



EMPLOYMENT AND EARNINGS

January 1988

U.S. Department of Labor  
Bureau of Labor Statistics





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

*Employment and Earnings* may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Subscription price per year \$22 domestic and \$27.50 foreign. Single copy \$8.50 domestic and \$10.63 foreign. Annual supplement \$14 domestic and \$17.50 foreign. Prices are subject to change by the U.S. Government Printing Office. For ordering information call (202) 783-3238.

Communications on material in this publication should be addressed to: Editors, *Employment and Earnings*, Bureau of Labor Statistics, Washington, DC 20212, or phone: Gloria P. Green (202) 523-1959. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

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

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ISSN 0013-6840

## Calendar of Features

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

### Household data

Annual averages Jan.  
Union affiliation Jan.

Revised seasonally adjusted series Jan., Feb.

Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-era veterans and nonveterans, family relationship data, weekly earnings data, and metropolitan-nonmetropolitan and poverty-nonpoverty area data Jan., Apr., July, Oct.

### Establishment data

National annual averages:

Industry divisions (preliminary) Jan.

Industry detail (final) Mar.

Women employees (final) Mar.

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

Revised historical national data Supplement<sup>1</sup>

State and area annual averages May

Area definitions May

### State and area labor force data

Annual averages May

<sup>1</sup> The latest supplement was published in July 1987.

# Employment and Earnings

Vol. 35 No. 1 January 1988

Editors: Gloria Peterson Green, Rosalie K. Epstein

## Editors' Note

It is the annual practice of the Bureau of Labor Statistics to recalculate the seasonal adjustment factors for unemployment and other labor force series derived from the Current Population Survey (household survey) to incorporate the experience in the most recent year. As a result of the recalculation of seasonal adjustment factors, seasonally adjusted data for the past 5 years are subject to revision. The data in tables A-1, 2, 3, and 32-53 have been revised to reflect the updated seasonal adjustment factors. Revised monthly data covering the 1983-87 revision period for a broader range of labor force series will appear in next month's issue.

The seasonal adjustment methodology is described in the article beginning on page 9 in this issue. The article also gives the new seasonal adjustment factors to be used to calculate the civilian labor force and other major series for January-June 1988.

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# Employment and Unemployment Developments, December 1987

Employment continued to increase in December and unemployment was little changed. The overall unemployment rate was 5.7 percent, and the rate for civilian workers was 5.8 percent. While little different from November, both rates have declined nearly a percentage point during 1987.

The number of nonagricultural wage and salary jobs—as measured by the monthly survey of establishments—increased by 325,000 in December to 103.6 million. Civilian employment—as measured by the monthly survey of households—rose by 240,000 to 113.7 million. Over the past year, job growth in both surveys has totaled about 3 million.

## Unemployment

The number of unemployed persons, at 7.0 million in December, and the civilian unemployment rate, at 5.8 percent, seasonally adjusted, were little changed from November but have edged down from this past summer's levels. Both of these measures have improved markedly during 1987. This improvement largely reflects a decline in the number of unemployed persons who lost their last job. (See tables A-33 and A-41.)

In December, there was little or no change in the jobless rates for adult men (4.9 percent), adult women (5.2 percent), teenagers (16.1 percent), whites (4.9 percent), and blacks (12.2 percent). The unemployment rate for Hispanics, which is often more volatile than those for whites and blacks, declined to 8.1 percent in December, a return to its general level of the July-to-October period. Jobless rates for nearly all worker groups showed considerable improvement over the year. (See tables A-33 and A-34.)

The mean duration of unemployment, at 14.2 weeks, and the median duration, at 6.0 weeks, were about unchanged from November. However, in line with the general improvement in unemployment, both measures showed a decline in duration of about 1 week compared with year-earlier levels.

## Civilian employment and the labor force

Civilian employment rose by 240,000 in December to 113.7 million, and the percentage of the population with jobs held at a high of 61.9 percent. During the course of 1987, civilian employment has increased by 3.1 million, the largest annual gain since 1984. (See table A-33.)

The civilian labor force was little changed in December at 120.7 million. Over the past year, the labor force grew

by 2.2 million, with adult women comprising about two-thirds of the increase.

## Discouraged workers

The number of discouraged workers—persons who want to work but do not look for jobs because they believe that they cannot find any—declined to about 900,000 in the fourth quarter of 1987, the lowest level since the fourth quarter of 1979. The discouraged total was down by more than 200,000, or 20 percent, from a year earlier. Women and blacks continued to comprise disproportionately large shares of all discouraged workers. (See table A-53.)

## Industry payroll employment

Total nonagricultural employment rose by 325,000 in December, seasonally adjusted, to a level of 103.6 million. As has often been the case in recent years, the services industry paced the over-the-month gains, but there were also further job increases in construction and manufacturing. (See table B-4.)

Manufacturing employment grew for the sixth straight month, adding another 40,000 jobs in December. The growth was not quite as widespread as the month before, however, as two components, machinery and electrical equipment, were responsible for half of manufacturing's overall increase. Employment in the motor vehicles and equipment industry was essentially unchanged over the month but, in contrast to the trend for the whole of manufacturing, has been edging down; it is now nearly 60,000 below its early 1986 level.

Construction, up 55,000, after seasonal adjustment, ended the year with its third consecutive monthly increase. At 5.1 million, construction employment was 200,000 above a year earlier.

Within the service-producing sector, the services industry rose sharply in December, by 145,000, as business services (35,000) and health services (40,000) led the way. Wholesale trade, dominated by an increase in its durable goods component, rose 20,000. Retail trade employment, in contrast, was flat for the second consecutive month, as jobs in general merchandise stores showed a seasonally adjusted drop of 35,000 over the October-December period. Employment in finance, insurance, and real estate, which has been growing at a slower pace in recent months compared to the prior 4 years, was unchanged in December. The

industry's finance component was also unchanged from November and has shown hardly any growth since July.

### Weekly hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls fell 0.2 hour in December, after seasonal adjustment, to 34.7 hours. The manufacturing workweek, while slipping a tenth of an hour for the second consecutive month, was still at a very high 41.1 hours. Factory overtime, which held at 3.9 hours, also was quite high by historical standards. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls edged down by 0.2 percent to 122.0 (1977=100), seasonally adjusted, reflecting the decline in the workweek. The manufacturing index was little changed, at 95.5, but has risen by 3.5 percent over the past year. (See table C-6.)

### Hourly and weekly earnings

Average hourly earnings edged down by 0.2 percent in December, seasonally adjusted, and average weekly earnings fell by 0.8 percent. Prior to seasonal adjustment, hourly earnings dropped by 1 cent to \$9.13, while weekly earnings edged up 57 cents to \$318.64. (See tables C-1 and C-7.)

### The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 175.6 (1977=100) in December, seasonally adjusted, a decrease of 0.1 percent from November. For the 12 months ended in December, the index rose 2.7 percent. In dollars of constant purchasing power, the HEI decreased 1.8 percent during the 12-month period ending in November. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. (See table C-7.)

### Corrected average hourly and weekly earnings data for August and September 1987

Industry	Average hourly earnings		Average weekly earnings		The Hourly Earnings Index	
	August 1987	September 1987	August 1987	September 1987	August 1987	September 1987
Transportation and public utilities . . .	\$12.04	\$12.09	\$476.78	\$473.93	-	-
Seasonally adjusted . . .	12.08	12.04	-	-	177.0	176.6
Constant (1977) dollars . . . . .	6.48	6.47	256.47	253.71	-	-
Electric, gas, and sanitary services . . .	13.77	13.86	568.70	573.80	-	-
Combination utility services . . .	16.15	16.23	678.30	678.41	-	-

NOTE: These corrections are reflected in estimates for subsequent months presented in tables C-1, C-2, C-4, and C-7.

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
Reference month	Release date	Reference month	Release date
January	February 5	April	May 6
February	March 4	May	June 3
March	April 1	June	July 1

# Revision of Seasonally Adjusted Labor Force Series

\*Robert J. McIntire

As pointed out in the explanatory note on seasonal adjustment published at the back of each issue of *Employment and Earnings*, the purpose of seasonal adjustment is to eliminate from economic time series the influence of seasonal events such as weather, holidays, opening and closing of schools, etc., 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 measured 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. However, 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 1987 and provide revised estimates for January 1983 through December 1987.

Several months of revised data for many of the major seasonally adjusted labor force series have already been

published in the news release on the December 1987 employment situation, issued January 8 (USDL 88-3). This issue of *Employment and Earnings* contains revised data for the last 13 months and quarters for many seasonally adjusted labor force series, including those that appeared in the release. Next month's issue will provide complete 1983-87 revisions for a few hundred of the seasonally adjusted monthly labor force series most in demand. These revisions replace the data published in the February 1987 issue for 1983-86 and the seasonally adjusted estimates for 1987 published during the past year. Seasonally adjusted data for 1982 and earlier years were not revised. Table 1 of this article contains the new projected seasonal factors, to be applied during the first 6 months of 1988 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 1988 will be estimated in early July, based on data through June 1988, and will be published in the July issue of this publication.

## Effect of revisions

One of the criteria used to evaluate alternative methods of seasonal adjustment is how close initial estimates are to later 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 1987 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 generally 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 1987 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 a few months of the year, with the absolute effect of the changes never exceeding 0.1 in any of those months. Compared to the initial estimates, the revised rates suggest a slightly smoother downward trend during the first half of the year.

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**Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, January-June 1988**

Procedure and series	January	February	March	April	May	June
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over .....	.894	.889	.936	1.011	1.071	1.094
Women, 20 years and over .....	.834	.844	.877	.920	1.097	1.143
Men, 16 to 19 years .....	.531	.612	.739	1.064	1.227	1.613
Women, 16 to 19 years .....	.559	.635	.742	.756	.951	1.741
Nonagricultural employment:						
Men, 20 years and over .....	.988	.987	.992	.993	1.000	1.006
Women, 20 years and over .....	.995	.996	1.000	1.001	1.000	.994
Unemployment:						
Men, 20 years and over .....	1.165	1.165	1.111	1.010	.961	.970
Women, 20 years and over .....	1.040	1.022	1.006	.943	.971	.990
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years .....	-294	-297	-289	-239	-89	378
Women, 16 to 19 years .....	-271	-250	-189	-179	-142	292
Unemployment:						
Men, 16 to 19 years .....	-4	18	-23	-72	-40	220
Women, 16 to 19 years .....	-64	-39	-44	-68	4	256

**Table 2. Seasonally adjusted unemployment rates in 1987 and change due to revision**

Month	As first computed		As revised		Change due to revision	
	Overall	Civillian	Overall	Civillian	Overall	Civillian
January ..	6.6	6.7	6.6	6.7	0	0
February ..	6.6	6.7	6.5	6.6	-0.1	-0.1
March ..	6.5	6.6	6.4	6.5	-.1	-.1
April ..	6.2	6.3	6.2	6.3	0	0
May ..	6.2	6.3	6.2	6.3	0	0
June ..	6.0	6.1	6.0	6.1	0	0
July .....	5.9	6.0	6.0	6.0	.1	0
August .....	5.9	6.0	5.9	6.0	0	0
September ..	5.8	5.9	5.8	5.9	0	0
October .....	5.9	6.0	5.9	6.0	0	0
November ..	5.8	5.9	5.8	5.9	0	0
December .....	15.7	15.8	5.7	5.8	0	0

<sup>1</sup>These rates reflect the use of seasonal factors projected for December 1987 as published in the July 1987 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 an improvement to the widely used X-11 method developed at the U.S. Bureau of the Census in the 1960's.<sup>1</sup> The X-11 ARIMA method improves current estimates for

<sup>1</sup> The primary documentation for the X-11 ARIMA procedure is in *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).

