-
Nondurable goods	51	37.5	37.6	37.4	37.4	-	-	-	-	-	-
Paper and paper products	511	37.4	37.3	37.4	37.6	-	-	-	-	-	-
Drugs, proprietaries, and sundries	512	37.7	37.8	37.0	36.8	-	-	-	-	-	-
Apparel, piece goods, and notions	513	36.8	36.9	36.9	36.9	-	-	-	-	-	-
Groceries and related products	514	38.2	38.4	38.1	38.2	-	-	-	-	-	-
Chemicals and allied products	516	39.8	40.2	39.6	39.9	-	-	-	-	-	-
Petroleum and petroleum products	517	38.2	38.5	38.0	37.9	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	36.1	36.5	36.4	36.3	-	-	-	-	-	-
Misc. wholesale trade nondurable goods	519	36.7	36.8	36.6	36.2	-	-	-	-	-	-
Retail trade		28.6	29.3	28.4	28.4	29.1	-	-	-	-	-
Building materials and garden supplies	52	36.0	36.0	35.7	35.6	-	-	-	-	-	-
Lumber and other building materials	521	37.8	37.6	37.6	37.4	-	-	-	-	-	-
Hardware stores	525	32.0	32.6	31.7	31.9	-	-	-	-	-	-
General merchandise stores	53	27.7	30.6	27.9	28.3	-	-	-	-	-	-
Department stores	531	27.6	30.5	27.8	28.2	-	-	-	-	-	-
Variety stores	533	28.2	32.5	27.8	28.3	-	-	-	-	-	-
Misc. general merchandise stores	539	28.3	30.1	28.8	29.4	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Transportation and public utilities		\$12.71	\$12.76	\$13.07	\$13.09	\$13.16	\$491.88	\$493.81	\$504.50	\$506.58	\$513.24
Railroad transportation:											
Class I railroads ²	4011	16.06	16.28	15.77	15.87	-	697.00	690.27	693.88	706.22	-
Local and interurban passenger transit	41	9.06	9.06	9.14	9.14	-	302.60	301.70	296.14	292.48	-
Local and suburban transportation	411	9.78	9.93	9.88	9.88	-	375.55	377.34	373.46	372.48	-
Intercity and rural bus transportation	413	11.89	11.69	11.42	11.36	-	475.60	451.23	451.09	439.63	-
Trucking and warehousing	42	11.57	11.70	11.77	11.76	-	444.29	453.96	454.32	450.41	-
Trucking and courier services, except air	421	11.75	11.86	11.95	11.90	-	448.85	458.98	460.08	453.39	-
Public warehousing and storage	422	9.24	9.42	9.46	9.87	-	368.68	373.03	379.35	399.74	-
Pipelines, except natural gas	46	16.43	17.06	17.17	17.21	-	671.99	725.05	697.10	717.66	-
Transportation services:											
Freight transportation arrangement	473	11.52	11.64	12.22	12.32	-	435.46	434.17	458.25	465.70	-
Communications	48	13.21	13.25	13.64	13.62	-	515.19	522.05	531.96	532.54	-
Telephone communications	481	13.90	13.91	14.28	14.25	-	561.56	568.92	579.77	579.98	-
Radio and television broadcasting	483	12.26	12.26	12.89	12.90	-	427.87	429.10	442.13	443.76	-
Cable and other pay television services	484	10.18	10.26	10.69	10.54	-	386.84	390.91	409.43	395.25	-
Electric, gas, and sanitary services	49	14.98	14.99	15.67	15.79	-	632.16	631.08	648.74	660.02	-
Electric services	491	15.43	15.38	16.04	16.15	-	646.52	645.96	667.26	670.23	-
Gas production and distribution	492	13.99	14.21	14.58	14.66	-	600.17	609.61	618.19	630.38	-
Combination utility services	493	17.25	17.16	18.98	19.08	-	743.48	732.73	759.20	789.91	-
Sanitary services	495	11.49	11.59	11.60	11.69	-	479.13	478.67	488.36	493.32	-
Wholesale trade		10.56	10.63	10.87	10.95	11.08	402.34	406.07	414.15	416.10	425.47
Durable goods	50	10.87	10.92	11.27	11.33	-	417.41	421.51	433.90	436.21	-
Motor vehicles, parts, and supplies	501	9.77	9.84	10.10	10.15	-	369.31	374.90	381.78	384.69	-
Furniture and home furnishings	502	9.94	10.00	10.14	10.33	-	368.77	373.00	376.19	384.28	-
Lumber and other construction materials	503	10.27	10.35	10.58	10.68	-	408.75	407.79	421.08	421.86	-
Professional and commercial equipment	504	12.62	12.58	13.35	13.32	-	487.13	488.10	517.98	516.82	-
Metals and minerals, except petroleum	505	11.03	11.12	11.35	11.38	-	444.51	448.14	452.87	456.34	-
Electrical goods	506	11.28	11.35	11.48	11.62	-	432.02	438.11	440.83	445.05	-
Hardware, plumbing, and heating equipment	507	10.19	10.26	10.65	10.69	-	393.33	399.11	414.29	414.77	-
Machinery, equipment, and supplies	508	10.94	11.00	11.22	11.29	-	424.47	429.00	435.34	435.79	-
Misc. wholesale trade durable goods	509	8.55	8.59	8.95	8.92	-	316.35	316.97	332.94	329.15	-
Nondurable goods	51	10.10	10.20	10.30	10.40	-	378.75	383.52	385.22	388.96	-
Paper and paper products	511	10.88	10.82	11.06	11.11	-	406.91	403.59	413.64	417.74	-
Drugs, proprietaries, and sundries	512	11.69	11.75	11.90	12.12	-	440.71	444.15	440.30	446.02	-
Apparel, piece goods, and notions	513	9.80	9.99	9.94	10.02	-	360.64	368.63	366.79	369.74	-
Groceries and related products	514	10.26	10.30	10.46	10.59	-	391.93	395.52	398.53	404.54	-
Chemicals and allied products	516	12.59	12.69	12.48	12.55	-	501.08	510.14	494.21	500.75	-
Petroleum and petroleum products	517	10.09	10.28	10.16	10.20	-	385.44	395.78	386.08	386.58	-
Beer, wine, and distilled beverages	518	11.83	12.11	12.13	12.31	-	427.06	442.02	441.53	446.85	-
Misc. wholesale trade nondurable goods	519	8.37	8.46	8.72	8.76	-	307.18	311.33	319.15	317.11	-
Retail trade		6.63	6.65	6.85	6.87	6.87	189.62	194.85	194.54	195.11	199.92
Building materials and garden supplies	52	7.85	7.87	8.08	8.06	-	282.60	283.32	288.46	286.94	-
Lumber and other building materials	521	8.19	8.26	8.43	8.43	-	309.58	310.58	316.97	315.28	-
Hardware stores	525	6.58	6.59	6.83	6.79	-	210.56	214.83	216.51	216.60	-
General merchandise stores	53	6.78	6.72	6.84	6.76	-	187.81	205.63	190.84	191.31	-
Department stores	531	7.01	6.94	6.98	6.92	-	193.48	211.67	194.04	195.14	-
Variety stores	533	5.33	5.41	5.69	5.65	-	150.31	175.83	158.18	159.90	-
Misc. general merchandise stores	539	5.96	5.92	6.48	6.32	-	168.67	178.19	186.62	185.81	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ²	Dec. 1990 ²
Retail trade—Continued											
Food stores	54	29.5	29.6	29.2	29.5	-	-	-	-	-	-
Grocery stores	541	29.7	29.6	29.4	29.7	-	-	-	-	-	-
Retail bakeries	546	28.9	29.2	28.7	28.5	-	-	-	-	-	-
Automotive dealers and service stations	55	36.0	36.0	36.0	36.0	-	-	-	-	-	-
New and used car dealers	551	37.0	37.0	37.1	37.1	-	-	-	-	-	-
Auto and home supply stores	553	37.9	37.7	37.9	38.1	-	-	-	-	-	-
Gasoline service stations	554	33.8	34.1	33.5	33.5	-	-	-	-	-	-
Automotive dealers, nec	559	36.2	36.6	35.1	34.3	-	-	-	-	-	-
Apparel and accessory stores	56	26.5	27.7	26.6	26.7	-	-	-	-	-	-
Men's and boys' clothing stores	561	27.7	30.0	27.3	27.2	-	-	-	-	-	-
Women's clothing stores	562	23.8	24.6	23.7	23.7	-	-	-	-	-	-
Family clothing stores	565	26.8	28.0	27.0	27.1	-	-	-	-	-	-
Shoe stores	566	29.3	30.7	30.2	30.6	-	-	-	-	-	-
Furniture and home furnishings stores	57	32.9	33.5	32.6	32.5	-	-	-	-	-	-
Furniture and home furnishings stores	571	33.4	33.9	33.0	33.1	-	-	-	-	-	-
Household appliance stores	572	33.3	34.0	33.2	33.0	-	-	-	-	-	-
Radio, television, and computer stores	573	32.0	32.7	31.7	31.5	-	-	-	-	-	-
Radio, television, and electronic stores	5731	31.7	33.0	31.4	31.2	-	-	-	-	-	-
Record and prerecorded tape stores	5735	26.1	27.1	26.4	26.4	-	-	-	-	-	-
Eating and drinking places ⁴	58	25.0	25.0	24.7	24.5	-	-	-	-	-	-
Miscellaneous retail establishments	59	29.2	30.6	29.3	29.2	-	-	-	-	-	-
Drug stores and proprietary stores	591	27.1	27.8	27.4	27.4	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	27.4	29.5	28.0	27.5	-	-	-	-	-	-
Nonstore retailers	596	33.4	34.8	32.4	32.7	-	-	-	-	-	-
Fuel dealers	598	39.1	40.8	37.3	38.0	-	-	-	-	-	-
Retail stores, nec	599	31.1	32.5	31.0	30.9	-	-	-	-	-	-
Finance, insurance, and real estate⁵		35.6	35.6	35.5	35.6	36.2	-	-	-	-	-
Depository institutions	60	35.3	35.3	35.2	35.2	-	-	-	-	-	-
Commercial banks	602	35.2	35.1	35.0	35.1	-	-	-	-	-	-
Credit unions	606	35.8	35.6	35.3	35.4	-	-	-	-	-	-
Nondepository institutions	61	37.5	37.2	37.4	37.2	-	-	-	-	-	-
Personal credit institutions	614	38.1	37.5	37.6	37.4	-	-	-	-	-	-
Security and commodity brokers:											
Security and commodity services	628	37.4	36.9	37.2	37.6	-	-	-	-	-	-
Insurance carriers	63	37.1	37.1	37.3	37.4	-	-	-	-	-	-
Life insurance	631	37.0	37.0	36.8	37.1	-	-	-	-	-	-
Medical service and health insurance	632	38.0	37.8	38.2	38.4	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	36.8	36.9	37.2	37.3	-	-	-	-	-	-
Services		32.5	32.5	32.4	32.4	32.8	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels ⁴	701	30.8	29.8	30.9	30.5	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.5	34.2	34.0	34.1	-	-	-	-	-	-
Beauty shops ⁴	723	29.6	29.7	29.2	29.5	-	-	-	-	-	-
Miscellaneous personal services	729	23.4	22.8	25.4	25.5	-	-	-	-	-	-
Business services	73	33.3	33.4	33.1	33.2	-	-	-	-	-	-
Advertising	731	36.6	36.9	36.1	36.3	-	-	-	-	-	-
Services to buildings	734	28.9	28.8	28.6	28.6	-	-	-	-	-	-
Personnel supply services:											
Help supply services	7363	30.9	31.1	30.7	31.0	-	-	-	-	-	-
Computer and data processing services	737	38.1	38.2	37.8	37.7	-	-	-	-	-	-
Miscellaneous business services	738	34.6	34.7	34.2	34.2	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^P	Dec. 1990 ^P
Retail trade—Continued											
Food stores	54	\$7.25	\$7.24	\$7.45	\$7.57	-	\$213.88	\$214.30	\$217.54	\$223.32	-
Grocery stores	541	7.35	7.35	7.54	7.68	-	218.30	217.56	221.68	228.10	-
Retail bakeries	546	6.14	6.23	6.42	6.42	-	177.45	181.92	184.25	182.97	-
Automotive dealers and service stations	55	8.64	8.69	8.98	9.01	-	311.04	312.84	323.28	324.36	-
New and used car dealers	551	10.60	10.67	11.04	11.08	-	392.20	394.79	409.58	411.07	-
Auto and home supply stores	553	7.66	7.71	7.86	7.90	-	290.31	290.67	297.89	300.99	-
Gasoline service stations	554	6.03	6.10	6.23	6.26	-	203.81	208.01	208.71	209.71	-
Automotive dealers, nec	559	10.11	10.48	10.77	10.91	-	365.98	383.57	378.03	374.21	-
Apparel and accessory stores	56	6.13	6.13	6.38	6.38	-	162.45	169.80	169.71	170.35	-
Men's and boys' clothing stores	561	7.43	7.36	7.71	7.64	-	205.81	220.80	210.48	207.81	-
Women's clothing stores	562	5.75	5.76	6.16	6.11	-	136.85	141.70	145.99	144.81	-
Family clothing stores	565	6.11	6.02	6.33	6.41	-	163.75	168.56	170.91	173.71	-
Shoe stores	566	6.11	6.26	6.16	6.20	-	179.02	192.18	186.03	189.72	-
Furniture and home furnishings stores	57	8.41	8.56	8.59	8.64	-	276.69	286.76	280.03	280.80	-
Furniture and home furnishings stores	571	8.28	8.41	8.47	8.54	-	276.55	285.10	279.51	282.67	-
Household appliance stores	572	8.87	9.02	8.85	8.90	-	295.37	306.68	293.82	293.70	-
Radio, television, and computer stores	573	8.48	8.68	8.72	8.74	-	271.36	283.84	276.42	275.31	-
Radio, television, and electronic stores	5731	8.53	9.03	8.73	8.76	-	270.40	297.99	274.12	273.31	-
Record and prerecorded tape stores	5735	4.81	4.77	5.37	5.33	-	125.54	129.27	141.77	140.71	-
Eating and drinking places ⁴	58	4.82	4.88	5.05	5.06	-	120.50	122.00	124.74	123.97	-
Miscellaneous retail establishments	59	6.87	6.86	7.21	7.18	-	200.60	209.92	211.25	209.66	-
Drug stores and proprietary stores	591	6.54	6.53	6.94	6.93	-	177.23	181.53	190.16	189.88	-
Miscellaneous shopping goods stores	594	6.39	6.34	6.77	6.71	-	175.09	187.03	189.56	184.53	-
Nonstore retailers	596	7.73	7.73	7.82	7.80	-	258.18	269.00	253.37	255.06	-
Fuel dealers	598	9.65	10.02	9.97	10.21	-	377.32	408.82	371.88	387.98	-
Retail stores, nec	599	7.06	7.02	7.48	7.42	-	219.57	228.15	231.88	229.28	-
Finance, insurance, and real estate⁵		9.67	9.73	10.10	10.12	\$10.21	344.25	346.39	358.55	360.27	\$369.60
Depository institutions	60	8.25	8.30	8.55	8.56	-	291.23	292.99	300.96	301.31	-
Commercial banks	602	7.97	8.00	8.16	8.17	-	280.54	280.80	285.60	286.77	-
Credit unions	606	7.89	7.94	8.15	8.19	-	282.46	282.66	287.70	289.93	-
Nondepository institutions	61	9.94	10.19	10.51	10.50	-	372.75	379.07	393.07	390.60	-
Personal credit institutions	614	8.92	9.28	9.40	9.40	-	339.85	348.00	353.44	351.56	-
Security and commodity brokers: Security and commodity services	628	13.42	13.21	13.41	13.51	-	501.91	487.45	498.85	507.98	-
Insurance carriers	63	10.81	10.85	11.28	11.31	-	401.05	402.54	420.74	422.99	-
Life insurance	631	10.03	10.11	10.45	10.39	-	371.11	374.07	384.56	385.47	-
Medical service and health insurance	632	10.50	10.50	10.76	10.86	-	399.00	396.90	411.03	417.02	-
Fire, marine, and casualty insurance	633	11.60	11.64	12.15	12.22	-	426.88	429.52	451.98	455.81	-
Services		9.61	9.68	9.99	10.05	10.13	312.33	314.60	323.68	325.62	332.26
Hotels and other lodging places: Hotels and motels ⁴	701	6.85	6.96	7.06	7.15	-	210.98	207.41	218.15	218.08	-
Personal services: Laundry, cleaning, and garment services	721	6.66	6.71	6.90	6.92	-	229.77	229.48	234.60	235.97	-
Beauty shops ⁴	723	7.03	7.08	7.05	7.14	-	208.09	210.28	205.86	210.63	-
Miscellaneous personal services	729	7.26	7.32	7.50	7.60	-	169.88	166.90	190.50	193.80	-
Business services	73	9.23	9.28	9.59	9.63	-	307.36	309.95	317.43	319.72	-
Advertising	731	13.10	13.22	13.60	13.53	-	479.46	487.82	490.96	491.14	-
Services to buildings	734	7.02	7.06	7.21	7.23	-	202.88	203.33	206.21	206.78	-
Personnel supply services: Help supply services	7363	7.86	7.90	8.05	8.13	-	242.87	245.69	247.14	252.03	-
Computer and data processing services	737	14.43	14.50	15.23	15.27	-	549.78	553.90	575.69	575.68	-
Miscellaneous business services	738	7.77	7.73	8.03	8.02	-	268.84	268.23	274.63	274.28	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Services—Continued											
Detective and armored car services	7381	34.1	34.4	33.5	33.4	-	-	-	-	-	-
Auto repair, services, and parking	75	36.6	36.7	36.5	36.6	-	-	-	-	-	-
Automotive repair shops	753	38.2	38.5	38.0	38.4	-	-	-	-	-	-
Miscellaneous repair services	76	37.8	37.8	38.0	37.9	-	-	-	-	-	-
Motion pictures	78	27.0	27.4	27.2	27.6	-	-	-	-	-	-
Motion picture production and services	781	34.0	36.0	35.1	34.7	-	-	-	-	-	-
Amusement and recreation services	79	27.0	27.0	26.3	26.5	-	-	-	-	-	-
Misc. amusement and recreation services	799	26.3	26.5	25.5	25.6	-	-	-	-	-	-
Health services	80	32.4	32.5	32.4	32.5	-	-	-	-	-	-
Offices and clinics of medical doctors	801	31.9	31.9	31.5	31.6	-	-	-	-	-	-
Offices and clinics of dentists	802	28.3	28.5	28.3	28.4	-	-	-	-	-	-
Nursing and personal care facilities	805	31.8	31.8	32.0	32.1	-	-	-	-	-	-
Hospitals	806	34.0	34.1	34.0	34.1	-	-	-	-	-	-
Home health care services	808	25.1	25.1	25.4	25.8	-	-	-	-	-	-
Legal services	81	34.8	34.9	34.6	34.7	-	-	-	-	-	-
Engineering and management services	87	37.2	37.2	37.0	37.0	-	-	-	-	-	-
Engineering and architectural services	871	39.1	38.9	39.1	39.0	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	872	36.3	36.9	37.0	36.7	-	-	-	-	-	-
Research and testing services	873	36.5	36.4	36.0	36.0	-	-	-	-	-	-
Management and public relations	874	35.7	35.7	35.0	35.3	-	-	-	-	-	-
Services, nec	89	36.8	37.0	36.3	36.0	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Services—Continued											
Detective and armored car services	7381	\$6.04	\$6.06	\$6.34	\$6.37	-	\$205.96	\$208.46	\$212.39	\$212.76	-
Auto repair, services, and parking	75	8.61	8.69	8.86	8.90	-	315.13	318.92	323.39	325.74	-
Automotive repair shops	753	9.47	9.57	9.72	9.73	-	361.75	368.45	369.36	373.63	-
Miscellaneous repair services	76	10.17	10.19	10.40	10.40	-	384.43	385.18	395.20	394.16	-
Motion pictures	78	10.60	10.63	11.99	12.43	-	286.20	291.26	326.13	343.07	-
Motion picture production and services	781	16.44	16.49	18.04	18.91	-	558.96	593.64	633.20	656.18	-
Amusement and recreation services	79	8.36	8.35	8.35	8.66	-	225.72	225.45	219.61	229.49	-
Misc. amusement and recreation services	799	7.50	7.51	7.45	7.53	-	197.25	199.02	189.98	192.77	-
Health services	80	10.07	10.13	10.58	10.62	-	326.27	329.23	342.79	345.15	-
Offices and clinics of medical doctors	801	10.07	10.18	10.81	10.85	-	321.23	324.74	340.52	342.86	-
Offices and clinics of dentists	802	9.59	9.75	10.31	10.31	-	271.40	277.88	291.77	292.80	-
Nursing and personal care facilities	805	6.95	7.01	7.36	7.38	-	221.01	222.92	235.52	236.90	-
Hospitals	806	11.49	11.52	11.96	12.03	-	390.66	392.83	406.64	410.22	-
Home health care services	808	8.14	8.30	8.90	8.99	-	204.31	208.33	226.06	231.94	-
Legal services	81	13.58	13.72	14.24	14.31	-	472.58	478.83	492.70	496.56	-
Engineering and management services	87	13.25	13.37	13.74	13.80	-	492.90	497.36	508.38	510.60	-
Engineering and architectural services	871	14.32	14.48	14.93	15.02	-	559.91	563.27	583.76	585.78	-
Accounting, auditing, and bookkeeping	872	11.82	11.93	12.37	12.33	-	429.07	440.22	457.69	452.51	-
Research and testing services	873	13.79	13.92	14.30	14.39	-	503.34	506.69	514.80	518.04	-
Management and public relations	874	12.27	12.38	12.46	12.57	-	438.04	441.97	436.10	443.72	-
Services, nec	89	12.82	13.01	14.07	13.95	-	471.78	481.37	510.74	502.20	-

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

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

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

⁴ Money payments only; tips, not included.

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

- Data not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

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

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

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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Oct. 1989	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Oct. 1989	Nov. 1989	Oct. 1990	Nov. 1990 ^P
Average hourly earnings, excluding lump-sum payments	\$15.23	\$15.17	\$15.89	\$15.99	\$14.37	\$14.37	\$14.95	\$15.01
Average hourly earnings, including lump-sum payments	16.08	16.04	16.34	16.46	14.85	14.79	15.38	15.42

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Manufacturing	\$10.11	\$10.20	\$10.46	\$10.49	\$10.59
Durable goods	10.61	10.69	10.99	10.98	11.09
Lumber and wood products	8.58	8.63	8.78	8.79	(?)
Furniture and fixtures	8.13	8.13	8.35	8.40	(?)
Stone, clay, and glass products	10.33	10.39	10.60	10.67	(?)
Primary metal industries	11.89	11.91	12.32	12.39	(?)
Fabricated metal products	10.17	10.24	10.47	10.48	(?)
Industrial machinery and equipment	10.97	11.02	11.36	11.41	(?)
Electronic and other electrical equipment	9.72	9.73	10.05	10.07	(?)
Transportation equipment	13.14	13.27	13.71	13.59	(?)
Instruments and related products	10.62	10.69	11.07	11.07	(?)
Miscellaneous manufacturing	8.16	8.29	8.29	8.35	(?)
Nondurable goods	9.43	9.53	9.75	9.85	\$9.90
Food and kindred products	8.92	9.06	9.04	9.22	(?)
Tobacco products	14.59	14.78	15.52	16.40	(?)
Textile mill products	7.43	7.48	7.75	7.79	(?)
Apparel and other textile products	6.26	6.29	6.52	6.49	(?)
Paper and allied products	11.47	11.49	11.74	11.85	(?)
Printing and publishing	10.63	10.64	10.91	10.93	(?)
Chemicals and allied products	12.64	12.66	13.02	13.05	(?)
Petroleum and coal products	14.62	14.83	15.29	15.50	(?)
Rubber and misc. plastics products	9.14	9.24	9.47	9.53	(?)
Leather and leather products	6.50	6.58	6.80	6.81	(?)

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

² Not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987

Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

C-4. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, in current and constant (1982) dollars

Industry	Average hourly earnings					Average weekly earnings				
	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p	Nov. 1989	Dec. 1989	Oct. 1990	Nov. 1990 ^p	Dec. 1990 ^p
Total private:										
Current dollars	\$9.81	\$9.84	\$10.16	\$10.17	\$10.21	\$338.45	\$340.46	\$348.49	\$348.83	\$355.31
Constant (1982) dollars	7.64	7.65	7.47	7.46	(¹)	263.59	264.74	256.05	255.74	(¹)
Mining:										
Current dollars	13.27	13.46	13.69	13.78	\$13.80	581.23	588.20	610.57	620.10	\$632.04
Constant (1982) dollars	10.33	10.47	10.06	10.10	(¹)	452.67	457.39	448.62	454.62	(¹)
Construction:										
Current dollars	13.69	13.84	13.92	13.82	\$13.86	520.22	512.08	528.96	527.92	\$533.61
Constant (1982) dollars	10.66	10.76	10.23	10.13	(¹)	405.16	398.20	388.66	387.04	(¹)
Manufacturing:										
Current dollars	10.59	10.68	10.95	10.98	\$11.09	435.25	441.08	447.86	447.98	\$460.24
Constant (1982) dollars	8.25	8.30	8.05	8.05	(¹)	338.98	342.99	329.07	328.43	(¹)
Transportation and public utilities:										
Current dollars	12.71	12.76	13.07	13.09	\$13.16	491.88	493.81	504.50	506.58	\$513.24
Constant (1982) dollars	9.90	9.92	9.60	9.60	(¹)	383.08	383.99	370.68	371.39	(¹)
Wholesale trade:										
Current dollars	10.56	10.63	10.87	10.95	\$11.08	402.34	406.07	414.15	416.10	\$425.47
Constant (1982) dollars	8.22	8.27	7.99	8.03	(¹)	313.35	315.76	304.30	305.06	(¹)
Retail trade:										
Current dollars	6.63	6.65	6.85	6.87	\$6.87	189.62	194.85	194.54	195.11	\$199.92
Constant (1982) dollars	5.16	5.17	5.03	5.04	(¹)	147.68	151.52	142.94	143.04	(¹)
Finance, insurance, and real estate:										
Current dollars	9.67	9.73	10.10	10.12	\$10.21	344.25	346.39	358.55	360.27	\$369.60
Constant (1982) dollars	7.53	7.57	7.42	7.42	(¹)	268.11	269.35	263.45	264.13	(¹)
Services:										
Current dollars	9.61	9.68	9.99	10.05	\$10.13	312.33	314.60	323.68	325.62	\$332.26
Constant (1982) dollars	7.48	7.53	7.34	7.37	(¹)	243.25	244.63	237.83	238.72	(¹)

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

² Not available.

^p = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and

Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

**C-5. Average weekly hours of production or nonsupervisory workers¹ on private nonfarm payrolls
by major industry and manufacturing group, seasonally adjusted**

Industry	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Total private	34.4	34.4	34.6	34.6	34.5	34.5	34.7	34.5	34.5	34.7	34.2	34.4	34.6
Mining	43.0	43.6	43.7	43.5	43.4	43.6	44.4	43.7	43.9	44.7	44.0	44.9	45.1
Construction	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Manufacturing	40.6	40.7	40.8	40.8	40.7	40.9	41.0	40.9	41.0	41.0	40.7	40.5	40.8
<i>Overtime hours</i>	3.7	3.6	3.6	3.7	3.5	3.8	3.8	3.7	3.8	3.7	3.6	3.5	3.7
Durable goods	41.2	41.3	41.3	41.4	41.2	41.5	41.6	41.5	41.5	41.7	41.3	40.9	41.3
<i>Overtime hours</i>	3.7	3.6	3.6	3.8	3.5	3.9	3.9	3.8	3.9	3.8	3.6	3.5	3.7
Lumber and wood products	40.0	40.4	40.1	40.4	40.2	40.4	40.3	40.2	40.4	40.7	39.8	39.5	40.0
Furniture and fixtures	39.1	39.6	39.3	39.2	39.0	39.2	39.3	39.6	39.4	39.1	38.6	38.5	38.8
Stone, clay, and glass products	41.6	42.3	42.2	42.0	42.0	42.1	42.3	41.7	42.3	42.2	41.2	41.7	42.1
Primary metal industries	42.5	42.6	42.5	42.7	41.8	43.0	43.0	43.1	42.9	43.0	42.9	42.5	42.7
Blast furnaces and basic steel products ..	42.9	43.1	42.9	43.0	42.9	43.5	43.3	44.1	43.5	43.9	43.8	43.5	43.9
Fabricated metal products	41.2	41.1	41.4	41.5	41.2	41.7	41.6	41.7	41.6	41.6	41.2	40.8	41.4
Industrial machinery and equipment	42.1	42.1	42.1	42.0	41.8	42.1	42.0	42.0	42.1	42.1	42.1	41.8	42.0
Electronic and other electrical equipment ..	40.5	40.9	41.1	41.0	40.9	40.9	41.0	40.7	40.6	41.1	40.7	40.6	41.0
Transportation equipment	41.7	41.5	41.6	42.0	41.9	42.5	42.6	42.8	42.6	42.8	42.5	41.1	41.8
Motor vehicles and equipment	42.2	41.0	41.5	42.3	41.8	43.4	43.7	43.6	43.7	43.5	42.9	40.1	41.7
Instruments and related products	41.0	40.9	41.0	41.1	41.2	41.1	41.2	41.2	41.3	41.3	41.0	40.9	41.4
Miscellaneous manufacturing	39.3	39.5	39.5	39.4	39.2	39.4	39.4	39.5	39.9	39.9	39.8	39.6	39.1
Nondurable goods	40.0	40.0	40.0	40.0	40.0	40.1	40.3	40.1	40.2	40.2	40.0	40.0	40.2
<i>Overtime hours</i>	3.6	3.5	3.5	3.6	3.4	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.7
Food and kindred products	40.7	40.6	40.6	40.7	40.6	40.8	40.9	40.5	41.0	41.2	40.6	40.7	41.1
Tobacco products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	40.2	40.3	40.2	40.0	40.0	40.2	40.4	40.2	40.0	40.0	39.9	39.6	40.1
Apparel and other textile products	36.4	36.6	36.6	36.3	36.4	36.6	36.7	36.6	36.6	36.6	36.4	36.3	36.6
Paper and allied products	43.2	43.2	43.1	43.2	43.3	43.3	43.5	43.5	43.5	43.2	43.5	43.5	43.6
Printing and publishing	37.7	37.9	37.9	38.0	37.8	37.9	38.0	38.0	38.2	38.0	37.9	37.8	37.9
Chemicals and allied products	42.6	42.7	42.4	42.5	42.6	42.6	42.6	42.4	42.3	42.7	42.6	42.5	42.7
Petroleum and coal products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Rubber and misc. plastics products	40.9	40.8	41.2	41.4	40.9	41.4	41.6	41.5	41.3	41.4	41.1	40.8	40.9
Leather and leather products	37.4	37.4	37.7	37.7	37.5	37.4	37.5	37.4	37.7	37.5	37.2	36.7	37.2
Transportation and public utilities	38.6	38.3	38.7	39.0	39.0	39.1	39.2	39.0	38.9	39.1	38.4	38.6	38.9
Wholesale trade	38.1	38.0	38.0	38.1	38.1	38.0	38.1	38.1	38.1	38.2	37.9	38.0	38.3
Retail trade	28.8	28.8	28.9	29.0	29.0	29.0	29.0	28.9	28.7	28.9	28.4	28.7	28.6
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.6	32.5	32.6	32.5	32.6	32.5	32.6	32.6	32.5	32.8	32.3	32.5	32.9

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.

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

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(1982=100)

Industry	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Total private	123.3	123.6	124.4	124.4	124.2	124.6	125.3	124.8	124.6	125.3	123.1	123.4	124.2
Goods-producing	110.4	111.1	112.1	111.5	110.1	111.2	111.7	110.5	110.5	110.3	108.0	107.0	107.7
Mining	63.0	64.4	64.9	64.9	65.2	65.9	68.0	66.9	66.1	67.3	66.6	67.8	68.7
Construction	138.1	144.9	147.7	144.6	138.6	142.1	144.3	138.4	139.8	139.7	132.1	135.3	136.0
Manufacturing	107.6	106.8	107.6	107.5	107.0	107.5	107.6	107.4	107.1	106.8	105.6	103.5	104.2
Durable goods	107.1	105.9	107.2	107.3	106.5	107.3	107.1	107.1	106.5	105.9	104.6	101.8	102.6
Lumber and wood products	131.4	133.0	131.5	132.5	131.7	131.9	130.5	129.7	129.7	130.5	126.1	122.9	123.8
Furniture and fixtures	126.6	128.2	127.0	126.6	125.4	125.7	126.0	125.8	125.7	123.9	121.4	118.0	118.3
Stone, clay, and glass products	111.2	113.3	113.3	111.7	110.7	110.5	110.5	108.2	109.5	108.7	105.9	106.2	106.2
Primary metal industries	92.8	92.4	92.6	92.7	90.9	93.5	93.5	94.3	93.0	92.9	92.7	90.8	90.6
Blast furnaces and basic steel products	81.1	81.4	80.3	79.3	79.1	81.2	80.4	82.3	80.8	81.6	81.8	81.2	82.0
Fabricated metal products	107.7	106.1	107.4	107.7	107.2	108.3	107.8	108.5	108.1	107.4	105.9	103.5	104.5
Industrial machinery and equipment	99.5	99.7	99.4	98.8	98.2	98.9	98.4	98.5	98.1	96.8	96.8	95.6	95.4
Electronic and other electrical equipment	109.4	110.1	110.3	110.2	109.7	109.5	109.6	108.3	107.2	107.6	106.1	104.7	105.6
Transportation equipment	120.7	110.9	119.8	121.1	120.2	121.8	123.3	124.1	122.2	121.3	120.0	110.0	113.2
Motor vehicles and equipment	128.7	105.2	125.5	128.3	123.4	131.2	133.7	133.2	131.2	129.1	127.2	109.2	117.2
Instruments and related products	87.5	87.9	88.2	88.4	88.4	87.7	87.2	86.8	86.5	86.0	84.8	84.3	85.3
Miscellaneous manufacturing	104.3	105.9	105.6	104.6	102.9	104.2	102.7	104.5	104.8	104.8	103.8	102.5	101.9
Nondurable goods	108.3	108.2	108.0	107.8	107.6	107.9	108.2	107.7	108.0	107.9	106.9	106.0	106.5
Food and kindred products	108.4	108.4	108.3	108.5	108.7	109.2	108.7	107.9	109.7	110.4	108.9	109.0	110.3
Tobacco products	65.8	66.9	67.6	68.1	64.7	65.8	64.3	66.6	68.8	68.5	66.0	64.7	67.0
Textile mill products	103.1	103.0	102.2	101.2	101.2	100.9	101.2	100.6	100.1	99.4	97.6	96.8	97.1
Apparel and other textile products	95.5	95.2	94.4	92.7	92.9	92.9	93.0	92.4	92.4	92.3	91.3	89.8	90.4
Paper and allied products	110.2	110.4	110.3	110.4	110.8	110.4	111.4	111.6	111.8	110.8	111.4	110.5	111.2
Printing and publishing	127.0	128.0	128.1	128.4	127.6	128.1	128.6	129.0	129.6	128.3	127.8	126.7	126.6
Chemicals and allied products	105.3	105.4	104.4	104.3	104.6	104.6	104.4	104.3	103.2	104.1	103.9	103.5	104.1
Petroleum and coal products	87.9	86.9	88.4	89.2	88.0	88.0	93.0	88.3	88.0	89.9	86.8	93.3	90.3
Rubber and misc. plastics products	125.4	124.3	125.0	125.6	124.6	126.0	127.3	127.2	126.8	126.7	125.2	121.9	121.1
Leather and leather products	62.6	62.6	63.1	63.1	62.2	61.5	61.1	59.8	59.6	58.8	57.1	55.3	56.0
Service-producing	129.1	129.3	129.9	130.2	130.5	130.6	131.4	131.2	130.9	132.0	129.9	130.7	131.6
Transportation and public utilities	113.4	112.9	114.2	115.3	115.2	116.0	116.7	115.8	115.2	116.4	114.4	114.9	116.2
Wholesale trade	119.1	119.2	119.1	119.4	119.3	118.9	119.8	119.5	119.5	119.6	118.4	118.4	118.9
Retail trade	123.8	124.4	124.4	124.9	125.0	125.1	125.3	125.1	124.1	124.9	122.5	123.3	122.6
Finance, insurance, and real estate	121.0	121.4	122.2	122.3	122.6	122.5	122.9	123.1	122.9	124.1	121.2	122.0	123.9
Services	142.8	142.8	143.8	143.9	144.4	144.6	145.8	145.9	146.0	147.7	145.7	146.9	148.7

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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

C-7. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls, seasonally adjusted

Industry	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
Average hourly earnings													
Total private (in current dollars)	\$9.83	\$9.82	\$9.88	\$9.93	\$9.96	\$9.98	\$10.03	\$10.07	\$10.09	\$10.13	\$10.12	\$10.14	\$10.20
Mining	13.40	13.33	13.33	13.51	13.59	13.58	13.73	13.79	13.73	13.83	13.79	13.84	13.73
Construction	13.76	13.55	13.63	13.66	13.62	13.71	13.73	13.76	13.78	13.82	13.82	13.79	13.78
Manufacturing	10.62	10.57	10.67	10.73	10.75	10.81	10.86	10.89	10.90	10.93	10.97	10.97	11.03
Excluding overtime²	10.17	10.13	10.22	10.28	10.34	10.35	10.38	10.40	10.40	10.44	10.50	10.50	10.56
Transportation and public utilities	12.73	12.78	12.83	12.87	12.96	12.88	12.92	13.02	13.00	13.02	13.03	13.04	13.13
Wholesale trade	10.60	10.57	10.62	10.67	10.74	10.74	10.80	10.84	10.84	10.94	10.89	10.94	11.06
Retail trade	6.64	6.68	6.69	6.73	6.74	6.76	6.78	6.79	6.82	6.83	6.84	6.86	6.86
Finance, insurance, and real estate	9.75	9.73	9.77	9.82	9.88	9.87	9.98	10.08	10.06	10.17	10.11	10.10	10.23
Services	9.61	9.63	9.67	9.72	9.79	9.80	9.85	9.92	9.93	9.98	9.96	9.99	10.06
Total private (in constant dollars)³	7.63	7.54	7.55	7.56	7.57	7.58	7.58	7.58	7.54	7.50	7.45	7.44	(*)
Average weekly earnings													
Total private:													
In current dollars	338.15	337.81	341.85	343.58	343.62	344.31	348.04	347.42	348.11	351.51	346.10	348.82	352.92
In constant (1982) dollars ³	262.54	259.45	261.35	261.48	261.31	261.63	262.87	261.61	259.96	260.38	254.67	256.11	(*)

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

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

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

⁴ Not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Alabama	41.4	41.4	41.0	\$9.14	\$9.49	\$9.60	\$378.40	\$392.89	\$393.60
Birmingham	41.1	41.5	40.7	9.41	9.71	9.87	386.75	402.97	401.71
Mobile	42.0	42.8	43.7	11.41	11.17	11.33	479.22	475.84	485.12
Alaska	39.4	41.9	41.7	13.76	12.73	13.58	542.14	533.39	566.29
Arizona	41.8	40.8	40.3	9.90	10.40	10.43	411.84	424.32	420.33
Arkansas	41.4	42.1	41.1	8.31	8.65	8.81	344.03	364.17	353.87
Fayetteville-Springdale	41.9	40.4	40.9	7.59	7.92	7.77	318.02	319.97	317.79
Fort Smith	39.8	40.7	40.6	8.64	8.96	8.86	343.87	364.87	359.72
Little Rock-North Little Rock	42.3	41.9	41.4	9.03	9.09	9.05	381.97	380.87	374.67
Pine Bluff	44.9	44.2	43.1	10.49	10.42	10.75	471.00	460.56	483.33
California	40.8	40.8	40.8	11.22	11.60	11.61	455.53	473.28	471.37
Anaheim-Santa Ana	41.1	41.0	41.2	11.46	11.70	11.70	471.01	479.70	482.04
Bakersfield	38.2	40.6	40.0	12.02	12.25	12.26	459.16	497.35	490.40
Fresno	40.2	42.5	41.5	9.17	9.33	9.64	368.63	396.53	400.06
Los Angeles-Long Beach	40.7	40.4	40.7	10.68	11.12	11.07	434.68	449.25	450.55
Modesito	38.7	39.3	38.4	10.23	10.59	10.69	395.90	416.19	410.50
Oakland	40.8	41.3	41.5	13.29	13.61	13.75	542.23	562.09	570.63
Oxnard-Ventura	41.3	41.7	42.8	10.68	11.16	11.17	441.08	465.37	475.84
Riverside-San Bernardino	40.0	40.0	39.8	10.05	10.51	10.55	402.00	420.40	419.89
Sacramento	40.6	41.0	40.4	11.66	12.12	12.14	473.40	496.92	490.46
San Diego	40.9	41.3	40.6	11.28	11.67	11.69	461.35	461.97	474.61
San Francisco	38.3	39.6	39.5	12.67	13.22	13.18	492.92	523.51	520.61
San Jose	40.7	41.0	41.1	13.38	13.52	13.69	544.57	554.32	562.66
Santa Barbara-Santa Maria-Lompoc	39.6	40.6	40.9	11.23	11.90	12.02	444.71	483.14	491.62
Santa Rosa-Petaluma	38.9	39.9	39.2	10.57	11.38	11.37	411.17	454.06	445.70
Stockton	40.6	42.6	41.2	10.94	11.25	11.30	444.16	461.50	465.56
Vallejo-Fairfield-Napa	43.3	41.9	42.5	13.45	13.56	13.49	582.39	568.16	573.33
Colorado	41.3	41.4	41.5	10.47	11.24	11.28	432.41	465.34	468.12
Denver	39.8	40.5	40.4	11.67	12.64	12.57	464.47	511.92	507.83
Connecticut	42.0	42.5	42.3	11.23	11.54	11.56	471.66	490.45	468.99
Bridgeport-Milford	41.2	41.5	41.6	11.57	12.19	12.21	476.68	505.89	507.94
Hartford	42.7	42.2	42.0	11.94	12.49	12.47	509.84	527.08	523.74
New Britain	42.1	42.8	42.4	11.76	12.50	12.42	495.10	535.00	526.61
New Haven-Meriden	40.8	41.4	40.9	10.82	11.12	11.14	441.46	460.37	455.63
Stamford	41.4	39.5	41.1	11.33	12.64	12.30	469.06	499.28	505.53
Waterbury	42.2	42.3	42.9	10.26	10.87	10.74	432.97	459.80	460.75
Delaware	41.6	42.4	41.0	12.21	12.44	12.45	507.94	527.46	510.45
Wilmington	43.2	43.5	42.1	15.08	15.52	15.27	651.46	675.12	642.87
District of Columbia:									
Washington MSA	39.6	39.3	39.4	12.06	12.57	12.61	477.58	494.00	496.83
Florida	41.0	40.7	40.1	8.68	9.06	9.08	355.88	368.74	364.11
Fort Lauderdale-Hollywood-Pompano Beach	41.4	41.2	40.7	8.67	9.11	9.22	358.94	375.33	375.25
Jacksonville	40.9	40.7	40.9	9.33	9.76	9.85	381.60	397.23	394.69
Miami-Hialeah	39.6	39.9	39.6	7.36	7.55	7.54	291.46	301.25	298.58
Orlando	40.1	41.8	40.9	10.06	10.31	10.26	403.41	430.96	419.63
Pensacola	43.3	44.9	44.9	11.18	11.78	11.84	484.09	528.92	531.62
Tampa-St. Petersburg-Clearwater	40.6	40.2	39.6	8.94	9.37	9.38	362.96	376.67	371.45
West Palm Beach-Boca Raton-Delray Beach	41.6	39.5	38.6	9.38	9.85	9.93	390.21	389.08	383.30
Georgia	41.3	41.2	40.8	8.97	9.28	9.30	370.46	382.34	379.44
Atlanta	41.8	41.9	41.2	10.25	10.50	10.56	428.45	439.95	435.07
Savannah	44.9	46.0	45.2	11.74	11.67	11.88	527.13	536.82	527.94
Hawaii	40.5	41.8	41.0	10.44	11.04	10.91	422.82	461.47	447.31
Honolulu	38.7	39.7	39.1	10.71	11.50	11.36	414.48	456.55	444.18
Idaho	38.9	42.7	37.3	10.53	10.33	11.09	409.62	441.09	413.66

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Oct. 1989	Sept. 1990	Oct. 1990 ^a	Oct. 1989	Sept. 1990	Oct. 1990 ^a	Oct. 1989	Sept. 1990	Oct. 1990 ^a
Illinois	42.0	41.6	41.6	\$11.26	\$11.47	\$11.48	\$472.92	\$477.15	\$477.57
Aurora-Elgin	41.5	41.9	41.7	10.79	11.05	11.20	447.79	463.00	467.04
Bloomington-Normal	43.1	45.5	46.0	12.57	14.04	14.19	541.77	638.62	652.74
Champaign-Urbana-Rantoul	40.6	42.2	41.9	9.91	9.93	9.94	402.35	418.05	416.49
Chicago	42.2	41.6	41.4	10.98	11.21	11.22	463.36	466.34	464.51
Davenport-Rock Island-Moline	41.4	42.3	41.4	12.99	13.24	13.29	537.79	560.05	550.21
Decatur	44.6	43.9	43.3	14.56	14.91	15.02	649.38	654.55	650.37
Joliet	41.9	42.5	41.7	12.91	13.16	13.16	540.93	559.30	548.77
Kankakee	40.2	43.5	43.8	11.80	11.80	11.82	474.36	513.30	517.72
Lake County	40.2	40.0	40.0	11.79	11.55	11.49	473.96	462.00	459.60
Peoria	42.6	44.4	42.1	13.57	14.04	13.93	560.80	623.38	586.45
Rockford	41.6	42.6	41.5	12.32	12.72	12.58	512.51	541.87	522.07
Springfield	37.4	38.7	39.5	10.24	11.05	11.21	382.98	427.64	442.80
Indiana	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Iowa	41.3	41.2	40.5	10.64	11.40	11.33	447.69	489.68	458.87
Cedar Rapids	39.6	39.8	38.9	12.35	14.09	13.71	489.06	580.78	533.32
Des Moines	41.8	40.5	40.3	12.10	12.54	12.35	505.78	507.87	497.71
Dubuque	41.4	42.9	41.2	11.82	12.31	12.07	481.07	528.10	497.28
Sioux City	41.4	40.9	40.6	8.83	9.07	9.07	365.56	370.96	368.24
Kansas	37.9	40.8	40.8	10.61	11.05	11.02	402.12	450.84	449.82
Topeka	40.8	40.9	41.7	13.27	12.72	12.72	541.42	520.25	530.42
Wichita	32.3	40.5	41.1	10.65	12.06	12.38	350.46	488.43	508.82
Kentucky	39.9	40.7	40.5	10.43	10.68	10.78	416.16	434.68	436.59
Lexington-Fayette	41.2	41.8	41.7	10.75	11.30	11.53	442.90	472.34	480.80
Louisville	40.3	42.4	42.3	11.85	11.98	12.13	477.56	507.95	513.10
Louisiana	43.4	44.0	43.1	11.01	11.70	11.83	477.83	514.80	509.87
Baton Rouge	44.1	44.2	43.2	13.26	13.72	14.12	584.77	606.42	609.98
New Orleans	41.9	41.9	41.4	10.76	11.20	11.17	450.84	469.28	462.44
Shreveport	41.6	45.5	45.3	10.75	11.89	12.28	447.20	541.00	556.28
Maine	40.0	40.3	40.2	10.08	10.75	10.81	403.20	433.23	434.56
Lewiston-Auburn	37.6	39.4	38.9	9.10	9.49	9.34	342.16	373.91	363.33
Portland	40.2	38.1	38.0	10.65	11.08	10.53	428.13	422.15	400.14
Maryland	41.6	41.3	41.1	11.25	11.72	11.66	468.00	484.04	479.23
Baltimore MSA	41.4	41.3	41.1	11.70	12.18	12.14	484.38	503.03	498.95
Massachusetts	40.4	40.6	40.2	11.05	11.39	11.45	446.42	462.43	460.29
Boston	40.3	40.7	40.4	11.77	12.29	12.38	474.33	500.20	500.15
Springfield	41.8	41.5	41.2	10.46	10.83	10.83	438.06	449.45	446.20
Worcester	40.0	41.3	41.0	10.85	11.08	11.01	434.00	457.80	451.41
Michigan	42.9	43.1	42.9	13.59	14.02	14.12	583.01	604.26	605.75
Ann Arbor	44.4	44.3	43.7	14.52	15.95	15.58	644.69	706.58	680.85
Battle Creek	42.8	42.2	43.3	14.53	14.77	14.52	621.88	623.29	628.72
Detroit	43.9	44.3	43.5	14.74	15.06	15.09	647.09	667.16	656.41
Flint	43.4	42.9	42.9	18.94	17.60	17.85	735.20	755.04	765.78
Grand Rapids	41.5	41.1	42.0	11.62	11.94	11.93	482.23	490.73	501.06
Jackson	41.4	42.4	42.3	10.52	10.86	10.71	435.53	480.46	453.03
Kalamazoo	41.7	43.1	42.6	13.08	14.07	14.25	545.44	606.42	607.05
Lansing-East Lansing	41.9	42.2	44.8	15.09	15.70	17.10	632.27	662.54	766.08
Muskegon	40.5	41.2	39.6	12.24	12.68	12.69	495.72	522.42	502.52
Saginaw-Bay City-Midland	42.7	44.2	43.0	15.41	16.47	16.52	658.01	727.97	710.36
Minnesota	40.9	41.2	40.2	11.06	11.26	11.31	453.17	463.91	454.66
Duluth	39.9	41.2	40.5	12.17	11.65	11.51	485.58	479.98	466.16
Minneapolis-St. Paul	41.0	41.1	40.2	11.65	11.99	11.99	477.65	492.79	482.00
St. Cloud	38.9	40.6	40.3	10.21	10.23	10.15	397.17	415.34	409.05
Mississippi	39.9	39.9	39.2	8.03	8.43	8.48	320.40	336.36	332.42
Jackson	40.0	40.9	39.6	9.08	9.42	9.38	363.20	385.28	371.45

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Missouri	40.8	41.0	40.9	\$10.61	\$10.84	\$10.91	\$432.89	\$444.44	\$446.22
Kansas City	41.3	41.0	41.4	11.70	11.55	11.63	483.21	473.55	481.48
St. Louis	42.2	42.5	42.2	12.59	13.03	13.05	531.30	553.78	550.71
Springfield	40.3	41.0	40.7	9.03	9.28	9.35	363.91	380.48	380.55
Montana	40.5	40.8	41.1	11.15	11.92	11.40	451.58	486.34	468.54
Nebraska	40.9	41.5	41.2	9.64	9.78	9.79	394.28	405.87	403.35
Lincoln	40.8	40.4	40.2	10.74	11.19	11.04	438.19	452.08	443.81
Omaha	41.4	41.9	41.5	10.34	10.30	10.46	428.08	431.57	434.09
Nevada	40.6	40.5	40.7	10.54	10.96	10.92	427.92	443.88	444.44
Las Vegas	42.4	41.6	40.5	12.96	12.43	12.44	549.50	517.09	503.82
New Hampshire	40.8	40.7	40.2	10.65	10.81	10.87	434.52	439.97	436.97
Manchester	40.8	41.3	41.3	10.67	11.08	10.79	435.34	456.78	445.63
Nashua	40.1	40.8	40.2	13.45	13.65	14.09	539.35	556.93	566.42
Portsmouth-Dover-Rochester	40.9	41.4	40.7	9.76	10.05	10.12	399.18	416.07	411.88
New Jersey	40.7	40.9	40.9	11.21	11.73	11.70	456.25	478.76	478.53
New Mexico	40.2	38.6	39.7	8.52	9.05	8.93	342.50	349.33	354.52
Albuquerque	41.1	39.7	40.5	8.69	9.41	9.31	357.16	373.58	377.06
New York	39.8	40.0	39.8	10.75	11.24	11.27	427.85	449.60	448.55
Albany-Schenectady-Troy	41.9	41.0	40.9	11.39	11.98	11.89	477.24	491.18	486.30
Binghamton	40.6	39.7	39.6	9.48	10.22	10.06	384.89	405.73	398.38
Buffalo	41.3	43.7	43.4	12.79	13.17	13.14	528.23	575.53	570.28
Elmira	40.0	40.4	39.9	9.44	10.16	10.12	377.60	410.46	403.79
Glens Falls	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Nassau-Suffolk	39.8	39.7	39.6	11.82	11.90	11.84	462.48	472.43	468.86
New York PMSA	37.0	37.2	37.1	10.09	10.33	10.38	373.33	384.28	385.10
New York City	38.5	37.0	37.0	9.91	10.16	10.22	361.72	375.92	378.14
Niagara Falls	41.4	41.6	41.2	13.95	14.42	14.59	577.53	599.87	601.11
Orange County	39.2	39.8	39.4	9.41	9.48	9.75	368.87	377.30	384.15
Poughkeepsie	40.0	40.4	40.7	11.01	10.82	10.72	440.40	437.13	436.30
Rochester	42.1	43.1	43.0	12.24	12.79	12.97	515.30	551.25	557.71
Rockland County	38.7	41.2	39.3	8.84	9.21	9.53	342.11	379.45	374.53
Syracuse	40.9	41.3	40.8	11.73	12.62	12.38	479.78	521.21	505.10
Utica-Rome	40.1	41.0	40.3	10.05	10.41	10.36	403.01	426.81	417.51
Westchester County	41.0	37.5	36.9	11.86	12.19	12.01	486.26	457.13	443.17
North Carolina	40.8	40.2	39.9	8.46	8.86	8.84	343.48	356.17	352.72
Asheville	41.2	41.1	41.5	8.46	8.86	8.83	349.38	384.15	366.45
Charlotte-Gastonia-Rock Hill	40.8	40.3	40.1	8.98	9.45	9.36	365.57	380.84	375.34
Greensboro-Winston-Salem-High Point	39.7	39.2	39.0	9.20	9.51	9.43	365.24	372.79	367.77
Raleigh-Durham	41.4	42.1	41.2	9.65	10.13	10.15	399.51	426.47	418.18
North Dakota	42.0	39.6	40.7	8.76	8.99	8.77	367.92	356.00	356.94
Fargo-Moorhead	41.2	38.7	41.9	9.10	8.87	8.54	374.92	343.27	357.83
Ohio	42.4	43.2	42.7	12.29	12.89	12.88	521.10	556.85	549.98
Akron	42.4	43.4	42.8	11.74	12.21	12.19	497.78	529.91	521.73
Canton	41.2	42.9	42.3	11.07	11.46	11.54	456.08	491.63	486.14
Cincinnati	43.4	43.4	43.0	12.20	12.17	12.17	508.21	529.48	523.31
Cleveland	42.9	43.1	43.1	11.84	12.31	12.30	507.94	530.56	530.13
Columbus	41.9	42.2	42.1	12.22	12.55	12.61	512.02	529.61	530.88
Dayton-Springfield	42.8	43.1	42.7	12.90	13.69	13.69	552.12	590.04	584.56
Toledo	43.6	44.4	43.7	13.31	13.78	13.67	580.32	610.94	597.38
Youngstown-Warren	43.3	44.7	43.5	14.26	15.26	15.23	617.46	682.12	662.51
Oklahoma	42.2	40.8	41.1	10.44	10.74	10.38	440.57	438.19	426.82
Oklahoma City	42.9	41.4	42.5	11.31	11.81	10.95	485.20	486.93	485.38
Tulsa	42.4	41.9	41.8	10.41	11.41	11.37	441.38	478.08	475.27
Oregon	40.2	40.6	39.8	10.78	11.13	11.20	433.36	451.88	445.78
Eugene-Springfield	40.5	38.1	37.3	10.90	10.92	10.96	441.45	416.05	408.81
Portland	40.4	40.1	40.0	11.00	11.59	11.83	444.40	464.76	465.20
Salem	39.0	36.3	38.1	8.82	9.05	9.38	343.98	346.82	357.38

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Oct. 1989	Sept. 1990	Oct. 1990 ^a	Oct. 1989	Sept. 1990	Oct. 1990 ^a	Oct. 1989	Sept. 1990	Oct. 1990 ^a
Pennsylvania	40.9	41.2	40.8	\$10.74	\$11.14	\$11.13	\$439.27	\$458.97	\$454.10
Allentown-Bethlehem	40.5	40.4	39.8	10.70	11.18	11.17	433.35	451.87	442.33
Altoona	39.5	39.8	39.7	9.49	9.60	9.52	374.86	382.08	377.94
Beaver County	42.8	42.0	41.9	10.74	11.25	11.37	459.87	472.50	476.40
Erie	43.1	44.1	43.8	11.38	11.89	11.93	490.48	524.35	520.15
Harrisburg-Lebanon-Carlisle	41.5	40.9	40.5	10.86	11.26	11.27	450.89	460.53	456.44
Johnstown	38.8	39.2	38.0	8.26	8.52	8.64	318.84	333.98	328.32
Lancaster	40.8	40.4	40.1	10.69	11.14	11.06	434.01	450.06	443.51
Philadelphia PMSA	40.3	40.5	40.5	11.79	12.08	12.06	475.14	489.24	488.43
Pittsburgh	41.8	42.8	41.8	11.00	11.53	11.47	459.80	491.18	479.45
Reading	41.7	41.0	40.9	11.18	11.59	11.51	466.21	475.19	470.76
Scranton-Wilkes-Barre	39.4	39.8	39.9	9.33	9.74	9.74	367.90	385.70	388.63
Sharon	41.9	43.8	42.8	11.90	12.09	12.06	498.81	529.54	516.17
State College	38.4	41.5	40.1	9.48	10.01	10.13	363.26	415.42	406.21
Williamsport	41.7	40.4	37.2	9.56	9.20	9.76	398.85	371.68	363.07
York	42.1	42.0	41.4	10.26	10.77	10.71	431.95	452.34	443.39
Rhode Island	39.4	40.1	39.7	9.17	9.36	9.65	361.30	375.34	383.11
Pawtucket-Woonsocket-Attleboro	39.4	39.0	38.1	8.54	8.87	9.14	336.48	345.93	348.23
Providence	39.4	40.0	39.7	8.70	9.22	9.49	342.78	368.80	376.75
South Carolina	41.2	40.8	40.8	8.59	8.98	8.95	353.91	365.57	383.37
Charleston	40.1	39.9	39.7	9.42	9.49	9.45	377.74	378.85	375.18
Columbia	41.3	42.1	42.0	8.80	9.11	9.06	363.44	383.53	380.52
Greenville-Spartanburg	41.3	41.7	41.8	8.42	8.87	8.86	347.75	369.88	368.58
South Dakota	42.1	42.4	42.0	8.39	8.50	8.56	353.22	360.40	359.52
Sioux Falls	47.3	43.3	45.0	8.41	8.76	8.78	397.79	379.31	395.10
Tennessee	41.0	39.9	39.8	9.30	9.77	9.69	381.30	389.82	385.66
Chattanooga	38.9	41.7	40.9	8.53	8.79	8.81	331.82	366.54	360.33
Johnson City-Kingsport-Bristol	41.7	41.6	40.9	9.43	10.09	9.99	393.23	419.74	408.59
Knoxville	39.2	38.6	36.6	9.51	9.53	9.40	372.79	367.88	362.84
Memphis	41.6	40.9	41.5	9.65	9.97	9.85	401.44	407.77	408.78
Nashville	41.4	42.7	41.5	10.81	11.45	11.21	439.25	488.92	465.22
Texas	41.9	42.3	41.8	10.29	10.58	10.56	431.15	447.53	441.41
Dallas	42.6	42.3	41.9	10.40	10.46	10.61	443.04	442.48	444.56
Ft. Worth-Arlington	41.1	41.3	40.9	11.14	11.43	11.38	457.85	472.06	465.44
Houston	44.2	44.6	44.3	11.66	12.10	12.01	516.26	539.66	532.04
San Antonio	40.3	40.6	40.6	7.53	7.84	7.78	303.46	318.30	315.87
Utah	40.4	40.2	39.8	10.21	10.52	10.50	412.46	422.90	417.90
Salt Lake City-Ogden	40.2	40.2	39.7	9.97	10.50	10.58	400.79	422.10	420.03
Vermont	41.7	40.9	41.4	9.96	10.78	10.63	415.33	440.90	440.08
Burlington	42.5	41.1	40.7	9.91	11.11	11.06	421.18	456.82	450.14
Virginia	41.4	40.8	40.2	9.75	10.18	10.25	403.85	415.34	412.05
Bristol	39.8	40.0	34.9	7.74	8.40	8.59	306.50	338.00	299.79
Charlottesville	43.2	42.0	42.8	8.60	8.90	8.66	371.52	373.80	379.21
Danville	41.2	40.7	40.5	9.21	9.54	9.64	379.45	388.28	390.42
Lynchburg	41.7	42.3	40.3	9.62	10.02	9.82	401.15	423.85	395.75
Northern Virginia	39.7	40.6	40.2	10.84	11.36	11.38	430.35	461.22	457.48
Richmond-Petersburg	42.1	44.8	44.2	12.71	13.62	13.74	535.09	610.18	607.31
Roanoke	40.8	41.5	41.4	11.35	11.71	12.09	463.08	485.97	500.53
Washington	34.7	40.4	40.5	11.70	12.70	12.72	405.99	513.08	515.16
West Virginia	41.3	41.1	40.8	11.20	11.57	11.74	462.56	475.53	476.84
Charleston	44.6	45.3	45.8	13.95	13.56	14.26	622.17	614.27	650.26
Huntington-Ashland	42.6	41.7	41.9	12.92	13.27	14.26	550.39	553.36	597.49
Parkersburg-Marietta	43.1	41.0	41.2	13.02	13.39	13.61	561.16	548.99	560.73
Wheeling	42.3	42.7	43.8	13.08	13.18	13.57	553.28	562.79	591.65

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P	Oct. 1989	Sept. 1990	Oct. 1990 ^P
Wisconsin	41.5	42.6	41.6	\$10.80	\$11.08	\$11.15	\$448.20	\$472.01	\$463.84
Appleton-Oshkosh	43.1	43.9	43.8	11.78	12.17	12.05	507.72	534.26	527.79
Eau Claire	44.1	44.5	43.5	11.21	11.60	11.75	494.36	516.20	511.13
Green Bay	42.7	42.7	42.5	11.39	11.72	11.64	486.35	500.44	494.70
Janesville-Beloit	39.7	36.6	36.8	12.65	12.01	12.28	502.21	439.57	451.90
Kenosha	38.8	42.5	40.5	11.25	12.10	11.68	436.50	514.25	473.04
La Crosse	40.9	41.4	41.7	9.39	9.66	9.95	384.05	399.92	414.92
Madison	41.6	43.1	41.5	9.95	10.25	10.32	413.92	441.76	428.28
Milwaukee	41.6	41.8	41.6	11.63	11.89	11.85	483.81	497.00	492.96
Racine	40.4	39.7	39.8	11.02	11.61	11.68	445.21	460.92	472.82
Sheboygan	44.0	45.6	44.2	10.72	10.86	10.97	471.68	495.22	484.87
Wausau	43.0	44.3	43.4	10.47	11.15	11.14	450.21	493.95	483.48
Wyoming	40.7	40.5	40.7	10.30	10.87	10.19	419.21	440.24	414.73
Puerto Rico	40.1	39.4	39.0	5.84	6.08	6.06	234.18	239.55	236.34
Virgin Islands	38.8	43.4	41.9	11.69	12.08	12.12	451.23	524.27	507.83

¹ Not available.

^P = preliminary.

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

publication. All State and area data have been adjusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1967 *Standard Industrial Classification (SIC) Manual*.

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) ¹			Percent change		
	Oct. 1990 ^r	Nov. 1990 ^r	Dec. 1990 ^p	Dec. 1989 to Dec. 1990 ^p	Oct. 1990 to Nov. 1990 ^r	Nov. 1990 to Dec. 1990 ^p
Total	202,802	203,500	204,522	1.1	0.3	0.5
Private sector	166,116	166,584	167,647	.9	.3	.6
Mining	1,677	1,718	1,740	8.4	2.5	1.3
Construction	9,828	10,109	10,152	-.2	2.9	.4
Manufacturing	40,207	39,623	39,759	-2.7	-1.5	.3
Durable goods	23,642	23,152	23,263	-3.8	-2.1	.5
Nondurable goods	16,565	16,471	16,497	-1.2	-.6	.2
Transportation and public utilities	11,721	11,772	11,886	2.5	.4	1.0
Wholesale trade	12,524	12,532	12,603	.3	.1	.6
Retail trade	29,229	29,463	29,289	-.8	.8	-.6
Finance, insurance, and real estate	12,632	12,651	12,859	2.4	.1	1.6
Services	48,298	48,716	49,359	4.3	.9	1.3
Government	36,686	36,916	36,875	2.4	.6	-.1

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

^p = preliminary.

^r = revised.

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

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

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

(1982=100)

Item	Annual average		Quarterly index										
	1988	1989	1988				1989				1990		
			I	II	III	IV	I	II	III	IV	I	II	III
Business sector													
Output per hour of all persons	113.2	112.6	113.2	112.9	113.6	113.1	113.0	113.0	112.6	111.9	111.7	111.9	112.0
Output	133.0	135.8	131.2	132.6	133.8	134.5	135.6	135.9	136.1	135.5	136.0	136.4	136.4
Hours	117.5	120.5	115.8	117.5	117.8	118.8	120.0	120.2	120.9	121.0	121.7	121.9	121.8
Compensation per hour	128.6	132.9	126.3	127.9	129.7	130.8	131.8	132.7	133.1	133.8	135.3	137.0	138.5
Real compensation per hour	104.9	103.4	104.7	104.9	105.1	104.9	104.3	103.5	103.1	102.6	101.7	102.1	101.7
Unit labor costs	113.7	117.9	111.5	113.3	114.2	115.6	116.7	117.4	118.2	119.5	121.1	122.5	123.7
Unit nonlabor payments	127.9	133.1	125.8	126.4	128.8	130.2	130.9	133.3	133.9	134.5	135.5	137.0	137.8
Implicit price deflator	118.2	122.8	116.2	117.5	118.9	120.3	121.2	122.5	123.3	124.3	125.8	127.2	128.3
Nonfarm business sector													
Output per hour of all persons	112.5	111.7	112.2	112.0	112.8	112.9	112.1	112.0	111.7	111.0	110.7	110.7	110.8
Output	134.0	136.7	131.6	133.4	134.8	136.0	136.4	136.8	137.1	136.3	136.8	137.2	137.2
Hours	119.1	122.3	117.3	119.1	119.5	120.5	121.7	122.2	122.7	122.8	123.7	123.9	123.9
Compensation per hour	127.8	131.9	125.5	127.1	128.8	130.0	131.0	131.6	132.1	132.9	134.2	135.8	137.3
Real compensation per hour	104.3	102.7	104.1	104.3	104.4	104.2	103.7	102.6	102.3	101.9	100.9	101.2	100.8
Unit labor costs	113.7	118.1	111.9	113.5	114.2	115.2	116.9	117.5	118.3	119.7	121.3	122.7	124.0
Unit nonlabor payments	128.8	133.8	126.9	127.2	128.8	132.1	131.0	134.0	134.8	135.4	135.7	137.5	138.3
Implicit price deflator	118.4	123.0	116.6	117.8	118.8	120.5	121.4	122.7	123.5	124.7	125.8	127.3	128.5
Manufacturing													
Output per hour of all persons	127.8	131.1	126.2	127.3	128.8	129.3	130.2	131.4	131.1	131.9	133.5	134.5	136.2
Output	139.9	144.0	136.9	138.9	141.1	142.6	143.7	144.5	144.0	143.5	144.2	145.7	146.9
Hours	109.4	109.8	108.5	109.1	109.5	110.3	110.4	110.0	109.9	108.8	108.0	108.3	107.9
Compensation per hour	122.9	127.7	121.1	122.1	123.6	125.0	126.7	127.1	128.2	128.9	129.7	131.2	132.4
Real compensation per hour	100.2	99.4	100.5	100.2	100.1	100.3	100.2	99.1	99.3	98.9	97.5	97.8	97.2
Unit labor costs	96.1	97.4	96.0	95.9	95.9	96.7	97.3	96.7	97.8	97.8	97.1	97.5	97.2
Durable goods													
Output per hour of all persons	140.2	144.4	138.5	139.7	141.1	141.9	142.6	145.0	144.9	144.9	146.7	149.0	151.7
Output	155.1	159.8	150.8	154.0	156.6	158.9	159.7	160.8	160.2	158.5	159.1	161.9	163.6
Hours	110.6	110.7	108.9	110.2	111.0	112.0	112.0	110.9	110.5	109.3	108.5	108.7	107.9
Compensation per hour	121.4	126.4	120.5	120.5	121.7	123.4	125.3	125.7	127.0	127.6	128.1	129.5	130.9
Real compensation per hour	99.0	96.4	99.9	99.8	98.6	99.0	99.2	98.0	98.4	97.9	96.3	96.5	96.0
Unit labor costs	86.6	87.5	87.0	86.2	86.3	87.0	87.9	86.7	87.6	88.0	87.3	86.9	86.3
Nondurable goods													
Output per hour of all persons	111.1	113.2	109.8	110.6	112.2	112.1	113.1	113.0	112.4	114.4	115.8	115.1	115.6
Output	119.6	122.8	118.3	118.8	120.4	120.9	122.3	122.8	122.5	123.7	124.3	124.2	124.7
Hours	107.7	108.5	107.8	107.5	107.4	107.9	108.1	108.7	109.0	108.1	107.4	107.9	107.9
Compensation per hour	125.0	129.6	122.1	124.6	126.3	127.4	128.5	129.1	130.0	131.1	132.2	134.0	135.1
Real compensation per hour	102.0	100.9	101.3	102.2	102.4	102.2	101.7	100.7	100.6	100.5	99.4	99.9	99.1
Unit labor costs	112.6	114.5	111.2	112.7	112.6	113.7	113.6	114.3	115.6	114.6	114.2	116.4	116.9
Nonfinancial corporations													
Output per all-employee hour	113.5	111.6	113.6	113.6	113.4	113.0	111.9	111.6	111.8	110.5	110.1	110.6	110.3
Output	134.9	136.4	133.2	134.6	135.4	136.3	136.2	136.4	137.1	135.9	136.0	136.9	136.6
Hours	118.8	122.2	117.2	118.5	119.4	120.6	121.7	122.2	122.7	123.0	123.5	123.8	123.9
Compensation per hour	125.2	129.3	122.9	124.4	125.9	126.9	128.3	128.8	129.3	130.0	130.9	133.0	134.4
Real compensation per hour	102.1	100.6	101.9	102.1	102.1	101.7	101.5	100.5	100.2	99.7	98.4	99.1	98.6
Total unit costs	109.0	114.7	107.1	108.2	109.7	110.9	112.7	114.1	115.0	117.0	118.1	119.1	121.0
Unit labor costs	110.3	115.8	108.1	109.6	111.1	112.3	114.6	115.4	115.7	117.6	118.9	120.2	121.8
Unit nonlabor costs	105.5	111.8	104.2	104.6	106.0	107.3	108.0	110.6	113.3	115.2	116.2	116.2	118.7
Unit profits	176.3	157.9	176.6	178.1	171.4	179.1	162.3	162.9	159.3	147.2	147.6	153.9	140.2
Implicit price deflator	113.2	117.4	111.4	112.6	113.5	115.2	115.9	117.1	117.8	118.9	120.0	121.3	122.2

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

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	II 1989	III 1989	IV 1989	I 1990	II 1990	III 1990	II 1989	III 1989	IV 1989	I 1990	II 1990	III 1990
Business sector												
Output per hour of all persons	0.1	-1.6	-2.3	-0.9	0.6	0.4	0.1	-0.9	-1.1	-1.2	-1.0	-0.5
Output .....	.9	.6	-1.6	1.4	1.2	.1	2.5	1.7	.8	.3	.3	.2
Hours .....	.8	2.2	.4	2.3	.5	-4	2.3	2.7	1.9	1.4	1.4	.7
Compensation per hour	2.6	1.1	2.2	4.5	5.4	4.5	3.7	2.6	2.3	2.6	3.3	4.1
Real compensation per hour	-3.2	-1.7	-1.8	-3.3	1.6	-1.8	-1.4	-2.0	-2.2	-2.5	-1.3	-1.3
Unit labor costs	2.5	2.8	4.6	5.4	4.7	4.0	3.6	3.5	3.4	3.8	4.4	4.7
Unit nonlabor payments	7.7	1.8	1.7	3.1	4.5	2.3	5.5	4.0	3.2	3.6	2.8	2.9
Implicit price deflator	4.3	2.5	3.5	4.6	4.6	3.4	4.2	3.7	3.4	3.7	3.8	4.0
Nonfarm business sector												
Output per hour of all persons	-3	-1.0	-2.5	-1.3	.3	.2	.0	-1.0	-1.6	-1.3	-1.1	-9
Output	1.3	.6	-2.1	1.4	1.2	.0	2.6	1.7	.3	.3	.3	.1
Hours	1.6	1.6	.5	2.8	.9	-2	2.6	2.7	1.9	1.6	1.4	1.0
Compensation per hour	1.7	1.6	2.3	3.9	5.0	4.6	3.5	2.6	2.2	2.4	3.2	3.9
Real compensation per hour	-4.1	-1.2	-1.6	-3.8	1.2	-1.8	-1.6	-2.0	-2.2	-2.7	-1.4	-1.5
Unit labor costs	2.0	2.6	5.0	5.3	4.7	4.4	3.6	3.6	3.9	3.7	4.4	4.8
Unit nonlabor payments	9.3	2.6	1.7	1.0	5.2	2.4	5.3	4.7	2.5	3.6	2.6	2.5
Implicit price deflator	4.4	2.6	3.9	3.8	4.8	3.7	4.1	3.9	3.4	3.7	3.8	4.0
Manufacturing												
Output per hour of all persons	3.9	-1.0	2.5	4.9	3.1	5.1	3.2	1.7	2.0	2.5	2.4	3.9
Output	2.4	-1.4	-1.3	1.8	4.3	3.3	4.1	2.1	.7	.4	.8	2.0
Hours	-1.4	-4	-3.7	-2.9	1.2	-1.8	.8	.4	-1.3	-2.1	-1.5	-1.8
Compensation per hour	1.3	3.6	2.4	2.3	4.7	3.8	4.1	3.7	3.1	2.4	3.2	3.3
Real compensation per hour	-4.5	.7	-1.6	-5.4	1.0	-2.4	-1.1	-9	-1.4	-2.7	-1.3	-2.1
Unit labor costs	-2.5	4.6	-1	-2.5	1.6	-1.2	.8	2.0	1.1	-2	.9	-6
Durable goods												
Output per hour of all persons	6.9	-2	.0	4.8	6.6	7.4	3.8	2.8	2.1	2.8	2.7	4.7
Output	2.8	-1.7	-4.1	1.6	7.3	4.2	4.5	2.3	-2	-4	.7	2.2
Hours	-3.8	-1.5	-4.1	-3.1	.7	-3.0	.6	-4	-2.3	-3.1	-2.0	-2.4
Compensation per hour	1.2	4.3	1.8	1.5	4.4	4.3	4.4	4.4	3.4	2.2	3.0	3.0
Real compensation per hour	-4.5	1.4	-2.1	-6.1	.7	-2.0	-8	-3	-1.1	-2.9	-1.6	-2.4
Unit labor costs	-5.3	4.5	1.6	-3.1	-2.0	-2.9	.5	1.6	1.2	-6	.3	-1.6
Nondurable goods												
Output per hour of all persons	-5	-2.1	7.1	5.2	-2.4	1.6	2.2	.2	2.1	2.3	1.9	2.8
Output	1.8	-1.0	3.7	2.3	-6	1.6	3.4	1.6	2.3	1.7	1.1	1.7
Hours	2.3	1.1	-3.2	-2.7	1.8	.0	1.2	1.5	.2	-7	-8	-1.1
Compensation per hour	1.9	2.6	3.4	3.6	5.4	3.3	3.6	2.9	2.9	2.9	3.7	3.9
Real compensation per hour	-3.9	-3	-6	-4.1	1.6	-2.9	-1.5	-1.7	-1.6	-2.2	-9	-1.5
Unit labor costs	2.4	4.8	-3.4	-1.5	8.0	1.6	1.4	2.6	.8	.5	1.9	1.1
Nonfinancial corporations												
Output per all-employee hour	-1.1	.6	-4.6	-1.5	1.9	-1.0	-1.7	-1.4	-2.2	-1.7	-1.0	-1.3
Output .....	.6	2.1	-3.6	.2	2.8	-6	1.4	1.3	-3	-2	.4	-4
Hours	1.7	1.5	1.1	1.8	.9	.2	3.1	2.7	2.0	1.5	1.3	1.0
Compensation per hour	1.8	1.6	1.9	2.8	6.6	4.3	3.5	2.7	2.5	2.0	3.2	3.9
Real compensation per hour	-4.0	-1.2	-2.0	-4.9	2.8	-2.0	-1.6	-1.9	-2.0	-3.0	-1.4	-1.6
Total unit costs	4.7	3.5	6.9	4.1	3.4	6.3	5.4	4.9	5.5	4.8	4.4	5.2
Unit labor costs	2.8	1.0	6.9	4.4	4.6	5.4	5.3	4.1	4.8	3.8	4.2	5.3
Unit nonlabor costs	9.9	10.2	6.9	3.3	.2	8.7	5.7	6.9	7.4	7.6	5.1	4.7
Unit profits	1.5	-8.5	-27.1	1.2	18.2	-31.2	-8.5	-7.0	-17.8	-9.0	-5.5	-12.0
Implicit price deflator	4.4	2.4	3.6	3.9	4.5	2.8	4.0	3.8	3.2	3.6	3.6	3.7

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

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P
Alabama	1,912.6	1,920.6	1,922.1	122.9	141.2	128.7	6.4	7.3	8.7
Birmingham	443.7	446.4	446.8	23.2	26.2	22.9	5.2	5.9	5.1
Huntsville	134.4	134.6	135.4	6.7	6.9	6.3	5.0	5.1	4.6
Mobile	211.0	212.5	213.4	15.7	15.8	14.4	7.4	7.4	6.7
Montgomery	139.6	140.8	141.3	8.1	9.8	8.4	5.8	7.0	6.0
Tuscaloosa	72.3	74.0	74.2	3.1	4.2	3.4	4.3	5.6	4.6
Alaska	251.0	257.8	254.0	15.6	16.6	16.9	6.2	6.4	6.7
Arizona	1,704.4	1,752.4	1,724.7	73.5	81.6	90.4	4.3	4.7	5.2
Phoenix	1,057.6	1,083.7	1,066.6	38.5	41.2	45.3	3.6	3.8	4.2
Tucson	312.4	318.5	311.5	11.2	11.5	12.3	3.6	3.6	3.9
Arkansas	1,133.2	1,132.3	1,145.6	75.1	69.3	75.2	6.6	6.1	6.6
Fayetteville-Springdale	64.2	64.5	65.6	2.2	2.0	2.2	3.4	3.0	3.3
Fort Smith	94.0	92.0	93.7	7.6	7.3	8.4	8.1	7.9	9.0
Little Rock-North Little Rock	270.8	267.8	272.4	15.2	14.3	14.3	5.6	5.3	5.3
Pine Bluff	37.1	36.8	37.1	2.5	3.0	3.2	6.8	8.2	8.6
California ¹	14,701.1	14,659.3	14,663.0	719.0	831.6	951.7	4.9	5.7	6.5
Anaheim-Santa Ana	1,414.4	1,390.3	1,393.9	36.8	50.0	57.1	2.6	3.6	4.1
Bakersfield	232.3	228.2	232.1	24.9	24.0	30.0	10.7	10.5	12.9
Fresno	303.6	316.7	320.2	31.3	31.0	41.2	10.3	9.8	12.9
Los Angeles-Long Beach ¹	4,469.0	4,375.0	4,337.0	230.0	271.0	251.0	5.2	6.2	5.8
Modesto	157.4	163.2	163.3	16.2	16.4	23.1	10.3	10.0	14.1
Oakland	1,120.6	1,130.6	1,136.6	39.4	45.4	52.5	3.5	4.0	4.6
Oxnard-Ventura	366.2	368.6	372.0	18.9	21.5	28.0	5.2	5.8	7.5
Riverside-San Bernardino	1,025.9	1,059.9	1,069.5	52.5	76.3	90.0	5.1	7.2	8.4
Sacramento	728.5	740.1	741.0	30.5	34.4	43.3	4.2	4.6	5.8
San Diego	1,174.9	1,188.9	1,190.3	41.4	55.8	64.8	3.5	4.7	5.4
San Francisco	888.8	879.3	879.9	24.8	28.9	32.3	2.8	3.3	3.7
San Jose	835.4	813.7	815.2	27.9	33.9	39.1	3.3	4.2	4.8
Santa Barbara-Santa Maria-Lompoc	181.6	181.1	180.5	7.2	8.0	10.2	4.0	4.4	5.6
Santa Rosa-Petaluma	205.0	215.3	214.1	7.4	8.8	11.0	3.6	4.1	5.1
Stockton	194.5	196.8	199.2	17.8	18.1	25.9	9.1	9.2	13.0
Vallejo-Fairfield-Napa	194.9	198.7	198.9	8.9	10.8	13.2	4.5	5.5	6.6
Colorado	1,705.0	1,754.1	1,768.1	83.8	72.2	74.2	4.9	4.1	4.2
Boulder-Longmont	137.4	139.1	140.0	4.9	4.1	3.9	3.5	2.9	2.8
Denver	879.5	901.1	910.3	39.3	34.5	35.2	4.5	3.8	3.9
Connecticut	1,739.8	1,781.5	1,778.3	64.7	85.5	84.2	3.7	4.8	4.7
Bridgeport-Milford	226.5	229.4	228.4	10.7	13.4	12.9	4.7	5.8	5.7
Hartford	422.9	435.6	434.1	14.0	18.8	18.4	3.3	4.3	4.2
New Britain	72.8	75.7	75.2	3.2	4.3	4.3	4.4	5.7	5.7
New Haven-Meriden	271.8	278.0	278.4	9.8	13.2	13.0	3.6	4.8	4.7
Stamford	113.0	114.8	114.8	2.6	4.0	3.7	2.5	3.5	3.2
Waterbury	102.0	101.9	101.6	5.0	7.2	7.3	4.9	7.1	7.1
Delaware	364.4	364.7	362.6	10.0	19.5	22.7	2.8	5.4	6.2
Wilmington	316.5	315.7	314.9	9.8	16.2	19.9	3.1	5.1	6.3
District of Columbia	311.5	294.2	293.1	14.7	19.4	20.1	4.7	6.6	6.9
Washington	2,215.4	2,221.0	2,198.1	53.9	77.1	82.8	2.4	3.5	3.8
Florida ¹	6,236.7	6,474.8	6,460.1	347.2	399.3	406.0	5.6	6.2	6.3
Daytona Beach	153.4	158.6	158.1	8.4	9.4	10.4	5.5	5.9	6.6
Fort Lauderdale-Hollywood-Pompano Beach	652.2	876.6	674.4	33.8	39.3	38.5	5.2	5.8	5.7
Fort Myers-Cape Coral	150.1	159.2	160.9	5.8	7.2	7.7	3.9	4.5	4.8
Gainesville	107.3	111.3	109.5	3.2	4.4	3.9	3.0	3.9	3.6
Jacksonville	453.7	470.2	467.7	26.7	25.5	27.8	5.9	5.4	5.9
Lakeland-Winter Haven	178.8	182.8	183.4	14.7	17.5	16.8	8.2	9.6	9.2
Melbourne-Titusville-Palm Bay	189.3	197.0	196.9	9.6	11.4	13.0	5.1	5.8	6.6
Miami-Hialeah	949.6	988.1	975.8	60.6	68.8	66.8	6.4	7.0	6.8
Orlando	609.6	637.2	633.5	29.7	36.0	37.3	4.9	5.6	5.9
Pensacola	147.5	149.7	150.5	9.4	9.3	11.6	6.4	6.2	7.7
Sarasota	123.0	128.2	128.6	4.4	5.3	5.2	3.6	4.1	4.0
Tallahassee	133.8	139.8	139.1	4.8	6.0	6.5	3.6	4.3	4.7
Tampa-St. Petersburg-Clearwater	997.7	1,029.5	1,022.8	48.1	55.4	55.1	4.8	5.4	5.4
West Palm Beach-Boca Raton-Delray Beach	427.8	439.7	441.3	24.6	31.0	29.1	5.8	7.1	6.6

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P
Georgia	3,240.3	3,246.7	3,246.2	178.1	189.7	187.9	5.5	5.8	5.8
Albany	52.8	53.0	53.1	3.6	3.7	3.4	6.9	7.0	6.4
Athens	78.7	78.9	78.8	3.4	3.7	3.8	4.4	4.7	4.8
Atlanta	1,533.6	1,545.5	1,547.4	83.2	83.3	82.8	5.4	5.4	5.3
Augusta	189.9	187.6	187.7	8.4	9.2	9.3	4.4	4.9	4.9
Columbus	98.8	99.3	98.8	5.4	8.0	6.8	5.4	8.1	6.9
Macon-Warner Robins	134.3	133.6	133.3	6.5	7.0	6.4	4.8	5.3	4.8
Savannah	114.0	115.4	114.8	5.3	5.9	5.3	4.6	5.1	4.6
Hawaii	531.0	540.6	546.6	13.8	15.0	14.8	2.6	2.8	2.7
Honolulu	390.7	396.1	400.9	9.5	10.2	10.1	2.4	2.6	2.5
Idaho	490.7	487.5	490.3	21.9	22.7	25.6	4.5	4.7	5.2
Boise City	115.1	111.1	113.1	3.5	3.9	3.6	3.0	3.5	3.2
Illinois ¹	6,068.2	6,044.5	6,056.4	383.8	345.7	359.5	6.3	5.7	5.9
Aurora-Elgin	186.1	187.5	188.6	11.2	10.6	11.1	6.0	5.6	5.9
Bloomington-Normal	76.7	75.0	75.4	3.5	2.4	2.9	4.6	3.2	3.9
Champaign-Urbana-Rantoul	93.0	93.0	92.4	3.7	3.4	3.3	4.0	3.6	3.6
Chicago	3,326.7	3,329.3	3,336.1	197.4	189.0	191.2	5.9	5.7	5.7
Davenport-Rock Island-Moline	186.6	183.6	182.0	12.9	10.5	10.4	6.9	5.7	5.7
Decatur	61.1	60.6	60.9	4.4	4.0	4.2	7.2	6.7	6.9
Joliet	209.4	206.6	205.8	15.4	12.4	12.2	7.4	6.0	5.9
Kankakee	47.2	46.5	46.9	3.7	2.9	3.2	7.9	6.3	6.8
Lake County	306.0	302.3	305.6	14.2	11.0	13.3	4.6	3.6	4.3
Peoria	163.7	162.6	161.9	10.0	8.7	9.2	6.1	5.4	5.7
Rockford	156.9	155.9	156.5	10.4	8.4	9.8	6.6	5.4	6.3
Springfield	115.1	114.2	113.9	5.6	4.6	4.6	4.9	4.0	4.0
Indiana	2,863.5	2,821.5	2,811.9	141.2	143.0	143.3	4.9	5.1	5.1
Anderson	59.4	58.9	59.3	3.4	3.3	4.3	5.7	5.7	7.2
Bloomington	62.8	61.7	61.3	1.9	1.6	1.5	3.0	2.5	2.4
Elkhart-Goshen	97.6	96.8	95.9	5.4	6.8	6.8	5.5	7.1	7.1
Evansville	146.6	144.0	144.9	8.2	7.1	7.5	5.6	4.9	5.1
Fort Wayne	205.4	204.4	204.9	10.3	10.1	10.5	5.0	4.9	5.1
Gary-Hammond	263.3	255.2	254.1	14.7	13.9	12.2	5.6	5.5	4.8
Indianapolis	693.3	679.2	672.3	27.4	31.5	24.9	3.9	4.6	3.7
Kokomo	47.9	47.2	49.6	2.2	2.6	4.6	4.6	5.5	9.2
Lafayette-West Lafayette	71.0	71.1	70.8	2.2	1.5	1.5	3.1	2.2	2.2
Muncie	60.4	60.7	60.7	3.0	2.9	3.0	5.0	4.9	5.0
South Bend-Mishawaka	135.9	134.9	134.3	6.5	6.8	6.3	4.8	5.0	4.7
Terre Haute	61.1	56.9	59.1	2.9	2.6	2.4	4.7	4.3	4.0
Iowa	1,517.8	1,505.9	1,499.2	67.1	62.5	59.3	4.4	4.1	4.0
Cedar Rapids	98.8	98.3	97.6	3.9	5.4	4.6	3.9	5.5	4.7
Des Moines	237.8	234.2	233.4	8.6	7.6	6.7	3.6	3.3	2.9
Dubuque	45.4	44.5	44.4	2.8	1.9	2.2	6.1	4.3	5.0
Iowa City	63.2	63.3	63.6	.9	1.1	.9	1.5	1.7	1.3
Sioux City	60.7	59.5	59.6	2.2	2.1	2.0	3.7	3.5	3.4
Waterloo-Cedar Falls	73.9	74.1	74.3	4.1	3.2	3.3	5.5	4.3	4.5
Kansas	1,287.9	1,305.2	1,313.8	48.4	57.6	56.6	3.8	4.4	4.3
Lawrence	43.9	44.8	44.9	1.2	1.6	1.5	2.8	3.5	3.3
Topeka	92.5	91.4	91.6	3.6	5.1	4.5	3.9	5.5	4.9
Wichita	254.6	256.2	256.0	10.0	11.2	10.3	3.9	4.4	4.0
Kentucky	1,750.3	1,764.2	1,769.4	87.5	82.2	94.7	5.0	4.7	5.4
Lexington-Fayette	202.7	204.6	204.8	6.4	6.3	7.9	3.2	3.1	3.8
Louisville	521.3	517.6	523.0	25.7	19.9	24.2	4.9	3.8	4.6
Owensboro	45.6	45.3	45.5	2.1	1.8	1.9	4.6	4.0	4.2
Louisiana	1,913.9	1,893.7	1,889.0	131.0	114.2	115.8	6.8	6.0	6.1
Alexandria	60.0	57.7	57.4	4.0	3.5	3.6	6.7	6.1	6.2
Baton Rouge	274.8	270.2	270.0	16.3	14.0	14.6	5.9	5.2	5.4
Houma-Thibodaux	70.7	70.6	71.2	4.1	3.6	3.7	5.8	5.1	5.3
Lafayette	100.1	102.8	103.7	5.6	4.7	5.0	5.6	4.8	4.8
Lake Charles	77.2	76.6	76.9	5.6	5.0	5.5	7.2	6.5	7.1
Monroe	68.9	67.7	67.6	4.3	4.0	4.0	6.3	5.9	6.0
New Orleans	599.7	588.0	583.8	37.5	34.2	31.5	6.2	5.8	5.4
Shreveport	159.9	156.5	156.0	12.2	9.9	10.5	7.6	6.3	6.7
Maine	619.9	632.7	627.3	27.4	32.1	41.5	4.4	5.1	6.6
Lewiston-Auburn	43.3	43.2	42.8	2.5	3.3	3.9	5.8	7.7	9.1
Portland	131.9	132.8	131.7	3.4	4.8	5.9	2.6	3.6	4.5

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P
Maryland	2,533.6	2,529.5	2,497.8	81.8	113.9	131.6	3.2	4.5	5.3
Baltimore	1,210.3	1,210.7	1,196.7	43.4	58.9	87.0	3.6	4.9	5.6
Massachusetts ¹	3,140.1	3,116.2	3,107.8	127.1	186.4	204.6	4.0	6.0	6.6
Boston	1,548.6	1,535.8	1,528.8	53.2	79.8	84.4	3.4	5.2	5.5
Brockton	101.1	100.1	100.5	5.0	7.4	8.0	4.9	7.4	7.9
Fall River	78.2	77.4	78.6	4.9	6.8	7.7	6.2	8.8	9.8
Fitchburg-Leominster	47.1	46.1	45.9	2.5	4.1	4.2	5.2	8.9	9.2
Lawrence-Haverhill	187.3	190.7	191.6	11.0	14.5	16.4	5.9	7.8	8.6
Lowell	150.1	147.8	148.1	7.3	10.0	10.5	4.9	6.8	7.1
New Bedford	87.0	85.1	85.2	5.8	7.7	8.5	6.6	9.0	10.0
Pittsfield	40.2	40.3	40.3	1.7	2.6	3.1	4.2	6.5	7.8
Springfield	253.4	251.9	251.9	9.8	14.8	18.3	3.9	5.9	6.5
Worcester	220.6	221.6	221.7	8.9	13.6	15.1	4.0	6.2	6.8
Michigan ¹	4,660.4	4,562.9	4,544.7	321.9	326.8	326.3	6.9	7.2	7.2
Ann Arbor	165.9	164.8	165.2	6.7	7.8	6.3	4.0	4.7	3.8
Battle Creek	68.0	65.3	65.6	5.8	4.4	3.9	8.6	6.7	5.9
Benton Harbor	79.6	78.3	77.4	5.7	5.4	5.0	7.1	6.9	6.4
Detroit	2,209.5	2,147.1	2,132.1	141.9	154.9	150.6	6.4	7.2	7.1
Flint	185.2	181.1	181.8	22.0	18.7	22.3	11.9	10.3	12.3
Grand Rapids	380.7	373.8	373.5	20.7	21.5	21.2	5.4	5.8	5.7
Jackson	66.9	64.9	65.0	4.6	4.9	4.8	6.8	7.6	7.4
Kalamazoo	122.3	119.5	119.2	6.0	6.0	5.1	4.9	5.1	4.3
Lansing-East Lansing	252.1	240.5	240.8	16.7	12.9	11.4	8.8	5.4	4.8
Muskegon	89.0	67.2	67.4	5.8	6.1	8.1	8.4	9.1	9.1
Saginaw-Bay City-Midland	188.6	187.7	188.1	12.1	12.8	13.8	6.4	6.8	7.3
Minnesota	2,387.4	2,461.5	2,445.7	86.3	104.3	91.9	3.6	4.2	3.8
Duluth	111.3	112.4	112.4	5.0	5.4	4.9	4.5	4.8	4.4
Minneapolis-St. Paul	1,427.5	1,480.1	1,452.0	44.6	59.7	47.5	3.1	4.1	3.3
Rochester	64.1	65.0	65.7	1.6	1.8	1.8	2.5	2.7	2.7
St. Cloud	101.8	107.2	106.9	5.1	4.8	4.4	5.0	4.5	4.1
Mississippi	1,173.1	1,167.3	1,174.7	61.5	75.1	86.8	7.0	8.4	7.4
Jackson	205.1	206.3	206.9	9.9	10.3	10.8	4.8	5.0	5.2
Missouri	2,609.9	2,633.1	2,641.3	143.7	156.6	157.6	5.5	5.9	8.0
Kansas City	852.5	859.3	865.0	38.3	42.7	42.4	4.5	5.0	4.9
St. Louis LMA	1,272.9	1,268.0	1,266.8	71.9	78.8	78.7	5.6	6.2	6.2
Springfield	128.2	128.8	128.9	5.5	6.5	6.2	4.3	5.1	4.8
Montana	401.5	392.3	392.9	23.8	23.9	26.5	5.9	8.1	8.7
Nebraska	821.6	835.9	838.3	23.3	16.8	13.4	2.8	2.0	1.6
Lincoln	129.6	128.5	130.4	2.6	2.1	1.3	2.0	1.8	1.0
Omaha	337.1	335.0	336.2	10.4	9.1	7.4	3.1	2.7	2.2
Nevada	813.3	638.1	641.0	28.4	34.1	34.3	4.6	5.4	5.4
Las Vegas	369.7	392.1	394.4	16.8	22.1	21.4	4.5	5.6	5.4
Reno	137.8	138.5	139.7	5.9	6.6	7.2	4.3	4.8	5.1
New Hampshire	621.0	628.1	627.7	24.1	32.4	42.5	3.9	5.2	6.8
Manchester	87.6	87.8	87.9	2.9	5.0	5.8	3.3	5.7	6.6
Nashua	99.7	99.1	99.4	4.5	8.1	7.2	4.6	8.1	7.2
Portsmouth-Dover-Rochester	136.0	133.3	133.3	3.9	5.3	7.4	2.9	4.0	5.6
New Jersey ¹	4,010.5	4,068.0	4,052.3	188.2	220.5	209.1	4.7	5.4	5.2
Atlantic City	174.7	185.1	182.0	12.8	13.9	14.7	7.3	7.5	8.1
Bergen-Passaic	714.1	717.5	715.7	31.6	34.2	31.9	4.4	4.8	4.5
Jersey City	279.1	277.3	277.0	20.1	21.5	19.9	7.2	7.7	7.2
Middlesex-Somerset-Hunterdon	572.8	578.3	576.6	18.7	24.2	22.5	3.3	4.2	3.9
Monmouth-Ocean	483.8	495.8	492.9	20.6	26.7	28.0	4.3	5.4	5.3
Newark	966.3	982.5	978.1	46.0	56.5	51.4	4.8	5.8	5.3
Trenton	171.7	174.3	173.0	5.9	8.0	7.4	3.4	4.6	4.3
Vineland-Milville-Bridgeton	59.3	61.5	61.6	4.7	5.1	5.6	7.9	8.3	9.0
New Mexico	701.4	700.1	699.5	40.4	38.6	42.4	5.8	5.5	6.1
Albuquerque	267.6	263.6	262.4	12.7	12.1	12.6	4.8	4.8	4.8
Las Cruces	60.5	61.3	60.8	3.5	3.4	3.7	5.7	5.8	6.0
Santa Fe	87.7	69.9	69.2	2.3	2.6	2.7	3.4	3.7	3.9

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Nov. 1989	Oct. 1990	Nov. 1990 ^a	Nov. 1989	Oct. 1990	Nov. 1990 ^a	Nov. 1989	Oct. 1990	Nov. 1990 ^a
New York¹	8,749.4	8,623.1	8,568.5	442.4	462.2	451.7	5.1	5.4	5.3
Albany-Schenectady-Troy	433.1	431.3	429.7	15.3	14.0	14.3	3.5	3.3	3.3
Binghamton	125.8	121.1	120.2	5.2	4.4	4.8	4.2	3.6	3.8
Buffalo	462.1	453.5	450.4	23.1	19.7	19.4	5.0	4.3	4.3
Elmira	43.4	42.9	42.5	2.1	1.8	1.7	4.9	4.1	4.0
Glens Falls	53.7	52.6	51.2	3.3	2.7	3.0	6.1	5.2	5.9
Nassau-Suffolk	1,408.0	1,366.9	1,368.4	50.6	55.0	48.2	3.6	4.0	3.5
New York	4,102.7	4,035.0	4,024.1	242.4	280.8	269.4	5.9	7.0	6.7
New York City ¹	3,425.0	3,367.0	3,367.0	222.0	258.0	248.0	6.5	7.7	7.4
Orange County	136.9	132.6	130.1	6.3	6.0	5.9	4.6	4.5	4.5
Poughkeepsie	128.4	125.8	125.2	3.5	3.7	3.7	2.7	3.0	2.9
Rochester	507.7	500.2	496.3	19.5	16.4	16.9	3.8	3.3	3.4
Syracuse	320.7	319.3	317.9	13.1	11.7	13.9	4.1	3.7	4.4
Utica-Rome	136.8	133.7	133.3	6.2	5.7	5.8	4.5	4.3	4.4
North Carolina¹	3,376.7	3,380.1	3,384.1	95.7	148.0	171.9	2.8	4.4	5.1
Asheville	92.6	93.4	94.3	2.1	2.9	3.9	2.3	3.2	4.1
Charlotte-Gastonia-Rock Hill	646.5	649.5	650.0	17.0	25.0	27.8	2.6	3.9	4.3
Greensboro-Winston-Salem-High Point	516.3	504.8	503.8	13.8	20.1	23.1	2.7	4.0	4.6
Raleigh-Durham	423.0	414.0	413.5	7.8	10.9	12.2	1.8	2.6	3.0
North Dakota	324.7	325.9	319.7	13.6	11.3	10.1	4.2	3.5	3.2
Bismarck	47.1	47.3	46.9	2.0	1.6	1.4	4.3	3.5	3.0
Fargo-Moorhead	89.1	89.9	90.1	2.0	1.9	2.0	2.3	2.1	2.2
Grand Forks	37.0	36.5	36.4	1.3	1.1	.9	3.5	2.9	2.6
Ohio¹	5,434.4	5,492.7	5,463.2	321.3	306.0	287.2	5.9	5.6	5.3
Akron	335.9	342.5	341.8	18.8	17.3	16.4	5.5	5.1	4.8
Canton	193.8	194.9	194.1	12.1	11.6	10.3	6.3	6.0	5.3
Cincinnati	788.5	800.8	795.8	36.3	33.7	28.8	4.6	4.2	3.6
Cleveland	956.2	962.8	956.4	50.5	48.5	42.2	5.3	5.0	4.4
Columbus	737.5	748.8	746.6	38.5	33.6	29.3	5.2	4.5	3.9
Dayton-Springfield	480.4	485.8	463.8	27.0	27.4	24.5	5.8	5.6	5.1
Toledo	321.1	321.6	321.7	21.1	21.3	20.8	6.6	6.6	6.5
Youngstown-Warren	224.9	225.3	224.5	15.8	14.6	16.1	7.0	6.5	7.2
Oklahoma	1,527.2	1,548.9	1,533.9	72.5	78.5	87.5	4.7	5.1	5.7
Enid	27.8	27.8	27.7	1.1	1.1	1.2	3.8	3.9	4.3
Lawton	48.6	49.4	48.5	2.0	2.6	2.5	4.1	5.3	5.2
Oklahoma City	503.4	512.3	508.1	20.2	28.2	29.9	4.0	5.5	5.9
Tulsa	341.6	350.8	346.7	17.5	15.5	16.6	5.1	4.4	4.8
Oregon	1,466.5	1,520.9	1,514.5	78.2	81.4	64.4	5.3	5.4	5.6
Eugene-Springfield	148.4	153.2	152.8	8.1	9.1	9.7	5.4	6.0	6.4
Portland	671.8	695.9	695.7	28.1	31.8	28.3	4.2	4.6	4.1
Salem	137.8	141.7	141.9	7.7	6.6	7.9	5.6	4.7	5.6
Pennsylvania¹	5,901.0	5,896.7	5,910.8	301.2	346.2	347.4	5.1	5.9	5.9
Allentown-Bethlehem	331.8	329.8	332.1	17.8	19.9	19.5	5.4	6.0	5.9
Altoona	60.6	60.8	61.5	4.8	4.7	5.0	7.9	7.7	8.2
Beaver County	59.6	58.8	58.8	4.4	4.6	4.7	7.4	7.8	8.0
Erie	134.6	134.7	135.3	8.2	7.5	7.9	6.1	5.6	5.8
Harrisburg-Lebanon-Carlisle	334.4	336.4	338.2	16.9	15.9	16.5	5.1	4.7	4.9
Johnstown	95.9	95.4	96.2	8.1	7.4	8.4	8.4	7.8	8.8
Lancaster	226.2	224.4	225.6	10.1	10.8	11.5	4.5	4.8	5.1
Philadelphia	2,427.2	2,434.6	2,435.7	99.6	129.5	123.3	4.1	5.3	5.1
Pittsburgh	993.7	991.2	995.6	47.9	50.9	51.1	4.8	5.1	5.1
Reading	179.7	180.9	180.2	7.7	9.9	9.5	4.3	5.5	5.3
Scranton-Wilkes-Barre	367.9	368.1	371.2	22.8	26.6	28.6	6.2	7.2	7.7
Sharon	51.6	52.6	52.8	2.8	2.8	2.8	5.4	5.4	5.4
State College	68.3	68.5	68.7	4.0	3.9	4.3	5.9	5.7	6.2
Williamsport	61.3	62.8	61.9	4.1	5.2	4.7	6.7	8.3	7.6
York	224.9	222.4	223.0	10.1	12.1	11.8	4.5	5.5	5.3
Rhode Island	531.9	516.4	512.8	23.5	28.4	32.7	4.4	5.5	6.4
Pawtucket-Woonsocket-Attleboro	167.2	164.1	183.3	8.4	10.8	11.8	5.0	6.6	7.2
Providence	350.0	339.4	337.6	14.6	17.7	20.8	4.2	5.2	6.2
South Carolina	1,713.1	1,729.6	1,722.6	61.0	89.4	95.5	4.7	5.2	5.5
Charleston	229.4	236.7	237.6	8.6	9.5	9.4	3.8	4.0	4.0
Columbia	236.3	242.3	240.7	7.9	9.4	9.7	3.4	3.9	4.0
Greenville-Spartanburg	342.8	347.5	347.1	12.2	15.0	15.9	3.6	4.3	4.6
South Dakota	360.1	361.7	356.9	14.3	12.9	12.2	4.0	3.6	3.4
Rapid City	40.1	39.4	36.7	1.4	1.7	1.2	3.6	4.3	3.2
Sioux Falls	75.7	74.4	74.6	2.6	1.9	1.8	3.4	2.5	2.5