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

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

force series are of the Box-Jenkins type.<sup>2</sup> They can generally be described with the notations:

(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 178 of the 209 labor force series which were directly adjusted at the end of 1987, including all 12 major civilian labor force components, whose ARIMA models are shown in table 3. The models for three of those major components—nonagricultural employment for men 20 years and over and agricultural employment for women 20 years and over and women 16 to 19—are different from those used last year. The 35 remaining series for which acceptable models have not been identified were simply run through the X-II part of the program without any ARIMA extrapolations.

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 1978 through December 1987, was used for the adjustment of all the labor force series, except those relating to the Hispanic-origin population, for which data from January 1980 forward were used.

The X-11 method of seasonal adjustment contained in the

<sup>2</sup> 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 for the 12 major civilian labor force components, 1987**

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

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 four teenage unemployment and nonagricultural employment series were adjusted using the additive model, and the other eight series with the multiplicative model. Of all the 209 directly adjusted series, 46 were adjusted with the additive model, primarily those involving teenage employment and unemployment, for which the seasonal component seems to be fairly independent of the trend-cycle.

Current official practice for the labor force series involves the running of all 209 directly adjusted series through X-11 ARIMA twice each year, after receipt of June and December data, respectively, 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 has historically 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. Within the last several years, a growing body of research, including a recent paper on the labor force series,<sup>3</sup>

<sup>3</sup> G.R. Methée and R.J. McIntire, "An Evaluation of Concurrent Seasonal Adjustment for the Major Labor Force Series," forthcoming 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.

indicates 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, may produce initial seasonally adjusted estimates requiring significantly smaller revisions than those produced by adjustment using projected factors. Further research is being carried out on concurrent adjustment. In the meantime, the current practice will be continued for official labor force estimates. Concurrently adjusted alternative estimates for major labor force series will be available upon request.

### **Aggregation procedures**

BLS maintains and publishes several hundred seasonally adjusted labor force series in addition to the 209 directly adjusted series discussed above. The 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 civilian unemployment rate are all produced by aggregation 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, respectively, in nonagricultural and agricultural industries. The seasonally adjusted civilian labor force is the sum of all 12 of these 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. The various 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. It is necessary to directly adjust the components in order to properly estimate these varying seasonal patterns. 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 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**

As indicated above, many of the revised seasonally adjusted series are being published in this and next month's issues of *Employment and Earnings*. Additional data for any of the several hundred seasonally adjusted labor force series, as well as the January-June 1988 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 Services Group, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics, Washington, DC 20212.

A-1. Employment status of the noninstitutional population 16 years and over, 1954 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												
1954 .....	110,463	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,678	
1955 .....	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660	
1956 .....	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402	
1957 .....	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336	
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 <sup>1</sup> .....	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963 .....	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964 .....	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982 .....	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983 .....	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984 .....	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839	
1985 .....	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987 .....	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
Monthly data, seasonally adjusted <sup>2</sup>												
<b>1986:</b>												
December .....	183,297	120,326	65.6	112,407	1,750	110,657	3,153	107,504	7,919	6.6	62,971	
<b>1987:</b>												
January .....	183,575	120,726	65.8	112,762	1,748	111,014	3,174	107,840	7,964	6.6	62,849	
February .....	183,738	120,970	65.8	113,084	1,740	111,344	3,225	108,119	7,886	6.5	62,768	
March .....	183,915	120,982	65.8	113,191	1,736	111,455	3,237	108,218	7,791	6.4	62,933	
April .....	184,079	121,098	65.8	113,541	1,735	111,806	3,250	108,556	7,557	6.2	62,981	
May .....	184,259	121,633	66.0	114,060	1,726	112,334	3,269	109,065	7,573	6.2	62,626	
June .....	184,421	121,326	65.8	114,018	1,718	112,300	3,192	109,108	7,308	6.0	63,095	
July .....	184,605	121,610	65.9	114,359	1,720	112,639	3,212	109,427	7,251	6.0	62,995	
August .....	184,738	122,042	66.1	114,786	1,736	113,050	3,143	109,907	7,256	5.9	62,696	
September .....	184,904	121,706	65.8	114,615	1,743	112,872	3,184	109,688	7,091	5.8	63,198	
October .....	185,052	122,128	66.0	114,951	1,741	113,210	3,249	109,961	7,177	5.9	62,924	
November .....	185,225	122,349	66.1	115,259	1,755	113,504	3,172	110,332	7,090	5.8	62,876	
December .....	185,370	122,472	66.1	115,494	1,750	113,744	3,215	110,529	6,978	5.7	62,898	

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

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

NOTE: Seasonally adjusted household survey data shown in tables A-1,2,3 and 32-53 have been revised based on the experience through December 1987. Data for 1983-87 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, 1977 to date**

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
1977 .....	76,756	59,959	78.1	56,291	1,563	54,728	2,671	52,057	3,667	6.1	16,797	
1978 <sup>1</sup> .....	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956	
1979 .....	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,832	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 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987 .....	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1986:</b>												
December .....	87,868	67,409	76.7	62,960	1,593	61,367	2,501	58,866	4,449	6.6	20,459	
<b>1987:</b>												
January .....	88,020	67,602	76.8	63,153	1,591	61,562	2,507	59,055	4,449	6.6	20,418	
February .....	88,099	67,655	76.8	63,281	1,584	61,697	2,545	59,152	4,374	6.5	20,444	
March .....	88,186	67,590	76.6	63,263	1,575	61,688	2,582	59,106	4,327	6.4	20,596	
April .....	88,271	67,604	76.6	63,390	1,575	61,815	2,608	59,207	4,214	6.2	20,667	
May .....	88,361	67,802	76.7	63,543	1,566	61,977	2,594	59,383	4,259	6.3	20,559	
June .....	88,442	67,623	76.5	63,543	1,559	61,984	2,530	59,454	4,080	6.0	20,819	
July .....	88,534	67,671	76.4	63,711	1,561	62,150	2,547	59,603	3,960	5.9	20,863	
August .....	88,598	67,937	76.7	63,916	1,575	62,341	2,489	59,852	4,021	5.9	20,661	
September .....	88,683	67,776	76.4	63,949	1,581	62,368	2,547	59,821	3,827	5.6	20,907	
October .....	88,756	67,947	76.6	64,048	1,580	62,468	2,569	59,899	3,899	5.7	20,809	
November .....	88,849	68,019	76.6	64,174	1,593	62,581	2,491	60,090	3,845	5.7	20,830	
December .....	88,924	68,030	76.5	64,245	1,589	62,656	2,523	60,133	3,785	5.6	20,894	
<b>Annual averages</b>												
<b>WOMEN</b>												
1977 .....	83,932	40,705	48.5	37,381	92	37,269	612	36,677	3,324	8.2	43,227	
1978 <sup>1</sup> .....	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980 .....	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981 .....	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,824	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <sup>1</sup> .....	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987 .....	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1986:</b>												
December .....	95,429	52,917	55.5	49,447	157	49,290	652	48,638	3,470	8.6	42,512	
<b>1987:</b>												
January .....	95,556	53,124	55.6	49,609	157	49,452	667	48,785	3,515	6.6	42,432	
February .....	95,639	53,315	55.7	49,803	156	49,647	680	48,967	3,512	6.6	42,324	
March .....	95,729	53,392	55.8	49,928	161	49,767	655	49,112	3,464	6.5	42,337	
April .....	95,808	53,494	55.8	50,151	160	49,991	642	49,349	3,343	6.2	42,314	
May .....	95,898	53,831	56.1	50,517	160	50,357	675	49,682	3,314	6.2	42,067	
June .....	95,979	53,703	56.0	50,475	159	50,316	662	49,654	3,228	6.0	42,276	
July .....	96,071	53,939	56.1	50,648	159	50,489	665	49,824	3,291	6.1	42,132	
August .....	96,140	54,105	56.3	50,870	161	50,709	654	50,055	3,235	6.0	42,035	
September .....	96,221	53,930	56.0	50,666	162	50,504	637	49,867	3,264	6.1	42,291	
October .....	96,295	54,181	56.3	50,903	161	50,742	680	50,062	3,278	6.1	42,114	
November .....	96,376	54,330	56.4	51,085	162	50,923	681	50,242	3,245	6.0	42,046	
December .....	96,446	54,442	56.4	51,249	161	51,088	692	50,396	3,193	5.9	42,004	

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

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

NOTE: Seasonally adjusted data have been revised based on the experience through December 1987. See the article in this issue for additional information.



A-3. Employment status of the civilian noninstitutional population 16 years and over, 1954 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								
1954	108,321	63,643	58.8	60,109	3,532	5.5	5.3	6.0
1955	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
1956	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <sup>1</sup>	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 <sup>1</sup>	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 <sup>1</sup>	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup>	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup>	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 <sup>1</sup>	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
Monthly data, seasonally adjusted <sup>2</sup>								
<b>1986:</b>								
December	181,547	118,576	65.3	110,657	7,919	6.7	6.8	6.6
<b>1987:</b>								
January	181,827	118,978	65.4	111,014	7,964	6.7	6.7	6.6
February	181,998	119,230	65.5	111,344	7,886	6.6	6.6	6.6
March	182,179	119,246	65.5	111,455	7,791	6.5	6.6	6.5
April	182,344	119,363	65.5	111,806	7,557	6.3	6.4	6.3
May	182,533	119,907	65.7	112,334	7,573	6.3	6.4	6.2
June	182,703	119,608	65.5	112,300	7,308	6.1	6.2	6.0
July	182,885	119,800	65.6	112,639	7,251	6.0	6.0	6.1
August	183,002	120,006	65.7	113,050	7,256	6.0	6.1	6.0
September	183,161	119,963	65.5	112,872	7,091	5.9	5.8	6.1
October	183,311	120,387	65.7	113,210	7,177	6.0	5.9	6.1
November	183,470	120,594	65.7	113,504	7,090	5.9	5.8	6.0
December	183,620	120,722	65.7	113,744	6,978	5.8	5.7	5.9

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

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

NOTE: Seasonally adjusted data have been revised based on the experience through December 1987. See the article in this issue for additional information.