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P	Nov. 1989	Oct. 1990	Nov. 1990 ^P
Tennessee	2,383.5	2,414.4	2,404.9	115.6	124.7	129.8	4.9	5.2	5.4
Chattanooga	210.4	210.6	210.8	10.4	10.1	10.4	4.9	4.8	4.9
Johnson City-Kingsport-Bristol	220.1	223.3	223.2	8.9	9.9	10.2	4.0	4.4	4.6
Knoxville	291.1	286.4	283.5	14.4	12.5	13.6	4.9	4.4	4.8
Memphis	466.6	475.9	475.4	21.0	22.7	23.2	4.5	4.8	4.9
Nashville	529.8	537.0	533.8	19.6	22.6	21.3	3.7	4.2	4.0
Texas¹	8,515.0	8,406.1	8,524.4	588.2	445.0	583.1	6.9	5.3	6.8
Arlene	53.0	51.5	52.2	3.3	2.6	3.4	6.3	5.1	6.4
Amarillo	98.0	95.6	96.3	5.6	4.0	4.8	5.7	4.2	5.0
Austin	437.8	431.5	434.8	22.7	17.3	20.9	5.2	4.0	4.8
Beaumont-Port Arthur	165.5	163.7	167.0	14.6	9.9	12.9	8.8	6.1	7.7
Brazoria	86.3	86.7	87.4	6.2	4.2	5.2	7.2	4.8	5.9
Brownsville-Harlingen	107.1	104.6	109.2	13.3	9.6	14.1	12.4	9.2	12.9
Bryan-College Station	63.0	62.7	63.1	2.7	1.9	2.1	4.2	3.0	3.3
Corpus Christi	159.6	158.5	162.0	13.4	10.6	14.0	8.4	6.7	8.6
Dallas	1,462.7	1,444.0	1,457.4	81.4	67.0	84.0	5.6	4.6	5.8
El Paso	256.9	253.0	259.2	28.5	24.2	31.3	11.1	9.6	12.1
Fort Worth-Arlington	731.2	728.4	738.2	41.2	32.4	44.8	5.6	4.4	6.1
Galveston-Texas City	109.3	108.8	110.8	8.7	6.7	9.0	7.9	6.2	8.1
Houston	1,699.2	1,698.7	1,715.8	100.7	79.4	98.2	5.9	4.7	5.7
Killeen-Temple	98.5	97.9	98.6	7.7	6.1	7.9	7.9	6.2	8.0
Laredo	54.7	52.6	54.3	6.8	4.4	8.2	12.5	8.3	11.4
Longview-Marshall	81.0	79.6	80.6	6.7	4.7	6.2	8.2	5.9	7.7
Lubbock	116.0	115.2	116.8	5.4	4.9	6.2	4.7	4.3	5.3
McAllen-Edinburg-Mission	168.1	157.3	170.5	33.3	22.8	34.9	19.8	14.5	20.5
Midland	49.8	48.3	48.9	3.1	2.2	2.6	6.1	4.5	5.3
Odessa	52.2	51.2	51.6	4.0	2.3	2.8	7.6	4.4	5.4
San Angelo	45.5	43.3	43.8	2.9	2.0	2.5	6.3	4.5	5.8
San Antonio	618.7	606.4	617.1	46.6	36.5	48.0	7.5	6.0	7.8
Sherman-Denison	47.8	46.6	47.4	2.9	2.2	3.0	6.1	4.6	6.4
Texarkana	59.0	58.2	58.3	4.0	4.2	4.0	6.7	7.2	6.9
Tyler	75.9	74.1	75.3	5.1	4.1	5.4	6.7	5.6	7.2
Victoria	36.8	35.5	35.6	2.2	1.5	1.7	6.0	4.3	4.8
Waco	94.6	94.1	95.4	5.8	4.7	6.2	6.2	5.0	6.5
Wichita Falls	57.1	55.5	56.4	3.6	2.8	3.8	6.3	5.1	6.7
Utah	804.2	813.1	808.4	31.1	31.8	30.7	3.9	3.9	3.8
Provo-Orem	116.3	122.4	123.2	4.0	4.2	4.9	3.5	3.4	4.0
Salt Lake City-Ogden	522.9	522.8	519.8	19.0	20.1	18.7	3.6	3.9	3.6
Vermont	303.1	307.5	305.8	10.8	13.4	18.2	3.6	4.4	6.0
Burlington	76.9	80.3	78.8	1.9	2.4	3.1	2.5	3.0	3.9
Virginia	3,138.9	3,239.6	3,228.9	132.5	135.4	144.9	4.2	4.2	4.5
Charlottesville	73.7	76.5	77.4	1.5	2.3	2.8	2.1	3.0	3.4
Danville	52.6	53.9	53.7	3.5	4.6	4.3	6.7	8.5	8.1
Lynchburg	75.8	75.9	75.2	5.9	3.5	4.1	7.8	4.7	5.4
Norfolk-Virginia Beach-Newport News	618.5	632.5	629.1	30.7	26.7	26.7	5.0	4.2	4.2
Richmond-Petersburg	452.3	467.1	467.2	16.0	17.0	18.6	3.5	3.6	4.0
Roanoke	120.2	127.0	125.6	4.2	5.2	4.5	3.5	4.1	3.6
Washington	2,473.0	2,465.5	2,461.7	147.6	114.8	128.8	6.0	4.7	5.2
Seattle	1,120.9	1,106.6	1,119.7	46.3	39.2	40.4	4.1	3.5	3.6
West Virginia	773.4	769.9	770.7	66.8	62.8	87.3	8.6	8.2	8.7
Charleston	117.6	119.1	119.0	7.5	7.6	7.9	6.4	6.4	6.7
Huntington-Ashland	131.1	130.9	129.8	7.5	8.9	7.7	5.7	6.8	6.0
Parkersburg-Marietta	73.3	72.8	72.2	4.6	4.7	4.7	6.3	6.5	6.5
Wheeling	72.6	72.2	72.8	4.5	3.5	4.0	6.3	4.8	5.5
Wisconsin	2,604.2	2,615.1	2,613.7	104.3	97.8	105.2	4.0	3.7	4.0
Appleton-Oshkosh-Neenah	174.3	175.8	175.8	7.1	6.7	7.3	4.1	3.8	4.2
Eau Claire	76.4	75.8	77.0	3.4	2.9	3.8	4.5	3.8	4.9
Green Bay	110.9	111.4	112.7	4.0	3.8	4.6	3.6	3.4	4.0
Janesville-Beloit	74.3	71.7	72.1	3.4	2.8	2.5	4.6	3.9	3.5
Kenosha	53.1	53.7	52.3	3.6	3.3	2.3	6.7	6.2	4.4
La Crosse	55.5	54.6	54.3	2.0	2.1	1.9	3.6	3.8	3.5
Madison	227.5	228.5	231.0	6.6	4.7	5.8	2.9	2.1	2.5
Milwaukee	774.2	772.8	771.6	26.1	26.7	22.9	3.4	3.5	3.0
Racine	92.2	91.8	91.5	4.2	4.1	3.3	4.5	4.5	3.6
Sheboygan	58.6	59.8	59.6	2.2	2.8	2.7	3.7	4.7	4.6
Wausau	65.9	66.4	68.4	2.5	2.3	4.1	3.8	3.5	6.1
Wyoming	238.6	242.8	242.5	13.6	10.7	13.4	5.7	4.4	5.5
Casper	31.5	31.3	31.7	2.0	1.5	1.9	6.4	4.8	6.1

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

^P = preliminary.

NOTE: Data refer to place of residence. Estimates for 1989 have been benchmarked to 1989 Current Population Survey annual averages. Except in the

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

Annual Averages

**HOUSEHOLD DATA
ANNUAL AVERAGES**

1. Employment status of the civilian noninstitutional population, 1929 to date

(Numbers in thousands)

Year	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Persons 14 years of age and over									
1929	(¹)	49,180	(¹)	47,630	10,450	37,180	1,550	3.2	(¹)
1930	(¹)	49,820	(¹)	45,480	10,340	35,140	4,340	8.7	(¹)
1931	(¹)	50,420	(¹)	42,400	10,290	32,110	8,020	15.9	(¹)
1932	(¹)	51,000	(¹)	38,940	10,170	28,770	12,060	23.6	(¹)
1933	(¹)	51,590	(¹)	38,760	10,090	28,670	12,830	24.9	(¹)
1934	(¹)	52,230	(¹)	40,890	9,900	30,990	11,340	21.7	(¹)
1935	(¹)	52,870	(¹)	42,260	10,110	32,150	10,610	20.1	(¹)
1936	(¹)	53,440	(¹)	44,410	10,000	34,410	9,030	16.9	(¹)
1937	(¹)	54,000	(¹)	46,300	9,820	36,480	7,700	14.3	(¹)
1938	(¹)	54,610	(¹)	44,220	9,690	34,530	10,390	19.0	(¹)
1939	(¹)	55,230	(¹)	45,750	9,610	36,140	9,480	17.2	(¹)
1940	99,840	55,840	55.7	47,520	9,540	37,980	8,120	14.6	44,200
1941	99,900	55,910	56.0	50,350	9,100	41,250	5,560	9.9	43,990
1942	98,640	56,410	57.2	53,750	9,250	44,500	2,660	4.7	42,230
1943	94,640	55,540	58.7	54,470	9,080	45,390	1,070	1.9	39,100
1944	93,220	54,630	58.6	53,960	8,950	45,010	670	1.2	38,590
1945	94,090	53,660	57.2	52,620	8,580	44,240	1,040	1.9	40,230
1946	103,070	57,520	55.8	55,250	8,320	46,930	2,270	3.9	45,550
1947	106,018	60,168	56.8	57,812	8,256	49,557	2,356	3.9	45,850
Persons 16 years of age and over									
1947	101,827	59,350	58.3	57,038	7,890	49,148	2,311	3.9	42,477
1948	103,068	60,621	58.8	58,343	7,629	50,714	2,276	3.8	42,447
1949	103,994	61,286	58.9	57,651	7,658	49,993	3,637	5.9	42,708
1950	104,995	62,208	59.2	58,918	7,160	51,758	3,288	5.3	42,787
1951	104,621	62,017	59.2	59,061	6,726	53,235	2,055	3.3	42,604
1952	105,231	62,138	59.0	60,250	6,500	53,749	1,883	3.0	43,093
1953 ²	107,056	63,015	58.9	61,179	6,260	54,919	1,834	2.9	44,041
1954	108,321	63,643	58.8	60,109	6,205	53,904	3,532	5.5	44,678
1955	109,683	65,023	59.3	62,170	6,450	55,722	2,852	4.4	44,660
1956	110,854	66,552	60.0	63,799	6,283	57,514	2,750	4.1	44,402
1957	112,265	66,929	59.6	64,071	5,947	58,123	2,859	4.3	45,336
1958	113,727	67,639	59.5	63,036	5,586	57,450	4,602	6.8	46,088
1959	115,329	68,369	59.3	64,630	5,565	59,065	3,740	5.5	46,960
1960 ²	117,245	69,628	59.4	65,778	5,458	60,316	3,852	5.5	47,617
1961	118,771	70,459	59.3	65,746	5,200	60,546	4,714	6.7	48,312
1962 ²	120,153	70,614	58.8	66,702	4,944	61,759	3,911	5.5	49,539
1963	122,416	71,833	58.7	67,762	4,667	63,076	4,070	5.7	50,583
1964	124,485	73,091	58.7	69,305	4,523	64,782	3,796	5.2	51,394
1965	126,513	74,455	58.9	71,088	4,361	66,726	3,366	4.5	52,058
1966	128,058	75,770	59.2	72,895	3,979	68,915	2,875	3.8	52,288
1967	129,874	77,347	59.6	74,372	3,844	70,527	2,975	3.8	52,527
1968	132,028	78,737	59.6	75,920	3,617	72,103	2,817	3.6	53,291
1969	134,335	80,734	60.1	77,902	3,606	74,296	2,832	3.5	53,602
1970	137,085	82,771	60.4	78,678	3,483	75,215	4,093	4.9	54,315
1971	140,216	84,382	60.2	79,367	3,394	75,972	5,016	5.9	55,834
1972 ²	144,128	87,034	60.4	82,153	3,484	78,669	4,882	5.6	57,091
1973 ²	147,096	89,429	60.8	85,064	3,470	81,594	4,365	4.9	57,667
1974	150,120	91,949	61.3	86,794	3,515	83,279	5,156	5.6	58,171
1975	153,153	93,775	61.2	85,846	3,408	82,438	7,929	8.5	59,377
1976	156,150	96,158	61.6	88,752	3,331	85,421	7,406	7.7	59,991
1977	159,033	99,009	62.3	92,017	3,283	88,734	6,991	7.1	60,025
1978 ²	161,910	102,251	63.2	96,048	3,387	92,661	6,202	6.1	59,659
1979	164,863	104,962	63.7	98,824	3,347	95,477	6,137	5.8	59,900
1980	167,745	106,940	63.8	99,303	3,364	95,938	7,637	7.1	60,806
1981	170,130	108,670	63.9	100,397	3,368	97,030	8,273	7.6	61,460
1982	172,271	110,204	64.0	99,526	3,401	96,125	10,678	9.7	62,067
1983	174,215	111,550	64.0	100,834	3,383	97,450	10,717	9.6	62,665
1984	176,383	113,544	64.4	105,005	3,321	101,685	8,539	7.5	62,839
1985	178,206	115,461	64.8	107,150	3,179	103,971	8,312	7.2	62,744
1986 ²	180,587	117,834	65.3	109,597	3,163	106,434	8,237	7.0	62,752
1987	182,753	119,865	65.6	112,440	3,208	109,232	7,425	6.2	62,888
1988	184,613	121,669	65.9	114,966	3,169	111,800	6,701	5.5	62,944
1989	186,393	123,869	66.5	117,342	3,199	114,142	6,528	5.3	62,523
1990	188,049	124,787	66.4	117,914	3,186	114,728	6,874	5.5	63,262

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.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1958 to date

(Numbers in thousands)

Year	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Men									
1958	54,033	45,521	84.2	42,423	4,596	37,827	3,098	6.8	8,514
1959	54,793	45,886	83.7	43,466	4,532	38,934	2,420	5.2	8,907
1960 ¹	55,662	46,388	83.3	43,904	4,472	39,431	2,486	5.4	9,274
1961	56,286	46,653	82.9	43,656	4,298	39,359	2,997	6.4	9,633
1962 ¹	56,831	46,600	82.0	44,177	4,069	40,108	2,423	5.2	10,231
1963	57,921	47,129	81.4	44,657	3,809	40,849	2,472	5.2	10,792
1964	58,847	47,679	81.0	45,474	3,691	41,782	2,205	4.6	11,169
1965	58,782	48,255	80.7	46,340	3,547	42,792	1,914	4.0	11,527
1966	60,262	48,471	80.4	46,919	3,243	43,675	1,551	3.2	11,792
1967	60,905	48,987	80.4	47,479	3,164	44,315	1,508	3.1	11,919
1968	61,847	49,533	80.1	48,114	3,157	44,957	1,419	2.9	12,315
1969	62,898	50,221	79.8	48,818	2,963	45,855	1,403	2.8	12,677
1970	64,304	51,228	79.7	48,990	2,862	46,128	2,238	4.4	13,076
1971	65,942	52,180	79.1	49,390	2,795	46,595	2,789	5.3	13,762
1972 ¹	67,835	53,555	78.9	50,896	2,849	48,047	2,659	5.0	14,280
1973 ¹	69,292	54,624	78.8	52,349	2,847	49,502	2,275	4.2	14,667
1974	70,808	55,739	78.7	53,024	2,919	50,105	2,714	4.9	15,069
1975	72,291	56,299	77.9	51,857	2,824	49,032	4,442	7.9	15,993
1976	73,759	57,174	77.5	53,138	2,744	50,394	4,036	7.1	16,585
1977	75,193	58,396	77.7	54,728	2,671	52,057	3,667	6.3	16,797
1978 ¹	76,576	59,620	77.9	56,479	2,718	53,761	3,142	5.3	16,956
1979	78,020	60,726	77.8	57,607	2,686	54,921	3,120	5.1	17,293
1980	79,398	61,453	77.4	57,186	2,709	54,477	4,267	6.9	17,945
1981	80,511	61,974	77.0	57,397	2,700	54,697	4,577	7.4	18,537
1982	81,523	62,450	76.6	56,271	2,736	53,534	6,179	9.9	19,073
1983	82,531	63,047	76.4	56,787	2,704	54,083	6,260	9.9	19,484
1984	83,605	63,835	76.4	59,091	2,668	56,423	4,744	7.4	19,771
1985	84,469	64,411	76.3	59,891	2,535	57,356	4,521	7.0	20,058
1986 ¹	85,798	65,422	76.3	60,892	2,511	58,381	4,530	6.9	20,376
1987	86,899	66,207	76.2	62,107	2,543	59,564	4,101	6.2	20,692
1988	87,857	66,927	76.2	63,273	2,493	60,780	3,655	5.5	20,930
1989	88,762	67,840	76.4	64,315	2,513	61,802	3,525	5.2	20,923
1990	89,650	68,234	76.1	64,435	2,507	61,928	3,799	5.6	21,417
Women									
1958	59,690	22,118	37.1	20,613	990	19,623	1,504	6.8	37,574
1959	60,534	22,483	37.1	21,164	1,033	20,131	1,320	5.9	38,053
1960 ¹	61,582	23,240	37.7	21,674	986	20,688	1,366	5.9	38,343
1961	62,484	23,806	38.1	22,090	902	21,187	1,717	7.2	38,679
1962 ¹	63,321	24,014	37.9	22,525	875	21,651	1,488	6.2	39,308
1963	64,494	24,704	38.3	23,105	878	22,227	1,598	6.5	39,791
1964	65,637	25,412	38.7	23,831	832	23,000	1,581	6.2	40,225
1965	66,731	26,200	39.3	24,748	814	23,934	1,452	5.5	40,531
1966	67,795	27,299	40.3	25,976	736	25,240	1,324	4.8	40,496
1967	68,968	28,360	41.1	26,893	680	26,212	1,468	5.2	40,608
1968	70,179	29,204	41.6	27,807	660	27,147	1,397	4.8	40,976
1969	71,436	30,513	42.7	29,084	643	28,441	1,429	4.7	40,924
1970	72,782	31,543	43.3	29,688	601	29,087	1,855	5.9	41,239
1971	74,274	32,202	43.4	29,976	599	29,377	2,227	6.9	42,072
1972 ¹	76,290	33,479	43.9	31,257	635	30,622	2,222	6.6	42,811
1973 ¹	77,604	34,804	44.7	32,715	622	32,093	2,089	6.0	43,000
1974	79,312	36,211	45.7	33,769	596	33,173	2,441	6.7	43,101
1975	80,860	37,475	46.3	33,989	584	33,404	3,486	9.3	43,386
1976	82,390	38,983	47.3	35,615	588	35,027	3,389	8.6	43,406
1977	83,840	40,613	48.4	37,289	612	36,677	3,324	8.2	43,227
1978 ¹	85,334	42,631	50.0	39,589	669	38,900	3,061	7.2	42,703
1979	86,843	44,235	50.9	41,217	661	40,556	3,016	6.8	42,608
1980	88,348	45,487	51.5	42,117	656	41,461	3,370	7.4	42,861
1981	89,618	46,696	52.1	43,000	667	42,333	3,696	7.9	42,922
1982	90,748	47,755	52.6	43,256	665	42,591	4,499	9.4	42,993
1983	91,684	48,503	52.9	44,047	680	43,367	4,457	9.2	43,181
1984	92,778	49,709	53.6	45,915	653	45,262	3,794	7.6	43,068
1985	93,736	51,050	54.5	47,259	844	46,615	3,791	7.4	42,886
1986 ¹	94,789	52,413	55.3	48,706	652	48,054	3,707	7.1	42,376
1987	95,853	53,658	56.0	50,334	666	49,668	3,324	6.2	42,195
1988	96,756	54,742	56.6	51,696	676	51,020	3,046	5.6	42,014
1989	97,630	56,030	57.4	53,027	687	52,341	3,003	5.4	41,601
1990	98,399	56,554	57.5	53,479	679	52,800	3,075	5.4	41,845

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

**HOUSEHOLD DATA
ANNUAL AVERAGES**

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

(Numbers in thousands)

Age, sex, and race	1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
TOTAL											
16 years and over	188,049	124,787	66.4	117,914	6,874	5.5	63,262	26,649	7,534	3,734	25,346
16 to 19 years	13,794	7,410	53.7	6,261	1,149	15.5	6,385	500	4,736	39	1,110
16 to 17 years	6,614	2,834	42.8	2,328	505	17.8	3,780	153	2,992	11	624
18 to 19 years	7,181	4,576	63.7	3,933	643	14.1	2,604	347	1,744	27	486
20 to 24 years	17,799	13,643	77.8	12,622	1,221	8.8	3,956	1,464	1,702	98	692
25 to 54 years	105,498	88,140	83.5	84,139	4,001	4.5	17,358	11,603	1,059	1,520	3,176
25 to 34 years	42,752	35,803	83.7	33,831	1,972	5.5	6,949	4,765	709	362	1,113
25 to 29 years	20,835	17,421	83.6	16,387	1,033	5.9	3,415	2,255	460	149	551
30 to 34 years	21,917	18,382	83.9	17,444	938	5.1	3,535	2,510	249	214	562
35 to 44 years	37,342	31,844	85.3	30,543	1,301	4.1	5,498	3,736	266	531	965
35 to 39 years	19,876	16,902	85.0	16,171	731	4.3	2,974	2,088	164	235	487
40 to 44 years	17,466	14,942	85.5	14,372	571	3.8	2,524	1,649	102	296	477
45 to 54 years	25,403	20,493	80.7	19,765	728	3.6	4,910	3,101	84	627	1,098
45 to 49 years	13,899	11,576	83.3	11,136	441	3.8	2,323	1,495	61	289	478
50 to 54 years	11,504	8,916	77.5	8,629	287	3.2	2,587	1,606	23	338	620
55 to 64 years	21,229	11,860	55.9	11,464	396	3.3	9,369	4,339	21	846	4,163
55 to 59 years	10,561	7,073	67.0	6,825	247	3.5	3,488	1,888	13	420	1,186
60 to 64 years	10,668	4,788	44.9	4,639	149	3.1	5,860	2,451	7	425	2,997
65 years and over	29,730	3,535	11.9	3,428	107	3.0	26,195	8,743	15	1,231	16,205
65 to 69 years	10,131	2,133	21.1	2,064	69	3.2	7,998	2,758	5	304	4,931
70 to 74 years	7,934	900	11.3	873	26	2.9	7,035	2,360	3	239	4,433
75 years and over	11,664	502	4.3	491	11	2.3	11,182	3,625	7	688	6,842
Men											
16 years and over	89,650	66,234	76.1	64,435	3,799	5.6	21,417	612	3,722	2,079	15,003
16 to 19 years	6,947	3,866	55.7	3,237	629	16.3	3,081	38	2,422	23	599
16 to 17 years	3,380	1,477	43.7	1,207	271	18.3	1,903	20	1,540	8	335
18 to 19 years	3,566	2,389	67.0	2,030	358	15.0	1,178	16	883	15	264
20 to 24 years	8,647	7,291	84.3	6,625	666	9.1	1,356	45	878	62	373
25 to 54 years	51,641	48,259	93.4	46,071	2,188	4.5	3,383	257	415	1,000	1,711
25 to 34 years	21,037	19,813	94.2	18,732	1,081	5.5	1,224	96	316	249	562
25 to 29 years	10,221	9,583	93.8	9,018	565	5.9	638	46	218	98	276
30 to 34 years	10,817	10,230	94.8	9,714	516	5.0	586	51	98	151	288
35 to 44 years	18,285	17,268	94.4	16,575	693	4.0	1,017	90	75	343	508
35 to 39 years	9,762	9,262	94.9	8,873	388	4.2	500	47	49	153	251
40 to 44 years	8,523	8,007	93.9	7,702	305	3.8	516	43	26	190	257
45 to 54 years	12,319	11,177	90.7	10,784	413	3.7	1,142	70	23	407	641
45 to 49 years	6,757	6,237	92.3	5,985	253	4.0	520	31	18	191	280
50 to 54 years	5,561	4,940	88.8	4,779	161	3.3	622	39	5	216	362
55 to 64 years	10,023	6,785	67.7	6,530	255	3.8	3,238	85	5	500	2,648
55 to 59 years	5,030	4,014	79.6	3,656	158	3.9	1,016	35	2	255	724
60 to 64 years	4,983	2,771	55.5	2,674	98	3.5	2,222	50	2	246	1,924
65 years and over	12,392	2,033	16.4	1,972	61	3.0	10,359	190	4	493	9,672
65 to 69 years	4,592	1,192	26.0	1,154	38	3.2	3,400	51	2	163	3,185
70 to 74 years	3,476	534	15.4	517	17	3.3	2,942	50	1	110	2,781
75 years and over	4,324	307	7.1	301	5	1.8	4,017	89	2	220	3,706
Women											
16 years and over	98,399	56,554	57.5	53,479	3,075	5.4	41,645	26,036	3,812	1,655	10,343
16 to 19 years	6,847	3,544	51.8	3,024	519	14.7	3,304	464	2,314	15	510
16 to 17 years	3,233	1,356	41.9	1,122	234	17.3	1,877	133	1,453	3	288
18 to 19 years	3,614	2,188	60.5	1,903	285	13.0	1,427	331	861	12	222
20 to 24 years	9,152	8,552	71.6	5,997	555	8.5	2,600	1,419	828	36	319
25 to 54 years	53,856	39,881	74.1	38,088	1,813	4.5	13,975	11,346	644	520	1,465
25 to 34 years	21,715	15,990	73.6	15,099	890	5.8	5,725	4,669	393	113	551
25 to 29 years	10,615	7,638	73.8	7,370	468	6.0	2,777	2,209	242	51	275
30 to 34 years	11,101	8,152	73.4	7,730	422	5.2	2,949	2,460	151	62	276
35 to 44 years	19,057	14,576	78.5	13,967	608	4.2	4,482	3,646	191	187	457
35 to 39 years	10,114	7,840	75.5	7,298	342	4.5	2,474	2,041	115	82	236
40 to 44 years	8,943	6,936	77.6	6,669	266	3.8	2,008	1,606	76	106	221
45 to 54 years	13,064	9,316	71.2	9,001	315	3.4	3,788	3,031	60	220	457
45 to 49 years	7,142	5,339	74.8	5,151	188	3.5	1,803	1,464	42	98	198
50 to 54 years	5,942	3,977	66.9	3,851	126	3.2	1,965	1,567	18	122	259
55 to 64 years	11,206	5,075	45.3	4,935	141	2.8	6,131	4,254	16	346	1,515
55 to 59 years	5,531	3,059	55.3	2,970	89	2.9	2,472	1,853	11	166	442
60 to 64 years	5,675	2,016	35.5	1,965	51	2.5	3,658	2,401	5	180	1,073
65 years and over	17,337	1,502	8.7	1,455	46	3.1	15,836	8,553	11	738	6,533
65 to 69 years	5,539	941	17.0	909	32	3.4	4,598	2,707	4	141	1,746
70 to 74 years	4,458	365	8.2	356	9	2.4	4,093	2,310	2	129	1,652
75 years and over	7,341	198	2.7	190	6	3.0	7,145	3,536	5	469	3,135

**HOUSEHOLD DATA
ANNUAL AVERAGES**

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

(Numbers in thousands)

Age, sex, and race	1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
WHITE											
16 years and over	160,415	107,177	66.8	102,087	5,091	4.7	53,237	22,887	5,602	2,802	21,948
16 to 19 years	11,095	6,374	57.5	5,518	856	13.4	4,720	369	3,491	30	830
16 to 17 years	5,274	2,464	48.7	2,078	386	15.7	2,810	117	2,208	10	476
18 to 19 years	5,821	3,910	87.2	3,440	470	12.0	1,911	253	1,283	20	355
20 to 24 years	14,683	11,709	79.7	10,865	844	7.2	2,974	1,102	1,311	67	493
25 to 54 years	89,454	75,418	84.3	72,453	2,965	3.9	14,035	9,686	771	1,116	2,462
25 to 34 years	35,795	30,318	84.7	28,922	1,397	4.6	5,476	3,896	510	263	808
25 to 29 years	17,366	14,718	84.8	13,984	735	5.0	2,848	1,822	328	110	388
30 to 34 years	18,428	15,600	84.7	14,938	662	4.2	2,828	2,074	182	153	420
35 to 44 years	31,856	27,371	85.9	28,389	983	3.6	4,485	3,148	200	388	748
35 to 39 years	16,828	14,426	85.7	13,885	541	3.8	2,402	1,747	120	168	368
40 to 44 years	15,028	12,946	86.1	12,504	441	3.4	2,063	1,401	81	220	381
45 to 54 years	21,803	17,729	81.3	17,143	586	3.3	4,074	2,642	61	465	906
45 to 49 years	11,939	10,016	83.9	9,661	356	3.6	1,922	1,270	44	216	392
50 to 54 years	9,864	7,712	78.2	7,482	230	3.0	2,152	1,371	17	249	514
55 to 64 years	18,540	10,486	56.6	10,151	335	3.2	8,054	3,790	16	633	3,616
55 to 59 years	9,157	6,224	68.0	6,017	207	3.3	2,934	1,626	10	314	983
60 to 64 years	9,383	4,262	45.4	4,134	128	3.0	5,121	2,163	5	319	2,632
65 years and over	26,643	3,189	12.0	3,100	90	2.8	23,454	7,939	13	955	14,546
65 to 69 years	8,963	1,922	21.4	1,866	56	2.9	7,061	2,469	5	225	4,362
70 to 74 years	7,134	809	11.3	786	24	2.9	6,325	2,156	2	186	3,981
75 years and over	10,527	458	4.4	448	10	2.2	10,068	3,315	6	544	6,204
Men											
16 years and over	77,082	59,298	76.9	56,432	2,866	4.8	17,785	442	2,760	1,581	13,002
16 to 19 years	5,600	3,329	59.4	2,856	473	14.2	2,271	22	1,786	19	444
16 to 17 years	2,700	1,285	47.6	1,081	205	15.9	1,414	14	1,139	7	254
18 to 19 years	2,900	2,043	70.5	1,775	268	13.1	857	8	647	12	190
20 to 24 years	7,202	6,197	86.1	5,726	471	7.6	1,005	24	681	42	257
25 to 54 years	44,326	41,848	94.4	40,197	1,652	3.9	2,478	169	286	744	1,278
25 to 34 years	17,837	18,991	95.3	16,199	792	4.7	845	57	222	180	387
25 to 29 years	8,621	8,179	94.9	7,760	419	5.1	443	28	157	71	187
30 to 34 years	9,215	8,812	95.6	8,440	373	4.2	403	29	65	108	200
35 to 44 years	15,600	15,059	95.3	14,531	529	3.5	741	61	49	253	378
35 to 39 years	8,377	8,030	95.9	7,737	293	3.6	346	31	30	107	178
40 to 44 years	7,423	7,029	94.7	6,793	236	3.4	395	30	19	146	199
45 to 54 years	10,690	9,798	91.7	9,467	331	3.4	891	52	15	311	514
45 to 49 years	5,870	5,464	93.1	5,282	202	3.7	406	23	12	147	225
50 to 54 years	4,819	4,334	89.9	4,205	129	3.0	485	29	3	164	289
55 to 64 years	8,828	6,059	68.7	5,842	217	3.6	2,787	64	4	385	2,314
55 to 59 years	4,402	3,574	81.2	3,442	132	3.7	828	24	2	193	609
60 to 64 years	4,424	2,485	56.2	2,400	84	3.4	1,939	40	2	192	1,705
65 years and over	11,129	1,865	18.8	1,812	53	2.8	9,264	162	3	391	8,708
65 to 69 years	4,106	1,094	26.6	1,062	32	2.9	3,012	43	1	129	2,840
70 to 74 years	3,117	486	15.6	470	16	3.2	2,632	43	-	86	2,502
75 years and over	3,905	285	7.3	280	5	1.7	3,620	77	1	176	3,366
Women											
16 years and over	83,332	47,879	57.5	45,654	2,225	4.6	35,453	22,445	2,841	1,221	8,946
16 to 19 years	5,495	3,046	55.4	2,662	383	12.6	2,449	348	1,705	11	388
16 to 17 years	2,574	1,179	45.8	998	181	15.4	1,395	103	1,069	3	221
18 to 19 years	2,920	1,667	63.9	1,665	202	10.8	1,054	245	836	8	165
20 to 24 years	7,481	5,512	73.7	5,139	373	6.8	1,969	1,078	631	25	236
25 to 54 years	45,127	33,570	74.4	32,256	1,314	3.9	11,557	9,516	485	372	1,184
25 to 34 years	17,958	13,327	74.2	12,722	605	4.5	4,631	3,839	288	83	421
25 to 29 years	8,745	8,539	74.8	6,224	315	4.8	2,205	1,794	171	39	201
30 to 34 years	9,213	6,788	73.7	6,488	289	4.3	2,426	2,045	116	44	220
35 to 44 years	16,056	12,312	76.7	11,858	454	3.7	3,744	3,087	151	135	371
35 to 39 years	8,451	6,395	75.7	6,147	248	3.9	2,056	1,717	89	61	189
40 to 44 years	7,605	5,917	77.8	5,711	206	3.5	1,868	1,371	82	75	181
45 to 54 years	11,113	7,930	71.4	7,678	254	3.2	3,183	2,590	47	154	392
45 to 49 years	8,089	4,552	75.0	4,399	153	3.4	1,516	1,247	32	69	167
50 to 54 years	5,045	3,378	67.0	3,277	101	3.0	1,667	1,343	14	85	225
55 to 64 years	9,715	4,427	45.6	4,309	118	2.7	5,288	3,726	12	248	1,302
55 to 59 years	4,755	2,649	55.7	2,575	74	2.8	2,106	1,603	9	121	374
60 to 64 years	4,959	1,778	35.8	1,734	44	2.5	3,182	2,124	3	127	928
65 years and over	15,514	1,325	8.5	1,288	37	2.8	14,190	7,777	9	565	5,838
65 to 69 years	4,876	828	17.0	805	24	2.9	4,048	2,426	3	96	1,523
70 to 74 years	4,017	324	8.1	316	8	2.5	3,693	2,113	2	100	1,478
75 years and over	8,621	173	2.6	167	5	3.1	6,448	3,238	4	368	2,838

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

(Numbers in thousands)

Age, sex, and race	1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
BLACK											
16 years and over	21,300	13,493	63.3	11,966	1,527	11.3	7,808	2,854	1,385	836	2,733
16 to 19 years	2,150	831	38.6	573	258	31.1	1,319	112	969	7	231
16 to 17 years	1,061	295	27.8	187	108	36.7	766	29	614	1	121
18 to 19 years	1,089	536	49.2	386	150	28.0	553	83	355	6	110
20 to 24 years	2,437	1,679	68.9	1,344	335	19.9	758	304	260	28	167
25 to 54 years	12,079	9,643	79.8	8,773	870	9.0	2,435	1,367	151	353	564
25 to 34 years	5,344	4,263	79.8	3,763	500	11.7	1,081	645	104	86	246
25 to 29 years	2,673	2,110	78.9	1,845	264	12.5	563	328	68	35	135
30 to 34 years	2,671	2,154	80.6	1,918	236	11.0	518	319	36	51	111
35 to 44 years	4,081	3,358	82.3	3,095	263	7.8	723	389	36	126	172
35 to 39 years	2,275	1,869	82.2	1,711	159	8.5	406	227	25	59	95
40 to 44 years	1,806	1,489	82.4	1,385	104	7.0	317	162	11	67	77
45 to 54 years	2,653	2,022	76.2	1,915	107	5.3	631	333	11	141	146
45 to 49 years	1,407	1,119	79.5	1,055	64	5.7	288	156	9	61	63
50 to 54 years	1,246	903	72.5	860	43	4.8	343	178	2	81	83
55 to 64 years	2,129	1,060	49.8	1,012	49	4.6	1,069	422	4	196	448
55 to 59 years	1,105	649	58.7	617	32	5.0	456	205	2	99	151
60 to 64 years	1,024	411	40.2	395	17	4.1	812	217	2	96	297
65 years and over	2,506	279	11.1	264	15	5.3	2,227	650	2	252	1,324
65 to 69 years	912	166	18.2	155	12	7.0	746	224	1	71	450
70 to 74 years	645	76	11.7	73	2	3.0	570	166	-	47	357
75 years and over	948	37	3.9	38	1	2.2	912	260	1	133	517
Men											
16 years and over	9,567	6,708	70.1	5,915	793	11.8	2,859	148	663	440	1,609
16 to 19 years	1,065	433	40.6	294	139	32.1	633	13	489	4	127
16 to 17 years	539	156	29.0	95	61	38.9	363	5	310	1	66
18 to 19 years	527	276	52.5	198	78	28.2	250	8	179	3	61
20 to 24 years	1,109	851	76.8	679	172	20.2	258	18	125	18	96
25 to 54 years	5,424	4,739	87.4	4,293	446	9.4	685	74	48	220	343
25 to 34 years	2,422	2,151	88.8	1,903	248	11.5	271	35	35	60	142
25 to 29 years	1,214	1,075	88.5	948	127	11.8	139	17	23	24	75
30 to 34 years	1,208	1,076	89.1	955	122	11.3	132	18	11	36	67
35 to 44 years	1,824	1,606	88.1	1,470	136	8.5	218	23	11	78	106
35 to 39 years	1,017	899	88.5	819	81	9.0	117	12	7	40	58
40 to 44 years	807	707	87.6	652	55	7.8	100	11	3	39	47
45 to 54 years	1,178	982	83.3	920	62	6.3	196	16	3	82	96
45 to 49 years	623	540	86.6	502	38	7.0	84	7	2	35	39
50 to 54 years	555	442	79.7	419	24	5.4	113	9	1	46	56
55 to 64 years	957	554	57.9	524	30	5.5	403	20	-	106	277
55 to 59 years	499	336	67.4	317	20	5.9	163	11	-	57	94
60 to 64 years	458	218	47.5	207	10	4.8	240	9	-	49	182
65 years and over	1,012	131	13.0	125	6	4.6	881	22	1	92	766
65 to 69 years	386	73	19.0	69	4	5.9	313	7	-	30	276
70 to 74 years	287	41	14.2	39	1	3.4	246	6	-	21	219
75 years and over	339	17	5.0	17	-	(¹)	322	10	-	41	271
Women											
16 years and over	11,733	6,785	57.8	6,051	734	10.8	4,948	2,706	722	396	1,123
16 to 19 years	1,085	398	36.7	279	120	30.0	686	99	480	4	103
16 to 17 years	522	138	26.5	91	47	34.2	384	24	304	1	55
18 to 19 years	562	260	46.2	188	72	27.8	303	75	176	3	48
20 to 24 years	1,329	828	62.3	666	163	19.7	501	285	135	10	71
25 to 54 years	6,654	4,904	73.7	4,480	424	6.7	1,750	1,293	102	134	221
25 to 34 years	2,922	2,113	72.3	1,860	252	11.9	810	610	69	26	105
25 to 29 years	1,459	1,035	70.9	898	138	13.3	424	309	44	11	60
30 to 34 years	1,463	1,077	73.7	963	115	10.6	385	301	24	16	45
35 to 44 years	2,257	1,752	77.6	1,625	127	7.2	505	366	25	48	66
35 to 39 years	1,258	970	77.1	892	78	8.0	289	215	18	19	37
40 to 44 years	998	782	78.3	733	49	6.2	217	151	7	28	30
45 to 54 years	1,475	1,040	70.5	995	45	4.4	435	317	8	60	50
45 to 49 years	784	579	73.9	553	26	4.5	204	149	7	25	24
50 to 54 years	691	461	66.6	441	19	4.2	231	168	2	34	26
55 to 64 years	1,172	506	43.2	488	19	3.7	666	402	4	89	171
55 to 59 years	606	313	51.6	300	12	3.9	294	194	2	42	56
60 to 64 years	566	194	34.3	188	6	3.2	372	208	2	47	115
65 years and over	1,493	148	9.9	139	9	5.8	1,346	627	1	160	557
65 to 69 years	525	93	17.7	86	7	7.8	433	217	1	41	173
70 to 74 years	358	35	9.7	34	1	2.6	323	159	-	26	138
75 years and over	610	20	3.2	19	1	(¹)	590	251	1	93	246

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

4. Employment status of the black-and-other civilian noninstitutional population by age and sex

(Numbers in thousands)

Age and sex	1990								Not in labor force	
	Civilian noninstitutional population	Civilian labor force						Number		Percent of labor force
		Total	Percent of population	Employed			Unemployed			
				Total	Agriculture	Nonagricultural industries				
TOTAL										
16 years and over	27,635	17,610	63.7	15,827	212	15,615	1,783	10.1	10,025	
16 to 19 years	2,699	1,035	38.3	743	11	732	292	28.2	1,664	
16 to 17 years	1,340	369	27.6	250	6	244	119	32.3	970	
18 to 19 years	1,360	666	49.0	493	5	488	173	26.0	694	
20 to 24 years	3,116	2,134	68.5	1,757	23	1,734	377	17.7	982	
25 to 54 years	16,044	12,721	79.3	11,686	135	11,551	1,036	8.1	3,323	
25 to 34 years	6,958	5,484	78.8	4,909	53	4,857	575	10.5	1,473	
25 to 29 years	3,469	2,702	77.9	2,404	30	2,374	299	11.1	767	
30 to 34 years	3,489	2,782	79.7	2,506	23	2,483	276	9.9	707	
35 to 44 years	5,486	4,473	81.5	4,154	52	4,102	319	7.1	1,013	
35 to 39 years	3,048	2,476	81.2	2,286	27	2,260	189	7.7	572	
40 to 44 years	2,438	1,997	81.9	1,868	26	1,842	129	6.5	441	
45 to 54 years	3,600	2,764	76.8	2,622	30	2,593	142	5.1	836	
45 to 49 years	1,960	1,560	79.6	1,475	21	1,454	85	5.5	400	
50 to 54 years	1,640	1,204	73.4	1,148	9	1,138	57	4.7	435	
55 to 64 years	2,689	1,375	51.1	1,313	28	1,286	61	4.5	1,314	
55 to 59 years	1,404	849	60.5	808	16	793	41	4.8	555	
60 to 64 years	1,285	526	40.9	505	12	493	21	3.9	760	
65 years and over	3,086	345	11.2	328	15	313	17	4.9	2,741	
65 to 69 years	1,148	211	18.4	197	9	188	13	6.3	937	
70 to 74 years	800	90	11.3	88	4	84	3	2.9	710	
75 years and over	1,138	44	3.9	43	3	40	1	2.8	1,094	
Men										
16 years and over	12,568	8,936	71.1	8,003	181	7,822	933	10.4	3,832	
16 to 19 years	1,347	537	39.9	381	10	370	156	29.1	810	
16 to 17 years	681	192	28.2	126	5	120	66	34.4	489	
18 to 19 years	666	345	51.8	255	5	250	90	26.1	321	
20 to 24 years	1,446	1,094	75.7	899	21	878	195	17.8	352	
25 to 54 years	7,315	6,410	87.6	5,874	114	5,761	538	8.4	905	
25 to 34 years	3,201	2,822	88.2	2,532	44	2,488	289	10.3	379	
25 to 29 years	1,599	1,404	87.8	1,258	25	1,233	146	10.4	195	
30 to 34 years	1,602	1,418	88.6	1,274	19	1,256	144	10.1	163	
35 to 44 years	2,485	2,209	88.9	2,045	45	2,000	165	7.4	275	
35 to 39 years	1,385	1,231	88.9	1,136	23	1,113	95	7.8	154	
40 to 44 years	1,100	978	89.0	909	22	888	69	7.1	121	
45 to 54 years	1,629	1,379	84.6	1,297	25	1,272	82	5.9	251	
45 to 49 years	887	773	87.2	723	17	707	50	6.5	114	
50 to 54 years	742	605	81.6	574	9	565	32	5.2	137	
55 to 64 years	1,197	726	60.6	688	21	666	39	5.3	471	
55 to 59 years	628	439	70.0	414	11	403	25	5.8	188	
60 to 64 years	570	287	50.3	273	10	263	13	4.7	263	
65 years and over	1,263	168	13.3	161	14	146	8	4.6	1,095	
65 to 69 years	486	98	20.2	93	9	84	5	5.6	388	
70 to 74 years	359	49	13.6	47	3	44	2	3.6	310	
75 years and over	418	21	5.1	21	3	18	1	(¹)	397	
Women										
16 years and over	15,067	8,674	57.6	7,825	32	7,793	850	9.8	6,392	
16 to 19 years	1,353	498	36.8	362	-	361	136	27.3	855	
16 to 17 years	659	177	26.9	124	-	124	53	30.0	482	
18 to 19 years	694	321	46.2	238	-	238	83	25.9	373	
20 to 24 years	1,670	1,040	62.2	858	2	858	182	17.5	631	
25 to 54 years	8,729	6,311	72.3	5,812	22	5,790	500	7.9	2,418	
25 to 34 years	3,757	2,662	70.9	2,377	9	2,368	285	10.7	1,095	
25 to 29 years	1,870	1,298	69.4	1,146	5	1,141	153	11.8	571	
30 to 34 years	1,887	1,364	72.3	1,231	5	1,227	133	9.7	523	
35 to 44 years	3,001	2,263	75.4	2,109	8	2,101	154	6.8	738	
35 to 39 years	1,663	1,245	74.9	1,151	4	1,147	94	7.5	418	
40 to 44 years	1,339	1,019	76.1	958	4	954	60	5.9	320	
45 to 54 years	1,971	1,385	70.3	1,325	5	1,321	60	4.3	585	
45 to 49 years	1,073	787	73.3	751	4	747	35	4.5	286	
50 to 54 years	898	599	66.7	574	1	573	25	4.2	299	
55 to 64 years	1,492	648	43.5	626	7	619	23	3.5	843	
55 to 59 years	776	410	52.8	394	4	390	15	3.7	366	
60 to 64 years	715	239	33.4	231	2	229	7	3.1	477	
65 years and over	1,823	177	9.7	168	1	167	9	5.3	1,646	
65 to 69 years	662	113	17.0	105	-	105	8	6.9	550	
70 to 74 years	441	41	9.4	41	1	40	1	2.1	400	
75 years and over	719	23	3.2	22	-	22	1	(¹)	697	

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

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	1989	1990	1989	1990	1989	1990	1989	1990
TOTAL								
Civilian noninstitutional population	186,393	188,049	81,619	82,704	90,550	91,552	14,223	13,794
Civilian labor force	123,869	124,787	63,704	64,368	52,212	53,010	7,954	7,410
Percent of population	66.5	66.4	78.1	77.8	57.7	57.9	55.9	53.7
Employed	117,342	117,914	60,837	61,198	49,745	50,455	6,759	6,261
Agriculture	3,199	3,186	2,307	2,303	642	634	250	249
Nonagricultural industries	114,142	114,728	58,530	58,895	49,103	49,821	6,510	6,012
Unemployed	6,528	6,874	2,867	3,170	2,467	2,555	1,194	1,149
Unemployment rate	5.3	5.5	4.5	4.9	4.7	4.8	15.0	15.5
Not in labor force	62,523	63,262	17,915	18,336	38,339	38,542	6,270	6,385
White								
Civilian noninstitutional population	159,338	160,415	70,654	71,482	77,154	77,838	11,530	11,095
Civilian labor force	106,355	107,177	55,441	55,969	44,105	44,834	6,809	6,374
Percent of population	66.7	66.8	78.5	78.3	57.2	57.6	59.1	57.5
Employed	101,584	102,087	53,292	53,576	42,346	42,992	5,946	5,518
Agriculture	2,996	2,974	2,149	2,132	608	603	239	239
Nonagricultural industries	98,588	99,113	51,143	51,444	41,738	42,389	5,707	5,280
Unemployed	4,770	5,091	2,149	2,393	1,758	1,842	863	856
Unemployment rate	4.5	4.7	3.9	4.3	4.0	4.1	12.7	13.4
Not in labor force	52,983	53,237	15,213	15,513	33,050	33,004	4,721	4,720
Black								
Civilian noninstitutional population	21,021	21,300	8,364	8,502	10,482	10,649	2,176	2,150
Civilian labor force	13,497	13,493	6,221	6,275	6,352	6,387	925	831
Percent of population	64.2	63.3	74.4	73.8	60.6	60.0	42.5	38.6
Employed	11,953	11,966	5,602	5,621	5,727	5,772	625	573
Agriculture	150	140	119	116	23	18	8	7
Nonagricultural industries	11,803	11,826	5,483	5,505	5,703	5,755	617	566
Unemployed	1,544	1,527	619	654	625	614	300	258
Unemployment rate	11.4	11.3	10.0	10.4	9.8	9.6	32.4	31.1
Not in labor force	7,524	7,808	2,143	2,227	4,130	4,262	1,251	1,319

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	12,824	6,203	48.4	5,528	1,189	4,339	675	136	539	10.9
16 to 19 years	8,556	3,695	43.2	3,188	361	2,827	507	71	435	13.7
20 to 24 years	4,268	2,508	58.8	2,339	827	1,512	169	64	104	6.7
High school	6,381	2,572	40.3	2,154	165	1,989	419	57	362	16.3
College	6,443	3,631	56.4	3,374	1,024	2,350	256	79	177	7.1
Full-time students	5,419	2,732	50.4	2,523	479	2,044	209	54	156	7.7
Part-time students	1,024	899	87.8	852	545	307	47	25	22	5.2
Men, 16 to 24 years	6,458	3,079	47.7	2,715	612	2,103	365	77	288	11.6
16 to 19 years	4,342	1,860	42.9	1,587	195	1,392	273	40	233	14.7
20 to 24 years	2,117	1,219	57.6	1,127	417	711	91	37	55	7.5
High school	3,359	1,370	40.8	1,140	101	1,039	230	35	196	16.8
College	3,099	1,709	55.1	1,575	511	1,064	134	42	92	7.9
Full-time students	2,645	1,297	49.0	1,189	255	933	109	28	81	8.4
Part-time students	454	412	90.7	386	256	130	25	14	11	6.2
Women, 16 to 24 years	6,366	3,124	49.1	2,813	577	2,236	311	59	252	9.9
16 to 19 years	4,214	1,835	43.5	1,601	166	1,435	233	31	202	12.7
20 to 24 years	2,152	1,289	59.9	1,212	411	801	77	28	50	6.0
High school	3,023	1,202	39.8	1,014	64	950	188	22	166	15.7
College	3,343	1,922	57.5	1,799	513	1,287	122	37	85	6.4
Full-time students	2,773	1,434	51.7	1,334	224	1,110	101	26	75	7.0
Part-time students	570	467	85.5	466	289	176	22	11	11	4.4
White										
Total, 16 to 24 years	10,320	5,353	51.9	4,641	1,023	3,618	512	94	417	9.6
16 to 19 years	6,808	3,210	47.2	2,822	317	2,504	366	52	336	12.1
20 to 24 years	3,512	2,143	61.0	2,020	706	1,314	123	42	81	5.8
Men	5,202	2,663	51.2	2,383	530	1,853	280	52	228	10.5
Women	5,119	2,690	52.6	2,458	493	1,965	232	42	190	8.6
High school	4,959	2,213	44.6	1,895	139	1,756	318	40	278	14.4
College	5,361	3,140	58.6	2,946	884	2,062	194	55	139	6.2
Full-time students	4,514	2,387	52.9	2,228	422	1,806	160	37	123	6.7
Part-time students	847	753	88.9	719	463	256	34	18	17	4.8
Black										
Total, 16 to 24 years	1,851	612	33.1	478	117	361	134	35	99	21.9
18 to 19 years	1,355	372	27.5	271	29	243	101	17	83	27.0
20 to 24 years	497	240	48.3	207	88	119	33	18	16	14.0
Men	914	294	32.1	225	53	172	69	21	48	23.4
Women	937	318	33.9	253	63	189	65	14	51	20.6
High school	1,130	282	24.9	194	19	175	88	15	73	31.3
College	721	330	45.8	264	98	166	46	20	26	13.9
Full-time students	597	227	38.0	191	38	152	36	13	23	16.0
Part-time students	124	103	83.1	94	60	34	10	6	4	9.4
Hispanic origin										
Total, 16 to 24 years	1,050	423	40.3	358	105	253	65	14	51	15.4
16 to 19 years	766	250	32.6	199	32	168	51	8	42	20.3
20 to 24 years	284	173	60.9	158	73	85	15	6	9	8.5
Men	520	227	43.6	189	55	134	38	9	28	18.6
Women	530	196	37.0	168	50	119	28	5	23	14.1
High school	682	204	29.9	158	28	130	46	8	36	22.6
College	368	219	59.4	200	77	123	19	6	13	8.8
Full-time students	275	137	49.8	121	27	94	15	4	12	11.2
Part-time students	94	82	87.7	78	50	29	4	2	2	4.7

See footnotes at end of table.

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL NOT ENROLLED										
Total, 16 to 24 years	18,769	15,049	80.2	13,355	10,966	2,389	1,694	1,446	248	11.3
16 to 19 years	5,238	3,715	70.9	3,073	1,956	1,116	642	490	152	17.3
20 to 24 years	13,531	11,335	83.8	10,282	9,010	1,272	1,052	956	96	9.3
Less than 4 years of high school	5,278	3,340	63.3	2,673	1,883	790	667	538	129	20.0
4 years of high school	8,064	7,309	84.4	6,550	5,513	1,037	758	674	84	10.4
1 to 3 years of college	3,304	2,950	89.3	2,756	2,311	445	193	161	32	6.6
4 years of college or more	1,524	1,451	95.2	1,375	1,259	117	76	73	3	5.2
Men, 16 to 24 years	9,136	8,078	88.4	7,147	6,182	965	931	833	97	11.5
16 to 19 years	2,605	2,005	77.0	1,649	1,147	502	356	288	68	17.8
20 to 24 years	6,531	6,073	93.0	5,498	5,035	463	575	545	29	9.5
Less than 4 years of high school	2,750	2,130	77.5	1,730	1,346	384	400	345	55	18.8
4 years of high school	4,247	3,933	92.6	3,529	3,141	387	404	378	26	10.3
1 to 3 years of college	1,484	1,385	93.3	1,293	1,134	159	92	77	14	6.6
4 years of college or more	655	630	96.1	596	561	34	34	33	1	5.5
Women, 16 to 24 years	9,633	6,971	72.4	6,208	4,784	1,424	784	613	151	11.0
16 to 19 years	2,633	1,709	64.9	1,423	809	614	286	202	64	16.7
20 to 24 years	7,000	5,262	75.2	4,784	3,975	810	478	411	67	9.1
Less than 4 years of high school	2,528	1,209	47.8	943	537	406	266	193	73	22.0
4 years of high school	4,417	3,376	76.4	3,022	2,372	650	354	296	58	10.5
1 to 3 years of college	1,820	1,565	86.0	1,463	1,176	286	102	84	18	6.5
4 years of college or more	868	821	94.6	780	697	82	42	40	2	5.1
White										
Total, 16 to 24 years	15,457	12,730	82.4	11,542	9,512	2,029	1,189	1,011	178	9.3
16 to 19 years	4,287	3,164	73.8	2,697	1,737	960	468	359	109	14.8
20 to 24 years	11,171	9,566	85.6	8,845	7,776	1,069	721	652	69	7.5
Men	7,600	6,883	90.3	6,199	5,397	802	664	594	70	9.7
Women	7,857	5,887	74.7	5,343	4,116	1,227	524	417	108	8.9
Less than 4 years of high school	4,233	2,820	66.6	2,342	1,668	674	478	386	92	17.0
4 years of high school	7,057	6,088	86.3	5,576	4,710	866	512	454	58	8.4
1 to 3 years of college	2,793	2,509	89.8	2,373	1,987	388	135	111	25	5.4
4 years of college or more	1,375	1,314	95.6	1,251	1,146	103	63	60	3	4.8
Black										
Total, 16 to 24 years	2,736	1,898	69.4	1,439	1,146	293	459	396	63	24.2
16 to 19 years	795	459	57.7	301	172	129	158	119	39	34.4
20 to 24 years	1,941	1,439	74.2	1,138	974	164	301	277	24	20.9
Men	1,259	990	78.6	748	615	132	242	218	24	24.5
Women	1,476	908	61.5	692	531	161	217	178	39	23.9
Less than 4 years of high school	866	424	48.8	252	158	94	171	138	33	40.4
4 years of high school	1,385	1,050	75.8	819	674	145	231	207	23	22.0
1 to 3 years of college	393	340	86.5	291	246	45	49	43	6	14.3
4 years of college or more	90	85	95.0	77	68	9	8	8	-	9.8
Hispanic origin										
Total, 16 to 24 years	2,349	1,731	73.7	1,530	1,309	221	201	178	23	11.6
16 to 19 years	658	422	64.1	341	256	85	81	68	13	19.1
20 to 24 years	1,690	1,309	77.4	1,188	1,052	136	120	110	10	9.2
Men	1,231	1,097	89.1	979	879	100	118	107	11	10.7
Women	1,118	634	56.7	551	429	121	83	71	12	13.2
Less than 4 years of high school	1,260	637	50.5	720	620	100	117	104	13	13.9
4 years of high school	817	657	80.4	592	499	93	65	57	8	9.9
1 to 3 years of college	225	194	86.4	178	154	25	16	14	2	8.3
4 years of college or more	47	43	91.4	39	36	3	4	4	-	8.3

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

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

(In thousands)

Sex, age, and race	1990							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time		
TOTAL								
Total, 16 years and over	97,994	96,113	1,880	19,920	16,697	3,223	5,541	1,332
16 to 19 years	2,318	2,201	117	3,943	3,455	488	561	587
16 to 17 years	354	330	24	1,974	1,817	158	136	369
18 to 19 years	1,964	1,870	93	1,969	1,639	330	426	218
20 years and over	95,676	93,912	1,763	15,977	13,242	2,735	4,980	745
20 to 24 years	9,837	9,552	286	2,785	2,237	548	1,021	200
25 years and over	85,838	84,361	1,478	13,192	11,006	2,187	3,959	545
25 to 54 years	74,714	73,460	1,254	9,425	7,609	1,816	3,589	412
55 years and over	11,125	10,901	224	3,767	3,397	371	370	133
Men, 16 years and over	57,982	56,866	1,116	6,452	5,118	1,335	3,264	535
16 to 19 years	1,343	1,274	69	1,894	1,659	235	328	301
20 years and over	56,640	55,592	1,048	4,558	3,459	1,099	2,936	234
20 to 24 years	5,452	5,282	170	1,174	927	246	582	84
25 years and over	51,188	50,311	877	3,385	2,532	853	2,353	150
25 to 54 years	44,229	43,489	740	1,842	1,145	697	2,098	89
55 years and over	6,959	6,821	137	1,543	1,387	156	255	61
Women, 16 years and over	40,011	39,247	764	13,468	11,580	1,888	2,277	797
16 to 19 years	975	927	48	2,049	1,796	253	233	286
20 years and over	39,036	38,320	716	11,419	9,783	1,635	2,044	511
20 to 24 years	4,386	4,270	115	1,611	1,309	302	439	116
25 years and over	34,650	34,050	600	9,808	8,474	1,334	1,605	395
25 to 54 years	30,485	29,971	514	7,584	6,464	1,119	1,491	323
55 years and over	4,166	4,079	87	2,224	2,010	215	115	72
White								
Men, 16 years and over	50,888	49,931	957	5,544	4,493	1,051	2,446	420
16 to 19 years	1,197	1,134	62	1,659	1,463	196	242	231
20 years and over	49,691	48,797	895	3,885	3,030	855	2,204	189
20 to 24 years	4,730	4,583	147	996	801	195	405	66
25 years and over	44,961	44,214	748	2,889	2,229	661	1,799	122
25 to 54 years	38,708	38,080	628	1,488	955	533	1,583	69
55 years and over	6,253	6,134	119	1,401	1,273	128	216	53
Women, 16 years and over	33,625	33,003	621	12,030	10,468	1,561	1,601	624
16 to 19 years	858	817	41	1,805	1,588	217	170	214
20 years and over	32,767	32,187	580	10,225	8,880	1,345	1,431	411
20 to 24 years	3,751	3,659	92	1,388	1,139	249	290	84
25 years and over	29,016	28,528	488	8,837	7,741	1,096	1,142	327
25 to 54 years	25,393	24,980	413	6,864	5,943	921	1,049	265
55 years and over	3,623	3,548	75	1,973	1,799	174	93	62
Black								
Men, 16 years and over	5,261	5,130	131	654	427	227	699	94
16 to 19 years	108	102	6	186	153	33	79	60
20 years and over	5,153	5,028	125	468	274	194	619	35
20 to 24 years	561	543	18	118	78	41	159	13
25 years and over	4,592	4,485	107	350	196	154	460	22
25 to 54 years	4,055	3,963	92	238	108	131	431	15
55 years and over	537	522	15	112	89	23	30	7
Women, 16 years and over	4,967	4,844	123	1,084	813	271	590	144
16 to 19 years	93	87	6	186	156	30	57	63
20 years and over	4,874	4,757	117	899	657	241	533	81
20 to 24 years	501	480	21	165	119	46	136	27
25 years and over	4,373	4,277	96	734	538	196	397	54
25 to 54 years	3,955	3,869	86	525	363	162	379	45
55 years and over	418	408	10	209	175	34	18	9

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

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8. Employment status of persons in families by family relationship

(Numbers in thousands)

Family relationship	1990									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over ¹	99,840	66.8	94,312	5,528	5.5	49,514	21,626	6,798	2,609	18,481
Husbands	40,092	78.1	38,794	1,298	3.2	11,273	210	186	1,029	9,848
With employed wife	26,519	91.7	25,732	787	3.0	2,393	92	107	408	1,786
With unemployed wife	1,013	92.6	901	112	11.1	81	3	4	14	59
With wife not in labor force	12,560	58.8	12,161	399	3.2	8,800	115	75	607	8,003
Wives	30,005	58.4	28,912	1,093	3.6	21,360	16,652	346	441	3,920
With employed husband	26,633	68.7	25,732	901	3.4	12,161	10,595	297	167	1,102
With unemployed husband	899	69.3	787	112	12.5	399	340	10	15	34
With husband not in labor force	2,473	21.9	2,393	81	3.3	8,800	5,718	39	259	2,784
Relatives in married-couple families	12,947	64.1	11,622	1,326	10.2	7,253	753	4,365	350	1,785
16 to 19 years	4,714	53.6	4,113	601	12.8	4,074	128	3,255	14	678
20 to 24 years	4,595	76.2	4,185	409	8.9	1,438	148	988	40	261
25 years and over	3,640	67.6	3,324	316	8.7	1,741	477	122	296	846
Women who maintain families	6,925	62.1	6,357	568	8.2	4,229	2,835	218	245	932
Relatives in families maintained by women	5,708	60.6	4,805	902	15.8	3,712	782	1,384	373	1,172
16 to 19 years	1,393	48.0	1,049	344	24.7	1,509	120	1,076	17	297
20 to 24 years	1,556	73.3	1,298	257	16.5	567	133	241	29	165
25 years and over	2,759	62.8	2,458	301	10.9	1,636	529	67	327	710
Men who maintain families	2,324	78.5	2,194	130	5.6	637	47	30	92	469
Relatives in families maintained by men	1,840	63.7	1,629	211	11.5	1,050	347	269	79	355
16 to 19 years	328	56.4	266	62	19.0	253	23	175	3	53
20 to 24 years	495	77.8	439	56	11.3	142	32	71	6	32
25 years and over	1,017	60.8	924	93	9.1	655	292	23	70	270

¹ Excludes persons living alone or with nonrelatives, persons in married-couple families where the husband or wife is in the Armed Forces, and persons in unrelated subfamilies.

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

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

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	1989	1990	1989	1990	1989	1990	1989	1990
Total, 16 years and over	3,525	3,799	5.2	5.6	3,003	3,075	5.4	5.4
Married, spouse present	1,276	1,429	3.0	3.4	1,145	1,176	3.7	3.8
Widowed, divorced, or separated	448	503	6.3	6.8	656	671	5.9	5.9
Single (never married)	1,801	1,866	9.6	10.0	1,202	1,228	8.4	8.6
White, 16 years and over	2,636	2,866	4.5	4.8	2,135	2,225	4.5	4.6
Married, spouse present	1,044	1,172	2.8	3.1	947	984	3.5	3.6
Widowed, divorced, or separated	329	382	5.6	6.2	454	471	5.1	5.2
Single (never married)	1,263	1,312	8.1	8.5	734	770	6.4	6.8
Black, 16 years and over	773	793	11.5	11.8	772	734	11.4	10.8
Married, spouse present	184	197	5.8	6.2	153	135	6.3	5.6
Widowed, divorced, or separated	106	104	10.7	10.5	187	178	9.6	9.1
Single (never married)	483	492	18.6	19.5	432	421	17.7	17.3
Total, 25 years and over	2,207	2,504	3.9	4.4	1,908	2,000	4.2	4.3
Married, spouse present	1,175	1,322	2.9	3.3	965	1,012	3.4	3.5
Widowed, divorced, or separated	422	482	6.2	6.8	600	614	5.6	5.6
Single (never married)	609	699	6.7	7.5	343	374	5.4	5.7
White, 25 years and over	1,673	1,922	3.4	3.9	1,378	1,469	3.6	3.7
Married, spouse present	961	1,088	2.7	3.0	797	850	3.2	3.3
Widowed, divorced, or separated	309	364	5.4	6.1	411	428	4.8	4.9
Single (never married)	403	469	5.5	6.2	170	191	3.5	3.9
Black, 25 years and over	457	482	8.6	8.9	465	451	8.5	8.1
Married, spouse present	171	177	5.7	5.8	129	113	5.7	5.0
Widowed, divorced, or separated	102	101	10.5	10.4	174	166	9.2	8.8
Single (never married)	185	203	13.9	14.7	163	172	12.3	12.1

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10. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1989	1990	1989	1990	1989	1990	1989	1990
Total, 16 years and over	6,528	6,874	5.3	5.5	5.2	5.6	5.4	5.4
Managerial and professional specialty	614	662	2.0	2.1	1.7	2.0	2.3	2.3
Executive, administrative, and managerial	348	348	2.3	2.3	2.0	2.1	2.8	2.5
Professional specialty	265	314	1.7	1.9	1.4	1.8	1.9	2.1
Technical, sales, and administrative support	1,470	1,605	3.9	4.2	3.3	3.7	4.3	4.5
Technicians and related support	90	115	2.4	2.9	2.4	3.2	2.4	2.6
Sales occupations	643	702	4.4	4.7	3.0	3.4	5.7	6.0
Administrative support, including clerical	738	788	3.9	4.1	4.2	4.6	3.8	3.9
Service occupations	1,088	1,110	6.5	6.6	6.5	6.6	6.6	6.5
Private household	55	45	5.9	5.5	10.5	9.9	5.7	5.3
Protective service	74	73	3.6	3.5	3.1	3.3	6.1	5.1
Service, except private household and protective	960	992	7.0	7.1	7.7	7.8	6.7	6.7
Precision production, craft, and repair	762	847	5.2	5.8	5.2	5.8	5.7	6.4
Mechanics and repairers	161	173	3.4	3.7	3.3	3.7	5.6	4.0
Construction trades	428	475	7.7	8.4	7.6	8.4	11.4	10.9
Other precision production, craft, and repair	173	199	4.0	4.7	3.7	4.2	5.0	6.3
Operators, fabricators, and laborers	1,578	1,673	8.0	8.6	7.7	8.3	9.1	9.4
Machine operators, assemblers, and inspectors	678	711	7.6	8.1	6.3	7.1	9.4	9.5
Transportation and material moving occupations	306	325	5.9	6.3	5.9	6.4	5.7	5.4
Handlers, equipment cleaners, helpers, and laborers	594	637	10.8	11.6	11.1	11.8	9.8	10.6
Construction laborers	152	172	16.8	18.1	16.7	18.0	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	442	465	9.7	10.2	9.7	10.2	9.6	10.3
Farming, forestry, and fishing	234	226	6.4	6.2	6.2	6.0	7.4	7.3
No previous work experience	749	721	-	-	-	-	-	-
16 to 19 years	499	481	-	-	-	-	-	-
20 to 24 years	132	127	-	-	-	-	-	-
25 years and over	118	112	-	-	-	-	-	-

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

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11. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1989	1990	1989	1990	1989	1990	1989	1990
Total, 16 years and over	6,528	6,874	5.3	5.5	5.2	5.6	5.4	5.4
Nonagricultural private wage and salary workers	4,947	5,306	5.3	5.7	5.3	5.8	5.4	5.5
Mining	42	36	5.8	4.8	6.2	4.8	3.9	5.0
Construction	634	705	10.0	11.1	10.3	11.4	6.9	7.5
Manufacturing	1,140	1,267	5.1	5.8	4.4	5.1	6.6	7.2
Durable goods	634	751	4.8	5.8	4.3	5.4	6.2	6.9
Lumber and wood products	47	58	6.1	7.6	6.5	7.4	3.8	8.7
Furniture and fixtures	40	39	5.8	5.6	4.6	5.2	8.6	6.5
Stone, clay, and glass products	35	36	5.3	5.6	4.6	5.2	7.9	6.8
Primary metal industries	36	44	4.1	4.9	3.9	4.7	5.8	5.9
Fabricated metal products	90	92	6.6	7.0	6.0	6.3	8.5	9.3
Machinery, except electrical	95	118	3.6	4.6	3.0	4.3	5.3	5.7
Electrical machinery, equipment, and supplies	103	120	4.8	5.6	4.3	4.6	5.5	7.0
Transportation equipment	129	168	4.8	6.4	4.3	6.2	6.7	7.0
Automobiles	79	111	6.2	9.0	5.4	8.6	9.1	10.7
Other transportation equipment	50	57	3.6	4.0	3.3	4.1	4.6	3.6
Professional and photographic equipment	24	28	3.4	3.9	2.7	2.8	4.3	5.4
Other durable goods industries	35	48	6.2	8.6	5.3	8.4	7.8	8.9
Nondurable goods	506	515	5.5	5.8	4.5	4.5	7.0	7.5
Food and kindred products	143	138	7.4	7.1	6.3	5.7	9.5	9.6
Textile mill products	35	43	4.9	5.9	3.4	5.0	6.5	6.9
Apparel and other textile products	105	108	8.4	9.3	7.9	8.6	8.6	9.6
Paper and allied products	27	31	3.5	4.1	2.5	3.7	6.7	5.5
Printing and publishing	76	77	4.0	4.2	3.8	3.8	4.3	4.7
Chemicals and allied products	43	47	3.1	3.5	2.5	2.4	4.4	5.7
Rubber and miscellaneous plastics products	50	48	6.2	6.2	5.4	5.2	7.4	8.1
Other nondurable goods industries	27	24	6.7	6.4	5.3	4.6	9.3	9.7
Transportation and public utilities	251	249	3.9	3.8	3.9	4.1	3.8	3.2
Transportation	192	195	5.0	5.1	5.0	5.4	5.1	4.3
Communications and other public utilities	59	54	2.2	2.0	2.1	1.9	2.5	2.2
Wholesale and retail trade	1,412	1,507	6.0	6.4	5.2	5.9	6.8	6.9
Wholesale trade	178	201	4.0	4.5	3.6	4.2	5.0	5.1
Retail trade	1,234	1,306	6.5	6.8	5.8	6.4	7.1	7.1
Finance, insurance, and real estate	230	218	3.1	3.0	2.9	2.8	3.2	3.0
Service industries	1,237	1,326	4.8	5.0	4.9	5.4	4.7	4.7
Professional services	439	488	3.0	3.2	2.6	3.0	3.2	3.3
Other service industries	799	837	7.0	7.2	6.7	7.2	7.3	7.3
Agricultural wage and salary workers	176	181	9.6	9.7	9.1	9.4	11.0	10.8
Government, self-employed, and unpaid family workers	655	665	2.3	2.3	2.4	2.3	2.2	2.3
No previous work experience	749	721	-	-	-	-	-	-

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12. Unemployed persons by reason for unemployment, sex, and race

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
NUMBER OF UNEMPLOYED												
Total unemployed	6,528	6,874	2,867	3,170	2,467	2,555	1,194	1,149	4,770	5,091	1,544	1,527
Job losers	2,983	3,322	1,843	2,062	942	1,042	198	219	2,240	2,534	660	678
On layoff	850	1,018	531	656	272	313	47	49	711	845	121	145
Other job losers	2,133	2,305	1,312	1,406	670	729	151	170	1,529	1,689	539	533
Job leavers	1,024	1,014	394	419	430	422	200	172	812	787	174	187
Reentrants	1,843	1,883	541	612	958	951	345	321	1,303	1,346	474	461
New entrants	677	654	88	77	137	140	452	437	416	423	235	201
PERCENT DISTRIBUTION												
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	45.7	48.3	64.3	65.0	38.2	40.8	16.5	19.0	46.9	49.8	42.8	44.4
On layoff	13.0	14.8	18.5	20.7	11.0	12.3	3.9	4.2	14.9	16.6	7.9	9.5
Other job losers	32.7	33.5	45.8	44.3	27.2	28.5	12.6	14.8	32.1	33.2	34.9	34.9
Job leavers	15.7	14.8	13.8	13.2	17.5	16.5	16.7	15.0	17.0	15.5	11.3	12.2
Reentrants	28.2	27.4	18.9	19.3	38.8	37.2	28.9	27.9	27.3	26.4	30.7	30.2
New entrants	10.4	9.5	3.1	2.4	5.5	5.5	37.9	38.1	8.7	8.3	15.2	13.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.4	2.7	2.9	3.2	1.8	2.0	2.5	2.9	2.1	2.4	4.9	5.0
Job leavers .....	.8	.8	.6	.7	.8	.8	2.5	2.3	.8	.7	1.3	1.4
Reentrants	1.5	1.5	.8	1.0	1.8	1.8	4.3	4.3	1.2	1.3	3.5	3.4
New entrants .....	.5	.5	.1	.1	.3	.3	5.7	5.9	.4	.4	1.7	1.5

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

(Percent distribution)

Reason, sex, and age	1990						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,874	100.0	46.1	32.0	21.9	11.8	10.1
Job losers	3,322	100.0	39.3	34.0	26.7	14.5	12.2
On layoff	1,018	100.0	52.6	30.9	16.5	11.1	5.4
Other job losers	2,305	100.0	33.4	35.4	31.2	16.0	15.1
Job leavers	1,014	100.0	51.9	29.8	18.3	10.3	8.0
Reentrants	1,883	100.0	51.5	30.2	18.3	9.3	9.0
New entrants	654	100.0	56.0	30.6	13.4	7.2	6.2
Men, 20 years and over	3,170	100.0	38.7	33.1	28.2	14.1	14.1
Job losers	2,062	100.0	37.1	33.8	29.2	14.9	14.3
On layoff	656	100.0	51.3	31.7	17.0	11.5	5.5
Other job losers	1,406	100.0	30.4	34.7	34.8	16.5	18.4
Job leavers	419	100.0	44.6	30.8	24.6	12.2	12.4
Reentrants	612	100.0	40.8	32.4	26.8	12.8	14.1
New entrants	77	100.0	34.0	33.4	32.6	14.5	18.1
Women, 20 years and over	2,555	100.0	48.0	32.2	19.8	11.5	8.3
Job losers	1,042	100.0	39.2	35.8	25.0	15.2	9.8
On layoff	313	100.0	52.6	30.7	16.7	10.8	5.9
Other job losers	729	100.0	33.5	37.9	28.6	17.2	11.4
Job leavers	422	100.0	53.7	30.1	16.2	10.6	5.6
Reentrants	951	100.0	54.2	29.6	16.1	8.4	7.8
New entrants	140	100.0	53.6	30.1	16.3	7.7	8.6
Both sexes, 16 to 19 years	1,149	100.0	62.3	28.6	9.1	5.9	3.3
Job losers	219	100.0	60.7	27.8	11.4	7.6	3.8
On layoff	49	100.0	70.0	21.7	8.3	6.4	1.9
Other job losers	170	100.0	58.1	29.6	12.3	7.9	4.4
Job leavers	172	100.0	65.2	26.8	8.0	5.1	2.9
Reentrants	321	100.0	64.0	27.8	8.2	5.3	2.9
New entrants	437	100.0	60.6	30.3	9.1	5.8	3.4

14. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	1989	1990	1989	1990	1989	1990	1989	1990
Total, 16 years and over	6,528	6,874	100.0	100.0	5,211	5,541	100.0	100.0
Less than 5 weeks	3,174	3,169	48.6	46.1	2,302	2,338	44.2	42.2
5 to 14 weeks	1,978	2,201	30.3	32.0	1,660	1,840	31.9	33.2
5 to 10 weeks	1,449	1,613	22.2	23.5	1,199	1,329	23.0	24.0
11 to 14 weeks	529	589	8.1	8.6	461	512	8.8	9.2
15 weeks and over	1,375	1,504	21.1	21.9	1,249	1,363	24.0	24.6
15 to 26 weeks	730	809	11.2	11.8	655	727	12.6	13.1
27 weeks and over	646	695	9.9	10.1	593	636	11.4	11.5
27 to 51 weeks	271	311	4.1	4.5	248	284	4.8	5.1
52 weeks and over	375	384	5.7	5.6	346	352	6.6	6.4
Average (mean) duration, in weeks	11.9	12.1	-	-	13.1	13.2	-	-
Median duration, in weeks	4.8	5.4	-	-	5.8	6.2	-	-

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15. Unemployed persons by sex, age, race, marital status, and duration of unemployment

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								1989	1990	1989	1990
	1990										
Total, 16 years and over	6,874	3,169	2,201	809	695	12.1	5.4	48.6	48.1	21.1	21.9
16 to 19 years	1,149	715	328	68	38	6.7	3.6	63.7	62.3	9.4	9.1
20 to 24 years	1,221	650	386	114	71	9.2	4.2	54.3	53.3	16.3	15.1
25 to 34 years	1,972	873	659	244	196	12.0	5.8	46.0	44.3	22.3	22.3
35 to 44 years	1,301	488	443	199	172	14.3	7.3	41.2	37.5	26.7	28.5
45 to 54 years	728	265	227	113	122	17.3	8.1	38.7	36.5	30.9	32.4
55 to 64 years	396	137	123	60	76	18.5	8.5	36.1	34.7	32.6	34.2
65 years and over	107	40	36	11	21	17.6	7.3	43.6	36.9	25.5	29.7
Men, 16 years and over	3,799	1,610	1,233	487	469	13.7	6.2	44.7	42.4	24.8	25.2
16 to 19 years	629	363	184	40	22	7.0	3.7	62.0	60.9	10.1	9.9
20 to 24 years	666	327	219	72	48	10.4	4.7	50.4	49.1	19.0	18.0
25 to 34 years	1,081	437	387	148	130	13.6	6.6	41.3	40.4	26.7	25.6
35 to 44 years	693	227	243	112	111	16.3	8.5	36.2	32.8	31.8	32.2
45 to 54 years	413	132	128	67	86	20.0	9.5	33.2	32.0	37.1	37.0
55 to 64 years	255	83	73	41	58	20.9	9.9	33.0	32.5	37.4	39.0
65 years and over	81	21	19	7	14	20.1	8.4	44.9	33.9	28.4	34.4
Women, 16 years and over	3,075	1,558	968	322	226	10.0	4.4	53.3	50.7	16.7	17.8
16 to 19 years	519	332	145	28	15	6.3	3.5	65.8	63.9	8.4	8.3
20 to 24 years	555	324	167	42	23	7.7	3.9	59.0	58.3	13.0	11.8
25 to 34 years	890	436	292	97	66	10.2	4.7	51.0	49.0	17.6	18.3
35 to 44 years	608	260	200	87	61	12.0	6.1	46.9	42.8	20.8	24.3
45 to 54 years	315	133	98	46	37	13.7	6.3	45.4	42.3	23.2	26.4
55 to 64 years	141	54	50	19	18	14.1	6.7	41.1	38.7	24.7	25.7
65 years and over	46	19	16	4	7	14.5	6.3	42.0	40.8	24.4	23.6
White, 16 years and over	5,091	2,398	1,605	602	485	11.7	5.1	49.5	47.1	20.2	21.4
Men	2,866	1,246	913	370	335	13.3	5.9	45.4	43.5	24.0	24.6
Women	2,225	1,152	692	232	149	9.6	4.3	54.6	51.8	15.4	17.1
Black, 16 years and over	1,527	654	512	176	184	13.3	6.1	45.7	42.9	23.9	23.6
Men	793	305	274	97	116	15.2	7.2	41.5	38.5	27.7	26.9
Women	734	349	238	79	68	11.3	5.0	49.9	47.5	20.1	20.0
Men, 16 years and over:											
Married, spouse present	1,429	525	477	216	212	15.6	7.7	38.0	36.7	30.3	30.0
Widowed, divorced, or separated	503	184	167	70	81	16.4	7.7	38.4	36.6	31.3	30.2
Single (never married)	1,866	901	589	200	175	11.5	4.9	50.9	48.3	19.3	20.2
Women, 16 years and over:											
Married, spouse present	1,176	577	372	139	88	10.2	4.7	52.3	49.1	16.7	19.3
Widowed, divorced, or separated	671	301	221	82	67	12.2	5.6	45.6	44.9	21.5	22.2
Single (never married)	1,228	681	376	100	72	6.7	4.1	58.4	55.5	14.0	14.0

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

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								1989	1990	1989	1990
OCCUPATION											
Managerial and professional specialty	662	257	221	98	86	14.1	6.8	40.9	38.8	25.4	27.6
Technical, sales, and administrative support	1,605	748	509	197	151	11.5	5.3	50.5	46.6	19.1	21.6
Service occupations	1,110	561	338	109	103	11.1	4.5	52.9	50.5	19.2	19.1
Precision production, craft, and repair	847	349	288	115	95	13.0	6.4	43.6	41.2	25.3	24.8
Operators, fabricators, and laborers	1,673	727	539	212	195	13.2	6.0	44.3	43.5	23.8	24.3
Farming, forestry, and fishing	226	108	76	25	17	11.2	5.0	50.9	47.8	20.5	18.6
INDUSTRY¹											
Agriculture	181	88	63	17	13	10.3	4.8	53.4	48.6	18.2	16.6
Construction	721	311	249	91	69	12.0	5.9	43.3	43.1	23.5	22.2
Manufacturing	1,272	500	422	183	166	14.3	7.0	42.8	39.3	26.2	27.5
Durable goods	756	289	247	118	102	14.8	7.3	40.8	38.2	27.8	29.1
Nondurable goods	516	211	175	65	65	13.5	6.5	45.4	40.9	24.3	25.2
Transportation and public utilities	282	113	95	40	34	14.0	7.1	42.5	40.1	25.8	26.2
Wholesale and retail trade	1,514	747	469	161	137	11.0	4.7	51.4	49.3	18.9	19.7
Finance and service industries	1,786	830	556	221	177	11.9	5.3	49.4	46.5	20.4	22.3
Public administration	148	64	48	16	20	14.0	5.8	41.4	43.2	27.6	24.3
No previous work experience	721	407	219	50	45	9.3	4.0	58.5	56.4	14.0	13.2

¹ Includes wage and salary workers only.

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

Sex, age, and race	1990								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,874	5,743	22.7	8.8	71.6	39.7	19.9	4.9	1.68
16 to 19 years	1,149	1,078	12.0	4.3	78.2	28.5	16.5	3.3	1.43
20 to 24 years	1,221	1,061	23.9	8.7	71.5	40.5	19.2	4.8	1.69
25 to 34 years	1,972	1,613	26.2	10.0	70.6	43.1	20.3	4.6	1.75
35 to 44 years	1,301	1,052	26.0	10.2	70.2	43.0	21.2	5.3	1.76
45 to 54 years	728	567	25.7	11.9	68.5	42.2	22.5	6.4	1.77
55 to 64 years	396	288	24.1	9.8	67.1	41.8	23.8	6.9	1.73
65 years and over	107	83	14.4	5.2	57.9	42.7	19.7	8.2	1.48
Men, 16 years and over	3,799	3,054	24.4	8.9	72.6	38.3	22.7	5.7	1.73
16 to 19 years	629	586	12.9	4.5	79.3	27.2	18.2	2.9	1.45
20 to 24 years	666	560	25.6	8.0	73.0	39.0	22.9	5.2	1.74
25 to 34 years	1,081	833	28.7	10.5	71.2	41.6	23.8	5.5	1.81
35 to 44 years	693	535	28.7	10.4	71.0	41.5	24.1	6.7	1.62
45 to 54 years	413	308	27.0	11.8	69.2	41.8	25.2	8.8	1.84
55 to 64 years	255	182	23.6	10.0	69.0	39.7	23.7	8.2	1.74
65 years and over	61	50	14.6	4.7	61.9	43.0	20.0	10.3	1.54
Women, 16 years and over	3,075	2,688	20.8	8.8	70.4	41.4	16.8	3.9	1.62
16 to 19 years	519	492	10.9	4.2	77.0	30.0	14.5	3.8	1.41
20 to 24 years	555	502	22.0	9.5	69.7	42.3	15.0	4.4	1.63
25 to 34 years	890	780	23.4	9.5	70.0	44.8	16.7	3.7	1.68
35 to 44 years	608	517	23.1	10.1	69.4	44.5	18.1	3.8	1.69
45 to 54 years	315	259	24.2	12.1	67.8	42.8	19.3	3.4	1.70
55 to 64 years	141	106	24.8	9.5	63.8	45.3	24.0	4.7	1.72
65 years and over	46	33	(')	(')	(')	(')	(')	(')	(')
White, 16 years and over	5,091	4,145	21.9	8.9	71.8	41.6	20.4	5.3	1.70
Men	2,866	2,242	23.9	8.9	72.5	40.0	23.1	6.3	1.75
Women	2,225	1,903	19.6	8.9	71.0	43.4	17.3	4.1	1.64
Black, 16 years and over	1,527	1,373	25.3	8.4	72.2	33.7	18.3	3.4	1.61
Men	793	691	26.2	8.3	74.6	32.1	21.5	3.3	1.66
Women	734	681	24.3	8.5	69.8	35.2	15.1	3.4	1.56

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

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

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

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

Sex and reason	1990								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,874	5,743	22.7	8.8	71.6	39.7	19.9	4.9	1.68
Job losers ¹	3,322	2,278	29.4	10.4	72.9	42.0	23.5	4.4	1.83
Job leavers	1,014	985	22.4	9.7	72.2	44.2	17.1	3.6	1.69
Reentrants	1,883	1,837	17.9	7.6	68.7	38.1	17.0	6.4	1.56
New entrants	654	642	13.2	5.4	74.1	29.6	20.1	4.1	1.47
Men, 16 years and over	3,799	3,054	24.4	8.9	72.6	38.3	22.7	5.7	1.73
Job losers ¹	2,208	1,504	29.5	9.8	73.2	40.5	25.3	5.3	1.83
Job leavers	511	496	23.7	10.2	73.6	42.0	18.9	3.6	1.72
Reentrants	782	762	19.2	7.6	68.9	35.2	20.8	8.8	1.60
New entrants	298	293	13.2	5.3	77.0	28.9	20.7	3.7	1.49
Women, 16 years and over	3,075	2,688	20.8	8.8	70.4	41.4	16.8	3.9	1.62
Job losers ¹	1,114	774	29.4	11.8	72.3	44.9	20.1	2.8	1.81
Job leavers	503	490	21.1	9.3	70.7	46.4	15.3	3.7	1.67
Reentrants	1,101	1,075	17.0	7.6	68.5	40.1	14.2	4.6	1.52
New entrants	357	349	13.2	5.5	71.6	30.2	19.7	4.5	1.45

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

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

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

**HOUSEHOLD DATA
ANNUAL AVERAGES**

19. Employed civilians in agriculture and nonagricultural industries by age and sex

(In thousands)

Industry and age	Total		Men		Women	
	1989	1990	1989	1990	1989	1990
All industries	117,342	117,914	64,315	64,435	53,027	53,479
16 to 19 years	6,759	6,261	3,477	3,237	3,282	3,024
16 to 17 years	2,588	2,328	1,327	1,207	1,261	1,122
18 to 19 years	4,172	3,933	2,150	2,030	2,021	1,903
20 to 24 years	12,962	12,622	6,799	6,625	6,163	5,997
25 to 54 years	82,767	84,139	45,523	46,071	37,244	38,068
25 to 34 years	34,045	33,831	18,952	18,732	15,093	15,099
35 to 44 years	29,443	30,543	16,002	16,575	13,440	13,967
45 to 54 years	19,279	19,765	10,569	10,764	8,711	9,001
55 to 64 years	11,499	11,464	6,548	6,530	4,950	4,935
55 to 59 years	6,854	6,825	3,890	3,856	2,964	2,970
60 to 64 years	4,644	4,639	2,658	2,674	1,986	1,965
65 years and over	3,355	3,428	1,968	1,972	1,388	1,455
Agriculture	3,199	3,186	2,513	2,507	687	679
16 to 19 years	250	249	206	204	44	45
16 to 17 years	121	118	105	97	16	21
18 to 19 years	129	131	101	107	28	24
20 to 24 years	360	341	293	284	67	56
25 to 54 years	1,877	1,902	1,431	1,453	447	449
25 to 34 years	800	808	630	635	170	173
35 to 44 years	840	853	478	487	161	166
45 to 54 years	438	441	323	331	115	110
55 to 64 years	425	413	338	319	87	94
55 to 59 years	216	214	168	160	47	54
60 to 64 years	209	199	170	159	39	40
65 years and over	287	281	245	247	42	35
Nonagricultural industries	114,142	114,728	61,802	61,928	52,341	52,800
16 to 19 years	6,510	6,012	3,272	3,032	3,238	2,979
16 to 17 years	2,467	2,210	1,222	1,110	1,244	1,101
18 to 19 years	4,043	3,801	2,049	1,923	1,993	1,878
20 to 24 years	12,601	12,281	6,506	6,341	6,096	5,940
25 to 54 years	80,889	82,237	44,092	44,618	36,797	37,619
25 to 34 years	33,245	33,023	18,322	18,097	14,923	14,926
35 to 44 years	28,803	29,890	15,524	16,089	13,279	13,802
45 to 54 years	18,841	19,324	10,246	10,433	8,595	8,891
55 to 64 years	11,074	11,052	6,210	6,211	4,864	4,841
55 to 59 years	6,639	6,611	3,722	3,696	2,917	2,915
60 to 64 years	4,435	4,440	2,488	2,515	1,947	1,925
65 years and over	3,069	3,146	1,723	1,726	1,346	1,421

**HOUSEHOLD DATA
ANNUAL AVERAGES**

20. Employed civilians by occupation, sex, and age

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
Total	117,342	117,914	64,315	64,435	60,837	61,198	53,027	53,479	49,745	50,455
Managerial and professional specialty	30,398	30,657	16,652	16,619	16,554	16,528	13,746	14,038	13,618	13,915
Executive, administrative, and managerial	14,848	14,839	8,944	8,897	8,902	8,857	5,904	5,943	5,857	5,895
Officials and administrators, public administration	607	584	362	354	361	354	245	230	245	229
Other executive, administrative, and managerial	10,333	10,362	6,645	6,592	6,610	6,558	3,688	3,770	3,851	3,731
Management-related occupations	3,908	3,893	1,937	1,950	1,931	1,945	1,971	1,943	1,960	1,934
Professional specialty	15,550	15,818	7,708	7,723	7,652	7,671	7,842	8,095	7,761	8,020
Engineers	1,823	1,862	1,686	1,714	1,685	1,713	138	149	137	148
Mathematical and computer scientists	853	866	548	550	547	549	304	316	304	315
Natural scientists	413	401	302	297	301	297	111	104	111	104
Health diagnosing occupations	854	871	713	716	712	714	141	155	141	154
Health assessment and treating occupations	2,242	2,320	340	320	338	319	1,902	2,000	1,898	1,997
Teachers, college and university	709	765	435	476	433	473	275	288	271	283
Teachers, except college and university	3,936	3,993	1,052	1,052	1,039	1,040	2,884	2,941	2,853	2,911
Lawyers and judges	774	756	601	599	601	599	173	157	173	156
Other professional specialty occupations	3,945	3,984	2,031	2,000	1,995	1,968	1,914	1,985	1,875	1,951
Technical, sales, and administrative support	36,127	36,675	12,687	12,933	11,999	12,278	23,440	23,742	21,660	22,115
Technicians and related support	3,645	3,842	1,887	1,954	1,861	1,923	1,759	1,888	1,736	1,862
Health technologists and technicians	1,276	1,303	225	215	223	213	1,051	1,087	1,043	1,077
Engineering and science technicians	1,153	1,220	910	949	894	931	244	270	235	261
Technicians, except health, engineering, and science	1,218	1,320	752	789	743	779	464	531	458	524
Sales occupations	14,065	14,191	7,124	7,208	6,687	6,814	6,941	6,983	5,860	5,980
Supervisors and proprietors	3,828	3,812	2,496	2,485	2,470	2,465	1,332	1,327	1,301	1,299
Sales representatives, finance and business services	2,371	2,431	1,339	1,389	1,324	1,376	1,032	1,042	997	1,016
Sales representatives, commodities, except retail	1,612	1,637	1,282	1,278	1,271	1,268	329	360	323	351
Sales workers, retail and personal services	6,186	6,239	1,990	2,031	1,607	1,680	4,196	4,208	3,191	3,273
Sales-related occupations	68	72	17	26	16	25	51	46	47	41
Administrative support, including clerical	18,416	18,641	3,676	3,771	3,451	3,541	14,741	14,870	14,065	14,273
Supervisors	736	771	308	322	306	320	428	449	426	448
Computer equipment operators	876	815	313	279	301	269	563	536	537	516
Secretaries, stenographers, and typists	4,788	4,655	79	77	72	73	4,708	4,577	4,535	4,428
Financial records processing	2,394	2,418	214	204	206	197	2,180	2,215	2,135	2,172
Mail and message distributing	952	974	605	625	581	600	348	349	329	335
Other administrative support, including clerical	8,670	9,008	2,157	2,264	1,983	2,081	6,513	6,744	6,102	6,375
Service occupations	15,556	15,759	6,164	6,288	5,198	5,372	9,391	9,470	8,307	8,463
Private household	872	782	36	29	27	22	836	753	703	641
Protective service	1,960	1,988	1,654	1,697	1,606	1,648	305	291	278	264
Service, except private household and protective	12,724	12,989	4,474	4,562	3,564	3,702	8,250	8,427	7,326	7,558
Food service	5,351	5,359	2,127	2,168	1,442	1,525	3,224	3,191	2,587	2,605
Health service	2,042	2,087	204	204	188	191	1,838	1,883	1,742	1,803
Cleaning and building service	2,997	3,118	1,718	1,745	1,570	1,598	1,279	1,372	1,216	1,307
Personal service	2,333	2,425	425	445	364	388	1,908	1,980	1,781	1,844
Precision production, craft, and repair	13,818	13,641	12,627	12,482	12,295	12,199	1,190	1,159	1,160	1,128
Mechanics and repairers	4,550	4,448	4,397	4,289	4,288	4,202	153	159	151	157
Construction trades	5,142	5,147	5,034	5,051	4,880	4,910	108	96	104	93
Other precision production, craft, and repair	4,126	4,046	3,196	3,142	3,147	3,087	929	904	905	879
Operators, fabricators, and laborers	18,022	17,775	13,327	13,249	12,219	12,224	4,695	4,526	4,484	4,332
Machine operators, assemblers, and inspectors	8,248	8,071	4,878	4,842	4,690	4,667	3,370	3,229	3,271	3,142
Manufacturing industries	6,774	6,594	3,957	3,938	3,827	3,801	2,816	2,655	2,739	2,593
Durable goods	3,729	3,639	2,547	2,538	2,470	2,461	1,182	1,101	1,155	1,080
Nondurable goods	3,045	2,955	1,411	1,400	1,357	1,340	1,634	1,554	1,583	1,513
Nonmanufacturing industries	1,475	1,477	921	904	864	866	554	573	532	550
Transportation and material moving occupations	4,886	4,849	4,438	4,413	4,302	4,289	450	436	436	427
Motor vehicle operators	3,602	3,589	3,189	3,200	3,088	3,098	402	389	390	380
Other transportation and material moving occupations	1,284	1,261	1,237	1,214	1,215	1,191	47	47	46	47
Handlers, equipment cleaners, helpers, and laborers	4,888	4,855	4,013	3,994	3,227	3,268	875	861	777	763
Construction laborers	755	774	732	750	652	673	23	24	20	23
Other handlers, equipment cleaners, helpers, and laborers	4,133	4,080	3,280	3,244	2,575	2,595	853	836	757	740
Farming, forestry, and fishing	3,421	3,408	2,857	2,864	2,572	2,597	565	544	517	501
Farm operators and managers	2,269	2,238	1,074	1,043	1,060	1,031	195	195	192	192
Other farming, forestry, and fishing occupations	2,153	2,170	1,783	1,821	1,511	1,566	369	349	325	306

**HOUSEHOLD DATA
ANNUAL AVERAGES**

21. Employed civilians by occupation, race, and sex

(Percent distribution)

Occupation and race	Total		Men		Women	
	1989	1990	1989	1990	1989	1990
TOTAL						
Total, 16 years and over (thousands)	117,342	117,914	64,315	64,435	53,027	53,479
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.9	26.0	25.9	25.8	25.9	26.2
Executive, administrative, and managerial	12.7	12.6	13.9	13.8	11.1	11.1
Professional specialty	13.3	13.4	12.0	12.0	14.8	15.1
Technical, sales, and administrative support	30.8	31.1	19.7	20.1	44.2	44.4
Technicians and related support	3.1	3.3	2.9	3.0	3.3	3.5
Sales occupations	12.0	12.0	11.1	11.2	13.1	13.1
Administrative support, including clerical	15.7	15.8	5.7	5.9	27.8	27.8
Service occupations	13.3	13.4	9.6	9.8	17.7	17.7
Private household .....	.7	.7	.1	-	1.6	1.4
Protective service	1.7	1.7	2.6	2.6	.6	.5
Service, except private household and protective	10.8	11.0	7.0	7.1	15.6	15.8
Precision production, craft, and repair	11.8	11.6	19.6	19.4	2.2	2.2
Operators, fabricators, and laborers	15.4	15.1	20.7	20.6	8.9	8.5
Machine operators, assemblers, and inspectors	7.0	8.8	7.6	7.5	6.4	6.0
Transportation and material moving occupations	4.2	4.1	6.9	6.8	.8	.8
Handlers, equipment cleaners, helpers, and laborers	4.2	4.1	6.2	6.2	1.7	1.6
Farming, forestry, and fishing	2.9	2.9	4.4	4.4	1.1	1.0
White						
Total, 16 years and over (thousands)	101,584	102,067	56,352	56,432	45,232	45,654
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	27.0	27.1	27.1	26.9	26.9	27.2
Executive, administrative, and managerial	13.3	13.3	14.7	14.6	11.6	11.6
Professional specialty	13.7	13.8	12.4	12.3	15.3	15.6
Technical, sales, and administrative support	31.1	31.5	19.9	20.3	45.1	45.3
Technicians and related support	3.1	3.2	2.9	3.1	3.2	3.5
Sales occupations	12.5	12.6	11.7	11.8	13.6	13.6
Administrative support, including clerical	15.5	15.6	5.3	5.5	28.2	28.2
Service occupations	12.0	12.2	8.5	8.7	16.4	16.4
Private household .....	.6	.5	.1	-	1.3	1.2
Protective service	1.6	1.6	2.4	2.5	.5	.5
Service, except private household and protective	9.9	10.0	6.1	6.2	14.5	14.7
Precision production, craft, and repair	12.2	12.0	20.2	20.0	2.2	2.1
Operators, fabricators, and laborers	14.5	14.3	19.6	19.4	8.2	7.8
Machine operators, assemblers, and inspectors	6.6	6.5	7.3	7.2	5.8	5.5
Transportation and material moving occupations	4.0	3.9	6.6	6.4	.8	.8
Handlers, equipment cleaners, helpers, and laborers	3.9	3.9	5.8	5.8	1.6	1.5
Farming, forestry, and fishing	3.1	3.1	4.6	4.6	1.2	1.1
Black						
Total, 16 years and over (thousands)	11,953	11,966	5,928	5,915	6,025	6,051
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.6	16.0	13.0	13.3	18.1	18.6
Executive, administrative, and managerial	7.0	7.1	6.7	6.8	7.4	7.5
Professional specialty	8.5	8.9	6.3	6.5	10.8	11.2
Technical, sales, and administrative support	28.0	28.2	17.0	17.1	36.9	39.1
Technicians and related support	2.9	2.9	2.2	2.2	3.6	3.6
Sales occupations	7.6	7.6	5.8	5.8	9.4	9.4
Administrative support, including clerical	17.5	17.7	9.0	9.1	25.9	26.1
Service occupations	22.9	22.6	18.3	18.2	27.3	27.3
Private household	1.8	1.6	.1	.1	3.5	3.1
Protective service	2.7	2.8	4.6	4.4	.9	1.2
Service, except private household and protective	18.3	18.4	13.6	13.7	22.6	23.0
Precision production, craft, and repair	9.1	8.9	15.9	15.6	2.4	2.3
Operators, fabricators, and laborers	22.7	22.4	32.7	32.7	12.9	12.2
Machine operators, assemblers, and inspectors	10.1	9.7	10.6	10.3	9.6	9.1
Transportation and material moving occupations	6.0	6.3	10.9	11.6	1.1	1.0
Handlers, equipment cleaners, helpers, and laborers	6.7	6.4	11.2	10.8	2.3	2.1
Farming, forestry, and fishing	1.8	1.7	3.1	3.2	.4	.3

**HOUSEHOLD DATA
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22. Employed civilians by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	117,914	45.4	10.1	7.5
Managerial and professional specialty	30,657	45.8	6.2	3.6
Executive, administrative, and managerial	14,839	40.0	5.7	3.9
Officials and administrators, public administration	503	42.4	9.2	3.2
Administrators, protective service	56	19.1	9.1	1.0
Financial managers	492	44.3	4.1	2.9
Personnel and labor relations managers	122	55.1	6.7	3.2
Purchasing managers	110	31.9	4.8	3.5
Managers, marketing, advertising, and public relations	522	31.1	2.9	3.1
Administrators, education and related fields	554	54.4	9.5	3.8
Managers, medicine and health	175	66.5	7.5	2.9
Managers, properties and real estate	437	45.2	6.5	5.1
Management-related occupations	3,893	49.9	7.6	4.1
Accountants and auditors	1,438	50.8	7.4	3.8
Underwriters	94	67.6	8.1	5.2
Other financial officers	697	45.0	6.1	4.8
Management analysts	197	34.0	6.5	2.0
Personnel, training, and labor relations specialists	401	60.8	11.9	4.2
Buyers, wholesale and retail trade, except farm products	219	50.7	3.8	4.3
Construction inspectors	70	5.1	7.3	4.1
Inspectors and compliance officers, except construction	196	26.9	13.9	4.0
Professional specialty	15,818	51.2	6.7	3.4
Architects	142	18.4	.9	3.5
Engineers	1,862	8.0	3.6	2.8
Aerospace engineers	109	7.3	4.8	2.4
Chemical engineers	71	10.9	1.7	2.2
Civil engineers	234	5.0	4.0	3.2
Electrical and electronic engineers	581	8.7	3.8	3.3
Industrial engineers	204	11.9	4.4	3.2
Mechanical engineers	316	5.4	3.5	1.9
Mathematical and computer scientists	866	36.5	6.5	3.4
Computer systems analysts and scientists	605	34.5	7.0	3.3
Operations and systems researchers and analysts	212	41.5	5.2	4.2
Natural scientists	401	26.0	2.7	3.8
Chemists, except biochemists	125	27.0	4.6	5.9
Geologists and geodesists	53	14.3	.6	.4
Biological and life scientists	74	40.9	2.7	3.1
Health diagnosing occupations	871	17.8	3.0	3.7
Physicians	575	19.3	3.0	4.5
Dentists	162	9.5	4.9	3.5
Health assessment and treating occupations	2,320	86.2	7.4	2.8
Registered nurses	1,673	94.5	7.4	2.5
Pharmacists	171	37.2	4.1	4.1
Dietitians	83	95.0	20.1	3.5
Therapists	325	76.6	6.0	2.9
Inhalation therapists	62	60.1	11.7	2.8
Physical therapists	91	75.0	4.1	2.7
Speech therapists	63	88.1	2.8	3.3
Physicians' assistants	67	39.6	6.4	5.2
Teachers, college and university	765	37.7	4.5	2.5
Teachers, except college and university	3,993	73.7	8.7	3.5
Prekindergarten and kindergarten	456	98.4	10.7	5.7
Elementary school	1,506	85.2	9.7	3.2
Secondary school	1,209	53.1	7.1	3.3
Special education	271	84.8	11.8	2.2
Teachers, n.e.c.	552	61.0	6.5	3.2
Counselors, educational and vocational	216	61.9	16.3	4.1
Librarians, archivists, and curators	211	81.1	5.3	3.3
Librarians	192	83.3	5.5	3.3
Social scientists and urban planners	363	51.5	5.4	3.3
Economists	114	43.8	4.0	3.3
Psychologists	210	58.4	6.6	3.6
Social, recreation, and religious workers	1,085	50.4	15.2	4.6
Social workers	564	68.2	21.8	6.1
Recreation workers	100	70.9	14.7	6.1
Clergy	325	9.6	6.9	2.1
Religious workers, n.e.c.	96	62.1	4.8	2.9
Lawyers and judges	756	20.8	3.4	2.7

See footnotes at end of table.