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

(Numbers in thousands)

Age and sex	December 1987								
	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	26,068	16,763	64.3	15,040	183	14,857	1,723	10.3	9,305
16 to 19 years .....	2,705	1,052	38.9	737	5	732	315	29.9	1,653
16 to 17 years .....	1,409	391	27.8	252	-	252	139	35.5	1,018
18 to 19 years .....	1,296	661	51.0	485	5	479	176	26.7	635
20 to 24 years .....	3,127	2,233	71.4	1,845	15	1,830	387	17.4	894
25 to 54 years .....	14,752	11,759	79.7	10,800	122	10,678	958	8.1	2,994
25 to 34 years .....	6,649	5,275	79.3	4,683	53	4,630	592	11.2	1,374
25 to 29 years .....	3,420	2,702	79.0	2,406	26	2,380	296	11.0	717
30 to 34 years .....	3,229	1,370	42.4	2,276	27	2,250	296	21.6	657
35 to 44 years .....	4,862	4,005	82.4	3,769	33	3,736	236	5.9	857
35 to 39 years .....	2,794	2,323	83.1	2,177	13	2,164	145	6.2	472
40 to 44 years .....	2,068	1,683	81.4	1,592	20	1,571	90	5.3	385
45 to 54 years .....	3,242	2,479	76.5	2,348	36	2,312	131	5.3	763
45 to 49 years .....	1,748	1,398	80.0	1,330	15	1,315	68	4.9	350
50 to 54 years .....	1,494	1,082	72.4	1,018	21	998	63	5.8	412
55 to 64 years .....	2,640	1,395	52.9	1,341	22	1,318	55	3.9	1,245
55 to 59 years .....	1,383	866	62.6	823	17	807	42	4.9	517
60 to 64 years .....	1,257	530	42.1	517	6	512	13	2.4	727
65 years and over .....	2,843	323	11.4	318	18	300	6	1.7	2,519
65 to 69 years .....	1,074	208	19.4	204	5	200	4	1.9	867
70 to 74 years .....	743	79	10.6	79	12	67	2	2.5	663
75 years and over .....	1,025	35	3.4	35	2	33	-	( <sup>1</sup> )	990
<b>Men</b>									
16 years and over .....	11,837	8,420	71.1	7,536	160	7,376	884	10.5	3,417
16 to 19 years .....	1,340	542	40.5	374	2	372	168	31.0	798
16 to 17 years .....	716	197	27.5	126	-	126	71	35.9	519
18 to 19 years .....	624	345	55.3	248	2	246	97	28.1	279
20 to 24 years .....	1,457	1,122	77.0	921	15	906	201	17.9	335
25 to 54 years .....	6,691	5,869	87.7	5,395	110	5,286	473	8.1	823
25 to 34 years .....	3,022	2,684	88.8	2,387	45	2,342	297	11.1	339
25 to 29 years .....	1,562	1,385	88.7	1,237	21	1,216	148	10.7	177
30 to 34 years .....	1,460	1,298	88.9	1,149	24	1,126	149	11.5	162
35 to 44 years .....	2,210	1,953	88.3	1,840	29	1,811	113	5.8	258
35 to 39 years .....	1,293	1,162	89.8	1,088	10	1,078	73	6.3	132
40 to 44 years .....	917	791	86.2	732	19	713	39	5.0	126
45 to 54 years .....	1,459	1,233	84.5	1,169	36	1,133	64	5.2	227
45 to 49 years .....	799	699	87.4	674	15	659	25	3.6	100
50 to 54 years .....	660	534	80.9	495	21	475	39	7.2	126
55 to 64 years .....	1,184	717	60.6	678	17	661	39	5.4	467
55 to 59 years .....	635	448	70.5	421	12	409	27	6.0	187
60 to 64 years .....	550	270	49.1	257	6	252	12	4.6	280
65 years and over .....	1,164	170	14.6	167	16	151	3	1.6	994
65 to 69 years .....	472	110	23.4	107	4	104	3	2.7	362
70 to 74 years .....	311	46	14.8	47	12	35	-	( <sup>1</sup> )	265
75 years and over .....	380	13	3.4	13	1	12	-	( <sup>1</sup> )	367
<b>Women</b>									
16 years and over .....	14,230	8,342	58.6	7,504	23	7,481	838	10.0	5,888
16 to 19 years .....	1,365	510	37.3	363	3	360	147	28.9	855
16 to 17 years .....	694	194	28.0	126	-	126	88	35.0	500
18 to 19 years .....	672	316	47.0	237	3	234	79	25.1	356
20 to 24 years .....	1,670	1,111	66.5	924	1	924	188	18.8	559
25 to 54 years .....	8,061	5,890	73.1	5,405	12	5,392	485	8.2	2,171
25 to 34 years .....	3,626	2,591	71.5	2,296	8	2,288	295	11.4	1,035
25 to 29 years .....	1,858	1,317	70.9	1,169	5	1,164	148	11.2	540
30 to 34 years .....	1,769	1,274	72.0	1,127	3	1,124	147	11.5	495
35 to 44 years .....	2,652	2,053	77.4	1,929	4	1,925	124	6.0	599
35 to 39 years .....	1,501	1,161	77.4	1,089	3	1,086	72	6.2	340
40 to 44 years .....	1,151	892	77.5	840	1	839	51	5.8	259
45 to 54 years .....	1,783	1,246	69.9	1,179	1	1,179	67	5.4	536
45 to 49 years .....	949	699	73.6	656	-	656	43	6.2	250
50 to 54 years .....	834	548	65.7	523	-	523	24	4.4	286
55 to 64 years .....	1,456	678	46.6	662	5	657	16	2.3	778
55 to 59 years .....	748	418	55.9	402	5	397	16	3.7	330
60 to 64 years .....	708	260	36.8	260	-	260	-	.1	447
65 years and over .....	1,679	153	9.1	151	2	149	3	1.8	1,526
65 to 69 years .....	602	98	16.2	97	1	96	1	1.2	505
70 to 74 years .....	432	33	7.6	32	-	32	2	( <sup>1</sup> )	398
75 years and over .....	645	22	3.4	22	1	21	-	( <sup>1</sup> )	623

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	181,547	183,620	78,973	80,002	88,016	89,010	14,558	14,609
Civilian labor force .....	118,049	120,206	61,665	62,075	49,057	50,492	7,327	7,639
Percent of population .....	65.0	65.5	78.1	77.6	55.7	56.7	50.3	52.3
Employed .....	110,588	113,679	57,959	59,035	46,512	48,146	6,117	6,498
Agriculture .....	2,826	2,874	2,128	2,121	545	578	153	175
Nonagricultural industries .....	107,762	110,805	55,831	56,914	45,966	47,568	5,964	6,323
Unemployed .....	7,461	6,526	3,706	3,040	2,546	2,346	1,209	1,141
Unemployment rate .....	6.3	5.4	6.0	4.9	5.2	4.6	16.5	14.9
Not in labor force .....	63,498	63,414	17,309	17,927	38,959	38,518	7,231	6,970
<b>White</b>								
Civilian noninstitutional population .....	156,111	157,552	68,757	69,504	75,465	76,145	11,889	11,903
Civilian labor force .....	101,983	103,443	53,970	54,197	41,619	42,659	6,394	6,587
Percent of population .....	65.3	65.7	78.5	78.0	55.2	56.0	53.8	55.3
Employed .....	96,388	98,639	51,094	51,873	39,808	41,004	5,486	5,761
Agriculture .....	2,646	2,691	1,985	1,963	517	558	144	170
Nonagricultural industries .....	93,741	95,948	49,109	49,910	39,291	40,447	5,342	5,592
Unemployed .....	5,596	4,804	2,876	2,323	1,812	1,655	908	826
Unemployment rate .....	5.5	4.6	5.3	4.3	4.4	3.9	14.2	12.5
Not in labor force .....	54,127	54,109	14,787	15,308	33,846	33,486	5,494	5,316
<b>Black</b>								
Civilian noninstitutional population .....	20,152	20,508	7,980	8,133	10,030	10,206	2,142	2,169
Civilian labor force .....	12,598	13,127	5,932	6,026	5,908	6,241	758	860
Percent of population .....	62.5	64.0	74.3	74.1	58.9	61.2	35.4	39.6
Employed .....	10,980	11,631	5,249	5,430	5,251	5,626	480	575
Agriculture .....	142	150	117	129	17	17	7	4
Nonagricultural industries .....	10,838	11,481	5,132	5,302	5,234	5,608	472	570
Unemployed .....	1,618	1,496	683	595	657	615	279	285
Unemployment rate .....	12.8	11.4	11.5	9.9	11.1	9.9	36.8	33.2
Not in labor force .....	7,554	7,381	2,049	2,107	4,122	3,965	1,383	1,309

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	December 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	15,636	7,485	47.9	6,704	1,240	5,464	781	96	685	10.4
16 to 19 years .....	10,913	4,826	44.2	4,168	405	3,764	657	43	614	13.6
20 to 24 years .....	4,722	2,659	56.3	2,535	835	1,700	124	53	71	4.6
High school .....	8,174	3,492	42.7	2,944	188	2,756	548	35	513	15.7
College .....	7,462	3,992	53.5	3,759	1,052	2,707	233	61	172	5.8
Full-time students .....	6,470	3,101	47.9	2,901	460	2,441	201	48	153	6.5
Part-time students .....	992	891	89.8	859	592	266	32	13	19	3.6
Men, 16 to 24 years .....	8,046	3,750	46.6	3,312	664	2,647	438	69	369	11.7
16 to 19 years .....	5,604	2,438	43.5	2,064	226	1,838	373	33	340	15.3
20 to 24 years .....	2,442	1,312	53.7	1,247	438	809	65	36	29	4.9
High school .....	4,292	1,813	42.2	1,485	112	1,374	328	35	293	18.1
College .....	3,755	1,937	51.6	1,826	553	1,274	111	35	76	5.7
Full-time students .....	3,271	1,499	45.8	1,406	247	1,159	93	32	61	6.2
Part-time students .....	483	438	90.7	421	306	115	18	2	16	4.1
Women, 16 to 24 years .....	7,589	3,734	49.2	3,392	576	2,816	343	26	316	9.2
16 to 19 years .....	5,309	2,388	45.0	2,104	179	1,925	284	10	274	11.9
20 to 24 years .....	2,280	1,346	59.0	1,288	397	891	59	16	42	4.4
High school .....	3,882	1,679	43.3	1,459	76	1,383	220	-	220	13.1
College .....	3,707	2,055	55.4	1,933	500	1,433	122	26	96	5.9
Full-time students .....	3,199	1,603	50.1	1,495	213	1,282	108	15	92	6.7
Part-time students .....	509	452	89.0	438	287	151	15	11	4	3.2
<b>White</b>										
Total, 16 to 24 years .....	12,849	6,498	50.6	5,943	1,071	4,872	555	62	493	8.5
16 to 19 years .....	8,858	4,195	47.4	3,719	355	3,364	477	32	445	11.4
20 to 24 years .....	3,991	2,303	57.7	2,225	717	1,508	78	31	48	3.4
Men .....	6,623	3,244	49.0	2,918	564	2,354	325	44	281	10.0
Women .....	6,226	3,255	52.3	3,025	507	2,518	230	18	212	7.1
High school .....	6,509	3,024	46.5	2,631	162	2,469	393	27	366	13.0
College .....	6,340	3,475	54.8	3,312	910	2,403	162	36	127	4.7
Full-time students .....	5,514	2,721	49.3	2,581	404	2,177	140	26	114	5.1
Part-time students .....	826	754	91.3	732	506	226	22	10	13	3.0
<b>Black</b>										
Total, 16 to 24 years .....	2,084	720	34.5	521	119	403	198	30	169	27.6
16 to 19 years .....	1,607	489	30.4	325	39	286	163	12	151	33.4
20 to 24 years .....	477	231	48.5	196	80	117	35	17	17	15.1
Men .....	1,049	369	35.1	272	75	197	97	21	76	26.3
Women .....	1,035	351	33.9	250	44	206	101	9	92	28.9
High school .....	1,341	383	28.6	242	23	219	141	9	132	36.9
College .....	743	337	45.3	279	96	183	57	21	36	17.0
Full-time students .....	631	246	39.0	195	33	162	51	18	34	20.8
Part-time students .....	111	90	81.1	84	63	21	6	3	3	6.5
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,192	483	40.5	414	114	300	68	11	58	14.2
16 to 19 years .....	839	266	31.6	210	31	180	55	6	49	20.8
20 to 24 years .....	352	217	61.7	204	83	121	13	4	9	6.1
Men .....	590	258	43.7	218	60	159	39	5	34	15.2
Women .....	602	225	37.4	196	54	142	29	6	24	13.0
High school .....	714	207	28.9	159	17	142	47	5	42	22.9
College .....	478	276	57.8	255	97	158	21	6	16	7.6
Full-time students .....	373	179	48.2	164	32	132	16	-	16	8.7
Part-time students .....	105	97	91.9	91	65	26	5	5	-	5.6

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 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	17,854	14,536	82.3	13,054	11,265	1,788	1,482	1,347	134	10.2
16 to 19 years .....	3,695	2,813	76.1	2,330	1,762	568	483	427	57	17.2
20 to 24 years .....	13,959	11,722	84.0	10,724	9,503	1,221	999	921	78	8.5
Less than 4 years of high school .....	4,207	2,740	65.1	2,180	1,677	503	560	505	55	20.4
4 years of high school .....	9,103	7,762	85.3	7,050	6,085	965	712	655	56	9.2
1 to 3 years of college .....	2,872	2,615	91.1	2,456	2,204	252	159	135	23	6.1
4 years of college or more .....	1,472	1,420	96.5	1,368	1,300	68	52	52	-	3.6
<b>Men, 16 to 24 years .....</b>	<b>8,348</b>	<b>7,578</b>	<b>90.8</b>	<b>6,715</b>	<b>6,041</b>	<b>674</b>	<b>863</b>	<b>817</b>	<b>46</b>	<b>11.4</b>
16 to 19 years .....	1,729	1,483	84.6	1,166	933	232	297	273	24	20.3
20 to 24 years .....	6,619	6,115	92.4	5,550	5,108	442	566	544	22	9.3
Less than 4 years of high school .....	2,180	1,748	80.1	1,370	1,132	238	376	352	24	21.5
4 years of high school .....	4,317	4,058	94.0	3,663	3,329	334	395	383	12	9.7
1 to 3 years of college .....	1,200	1,138	94.9	1,075	997	79	63	54	9	5.5
4 years of college or more .....	651	636	97.7	607	584	23	29	29	-	4.6
<b>Women, 16 to 24 years .....</b>	<b>9,306</b>	<b>6,957</b>	<b>74.8</b>	<b>6,338</b>	<b>5,224</b>	<b>1,114</b>	<b>619</b>	<b>530</b>	<b>89</b>	<b>8.9</b>
16 to 19 years .....	1,967	1,350	68.7	1,164	829	335	186	154	33	13.8
20 to 24 years .....	7,340	5,607	76.4	5,174	4,396	779	433	377	56	7.7
Less than 4 years of high school .....	2,028	994	49.0	810	545	265	184	153	31	18.5
4 years of high school .....	4,787	3,704	77.4	3,387	2,756	631	316	272	44	8.5
1 to 3 years of college .....	1,672	1,477	88.3	1,381	1,207	174	96	82	14	6.5
4 years of college or more .....	820	783	95.5	761	716	45	22	23	-	2.9
<b>White</b>										
Total, 16 to 24 years .....	14,609	12,237	83.8	11,232	9,738	1,494	1,005	906	99	8.2
16 to 19 years .....	3,046	2,392	78.5	2,043	1,549	494	349	306	43	14.6
20 to 24 years .....	11,563	9,845	85.1	9,189	8,189	1,000	656	600	56	6.7
<b>Men .....</b>	<b>6,974</b>	<b>6,421</b>	<b>92.1</b>	<b>5,814</b>	<b>5,275</b>	<b>539</b>	<b>607</b>	<b>573</b>	<b>35</b>	<b>9.5</b>
<b>Women .....</b>	<b>7,635</b>	<b>5,816</b>	<b>76.2</b>	<b>5,418</b>	<b>4,463</b>	<b>955</b>	<b>398</b>	<b>334</b>	<b>64</b>	<b>6.8</b>
Less than 4 years of high school .....	3,428	2,303	67.2	1,917	1,475	442	386	347	39	16.8
4 years of high school .....	7,486	6,495	86.8	6,022	5,226	796	473	428	45	7.3
1 to 3 years of college .....	2,340	2,132	91.1	2,032	1,838	194	100	84	15	4.7
4 years of college or more .....	1,354	1,306	96.5	1,260	1,199	62	46	46	-	3.5
<b>Black</b>										
Total, 16 to 24 years .....	2,638	1,981	75.1	1,567	1,295	272	414	380	34	20.9
18 to 19 years .....	562	371	66.1	249	182	67	122	108	14	32.8
20 to 24 years .....	2,076	1,809	77.5	1,318	1,113	204	292	272	20	18.1
<b>Men .....</b>	<b>1,180</b>	<b>989</b>	<b>83.8</b>	<b>774</b>	<b>649</b>	<b>125</b>	<b>215</b>	<b>204</b>	<b>11</b>	<b>21.8</b>
<b>Women .....</b>	<b>1,458</b>	<b>992</b>	<b>68.0</b>	<b>794</b>	<b>647</b>	<b>147</b>	<b>199</b>	<b>175</b>	<b>23</b>	<b>20.0</b>
Less than 4 years of high school .....	689	388	56.1	228	172	54	160	145	15	41.4
4 years of high school .....	1,433	1,126	78.6	919	756	163	207	196	11	18.4
1 to 3 years of college .....	429	383	89.2	337	289	48	46	38	8	12.0
4 years of college or more .....	88	85	97.5	85	78	6	1	1	-	.8
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,078	1,563	75.2	1,404	1,211	193	159	144	15	10.2
16 to 19 years .....	504	348	69.1	293	230	63	55	49	7	15.9
20 to 24 years .....	1,574	1,215	77.2	1,111	981	131	104	96	8	8.5
<b>Men .....</b>	<b>1,029</b>	<b>900</b>	<b>87.5</b>	<b>808</b>	<b>717</b>	<b>91</b>	<b>92</b>	<b>88</b>	<b>4</b>	<b>10.3</b>
<b>Women .....</b>	<b>1,049</b>	<b>663</b>	<b>63.2</b>	<b>596</b>	<b>494</b>	<b>102</b>	<b>67</b>	<b>56</b>	<b>11</b>	<b>10.1</b>
Less than 4 years of high school .....	899	593	65.9	504	423	81	88	81	7	14.9
4 years of high school .....	922	755	81.9	689	593	96	67	60	6	8.8
1 to 3 years of college .....	206	167	81.1	164	149	15	3	1	2	1.9
4 years of college or more .....	50	48	( <sup>2</sup> )	47	46	1	1	1	-	( <sup>2</sup> )

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

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

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

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



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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Dec. 1986	Dec. 1987	Total		Employed		Unemployed			
			Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Number		Percent of labor force	
							Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,792	7,863	7,256	7,242	6,901	6,902	355	340	4.9	4.7
30 to 44 years .....	6,314	6,083	6,043	5,786	5,721	5,481	322	305	5.3	5.3
30 to 34 years .....	1,045	813	990	766	911	687	79	79	8.0	10.3
35 to 39 years .....	2,857	2,402	2,746	2,304	2,602	2,185	144	119	5.2	5.2
40 to 44 years .....	2,412	2,868	2,307	2,716	2,208	2,609	99	107	4.3	3.9
45 years and over .....	1,478	1,780	1,213	1,456	1,180	1,421	33	35	2.7	2.4
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	18,886	19,908	17,841	18,727	16,901	17,943	940	784	5.3	4.2
30 to 34 years .....	8,653	8,974	8,220	8,487	7,759	8,091	461	396	5.6	4.7
35 to 39 years .....	5,946	6,501	5,609	6,113	5,307	5,886	302	227	5.4	3.7
40 to 44 years .....	4,287	4,433	4,012	4,127	3,835	3,966	177	161	4.4	3.9