**HOUSEHOLD DATA
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22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Lawyers	729	20.6	3.2	2.8
Writers, artists, entertainers, and athletes	1,941	47.4	4.5	4.0
Authors	84	59.9	2.3	.7
Technical writers	65	47.0	1.6	2.1
Designers	531	53.3	2.6	4.4
Musicians and composers	162	31.9	9.6	4.5
Actors and directors	97	36.5	5.9	1.9
Painters, sculptors, craft-artists, and artist printmakers	217	51.2	2.8	4.5
Photographers	123	27.8	2.9	5.5
Editors and reporters	280	52.0	3.8	2.9
Public relations specialists	162	58.7	7.7	2.8
Announcers	52	18.5	6.9	2.7
Athletes	74	26.4	9.7	4.3
Technical, sales, and administrative support	36,675	64.7	9.2	5.8
Technicians and related support	3,842	49.2	9.1	4.3
Health technologists and technicians	1,303	83.5	14.1	4.5
Clinical laboratory technologists and technicians	297	76.3	15.1	4.1
Dental hygienists	87	99.1	2.5	3.0
Health record technologists & technicians	69	94.0	15.4	8.1
Radiologic technicians	122	76.4	12.8	4.8
Licensed practical nurses	443	96.3	17.6	3.8
Engineering and related technologists and technicians	980	19.8	7.2	4.8
Electrical and electronic technicians	352	15.4	8.2	5.8
Drafting occupations	282	18.9	6.4	5.1
Surveying and mapping technicians	75	6.1	3.4	3.3
Science technicians	240	31.9	7.5	7.2
Biological technicians	68	40.7	4.6	9.0
Chemical technicians	84	28.1	10.8	7.1
Technicians, except health, engineering, and science	1,320	40.2	5.7	3.1
Airplane pilots and navigators	114	5.1	.6	3.3
Computer programmers	594	36.0	5.8	2.5
Legal assistants	229	78.8	6.1	3.7
Sales occupations	14,191	49.2	6.4	5.3
Supervisors and proprietors	3,812	34.8	4.5	4.4
Sales representatives, finance and business services	2,431	42.9	4.4	3.6
Insurance sales	604	32.7	5.2	3.5
Real estate sales	752	51.1	3.0	3.6
Securities and financial services sales	300	23.4	3.6	3.2
Advertising and related sales	154	50.9	4.4	2.8
Sales occupations, other business services	620	50.3	5.6	4.0
Sales representatives, commodities, except retail	1,637	22.0	2.6	3.3
Sales workers, retail and personal services	6,239	67.4	9.5	7.0
Sales workers, motor vehicles and boats	306	9.0	4.0	4.3
Sales workers, apparel	455	82.1	8.4	8.4
Sales workers, shoes	104	60.2	13.5	9.3
Sales workers, furniture and home furnishings	152	48.6	4.4	6.1
Sales workers, radio, television, hi-fi, and appliances	199	28.2	5.7	7.8
Sales workers, hardware and building supplies	204	21.0	4.1	5.3
Sales workers, parts	156	8.8	4.4	4.5
Sales workers, other commodities	1,498	72.5	6.8	5.7
Sales counter clerks	197	69.4	9.1	5.7
Cashiers	2,492	81.4	13.5	8.4
Street and door-to-door sales workers	363	72.5	8.1	6.2
News vendors	115	39.8	8.3	5.8
Sales-related occupations	72	63.7	2.5	3.4
Administrative support, including clerical	18,641	79.8	11.4	6.5
Supervisors	771	58.3	11.8	6.5
General office	475	66.4	12.0	6.7
Financial records processing	89	74.2	5.8	5.4
Supervisors, distribution, scheduling, and adjusting clerks	165	31.5	14.2	7.0
Computer equipment operators	815	65.7	13.1	6.9
Computer operators	808	65.7	12.9	6.9
Secretaries, stenographers, and typists	4,655	98.3	8.6	5.4
Secretaries	3,956	99.0	7.6	5.2
Typists	640	95.5	15.1	7.3
Information clerks	1,524	88.3	9.5	7.3
Interviewers	204	81.2	11.5	7.9
Hotel clerks	92	70.6	9.5	7.2

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Transportation ticket and reservation agents	121	60.2	12.2	8.7
Receptionists	851	97.0	8.1	6.7
Records processing occupations, except financial	917	81.3	14.1	7.2
Order clerks	205	77.9	15.1	6.5
Personnel clerks, except payroll and timekeeping	79	88.6	21.7	7.3
Library clerks	166	76.2	9.1	5.0
File clerks	299	83.8	14.0	9.0
Records clerks	141	81.4	14.7	7.5
Financial records processing	2,418	91.6	6.2	5.1
Bookkeepers, accounting, and auditing clerks	1,912	92.2	5.2	5.0
Payroll and timekeeping clerks	195	91.0	11.5	3.6
Billing clerks	184	92.1	8.7	6.3
Cost and rate clerks	77	80.6	8.4	5.6
Duplicating, mail and other office machine operators	72	62.4	19.3	6.1
Communications equipment operators	222	87.2	19.9	7.1
Telephone operators	208	89.0	19.7	7.2
Mail and message distributing occupations	974	35.9	20.0	6.3
Postal clerks, except mail carriers	296	45.2	25.1	4.7
Mail carriers, postal service	339	24.9	14.4	6.1
Mail clerks, except postal service	190	47.0	23.8	7.7
Messengers	150	28.2	17.9	7.9
Material recording, scheduling, and distributing clerks	1,838	41.9	12.6	8.0
Dispatchers	224	54.8	9.2	4.4
Production coordinators	199	49.3	7.4	4.5
Traffic, shipping, and receiving clerks	546	26.8	15.3	11.7
Stock and inventory clerks	598	43.2	13.3	8.0
Meter readers	41	15.2	9.9	3.4
Weighers, measurers, and checkers	77	45.5	14.6	7.6
Expeditors	127	66.7	11.1	4.9
Adjusters and investigators	1,129	75.1	12.9	5.6
Insurance adjusters, examiners, and investigators	353	72.2	12.1	3.9
Investigators and adjusters, except insurance	537	76.6	13.1	6.7
Eligibility clerks, social welfare	88	90.1	14.7	4.0
Bill and account collectors	151	67.5	13.1	6.7
Miscellaneous administrative support	3,307	84.6	14.0	7.7
General office clerks	772	81.8	13.1	7.0
Bank tellers	468	90.4	9.9	7.0
Data entry keyers	488	87.2	19.5	8.0
Statistical clerks	88	72.3	12.9	6.7
Teachers' aides	493	94.5	14.1	11.8
Service occupations	15,759	60.1	17.3	11.2
Private household	782	96.3	24.7	19.7
Child care workers	314	97.9	9.8	13.3
Cleaners and servants	407	95.5	35.6	23.8
Protective service	1,988	14.6	16.6	5.9
Supervisors, protective service	171	8.0	13.6	4.1
Supervisors, police and detectives	86	8.6	12.9	2.4
Firefighting and fire prevention	220	2.4	11.0	4.4
Firefighting occupations	205	1.2	11.5	4.5
Police and detectives	829	13.8	16.0	5.3
Police and detectives, public service	473	12.1	13.5	5.5
Sheriffs, bailiffs, and other law enforcement officers	114	12.8	11.8	5.7
Correctional institution officers	242	17.7	22.8	4.7
Guards	768	20.5	19.4	7.4
Guards and police, except public service	669	14.8	21.2	7.8
Service occupations, except private household and protective service	12,989	64.9	17.0	11.5
Food preparation and service occupations	5,359	59.5	12.4	12.5
Supervisors	344	67.1	10.0	9.2
Bartenders	307	55.6	3.6	6.7
Waiters and waitresses	1,392	80.8	4.7	7.6
Cooks, except short order	1,736	47.7	18.3	14.6
Short-order cooks	77	32.7	25.5	10.5
Food counter, fountain, and related occupations	325	72.7	11.5	7.3
Kitchen workers, food preparation	128	70.7	12.8	12.5
Waiters' and waitresses' assistants	360	39.1	16.0	21.4
Miscellaneous food preparation	689	50.0	15.4	19.4
Health service occupations	2,087	90.2	26.3	6.4
Dental assistants	187	98.7	5.6	7.4
Health aides, except nursing	448	84.8	21.0	5.6

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nursing aides, orderlies, and attendants	1,452	90.8	30.7	6.5
Cleaning and building service occupations	3,118	44.0	22.4	16.7
Supervisors	147	37.6	24.5	10.4
Maids and housemen	727	82.0	24.8	21.7
Janitors and cleaners	2,191	32.8	21.8	15.7
Personal service occupations	2,425	81.6	12.0	7.3
Barbers	93	18.7	17.4	9.9
Hairdressers and cosmetologists	734	89.8	9.2	7.1
Attendants, amusement and recreation facilities	145	40.2	9.1	5.7
Public transportation attendants	100	83.2	11.2	6.0
Welfare service aides	95	92.1	24.1	13.7
Child care workers	899	97.0	12.1	6.4
Precision production, craft, and repair	13,641	8.5	7.8	8.5
Mechanics and repairers	4,448	3.6	8.1	7.0
Supervisors	251	7.5	5.8	3.8
Mechanics and repairers, except supervisors	4,198	3.3	8.3	7.2
Vehicle and mobile equipment mechanics and repairers	1,768	.9	7.5	8.4
Automobile mechanics	862	.8	8.7	9.4
Bus, truck, and stationery engine mechanics	315	.4	6.6	6.0
Aircraft engine mechanics	110	2.8	9.8	8.4
Small engine repairers	67	.2	4.5	5.3
Automobile body and related repairers	201	.7	7.1	11.1
Heavy equipment mechanics	155	.7	4.8	5.2
Industrial machinery repairers	496	3.0	8.3	6.1
Electrical and electronic equipment repairers	711	8.6	10.6	6.0
Electronic repairers, communications, and industrial equipment	182	7.4	12.0	7.9
Data processing equipment repairers	157	11.4	10.6	5.6
Telephone line installers and repairers	62	6.9	8.6	8.1
Telephone installers and repairers	193	11.3	9.7	3.8
Heating, air conditioning, and refrigeration mechanics	267	.5	6.4	4.9
Miscellaneous mechanics and repairers	932	4.8	8.3	7.0
Office machine repairers	76	5.4	6.7	5.6
Millwrights	94	2.8	4.6	2.3
Construction trades	5,147	1.9	6.9	8.9
Supervisors	657	1.5	4.4	4.6
Construction trades, except supervisors	4,489	1.9	7.3	9.5
Brickmasons and stonemasons	193	.2	14.4	10.7
Tile setters, hard and soft	68	2.0	4.9	14.3
Carpet installers	109	2.1	4.2	11.2
Carpenters	1,360	1.3	4.8	8.7
Drywall installers	153	1.0	5.1	15.5
Electricians	698	1.7	6.2	5.2
Electrical power installers and repairers	121	1.7	8.2	4.2
Painters, construction and maintenance	549	5.6	9.5	13.3
Plumbers, pipefitters, and steamfitters	455	.9	6.6	6.5
Concrete and terrazzo finishers	71	.8	23.1	23.7
Insulation workers	54	1.5	10.9	19.4
Roofers	212	.3	8.5	13.6
Structural metal workers	81	.2	3.7	8.0
Extractive occupations	149	1.9	6.9	6.9
Precision production occupations	3,896	23.1	8.6	9.8
Supervisors	1,308	16.2	8.5	8.0
Precision metalworking	908	6.6	6.1	7.4
Tool and die makers	152	1.6	5.1	2.3
Machinists	488	3.9	6.1	7.9
Precious stones and metals workers	47	37.9	1.0	16.4
Sheet-metal workers	122	6.0	6.7	8.4
Precision woodworking occupations	96	13.6	3.3	8.4
Cabinet makers and bench carpenters	56	3.9	1.5	6.3
Precision textile, apparel, and furnishings machine workers	249	60.8	8.7	13.8
Dressmakers	112	96.4	9.9	11.8
Tailors	49	43.0	6.8	21.4
Upholsterers	66	25.1	8.3	12.6
Precision workers, assorted materials	526	54.3	8.9	12.8
Optical goods workers	62	57.5	5.3	6.9
Dental laboratory and medical appliance technicians	62	36.4	7.6	7.2
Electrical and electronic equipment assemblers	293	66.7	10.5	14.8
Precision food production occupations	419	32.7	12.9	19.0
Butchers and meat cutters	259	22.1	13.9	21.8

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Bakers	117	44.3	12.0	15.9
Precision inspectors, testers, and related workers	121	25.2	10.7	9.1
Inspectors, testers, and graders	112	24.9	10.3	9.2
Plant and system operators	270	4.2	11.4	4.1
Water and sewage treatment plant operators	61	2.2	9.7	3.3
Stationary engineers	117	3.6	11.8	3.8
Operators, fabricators, and laborers	17,775	25.5	15.0	12.2
Machine operators, assemblers, and inspectors	8,071	40.0	14.4	13.9
Machine operators and tenders, except precision	5,286	41.0	15.5	14.9
Metalworking and plastic working machine operators	439	18.0	8.9	10.9
Lathe and turning machine operators	57	8.5	5.5	12.2
Punching and stamping press machine operators	111	29.2	13.2	13.6
Grinding, abrading, buffing, and polishing machine operators	129	17.2	9.1	11.7
Metal and plastic processing machine operators	170	21.4	12.7	12.8
Molding and casting machine operators	101	29.5	13.5	10.3
Woodworking machine operators	168	13.2	13.1	10.9
Sawing machine operators	110	12.6	13.4	9.0
Printing machine operators	459	26.1	6.3	9.6
Printing machine operators	309	14.4	7.5	10.4
Typesetters and compositors	65	68.0	4.8	8.8
Textile, apparel, and furnishings machine operators	1,287	78.3	20.1	19.9
Winding and twisting machine operators	81	72.6	28.7	4.1
Textile sewing machine operators	710	89.1	16.4	23.1
Pressing machine operators	131	69.0	26.8	27.9
Laundering and dry cleaning machine operators	202	66.5	21.5	18.2
Machine operators, assorted materials	2,740	32.6	16.3	14.5
Packaging and filling machine operators	454	60.5	19.8	23.7
Mixing and blending machine operators	113	11.8	16.9	16.4
Separating, filtering, and clarifying machine operators	62	10.6	12.2	3.3
Painting and paint spraying machine operators	193	13.1	11.2	14.5
Furnace, kiln, and oven operators, except food	104	5.0	15.3	5.3
Crushing and grinding machine operators	48	31.3	16.1	10.6
Slicing and cutting machine operators	197	24.9	13.5	16.9
Photographic process machine operators	92	50.9	6.4	6.3
Fabricators, assemblers, and hand working occupations	1,951	32.5	11.8	12.7
Welders and cutters	593	4.0	8.8	12.2
Assemblers	1,130	43.5	14.3	12.8
Production inspectors, testers, samplers, and weighers	834	51.4	13.5	10.4
Production inspectors, checkers, and examiners	667	52.2	12.8	8.2
Production testers	54	36.0	14.4	2.9
Graders and sorters, except agricultural	106	55.1	16.3	28.6
Transportation and material moving occupations	4,849	9.0	15.4	8.5
Motor vehicle operators	3,589	10.8	15.4	8.6
Supervisors	76	18.6	9.4	7.6
Truck drivers, heavy	1,866	2.1	14.2	7.5
Truck drivers, light	741	8.5	11.8	10.6
Drivers-sales workers	200	9.3	9.3	6.5
Bus drivers	443	51.6	23.4	6.9
Taxi-cab drivers and chauffeurs	208	9.5	25.3	15.0
Transportation occupations, except motor vehicles	171	3.0	10.8	5.1
Rail transportation occupations	119	3.6	12.6	4.6
Material moving equipment operators	1,089	3.9	16.4	8.9
Operating engineers	224	.8	10.9	8.5
Crane and tower operators	92	1.0	16.3	5.0
Excavating and loading machine operators	107	.6	9.1	6.3
Grader, dozer, and scraper operators	101	1.4	6.4	8.6
Industrial truck and tractor equipment operators	446	5.7	23.5	10.5
Handlers, equipment cleaners, helpers, and laborers	4,855	17.7	15.7	12.9
Helpers, construction and extractive occupations	137	5.7	15.8	17.8
Helpers, construction trades	126	5.7	16.9	18.9
Construction laborers	774	3.2	13.2	16.3
Production helpers	81	18.5	13.7	23.3
Freight, stock, and material handlers	1,716	19.1	16.4	10.1
Stock handlers and baggers	916	25.0	12.6	9.9
Machine feeders and offbearers	87	37.0	20.7	8.7
Garage and service station related occupations	220	4.7	11.3	7.1

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Vehicle washers and equipment cleaners	240	13.5	23.0	19.8
Hand packers and packagers	305	62.0	15.1	18.0
Laborers, except construction	1,340	18.8	16.0	12.0
Farming, forestry, and fishing	3,408	16.0	6.1	14.2
Farm operators and managers	1,238	15.7	.9	1.7
Farmers	1,085	15.5	.8	1.4
Farm managers	152	17.6	1.4	4.1
Other agricultural and related occupations	1,978	17.1	9.1	22.8
Farm occupations, except managerial	930	21.7	7.8	27.1
Farm workers	851	21.0	8.2	26.9
Related agricultural occupations	1,048	13.1	10.2	19.0
Supervisors	67	7.1	2.5	11.6
Groundskeepers and gardeners, except farm	852	5.7	11.7	20.1
Animal caretakers, except farm	107	63.8	3.9	8.1
Forestry and logging occupations	129	5.7	10.1	5.4
Timber cutting and logging	98	1.7	11.4	1.4
Fishers, hunters, and trappers	63	4.7	7.0	6.0

NOTE: N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified. 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.

23. Employed civilians by age, sex, and class of worker

(In thousands)

Age and sex	1990								
	Nonagricultural industries						Agriculture		
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	105,715	1,014	17,740	86,961	8,760	252	1,679	1,400	107
16 to 19 years	5,932	154	333	5,445	66	14	201	26	22
16 to 17 years	2,180	95	97	1,988	24	6	93	12	13
18 to 19 years	3,752	59	236	3,457	41	8	109	14	9
20 to 24 years	11,978	104	1,102	10,772	282	21	279	54	7
25 to 34 years	31,035	165	4,317	26,553	1,945	43	517	277	14
35 to 44 years	27,189	161	5,638	21,390	2,638	63	316	318	19
45 to 54 years	17,347	150	3,841	13,356	1,919	58	179	245	17
55 to 64 years	9,706	161	2,069	7,476	1,311	34	134	263	16
55 to 59 years	5,852	81	1,290	4,481	740	19	74	131	9
60 to 64 years	3,854	80	779	2,995	571	15	60	132	6
65 years and over	2,528	120	440	1,968	600	19	52	217	11
Men, 16 years and over	56,263	145	8,212	47,906	5,618	46	1,299	1,169	39
16 to 19 years	2,984	37	158	2,788	40	9	163	24	18
16 to 17 years	1,091	25	50	1,017	14	4	74	12	10
18 to 19 years	1,892	12	108	1,771	25	5	88	12	8
20 to 24 years	6,168	19	483	5,666	161	12	230	48	6
25 to 34 years	16,886	25	2,042	14,818	1,202	9	394	237	4
35 to 44 years	14,425	19	2,535	11,871	1,659	5	231	255	1
45 to 54 years	9,193	16	1,783	7,394	1,238	2	138	192	1
55 to 64 years	5,303	15	1,003	4,285	906	2	100	216	3
55 to 59 years	3,187	6	615	2,566	508	1	53	106	1
60 to 64 years	2,116	9	388	1,719	398	1	46	110	3
65 years and over	1,306	13	208	1,085	413	7	44	197	5
Women, 16 years and over	49,451	869	9,528	39,054	3,142	206	381	231	68
16 to 19 years	2,948	116	175	2,657	26	5	39	2	4
16 to 17 years	1,089	70	48	971	10	2	18	-	2
18 to 19 years	1,860	47	128	1,685	16	3	20	2	2
20 to 24 years	5,810	84	620	5,106	121	9	49	6	1
25 to 34 years	14,149	140	2,274	11,735	743	34	123	40	10
35 to 44 years	12,764	142	3,103	9,519	979	58	85	63	18
45 to 54 years	8,154	134	2,058	5,962	681	56	41	53	16
55 to 64 years	4,403	145	1,066	3,192	405	32	34	47	13
55 to 59 years	2,665	75	676	1,915	232	18	21	25	9
60 to 64 years	1,738	71	391	1,277	173	14	14	22	4
65 years and over	1,222	107	232	883	187	12	9	20	6

**HOUSEHOLD DATA
ANNUAL AVERAGES**

24. Employed civilians in nonagricultural industries by sex and class of worker

(In thousands)

Industry and sex	1990					
	Total employed	Wage and salary workers			Self-employed workers	Unpaid family workers
		Total	Government	Private industries		
TOTAL						
Mining	730	704	1	703	24	2
Construction	7,696	6,199	534	5,665	1,463	34
Manufacturing	21,184	20,737	120	20,616	429	18
Durable goods	12,557	12,288	95	12,194	257	13
Nondurable goods	8,626	8,449	26	8,423	173	5
Transportation and public utilities	8,136	7,828	1,577	6,251	302	6
Wholesale and retail trade	24,269	22,313	101	22,211	1,859	98
Wholesale trade	4,651	4,305	6	4,299	331	15
Retail trade	19,618	18,008	95	17,912	1,527	83
Finance, insurance, and real estate	8,021	7,367	206	7,162	635	18
Services	39,084	34,959	9,593	25,366	4,048	78
Private households	1,023	1,014	-	1,014	9	
Other service industries	38,061	33,945	9,593	24,352	4,039	78
Business and repair	7,409	5,948	79	5,869	1,427	33
Personal, except private households	3,644	2,899	13	2,687	934	11
Entertainment and recreation	1,503	1,293	202	1,092	207	3
Professional	25,335	23,886	9,238	14,648	1,421	29
Hospitals	4,690	4,683	951	3,732	6	
Health services, except hospitals	4,757	4,344	445	3,899	397	16
Educational	9,076	8,984	7,110	1,874	92	
Social services	2,234	1,987	597	1,390	245	2
Other	4,578	3,888	135	3,753	680	10
Forestry and fisheries	169	118	61	57	50	1
Public administration	5,608	5,608	5,608	-	-	
Men						
Mining	617	594	1	593	23	
Construction	7,032	5,633	481	5,151	1,391	8
Manufacturing	14,315	14,011	84	13,927	302	2
Durable goods	9,227	9,017	70	8,947	208	2
Nondurable goods	5,089	4,994	14	4,981	94	
Transportation and public utilities	5,819	5,553	1,155	4,398	265	1
Wholesale and retail trade	12,773	11,655	35	11,619	1,098	20
Wholesale trade	3,329	3,054	4	3,051	273	2
Retail trade	9,444	8,600	31	8,569	825	19
Finance, insurance, and real estate	3,323	2,896	106	2,790	426	1
Services	14,830	12,704	3,131	9,573	2,113	13
Private households	150	145	-	145	5	
Other service industries	14,680	12,559	3,131	9,428	2,108	13
Business and repair	4,496	3,579	47	3,533	909	8
Personal, except private households	1,215	991	4	986	222	3
Entertainment and recreation	893	746	122	625	146	
Professional	7,937	7,150	2,916	4,234	786	2
Hospitals	1,056	1,053	292	761	3	-
Health services, except hospitals	1,049	770	97	673	279	-
Educational	3,031	3,003	2,298	705	27	-
Social services	450	434	149	285	18	1
Other	2,351	1,890	80	1,810	460	-
Forestry and fisheries	139	93	43	50	46	-
Public administration	3,218	3,218	3,218	-	-	-
Women						
Mining	113	110		110	1	1
Construction	664	566	52	514	72	26
Manufacturing	6,868	6,725	36	6,689	127	16
Durable goods	3,331	3,271	24	3,247	49	11
Nondurable goods	3,538	3,454	12	3,442	78	5
Transportation and public utilities	2,317	2,275	422	1,853	37	4
Wholesale and retail trade	11,496	10,658	66	10,592	760	78
Wholesale trade	1,322	1,251	2	1,249	58	13
Retail trade	10,174	9,407	64	9,343	702	65
Finance, insurance, and real estate	4,697	4,471	99	4,372	209	17
Services	24,254	22,255	6,462	15,793	1,934	64
Private households	873	869	-	869	4	
Other service industries	23,381	21,386	6,462	14,924	1,930	64
Business and repair	2,914	2,369	32	2,337	519	26
Personal, except private households	2,429	1,709	8	1,700	712	8
Entertainment and recreation	610	547	80	467	61	2
Professional	17,398	16,736	6,323	10,414	635	27
Hospitals	3,634	3,630	659	2,971	3	
Health services, except hospitals	3,708	3,575	348	3,226	118	16
Educational	6,046	5,981	4,812	1,169	65	
Social services	1,784	1,553	448	1,105	229	2
Other	2,227	1,998	55	1,943	220	10
Forestry and fisheries	30	25	19	6	4	1
Public administration	2,390	2,390	2,390	-	-	-

25. Employed civilians by industry, sex, and occupation

(In thousands)

Industry and sex	1990												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
TOTAL													
Agriculture	3,186	95	86	30	23	108	-	16	40	12	48	20	2,707
Mining	730	112	63	32	9	73	-	9	244	26	123	36	2
Construction	7,696	1,042	133	63	76	427	-	34	4,401	112	523	861	23
Manufacturing	21,184	2,544	1,791	759	781	2,355	-	372	3,937	6,594	798	1,152	101
Durable goods	12,557	1,530	1,221	529	327	1,360	-	196	2,707	3,639	414	544	91
Nondurable goods	8,626	1,014	570	231	454	995	-	176	1,230	2,955	384	608	11
Transportation and public utilities	8,136	920	458	305	340	2,153	-	290	1,259	122	1,805	470	14
Wholesale and retail trade	24,269	2,078	467	138	10,067	2,403	-	4,476	1,493	327	960	1,825	37
Wholesale trade	4,651	528	88	49	1,869	783	-	39	322	134	459	372	10
Retail trade	19,618	1,550	379	88	8,198	1,620	-	4,438	1,170	193	501	1,453	26
Finance, insurance, and real estate	8,021	2,089	224	154	1,911	3,066	-	293	154	19	16	25	70
Services	39,084	4,757	11,812	2,112	958	6,518	782	8,111	1,880	815	516	421	402
Private households	1,023	4	13	4	1	9	782	96	17	2	7	18	70
Other service industries	38,061	4,754	11,799	2,108	957	6,508	-	8,015	1,863	814	509	403	332
Professional services	25,335	2,652	10,459	1,709	160	4,738	-	4,523	399	228	277	100	91
Public administration	5,608	1,201	785	250	26	1,539	-	1,376	234	43	59	44	52
Men													
Agriculture	2,507	69	55	13	13	9	-	8	39	9	46	15	2,231
Mining	617	84	53	25	8	15	-	8	240	24	122	35	2
Construction	7,032	904	121	56	62	51	-	25	4,330	109	519	832	22
Manufacturing	14,315	1,874	1,409	582	518	712	-	290	3,311	3,938	753	831	99
Durable goods	9,227	1,160	1,043	435	249	451	-	156	2,290	2,538	393	423	89
Nondurable goods	5,089	714	366	147	269	260	-	134	1,020	1,400	360	408	9
Transportation and public utilities	5,819	627	354	239	137	894	-	154	1,192	106	1,665	437	13
Wholesale and retail trade	12,773	1,175	235	72	4,920	532	-	2,011	1,292	178	902	1,433	23
Wholesale trade	3,329	341	65	34	1,517	191	-	29	304	83	446	310	7
Retail trade	9,444	834	170	38	3,403	341	-	1,982	988	94	456	1,122	16
Finance, insurance, and real estate	3,323	1,046	119	75	1,153	465	-	201	146	14	15	24	65
Services	14,830	2,415	4,893	741	388	764	29	2,410	1,709	435	339	347	361
Private households	150	2	3	1	1	1	29	11	14	1	6	18	65
Other service industries	14,680	2,414	4,890	740	387	763	-	2,399	1,695	434	333	329	296
Professional services	7,937	1,116	4,109	478	40	417	-	1,070	341	99	119	72	77
Public administration	3,218	702	482	151	10	328	-	1,152	223	29	54	40	48
Women													
Agriculture	679	26	30	17	11	99	-	8	1	4	3	5	476
Mining	113	28	10	7	1	58	-	1	4	1	2	1	-
Construction	664	138	11	8	14	376	-	9	70	4	5	29	1
Manufacturing	6,868	671	382	177	263	1,643	-	82	626	2,655	45	321	3
Durable goods	3,331	370	178	94	78	908	-	40	416	1,101	21	121	1
Nondurable goods	3,538	300	204	83	185	735	-	42	210	1,554	24	200	1
Transportation and public utilities	2,317	294	104	66	203	1,258	-	135	67	16	139	33	1
Wholesale and retail trade	11,496	903	232	65	5,147	1,871	-	2,465	200	149	58	392	14
Wholesale trade	1,322	187	22	15	352	591	-	9	18	50	13	61	3
Retail trade	10,174	716	210	50	4,795	1,279	-	2,456	182	99	45	331	11
Finance, insurance, and real estate	4,697	1,043	105	79	758	2,600	-	91	8	5	2	1	4
Services	24,254	2,342	6,919	1,370	570	5,754	753	5,702	171	381	177	74	41
Private households	873	2	10	3	1	8	753	85	3	1	1	-	5
Other service industries	23,381	2,340	6,909	1,367	569	5,746	-	5,617	168	380	176	73	36
Professional services	17,398	1,535	6,350	1,231	120	4,321	-	3,455	58	129	158	28	14
Public administration	2,390	499	302	99	16	1,211	-	224	11	13	6	4	4

¹ Includes protective service, not shown separately.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

26. Employed civilians by industry, race, and occupation

(In thousands)

Industry and race	1990												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
WHITE													
Agriculture	2,974	89	81	28	23	102	-	15	36	9	42	17	2,531
Mining	682	110	59	29	9	68	-	7	227	22	117	33	2
Construction	7,047	991	117	57	73	401	-	29	4,058	102	471	728	19
Manufacturing	18,338	2,401	1,632	687	742	2,103	-	302	3,475	5,381	636	913	86
Durable goods	11,060	1,452	1,101	468	317	1,228	-	167	2,418	3,046	329	456	77
Nondurable goods	7,278	949	531	199	425	875	-	135	1,057	2,335	307	457	8
Transportation and public utilities	6,772	839	413	273	308	1,712	-	214	1,095	105	1,453	348	12
Wholesale and retail trade	21,400	1,873	431	121	9,054	2,157	-	3,748	1,362	278	818	1,524	35
Wholesale trade	4,233	495	78	42	1,772	709	-	30	290	110	389	308	10
Retail trade	17,166	1,377	352	79	7,282	1,448	-	3,718	1,072	168	430	1,216	25
Finance, insurance, and real estate	7,059	1,896	199	135	1,781	2,591	-	225	124	16	12	20	59
Services	33,237	4,315	10,516	1,787	847	5,632	561	6,182	1,649	650	412	343	342
Private households	749	3	10	3	2	8	561	68	14	1	6	15	58
Other service industries	32,488	4,312	10,506	1,784	845	5,624	-	6,114	1,635	649	406	328	284
Professional services	21,584	2,391	9,299	1,438	141	4,080	-	3,331	338	184	221	85	75
Public administration	4,579	1,024	652	210	21	1,203	-	1,130	196	34	38	29	42
BLACK													
Agriculture	140	1	-	-	-	2	-	2	2	2	5	3	121
Mining	38	2	2	3	-	4	-	2	14	2	6	3	-
Construction	498	30	6	4	3	16	-	4	264	8	44	115	3
Manufacturing	2,141	80	62	48	26	196	-	64	335	960	146	209	14
Durable goods	1,079	44	42	26	6	100	-	26	198	468	79	77	12
Nondurable goods	1,062	36	20	22	20	96	-	38	137	492	68	132	2
Transportation and public utilities	1,141	61	28	23	26	370	-	62	138	14	313	104	2
Wholesale and retail trade	1,997	114	20	10	692	183	-	484	88	35	121	249	2
Wholesale trade	280	16	5	4	49	47	-	7	20	16	60	55	1
Retail trade	1,716	98	15	6	643	135	-	477	69	18	61	194	1
Finance, insurance, and real estate	706	127	16	11	79	373	-	57	25	3	3	5	8
Services	4,459	296	826	221	81	697	193	1,640	168	131	93	64	49
Private households	241	1	3	1	-	-	193	26	2	1	1	3	11
Other service industries	4,218	296	823	220	81	696	-	1,614	166	130	92	61	38
Professional services	-	190	747	190	14	529	-	1,062	48	41	52	14	15
Public administration	646	142	100	29	4	276	-	221	31	7	16	13	7

¹ Includes protective service, not shown separately.

27. Employed civilians in nonagricultural industries by sex, age, and race

(In thousands)

Sex, age, and race	1990									
	Mining	Construction	Manufacturing			Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Services ¹	Public administration
			Total	Durable goods	Non-durable goods					
TOTAL										
Total, 16 years and over	730	7,696	21,184	12,557	8,626	8,136	24,269	8,021	38,061	5,608
16 to 19 years	11	264	488	237	251	121	3,276	158	1,472	66
20 years and over	719	7,431	20,696	12,320	8,376	8,015	20,993	7,863	36,589	5,542
20 to 24 years	44	858	1,963	1,093	870	647	3,720	871	3,719	354
25 years and over	675	6,574	18,733	11,226	7,506	7,368	17,273	6,992	32,869	5,188
25 to 54 years	593	5,761	16,174	9,725	6,449	6,493	14,559	5,953	27,757	4,467
55 years and over	82	813	2,559	1,501	1,057	875	2,714	1,039	5,112	721
Men, 16 years and over	617	7,032	14,315	9,227	5,089	5,819	12,773	3,323	14,680	3,218
16 to 19 years	10	244	328	172	156	80	1,631	51	622	28
20 years and over	607	6,787	13,988	9,054	4,933	5,740	11,142	3,273	14,058	3,190
20 to 24 years	36	796	1,279	780	499	420	1,902	257	1,452	179
25 years and over	571	5,991	12,709	8,275	4,433	5,320	9,240	3,016	12,606	3,011
25 to 54 years	502	5,247	10,926	7,123	3,803	4,634	7,819	2,438	10,395	2,594
55 years and over	69	744	1,783	1,152	630	686	1,421	578	2,211	417
Women, 16 years and over	113	664	6,868	3,331	3,538	2,317	11,496	4,697	23,381	2,390
16 to 19 years	1	20	160	65	95	41	1,645	107	850	39
20 years and over	112	644	6,708	3,265	3,443	2,275	9,851	4,590	22,531	2,352
20 to 24 years	8	61	684	314	370	227	1,818	614	2,268	175
25 years and over	104	583	6,024	2,952	3,072	2,048	8,034	3,976	20,264	2,176
25 to 54 years	91	514	5,248	2,603	2,645	1,859	6,741	3,515	17,362	1,872
55 years and over	13	69	776	349	427	189	1,293	461	2,902	304
White										
Men, 16 years and over	578	6,423	12,556	8,190	4,366	4,881	11,228	2,964	12,626	2,727
16 to 19 years	10	231	294	158	135	66	1,429	41	532	24
20 years and over	568	6,192	12,262	8,031	4,231	4,815	9,799	2,923	12,094	2,703
20 to 24 years	33	753	1,096	685	411	349	1,645	216	1,211	142
25 years and over	535	5,440	11,166	7,347	3,820	4,466	8,154	2,707	10,883	2,561
25 to 54 years	469	4,775	9,550	6,301	3,249	3,881	6,852	2,173	8,912	2,198
55 years and over	66	665	1,616	1,046	571	585	1,302	534	1,971	363
Women, 16 years and over	104	624	5,782	2,870	2,912	1,891	10,172	4,095	19,862	1,851
16 to 19 years	1	19	142	61	82	36	1,439	96	743	32
20 years and over	103	606	5,640	2,809	2,831	1,855	8,732	3,999	19,119	1,820
20 to 24 years	7	59	576	266	309	190	1,578	525	1,953	124
25 years and over	96	547	5,064	2,543	2,521	1,666	7,155	3,473	17,165	1,696
25 to 54 years	84	481	4,363	2,225	2,138	1,498	5,949	3,034	14,676	1,441
55 years and over	12	66	701	318	383	168	1,206	439	2,489	255
Black										
Men, 16 years and over	30	472	1,334	753	581	783	1,066	252	1,437	396
16 to 19 years	-	9	27	11	17	11	159	8	68	3
20 years and over	30	463	1,306	742	564	772	907	244	1,369	393
20 to 24 years	2	33	139	68	71	59	195	30	174	32
25 years and over	27	430	1,168	674	494	714	712	214	1,196	360
25 to 54 years	25	363	1,030	582	448	630	635	180	1,016	323
55 years and over	2	67	138	92	46	84	77	34	180	37
Women, 16 years and over	8	26	808	326	481	357	931	455	2,781	450
16 to 19 years	-	1	14	3	11	4	158	9	82	5
20 years and over	6	25	794	324	470	353	772	445	2,699	445
20 to 24 years	1	1	81	30	50	32	183	70	242	46
25 years and over	7	23	713	293	420	321	589	375	2,456	399
25 to 54 years	6	22	661	272	389	306	543	361	2,109	361
55 years and over	1	1	52	21	31	15	46	14	347	38

¹ Excludes private households.

**HOUSEHOLD DATA
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28. Employed civilians by detailed industry, sex, race, and Hispanic origin

(Numbers in thousands)

Industry	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	117,914	45.4	10.1	7.5
Agriculture	3,186	21.3	4.4	14.2
Agricultural production, crops	985	18.6	5.4	19.5
Agricultural production, livestock	1,218	21.1	2.9	5.3
Agricultural services, except horticultural	329	53.5	2.8	15.4
Horticultural services	655	9.7	6.6	22.4
Mining	730	15.5	5.2	5.5
Metal mining	69	13.8	.5	6.4
Coal mining	160	5.0	4.2	1.4
Crude petroleum and natural gas extraction	385	21.9	5.8	6.8
Nonmetallic mining and quarrying, except fuel	116	9.3	7.4	6.0
Construction	7,696	8.6	6.5	8.5
Manufacturing	21,184	32.4	10.1	8.8
Durable goods	12,557	26.5	8.6	7.6
Lumber and wood products, except furniture	780	13.1	14.6	6.1
Logging	155	4.2	18.6	.5
Sawmills, planing mills, and millwork	414	14.0	14.8	4.9
Wood buildings and mobile homes	63	15.0	7.4	4.9
Miscellaneous wood products	148	19.1	13.0	15.6
Furniture and fixtures	686	29.2	7.3	9.8
Stone, clay, glass, and concrete products	625	23.8	9.3	9.9
Glass and glass products	195	31.6	10.3	7.7
Cement, concrete, gypsum, and plaster products	198	11.3	8.9	8.2
Structural clay, pottery, and related products	84	34.4	12.1	14.9
Miscellaneous nonmetallic mineral and stone products	148	24.2	7.1	12.4
Primary metal industries	857	14.0	11.6	7.9
Blast furnaces, steelworks, rolling, and finishing mills	395	11.5	13.4	7.9
Iron and steel foundries	128	12.8	13.3	6.2
Primary aluminum industries	133	14.3	8.5	8.8
Other primary metal industries	201	19.5	9.0	8.5
Fabricated metal industries	1,264	22.4	7.6	9.3
Cutlery, hand tools, and other hardware	119	36.2	8.3	11.0
Fabricated structural metal products	500	15.9	5.9	8.5
Screw machine products	60	26.3	3.2	7.0
Metal forging and stampings	132	26.4	4.9	7.0
Ordnance	83	32.9	11.3	3.1
Miscellaneous and not specified fabricated metal products	369	22.4	10.4	12.3
Machinery, except electrical	2,471	22.9	5.6	5.8
Engines and turbines	88	22.0	5.2	3.8
Farm machinery and equipment	108	16.5	8.7	1.9
Construction and material handling machines	238	15.1	7.1	3.8
Metal working machinery	280	19.2	4.8	4.1
Office and accounting machines	85	33.4	7.5	7.0
Electronic computing equipment	643	33.1	5.9	8.7
Machinery, except electrical, n.e.c. and not specified	1,031	19.2	4.7	6.5
Electrical machinery, equipment and supplies	2,046	39.7	7.7	8.6
Household appliances	156	40.4	11.6	6.9
Radio, T.V., and communication equipment	437	38.8	7.0	7.7
Electrical machinery, equipment, and supplies, n.e.c. and not specified	1,453	39.9	7.4	9.1
Transportation equipment	2,554	21.5	11.1	5.9
Motor vehicles and motor vehicle equipment	1,120	21.8	13.1	4.4
Aircraft and parts	648	22.0	8.7	8.8
Ship and boat building and repairing	262	13.5	18.7	4.4
Guided missiles, space vehicles, and parts	430	25.2	5.8	5.7
Cycles and miscellaneous transportation equipment	65	22.1	4.1	10.4
Professional and photographic equipment, and watches	711	41.3	6.0	8.0
Scientific and controlling instruments	245	37.3	3.1	5.3
Optical and health services supplies	328	48.3	7.7	11.3
Photographic equipment and supplies	125	30.8	7.4	4.8
Toys, amusements, and sporting goods	130	48.5	3.9	10.0
Miscellaneous and not specified manufacturing industries	434	44.6	8.6	12.8
Nondurable goods	8,626	41.0	12.3	10.5
Food and kindred products	1,830	33.2	15.5	14.1
Meat products	469	36.4	25.1	17.0
Dairy products	178	24.9	6.1	4.9

See footnotes at end of table.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

28. Employed civilians by detailed industry, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Industry	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Canned and preserved fruits and vegetables	249	39.2	11.0	21.0
Grain mill products	142	26.4	8.4	8.5
Bakery products	236	32.8	14.1	14.4
Sugar and confectionary products	107	46.8	14.1	18.2
Beverage industries	240	20.7	12.2	8.1
Miscellaneous and not specified food preparations and kindred products	209	38.6	18.2	15.7
Tobacco manufactures	47	32.2	29.0	7.8
Textile mill products	692	47.7	25.1	6.3
Knitting mills	112	66.2	20.2	8.4
Floor coverings, except hard surface	74	46.6	31.3	10.1
Yarn, thread, and fabric mills	437	45.4	26.1	5.1
Apparel and other finished textile products	1,076	74.4	14.4	22.3
Apparel and accessories, except knit	925	77.0	14.4	22.6
Miscellaneous fabricated textile products	151	58.0	14.1	20.2
Paper and allied products	734	23.9	11.1	7.9
Pulp, paper, and paperboard mills	333	18.6	11.4	3.9
Miscellaneous paper and pulp products	199	35.0	10.1	9.8
Paperboard containers and boxes	203	21.8	11.6	12.6
Printing, publishing, and allied products	1,887	44.3	6.2	5.9
Newspaper publishing and printing	539	44.7	7.3	4.7
Printing, publishing, and allied industries, except newspapers	1,348	44.2	5.8	6.4
Chemicals and allied products	1,320	31.2	11.0	6.7
Plastics, synthetics, and resins	166	33.1	11.5	9.1
Drugs	271	46.5	10.7	5.4
Soaps and cosmetics	158	46.6	16.1	14.5
Paints, varnishes, and related products	68	24.8	9.0	8.5
Agricultural chemicals	42	23.7	12.2	8.7
Industrial and miscellaneous chemicals	616	21.2	9.8	4.3
Petroleum and coal products	170	16.7	7.5	5.8
Petroleum refining	143	16.3	6.1	5.1
Rubber and miscellaneous plastics products	731	34.3	9.2	10.5
Tires and inner tubes	80	16.5	18.6	1.7
Other rubber products, and plastics footwear and belting	133	32.9	6.9	13.4
Miscellaneous plastics products	518	37.4	8.4	11.1
Leather and leather products	139	57.8	9.1	13.7
Footwear, except rubber and plastic	89	59.9	8.4	10.5
Leather products, except footwear	38	62.3	10.1	23.8
Transportation, communications, and other public utilities	8,136	28.5	14.0	6.3
Transportation	5,035	25.9	14.7	7.1
Railroads	306	9.5	12.3	5.3
Bus service and urban transit	468	31.4	24.5	8.4
Taxicab service	117	11.6	31.5	14.4
Trucking service	1,862	14.2	12.6	6.7
Warehousing and storage	142	26.7	16.5	13.8
U.S. Postal Service	868	33.7	19.9	5.4
Water transportation	179	18.5	13.1	6.7
Air transportation	722	35.5	10.8	7.1
Services incidental to transportation	357	64.9	5.3	8.0
Communications	1,517	45.9	13.6	5.2
Radio and television broadcasting	245	37.3	9.8	5.4
Telephone (wire and radio)	1,066	49.4	15.4	5.0
Telegraph and miscellaneous communication services	206	38.1	9.1	6.4
Utilities and sanitary services	1,584	19.8	12.2	4.9
Electric light and power	706	21.2	9.3	3.6
Gas and steam supply systems	199	25.3	13.5	4.5
Electric and gas, and other combinations	168	21.1	12.0	4.8
Water supply and irrigation	212	17.5	12.2	5.9
Sanitary services	292	13.7	17.9	7.7
Wholesale and retail trade	24,269	47.4	8.2	8.1
Wholesale trade	4,651	28.4	6.0	7.1
Durable goods	2,567	27.8	5.4	5.4
Motor vehicles and equipment	219	22.6	5.7	5.5
Furniture and home furnishings	71	30.6	12.8	9.0
Lumber and construction materials	168	22.2	4.9	6.0
Metals and minerals, except petroleum	100	26.5	4.8	9.7
Electrical goods	314	31.9	5.1	3.9
Hardware, plumbing, and heating supplies	247	24.8	3.2	3.9
Machinery, equipment and supplies	1,141	29.3	4.6	4.5
Scrap and waste materials	162	12.6	12.1	10.4

See footnotes at end of table.

**HOUSEHOLD DATA
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28. Employed civilians by detailed industry, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Industry	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nondurable goods	2,084	29.2	6.8	9.3
Paper and paper products	129	36.7	10.9	4.5
Drugs, chemicals, and allied products	223	36.9	6.2	6.3
Apparel, fabrics, and notions	134	39.5	5.7	15.2
Groceries and related products	781	25.0	8.0	13.4
Farm products-raw materials	90	22.1	3.3	1.7
Petroleum products	159	30.0	4.3	5.4
Alcoholic beverages	137	12.4	7.9	4.8
Farm supplies	129	24.4	4.6	6.3
Miscellaneous nondurable goods and not specified wholesale trade	302	38.3	5.3	7.8
Retail trade	19,618	51.9	8.7	8.3
Lumber and building material retailing	507	24.0	6.1	6.7
Hardware stores	207	38.5	3.2	4.6
Retail nurseries and garden stores	93	37.2	3.2	9.6
Department stores	2,096	70.3	12.0	6.8
Variety stores	123	72.2	8.1	7.1
Miscellaneous general merchandise stores	124	64.1	13.4	7.5
Grocery stores	2,891	50.3	9.0	7.8
Dairy products stores	52	64.7	10.2	7.5
Retail bakeries	164	61.2	8.6	9.0
Food stores, n.e.c.	193	49.3	9.5	13.7
Motor vehicle dealers	1,138	17.8	5.4	6.5
Auto and home supply stores	411	19.3	5.6	7.3
Gasoline service stations	490	29.1	7.9	5.3
Miscellaneous vehicle dealers	112	23.8	.2	4.2
Apparel and accessory stores, except shoe	848	78.5	9.6	8.2
Shoe stores	169	56.1	12.1	12.0
Furniture and home furnishings stores	551	37.3	6.3	7.3
Household appliances, T.V., and radio stores	532	32.9	5.8	7.1
Eating and drinking places	5,663	55.0	11.1	11.6
Drug stores	561	62.5	6.8	5.6
Liquor stores	141	34.9	8.8	6.2
Sporting goods, bicycles, and hobby stores	354	49.1	4.2	3.1
Book and stationery stores	223	56.6	4.8	4.5
Jewelry stores	199	59.8	4.4	8.4
Sewing, needlework, and piece goods stores	59	89.8	3.6	1.9
Mail order houses	116	66.1	6.9	2.8
Vending machine operators	76	31.7	4.7	4.2
Direct selling establishments	321	73.3	6.1	7.2
Fuel and ice dealers	117	20.5	4.8	3.1
Retail florists	211	69.7	2.8	5.5
Miscellaneous retail stores and not specified retail trade	847	61.3	5.9	6.5
Finance, insurance, and real estate	8,021	58.6	8.8	5.6
Banking	2,045	71.2	10.9	6.9
Savings and loan associations	172	69.8	8.2	6.6
Credit agencies, n.e.c.	537	65.2	10.6	5.9
Security, commodity brokerage, and investment companies	680	38.8	6.6	4.4
Insurance	2,450	60.0	8.2	4.0
Real estate, including real estate-insurance law offices	2,137	48.5	7.7	6.5
Services	39,084	62.1	11.4	6.6
Private households	1,023	85.3	23.6	17.6
Other service industries	38,061	61.4	11.1	6.3
Business and repair services	7,409	39.3	9.9	8.1
Advertising	277	50.2	5.2	3.7
Services to dwellings and other buildings	813	52.7	16.2	18.0
Commercial research, development, and testing labs	267	36.1	5.0	5.8
Personnel supply services	704	71.4	20.4	5.6
Business management and consulting services	604	50.9	5.5	2.4
Computer and data processing services	799	38.5	5.7	3.4
Detective and protective services	373	20.7	22.1	8.2
Business services, n.e.c.	1,488	52.7	7.2	6.0

See footnotes at end of table.