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

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

**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 1987							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	93,569	91,835	1,734	20,110	16,678	3,432	5,233	1,293
16 to 19 years .....	2,167	2,078	89	4,331	3,937	394	470	671
16 to 17 years .....	240	231	9	2,433	2,342	91	84	436
18 to 19 years .....	1,926	1,847	79	1,898	1,595	303	386	235
20 years and over .....	91,402	89,757	1,645	15,779	12,741	3,038	4,763	622
20 to 24 years .....	10,339	10,068	271	2,921	2,294	627	973	149
25 years and over .....	81,064	79,689	1,375	12,858	10,447	2,411	3,790	473
25 to 54 years .....	69,891	68,713	1,178	9,281	7,281	2,000	3,430	363
55 years and over .....	11,175	10,977	198	3,578	3,167	411	360	110
<b>Men, 16 years and over .....</b>	<b>55,720</b>	<b>54,686</b>	<b>1,034</b>	<b>6,545</b>	<b>5,209</b>	<b>1,336</b>	<b>3,160</b>	<b>550</b>
16 to 19 years .....	1,159	1,109	50	2,070	1,882	188	306	364
20 years and over .....	54,560	53,577	983	4,474	3,326	1,148	2,854	186
20 to 24 years .....	5,546	5,385	161	1,251	962	289	580	50
25 years and over .....	49,014	48,192	822	3,223	2,364	859	2,274	135
25 to 54 years .....	41,854	41,161	693	1,766	1,076	690	2,051	78
55 years and over .....	7,159	7,031	128	1,457	1,288	169	223	57
<b>Women, 16 years and over .....</b>	<b>37,849</b>	<b>37,149</b>	<b>700</b>	<b>13,566</b>	<b>11,470</b>	<b>2,096</b>	<b>2,073</b>	<b>743</b>
16 to 19 years .....	1,007	969	38	2,261	2,055	206	164	306
20 years and over .....	36,842	36,180	662	11,304	9,415	1,889	1,909	437
20 to 24 years .....	4,793	4,683	110	1,669	1,332	337	393	99
25 years and over .....	32,049	31,497	552	9,634	8,082	1,552	1,517	339
25 to 54 years .....	28,034	27,551	483	7,516	6,205	1,311	1,380	285
55 years and over .....	4,015	3,946	69	2,119	1,878	241	137	53
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>49,059</b>	<b>48,188</b>	<b>871</b>	<b>5,670</b>	<b>4,638</b>	<b>1,032</b>	<b>2,391</b>	<b>435</b>
16 to 19 years .....	1,026	986	40	1,829	1,674	155	225	278
20 years and over .....	48,033	47,202	831	3,840	2,964	876	2,167	157
20 to 24 years .....	4,813	4,689	124	1,063	853	210	392	38
25 years and over .....	43,220	42,513	707	2,777	2,111	666	1,774	119
25 to 54 years .....	36,768	36,173	595	1,457	914	543	1,587	68
55 years and over .....	6,451	6,339	112	1,320	1,197	123	187	51
<b>Women, 16 years and over .....</b>	<b>31,778</b>	<b>31,243</b>	<b>535</b>	<b>12,132</b>	<b>10,445</b>	<b>1,687</b>	<b>1,412</b>	<b>566</b>
16 to 19 years .....	877	850	27	2,029	1,854	175	113	210
20 years and over .....	30,900	30,393	507	10,103	8,591	1,512	1,299	356
20 to 24 years .....	4,093	4,013	80	1,445	1,163	282	239	66
25 years and over .....	26,807	26,380	427	8,660	7,429	1,231	1,061	290
25 to 54 years .....	23,345	22,972	373	6,802	5,757	1,045	938	241
55 years and over .....	3,464	3,409	55	1,858	1,672	186	123	48
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,059</b>	<b>4,906</b>	<b>153</b>	<b>657</b>	<b>385</b>	<b>272</b>	<b>650</b>	<b>99</b>
16 to 19 years .....	109	100	9	176	147	29	74	80
20 years and over .....	4,950	4,805	145	481	238	243	576	19
20 to 24 years .....	614	578	36	145	69	76	151	7
25 years and over .....	4,335	4,226	109	335	169	166	425	12
25 to 54 years .....	3,792	3,697	95	220	95	125	398	5
55 years and over .....	543	529	14	115	74	41	27	7
<b>Women, 16 years and over .....</b>	<b>4,801</b>	<b>4,663</b>	<b>138</b>	<b>1,114</b>	<b>765</b>	<b>349</b>	<b>593</b>	<b>154</b>
16 to 19 years .....	112	102	10	177	151	26	46	85
20 years and over .....	4,688	4,561	127	937	613	324	547	68
20 to 24 years .....	579	550	29	176	125	51	139	30
25 years and over .....	4,110	4,012	98	763	490	273	408	37
25 to 54 years .....	3,682	3,593	89	532	309	223	397	33
55 years and over .....	428	419	9	231	181	50	11	4

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

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

(Numbers in thousands)

Family relationship	December 1987									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	97,443	65.9	92,154	5,289	5.4	50,481	23,340	8,436	2,176	16,529
Husbands .....	39,907	78.4	38,564	1,343	3.4	10,979	222	207	864	9,686
With employed wife .....	25,431	91.7	24,682	749	2.9	2,304	92	111	321	1,780
With unemployed wife .....	984	91.7	855	130	13.2	89	4	1	24	60
With wife not in labor force .....	13,491	61.1	13,027	464	3.4	8,585	126	95	518	7,846
Wives .....	28,809	56.6	27,736	1,074	3.7	22,077	18,397	376	338	2,965
With employed husband .....	25,537	66.2	24,682	855	3.3	13,027	11,770	322	125	810
With unemployed husband .....	878	65.4	749	130	14.8	464	425	3	18	18
With husband not in labor force .....	2,394	21.8	2,304	89	3.7	8,585	6,202	51	195	2,136
Relatives in married-couple families .....	12,928	61.9	11,653	1,275	9.9	7,945	750	5,613	329	1,253
16 to 19 years .....	4,834	51.5	4,245	589	12.2	4,558	108	4,228	12	210
20 to 24 years .....	4,690	73.9	4,330	361	7.7	1,659	135	1,263	55	205
25 years and over .....	3,403	66.3	3,078	325	9.6	1,728	507	122	262	838
Women who maintain families .....	6,657	62.1	6,138	519	7.8	4,070	2,866	213	190	801
Relatives in families maintained by women .....	5,486	59.2	4,692	793	14.5	3,775	754	1,662	298	1,060
16 to 19 years .....	1,429	47.0	1,087	342	23.9	1,610	98	1,366	4	142
20 to 24 years .....	1,573	73.8	1,362	212	13.5	559	125	243	30	162
25 years and over .....	2,482	60.7	2,243	239	9.6	1,606	531	53	264	756
Men who maintain families .....	1,994	75.1	1,871	122	6.1	662	51	50	86	475
Relatives in families maintained by men .....	1,662	63.1	1,501	162	9.7	973	300	315	71	287
16 to 19 years .....	306	54.6	248	58	19.1	255	10	217	1	27
20 to 24 years .....	435	75.5	399	36	8.3	141	19	80	2	40
25 years and over .....	922	61.5	854	68	7.4	577	271	18	68	220

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
Total, 16 years and over .....	4,382	3,711	6.7	5.6	3,079	2,816	5.8	5.2
Married, spouse present .....	1,868	1,482	4.5	3.5	1,242	1,169	4.3	3.9
Widowed, divorced, or separated .....	525	477	8.2	7.4	676	619	6.5	5.8
Single (never married) .....	1,989	1,752	11.7	10.1	1,161	1,027	8.8	7.4
White, 16 years and over .....	3,390	2,826	5.9	4.9	2,205	1,978	4.9	4.3
Married, spouse present .....	1,549	1,234	4.1	3.3	1,010	958	3.9	3.6
Widowed, divorced, or separated .....	391	391	7.3	7.3	504	436	6.1	5.1
Single (never married) .....	1,451	1,201	10.2	8.3	691	583	6.5	5.3
Black, 16 years and over .....	831	750	13.2	11.6	787	746	12.5	11.2
Married, spouse present .....	240	193	7.6	5.9	176	163	7.5	6.6
Widowed, divorced, or separated .....	122	79	12.6	8.7	159	171	9.0	9.3
Single (never married) .....	470	478	21.2	20.8	451	413	21.1	17.6
Total, 25 years and over .....	2,838	2,409	5.3	4.4	1,930	1,854	4.6	4.3
Married, spouse present .....	1,670	1,333	4.2	3.3	993	956	3.7	3.5
Widowed, divorced, or separated .....	485	454	7.9	7.3	600	562	6.1	5.5
Single (never married) .....	684	622	8.9	7.6	337	338	6.2	5.7
White, 25 years and over .....	2,223	1,894	4.7	4.0	1,423	1,350	4.0	3.7
Married, spouse present .....	1,385	1,102	3.9	3.1	810	788	3.4	3.3
Widowed, divorced, or separated .....	353	369	6.9	7.1	442	397	5.6	4.9
Single (never married) .....	485	422	7.6	6.3	173	165	4.2	3.7
Black, 25 years and over .....	507	438	10.2	8.6	437	446	8.7	8.4
Married, spouse present .....	215	179	7.2	5.8	134	130	6.1	5.7
Widowed, divorced, or separated .....	120	78	12.7	8.7	148	152	8.6	8.6
Single (never married) .....	172	181	16.3	16.1	156	164	14.3	13.0

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
Total, 16 years and over .....	7,461	6,526	6.3	5.4	6.7	5.6	5.8	5.2
Managerial and professional specialty .....	584	605	2.1	2.1	2.1	2.1	2.1	2.0
Executive, administrative, and managerial .....	287	342	2.2	2.5	2.0	2.4	2.5	2.6
Professional specialty .....	297	263	2.0	1.7	2.3	1.8	1.7	1.6
Technical, sales, and administrative support .....	1,421	1,329	3.9	3.6	3.5	2.9	4.1	3.9
Technicians and related support .....	107	93	3.1	2.7	3.3	2.1	2.9	3.3
Sales occupations .....	586	564	4.1	3.9	3.0	2.7	5.2	5.1
Administrative support, including clerical .....	728	671	3.9	3.5	4.7	3.7	3.7	3.4
Service occupations .....	1,302	1,146	8.0	7.0	8.1	6.8	8.0	7.1
Private household .....	68	60	6.5	6.1	( <sup>1</sup> )	( <sup>1</sup> )	6.8	6.0
Protective service .....	116	76	5.8	3.7	5.1	2.8	10.5	9.2
Service, except private household and protective .....	1,117	1,011	8.5	7.5	9.3	8.2	8.0	7.2
Precision production, craft, and repair .....	963	738	6.7	5.2	6.7	5.3	6.4	4.1
Mechanics and repairers .....	236	172	5.2	3.8	5.2	3.8	5.2	3.1
Construction trades .....	482	406	8.9	7.5	8.7	7.3	20.7	13.9
Other precision production, craft, and repair .....	246	160	5.5	3.8	5.5	4.0	5.3	3.1
Operators, fabricators, and laborers .....	2,063	1,667	10.8	8.7	10.8	8.7	10.8	8.5
Machine operators, assemblers, and inspectors .....	876	683	10.2	7.9	9.8	7.4	10.8	8.4
Transportation and material moving occupations .....	446	380	8.8	7.5	8.9	7.5	7.2	7.5
Handlers, equipment cleaners, helpers, and laborers .....	741	604	13.7	11.0	13.9	11.4	12.7	9.3
Construction laborers .....	208	193	24.1	19.7	24.0	18.9	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	533	411	11.7	9.2	11.6	9.4	12.4	8.1
Farming, forestry, and fishing .....	288	286	9.1	8.7	8.5	9.0	12.0	7.4
No previous work experience .....	801	727						
16 to 19 years .....	513	486						
20 to 24 years .....	143	112						
25 years and over .....	145	129						

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
Total, 16 years and over .....	7,461	6,526	6.3	5.4	6.7	5.6	5.8	5.2
Nonagricultural private wage and salary workers .....	5,770	4,901	6.5	5.4	7.0	5.7	5.9	5.2
Mining .....	123	68	13.6	7.9	13.9	8.3	11.3	6.2
Construction .....	839	679	14.1	11.1	14.7	11.5	7.9	7.2
Manufacturing .....	1,471	1,081	6.8	5.0	6.3	4.6	7.9	6.0
Durable goods .....	841	598	6.5	4.7	6.4	4.6	6.6	5.1
Lumber and wood products .....	51	47	7.5	6.8	8.0	7.0	4.8	5.7
Furniture and fixtures .....	42	39	6.4	6.1	6.8	7.0	5.3	4.3
Stone, clay, and glass products .....	56	27	9.0	4.2	8.5	4.3	10.3	3.6
Primary metal industries .....	86	38	10.3	4.6	9.8	4.4	13.9	6.0
Fabricated metal products .....	111	87	8.5	6.2	9.0	6.4	6.8	5.7
Machinery, except electrical .....	142	93	5.5	3.8	5.1	3.4	6.8	5.1
Electrical machinery, equipment, and supplies .....	138	80	6.1	3.8	5.6	2.7	6.9	5.3
Transportation equipment .....	149	154	5.3	5.7	5.2	5.4	5.5	7.1
Automobiles .....	92	79	7.0	6.3	6.5	6.2	8.9	6.3
Other transportation equipment .....	58	76	3.9	5.3	4.1	4.6	2.8	7.9
Professional and photographic equipment .....	25	18	3.6	2.8	3.3	2.9	4.1	2.6
Other durable goods industries .....	42	15	7.1	2.7	7.1	3.0	6.7	2.4
Nondurable goods .....	630	483	7.4	5.5	6.1	4.5	9.1	6.8
Food and kindred products .....	181	124	9.8	7.0	8.4	6.9	12.6	7.2
Textile mill products .....	46	51	6.4	6.5	6.2	3.8	6.8	8.9
Apparel and other textile products .....	146	107	11.5	8.8	7.5	7.8	12.8	9.1
Paper and allied products .....	41	25	5.8	3.6	5.4	3.6	7.0	3.6
Printing and publishing .....	79	73	4.6	3.9	3.4	3.3	5.9	4.6
Chemicals and allied products .....	70	48	6.0	3.6	5.9	2.6	6.1	6.1
Rubber and miscellaneous plastics products .....	50	36	6.9	4.7	7.0	4.7	6.7	4.7
Other nondurable goods industries .....	18	20	4.7	5.6	3.9	3.5	7.1	9.4
Transportation and public utilities .....	277	279	4.3	4.3	4.4	4.5	4.1	3.9
Transportation .....	221	229	6.1	6.2	6.2	6.4	5.6	5.5
Communications and other public utilities .....	57	50	2.1	1.8	1.8	1.4	2.6	2.5
Wholesale and retail trade .....	1,536	1,311	6.7	5.7	6.6	5.5	6.9	5.8
Wholesale trade .....	226	158	5.3	3.7	5.4	3.9	4.8	3.3
Retail trade .....	1,310	1,153	7.1	6.1	7.0	6.1	7.1	6.1
Finance, insurance, and real estate .....	204	230	2.9	3.1	2.9	3.5	2.9	2.9
Service industries .....	1,318	1,253	5.5	5.1	6.2	5.2	5.1	5.0
Professional services .....	454	468	3.4	3.4	3.1	2.9	3.5	3.6
Other service industries .....	864	785	8.3	7.3	8.8	7.0	8.0	7.5
Agricultural wage and salary workers .....	238	222	14.4	13.6	13.7	14.4	17.0	11.0
Government, self-employed, and unpaid family workers .....	651	676	2.4	2.4	2.5	2.5	2.4	2.3
No previous work experience .....	801	727	-	-	-	-	-	-

**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. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	7,461	6,526	3,706	3,040	2,546	2,346	1,209	1,141	5,596	4,804	1,618	1,496
Job losers .....	3,936	3,206	2,585	2,068	1,106	956	245	181	2,995	2,427	819	665
On layoff .....	1,126	909	774	585	298	290	53	34	933	788	166	99
Other job losers .....	2,810	2,297	1,811	1,483	808	666	192	147	2,062	1,639	653	566
Job leavers .....	929	856	431	370	369	357	130	129	769	682	132	153
Reentrants .....	1,795	1,738	563	521	910	873	322	345	1,330	1,208	408	454
New entrants .....	801	727	128	81	161	160	513	486	502	487	260	224
<b>PERCENT DISTRIBUTION</b>												
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	52.8	49.1	69.8	68.0	43.4	40.8	20.2	15.9	53.5	50.5	50.6	44.4
On layoff .....	15.1	13.9	20.9	19.2	11.7	12.4	4.4	3.0	16.7	16.4	10.2	6.6
Other job losers .....	37.7	35.2	48.9	48.8	31.7	28.4	15.8	12.9	36.8	34.1	40.4	37.8
Job leavers .....	12.5	13.1	11.6	12.2	14.5	15.2	10.7	11.3	13.7	14.2	8.1	10.2
Reentrants .....	24.1	26.6	15.2	17.1	35.8	37.2	26.6	30.2	23.8	25.1	25.2	30.3
New entrants .....	10.7	11.1	3.4	2.7	6.3	6.8	42.4	42.6	9.0	10.1	16.0	15.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	3.4	2.7	4.2	3.3	2.2	1.9	3.3	2.4	2.9	2.4	6.5	5.1
Job leavers .....	.8	.7	.7	.6	.8	.7	1.8	1.7	.8	.7	1.0	1.2
Reentrants .....	1.5	1.4	.9	.8	1.9	1.7	4.4	4.5	1.3	1.2	3.2	3.5
New entrants .....	.7	.6	.2	.1	.3	.3	7.0	6.4	.5	.5	2.1	1.7

**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 1987						
	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 .....	6,526	100.0	44.0	30.5	25.5	12.5	13.0
Job losers .....	3,206	100.0	40.8	31.0	28.2	13.0	15.2
On layoff .....	909	100.0	63.9	24.7	11.4	6.2	5.2
Other job losers .....	2,297	100.0	31.7	33.5	34.8	15.6	19.2
Job leavers .....	856	100.0	43.5	33.6	22.8	11.4	11.4
Reentrants .....	1,738	100.0	47.9	29.8	22.3	11.5	10.8
New entrants .....	727	100.0	49.1	26.4	24.5	13.8	10.7
Men, 20 years and over .....	3,040	100.0	40.5	30.1	29.4	12.0	17.4
Job losers .....	2,068	100.0	40.0	30.3	29.7	12.3	17.5
On layoff .....	585	100.0	62.0	26.8	11.2	5.5	5.7
Other job losers .....	1,483	100.0	31.3	31.7	37.0	15.0	22.1
Job leavers .....	370	100.0	38.2	33.5	28.2	10.4	17.8
Reentrants .....	521	100.0	44.7	27.6	27.7	11.5	16.2
New entrants .....	81	100.0	36.7	25.8	37.5	14.8	22.7
Women, 20 years and over .....	2,346	100.0	43.6	31.9	24.4	12.7	11.8
Job losers .....	956	100.0	39.9	32.2	27.9	14.8	13.1
On layoff .....	290	100.0	64.5	22.9	12.7	7.7	5.0
Other job losers .....	666	100.0	29.2	36.3	34.5	17.9	16.6
Job leavers .....	357	100.0	45.2	32.5	22.2	14.3	8.0
Reentrants .....	873	100.0	46.5	32.2	21.3	11.0	10.3
New entrants .....	160	100.0	46.6	27.5	25.8	5.2	20.6
Both sexes, 16 to 19 years .....	1,141	100.0	54.1	28.6	17.3	13.3	3.9
Job losers .....	181	100.0	55.8	31.9	12.3	11.2	1.1
On layoff .....	34	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	147	100.0	47.5	38.6	13.9	12.4	1.5
Job leavers .....	129	100.0	53.9	37.0	9.0	6.5	2.6
Reentrants .....	345	100.0	56.4	27.1	16.5	12.5	4.0
New entrants .....	486	100.0	51.9	26.2	21.9	16.5	5.4

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

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

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
Total, 16 years and over .....	7,461	6,526	100.0	100.0	6,102	5,233	100.0	100.0
Less than 5 weeks .....	2,972	2,871	39.8	44.0	2,196	2,143	36.0	41.0
5 to 14 weeks .....	2,443	1,991	32.7	30.5	2,034	1,641	33.3	31.4
5 to 10 weeks .....	1,733	1,448	23.2	22.2	1,462	1,184	24.0	22.6
11 to 14 weeks .....	710	543	9.5	8.3	572	458	9.4	8.8
15 weeks and over .....	2,046	1,665	27.4	25.5	1,872	1,449	30.7	27.7
15 to 26 weeks .....	954	813	12.8	12.5	869	683	14.2	13.1
27 weeks and over .....	1,092	851	14.6	13.0	1,004	766	16.5	14.6
27 to 51 weeks .....	425	283	5.7	4.3	393	245	6.4	4.7
52 weeks and over .....	668	568	9.0	8.7	611	522	10.0	10.0
Average (mean) duration, in weeks .....	15.4	14.6			16.8	15.9		
Median duration, in weeks .....	7.5	6.3			8.4	7.0		



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. 1986	Dec. 1987	Dec. 1986	Dec. 1987
	December 1987										
Total, 16 years and over .....	6,526	2,871	1,991	813	851	14.6	6.3	39.8	44.0	27.4	25.5
16 to 19 years .....	1,141	617	326	152	45	8.3	4.6	52.8	54.1	13.5	17.3
20 to 24 years .....	1,122	552	356	111	103	11.6	5.2	42.9	49.2	23.8	19.1
25 to 34 years .....	1,989	847	648	227	267	14.6	6.5	36.7	42.6	29.0	24.9
35 to 44 years .....	1,168	451	332	175	210	18.2	8.1	33.3	38.6	34.4	33.0
45 to 54 years .....	636	233	194	80	130	20.7	8.6	36.0	36.6	34.0	33.0
55 to 64 years .....	387	138	119	53	77	19.8	8.8	34.1	35.6	38.6	33.7
65 years and over .....	83	33	16	15	19	18.9	8.6	45.4	39.9	27.6	40.5
Men, 16 years and over .....	3,711	1,581	1,130	443	556	16.1	6.6	37.7	42.6	29.2	26.9
16 to 19 years .....	671	351	214	78	27	8.3	4.8	47.3	52.4	16.0	15.7
20 to 24 years .....	631	294	200	69	68	13.0	5.8	45.6	46.7	22.9	21.7
25 to 34 years .....	1,122	460	358	125	179	16.4	6.9	34.1	41.0	29.3	27.1
35 to 44 years .....	632	248	160	91	132	20.3	8.0	30.8	39.3	38.0	35.3
45 to 54 years .....	375	137	112	39	87	23.0	8.8	33.8	36.4	37.6	33.7
55 to 64 years .....	228	68	75	33	52	22.3	10.1	32.2	30.0	42.0	37.3
65 years and over .....	52	23	11	7	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,816	1,289	861	371	295	12.7	6.0	42.8	45.8	24.9	23.6
16 to 19 years .....	470	266	112	74	19	8.3	4.4	59.8	56.6	10.4	19.6
20 to 24 years .....	491	258	157	42	35	9.7	4.8	39.0	52.4	25.2	15.7
25 to 34 years .....	868	387	290	102	88	12.4	6.1	40.4	44.6	28.6	21.9
35 to 44 years .....	536	202	172	84	78	15.7	8.2	36.9	37.8	29.3	30.2
45 to 54 years .....	261	96	81	41	43	17.3	8.4	39.2	36.9	28.7	31.9
55 to 64 years .....	159	69	44	20	25	16.2	6.3	38.3	43.6	30.9	28.7
65 years and over .....	30	10	5	8	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,804	2,168	1,479	553	604	14.0	6.1	41.2	45.1	25.7	24.1
Men .....	2,826	1,256	847	312	411	15.4	6.2	39.0	44.4	27.2	25.6
Women .....	1,978	912	631	242	193	12.0	5.9	44.7	46.1	23.5	22.0
Black, 16 years and over .....	1,496	611	444	215	226	16.5	7.3	33.9	40.8	33.9	29.5
Men .....	750	279	236	109	126	18.2	8.4	31.1	37.3	38.3	31.3
Women .....	746	332	209	106	100	14.8	6.4	36.9	44.5	29.3	27.6
Men, 16 years and over:											
Married, spouse present .....	1,482	584	435	189	273	18.3	7.5	33.3	39.4	34.3	31.2
Widowed, divorced, or separated .....	477	191	134	65	87	18.4	8.2	32.8	40.1	32.8	31.9
Single (never married) .....	1,752	807	561	189	195	13.6	5.8	43.2	46.0	23.4	21.9
Women, 16 years and over:											
Married, spouse present .....	1,169	521	407	136	106	11.7	6.1	44.1	44.5	22.2	20.7
Widowed, divorced, or separated .....	619	254	178	102	85	15.6	7.3	34.4	41.0	32.7	30.2
Single (never married) .....	1,027	515	276	133	104	12.0	5.0	46.3	50.1	23.3	23.0