28. Employed civilians by detailed industry, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Industry	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Automobile services, except repair	409	23.7	13.2	14.4
Automobile repair shops	1,020	7.5	7.8	10.8
Electrical repair shops	144	12.5	7.5	8.6
Miscellaneous repair services	510	15.5	3.9	8.2
Personal services, except private household	3,644	66.7	12.2	11.0
Hotels and motels	1,316	55.2	15.4	15.2
Lodging places, except hotels and motels	464	84.3	9.0	7.0
Laundry, cleaning, and garment services	500	59.1	16.8	14.6
Beauty shops	769	89.1	9.8	7.3
Barber shops	89	19.4	14.7	10.0
Funeral service and crematories	89	26.2	12.5	6.2
Dressmaking shops	47	97.7	5.3	10.6
Entertainment and recreational services	1,503	40.6	8.5	6.9
Theaters and motion pictures	504	36.2	8.2	6.6
Bowling alleys, billiard and pool parlors	63	46.0	3.4	.5
Miscellaneous entertainment and recreation services	936	42.6	9.0	7.5
Professional and related services	25,335	68.7	11.5	5.1
Hospitals	4,690	77.5	16.1	5.4
Health services, except hospitals	4,757	77.9	11.9	5.6
Offices of physicians	1,098	71.2	4.1	5.1
Offices of dentists	580	74.9	4.0	5.4
Offices of chiropractors	90	68.8	2.5	1.3
Offices of optometrists	60	66.0	1.7	1.6
Nursing and personal care facilities	1,543	87.5	21.1	5.1
Educational services	9,076	66.6	10.7	5.0
Elementary and secondary schools	6,028	73.0	11.6	5.4
Colleges and universities	2,609	51.3	9.1	4.3
Business, trade, and vocational schools	71	53.9	10.8	4.6
Libraries	180	78.3	9.7	3.4
Educational services, n.e.c.	188	69.2	4.0	4.2
Social services	2,234	79.8	17.0	6.4
Job training and vocational rehabilitation services	225	56.9	13.8	3.7
Child day care services	723	97.2	13.6	5.9
Residential care facilities, without nursing	460	73.0	18.1	6.1
Social services, n.e.c.	826	74.8	20.2	7.8
Other professional services	4,578	48.6	5.1	3.8
Legal services	1,217	56.1	4.2	4.1
Museums, art galleries, and zoos	110	59.9	9.8	5.9
Religious organizations	815	47.3	7.6	3.0
Membership organizations	495	64.3	8.4	5.4
Engineering, architectural, and surveying services	884	24.3	3.7	3.8
Accounting, auditing, and bookkeeping services	638	54.6	3.1	2.5
Noncommercial educational and scientific research	159	42.6	7.1	4.6
Miscellaneous professional and related services	260	55.0	1.7	3.0
Forestry and fisheries	169	17.7	4.4	8.3
Forestry	88	24.2	3.4	10.7
Fisheries	81	10.7	5.5	5.7
Public administration	5,608	42.6	15.1	5.1
Executive and legislative offices	153	58.6	10.2	1.8
General government, n.e.c.	631	52.7	15.3	5.6
Justice, public order, and safety	1,999	29.8	14.1	5.2
Public finance, taxation, and monetary policy	372	60.9	15.3	5.0
Administration of human resources programs	647	67.3	23.2	6.1
Administration of environmental quality and housing programs	305	34.2	10.5	5.4
Administration of economic programs	627	42.5	13.9	4.6
National security and international affairs	873	38.7	14.2	4.8

NOTE: N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified. 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.

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29. Employed civilians with a job but not at work by reason, sex, and pay status

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	1989	1990	Total		Wage and salary workers ¹			
			1989	1990	Paid absences		Unpaid absences	
					1989	1990	1989	1990
Total, 16 years and over	6,170	6,157	6,041	6,031	3,053	3,107	2,398	2,316
Vacation	3,437	3,531	3,397	3,483	2,222	2,277	934	936
Illness	1,405	1,341	1,375	1,316	562	546	699	673
Bad weather	133	89	109	72	(²)	(²)	(²)	(²)
Industrial dispute	63	24	63	24	(²)	(²)	(²)	(²)
All other reasons	1,132	1,172	1,097	1,136	269	284	765	707
Men, 16 years and over	2,956	2,883	2,854	2,782	1,540	1,538	972	902
Vacation	1,626	1,646	1,596	1,609	1,158	1,151	311	315
Illness	711	671	686	649	282	279	332	316
All other reasons ³	619	566	572	524	100	108	328	271
Women, 16 years and over	3,214	3,274	3,188	3,249	1,513	1,570	1,427	1,414
Vacation	1,811	1,885	1,801	1,874	1,064	1,126	624	621
Illness	694	670	689	666	280	267	367	357
All other reasons ³	709	719	698	708	169	176	436	436

¹ Excludes private household workers.

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

³ Includes bad weather and industrial dispute, not shown separately.

NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.

30. Persons at work by hours of work and type of industry

Hours of work	1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	111,756	3,060	108,697	100.0	100.0	100.0
1 to 34 hours	26,877	862	26,015	24.0	28.2	23.9
1 to 4 hours	748	42	706	.7	1.4	.6
5 to 14 hours	4,362	188	4,174	3.9	6.1	3.8
15 to 29 hours	13,171	425	12,745	11.8	13.9	11.7
30 to 34 hours	8,596	207	8,389	7.7	6.8	7.7
35 hours and over	84,879	2,198	82,682	76.0	71.8	76.1
35 to 39 hours	7,277	140	7,137	6.5	4.6	6.6
40 hours	44,433	682	43,751	39.8	22.3	40.3
41 hours and over	33,169	1,376	31,794	29.7	45.0	29.3
41 to 48 hours	11,624	220	11,404	10.4	7.2	10.5
49 to 59 hours	12,355	414	11,941	11.1	13.5	11.0
60 hours and over	9,190	742	8,449	8.2	24.2	7.8
Average hours, total at work	39.4	43.7	39.3	-	-	-
Average hours, workers on full-time schedules	43.7	50.8	43.5	-	-	-

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

(Numbers in thousands)

Reason for working less than 35 hours	1990					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	26,877	8,454	18,423	26,015	8,170	17,845
Economic reasons	5,103	1,880	3,223	4,860	1,771	3,089
Slack work	2,543	1,536	1,007	2,372	1,436	936
Material shortages or repairs to plant and equipment	53	53	-	51	51	-
New job started during week	210	210	-	204	204	-
Job terminated during week	81	81	-	79	79	-
Could find only part-time work	2,216	-	2,216	2,154	-	2,154
Other reasons	21,774	6,574	15,200	21,156	6,400	14,756
Does not want, or unavailable for, full-time work	12,574	-	12,574	12,229	-	12,229
Vacation	1,642	1,642	-	1,624	1,624	-
Illness	1,572	1,409	163	1,544	1,389	155
Bad weather	458	458	-	386	386	-
Industrial dispute	9	9	-	9	9	-
Legal or religious holiday	1,508	1,508	-	1,504	1,504	-
Full time for this job	1,748	-	1,748	1,706	-	1,706
All other reasons	2,262	1,547	715	2,154	1,488	666
Average hours:						
Economic reasons	22.5	24.5	21.3	22.5	24.6	21.4
Other reasons	21.7	26.6	19.6	21.8	26.7	19.7
Worked 30 to 34 hours:						
Economic reasons	1,722	870	852	1,655	829	826
Other reasons	6,874	3,835	3,039	6,734	3,765	2,969

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

(Numbers in thousands)

Industry	1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	108,697	4,860	14,756	89,081	57,288	11,404	20,390	39.3	43.5
Wage and salary workers	100,247	4,241	13,228	82,778	54,427	10,818	17,533	39.2	43.1
Mining	664	12	9	643	333	103	207	46.2	47.0
Construction	5,925	405	237	5,283	3,592	600	1,091	40.3	42.7
Manufacturing	19,804	510	637	18,657	11,990	2,970	3,697	42.0	43.2
Durable goods	11,753	209	274	11,270	7,226	1,800	2,244	42.3	43.2
Nondurable goods	8,052	301	363	7,388	4,764	1,170	1,453	41.5	43.2
Transportation and public utilities	7,381	197	403	6,781	4,270	912	1,599	42.2	44.0
Wholesale and retail trade	21,414	1,412	4,903	15,098	9,124	2,219	3,755	37.1	44.0
Finance, insurance, and real estate	7,062	125	606	6,331	4,377	734	1,220	40.1	42.3
Service industries	32,659	1,526	6,191	24,943	17,013	2,779	5,151	37.4	42.8
Private households	975	160	406	409	267	40	102	27.7	45.5
All other industries	31,684	1,366	5,785	24,533	16,746	2,739	5,049	37.7	42.7
Public administration	5,338	54	243	5,041	3,728	501	812	40.8	42.0
Self-employed workers	8,197	609	1,415	6,174	2,787	574	2,813	40.8	48.0
Unpaid family workers	252	11	113	129	73	12	44	33.9	45.5

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

(Numbers in thousands)

Sex, age, race, and marital status	1990							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Total, 16 years and over	108,697	4,860	14,756	89,081	57,288	31,794	39.3	43.5
16 to 19 years	5,791	577	3,183	2,031	1,603	428	25.7	40.2
16 to 17 years	2,109	170	1,653	286	247	40	19.1	37.8
18 to 19 years	3,682	407	1,529	1,745	1,357	389	29.5	40.6
20 years and over	102,906	4,283	11,573	87,050	55,684	31,365	40.1	43.5
20 to 24 years	11,839	793	2,059	8,988	6,391	2,597	36.9	42.1
25 years and over	91,067	3,490	9,514	78,062	49,294	28,769	40.5	43.7
25 to 44 years	59,751	2,317	5,170	52,264	32,454	19,810	41.0	43.8
45 to 64 years	28,429	1,040	2,958	24,431	15,862	8,569	40.4	43.5
65 years and over	2,886	133	1,387	1,366	975	391	29.2	42.2
Men, 16 years and over	59,146	2,261	4,401	52,484	30,041	22,443	42.2	45.0
16 to 19 years	2,927	281	1,499	1,148	873	275	27.0	40.8
16 to 17 years	1,062	90	803	169	147	22	20.0	38.1
18 to 19 years	1,866	191	696	979	727	252	31.0	41.3
20 years and over	56,218	1,980	2,902	51,336	29,167	22,168	43.0	45.1
20 to 24 years	6,150	383	851	4,916	3,236	1,680	38.7	43.1
25 years and over	50,068	1,597	2,052	46,420	25,932	20,488	43.5	45.3
25 to 44 years	32,811	1,080	757	30,974	16,855	14,119	44.2	45.5
45 to 64 years	15,675	457	604	14,614	8,520	6,094	43.3	45.0
65 years and over	1,582	61	691	830	555	276	31.1	43.1
Women, 16 years and over	49,551	2,599	10,355	36,598	27,247	9,351	35.8	41.3
16 to 19 years	2,864	296	1,684	883	730	154	24.4	39.3
16 to 17 years	1,048	80	851	117	100	17	18.1	37.3
18 to 19 years	1,816	216	834	766	630	136	28.0	39.6
20 years and over	46,688	2,303	8,671	35,714	26,517	9,197	36.5	41.4
20 to 24 years	5,689	410	1,208	4,072	3,155	917	35.1	40.8
25 years and over	40,999	1,893	7,463	31,643	23,362	8,280	36.8	41.4
25 to 44 years	26,941	1,238	4,413	21,290	15,599	5,691	37.2	41.4
45 to 64 years	12,753	584	2,354	9,815	7,341	2,474	36.7	41.4
65 years and over	1,304	73	696	536	420	115	27.0	40.9
RACE								
White, 16 years and over	93,886	3,989	13,199	76,697	47,868	28,829	39.4	43.7
Men	51,659	1,854	3,851	45,955	25,443	20,512	42.5	45.2
Women	42,226	2,136	9,349	30,742	22,425	8,317	35.7	41.4
Black, 16 years and over	11,184	721	1,105	9,358	7,280	2,078	38.3	41.7
Men	5,529	332	372	4,825	3,489	1,337	40.0	42.8
Women	5,655	389	733	4,533	3,791	742	36.6	40.5
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,412	956	1,405	35,049	19,048	16,002	43.9	45.5
Widowed, divorced, or separated	6,257	316	276	5,665	3,246	2,419	42.8	45.1
Single (never married)	15,476	987	2,720	11,769	7,747	4,022	37.7	43.4
Women, 16 years and over:								
Married, spouse present	27,228	1,176	6,080	19,972	15,145	4,827	35.6	41.0
Widowed, divorced, or separated	10,009	600	1,246	8,163	5,811	2,353	38.2	42.1
Single (never married)	12,314	824	3,029	8,462	6,290	2,171	34.5	41.4

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

(Numbers in thousands)

Occupation and sex	1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over ¹	108,498	4,825	14,737	88,936	57,106	11,402	20,428	39.3	43.5
Managerial and professional specialty	28,732	522	2,655	25,555	14,129	3,249	8,177	42.3	45.0
Executive, administrative, and managerial	14,186	192	731	13,263	6,812	1,727	4,724	44.2	45.8
Professional specialty	14,545	330	1,924	12,291	7,317	1,522	3,453	40.3	44.2
Technical, sales, and administrative support	34,980	1,252	6,153	27,575	18,880	3,366	5,328	37.9	42.6
Technicians and related support	3,660	61	408	3,190	2,208	435	547	39.8	42.5
Sales occupations	13,580	677	2,747	10,156	5,387	1,361	3,408	39.1	45.4
Administrative support, including clerical	17,740	514	2,998	14,228	11,285	1,570	1,373	36.5	40.5
Service occupations	14,931	1,369	4,020	9,541	6,926	999	1,617	34.3	42.5
Private household	749	112	327	310	208	31	71	27.3	44.6
Protective service	1,875	42	149	1,685	1,006	255	423	42.7	45.3
Service, except private household and protective	12,306	1,216	3,544	7,547	5,711	712	1,123	33.5	41.8
Precision production, craft, and repair	12,987	645	446	11,896	7,615	1,692	2,589	41.6	43.4
Operators, fabricators, and laborers	16,869	1,037	1,463	14,369	9,555	2,096	2,717	39.9	43.2
Machine operators, assemblers, and inspectors	7,666	381	336	6,949	4,933	1,047	969	40.4	42.1
Transportation and material moving occupations	4,563	218	364	3,981	2,105	583	1,293	43.0	46.2
Handlers, equipment cleaners, helpers, and laborers	4,639	437	763	3,439	2,517	466	456	36.2	41.7
Men, 16 years and over ¹	58,814	2,221	4,342	52,250	29,811	7,153	15,286	42.3	45.0
Managerial and professional specialty	15,837	241	743	14,852	7,063	1,842	5,947	45.2	46.9
Executive, administrative, and managerial	8,537	112	264	8,160	3,593	1,016	3,551	46.3	47.5
Professional specialty	7,300	129	479	6,692	3,470	826	2,396	43.9	46.2
Technical, sales, and administrative support	12,436	286	1,212	10,938	5,847	1,557	3,535	42.4	45.5
Technicians and related support	1,869	26	107	1,737	1,103	247	387	42.0	43.7
Sales occupations	6,955	165	686	6,104	2,612	865	2,627	44.2	47.6
Administrative support, including clerical	3,611	95	418	3,098	2,131	445	521	39.2	42.5
Service occupations	6,011	418	1,086	4,507	3,057	529	921	37.7	43.6
Private household	27	7	9	12	8	-	3	(²)	(²)
Protective service	1,604	32	102	1,470	850	228	392	43.6	45.8
Service, except private household and protective	4,380	380	975	3,025	2,199	301	525	35.6	42.6
Precision production, craft, and repair	11,898	579	324	10,995	6,937	1,576	2,482	42.0	43.6
Operators, fabricators, and laborers	12,632	697	977	10,957	6,907	1,648	2,402	40.8	43.9
Machine operators, assemblers, and inspectors	4,627	160	135	4,332	2,887	697	748	41.8	43.0
Transportation and material moving occupations	4,179	184	238	3,758	1,956	554	1,248	43.8	46.3
Handlers, equipment cleaners, helpers, and laborers	3,826	353	605	2,868	2,064	397	406	36.5	41.9
Women, 16 years and over ¹	49,684	2,603	10,396	36,686	27,295	4,249	5,142	35.8	41.3
Managerial and professional specialty	12,895	280	1,912	10,702	7,066	1,406	2,230	38.6	42.5
Executive, administrative, and managerial	5,649	80	467	5,103	3,219	711	1,173	41.1	43.2
Professional specialty	7,245	201	1,445	5,599	3,847	696	1,057	36.7	41.8
Technical, sales, and administrative support	22,544	966	4,942	16,636	13,034	1,809	1,794	35.4	40.6
Technicians and related support	1,790	35	301	1,454	1,105	188	160	37.5	41.1
Sales occupations	6,625	512	2,060	4,052	2,775	496	782	33.8	42.2
Administrative support, including clerical	14,129	419	2,580	11,130	9,154	1,125	852	35.8	40.0
Service occupations	8,920	951	2,935	5,034	3,869	469	696	32.1	41.5
Private household	722	105	319	298	200	30	68	27.3	44.6
Protective service	271	10	47	215	156	28	31	37.0	42.1
Service, except private household and protective	7,927	836	2,569	4,521	3,513	411	597	32.4	41.2
Precision production, craft, and repair	1,089	66	122	901	678	116	106	38.0	41.3
Operators, fabricators, and laborers	4,237	339	485	3,412	2,648	448	315	37.2	40.8
Machine operators, assemblers, and inspectors	3,039	221	201	2,616	2,046	350	221	38.3	40.7
Transportation and material moving occupations	384	34	126	224	149	29	45	33.9	43.2
Handlers, equipment cleaners, helpers, and laborers	814	84	158	572	453	69	50	34.7	40.5

¹ Excludes farming, forestry, and fishing occupations.

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

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35. Persons not in the labor force by reason, sex, and age

(In thousands)

Reason and sex	Total		Age							
	1989	1990	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			1989	1990	1989	1990	1989	1990	1989	1990
TOTAL										
Total not in labor force	62,523	63,262	6,270	6,365	3,845	3,956	20,716	20,846	31,693	32,075
Do not want a job now	57,128	57,789	5,151	5,235	3,085	3,181	17,795	17,892	31,097	31,482
Current activity:										
Going to school	6,423	6,658	4,116	4,178	1,476	1,579	804	880	26	21
Ill, disabled	4,731	4,973	38	42	106	123	2,452	2,663	2,134	2,145
Keeping house	24,046	23,626	334	348	1,121	1,112	11,500	11,336	11,091	10,831
Retired	17,791	18,429	-	-	-	1	461	442	17,330	17,987
Other activity	4,138	4,102	663	667	382	367	2,578	2,571	516	497
Want a job now	5,395	5,473	1,118	1,150	760	775	2,921	2,955	596	593
Reason for not looking:										
School attendance	1,355	1,411	827	855	257	277	265	276	5	3
Ill health, disability	925	911	14	22	50	50	681	646	180	193
Home responsibility	1,219	1,207	60	62	213	215	899	887	47	42
Think cannot get a job	859	855	102	95	104	119	485	495	168	147
Job-market factors	551	540	55	45	63	82	353	348	80	66
Personal factors	308	315	47	50	41	37	133	148	88	81
Other reasons ¹	1,038	1,090	115	116	136	115	589	650	197	209
Men										
Total not in labor force	20,923	21,417	3,007	3,081	1,284	1,356	4,246	4,399	12,385	12,581
Do not want a job now	18,981	19,449	2,436	2,509	1,005	1,091	3,424	3,537	12,116	12,312
Current activity:										
Going to school	3,161	3,269	2,075	2,107	745	812	336	343	5	7
Ill, disabled	2,425	2,569	20	26	59	65	1,360	1,479	986	999
Keeping house	405	459	13	16	17	29	138	186	237	227
Retired	10,898	11,059	-	-	-	1	340	315	10,558	10,743
Other activity	2,092	2,094	329	360	184	184	1,249	1,214	330	336
Want a job now	1,941	1,968	572	572	279	265	822	861	269	269
Reason for not looking:										
School attendance	671	691	448	454	129	139	92	96	3	1
Ill health, disability	451	455	6	12	28	22	338	342	79	79
Think cannot get a job	391	367	54	50	60	59	194	191	83	67
Other reasons ¹	429	455	64	56	62	45	199	232	104	122
Women										
Total not in labor force	41,601	41,845	3,262	3,304	2,561	2,600	16,470	16,448	19,308	19,494
Do not want a job now	38,147	38,340	2,715	2,726	2,080	2,090	14,371	14,354	18,980	19,170
Current activity:										
Going to school	3,262	3,390	2,041	2,071	731	767	468	538	21	14
Ill, disabled	2,306	2,404	18	16	47	58	1,092	1,184	1,148	1,146
Keeping house	23,640	23,167	322	331	1,104	1,082	11,361	11,149	10,853	10,604
Retired	8,893	7,371	-	-	-	-	121	126	6,772	7,244
Other activity	2,046	2,008	334	308	198	183	1,329	1,357	186	161
Want a job now	3,454	3,505	547	578	481	510	2,098	2,093	328	324
Reason for not looking:										
School attendance	683	720	379	400	128	138	173	180	2	2
Ill health, disability	474	456	8	10	22	28	344	304	101	113
Home responsibility	1,219	1,207	60	62	213	215	899	887	47	42
Think cannot get a job	469	488	48	45	44	59	292	304	85	80
Other reasons ¹	609	635	51	60	74	70	390	418	93	87

¹ Includes small number of men not looking for work because of "home responsibilities."

NOTE: Detail in tables 35 and 36 may not add to not-in-labor-force

totals because of differences in the weighting patterns used in aggregating these data.

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36. Persons not in the labor force by reason, race, Hispanic origin, age, and sex

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	1989	1990	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
WHITE												
Total not in labor force	52,983	53,237	7,659	7,694	17,040	16,969	28,284	28,574	17,480	17,785	35,504	35,453
Do not want a job now	49,178	49,282	6,425	6,384	14,945	14,814	27,808	28,084	16,118	16,359	33,060	32,923
Current activity:												
Going to school	4,980	5,046	4,361	4,365	597	664	22	18	2,454	2,461	2,526	2,585
Ill, disabled	3,686	3,827	108	118	1,854	2,008	1,724	1,700	1,900	1,997	1,786	1,829
Keeping house	21,249	20,632	1,171	1,136	10,033	9,690	10,045	9,806	322	340	20,927	20,292
Retired	15,943	16,498	-	1	405	394	15,538	16,104	9,788	9,933	6,155	6,565
Other activity	3,319	3,278	785	764	2,057	2,058	478	456	1,654	1,627	1,665	1,651
Want a job now	3,832	3,932	1,248	1,292	2,099	2,153	485	487	1,377	1,406	2,455	2,526
Reason for not looking:												
School attendance	941	948	747	759	191	188	4	1	469	470	472	479
Ill health, disability	655	679	45	55	479	477	131	146	322	342	333	337
Home responsibility	854	879	160	171	656	672	39	36	-	-	854	879
Think cannot get a job	558	589	111	144	308	321	140	124	248	246	310	343
Other reasons ¹	823	836	186	163	466	495	172	179	337	348	486	489
BLACK												
Total not in labor force	7,524	7,808	1,941	2,077	2,777	2,891	2,806	2,839	2,738	2,859	4,786	4,948
Do not want a job now	6,160	6,491	1,383	1,527	2,072	2,221	2,704	2,744	2,256	2,398	3,904	4,093
Current activity:												
Going to school	1,012	1,101	912	1,001	97	97	2	3	476	535	536	566
Ill, disabled	939	1,018	33	42	530	571	376	405	467	497	471	520
Keeping house	2,052	2,185	227	258	984	1,125	841	801	64	105	1,989	2,079
Retired	1,494	1,545	-	-	41	39	1,454	1,505	892	892	602	653
Other activity	662	643	211	226	420	389	32	29	357	368	306	275
Want a job now	1,364	1,316	557	551	705	670	101	96	482	461	882	855
Reason for not looking:												
School attendance	350	384	292	316	56	67	1	1	165	172	184	212
Ill health, disability	255	204	19	15	189	146	47	43	120	100	135	105
Home responsibility	320	295	101	99	211	191	8	6	-	-	320	295
Think cannot get a job	262	219	89	61	149	140	24	19	120	97	142	122
Other reasons ¹	177	214	57	60	99	127	21	27	76	92	101	121
HISPANIC ORIGIN												
Total not in labor force	4,468	4,721	1,186	1,245	2,097	2,219	1,185	1,257	1,230	1,332	3,237	3,389
Do not want a job now	3,931	4,116	984	1,022	1,793	1,851	1,154	1,243	1,047	1,138	2,885	2,978
Current activity:												
Going to school	603	637	542	563	59	71	2	3	268	284	335	353
Ill, disabled	361	408	16	27	243	257	101	125	188	224	173	184
Keeping house	2,057	2,112	311	335	1,276	1,325	470	452	44	52	2,013	2,060
Retired	584	666	-	-	17	17	567	649	368	427	216	239
Other activity	326	292	115	96	198	182	14	14	179	151	147	142
Want a job now	522	611	195	223	300	354	27	33	154	188	368	422
Reason for not looking:												
School attendance	118	137	96	110	23	27	-	-	53	61	65	75
Ill health, disability	65	88	9	10	45	62	11	16	32	47	33	40
Home responsibility	153	169	39	36	115	130	-	3	-	-	153	169
Think cannot get a job	94	120	27	41	58	69	10	10	35	40	60	79
Other reasons ¹	91	98	24	26	60	67	7	4	34	39	57	58

¹ Includes small number of men not looking for work because of "home responsibilities."

NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the other races are not presented and Hispanics are included in both the white and black population groups.

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37. Persons not in the labor force who desire work but think they cannot get jobs by reason, sex, age, race, and Hispanic origin

(in thousands)

Reason and sex	1990							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
TOTAL								
Personal factors:								
Employers think too young or old	100	13	2	14	71	82	15	14
Lacks education or training	145	28	21	92	4	95	39	31
Other personal handicap	69	8	14	42	6	50	17	10
Job-market factors:								
Could not find work	317	37	53	197	30	194	104	52
Thinks no job available	224	8	28	150	36	167	44	12
Men								
Personal factors:								
Employers think too young or old	45	9	-	5	31	33	10	6
Lacks education or training	57	17	13	26	1	34	19	10
Other personal handicap	29	4	6	17	2	24	4	4
Job-market factors:								
Could not find work	140	16	27	82	15	84	46	17
Thinks no job available	97	5	13	60	19	71	19	3
Women								
Personal factors:								
Employers think too young or old	55	4	2	9	40	49	6	8
Lacks education or training	89	11	8	66	3	60	21	20
Other personal handicap	40	4	8	24	4	27	13	7
Job-market factors:								
Could not find work	177	21	26	115	15	110	58	35
Thinks no job available	127	4	15	90	18	97	25	9

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.

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38. Work-seeking intentions of persons not in the labor force and work history of those who intend to seek work within the next 12 months by sex, age, and race

(In thousands)

Work-seeking intentions, work history, and sex	Total		Age						Race			
	1989	1990	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
TOTAL												
Do not intend to seek work	53,350	54,057	5,535	5,722	16,716	16,840	31,099	31,495	45,894	46,122	5,830	6,086
Intend to seek work in the next 12 months	9,174	9,205	4,580	4,619	3,999	4,006	594	580	7,116	7,091	1,694	1,722
Never worked	1,453	1,481	1,272	1,306	175	171	6	4	952	957	404	421
Last worked over 5 years ago	1,047	1,039	36	49	812	804	200	187	773	750	246	253
Last worked 1 to 5 years ago	1,970	2,052	541	589	1,241	1,295	188	168	1,508	1,582	381	398
Worked during the previous 12 months	4,703	4,633	2,731	2,674	1,771	1,737	201	221	3,882	3,801	662	650
Men												
Do not intend to seek work	17,497	17,900	2,129	2,255	3,255	3,343	12,114	12,302	14,824	15,077	2,132	2,205
Intend to seek work in the next 12 months	3,426	3,517	2,163	2,182	991	1,056	271	279	2,671	2,689	606	654
Never worked	665	680	624	642	41	37	-	1	439	438	185	193
Last worked over 5 years ago	225	224	10	7	137	143	78	75	160	150	57	62
Last worked 1 to 5 years ago	570	618	189	203	284	334	98	81	432	479	108	113
Worked during the previous 12 months	1,966	1,995	1,340	1,330	530	542	95	123	1,640	1,622	256	287
Women												
Do not intend to seek work	35,853	36,157	3,406	3,467	13,462	13,497	18,985	19,193	31,070	31,046	3,698	3,881
Intend to seek work in the next 12 months	5,748	5,688	2,417	2,437	3,008	2,950	323	301	4,444	4,403	1,088	1,068
Never worked	789	801	648	664	134	134	6	3	513	519	218	228
Last worked over 5 years ago	822	816	26	42	675	661	122	112	613	601	189	191
Last worked 1 to 5 years ago	1,400	1,434	353	386	957	961	90	87	1,076	1,104	274	285
Worked during the previous 12 months	2,737	2,637	1,391	1,344	1,241	1,195	105	98	2,242	2,179	407	363

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

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990
TOTAL								
Civilian noninstitutional population	186,393	188,049	159,338	160,415	21,021	21,300	13,791	14,297
Civilian labor force	123,869	124,787	106,355	107,177	13,497	13,493	9,323	9,576
Percent of population	66.5	66.4	66.7	66.8	64.2	63.3	67.6	67.0
Employed	117,342	117,914	101,584	102,087	11,953	11,966	8,573	8,808
Agriculture	3,199	3,186	2,996	2,974	150	140	440	453
Nonagricultural industries	114,142	114,728	98,588	99,113	11,803	11,826	8,133	8,354
Unemployed	6,528	6,874	4,770	5,091	1,544	1,527	750	769
Unemployment rate	5.3	5.5	4.5	4.7	11.4	11.3	8.0	8.0
Not in labor force	62,523	63,262	52,983	53,237	7,524	7,808	4,468	4,721
Men, 16 years and over								
Civilian noninstitutional population	88,762	89,650	76,468	77,082	9,439	9,567	6,825	7,087
Civilian labor force	67,840	68,234	58,988	59,298	6,701	6,708	5,595	5,755
Percent of population	76.4	76.1	77.1	76.9	71.0	70.1	82.0	81.2
Employed	64,315	64,435	56,352	56,432	5,928	5,915	5,172	5,304
Agriculture	2,513	2,507	2,345	2,326	127	122	393	391
Nonagricultural industries	61,802	61,928	54,007	54,106	5,802	5,793	4,779	4,912
Unemployed	3,525	3,799	2,636	2,866	773	793	423	451
Unemployment rate	5.2	5.6	4.5	4.8	11.5	11.8	7.6	7.8
Not in labor force	20,923	21,417	17,480	17,785	2,738	2,859	1,230	1,332
Men, 20 years and over								
Civilian noninstitutional population	81,619	82,704	70,654	71,482	8,364	8,502	6,114	6,366
Civilian labor force	63,704	64,368	55,441	55,969	6,221	6,275	5,195	5,354
Percent of population	78.1	77.8	78.5	78.3	74.4	73.8	85.0	84.1
Employed	60,837	61,198	53,292	53,576	5,602	5,621	4,853	4,981
Agriculture	2,307	2,303	2,149	2,132	119	116	366	365
Nonagricultural industries	58,530	58,895	51,143	51,444	5,483	5,505	4,487	4,617
Unemployed	2,867	3,170	2,149	2,393	619	654	342	373
Unemployment rate	4.5	4.9	3.9	4.3	10.0	10.4	6.6	7.0
Not in labor force	17,915	18,336	15,213	15,513	2,143	2,227	919	1,012
Women, 16 years and over								
Civilian noninstitutional population	97,630	98,399	82,871	83,332	11,582	11,733	6,965	7,210
Civilian labor force	56,030	56,554	47,367	47,879	6,796	6,785	3,728	3,821
Percent of population	57.4	57.5	57.2	57.5	58.7	57.8	53.5	53.0
Employed	53,027	53,479	45,232	45,654	6,025	6,051	3,401	3,504
Agriculture	687	679	651	647	24	18	48	62
Nonagricultural industries	52,341	52,800	44,581	45,007	6,001	6,033	3,353	3,442
Unemployed	3,003	3,075	2,135	2,225	772	734	327	317
Unemployment rate	5.4	5.4	4.5	4.6	11.4	10.8	8.8	8.3
Not in labor force	41,601	41,845	35,504	35,453	4,786	4,948	3,237	3,389
Women, 20 years and over								
Civilian noninstitutional population	90,550	91,552	77,154	77,838	10,482	10,649	6,278	6,507
Civilian labor force	52,212	53,010	44,105	44,834	6,352	6,387	3,448	3,550
Percent of population	57.7	57.9	57.2	57.6	60.6	60.0	54.9	54.6
Employed	49,745	50,455	42,346	42,992	5,727	5,772	3,172	3,286
Agriculture	642	634	608	603	23	18	44	57
Nonagricultural industries	49,103	49,821	41,738	42,389	5,703	5,755	3,128	3,228
Unemployed	2,467	2,555	1,758	1,842	625	614	276	264
Unemployment rate	4.7	4.8	4.0	4.1	9.8	9.6	8.0	7.4
Not in labor force	38,339	38,542	33,050	33,004	4,130	4,262	2,830	2,957
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,223	13,794	11,530	11,095	2,176	2,150	1,399	1,424
Civilian labor force	7,954	7,410	6,809	6,374	925	831	680	672
Percent of population	55.9	53.7	59.1	57.5	42.5	38.6	48.6	47.2
Employed	6,759	6,261	5,946	5,518	625	573	548	541
Agriculture	250	249	239	239	8	7	31	31
Nonagricultural industries	6,510	6,012	5,707	5,280	617	566	517	509
Unemployed	1,194	1,149	863	856	300	258	132	131
Unemployment rate	15.0	15.5	12.7	13.4	32.4	31.1	19.4	19.5
Not in labor force	6,270	6,385	4,721	4,720	1,251	1,319	719	752

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.

40. Employment status of the civilians of Mexican, Puerto Rican, and Cuban origin by sex and age

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1989	1990	1989	1990	1989	1990	1989	1990
TOTAL								
Civilian noninstitutional population	13,791	14,297	8,295	8,742	1,545	1,546	886	847
Civilian labor force	9,323	9,576	5,740	5,970	889	859	562	552
Percent of population	67.6	67.0	69.2	68.3	57.5	55.6	63.5	65.1
Employed	8,573	8,808	5,247	5,478	803	780	531	512
Agriculture	440	453	396	411	7	9	5	5
Nonagricultural industries	8,133	8,354	4,851	5,067	796	771	526	507
Unemployed	750	769	493	492	86	79	31	40
Unemployment rate	8.0	8.0	8.6	8.2	9.6	9.1	5.6	7.2
Not in labor force	4,468	4,721	2,555	2,773	656	687	324	295
Men, 16 years and over								
Civilian noninstitutional population	6,825	7,087	4,249	4,494	685	680	426	414
Civilian labor force	5,595	5,755	3,540	3,726	520	489	330	310
Percent of population	82.0	81.2	83.3	82.9	75.9	71.9	77.4	74.8
Employed	5,172	5,304	3,259	3,431	469	443	313	288
Agriculture	393	391	354	357	6	8	4	3
Nonagricultural industries	4,779	4,912	2,905	3,074	463	435	309	285
Unemployed	423	451	281	295	51	46	17	21
Unemployment rate	7.6	7.8	7.9	7.9	9.9	9.3	5.3	6.9
Not in labor force	1,230	1,332	709	768	165	191	96	104
Men, 20 years and over								
Civilian noninstitutional population	6,114	6,366	3,769	4,005	611	615	402	394
Civilian labor force	5,195	5,354	3,252	3,432	486	465	320	300
Percent of population	85.0	84.1	86.3	85.7	79.6	75.6	79.6	76.1
Employed	4,853	4,981	3,032	3,193	445	426	303	281
Agriculture	366	365	330	332	6	7	3	3
Nonagricultural industries	4,487	4,617	2,701	2,860	439	419	300	277
Unemployed	342	373	221	239	41	39	17	20
Unemployment rate	6.6	7.0	6.8	7.0	8.5	8.3	5.3	6.6
Not in labor force	919	1,012	517	573	124	150	82	94
Women, 16 years and over								
Civilian noninstitutional population	6,965	7,210	4,046	4,248	860	866	460	433
Civilian labor force	3,728	3,821	2,200	2,244	369	370	232	242
Percent of population	53.5	53.0	54.4	52.8	42.9	42.8	50.5	55.9
Employed	3,401	3,504	1,988	2,047	334	337	218	224
Agriculture	48	62	42	54	1	2	1	1
Nonagricultural industries	3,353	3,442	1,946	1,993	333	336	217	223
Unemployed	327	317	212	197	34	33	14	18
Unemployment rate	8.8	8.3	9.6	8.8	9.3	8.9	6.0	7.5
Not in labor force	3,237	3,389	1,846	2,005	491	495	228	191
Women, 20 years and over								
Civilian noninstitutional population	6,278	6,507	3,594	3,768	775	791	437	410
Civilian labor force	3,448	3,550	2,002	2,053	340	346	223	230
Percent of population	54.9	54.6	55.7	54.5	43.9	43.7	51.1	56.1
Employed	3,172	3,286	1,826	1,899	312	317	210	213
Agriculture	44	57	39	50	1	1	1	1
Nonagricultural industries	3,128	3,228	1,788	1,849	311	316	209	212
Unemployed	276	264	176	155	29	29	13	17
Unemployment rate	8.0	7.4	8.8	7.5	8.5	8.5	5.9	7.4
Not in labor force	2,830	2,957	1,592	1,715	434	446	214	180
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,399	1,424	932	969	159	139	47	43
Civilian labor force	680	672	486	485	62	48	19	22
Percent of population	48.6	47.2	52.1	50.0	38.8	34.5	40.7	50.3
Employed	548	541	389	386	46	37	18	19
Agriculture	31	31	27	29	-	1	-	-
Nonagricultural industries	517	509	362	358	46	36	18	19
Unemployed	132	131	96	98	15	11	1	3
Unemployment rate	19.4	19.5	19.9	20.2	24.9	22.2	(²)	(²)
Not in labor force	719	752	446	485	97	91	28	21

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.

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41. Employed civilians by selected social and economic categories, race, and Hispanic origin

(In thousands)

Category	Total		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990
CHARACTERISTIC								
Total (all civilian workers)	117,342	117,914	101,584	102,087	11,953	11,966	8,573	8,808
Men	64,315	64,435	56,352	56,432	5,928	5,915	5,172	5,304
Women	53,027	53,479	45,232	45,654	6,025	6,051	3,401	3,504
OCCUPATION								
Managerial and professional specialty	30,398	30,657	27,459	27,638	1,862	1,913	1,126	1,108
Executive, administrative, and managerial	14,848	14,839	13,555	13,539	840	853	599	577
Professional specialty	15,550	15,818	13,903	14,099	1,022	1,060	527	531
Technical, sales, and administrative support	36,127	36,675	31,619	32,135	3,346	3,377	2,057	2,119
Technicians and related support	3,645	3,842	3,125	3,308	347	349	157	164
Sales occupations	14,065	14,191	12,741	12,857	906	912	730	751
Administrative support, including clerical	18,416	18,641	15,752	15,970	2,094	2,117	1,169	1,205
Service occupations	15,556	15,759	12,237	12,413	2,731	2,728	1,684	1,771
Private household	872	782	628	561	219	193	138	154
Protective service	1,960	1,988	1,594	1,616	329	329	113	117
Service, except private household and protective	12,724	12,989	10,016	10,236	2,184	2,206	1,433	1,500
Precision production, craft, and repair	13,818	13,641	12,369	12,221	1,089	1,065	1,173	1,160
Mechanics and repairers	4,550	4,448	4,096	3,983	350	362	338	310
Construction trades	5,142	5,147	4,668	4,692	371	357	451	457
Other precision production, craft, and repair	4,126	4,046	3,604	3,546	368	346	384	393
Operators, fabricators, and laborers	18,022	17,775	14,752	14,553	2,714	2,675	2,059	2,168
Machine operators, assemblers, and inspectors	8,248	8,071	6,721	6,599	1,202	1,162	1,121	1,124
Transportation and material moving occupations	4,886	4,849	4,080	3,999	712	748	371	414
Handlers, equipment cleaners, helpers, and laborers	4,888	4,855	3,950	3,955	800	764	567	627
Construction laborers	755	774	619	655	117	102	114	126
Other handlers, equipment cleaners, helpers, and laborers	4,133	4,080	3,330	3,300	683	663	453	501
Farming, forestry, and fishing	3,421	3,408	3,149	3,127	210	208	474	483
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,665	1,679	1,506	1,516	125	111	389	397
Self-employed workers	1,403	1,400	1,361	1,355	24	27	49	55
Unpaid family workers	131	107	129	103	1	2	2	1
Nonagricultural industries:								
Wage and salary workers	105,259	105,715	90,401	90,865	11,410	11,387	7,635	7,874
Government	17,469	17,740	14,196	14,490	2,675	2,646	947	979
Private industries	87,790	87,975	76,205	76,375	8,735	8,741	6,688	6,894
Private households	1,101	1,014	803	741	266	240	161	179
Other industries	86,689	86,961	75,401	75,633	8,469	8,501	6,527	6,715
Self-employed workers	8,805	8,760	7,930	8,022	387	434	481	468
Unpaid family workers	279	252	257	226	6	5	17	12
FULL- AND PART-TIME STATUS¹								
Full-time schedules	95,639	96,113	82,571	82,934	9,930	9,974	7,187	7,357
Part time for economic reasons	4,894	5,103	3,963	4,190	781	753	586	622
Part time for noneconomic reasons	16,809	16,697	15,051	14,962	1,242	1,240	800	828

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

42. Employed civilians of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

(In thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1989	1990	1989	1990	1989	1990	1989	1990
CHARACTERISTIC								
Total (all civilian workers)	8,573	8,808	5,247	5,478	803	780	531	512
Men	5,172	5,304	3,259	3,431	469	443	313	288
Women	3,401	3,504	1,988	2,047	334	337	218	224
OCCUPATION								
Managerial and professional specialty	1,126	1,108	552	553	124	122	126	119
Executive, administrative, and managerial	599	577	298	300	69	57	76	64
Professional specialty	527	531	255	253	55	66	50	55
Technical, sales, and administrative support	2,057	2,119	1,127	1,198	240	238	178	174
Technicians and related support	157	164	79	93	21	19	13	10
Sales occupations	730	751	408	424	61	67	71	68
Administrative support, including clerical	1,169	1,205	640	681	157	152	95	96
Service occupations	1,684	1,771	1,014	1,047	145	141	72	73
Private household	138	154	65	74	3	5	2	2
Protective service	113	117	65	62	22	23	11	11
Service, except private household and protective	1,433	1,500	884	911	120	113	59	61
Precision production, craft, and repair	1,173	1,160	753	774	114	101	61	55
Mechanics and repairers	338	310	195	182	46	39	19	17
Construction trades	451	457	305	332	35	23	25	20
Other precision production, craft, and repair	384	393	254	260	33	39	16	19
Operators, fabricators, and laborers	2,059	2,166	1,381	1,475	170	165	89	84
Machine operators, assemblers, and inspectors	1,121	1,124	754	765	94	86	44	39
Transportation and material moving occupations	371	414	228	264	32	41	22	18
Handlers, equipment cleaners, helpers, and laborers	567	627	399	445	44	39	23	27
Construction laborers	114	126	85	100	4	3	4	3
Other handlers, equipment cleaners, helpers, and laborers	453	501	314	346	40	36	19	24
Farming, forestry, and fishing	474	483	420	430	10	13	5	6
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	389	397	355	363	5	8	4	4
Self-employed workers	49	55	40	47	2	1	1	1
Unpaid family workers	2	1	2	1	-	-	-	-
Nonagricultural industries:								
Wage and salary workers	7,635	7,874	4,596	4,811	767	743	471	462
Government	947	979	583	618	124	121	53	52
Private industries	6,688	6,894	4,013	4,194	643	623	418	410
Private households	161	179	79	92	4	6	2	2
Other industries	6,527	6,715	3,934	4,102	639	617	416	408
Self-employed workers	481	468	244	248	28	27	54	44
Unpaid family workers	17	12	11	7	1	1	-	2
FULL- AND PART-TIME STATUS²								
Full-time schedules	7,187	7,357	4,341	4,541	703	677	466	440
Part time for economic reasons	586	622	425	444	28	29	20	18
Part time for noneconomic reasons	800	828	481	492	71	75	46	54

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

² Employed persons with a job but not at work are distributed according to whether they usually work full or part time.

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43. Employed civilians by sex, age, race, and Hispanic origin

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990
Total, 16 years and over	117,342	117,914	101,584	102,087	11,953	11,966	8,573	8,808
16 to 19 years	6,759	6,261	5,946	5,518	625	573	548	541
16 to 17 years	2,588	2,328	2,278	2,078	237	187	165	171
18 to 19 years	4,172	3,933	3,668	3,440	388	386	383	369
20 to 24 years	12,962	12,622	11,084	10,865	1,467	1,344	1,325	1,347
25 years and over	97,621	99,031	84,554	85,704	9,861	10,049	6,700	6,920
25 to 54 years	82,767	84,139	71,307	72,453	8,626	8,773	5,997	6,230
55 years and over	14,854	14,892	13,247	13,251	1,235	1,276	703	690
Men, 16 years and over	64,315	64,435	56,352	56,432	5,928	5,915	5,172	5,304
16 to 19 years	3,477	3,237	3,060	2,856	327	294	319	322
16 to 17 years	1,327	1,207	1,171	1,081	124	95	94	100
18 to 19 years	2,150	2,030	1,889	1,775	202	198	225	222
20 to 24 years	6,799	6,625	5,839	5,726	742	679	821	646
25 years and over	54,039	54,573	47,453	47,850	4,859	4,942	4,032	4,136
25 to 54 years	45,523	46,071	39,765	40,197	4,231	4,293	3,615	3,734
55 years and over	8,516	8,502	7,688	7,654	628	649	417	402
Women, 16 years and over	53,027	53,479	45,232	45,654	6,025	6,051	3,401	3,504
16 to 19 years	3,282	3,024	2,886	2,662	298	279	229	218
16 to 17 years	1,261	1,122	1,107	998	113	91	71	71
18 to 19 years	2,021	1,903	1,779	1,665	185	188	158	147
20 to 24 years	6,163	5,997	5,245	5,139	725	666	504	501
25 years and over	43,582	44,458	37,101	37,853	5,002	5,107	2,668	2,785
25 to 54 years	37,244	38,068	31,543	32,256	4,395	4,480	2,383	2,496
55 years and over	6,338	6,390	5,559	5,597	607	627	285	289

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.

44. Unemployment rates by sex, age, race, and Hispanic origin

(Civilian workers)

Sex and age	Total		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990
Total, 16 years and over	5.3	5.5	4.5	4.7	11.4	11.3	8.0	8.0
16 to 19 years	15.0	15.5	12.7	13.4	32.4	31.1	19.4	19.5
16 to 17 years	17.2	17.8	15.2	15.7	32.9	36.7	26.4	24.5
18 to 19 years	13.6	14.1	11.1	12.0	32.2	28.0	16.0	17.0
20 to 24 years	8.6	8.8	7.2	7.2	18.0	19.9	10.7	9.1
25 years and over	4.0	4.4	3.5	3.8	8.6	8.5	6.4	6.8
25 to 54 years	4.2	4.5	3.6	3.9	9.0	9.0	6.5	6.9
55 years and over	3.1	3.3	2.8	3.1	5.6	4.7	5.7	5.6
Men, 16 years and over	5.2	5.6	4.5	4.8	11.5	11.8	7.6	7.8
16 to 19 years	15.9	16.3	13.7	14.2	31.9	32.1	20.2	19.6
16 to 17 years	18.6	18.3	16.4	15.9	34.4	38.9	27.6	24.0
18 to 19 years	14.2	15.0	12.0	13.1	30.3	28.2	16.8	17.4
20 to 24 years	8.8	9.1	7.5	7.6	17.9	20.2	9.7	8.3
25 years and over	3.9	4.4	3.4	3.9	8.6	8.9	5.9	6.7
25 to 54 years	4.1	4.5	3.5	3.9	8.9	9.4	5.9	6.7
55 years and over	3.2	3.6	2.9	3.4	6.4	5.3	6.4	6.4
Women, 16 years and over	5.4	5.4	4.5	4.6	11.4	10.8	8.8	8.3
16 to 19 years	14.0	14.7	11.5	12.6	33.0	30.0	18.2	19.5
16 to 17 years	15.7	17.3	13.8	15.4	31.1	34.2	24.7	25.3
18 to 19 years	13.0	13.0	10.1	10.8	34.0	27.8	14.9	16.3
20 to 24 years	8.3	8.5	6.8	6.8	18.1	19.7	12.2	10.4
25 years and over	4.2	4.3	3.6	3.7	8.5	8.1	7.2	6.9
25 to 54 years	4.4	4.5	3.7	3.9	9.0	8.7	7.5	7.2
55 years and over	2.8	2.8	2.7	2.7	4.7	4.2	4.6	4.5

45. Unemployed persons by duration of unemployment, race, and Hispanic origin

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990
DURATION								
Total, 16 years and over	6,528	6,874	4,770	5,091	1,544	1,527	750	769
Less than 5 weeks	3,174	3,169	2,363	2,398	706	654	398	387
5 to 14 weeks	1,978	2,201	1,445	1,605	469	512	219	238
15 weeks and over	1,375	1,504	963	1,087	369	360	132	144
15 to 26 weeks	730	809	526	602	180	176	75	83
27 weeks and over	646	695	437	485	189	184	57	60
Average (mean) duration, in weeks	11.9	12.1	11.4	11.7	13.3	13.3	10.5	10.4
Median duration, in weeks	4.8	5.4	4.6	5.1	5.5	6.1	4.2	4.5
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	48.6	46.1	49.5	47.1	45.7	42.9	53.1	50.3
5 to 14 weeks	30.3	32.0	30.3	31.5	30.4	33.5	29.2	31.0
15 weeks and over	21.1	21.9	20.2	21.4	23.9	23.6	17.7	18.7
15 to 26 weeks	11.2	11.8	11.0	11.8	11.7	11.5	10.0	10.9
27 weeks and over	9.9	10.1	9.2	9.5	12.2	12.1	7.6	7.8

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.

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

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,528	6,874	4,770	5,091	1,544	1,527	750	769
Job losers	2,983	3,322	2,240	2,534	660	678	380	406
On layoff	850	1,018	711	845	121	145	83	93
Other job losers	2,133	2,305	1,529	1,689	539	533	297	315
Job leavers	1,024	1,014	812	787	174	187	105	102
Reentrants	1,843	1,883	1,303	1,346	474	461	175	168
New entrants	677	654	416	423	235	201	90	91
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	45.7	48.3	46.9	49.8	42.8	44.4	50.7	53.0
On layoff	13.0	14.8	14.9	16.6	7.9	9.5	11.1	12.1
Other job losers	32.7	33.5	32.1	33.2	34.9	34.9	39.6	40.9
Job leavers	15.7	14.8	17.0	15.5	11.3	12.2	13.9	13.2
Reentrants	28.2	27.4	27.3	26.4	30.7	30.2	23.3	21.9
New entrants	10.4	9.5	8.7	8.3	15.2	13.2	12.0	11.9
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.4	2.7	2.1	2.4	4.9	5.0	4.1	4.3
Job leavers .....	.8	.8	.8	.7	1.3	1.4	1.1	1.1
Reentrants	1.5	1.5	1.2	1.3	3.5	3.4	1.9	1.8
New entrants .....	.5	.5	.4	.4	1.7	1.5	1.0	1.0

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.