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
	December 1987							Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
<b>OCCUPATION</b>											
Managerial and professional specialty .....	605	256	206	60	83	14.6	7.1	37.3	42.4	29.7	23.6
Technical, sales, and administrative support .....	1,329	562	407	190	170	14.5	6.8	38.7	42.3	30.0	27.1
Service occupations .....	1,146	488	379	155	126	13.6	6.6	40.8	42.4	24.1	24.5
Precision production, craft, and repair .....	738	347	205	86	101	15.7	5.8	37.1	47.0	29.5	25.2
Operators, fabricators, and laborers .....	1,667	725	496	184	263	15.7	6.3	36.8	43.5	30.4	26.8
Farming, forestry, and fishing .....	286	133	95	33	25	12.3	5.7	46.9	46.5	17.2	20.2
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	222	107	71	26	17	12.4	5.3	47.3	48.4	14.8	19.5
Construction .....	686	316	224	61	84	13.3	5.9	43.9	46.1	23.0	21.2
Manufacturing .....	1,085	454	282	161	189	17.3	6.9	34.0	41.8	33.4	32.2
Durable goods .....	602	240	156	96	110	18.0	7.9	31.2	39.8	37.9	34.2
Nondurable goods .....	483	214	126	65	79	16.4	6.2	37.7	44.2	27.5	29.8
Transportation and public utilities .....	314	145	98	35	36	12.2	5.7	38.9	46.2	31.1	22.6
Wholesale and retail trade .....	1,324	554	438	172	161	14.6	6.6	39.0	41.8	25.7	25.1
Finance and service industries .....	1,729	775	550	200	205	13.3	6.3	40.0	44.8	27.3	23.4
Public administration .....	191	58	66	34	32	18.6	9.1	34.5	30.4	41.0	34.9
No previous work experience .....	727	357	192	101	78	13.3	5.2	51.0	49.1	19.7	24.5

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

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

Sex, age, and race	December 1987								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	6,526	5,505	22.0	6.5	77.4	34.0	16.6	4.3	1.61
16 to 19 years .....	1,141	1,084	11.1	2.0	86.0	22.6	12.9	2.5	1.37
20 to 24 years .....	1,122	966	20.7	4.2	81.2	33.1	13.7	1.4	1.54
25 to 34 years .....	1,989	1,649	25.7	8.9	76.0	40.1	16.8	4.7	1.72
35 to 44 years .....	1,168	937	27.6	8.0	73.3	37.0	20.8	5.4	1.72
45 to 54 years .....	636	516	25.6	9.1	71.5	34.3	17.4	8.7	1.67
55 to 64 years .....	387	289	23.9	10.0	70.2	34.9	21.5	5.9	1.66
65 years and over .....	83	64	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men, 16 years and over .....	3,711	3,036	23.9	6.0	79.6	32.1	17.7	4.9	1.64
16 to 19 years .....	671	626	12.0	1.3	89.5	21.7	13.3	1.8	1.39
20 to 24 years .....	631	521	23.2	2.1	85.8	29.2	16.3	1.3	1.58
25 to 34 years .....	1,122	893	28.3	8.4	77.7	40.1	18.0	5.2	1.78
35 to 44 years .....	632	487	32.2	8.8	74.7	34.3	20.7	6.8	1.78
45 to 54 years .....	375	301	25.6	9.6	67.4	30.9	18.9	12.6	1.65
55 to 64 years .....	228	168	22.0	9.5	73.2	32.7	22.0	6.5	1.66
65 years and over .....	52	39	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,816	2,469	19.7	7.2	74.6	36.5	15.3	3.7	1.57
16 to 19 years .....	470	457	9.8	3.1	81.4	24.1	12.5	3.3	1.34
20 to 24 years .....	491	444	17.8	6.8	76.1	37.8	10.4	1.6	1.50
25 to 34 years .....	868	756	22.5	9.4	73.9	40.2	15.3	4.1	1.65
35 to 44 years .....	536	450	22.7	7.1	71.8	40.0	20.7	4.0	1.66
45 to 54 years .....	261	215	25.6	8.4	77.2	38.6	15.3	3.3	1.68
55 to 64 years .....	159	121	26.4	10.7	66.1	38.0	20.7	5.8	1.68
65 years and over .....	30	25	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,804	3,920	21.9	6.9	77.0	36.5	17.0	4.9	1.64
Men .....	2,826	2,230	23.7	6.9	79.5	33.9	17.6	5.5	1.67
Women .....	1,978	1,689	19.6	6.9	73.7	39.9	16.2	4.2	1.61
Black, 16 years and over .....	1,496	1,391	22.0	5.8	79.6	27.0	13.8	2.6	1.51
Men .....	750	692	24.6	3.6	81.6	26.3	15.8	3.0	1.55
Women .....	746	698	19.5	7.9	77.7	27.5	11.7	2.3	1.47

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

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

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

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

Sex and reason	December 1987								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	6,526	5,505	22.0	6.5	77.4	34.0	16.6	4.3	1.61
Job losers <sup>1</sup> .....	3,206	2,303	30.0	8.6	77.3	35.6	19.1	5.0	1.76
Job leavers .....	856	856	20.8	6.9	79.2	42.2	15.2	2.9	1.67
Reentrants .....	1,738	1,631	15.8	5.6	73.9	32.8	14.0	5.3	1.47
New entrants .....	727	715	12.2	1.7	83.2	22.0	16.5	1.8	1.37
Men, 16 years and over .....	3,711	3,036	23.9	6.0	79.6	32.1	17.7	4.9	1.64
Job losers <sup>1</sup> .....	2,215	1,601	30.5	8.4	79.0	33.4	19.3	5.5	1.76
Job leavers .....	435	440	19.8	3.0	80.7	42.5	14.8	3.9	1.65
Reentrants .....	713	656	17.5	5.0	76.4	29.0	14.2	5.9	1.48
New entrants .....	348	341	10.6	.9	86.8	18.2	20.5	1.2	1.38
Women, 16 years and over .....	2,816	2,469	19.7	7.2	74.6	36.5	15.3	3.7	1.57
Job losers <sup>1</sup> .....	991	702	28.8	8.8	73.5	40.7	18.7	3.8	1.74
Job leavers .....	420	417	21.8	11.0	77.5	41.7	15.6	1.9	1.70
Reentrants .....	1,026	976	14.4	5.8	72.2	35.5	13.7	4.7	1.46
New entrants .....	379	374	13.9	2.7	79.9	25.4	12.8	2.4	1.37

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
All industries .....	110,588	113,679	60,975	62,265	49,613	51,414
16 to 19 years .....	6,117	6,498	3,016	3,230	3,102	3,268
16 to 17 years .....	2,533	2,673	1,211	1,305	1,321	1,368
18 to 19 years .....	3,585	3,825	1,805	1,925	1,780	1,900
20 to 24 years .....	13,609	13,259	7,075	6,797	6,534	6,462
25 to 54 years .....	76,483	79,170	42,394	43,621	34,090	35,550
25 to 34 years .....	32,640	33,450	18,224	18,567	14,417	14,883
35 to 44 years .....	26,651	27,774	14,558	15,131	12,093	12,643
45 to 54 years .....	17,192	17,946	9,612	9,923	7,580	8,024
55 to 64 years .....	11,469	11,625	6,728	6,715	4,740	4,910
55 to 59 years .....	6,935	6,966	4,046	3,996	2,889	2,970
60 to 64 years .....	4,534	4,659	2,682	2,719	1,852	1,940
65 years and over .....	2,909	3,126	1,762	1,902	1,147	1,224
Agriculture .....	2,826	2,874	2,254	2,266	572	608
16 to 19 years .....	153	175	126	144	27	31
16 to 17 years .....	75	92	59	75	16	17
18 to 19 years .....	78	83	67	69	11	14
20 to 24 years .....	315	296	294	267	20	29
25 to 54 years .....	1,720	1,716	1,308	1,291	412	425
25 to 34 years .....	763	709	593	550	170	160
35 to 44 years .....	518	540	387	398	132	142
45 to 54 years .....	439	466	328	343	110	123
55 to 64 years .....	384	422	308	325	77	97
55 to 59 years .....	196	213	155	164	41	49
60 to 64 years .....	188	209	153	161	36	48
65 years and over .....	254	265	218	239	36	27
Nonagricultural industries .....	107,762	110,805	56,721	59,999	49,041	50,806
16 to 19 years .....	5,964	6,323	2,890	3,086	3,074	3,238
16 to 17 years .....	2,457	2,582	1,152	1,230	1,305	1,352
18 to 19 years .....	3,507	3,742	1,738	1,856	1,769	1,886
20 to 24 years .....	13,295	12,963	6,781	6,530	6,514	6,433
25 to 54 years .....	74,763	77,454	41,086	42,330	33,677	35,124
25 to 34 years .....	31,878	32,741	17,631	18,017	14,247	14,723
35 to 44 years .....	26,133	27,234	14,171	14,733	11,962	12,501
45 to 54 years .....	16,753	17,480	9,283	9,580	7,470	7,900
55 to 64 years .....	11,084	11,203	6,421	6,390	4,664	4,813
55 to 59 years .....	6,739	6,753	3,891	3,832	2,848	2,921
60 to 64 years .....	4,345	4,450	2,529	2,558	1,816	1,892
65 years and over .....	2,655	2,861	1,544	1,663	1,111	1,198