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	1989	1990	Total		Employed		Unemployed			
			1989	1990	1989	1990	Number		Percent of labor force	
							1989	1990	1989	1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,440	7,636	6,799	6,952	6,555	6,671	243	281	3.6	4.0
35 to 49 years	6,463	6,512	6,140	6,155	5,921	5,901	218	254	3.6	4.1
35 to 39 years	1,755	1,419	1,655	1,332	1,579	1,261	76	72	4.6	5.4
40 to 44 years	3,263	3,291	3,118	3,134	3,019	3,015	99	119	3.2	3.8
45 to 49 years	1,446	1,803	1,367	1,689	1,323	1,626	54	64	3.2	3.8
50 years and over	977	1,124	659	796	634	770	25	26	3.7	3.3
NONVETERANS										
Total, 35 to 49 years	16,212	17,310	15,176	16,218	14,622	15,579	554	639	3.6	3.9
35 to 39 years	7,407	7,944	7,017	7,551	6,750	7,257	267	294	3.8	3.9
40 to 44 years	4,722	5,164	4,415	4,610	4,256	4,627	159	183	3.6	3.8
45 to 49 years	4,083	4,202	3,744	3,857	3,616	3,696	128	161	3.4	4.2

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data

are limited to those 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
Total, 35 to 49 years												
Civilian noninstitutional population	5,787	5,851	576	558	235	243	13,856	14,747	1,639	1,761	1,495	1,592
Civilian labor force	5,526	5,562	520	499	220	225	13,100	13,962	1,423	1,532	1,378	1,449
Employed	5,344	5,356	487	458	207	214	12,688	13,482	1,305	1,408	1,290	1,348
Unemployed	182	206	33	41	13	11	411	480	118	124	86	102
Unemployment rate	3.3	3.7	6.3	8.2	5.8	4.9	3.1	3.4	8.3	8.1	6.2	7.1
35 to 39 years												
Civilian noninstitutional population	1,552	1,227	171	169	73	66	6,349	6,847	742	763	629	698
Civilian labor force	1,479	1,167	147	145	67	62	6,065	6,573	664	677	584	652
Employed	1,419	1,114	132	128	63	59	5,871	6,348	602	620	549	608
Unemployed	59	53	15	16	5	3	194	225	62	57	35	44
Unemployment rate	4.0	4.6	10.1	11.1	7.0	4.5	3.2	3.4	9.3	8.5	6.0	6.8
40 to 44 years												
Civilian noninstitutional population	2,935	2,989	285	252	106	117	4,047	4,375	466	550	471	484
Civilian labor force	2,811	2,858	266	228	99	107	3,825	4,114	398	475	440	441
Employed	2,726	2,760	253	210	94	101	3,704	3,979	367	438	415	413
Unemployed	85	98	13	18	5	6	121	135	32	37	25	29
Unemployment rate	3.0	3.4	4.7	7.9	5.0	5.6	3.2	3.3	8.0	7.7	5.7	6.5
45 to 49 years												
Civilian noninstitutional population	1,301	1,635	120	137	55	60	3,459	3,525	431	448	395	410
Civilian labor force	1,237	1,536	107	126	53	56	3,209	3,275	360	380	351	355
Employed	1,199	1,482	102	119	50	53	3,114	3,154	336	350	326	325
Unemployed	38	55	5	7	3	2	96	120	25	30	25	29
Unemployment rate	3.1	3.6	4.8	5.4	5.6	4.1	3.0	3.7	6.8	8.0	7.2	8.3

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; published data are limited to those 35 to 49 years of age, the group that most closely corresponds

to the bulk of the Vietnam-era veteran population. Detail for the above race and Hispanic-origin groups will not to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

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49. Unemployment in families by type of family, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Type of family, race, and Hispanic origin	1989					1990				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	Percent of families:		
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL										
Total families	65,112	4,789	28.5	71.5	64.2	65,480	5,006	28.1	71.9	64.4
With children under 18 years of age	31,712	2,702	32.7	67.3	61.1	31,856	2,825	32.2	67.8	60.7
Married-couple families	51,237	3,261	17.9	82.1	75.0	51,365	3,391	17.7	82.3	74.6
With children under 18 years of age	24,023	1,867	17.8	82.2	75.8	23,928	1,949	17.3	82.7	75.0
Families maintained by women	10,997	1,263	53.2	46.8	39.0	11,154	1,308	52.6	47.4	40.0
With children under 18 years of age	6,542	741	66.7	33.3	27.4	6,711	770	65.8	34.2	28.1
Families maintained by men	2,878	266	42.6	57.4	51.7	2,961	308	39.3	60.7	55.5
With children under 18 years of age	1,146	94	60.6	39.4	34.0	1,217	105	61.9	38.1	35.2
White										
Total families	55,826	3,554	24.9	75.1	68.0	56,018	3,752	24.7	75.3	67.5
With children under 18 years of age	26,342	1,976	27.7	72.3	65.9	26,375	2,077	27.6	72.4	64.6
Married-couple families	46,142	2,688	17.9	82.1	75.2	46,233	2,816	17.6	82.4	74.5
With children under 18 years of age	21,231	1,526	17.9	82.1	75.7	21,109	1,593	17.3	82.7	74.6
Families maintained by women	7,425	682	48.2	51.8	43.3	7,448	711	48.7	51.3	43.1
With children under 18 years of age	4,211	383	61.6	38.4	31.9	4,301	406	61.8	38.2	30.5
Families maintained by men	2,259	185	40.2	59.8	54.3	2,336	225	37.6	62.4	57.5
With children under 18 years of age	900	67	56.7	43.3	37.3	966	76	59.5	40.5	36.7
Black										
Total families	7,304	1,077	40.9	59.1	51.6	7,405	1,067	40.8	59.2	52.9
With children under 18 years of age	4,203	631	48.5	51.5	45.6	4,262	635	48.1	51.9	47.0
Married-couple families	3,562	455	17.4	82.6	74.7	3,546	436	18.1	81.9	75.5
With children under 18 years of age	1,854	265	16.2	83.8	77.1	1,845	267	16.5	83.5	78.3
Families maintained by women	3,254	553	59.1	40.9	33.6	3,360	562	57.8	42.2	35.8
With children under 18 years of age	2,139	341	71.9	28.1	22.8	2,212	345	71.3	28.7	24.1
Families maintained by men	488	69	49.3	50.7	43.5	498	69	46.4	53.6	47.8
With children under 18 years of age	210	24	(¹)	(¹)	(¹)	205	23	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,795	567	28.2	71.8	65.6	4,871	578	28.0	72.0	64.2
With children under 18 years of age	3,055	381	32.0	68.0	63.5	3,092	379	31.1	68.9	60.7
Married-couple families	3,337	403	20.1	79.9	74.4	3,325	380	20.1	79.9	71.8
With children under 18 years of age	2,165	282	21.9	78.1	73.9	2,158	270	20.7	79.3	70.8
Families maintained by women	1,095	130	51.9	48.1	38.8	1,160	145	47.2	52.8	45.1
With children under 18 years of age	757	88	61.4	38.6	31.8	795	93	57.0	43.0	34.4
Families maintained by men	364	34	(¹)	(¹)	(¹)	386	54	31.5	68.5	63.0
With children under 18 years of age	133	11	(¹)	(¹)	(¹)	139	16	(¹)	(¹)	(¹)

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

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.

50. Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	1989			1990				
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed in families ¹	5,325	30.2	69.8	62.7	5,528	29.5	70.5	63.2
Husbands	1,166	35.9	64.1	52.0	1,298	33.7	66.3	52.7
With children under 18 years of age	699	41.6	58.4	46.1	781	37.9	62.1	47.4
Wives	1,056	14.4	85.6	81.0	1,093	14.9	85.1	80.8
With children under 18 years of age	661	12.4	87.6	83.8	689	12.9	87.1	83.3
Relatives in married-couple families	1,361	9.9	90.1	85.8	1,326	9.5	90.5	86.2
Women who maintain families	558	83.1	16.9	11.5	568	84.4	15.6	10.0
With children under 18 years of age	463	91.9	8.1	4.1	475	92.4	7.6	3.9
Relatives in families maintained by women	888	34.1	65.9	56.6	902	31.5	68.5	59.9
Men who maintain families	123	66.7	33.3	26.3	130	63.2	36.8	32.2
With children under 18 years of age	58	89.9	10.1	4.8	66	89.3	10.7	7.3
Relatives in families maintained by men	173	29.9	70.1	65.4	211	26.2	73.8	68.4
White								
Total unemployed in families ¹	3,863	26.6	73.4	66.3	4,076	26.3	73.7	66.1
Husbands	968	36.7	63.3	51.1	1,083	33.9	66.1	51.4
With children under 18 years of age	568	42.6	57.4	44.5	634	38.6	61.4	45.2
Wives	882	13.9	86.1	81.6	923	14.1	85.9	82.0
With children under 18 years of age	540	11.5	88.5	85.0	569	11.9	88.1	84.8
Relatives in married-couple families	1,072	9.3	90.7	86.6	1,052	9.2	90.8	86.9
Women who maintain families	290	77.6	22.4	15.3	298	79.6	20.4	13.5
With children under 18 years of age	230	89.1	10.9	5.3	240	90.4	9.6	4.6
Relatives in families maintained by women	450	31.0	69.0	59.9	471	30.1	69.9	61.0
Men who maintain families	84	64.8	35.2	27.6	96	61.8	38.2	33.7
With children under 18 years of age	39	88.0	12.0	5.2	49	88.2	11.8	8.1
Relatives in families maintained by men	118	27.3	72.7	68.9	154	24.6	75.4	70.7
Black								
Total unemployed in families ¹	1,287	41.0	59.0	51.8	1,243	40.1	59.9	53.5
Husbands	153	29.7	70.3	57.8	160	32.6	67.4	59.8
With children under 18 years of age	98	34.9	65.1	54.5	112	33.5	66.5	58.6
Wives	136	18.9	83.1	77.2	121	18.4	81.6	76.6
With children under 18 years of age	96	16.0	84.0	78.3	86	17.1	82.9	78.5
Relatives in married-couple families	244	13.0	87.0	82.3	221	10.6	89.4	83.8
Women who maintain families	255	89.4	10.6	7.0	257	90.0	10.0	5.9
With children under 18 years of age	222	94.5	5.5	2.9	224	94.7	5.3	2.9
Relatives in families maintained by women	421	37.7	62.3	52.7	409	33.0	67.0	58.8
Men who maintain families	32	(²)	(²)	(²)	28	(²)	(²)	(²)
With children under 18 years of age	17	(²)	(²)	(²)	14	(²)	(²)	(²)
Relatives in families maintained by men	46	36.6	63.4	57.0	48	32.1	67.9	61.1
Hispanic origin								
Total unemployed in families ¹	629	30.0	70.0	83.6	637	29.2	70.8	62.8
Husbands	146	44.7	55.3	47.8	159	39.5	60.5	48.3
With children under 18 years of age	106	51.6	48.4	41.4	121	43.6	56.4	43.6
Wives	129	15.6	84.4	79.4	118	13.7	86.3	81.1
With children under 18 years of age	93	15.9	84.1	80.9	87	13.1	86.9	82.0
Relatives in married-couple families	175	9.5	90.5	85.3	144	8.3	91.7	84.3
Women who maintain families	56	79.8	20.2	14.3	59	79.9	20.1	14.4
With children under 18 years of age	48	86.5	13.5	8.0	50	86.0	14.0	8.8
Relatives in families maintained by women	83	32.5	67.5	56.3	95	29.2	70.8	61.8
Men who maintain families	17	(²)	(²)	(²)	25	(²)	(²)	(²)
With children under 18 years of age	6	(²)	(²)	(²)	10	(²)	(²)	(²)
Relatives in families maintained by men	23	(²)	(²)	(²)	38	19.1	80.9	73.8

¹ Excludes persons living alone or with nonrelatives, persons in married-couple families where the husband or wife is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in

aggregating the data.

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

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.

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51. Employed civilians by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	1989			1990				
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in ¹ families ¹	94,324	22.1	77.9	67.7	94,312	22.3	77.7	67.5
Husbands	38,873	28.6	71.4	54.3	38,794	28.1	71.9	54.8
With children under 18 years of age	22,308	30.8	69.2	49.0	22,088	30.6	69.4	49.1
Wives	28,565	8.3	91.7	87.8	28,912	8.9	91.1	87.1
With children under 18 years of age	15,281	4.4	95.6	93.0	15,346	5.2	94.8	92.0
Relatives in married-couple families	11,804	8.8	93.2	90.1	11,622	7.1	92.9	89.2
Women who maintain families	6,338	63.1	36.9	25.5	6,357	64.0	36.0	24.9
With children under 18 years of age	4,089	80.2	19.8	10.1	4,134	61.2	18.8	9.6
Relatives in families maintained by women	4,831	23.9	76.1	67.6	4,805	23.8	76.2	67.4
Men who maintain families	2,113	52.4	47.6	37.7	2,194	55.9	44.1	35.5
With children under 18 years of age	974	80.2	19.8	11.8	1,048	84.1	15.9	9.0
Relatives in families maintained by men	1,699	16.1	83.9	78.3	1,629	16.0	84.0	79.2
White								
Total employed in families ¹	82,011	21.4	78.6	68.1	82,030	21.5	78.5	67.9
Husbands	35,167	29.0	71.0	53.2	34,986	28.4	71.8	53.6
With children under 18 years of age	19,877	31.5	68.5	47.2	19,656	31.2	68.8	47.2
Wives	25,419	8.0	92.0	88.2	25,801	8.5	91.5	87.6
With children under 18 years of age	13,377	4.0	96.0	93.5	13,456	4.7	95.3	92.6
Relatives in married-couple families	10,393	6.7	93.3	90.3	10,205	7.1	92.9	89.4
Women who maintain families	4,464	60.9	39.1	28.9	4,483	62.2	37.8	25.8
With children under 18 years of age	2,824	79.5	20.5	10.0	2,878	80.7	19.3	9.3
Relatives in families maintained by women	3,510	24.0	76.0	67.6	3,452	24.2	75.8	66.7
Men who maintain families	1,704	51.3	48.7	38.2	1,787	54.2	45.8	36.6
With children under 18 years of age	781	79.1	20.9	12.3	850	83.0	17.0	9.3
Relatives in families maintained by men	1,353	15.0	85.0	79.9	1,335	14.5	85.5	80.9
Black								
Total employed in families ¹	9,153	29.3	70.7	63.3	9,084	29.6	70.4	63.3
Husbands	2,800	23.6	76.4	66.6	2,569	22.7	77.3	67.8
With children under 18 years of age	1,820	23.2	76.8	66.9	1,593	22.4	77.6	68.2
Wives	2,159	12.9	87.1	83.1	2,156	13.5	86.5	82.4
With children under 18 years of age	1,278	8.5	91.5	86.9	1,299	9.8	90.2	87.1
Relatives in married-couple families	945	9.3	90.7	86.6	953	8.2	91.8	87.4
Women who maintain families	1,703	68.8	31.2	22.1	1,710	69.7	30.3	21.6
With children under 18 years of age	1,160	81.7	18.3	10.5	1,153	82.8	17.2	9.9
Relatives in families maintained by women	1,188	23.4	76.6	67.8	1,173	23.9	76.1	68.2
Men who maintain families	318	60.8	39.2	31.8	318	66.7	33.3	27.9
With children under 18 years of age	166	85.3	14.7	8.7	161	90.4	9.6	7.0
Relatives in families maintained by men	242	24.1	75.9	68.7	202	26.9	73.1	67.5
Hispanic origin								
Total employed in families ¹	-6,988	25.0	75.0	67.3	7,109	24.5	75.5	68.1
Husbands	2,728	36.1	63.9	51.9	2,651	34.6	65.4	53.9
With children under 18 years of age	1,948	38.8	61.2	48.5	1,910	37.5	62.5	50.0
Wives	1,690	8.4	91.6	87.7	1,690	10.1	89.9	86.3
With children under 18 years of age	1,118	5.9	94.1	90.1	1,129	7.6	92.2	88.7
Relatives in married-couple families	1,001	5.9	94.1	90.3	1,104	6.5	93.5	89.8
Women who maintain families	541	61.1	38.9	30.8	562	60.3	39.7	30.4
With children under 18 years of age	369	73.8	26.2	19.0	382	75.1	24.9	16.4
Relatives in families maintained by women	449	19.0	81.0	73.0	481	20.1	79.9	71.3
Men who maintain families	287	40.7	59.3	54.4	306	41.1	58.9	54.5
With children under 18 years of age	111	73.9	26.1	21.2	114	74.8	25.2	21.2
Relatives in families maintained by men	294	9.1	90.9	87.1	316	6.9	93.1	89.3

¹ Excludes persons living alone or with nonrelatives, persons in married-couple families where the husband or wife is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in

aggregating the data.

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.

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52. Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin

Type of family, number of earners, race, and Hispanic origin	Number of families		Median weekly earnings	
	1989	1990	1989	1990
TOTAL				
Total families with earners ¹	43,525	43,759	\$624	\$653
Married-couple families	34,125	34,219	701	732
One earner	12,139	12,166	430	455
Husband	9,175	8,994	502	520
Wife	2,236	2,407	251	267
Other family member	727	764	253	280
Two or more earners	21,987	22,053	845	880
Husband and wife	19,488	19,599	859	897
Husband and other family member(s)	1,811	1,751	801	825
Wife and other family member(s)	519	527	521	557
Other family members only	169	176	558	554
Families maintained by women	7,295	7,323	347	363
One earner	4,929	4,983	273	288
Householder	3,898	3,937	282	296
Other family member	1,031	1,045	234	254
Two or more earners	2,366	2,340	566	607
Families maintained by men	2,104	2,218	506	514
One earner	1,216	1,352	382	396
Two or more earners	888	866	718	778
White				
Total families with earners ¹	36,981	37,239	651	681
Married-couple families	30,233	30,361	712	745
One earner	10,815	10,856	449	473
Husband	8,310	8,162	511	535
Wife	1,879	2,044	254	270
Two or more earners	19,418	19,505	854	892
Husband and wife	17,225	17,354	867	908
Families maintained by women	5,114	5,127	363	382
Families maintained by men	1,634	1,751	522	539
Black				
Total families with earners ¹	5,133	5,082	447	459
Married-couple families	2,782	2,724	579	601
One earner	929	893	299	304
Husband	576	527	360	345
Wife	282	290	230	243
Two or more earners	1,853	1,831	730	748
Husband and wife	1,638	1,634	753	768
Families maintained by women	1,984	1,986	303	314
Families maintained by men	367	372	430	397
Hispanic origin				
Total families with earners ¹	3,542	3,624	480	496
Married-couple families	2,619	2,599	520	555
One earner	1,044	1,050	310	322
Husband	858	814	332	356
Wife	126	164	220	236
Two or more earners	1,574	1,549	667	716
Husband and wife	1,249	1,204	680	727
Families maintained by women	633	691	337	326
Families maintained by men	291	334	467	468

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other

person maintaining the family is either self-employed or in the Armed Forces.

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53. Families with unemployed members and wage and salary workers by type of family and median weekly earnings

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	1989	1990	1989	1990
Married-couple families ¹	2,462	2,510	\$464	\$489
Husband unemployed	723	806	282	305
Wife only earner	544	615	254	280
Wife and other earner(s)	114	126	501	518
Other earner(s) only	65	66	235	216
Wife unemployed	829	846	446	486
Husband only earner	704	696	415	443
Husband and other earner(s)	110	137	712	782
Other earner(s) only	16	14	(²)	(²)
Other member(s) unemployed	910	858	717	752
Husband or wife earner	339	312	507	535
Both husband and wife earners	536	510	881	912
Other combinations of earners	35	35	(²)	(²)
Families maintained by women ¹	556	596	307	307
Householder unemployed	101	85	251	197
Other member(s) unemployed	455	511	320	323
Families maintained by men ¹	130	173	398	387

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or

in the Armed Forces.

² Data not shown where base is less than 50,000.

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1989	1990	1989	1990
SEX AND AGE				
Total, 16 years and over	84,553	85,082	\$399	\$415
Men, 16 years and over	48,949	49,015	468	485
16 to 24 years	6,665	6,313	271	283
25 years and over	42,283	42,702	500	514
Women, 16 years and over	35,605	36,068	328	348
16 to 24 years	5,223	5,001	246	254
25 years and over	30,382	31,066	351	370
FAMILY RELATIONSHIP				
Husbands	31,282	31,326	513	532
Wives	18,448	18,666	342	363
Women who maintain families	5,000	5,007	321	339
Men who maintain families	1,672	1,786	425	444
Other persons in families:				
Men	6,569	6,434	282	296
Women	4,439	4,475	257	271
All other men ¹	9,426	9,468	428	442
All other women ¹	7,718	7,920	361	376
RACE, HISPANIC ORIGIN, AND SEX				
White	72,113	72,637	409	427
Men	42,465	42,563	482	497
Women	29,648	30,075	334	355
Black	9,628	9,642	319	329
Men	4,932	4,909	348	360
Women	4,696	4,733	301	308
Hispanic origin	6,718	6,993	298	307
Men	4,247	4,410	315	322
Women	2,472	2,583	269	280

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

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.

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1989	1990	1989	1990
SEX AND AGE				
Total, 16 years and over	18,926	18,822	\$112	\$119
Men, 16 years and over	5,840	5,813	105	112
16 to 24 years	3,227	3,190	90	97
25 years and over	2,614	2,623	135	144
Women, 16 years and over	13,086	13,009	116	123
16 to 24 years	4,040	3,832	86	94
25 years and over	9,046	9,177	137	144
FAMILY RELATIONSHIP				
Husbands	1,549	1,573	138	148
Wives	6,839	6,851	140	148
Women who maintain families	1,020	1,010	122	134
Men who maintain families	135	116	124	137
Other persons in families:				
Men	3,110	3,078	89	96
Women	3,444	3,327	83	92
All other men ¹	1,046	1,046	127	138
All other women ¹	1,784	1,821	118	124
RACE, HISPANIC ORIGIN, AND SEX				
White	16,510	16,483	113	120
Men	4,945	4,953	106	111
Women	11,564	11,530	117	125
Black	1,842	1,774	104	111
Men	664	632	104	114
Women	1,177	1,143	104	109
Hispanic origin	1,176	1,188	116	124
Men	463	459	119	125
Women	713	729	114	124

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

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.

56. Median weekly earnings of full-time wage and salary workers by detail occupation and sex

(Numbers in thousands)

Occupation	1990					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Total, 16 years and over	85,082	\$415	49,015	\$485	36,068	\$348
Managerial and professional specialty	22,858	608	12,263	731	10,595	511
Executive, administrative, and managerial	11,165	604	8,401	742	4,764	485
Administrators and officials, public administration	484	634	286	710	198	549
Administrators, protective services	54	606	43	(¹)	12	(¹)
Financial managers	455	688	252	837	202	558
Personnel and labor relations managers	117	684	51	881	66	604
Purchasing managers	109	738	80	789	29	(¹)
Managers, marketing, advertising, and public relations	468	797	321	902	147	816
Administrators, education and related fields	474	724	243	819	231	588
Managers, medicine and health	158	636	55	788	103	592
Managers, properties and real estate	254	419	114	517	139	383
Management-related occupations	3,282	545	1,600	858	1,681	480
Accountants and auditors	1,186	533	550	644	638	483
Underwriters, and other financial officers	719	592	380	741	340	483
Management analysts	98	788	62	868	36	(¹)
Personnel, training, and labor relations specialists	360	582	144	695	216	508
Buyers, wholesale and retail trade, except farm products	159	483	73	581	86	393
Construction inspectors	68	579	64	587	4	(¹)
Inspectors and compliance officers, except construction	182	582	138	805	44	(¹)
Professional specialty	11,693	610	5,863	720	5,831	534
Engineers, architects, and surveyors	1,868	809	1,708	818	158	725
Architects	76	695	58	731	17	(¹)
Engineers	1,789	814	1,829	822	141	736
Aerospace engineers	104	830	97	855	7	(¹)
Chemical engineers	67	890	58	920	8	(¹)
Civil engineers	212	790	200	794	12	(¹)
Electrical and electronic engineers	566	848	520	858	49	(¹)
Industrial engineers	202	764	182	779	20	(¹)
Mechanical engineers	296	805	284	811	12	(¹)
Mathematical and computer scientists	808	734	510	803	298	631
Computer systems analysts and scientists	542	744	351	799	191	661
Operations and systems researchers and analysts	217	686	130	781	87	597
Natural scientists	357	661	281	691	96	613
Chemists, except biochemists	119	676	89	718	30	(¹)
Biological and life scientists	74	802	43	(¹)	32	(¹)
Health diagnosing occupations	316	824	232	920	83	685
Physicians	266	892	198	978	68	802
Health assessment and treating occupations	1,682	600	258	663	1,404	596
Registered nurses	1,181	608	76	616	1,104	608
Pharmacists	117	794	73	811	44	(¹)
Dietitians	71	454	7	(¹)	64	457
Therapists	234	536	61	587	173	521
Inhalation therapists	50	518	21	(¹)	29	(¹)
Physical therapists	56	525	18	(¹)	41	(¹)
Therapists, n.e.c.	58	477	17	(¹)	39	(¹)
Physicians' assistants	60	510	41	(¹)	19	(¹)
Teachers, college and university	540	747	376	808	164	620
Teachers, except college and university	3,175	522	913	594	2,263	505
Teachers, prekindergarten and kindergarten	298	344	6	(¹)	292	341
Teachers, elementary school	1,311	519	200	575	1,111	513
Teachers, secondary school	1,058	589	527	610	531	571
Teachers, special education	238	510	37	(¹)	202	506
Counselors, educational and vocational	183	595	75	695	108	563
Librarians, archivists, and curators	148	493	28	(¹)	120	484
Librarians	133	489	21	(¹)	112	479
Social scientists and urban planners	241	603	125	877	116	515
Economists	89	689	54	769	36	(¹)
Psychologists	119	553	52	605	68	514
Social, recreation, and religious workers	908	423	465	446	442	406
Social workers	496	445	163	483	333	427
Recreation workers	80	307	28	(¹)	52	288
Clergy	267	433	246	441	22	(¹)
Religious workers, n.e.c.	64	387	29	(¹)	35	(¹)
Lawyers and judges	417	1,052	306	1,164	111	834
Lawyers	390	1,045	285	1,176	105	675

See footnotes at end of table.

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56. Median weekly earnings of full-time wage and salary workers by detail occupation and sex

(Numbers in thousands)

Occupation	1990					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Writers, artists, entertainers, and athletes	1,072	\$499	604	\$581	468	\$423
Technical writers	58	673	33	(¹)	25	(¹)
Designers	338	500	188	616	150	381
Actors and directors	59	594	36	(¹)	23	(¹)
Painters, sculptors, craft artists, and artist printmakers	70	412	38	(¹)	33	(¹)
Photographers	51	410	35	(¹)	16	(¹)
Editors and reporters	208	513	108	588	100	452
Public relations specialists	134	581	56	623	79	524
Technical, sales, and administrative support	25,799	378	9,596	496	16,202	332
Technicians and related support	3,218	493	1,747	570	1,470	417
Health technologists and technicians	978	398	191	467	787	387
Clinical laboratory technologists and technicians	239	445	61	482	178	431
Health record technologists and technicians	70	342	5	(¹)	85	334
Radiologic technicians	97	481	24	(¹)	73	468
Licensed practical nurses	319	377	19	(¹)	299	377
Engineering and related technologists and technicians	895	509	730	532	165	398
Electrical and electronic technicians	339	533	288	552	53	449
Drafting occupations	247	499	204	520	43	(¹)
Surveying and mapping technicians	67	446	65	450	2	(¹)
Science technicians	203	475	143	501	60	400
Biological technicians	54	415	30	(¹)	24	(¹)
Chemical technicians	83	524	61	550	22	(¹)
Technicians, except health, engineering, and science	1,141	599	683	672	458	506
Airplane pilots and navigators	76	898	74	910	2	(¹)
Computer programmers	544	654	349	691	195	573
Legal assistants	194	475	39	(¹)	155	470
Sales occupations	8,197	401	4,666	505	3,531	292
Supervisors and proprietors	2,407	437	1,539	509	868	327
Sales representatives, finance and business services	1,558	514	870	639	687	418
Insurance sales	388	513	237	608	151	441
Real estate sales	341	507	161	686	180	405
Securities and financial services sales	225	707	164	805	61	528
Advertising and related sales	128	504	61	523	68	477
Sales occupations, other business services	475	469	247	598	228	376
Sales representatives, commodities, except retail	1,328	598	1,037	623	289	501
Sales workers, retail and personal services	2,885	258	1,210	336	1,676	219
Sales workers, motor vehicles and boats	242	464	222	479	19	(¹)
Sales workers, apparel	173	219	41	(¹)	132	211
Sales workers, furniture and home furnishings	99	345	57	413	42	(¹)
Sales workers, radio, television, hi-fi, and appliances	119	350	90	383	29	(¹)
Sales workers, hardware and building supplies	152	357	127	379	25	(¹)
Sales workers, parts	130	320	120	323	9	(¹)
Sales workers, other commodities	608	253	204	314	404	225
Sales counter clerks	101	269	33	(¹)	68	232
Cashiers	1,081	215	231	242	850	210
Street and door-to-door sales workers	114	311	45	(¹)	69	284
Administrative support, including clerical	14,384	350	3,183	440	11,202	332
Supervisors	745	497	322	595	424	448
General office	452	465	153	606	299	423
Financial records processing	87	494	23	(¹)	64	480
Distribution, scheduling, and adjusting clerks	160	545	113	558	47	(¹)
Computer equipment operators	688	374	242	446	446	348
Computer operators	681	374	240	450	441	348
Secretaries, stenographers, and typists	3,689	342	59	387	3,630	341
Secretaries	3,183	343	28	(¹)	3,154	343
Typists	470	327	23	(¹)	447	326
Information clerks	995	288	126	340	869	283
Interviewers	144	304	28	(¹)	116	300
Hotel clerks	64	234	23	(¹)	41	(¹)
Transportation ticket and reservation agents	99	394	41	(¹)	58	369
Receptionists	536	273	16	(¹)	520	272
Records processing, except financial	633	323	111	360	521	320
Order clerks	175	421	43	(¹)	132	415
Personnel clerks, except payroll and timekeeping	66	355	6	(¹)	60	352
Library clerks	58	281	7	(¹)	51	278
File clerks	188	283	32	(¹)	155	279
Records clerks	119	318	20	(¹)	99	316

See footnotes at end of table.

56. Median weekly earnings of full-time wage and salary workers by detail occupation and sex

(Numbers in thousands)

Occupation	1990					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Financial records processing	1,663	\$338	153	\$400	1,510	\$332
Bookkeepers, accounting, and auditing clerks	1,238	338	103	391	1,134	335
Payroll and timekeeping clerks	171	367	21	(¹)	150	355
Billing clerks	164	312	13	(¹)	151	307
Cost and rate clerks	56	346	11	(¹)	45	(¹)
Duplicating, mail and other office machine operators	55	290	22	(¹)	33	(¹)
Communications equipment operators	179	319	26	(¹)	153	313
Telephone operators	170	319	22	(¹)	148	313
Mail and message distributing	796	514	546	520	250	499
Postal clerks, except mail carriers	283	552	157	546	106	559
Mail carriers, postal service	306	554	241	562	65	525
Mail clerks, except postal service	135	300	78	321	60	268
Messengers	92	315	73	313	19	(¹)
Material recording, scheduling, and distributing clerks, n.e.c.	1,576	356	935	385	641	325
Dispatchers	201	381	93	480	107	325
Production coordinators	190	494	97	582	93	434
Traffic, shipping, and receiving clerks	468	323	345	339	122	288
Stock and inventory clerks	494	348	286	373	208	326
Weighers, measurers, and checkers	72	373	41	(¹)	32	(¹)
Expeditors	91	325	33	(¹)	59	303
Adjusters and investigators	978	364	242	477	736	364
Insurance adjusters, examiners, and investigators	316	407	81	511	235	376
Investigators and adjusters, except insurance	464	379	116	456	348	358
Eligibility clerks, social welfare	82	359	9	(¹)	73	354
Bill and account collectors	117	366	37	(¹)	79	364
Miscellaneous administrative support occupations	2,388	319	398	388	1,990	311
General office clerks	553	323	109	355	444	319
Bank tellers	302	273	22	(¹)	280	270
Data-entry keyers	406	316	52	379	354	312
Statistical clerks	77	427	24	(¹)	53	373
Teachers' aides	232	246	7	(¹)	225	246
Service occupations	9,007	268	4,476	320	4,531	230
Private household	310	172	12	(¹)	298	171
Child care workers	139	132	2	(¹)	137	134
Cleaners and servants	142	190	7	(¹)	135	189
Protective services	1,738	488	1,523	477	216	405
Supervisors	171	615	156	637	16	(¹)
Police and detectives	87	645	77	676	9	(¹)
Firefighting and fire prevention	207	590	201	594	6	(¹)
Firefighting	195	595	192	596	3	(¹)
Police and detectives	809	507	700	512	109	483
Police and detectives, public service	465	559	411	589	54	519
Sheriffs, bailiffs, and other law enforcement officers	103	445	90	454	12	(¹)
Correctional institution officers	241	449	199	448	42	(¹)
Guards	550	304	466	309	85	263
Guards and police, except public service	521	307	450	310	71	274
Service occupations, except private household and protective	8,959	248	2,942	273	4,017	231
Food preparation and service occupations	2,645	220	1,283	243	1,362	206
Supervisors	222	285	95	346	127	245
Barenders	170	248	81	276	89	226
Waiters and waitresses	596	208	150	266	446	194
Cooks, except short order	1,002	226	585	248	417	206
Food counter, fountain, and related occupations	99	184	32	(¹)	67	178
Kitchen workers, food preparation	58	215	15	(¹)	43	(¹)
Waiters' and waitresses' assistants	144	206	101	205	42	(¹)
Miscellaneous food preparation occupations	317	209	183	205	134	215
Health service occupations	1,470	263	164	300	1,306	260
Dental assistants	107	300	1	(¹)	106	300
Health aides, except nursing	320	287	57	314	263	281
Nursing aides, orderlies, and attendants	1,043	251	105	284	937	248
Cleaning and building service occupations	2,038	272	1,306	299	730	232
Supervisors	137	365	92	417	45	(¹)
Maids and housemen	423	220	98	279	325	211
Janitors and cleaners	1,437	280	1,079	294	358	248
Personal service occupations	808	252	209	297	599	239
Hairdressers and cosmetologists	240	247	26	(¹)	214	239
Attendants, amusement and recreation facilities	77	228	45	(¹)	32	(¹)
Public transportation attendants	51	635	10	(¹)	41	(¹)
Welfare service aides	57	253	7	(¹)	50	245
Child care workers	184	203	14	(¹)	169	200

See footnotes at end of table.

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56. Median weekly earnings of full-time wage and salary workers by detail occupation and sex

(Numbers in thousands)

Occupation	1990					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Precision production, craft, and repair	11,062	\$477	10,169	\$488	893	\$316
Mechanics and repairers	3,808	476	3,689	477	139	459
Supervisors	238	586	220	594	18	(¹)
Mechanics and repairers, except supervisors	3,571	469	3,450	470	121	450
Vehicle and mobile equipment mechanics and repairers	1,422	425	1,411	425	10	(¹)
Automobile mechanics	649	393	646	393	3	(¹)
Bus, truck, and stationary engine mechanics	284	458	283	458	1	(¹)
Aircraft engine mechanics	102	576	100	582	2	(¹)
Automobile body and related repairers	138	403	138	403	-	-
Heavy equipment mechanics	153	509	151	511	1	(¹)
Industrial machinery repairers	491	480	475	482	16	(¹)
Electrical and electronic equipment repairers	633	563	576	576	56	499
Electronic repairers, communications and industrial equipment	151	472	137	485	14	(¹)
Data processing equipment repairers	149	585	135	603	15	(¹)
Telephone line installers and repairers	61	602	56	611	5	(¹)
Telephone installers and repairers	181	626	163	629	18	(¹)
Miscellaneous electrical and electronic equipment repairers	57	502	53	510	4	(¹)
Heating, air conditioning, and refrigeration mechanics	210	447	210	446	1	(¹)
Miscellaneous mechanics and repairers	797	462	761	467	37	(¹)
Office machine repairers	76	452	71	448	5	(¹)
Millwrights	89	550	88	547	1	(¹)
Construction trades	3,653	479	3,603	480	50	394
Supervisors	486	590	461	592	5	(¹)
Construction trades, except supervisors	3,167	457	3,122	459	44	(¹)
Brickmasons and stonemasons	134	506	134	506	-	-
Carpet installers	51	376	50	380	1	(¹)
Carpenters	861	412	849	413	11	(¹)
Drywall installers	110	443	108	440	1	(¹)
Electricians	605	524	596	526	9	(¹)
Electrical power installers and repairers	115	593	112	595	3	(¹)
Painters, construction and maintenance	284	382	274	386	10	(¹)
Plumbers, pipefitters, steamfitters, and apprentices	366	508	363	508	3	(¹)
Concrete and terrazzo finishers	59	414	59	414	-	-
Insulation workers	51	436	50	431	1	(¹)
Roofers	137	341	137	341	-	-
Structural metalworkers	52	569	52	569	-	-
Extractive occupations	142	582	141	584	1	(¹)
Precision production occupations	3,459	470	2,755	508	703	300
Supervisors	1,306	546	1,104	586	202	363
Precision metalworking occupations	823	497	786	502	37	(¹)
Tool and die makers	148	557	145	563	3	(¹)
Machinists	464	486	448	491	16	(¹)
Sheet metal workers	113	493	105	496	7	(¹)
Precision woodworking occupations	54	356	47	(¹)	8	(¹)
Precision textile, apparel, and furnishings machine workers	118	296	56	356	61	249
Precision workers, assorted materials	448	313	194	376	255	291
Electrical and electronic equipment assemblers	278	298	93	342	185	266
Precision food production occupations	336	308	235	374	101	239
Butchers and meat cutters	221	314	172	378	49	(¹)
Bakers	82	304	49	(¹)	33	(¹)
Precision inspectors, testers, and related workers	110	580	81	557	29	(¹)
Inspectors, testers, and graders	102	504	76	549	26	(¹)
Plant and system operators	263	546	251	553	11	(¹)
Water and sewage treatment plant operators	58	467	57	466	1	(¹)
Stationary engineers	110	562	105	567	4	(¹)
Operators, fabricators, and laborers	14,932	339	11,257	378	3,675	262
Machine operators, assemblers, and inspectors	7,350	325	4,510	391	2,640	260
Machine operators and tenders, except precision	4,849	313	2,936	381	1,913	247
Metalworking and plastic working machine operators	421	403	352	430	69	311
Lathe and turning machine operators	55	406	51	428	4	(¹)
Punching and stamping press machine operators	107	354	79	408	28	(¹)
Grinding, abrading, buffing, and polishing machine operators	120	410	103	427	17	(¹)
Metal and plastic processing machine operators	160	352	131	382	29	(¹)
Molding and casting machine operators	94	326	70	379	24	(¹)
Woodworking machine operators	149	295	131	297	18	(¹)
Sawing machine operators	100	292	88	294	12	(¹)
Printing machine operators	396	409	301	431	97	309
Printing machine operators	279	410	239	424	39	(¹)

See footnotes at end of table.

56. Median weekly earnings of full-time wage and salary workers by detail occupation and sex

(Numbers in thousands)

Occupation	1990					
	Both sexes		Men		Women	
	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings	Number of workers	Median weekly earnings
Textile, apparel, and furnishings machine operators	1,133	\$228	242	\$295	691	\$217
Winding and twisting machine operators	72	289	20	(¹)	52	289
Textile sewing machine operators	663	214	78	255	585	211
Pressing machine operators	105	222	34	(¹)	71	211
Laundering and dry cleaning machine operators	142	220	44	(¹)	99	207
Miscellaneous textile machine operators	71	293	41	(¹)	30	(¹)
Machine operators, assorted materials	2,568	336	1,766	381	802	271
Packaging and filling machine operators	408	264	164	296	244	250
Mixing and blending machine operators	113	372	102	378	11	(¹)
Separating, filtering, and clarifying machine operators	64	523	56	525	9	(¹)
Painting and paint spraying machine operators	182	385	158	400	25	(¹)
Furnace, kiln, and oven operators, exc. food	103	467	98	475	5	(¹)
Slicing and cutting machine operators	189	319	148	357	41	(¹)
Photographic process machine operators	77	315	39	(¹)	38	(¹)
Fabricators, assemblers, and hand working occupations	1,704	352	1,178	398	526	282
Welders and cutters	552	423	527	428	25	(¹)
Assemblers	1,010	320	578	370	432	287
Production inspectors, testers, samplers, and weighers	797	363	396	461	402	300
Production inspectors, checkers, and examiners	646	375	316	483	330	304
Production testers	55	435	33	(¹)	22	(¹)
Graders and sorters, except agricultural	91	273	43	(¹)	48	(¹)
Transportation and material moving occupations	3,948	413	3,721	418	227	314
Motor vehicle operators	2,792	402	2,604	409	188	305
Supervisors, motor vehicle operators	65	521	53	552	12	(¹)
Truckdrivers, heavy	1,614	430	1,586	432	28	(¹)
Truckdrivers, light	570	321	533	323	38	(¹)
Drivers--sales workers	172	438	162	448	10	(¹)
Bus drivers	226	354	138	405	89	305
Taxicab drivers and chauffeurs	110	308	101	314	10	(¹)
Transportation occupations, except motor vehicles	159	686	156	686	3	(¹)
Rail transportation	107	717	104	716	3	(¹)
Water transportation occupations	52	547	52	550	-	-
Material moving equipment operators	996	415	961	417	35	(¹)
Operating engineers	215	504	213	506	2	(¹)
Crane and tower operators	91	477	89	479	2	(¹)
Excavating and loading machine operators	79	431	79	431	-	-
Grader, dozer, and scraper operators	86	409	85	409	1	(¹)
Industrial truck and tractor equipment operators	420	373	398	371	22	(¹)
Miscellaneous material moving equipment operators	68	404	60	422	8	(¹)
Handlers, equipment cleaners, helpers, and laborers	3,635	298	3,027	308	608	250
Helpers, construction and extractive occupations	117	277	113	279	4	(¹)
Helpers, construction trades	107	272	103	274	4	(¹)
Construction laborers	666	347	647	348	19	(¹)
Production helpers	74	314	64	313	10	(¹)
Freight, stock, and material handlers	1,053	288	857	302	196	227
Stock handlers and baggers	427	228	309	242	118	209
Machine feeders and oilbearers	75	280	50	309	24	(¹)
Garage and service station related occupations	147	235	144	237	4	(¹)
Vehicle washers and equipment cleaners	176	249	152	251	24	(¹)
Hand packers and packagers	255	258	100	262	154	255
Laborers, except construction	1,112	309	918	320	194	258
Farming, forestry, and fishing	1,423	257	1,253	263	171	216
Farm operators and managers	69	348	58	360	11	(¹)
Farm managers	61	363	53	369	8	(¹)
Other agricultural and related occupations	1,265	250	1,109	256	156	212
Farm occupations except managerial	628	233	542	239	86	206
Farm workers	561	229	492	234	70	202
Related agricultural occupations	637	271	566	278	70	222
Supervisors, related agricultural	64	392	60	394	4	(¹)
Groundskeepers and gardeners, except farm	500	287	478	267	22	(¹)
Animal caretakers, except farm	52	228	21	(¹)	31	(¹)
Forestry and logging occupations	74	314	71	313	3	(¹)
Timber cutting and logging	53	314	52	313	1	(¹)

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

NOTE: N.E.C. is an abbreviation for "not elsewhere classified" and designates

broad categories of occupations which cannot be more specifically identified.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

57. Employed wage and salary workers by age, sex, race, Hispanic origin, full- or part-time status, and union affiliation

(Numbers in thousands)

Age, sex, race, Hispanic origin, and full- or part-time status	1989					1990				
	Total em- ployed	Members of unions ¹		Represented by unions ²		Total em- ployed	Members of unions ¹		Represented by unions ²	
		Total	Percent of em- ployed	Total	Percent of em- ployed		Total	Percent of em- ployed	Total	Percent of em- ployed
SEX AND AGE										
Total, 16 years and over	103,480	16,960	16.4	19,198	18.6	103,905	16,740	16.1	19,058	18.3
16 to 24 years	19,154	1,203	6.3	1,424	7.4	18,337	1,178	6.4	1,410	7.7
25 years and over	84,325	15,757	18.7	17,773	21.1	85,568	15,562	18.2	17,648	20.6
25 to 34 years	31,210	4,471	14.3	5,150	16.5	30,972	4,336	14.0	4,991	16.1
35 to 44 years	25,316	5,292	20.9	5,975	23.6	26,411	5,323	20.2	6,023	22.8
45 to 54 years	16,233	3,719	22.9	4,134	25.5	16,558	3,685	22.3	4,138	25.0
55 to 65 years	9,302	2,056	22.1	2,272	24.4	9,279	2,008	21.6	2,254	24.3
65 years and over	2,265	220	9.7	243	10.7	2,348	209	8.9	243	10.3
Men, 16 years and over	54,789	10,820	19.7	11,955	21.8	54,828	10,564	19.3	11,731	21.4
16 to 24 years	9,892	775	7.8	899	9.1	9,503	771	8.1	900	9.5
25 years and over	44,897	10,045	22.4	11,056	24.6	45,325	9,793	21.6	10,831	23.9
25 to 34 years	17,056	2,899	17.0	3,237	19.0	16,824	2,778	16.5	3,119	18.5
35 to 44 years	13,201	3,297	25.0	3,647	27.6	13,797	3,278	23.8	3,605	26.1
45 to 54 years	8,518	2,363	28.0	2,583	30.3	8,582	2,335	27.2	2,557	29.8
55 to 65 years	4,965	1,344	27.1	1,455	29.3	4,961	1,297	26.2	1,425	28.7
65 years and over	1,157	121	10.5	133	11.5	1,162	104	9.0	124	10.7
Women, 16 years and over	48,691	6,141	12.6	7,243	14.9	49,077	6,175	12.6	7,327	14.9
16 to 24 years	9,262	428	4.6	525	5.7	8,834	407	4.6	509	5.8
25 years and over	39,428	5,712	14.5	6,717	17.0	40,243	5,768	14.3	6,817	16.9
25 to 34 years	14,153	1,571	11.1	1,913	13.5	14,148	1,558	11.0	1,872	13.2
35 to 44 years	12,114	1,995	16.5	2,327	19.2	12,614	2,044	16.2	2,417	19.2
45 to 54 years	7,715	1,335	17.3	1,550	20.1	7,976	1,350	16.9	1,581	19.8
55 to 64 years	4,337	712	16.4	817	18.8	4,318	711	16.5	828	19.2
65 years and over	1,108	99	8.9	110	9.9	1,186	105	8.8	119	10.0
RACE, HISPANIC ORIGIN, AND SEX										
White, 16 years and over	88,622	13,894	15.7	15,689	17.7	89,120	13,798	15.5	15,669	17.6
Men	47,410	9,140	19.3	10,055	21.2	47,515	8,914	18.8	9,865	20.8
Women	41,212	4,754	11.5	5,634	13.7	41,605	4,884	11.7	5,805	14.0
Black, 16 years and over	11,470	2,549	22.2	2,912	25.4	11,416	2,410	21.1	2,771	24.3
Men	5,597	1,387	24.8	1,566	28.0	5,541	1,350	24.4	1,523	27.5
Women	5,873	1,162	19.8	1,345	22.9	5,875	1,060	18.0	1,248	21.2
Hispanic origin, 16 years and over	7,894	1,196	15.2	1,330	16.8	8,181	1,209	14.8	1,348	16.5
Men	4,710	783	16.8	870	18.5	4,869	794	16.3	876	18.0
Women	3,184	403	12.6	460	14.5	3,312	415	12.5	472	14.2
FULL- OR PART-TIME STATUS³										
Full-time workers	84,553	15,701	18.6	17,683	20.9	85,082	15,422	18.1	17,469	20.5
Part-time workers	18,926	1,259	6.7	1,515	8.0	18,822	1,318	7.0	1,589	8.4

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

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

³ The distinction between full- and part-time workers is based on hours usually worked.

NOTE: Data refer to the sole or principal job of full- and part-time workers. Excluded are self-employed workers whose businesses are incorporated although they technically qualify as wage and salary workers. 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.

58. Employed wage and salary workers by occupation, industry, and union affiliation

(Numbers in thousands)

Occupation and industry	1989					1990				
	Total employed	Members of unions ¹		Represented by unions ²		Total employed	Members of unions ¹		Represented by unions ²	
		Total	Percent of employed	Total	Percent of employed		Total	Percent of employed	Total	Percent of employed
OCCUPATION										
Managerial and professional specialty	25,357	3,739	14.7	4,606	18.2	25,671	3,674	14.3	4,572	17.8
Executive, administrative, and managerial	11,950	742	6.2	984	8.2	11,805	709	6.0	963	8.2
Professional specialty	13,408	2,997	22.4	3,622	27.0	13,866	2,965	21.4	3,609	26.0
Technical, sales, and administrative support	32,633	3,299	10.1	3,932	12.1	33,292	3,462	10.4	4,122	12.4
Technicians and related support	3,511	423	12.0	502	14.3	3,744	431	11.5	535	14.3
Sales occupations	11,354	574	5.1	670	5.9	11,522	580	5.0	678	5.9
Administrative support, including clerical	17,768	2,302	13.0	2,760	15.5	18,026	2,451	13.6	2,909	16.1
Service occupations	14,410	1,948	13.5	2,172	15.1	14,400	1,989	13.8	2,241	15.6
Protective service	1,955	750	38.3	816	41.8	1,940	755	38.9	840	43.3
Service, except protective service	12,455	1,198	9.6	1,356	10.9	12,460	1,235	9.9	1,401	11.2
Precision production, craft and repair	11,906	3,134	26.3	3,355	28.2	11,616	3,011	25.9	3,227	27.8
Operators, fabricators, and laborers	17,399	4,774	27.4	5,050	29.0	17,114	4,514	26.4	4,795	28.0
Machine operators, assemblers, and inspectors	8,025	2,308	28.8	2,432	30.3	7,840	2,124	27.1	2,246	28.6
Transportation and material moving occupations	4,572	1,321	28.9	1,405	30.7	4,484	1,283	28.6	1,376	30.7
Handlers, equipment cleaners, helpers, and laborers	4,802	1,146	23.9	1,214	25.3	4,789	1,107	23.1	1,173	24.5
Farming, forestry, and fishing	1,774	67	3.8	82	4.6	1,812	89	4.9	100	5.5
INDUSTRY										
Agricultural wage and salary workers	1,499	18	1.2	31	2.1	1,530	29	1.9	33	2.1
Private nonagricultural wage and salary workers	84,504	10,520	12.4	11,556	13.7	84,610	10,227	12.1	11,336	13.4
Mining	664	117	17.5	131	19.7	675	121	18.0	136	20.2
Construction	5,322	1,145	21.5	1,203	22.6	5,122	1,073	21.0	1,137	22.2
Manufacturing	20,690	4,467	21.6	4,779	23.1	20,339	4,197	20.6	4,514	22.2
Durable goods	12,194	2,816	23.1	3,010	24.7	12,089	2,667	22.1	2,864	23.7
Non-durable goods	8,496	1,651	19.4	1,769	20.8	8,249	1,531	18.6	1,650	20.0
Transportation and public utilities	6,109	1,927	31.6	2,083	34.1	6,124	1,934	31.6	2,091	34.1
Transportation	3,535	1,047	29.6	1,105	31.3	3,517	1,031	29.3	1,093	31.1
Communications and public utilities	2,573	881	34.2	978	38.0	2,608	903	34.6	998	38.3
Wholesale and retail trade	21,136	1,321	6.3	1,478	7.0	21,274	1,338	6.3	1,493	7.0
Wholesale trade	3,939	269	6.8	308	7.8	3,993	261	6.5	293	7.3
Retail trade	17,198	1,052	6.1	1,170	6.8	17,281	1,077	6.2	1,200	6.9
Finance, insurance, and real estate	6,851	155	2.3	209	3.1	6,835	173	2.5	233	3.4
Services	23,731	1,388	5.8	1,673	7.0	24,241	1,391	5.7	1,731	7.1
Government workers	17,476	6,422	36.7	7,611	43.6	17,765	6,484	36.5	7,689	43.3

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

² Data refer to members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but

whose jobs are covered by a union or an employee association contract.

NOTE: Data refer to the sole or principal job of full- and part-time workers. Excluded are self-employed workers whose businesses are incorporated although they technically qualify as wage and salary workers.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

59. Median weekly earnings of full-time wage and salary workers by age, sex, race, Hispanic origin, and union affiliation

Age, sex, race, and Hispanic origin	1989				1990			
	Total	Members of unions ¹	Represented by unions ²	Non-union	Total	Members of unions ¹	Represented by unions ²	Non-union
SEX AND AGE								
Total, 16 years and over	\$399	\$497	\$494	\$372	\$415	\$509	\$507	\$390
16 to 24 years	259	335	331	252	269	348	343	263
25 years and over	427	505	502	403	450	518	516	420
25 to 34 years	394	473	466	378	408	483	479	395
35 to 44 years	472	519	518	438	487	538	534	463
45 to 54 years	472	523	523	431	488	552	553	453
55 to 65 years	431	504	504	401	456	514	514	418
65 years and over	334	478	470	306	343	493	491	317
Men, 16 years and over	468	527	524	430	485	542	541	457
16 to 24 years	271	359	356	262	283	370	365	274
25 years and over	500	539	538	483	514	556	557	499
25 to 34 years	434	500	496	415	452	508	506	432
35 to 44 years	542	561	561	527	563	577	577	552
45 to 54 years	569	569	570	567	592	590	594	590
55 to 65 years	521	542	543	510	545	555	557	532
65 years and over	393	575	565	358	402	508	508	380
Women, 16 years and over	328	417	416	312	348	448	444	326
16 to 24 years	246	297	299	242	254	312	309	250
25 years and over	351	425	424	330	370	459	456	349
25 to 34 years	340	407	403	327	357	419	416	345
35 to 44 years	370	452	453	345	391	487	483	366
45 to 54 years	357	444	445	329	377	476	474	351
55 to 64 years	333	400	405	312	348	429	432	324
65 years and over	292	387	382	267	300	478	474	280
RACE, HISPANIC ORIGIN, AND SEX								
White, 16 years and over	409	506	503	364	427	521	518	402
Men	482	539	537	452	497	557	557	477
Women	334	427	423	317	355	461	456	335
Black, 16 years and over	319	425	423	290	329	440	434	302
Men	348	478	470	305	360	476	471	318
Women	301	385	390	276	308	404	403	286
Hispanic origin, 16 years and over	298	420	417	276	307	425	422	288
Men	315	457	451	291	322	464	460	301
Women	269	369	368	255	280	367	367	266

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

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

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

Excluded are self-employed workers whose businesses are incorporated although they technically qualify as wage and salary workers. 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.

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

Occupation and industry	1989				1990			
	Total	Members of unions ¹	Repre- sented by unions ²	Non- union	Total	Members of unions ¹	Repre- sented by unions ²	Non- union
OCCUPATION								
Managerial and professional specialty	\$583	\$584	\$581	\$584	\$608	\$610	\$608	\$608
Executive, administrative, and managerial	579	581	584	579	604	816	616	603
Professional specialty	586	585	581	589	610	609	606	613
Technical, sales, and administrative support	359	439	431	346	378	466	455	365
Technicians and related support	475	514	511	465	493	549	549	484
Sales occupations	384	388	391	384	401	406	406	401
Administrative support, including clerical	331	435	425	316	350	460	445	331
Service occupations	253	411	406	226	268	418	412	241
Protective service	445	575	574	340	468	583	579	382
Service, except protective service	230	329	323	217	245	344	338	229
Precision production, craft and repair	454	574	568	405	477	586	582	422
Operators, fabricators, and laborers	323	455	448	287	339	466	460	300
Machine operators, assemblers, and inspectors	313	419	415	281	325	441	437	293
Transportation and material moving occupations	402	520	515	346	413	529	521	368
Handlers, equipment cleaners, helpers, and laborers	288	425	420	252	298	421	418	267
Farming, forestry, and fishing	246	393	379	239	257	373	373	251
INDUSTRY								
Agricultural wage and salary workers	249	(³)	(³)	246	260	(³)	(³)	259
Private nonagricultural wage and salary workers	387	\$489	\$485	368	403	\$496	\$493	386
Mining	565	572	572	561	565	587	583	553
Construction	431	642	634	393	458	653	642	407
Manufacturing	415	460	458	400	430	474	475	414
Durable goods	445	477	477	428	463	487	488	449
Nondurable goods	373	419	417	356	389	437	435	374
Transportation and public utilities	502	567	561	458	515	576	571	485
Transportation	475	583	579	403	488	583	579	423
Communications and public utilities	535	547	539	530	570	565	562	580
Wholesale and retail trade	305	407	402	298	319	410	406	313
Wholesale trade	412	477	478	406	442	475	471	438
Retail trade	276	381	375	270	292	390	384	286
Finance, insurance, and real estate	406	400	399	407	428	410	408	430
Services	357	398	402	352	378	413	418	373
Government workers	472	509	506	419	490	531	526	438

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

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

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

NOTE: Data refer to the sole or principal job of full-time workers. Excluded are self-employed workers whose businesses are incorporated although they technically qualify as wage and salary workers.

**HOUSEHOLD DATA
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61. Absences from work of employed full-time wage and salary workers by age, sex, marital status, and presence and age of children

(Numbers in thousands)

Age, sex, marital status, and presence and age of youngest child	1990						
	Total employed	Absence rate ¹			Lost worktime rate ²		
		Total	Illness	Other reasons	Total	Illness	Other reasons
Total, 16 years and over	85,082	4.8	2.7	2.1	2.8	1.7	1.1
16 to 19 years	2,075	6.4	2.6	3.8	2.9	1.2	1.8
20 to 24 years	9,240	5.1	2.4	2.7	2.6	1.3	1.4
25 years and over	73,768	4.7	2.8	2.0	2.8	1.7	1.1
25 to 54 years	65,115	4.7	2.6	2.0	2.7	1.6	1.1
55 years and over	8,653	5.3	3.5	1.8	3.4	2.5	.9
Men, 16 years and over	49,015	3.8	2.3	1.5	2.3	1.5	.8
16 to 19 years	1,211	5.6	1.9	3.6	2.8	1.0	1.9
20 to 24 years	5,102	4.0	1.9	2.1	2.0	1.1	.9
25 years and over	42,702	3.7	2.3	1.4	2.3	1.5	.8
25 to 54 years	37,579	3.6	2.2	1.4	2.2	1.4	.8
55 years and over	5,123	4.9	3.3	1.6	3.3	2.4	.9
Women, 16 years and over	36,068	6.2	3.3	2.9	3.6	2.0	1.6
16 to 19 years	864	7.5	3.5	4.0	3.1	1.5	1.6
20 to 24 years	4,138	6.5	3.0	3.5	3.5	1.5	1.9
25 years and over	31,066	6.1	3.4	2.8	3.6	2.1	1.5
25 to 54 years	27,536	6.2	3.3	2.9	3.6	2.0	1.6
55 years and over	3,530	5.9	3.9	2.0	3.5	2.5	.9
Married men, spouse present ³	31,933	3.7	2.3	1.4	2.3	1.5	.8
With no children under 18 years	13,035	4.1	2.7	1.4	2.6	1.8	.8
Youngest child, 6 to 17 years	9,402	3.4	2.0	1.4	2.1	1.4	.8
Youngest child, under 6 years	9,496	3.4	2.0	1.5	2.0	1.2	.8
All other men ³	17,082	4.0	2.2	1.8	2.3	1.4	.9
With no children under 18 years	16,211	3.9	2.2	1.8	2.2	1.3	.9
Youngest child, 6 to 17 years	521	4.3	3.0	1.3	3.1	2.4	.7
Youngest child, under 6 years	350	5.5	3.0	2.5	3.6	1.8	1.7
Married women, spouse present ³	19,264	6.6	3.2	3.4	3.9	2.0	1.9
With no children under 18 years	9,639	5.4	3.3	2.1	3.0	2.0	1.0
Youngest child, 6 to 17 years	5,586	5.6	3.0	2.6	3.0	1.8	1.2
Youngest child, under 6 years	4,039	11.0	3.5	7.5	7.4	2.2	5.2
All other women ³	16,803	5.8	3.4	2.3	3.1	2.0	1.2
With no children under 18 years	13,506	5.4	3.3	2.1	2.9	1.9	1.0
Youngest child, 6 to 17 years	2,295	6.4	3.7	2.7	3.6	2.2	1.4
Youngest child, under 6 years	1,002	8.6	4.4	4.3	5.3	2.7	2.6

¹ Absences refer to work missed due to illnesses or other personal reasons. Excluded is work missed due to vacation, holiday, labor-management dispute, or bad weather resulting in an employer temporarily curtailing business activity. The absence rate is the ratio of workers with absences to total full-time employment. To be counted as having had an absence, a person who usually works 35 hours or more

per week must have been at work fewer than 35 hours or have not been at work at all during the survey reference week.

² Hours absent as a percent of total hours usually worked.

³ Because of differences in definitions, estimates by marital status in this table are somewhat different from family relationship estimates shown in other tables for full-time wage and salary workers.

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

(Numbers in thousands)

Occupation and industry	1990						
	Total employed	Absence rate ¹			Lost worktime rate ²		
		Total	Illness	Other reasons	Total	Illness	Other reasons
OCCUPATION							
Managerial and professional specialty	22,858	4.1	1.9	2.2	2.3	1.1	1.2
Executive, administrative, and managerial	11,165	3.6	1.9	1.7	2.0	1.1	.9
Professional specialty	11,693	4.6	2.0	2.6	2.5	1.1	1.5
Technical, sales, and administrative support	25,799	4.8	2.7	2.1	2.6	1.5	1.1
Technicians and related support	3,218	4.7	2.6	2.1	2.5	1.4	1.1
Sales occupations	8,197	3.9	2.1	1.8	2.0	1.2	.8
Administrative support, including clerical	14,384	5.3	3.1	2.2	3.0	1.8	1.2
Service occupations	9,007	6.0	3.3	2.7	3.5	2.1	1.3
Precision production, craft and repair	11,062	4.5	2.8	1.7	2.8	1.9	.9
Operators, fabricators, and laborers	14,932	5.6	3.5	2.1	3.7	2.4	1.2
Farming, forestry, and fishing	1,423	4.0	2.2	1.8	2.8	1.8	1.0
INDUSTRY							
Agricultural wage and salary workers	1,212	3.8	1.5	2.3	2.4	1.3	1.2
Private nonagricultural wage and salary workers	68,884	4.7	2.7	2.0	2.8	1.7	1.1
Mining	659	5.2	2.4	2.9	3.8	1.5	2.3
Construction	4,703	4.9	2.9	2.0	3.2	2.0	1.2
Manufacturing	19,438	4.6	2.9	1.7	2.8	1.9	.9
Durable goods	11,730	4.6	2.9	1.7	2.8	1.9	.9
Nondurable goods	7,708	4.7	2.9	1.7	2.9	1.9	1.0
Transportation and public utilities	5,574	4.8	2.9	1.9	3.4	2.1	1.3
Transportation	3,049	5.2	3.2	2.0	4.0	2.5	1.5
Communications and other public utilities	2,525	4.4	2.6	1.9	2.7	1.6	1.1
Wholesale and retail trade	14,565	4.4	2.3	2.1	2.4	1.4	1.0
Wholesale trade	3,659	3.1	1.9	1.1	1.8	1.1	.7
Retail trade	10,906	4.9	2.5	2.4	2.6	1.5	1.1
Finance, insurance, and real estate	6,067	4.1	2.3	1.8	2.4	1.4	1.0
Services	17,878	5.1	2.7	2.4	2.7	1.5	1.2
Government workers	14,987	5.5	3.0	2.5	3.1	1.7	1.3

¹ Absences refer to work missed due to illnesses or other personal reasons. Excluded is work missed due to vacation, holiday, labor-management dispute, or bad weather resulting in an employer temporarily curtailing business activity. The absence rate is the ratio of workers with absences to total full-time employment. To be counted as

having had an absence, a person who usually works 35 hours or more per week must have been at work fewer than 35 hours or have not been at work at all during the survey reference week.

² Hours absent as a percent of total hours usually worked.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
ANNUAL AVERAGES**

63. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Total United States		Metropolitan areas					
	1989	1990	Total		Central cities		Suburbs	
			1989	1990	1989	1990	1989	1990
TOTAL								
Civilian noninstitutional population	186,393	188,049	144,911	146,144	57,094	57,508	87,817	88,636
Civilian labor force	123,869	124,787	97,660	98,468	37,045	37,231	60,616	61,237
Percent of population	66.5	66.4	67.4	67.4	64.9	64.7	69.0	69.1
Employed	117,342	117,914	92,624	93,148	34,567	34,731	58,057	58,417
Unemployed	6,528	6,874	5,038	5,320	2,476	2,500	2,559	2,620
Unemployment rate	5.3	5.5	5.2	5.4	6.7	6.7	4.2	4.6
Not in labor force	62,523	63,262	47,250	47,677	20,049	20,277	27,201	27,399
Men, 20 years and over								
Civilian noninstitutional population	81,619	82,704	63,498	64,316	24,544	24,881	38,954	39,435
Civilian labor force	63,704	64,388	50,199	50,766	18,727	18,974	31,472	31,794
Percent of population	78.1	77.8	79.1	78.9	76.3	76.3	80.8	80.6
Employed	60,837	61,198	47,986	48,304	17,806	17,786	30,380	30,519
Unemployed	2,867	3,170	2,212	2,464	1,121	1,188	1,092	1,276
Unemployment rate	4.5	4.9	4.4	4.9	6.0	6.3	3.5	4.0
Not in labor force	17,915	18,336	13,299	13,548	5,817	5,907	7,482	7,641
Women, 20 years and over								
Civilian noninstitutional population	90,550	91,552	70,469	71,269	28,410	28,625	42,059	42,643
Civilian labor force	52,212	53,010	41,349	42,071	16,175	16,334	25,174	25,737
Percent of population	57.7	57.9	58.7	59.0	58.9	57.1	59.9	60.4
Employed	49,745	50,455	39,437	40,087	15,236	15,402	24,201	24,684
Unemployed	2,467	2,555	1,912	1,984	940	932	972	1,052
Unemployment rate	4.7	4.8	4.6	4.7	5.8	5.7	3.9	4.1
Not in labor force	38,339	38,542	29,120	29,198	12,235	12,291	16,885	18,907
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,223	13,794	10,944	10,560	4,140	4,002	6,804	6,558
Civilian labor force	7,954	7,410	6,113	5,629	2,143	1,923	3,970	3,706
Percent of population	55.9	53.7	55.9	53.3	51.8	48.0	58.4	56.5
Employed	6,759	6,261	5,201	4,757	1,725	1,543	3,475	3,214
Unemployed	1,194	1,149	912	872	417	380	495	492
Unemployment rate	15.0	15.5	14.9	15.5	19.5	19.8	12.5	13.3
Not in labor force	6,270	6,385	4,831	4,931	1,997	2,079	2,834	2,852
White								
Civilian noninstitutional population	159,338	160,415	122,183	122,840	42,501	42,618	79,682	80,221
Civilian labor force	106,355	107,177	82,699	83,422	27,902	28,125	54,797	55,297
Percent of population	66.7	66.8	67.7	67.9	65.6	66.0	68.8	68.9
Employed	101,584	102,087	79,123	79,580	26,457	26,657	52,666	52,923
Unemployed	4,770	5,091	3,576	3,841	1,444	1,468	2,131	2,374
Unemployment rate	4.5	4.7	4.3	4.6	5.2	5.2	3.9	4.3
Not in labor force	52,983	53,237	39,484	39,418	14,599	14,493	24,865	24,924
Black								
Civilian noninstitutional population	21,021	21,300	17,465	17,764	11,952	12,072	5,513	5,692
Civilian labor force	13,497	13,493	11,396	11,405	7,422	7,348	3,974	4,059
Percent of population	64.2	63.3	65.3	64.2	62.1	60.9	72.1	71.3
Employed	11,953	11,966	10,104	10,128	6,477	6,427	3,627	3,700
Unemployed	1,544	1,527	1,292	1,277	945	918	347	359
Unemployment rate	11.4	11.3	11.3	11.2	12.7	12.5	8.7	8.8
Not in labor force	7,524	7,808	6,068	6,359	4,530	4,726	1,539	1,633
Hispanic origin								
Civilian noninstitutional population	13,791	14,297	12,772	13,326	7,315	7,541	5,456	5,786
Civilian labor force	9,323	9,576	8,625	8,909	4,733	4,828	3,892	4,061
Percent of population	67.6	67.0	67.5	68.9	64.7	64.0	71.3	70.5
Employed	8,573	8,808	7,940	8,207	4,316	4,428	3,624	3,760
Unemployed	750	769	685	702	417	401	268	301
Unemployment rate	8.0	8.0	7.9	7.9	8.8	8.3	6.9	7.4
Not in labor force	4,468	4,721	4,146	4,417	2,582	2,712	1,564	1,705

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
ANNUAL AVERAGES**

63. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin—Continued

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		1989	1990	1989	1990
	1989	1990	1989	1990	1989	1990				
TOTAL										
Civilian noninstitutional population	41,482	41,905	2,734	2,636	38,748	39,269	136,338	137,231	50,054	50,818
Civilian labor force	26,209	26,319	1,920	1,852	24,289	24,467	90,968	91,283	32,901	33,505
Percent of population	63.2	62.8	70.2	70.3	62.7	62.3	66.7	66.5	65.7	65.9
Employed	24,718	24,766	1,881	1,814	22,837	22,952	86,034	86,107	31,308	31,807
Unemployed	1,491	1,554	39	38	1,452	1,518	4,934	5,175	1,593	1,698
Unemployment rate	5.7	5.9	2.0	2.0	6.0	6.2	5.4	5.7	4.8	5.1
Not in labor force	15,273	15,586	814	784	14,459	14,801	45,370	45,948	17,153	17,314
Men, 20 years and over										
Civilian noninstitutional population	18,121	18,388	1,325	1,268	16,796	17,120	59,063	59,720	22,557	22,984
Civilian labor force	13,505	13,600	1,108	1,062	12,397	12,538	46,251	46,607	17,453	17,760
Percent of population	74.5	74.0	83.6	83.8	73.8	73.2	78.3	78.0	77.4	77.3
Employed	12,851	12,894	1,095	1,048	11,757	11,845	44,092	44,214	16,745	16,984
Unemployed	654	706	14	14	641	692	2,159	2,393	708	777
Unemployment rate	4.8	5.2	1.2	1.3	5.2	5.5	4.7	5.1	4.1	4.4
Not in labor force	4,616	4,788	217	206	4,399	4,582	12,811	13,112	5,104	5,224
Women, 20 years and over										
Civilian noninstitutional population	20,081	20,283	1,196	1,161	18,885	19,122	67,117	67,690	23,433	23,882
Civilian labor force	10,863	10,939	686	665	10,176	10,274	39,056	39,471	13,156	13,539
Percent of population	54.1	53.9	57.4	57.3	53.9	53.7	58.2	58.3	56.1	56.7
Employed	10,308	10,368	671	650	9,637	9,718	37,173	37,535	12,572	12,919
Unemployed	555	571	15	15	539	556	1,883	1,935	583	620
Unemployment rate	5.1	5.2	2.2	2.2	5.3	5.4	4.8	4.9	4.4	4.6
Not in labor force	9,219	9,344	510	496	8,709	8,848	28,061	28,219	10,278	10,323
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,280	3,234	212	208	3,067	3,027	10,159	9,822	4,064	3,972
Civilian labor force	1,841	1,781	125	125	1,716	1,655	5,661	5,205	2,293	2,205
Percent of population	56.1	55.1	58.9	60.3	55.9	54.7	55.7	53.0	56.4	55.5
Employed	1,559	1,504	115	116	1,443	1,388	4,768	4,358	1,991	1,903
Unemployed	282	276	10	10	272	267	892	847	302	302
Unemployment rate	15.3	15.5	7.9	7.6	15.9	16.1	15.8	16.3	13.2	13.7
Not in labor force	1,439	1,454	87	82	1,351	1,371	4,498	4,617	1,772	1,767
White										
Civilian noninstitutional population	37,155	37,575	2,668	2,572	34,487	35,003	112,975	113,301	46,363	47,114
Civilian labor force	23,656	23,755	1,881	1,814	21,775	21,941	75,721	75,976	30,634	31,201
Percent of population	63.7	63.2	70.5	70.5	63.1	62.7	67.0	67.1	66.1	66.2
Employed	22,461	22,506	1,846	1,779	20,616	20,728	72,325	72,363	29,259	29,724
Unemployed	1,195	1,249	35	36	1,160	1,214	3,396	3,613	1,375	1,478
Unemployment rate	5.1	5.3	1.9	2.0	5.3	5.5	4.5	4.8	4.5	4.7
Not in labor force	13,499	13,820	787	758	12,712	13,062	37,254	37,325	15,729	15,912
Black										
Civilian noninstitutional population	3,557	3,536	47	41	3,510	3,495	18,081	18,357	2,940	2,943
Civilian labor force	2,101	2,088	28	23	2,074	2,065	11,696	11,672	1,801	1,821
Percent of population	59.1	59.0	59.2	54.9	59.1	59.1	64.7	63.6	61.3	61.9
Employed	1,849	1,838	24	20	1,825	1,818	10,331	10,321	1,622	1,645
Unemployed	252	250	3	2	249	247	1,365	1,351	179	176
Unemployment rate	12.0	12.0	11.9	(¹)	12.0	12.0	11.7	11.6	9.9	9.7
Not in labor force	1,455	1,449	19	19	1,436	1,430	6,384	6,685	1,139	1,122
Hispanic origin										
Civilian noninstitutional population	1,019	970	44	45	975	926	12,590	13,071	1,201	1,226
Civilian labor force	697	667	30	35	667	632	8,506	8,743	817	834
Percent of population	68.4	68.7	68.8	77.3	68.4	68.3	67.6	66.9	68.0	68.0
Employed	633	600	30	33	603	567	7,830	8,046	743	761
Unemployed	65	67	1	2	64	65	676	696	74	72
Unemployment rate	9.3	10.0	(¹)	5.7	9.6	10.3	8.0	8.0	9.0	8.7
Not in labor force	322	304	14	10	308	293	4,084	4,328	384	393

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

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**HOUSEHOLD DATA
ANNUAL AVERAGES**

64. Employment status of the civilian noninstitutional population in poverty and nonpoverty areas by race and Hispanic origin

(Numbers in thousands)

Employment status, race, and Hispanic origin	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
TOTAL												
Civilian noninstitutional population	27,456	27,169	158,936	160,881	18,041	17,566	126,870	128,579	9,415	9,603	32,066	32,302
Civilian labor force	15,786	15,429	108,084	109,358	10,277	9,860	87,383	88,608	5,509	5,569	20,700	20,750
Percent of population	57.5	56.8	68.0	68.0	57.0	56.1	68.9	68.9	58.5	58.0	64.6	64.2
Employed	14,180	13,911	103,162	104,003	9,112	8,765	83,512	84,382	5,068	5,145	19,650	19,621
Unemployed	1,606	1,518	4,922	5,355	1,165	1,094	3,872	4,226	441	424	1,050	1,129
Unemployment rate	10.2	9.8	4.6	4.9	11.3	11.1	4.4	4.8	8.0	7.6	5.1	5.4
Men, 20 years and over	9.0	9.0	3.9	4.3	10.3	10.4	3.7	4.2	6.6	6.6	4.4	4.8
Women, 20 years and over	8.9	8.6	4.1	4.3	9.7	9.4	4.0	4.2	7.4	7.1	4.5	4.7
Both sexes, 16 to 19 years	26.7	25.6	13.1	14.0	29.3	29.1	13.0	13.9	21.8	19.5	13.6	14.6
Men	26.5	25.0	14.2	15.0	29.9	29.3	14.2	14.8	20.8	18.2	14.1	15.4
Women	26.8	26.2	12.1	13.0	28.8	29.0	11.8	12.8	23.1	21.1	13.1	13.6
Not in labor force	11,670	11,740	50,853	51,522	7,764	7,706	39,487	39,970	3,907	4,034	11,366	11,552
White												
Civilian noninstitutional population	16,550	16,319	142,788	144,095	9,617	9,175	112,565	113,664	6,933	7,144	30,222	30,431
Civilian labor force	9,772	9,543	96,582	97,634	5,634	5,324	77,065	78,098	4,138	4,219	19,518	19,536
Percent of population	59.0	58.5	67.6	67.8	58.6	58.0	68.5	68.7	59.7	59.1	64.6	64.2
Employed	9,034	8,874	92,551	93,212	5,144	4,885	73,979	74,695	3,889	3,989	18,572	18,517
Unemployed	739	669	4,032	4,422	490	439	3,086	3,403	249	230	946	1,019
Unemployment rate	7.6	7.0	4.2	4.5	8.7	8.2	4.0	4.4	6.0	5.5	4.8	5.2
Men, 20 years and over	6.7	6.5	3.6	4.0	7.8	7.7	3.4	3.9	5.3	5.0	4.2	4.6
Women, 20 years and over	6.7	5.8	3.7	3.9	7.8	6.8	3.6	3.8	5.3	4.6	4.3	4.5
Both sexes, 16 to 19 years	19.1	18.9	12.0	12.9	21.2	22.5	11.7	12.6	16.0	14.6	13.0	13.9
Men	19.8	18.2	13.0	13.8	22.7	23.0	12.9	13.6	16.0	12.8	13.6	14.5
Women	18.2	19.8	10.8	11.9	19.7	21.9	10.4	11.5	16.1	17.0	12.4	13.4
Not in labor force	6,778	6,776	46,205	46,461	3,983	3,851	35,501	35,567	2,795	2,925	10,704	10,895
Black												
Civilian noninstitutional population	9,782	9,718	11,239	11,582	7,600	7,552	9,865	10,212	2,182	2,167	1,375	1,370
Civilian labor force	5,412	5,281	8,086	8,212	4,198	4,087	7,198	7,318	1,213	1,194	888	894
Percent of population	55.3	54.3	71.9	70.9	55.2	54.1	73.0	71.7	55.6	55.1	64.6	65.3
Employed	4,598	4,493	7,355	7,473	3,557	3,470	6,547	6,658	1,041	1,023	808	815
Unemployed	813	788	731	739	641	617	651	660	172	171	80	79
Unemployment rate	15.0	14.9	9.0	9.0	15.3	15.1	9.0	9.0	14.2	14.3	9.0	8.8
Men, 20 years and over	13.9	14.2	7.4	8.1	14.8	14.8	7.3	8.1	11.0	12.0	8.3	7.6
Women, 20 years and over	12.3	12.7	8.2	7.6	12.0	12.4	8.2	7.6	13.3	13.9	7.7	7.8
Both sexes, 16 to 19 years	39.8	36.8	26.9	27.1	40.7	37.8	27.2	27.3	37.1	33.8	24.3	26.0
Men	38.9	38.3	26.9	28.1	40.2	39.3	27.6	27.8	35.1	35.3	20.4	(¹)
Women	40.8	35.4	27.0	26.1	41.3	36.3	26.8	26.7	39.2	32.0	(¹)	(¹)
Not in labor force	4,370	4,438	3,154	3,370	3,402	3,465	2,667	2,894	969	973	487	476
Hispanic origin												
Civilian noninstitutional population	4,519	4,372	9,272	9,925	4,162	4,020	8,610	9,307	356	352	663	616
Civilian labor force	2,672	2,497	6,651	7,079	2,445	2,273	6,180	6,636	226	224	471	443
Percent of population	59.1	57.1	71.7	71.3	58.7	56.6	71.8	71.3	63.5	63.6	71.1	71.7
Employed	2,376	2,239	6,196	6,568	2,174	2,037	5,767	6,171	203	202	430	398
Unemployed	295	258	455	510	271	237	414	465	24	21	41	45
Unemployment rate	11.0	10.3	6.8	7.2	11.1	10.4	6.7	7.0	10.4	9.6	8.7	10.2
Men, 20 years and over	9.3	9.2	5.5	6.2	9.3	9.3	5.3	6.0	9.2	8.1	7.3	8.2
Women, 20 years and over	11.2	9.6	6.8	6.7	11.2	9.6	6.8	6.5	11.3	9.8	7.7	10.5
Both sexes, 16 to 19 years	23.1	22.9	17.7	18.3	23.7	23.9	17.2	17.9	(¹)	(¹)	22.7	22.4
Men	25.0	23.0	18.3	18.3	25.8	24.4	18.5	17.7	(¹)	(¹)	(¹)	(¹)
Women	20.9	22.7	16.7	18.2	21.3	23.1	15.2	18.2	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,847	1,875	2,621	2,846	1,717	1,746	2,429	2,671	130	128	192	175

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

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**ESTABLISHMENT DATA
EMPLOYMENT
ANNUAL AVERAGES**

65. Employees on nonfarm payrolls by major industry and manufacturing group

(In thousands)

Industry	1987	1988	1989	1990 ^p
Total	102,200	105,536	108,413	110,330
Total private	85,190	88,150	90,644	92,035
Goods-producing	24,708	25,173	25,326	25,004
Mining	717	713	700	735
Oil and gas extraction	401.8	400.7	385.7	408.2
Construction	4,967	5,110	5,200	5,205
General building contractors	1,320.0	1,352.8	1,337.6	1,314.6
Manufacturing	19,024	19,350	19,426	19,064
Durable goods	11,167	11,381	11,422	11,124
Lumber and wood products	754.7	768.8	757.5	739.2
Furniture and fixtures	515.8	528.1	526.4	511.3
Stone, clay, and glass products	555.0	568.5	569.0	553.8
Primary metal industries	746.8	771.1	772.0	752.5
Blast furnaces and basic steel products	268.4	278.5	277.7	270.9
Fabricated metal products	1,401.8	1,431.5	1,445.9	1,409.9
Industrial machinery and equipment	2,030.4	2,092.4	2,131.9	2,099.6
Electronic and other electrical equipment	1,750.9	1,766.2	1,753.4	1,692.2
Transportation equipment	2,028.7	2,037.7	2,054.4	1,982.6
Motor vehicles and equipment	866.6	857.4	857.0	801.5
Instruments and related products	1,012.2	1,032.5	1,025.5	997.1
Miscellaneous manufacturing	370.5	384.3	386.1	385.4
Nondurable goods	7,858	7,969	8,004	7,941
Food and kindred products	1,620.4	1,630.8	1,645.2	1,649.9
Tobacco products	55.2	54.6	49.4	46.5
Textile mill products	725.6	728.9	723.6	700.2
Apparel and other textile products	1,098.8	1,087.6	1,074.3	1,028.8
Paper and allied products	674.9	689.9	697.1	698.5
Printing and publishing	1,506.2	1,547.6	1,563.9	1,578.2
Chemicals and allied products	1,025.9	1,059.0	1,073.8	1,085.4
Petroleum and coal products	163.9	160.1	156.9	159.8
Rubber and misc. plastics products	843.3	867.6	883.6	866.5
Leather and leather products	143.4	142.8	136.2	126.6
Service-producing	77,492	80,363	83,087	85,326
Transportation and public utilities	5,372	5,527	5,648	5,838
Transportation	3,163	3,312	3,450	3,620
Communications and public utilities	2,209	2,215	2,199	2,218
Wholesale trade	5,865	6,055	6,271	6,361
Durable goods	3,448	3,580	3,717	3,764
Nondurable goods	2,417	2,475	2,554	2,596
Retail trade	18,462	19,077	19,580	19,790
General merchandise stores	2,411.8	2,473.1	2,535.4	2,480.7
Food stores	2,961.8	3,078.7	3,190.2	3,294.7
Automotive dealers and service stations	2,003.7	2,075.4	2,109.0	2,124.4
Eating and drinking places	6,105.8	6,285.8	6,449.4	6,598.7
Finance, insurance, and real estate	6,547	6,649	6,724	6,833
Finance	3,271	3,283	3,307	3,340
Insurance	2,029	2,079	2,103	2,142
Real estate	1,247	1,287	1,314	1,350
Services	24,235	25,669	27,096	28,209
Business services	4,301.0	4,669.3	4,930.6	5,039.7
Health services	6,805.4	7,121.0	7,550.7	8,113.9
Government	17,010	17,386	17,769	18,295
Federal	2,943	2,971	2,988	3,086
State	3,967	4,076	4,175	4,284
Local	10,100	10,339	10,606	10,925

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system

and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
ANNUAL AVERAGES**

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

(In thousands)

Industry	1987	1988	1989	1990 ^p
Total private	68,976	71,383	73,474	74,563
Goods-producing	17,358	17,722	17,815	17,511
Mining	511	512	499	529
Construction	3,877	3,990	4,059	4,043
Manufacturing	12,970	13,221	13,257	12,939
Durable goods	7,418	7,596	7,615	7,377
Lumber and wood products	628.6	640.2	626.9	608.4
Furniture and fixtures	412.9	421.4	419.5	404.1
Stone, clay, and glass products	429.3	443.7	444.4	430.9
Primary metal industries	562.6	589.8	589.1	571.2
Blast furnaces and basic steel products	202.9	215.5	214.2	207.8
Fabricated metal products	1,039.4	1,064.0	1,071.1	1,038.8
Industrial machinery and equipment	1,205.0	1,258.9	1,286.3	1,262.9
Electronic and other electrical equipment	(²)	1,113.7	1,107.9	1,067.9
Transportation equipment	1,279.0	1,274.2	1,279.6	1,219.4
Motor vehicles and equipment	673.7	668.3	663.1	610.5
Instruments and related products	(²)	509.0	509.3	493.5
Miscellaneous manufacturing	270.1	281.4	281.2	279.6
Nondurable goods	5,552	5,625	5,642	5,562
Food and kindred products	1,147.7	1,158.4	1,176.9	1,186.0
Tobacco products	41.6	40.9	36.6	34.3
Textile mill products	629.8	632.4	625.5	601.0
Apparel and other textile products	923.3	914.7	905.9	862.5
Paper and allied products	512.9	517.3	521.9	524.4
Printing and publishing	841.3	866.5	867.6	874.6
Chemicals and allied products	575.3	597.0	603.4	599.7
Petroleum and coal products	106.8	104.3	102.5	104.8
Rubber and misc. plastics products	653.6	675.2	688.4	670.8
Leather and leather products	119.8	118.0	112.9	104.3
Service-producing	51,618	53,660	55,660	57,052
Transportation and public utilities	4,455	4,574	4,694	4,852
Wholesale trade	4,701	4,878	5,048	5,106
Retail trade	16,412	16,917	17,353	17,524
Finance, insurance, and real estate	4,808	4,825	4,870	4,959
Services	21,242	22,467	23,695	24,612

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

² Not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
ANNUAL AVERAGES**

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

Industry	Average weekly hours				Average hourly earnings				Average weekly earnings			
	1987	1988	1989	1990 ^p	1987	1988	1989	1990 ^p	1987	1988	1989	1990 ^p
Total private	34.8	34.7	34.6	34.5	\$8.98	\$9.28	\$9.66	\$10.03	\$312.50	\$322.02	\$334.24	\$346.04
Mining	42.4	42.3	43.0	44.1	12.54	12.80	13.25	13.65	531.70	541.44	569.75	601.97
Construction	37.8	37.9	37.9	38.2	12.71	13.08	13.52	13.73	480.44	495.73	512.41	524.49
Manufacturing	41.0	41.1	41.0	40.8	9.91	10.19	10.49	10.84	406.31	418.81	430.09	442.27
<i>Overtime hours</i>	3.7	3.9	3.8	3.6	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Durable goods	41.5	41.8	41.6	41.3	\$10.43	\$10.71	\$11.01	\$11.35	\$432.99	\$447.68	\$458.02	\$468.76
<i>Overtime hours</i>	3.8	4.1	3.9	3.7	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Lumber and wood products	40.6	40.1	40.1	40.2	\$8.43	\$8.59	\$8.84	\$9.11	\$342.59	\$344.46	\$354.48	\$366.22
Furniture and fixtures	40.0	39.4	39.5	39.1	7.67	7.95	8.26	8.54	306.80	313.23	326.27	333.91
Stone, clay, and glass products	42.3	42.3	42.3	42.0	10.25	10.56	10.83	11.16	433.74	446.69	458.11	468.72
Primary metal industries	43.1	43.5	43.0	42.7	11.94	12.16	12.42	12.92	514.61	528.96	534.06	551.68
Blast furnaces and basic steel products	43.4	44.0	43.4	43.5	13.77	13.98	14.25	14.85	597.62	615.12	618.45	645.98
Fabricated metal products	41.6	41.9	41.6	41.3	10.01	10.29	10.57	10.83	416.00	431.15	439.71	447.28
Industrial machinery and equipment	42.2	42.7	42.4	41.9	10.73	11.08	11.40	11.77	452.96	473.12	483.36	493.16
Electronic and other electrical equipment	(²)	41.0	40.8	40.8	(²)	9.79	10.05	10.31	(²)	401.39	410.04	420.65
Transportation equipment	42.0	42.7	42.4	42.1	12.94	13.29	13.68	14.10	543.65	567.48	580.03	593.61
Motor vehicles and equipment	42.2	43.5	43.1	42.4	13.53	13.99	14.25	14.61	570.97	608.57	614.18	619.46
Instruments and related products	(²)	41.4	41.1	41.1	(²)	10.60	10.83	11.32	(²)	438.84	445.11	465.25
Miscellaneous manufacturing	39.4	39.2	39.4	39.5	7.76	8.00	8.29	8.61	305.74	313.60	326.63	340.10
Nondurable goods	40.2	40.2	40.2	40.1	9.19	9.45	9.75	10.14	369.55	379.89	391.95	406.61
<i>Overtime hours</i>	3.6	3.6	3.6	3.6	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Food and kindred products	40.2	40.3	40.7	40.8	\$8.93	\$9.12	\$9.38	\$9.63	\$358.99	\$367.54	\$381.77	\$392.90
Tobacco products	39.0	39.8	38.5	39.3	14.07	14.67	15.36	16.52	548.73	583.87	591.36	649.24
Textile mill products	41.8	41.0	40.9	40.0	7.17	7.38	7.67	8.02	299.71	302.58	313.70	320.80
Apparel and other textile products	37.0	37.0	36.9	36.4	5.94	6.12	6.35	6.59	219.78	226.44	234.32	239.88
Paper and allied products	43.4	43.3	43.3	43.3	11.43	11.69	11.96	12.31	496.40	506.18	517.87	533.02
Printing and publishing	38.0	38.0	37.9	37.9	10.28	10.53	10.88	11.25	390.64	400.14	412.35	426.38
Chemicals and allied products	42.3	42.2	42.4	42.5	12.37	12.71	13.09	13.53	523.25	536.36	555.02	575.03
Petroleum and coal products	44.0	44.4	44.3	44.8	14.58	14.97	15.41	16.25	641.52	664.67	682.66	728.00
Rubber and misc. plastics products	41.6	41.7	41.4	41.1	8.98	9.19	9.47	9.79	373.71	383.22	392.06	402.37
Leather and leather products	38.2	37.5	37.9	37.4	6.08	6.28	6.60	6.91	232.26	235.50	250.14	258.43
Transportation and public utilities	39.2	38.8	38.9	38.9	12.03	12.26	12.61	12.96	471.58	475.69	490.53	504.14
Wholesale trade	38.1	38.1	38.0	38.1	9.59	9.98	10.39	10.80	365.30	380.24	394.82	411.48
Retail trade	29.2	29.1	28.9	28.8	6.12	6.31	6.53	6.78	178.80	183.62	188.72	195.26
Finance, insurance, and real estate	36.3	35.9	35.8	35.8	8.73	9.06	9.54	9.98	316.37	325.25	341.53	357.28
Services	32.5	32.6	32.6	32.6	8.49	8.88	9.39	9.86	276.03	289.49	306.11	321.44

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

² Not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

Explanatory Notes

Introduction

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

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

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on 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 currently based on payroll reports from a sample of over 340,000 establishments employing over 40 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 day of the month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of 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 and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment reports, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

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

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

Hours of work

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

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

Earnings

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

compensation but are classified as employed rather than unemployed in the household survey.

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

Household Data (A tables)

COLLECTION AND COVERAGE

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

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

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

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

CONCEPTS AND DEFINITIONS

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

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

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

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

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

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

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

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

Jobseekers are all unemployed persons who made specific

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HISTORICAL COMPARABILITY

Change in lower age limit

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

Unemployment," *Employment and Earnings and Monthly Report on the Labor Force*, February 1967.

Noncomparability of labor force levels

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

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

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

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

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

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

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

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

Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first and second-stage ratio adjustments, and the composite estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

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

Changes in the occupational and industrial classification system

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

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

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

The industrial classification system used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had 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 *Employment and Earnings*.

Changes in the sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia

and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

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

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

ESTIMATING METHODS

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989	729	53,200	2,600	11,500
Nov. 1989 to present ³	729	57,400	2,600	11,800

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

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

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

obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city" and "balance of the MSA." Residence categories of non-MSA areas are "urban" and "rural." The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, etc.

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

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

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 38 and 24 age-sex groups respectively; the other races category has 4 age-sex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race-origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985 and August 1989. The nature and effect of the 1985 changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of *Employment and Earnings*.

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

estimates methodology is available in Report 1010 of that series.

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

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

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

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls.

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

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program, January 1961 through December 1966*, Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.

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

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-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. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

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

Sampling error. The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated

standard error enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.
3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

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

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

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the table may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of

Table B. Standard errors for major employment status categories

(in thousands)

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

change between 2 consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956–66 period, they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

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

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. Therefore, a conclusion that the average estimate derived from all possible samples

Table C. Standard errors for unemployment rates by major characteristics

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

lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 129,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First obtain the standard error from table H for the specific percentage and base.

The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

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

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus, to obtain the standard error of an estimate of an average level, rate, or

Table D. Standard errors for estimates of monthly level

(in thousands)

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

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

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

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

(in thousands)

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

¹ See footnote 1, table D.

² Part-time labor force for unemployment also includes persons reentering

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

percentage, or an estimate of a change in level, rate, or percentage, it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate, or percentage, find the standard error of this estimate. For an estimate of change in level, rate, or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table J to obtain the approximate standard error for the average or change.

Illustration. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that a year prior to this the unemployment rate was 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, is obtained from table F (0.11 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.11 x 1.40 = 0.15 percentage point.

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

$$\text{Standard error of year-to-year change} = \sqrt{\left(\frac{\text{Standard error}}{X}\right)^2 + \left(\frac{\text{Standard error}}{Y}\right)^2 - 2(P)\left(\frac{\text{Standard error}}{X}\right)\left(\frac{\text{Standard error}}{Y}\right)}$$

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

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

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(0.30)(216,000)(221,000)}$$

or about 259,000.

Table F. Standard errors for unemployment rates

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

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

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.97	13.71	15.67
100	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000	.28	.40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000	.13	.18	.28	.38	.46	.51	.56	.60	.62	-
60,000	.07	.10	.16	.21	.24	.27	.28	-	-	-
100,000	.06	.08	.12	.15	.17	.18	-	-	-	-
120,000	.05	.07	.11	.14	.15	-	-	-	-	-
140,000	.05	.07	.10	-	-	-	-	-	-	-

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

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

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

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

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

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

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

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

(in thousands)

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

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

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

industry indicated by the principal product or activity.

All data on employment, hours, and earnings for the Nation (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 (SIC) Manual*, Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

Industry employment

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

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence Agency and the National Security Agency 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-7). 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 (three-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 three-digit industries.

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

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component

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

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

Industry hours and earnings

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

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

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

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

Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of

any kind, e.g., for old-age and unemployment insurance, Group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

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

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

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

Indexes of aggregate weekly hours. The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 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.

Since overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month. 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 (excluding switching and terminal companies) are based on

monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

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

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

ESTIMATING METHODS

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

The "link relative" technique

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

sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

Size and regional stratification

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

a size stratum, a region stratum, or a size stratum of a region within an industry.

Benchmark adjustments

Employment estimates are compared periodically with benchmarks (comprehensive counts of employment) for the various nonfarm industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1989 levels. Benchmark adjustments are made annually.

The primary sources of benchmark information are

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

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

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

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

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

agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonfarm payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

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

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

THE SAMPLE

Design

The sampling plan used in the establishment survey is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a larger percent of total employment is

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

(In thousands)

Industry	Benchmark	1987 SIC-based estimate	Difference	
			Level	Percent
Total	107,026	107,073	-47	(¹)
Mining	678	703	-25	-3.7
Construction	4,741	4,813	-72	-1.5
Manufacturing	19,396	19,585	-189	-1.0
Transportation and public utilities	5,549	5,646	-97	-1.7
Wholesale trade	6,195	6,145	50	.8
Retail trade	19,115	19,023	92	.5
Finance, insurance, and real estate	6,639	6,714	-75	-1.1
Services	26,702	26,479	223	.8
Government	18,011	17,965	46	.3

¹ Less than 0.05 percent.

included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

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

Coverage

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

Reliability

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may accumulate over several months. To remove this accumulated error, the estimates are adjusted annually to new benchmarks. In addition to taking account of sampling and

Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1989

Industry	Benchmarks (thousands)	Sample coverage ¹		
		Number of establishments	Employees	
			Number (thousands)	Percent of benchmarks
Total	107,026	282,003	39,158	37
Mining	678	3,352	261	38
Construction	4,741	27,194	948	20
Manufacturing	19,396	51,253	9,377	48
Transportation and public utilities	5,549	214,673	22,149	39
Wholesale trade	6,195	25,311	1,120	18
Retail trade	19,115	55,477	4,136	22
Finance, insurance, and real estate	6,639	21,001	2,139	32
Services	26,702	63,877	6,184	23
Government:				
Federal	2,976	(³)	2,976	100
State	4,257	4,437	3,207	75
Local	10,778	15,428	6,661	62

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

² The Interstate Commerce Commission provides a complete count of employment for Class I railroads. A small sample is used to estimate hours and earnings data.

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

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

(In percent)

Industry	Average benchmark revision in employment estimates ¹	Relative error ²	
		Average weekly hours	Average hourly earnings
Total	0.2	-	-
Total private	.2	0.1	0.2
Mining	2.6	1.0	1.3
Construction	1.4	.2	.5
Manufacturing	.8	.1	.2
Durable goods	.6	.1	.3
Nondurable goods	.9	.1	.2
Transportation and public utilities	.7	.7	.6
Wholesale trade	1.1	.2	.4
Retail trade	.5	.2	.4
Finance, insurance, and real estate	.5	.2	.4
Services	.4	.4	.6
Government ³	.4	-	-

¹ The average percent revision in employment for the 1985-89 benchmarks.

² Relative errors relate to 1982 data.

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

response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes

in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors, which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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

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

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of

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

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

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to 1982 data.

the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

STATISTICS FOR STATES AND AREAS

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

tions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

Table Q. Errors of preliminary employment estimates

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total	76,100	75,200	Nondurable goods—Continued		
Total private	59,700	57,100	Printing and publishing	2,100	2,000
Goods-producing industries	21,700	21,100	Chemicals and allied products ..	2,600	2,800
Mining	3,700	3,400	Petroleum and coal products ...	1,200	1,200
Oil and gas extraction	3,100	2,800	Rubber and misc. plastics		
Construction	13,800	14,600	products	1,600	1,600
General building contractors	5,200	5,400	Leather and leather products ..	1,400	1,300
Manufacturing	16,700	17,700	Service-producing industries	71,200	69,300
Durable goods	12,600	11,600	Transportation and public utilities	14,500	12,900
Lumber and wood products	2,100	1,900	Transportation	12,600	10,500
Furniture and fixtures	1,600	1,600	Communications and public utilities ..	5,500	4,900
Stone, clay, and glass products ..	1,500	1,500	Wholesale trade	7,800	7,100
Primary metal industries	4,000	3,800	Durable goods	5,600	4,900
Blast furnaces and basic			Nondurable goods	4,900	4,300
steel products	3,000	2,700	Retail trade	35,200	30,800
Fabricated metal products	2,200	2,100	General merchandise stores	22,300	19,800
Industrial machinery			Food stores	7,000	6,100
and equipment	5,600	6,600	Automotive dealers and		
Electronic and other			service stations	4,000	4,900
electrical equipment	4,200	4,100	Eating and drinking places	8,800	7,700
Transportation equipment	7,200	6,700	Finance, insurance, and real estate ..	8,000	6,700
Motor vehicles and equipment ..	6,000	6,100	Finance	4,000	3,500
Instruments and related products	2,000	2,100	Insurance	3,600	3,000
Miscellaneous manufacturing	1,800	1,600	Real estate	4,300	3,800
Nondurable goods	8,300	8,200	Services	31,000	32,100
Food and kindred products	5,200	4,900	Business services	11,000	10,400
Tobacco products	1,400	1,300	Health services	8,500	7,800
Textile mill products	1,800	1,600	Government	51,900	45,800
Apparel and other textile			Federal	16,100	11,600
products	4,300	4,000	State	20,800	16,900
Paper and allied products	1,500	1,400	Local	35,600	36,200

NOTE: Data are based on differences from December 1984 through December 1989.

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

COLLECTION

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

CONCEPTS

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

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

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

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

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

Unit nonlabor payments include profits, capital consump-

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

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

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

NOTES ON THE DATA

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

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis.

Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202-523-9261).

State and Area Labor Force Data (D table)

FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which are derived from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Job Training and Partnership Act, the Economic Dislocation and Worker Adjustment Assistance Act, and the Urban Development Action Grant program.

Annual average data for the States and areas shown in table

D are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual-average data classified by selected demographic, social, and economic characteristics are published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

Labor force estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

Estimates for States

Current monthly estimates. The civilian labor force and unemployment estimates for the 11 largest States—California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas—are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.

Two models—one for employment and one for the unemployment rate—are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.

The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the self-employed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-to-population ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment and unemployment rate models,

an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

Benchmark correction procedures. Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

Estimates for sub-State areas

Monthly labor force and employment estimates for two large sub-State areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained directly from the CPS. Estimates for all other sub-State areas, more than 2,600 labor market areas (LMA's), are prepared through indirect estimation techniques, described below.

Preliminary estimate—employment. The total civilian employment estimates are based on CES data. These "place-of-work" estimates must be adjusted to refer to place-of-residence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

Preliminary estimate—unemployment. In the current month, the estimate of unemployment is an aggregate of the estimates for each of three categories: (1) persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the civilian labor force for the first time or reentering after a period of separation.

Sub-State adjustment for additivity. Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

Benchmark correction. At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical

relationships. The corrected estimates are then readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published monthly in *Employment and Earnings*.

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January-June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age)

are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April-March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are calculated and published twice a year. Revisions of historical data will continue to be made once a year, coincident with benchmark revisions.

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and

multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 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, seasonally adjusted, 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 failed or unsatisfactory seasonally adjusted series, however, are used in the aggregation to broader level seasonally adjusted series.

Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census workers for the

decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

BLS has developed an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter. This extension was also used for the seasonal adjustment of many of the establishment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

Revised seasonally adjusted establishment-based series based on the experience through May 1990, new seasonal adjustment factors for August 1990–April 1991, and a description of the current seasonal adjustment procedure appear in the September 1990 issue of *Employment and Earnings*.

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