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	110,588	113,679	60,975	62,265	49,613	51,414
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	24.7	25.1	25.0	25.4	24.4	24.7
Executive, administrative, and managerial .....	11.6	11.9	13.0	13.4	10.0	10.1
Professional specialty .....	13.1	13.2	12.0	11.9	14.4	14.7
Technical, sales, and administrative support .....	31.7	31.6	20.5	20.3	45.4	45.3
Technicians and related support .....	3.0	3.0	2.8	2.9	3.2	3.1
Sales occupations .....	12.5	12.3	11.8	11.4	13.4	13.3
Administrative support, including clerical .....	16.1	16.4	5.9	6.0	28.7	28.9
Service occupations .....	13.5	13.4	9.7	9.8	18.1	17.8
Private household .....	.9	.8	.1	.1	1.9	1.7
Protective service .....	1.7	1.7	2.7	2.7	.5	.5
Service, except private household and protective .....	10.9	10.9	7.0	7.0	15.7	15.6
Precision production, craft, and repair .....	12.2	11.8	20.1	19.7	2.5	2.2
Operators, fabricators, and laborers .....	15.4	15.4	20.7	20.7	8.8	9.0
Machine operators, assemblers, and inspectors .....	7.0	7.1	7.5	7.4	6.3	6.6
Transportation and material moving occupations .....	4.2	4.1	6.9	6.9	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.2	4.3	6.3	6.4	1.7	1.7
Farming, forestry, and fishing .....	2.6	2.6	4.0	4.0	.9	.9
<b>White</b>						
Total, 16 years and over (thousands) .....	96,388	98,639	53,786	54,729	42,602	43,910
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.7	26.1	26.0	26.4	25.3	25.7
Executive, administrative, and managerial .....	12.3	12.5	13.7	14.1	10.5	10.5
Professional specialty .....	13.4	13.6	12.3	12.3	14.8	15.2
Technical, sales, and administrative support .....	32.2	32.0	20.9	20.7	46.4	46.2
Technicians and related support .....	3.0	3.0	2.9	2.9	3.3	3.0
Sales occupations .....	13.2	12.9	12.5	12.1	14.0	13.8
Administrative support, including clerical .....	16.0	16.2	5.6	5.7	29.1	29.3
Service occupations .....	12.2	12.2	8.7	8.7	16.7	16.5
Private household .....	.8	.7	.1	.1	1.7	1.5
Protective service .....	1.6	1.7	2.5	2.6	.4	.5
Service, except private household and protective .....	9.8	9.8	6.1	6.1	14.6	14.5
Precision production, craft, and repair .....	12.6	12.3	20.6	20.4	2.4	2.3
Operators, fabricators, and laborers .....	14.6	14.6	19.6	19.6	8.2	8.4
Machine operators, assemblers, and inspectors .....	6.6	6.6	7.2	7.1	5.8	6.0
Transportation and material moving occupations .....	4.0	3.9	6.5	6.4	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.0	4.1	5.9	6.1	1.6	1.6
Farming, forestry, and fishing .....	2.7	2.8	4.1	4.2	1.0	1.0
<b>Black</b>						
Total, 16 years and over (thousands) .....	10,980	11,631	5,489	5,716	5,491	5,915
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.2	16.0	12.9	14.2	17.5	17.7
Executive, administrative, and managerial .....	6.3	7.2	6.2	7.4	6.3	7.0
Professional specialty .....	8.9	8.8	6.7	6.8	11.2	10.8
Technical, sales, and administrative support .....	27.2	27.9	16.2	16.1	38.3	39.3
Technicians and related support .....	2.3	2.6	1.8	1.8	2.7	3.4
Sales occupations .....	7.3	7.5	5.6	5.4	9.0	9.5
Administrative support, including clerical .....	17.7	17.8	8.7	8.9	26.6	26.4
Service occupations .....	23.4	23.3	18.3	18.7	28.5	27.7
Private household .....	1.9	1.7	.1	.1	3.8	3.2
Protective service .....	2.8	2.3	4.4	3.7	1.1	1.0
Service, except private household and protective .....	18.7	19.2	13.8	14.9	23.6	23.4
Precision production, craft, and repair .....	9.3	8.4	16.1	15.1	2.5	2.0
Operators, fabricators, and laborers .....	23.1	22.8	33.3	32.9	12.9	13.1
Machine operators, assemblers, and inspectors .....	10.2	10.2	10.5	10.6	9.8	9.9
Transportation and material moving occupations .....	6.6	6.2	11.9	11.6	1.2	1.0
Handlers, equipment cleaners, helpers, and laborers .....	6.4	6.3	10.9	10.7	1.8	2.1
Farming, forestry, and fishing .....	1.8	1.7	3.3	3.1	.3	.3

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

(In thousands)

Age and sex	December 1987								
	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 .....	102,239	1,135	17,206	83,898	8,317	249	1,403	1,350	121
16 to 19 years .....	6,262	195	290	5,778	56	6	142	12	20
16 to 17 years .....	2,548	142	73	2,333	31	2	73	6	13
18 to 19 years .....	3,714	52	217	3,444	24	4	69	7	8
20 to 24 years .....	12,638	119	1,097	11,422	304	22	230	59	6
25 to 34 years .....	30,757	221	4,566	25,971	1,942	42	446	250	13
35 to 44 years .....	24,693	172	5,371	19,150	2,452	88	255	261	25
45 to 54 years .....	15,721	148	3,420	12,154	1,709	50	161	282	23
55 to 64 years .....	9,904	159	2,079	7,666	1,264	35	113	286	23
55 to 59 years .....	5,973	81	1,301	4,591	760	20	73	131	9
60 to 64 years .....	3,932	79	778	3,075	504	15	39	155	14
65 years and over .....	2,264	122	384	1,757	590	7	56	199	10
Men, 16 years and over .....	54,582	130	8,136	46,316	5,392	25	1,093	1,135	38
16 to 19 years .....	3,054	30	130	2,895	29	3	118	11	16
16 to 17 years .....	1,216	25	25	1,166	15	-	58	4	13
18 to 19 years .....	1,838	5	105	1,729	14	3	60	7	3
20 to 24 years .....	6,346	29	456	5,862	175	9	208	55	4
25 to 34 years .....	16,820	29	2,180	14,611	1,195	3	331	215	3
35 to 44 years .....	13,149	14	2,544	10,591	1,580	4	174	219	5
45 to 54 years .....	8,445	5	1,598	6,841	1,133	2	128	214	1
55 to 64 years .....	5,518	14	1,046	4,458	870	2	83	237	5
55 to 59 years .....	3,304	10	644	2,650	527	1	55	108	1
60 to 64 years .....	2,214	4	402	1,808	343	1	27	129	4
65 years and over .....	1,250	9	183	1,058	411	2	51	184	3
Women, 16 years and over .....	47,657	1,005	9,070	37,582	2,925	224	310	216	83
16 to 19 years .....	3,208	165	160	2,883	27	3	25	2	4
16 to 17 years .....	1,332	117	48	1,167	17	3	15	2	-
18 to 19 years .....	1,876	48	112	1,716	10	-	9	-	5
20 to 24 years .....	6,292	90	641	5,561	129	12	22	4	2
25 to 34 years .....	13,937	192	2,386	11,360	747	39	114	36	10
35 to 44 years .....	11,544	158	2,828	8,559	872	85	81	42	20
45 to 54 years .....	7,276	143	1,821	5,312	576	48	33	68	23
55 to 64 years .....	4,386	145	1,033	3,208	394	32	30	49	18
55 to 59 years .....	2,669	71	657	1,941	233	19	18	23	8
60 to 64 years .....	1,717	74	376	1,267	162	13	12	26	9
65 years and over .....	1,014	113	201	699	179	5	5	15	7

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	December 1987												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	2,874	84	67	13	23	118		15	60	19	32	25	2,416
Mining .....	830	158	93	47	15	87		6	244	20	124	34	1
Construction .....	7,354	897	113	49	86	456		31	4,239	124	459	881	18
Manufacturing .....	20,937	2,345	1,708	667	778	2,446		420	3,974	6,551	810	1,148	89
Durable goods .....	12,421	1,424	1,152	467	307	1,351		215	2,769	3,638	449	578	73
Nondurable goods .....	8,516	921	556	201	472	1,095		204	1,205	2,914	362	570	17
Transportation and public utilities .....	8,215	886	499	308	305	2,337		269	1,230	120	1,773	482	6
Wholesale and retail trade .....	23,904	1,955	424	98	10,018	2,434		4,322	1,539	357	905	1,815	37
Wholesale trade .....	4,425	467	86	22	1,721	778		48	344	152	455	335	18
Retail trade .....	19,480	1,488	339	76	8,297	1,656		4,275	1,196	205	449	1,480	19
Finance, insurance, and real estate .....	7,931	1,955	199	109	1,920	3,201	-	294	138	18	9	30	56
Services .....	36,401	4,109	11,129	1,884	766	6,171	921	7,658	1,764	767	493	397	342
Private households .....	1,148	-	6	4	-	11	921	107	7	1	11	21	62
Other service industries .....	35,253	4,109	11,123	1,881	767	6,160	-	7,550	1,757	766	482	376	280
Professional services .....	23,621	2,278	9,881	1,531	147	4,483		4,272	361	181	291	135	62
Public administration .....	5,233	1,158	739	216	20	1,355		1,313	242	45	66	48	30

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

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Dec. 1986	Dec. 1987	Total		Wage and salary workers <sup>1</sup>			
			Dec. 1986	Dec. 1987	Paid absences		Unpaid absences	
					Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1987
Total, 16 years and over .....	3,786	3,794	3,651	3,649	1,452	1,512	1,716	1,648
Vacation .....	1,224	1,175	1,199	1,140	791	786	280	228
Illness .....	1,261	1,404	1,229	1,369	474	509	649	764
Bad weather .....	177	126	151	97	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	48	24	48	24	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons <sup>3</sup> .....	1,076	1,063	1,024	1,019	186	218	786	656
Men, 16 years and over .....	2,103	2,064	1,984	1,946	819	804	839	823
Vacation .....	744	698	721	667	511	461	129	125
Illness .....	698	758	670	731	258	272	344	403
All other reasons <sup>3</sup> .....	662	608	593	548	50	71	366	295
Women, 16 years and over .....	1,683	1,730	1,667	1,703	635	707	876	824
Vacation .....	480	477	478	473	281	325	151	102
Illness .....	564	646	559	638	217	235	305	361
All other reasons <sup>3</sup> .....	640	606	630	593	137	147	420	361

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

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

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



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

Hours of work	December 1987					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	109,885	2,729	107,157	100.0	100.0	100.0
1 to 34 hours .....	25,945	903	25,041	23.6	33.1	23.4
1 to 4 hours .....	779	36	743	.7	1.3	.7
5 to 14 hours .....	4,738	236	4,501	4.3	8.6	4.2
15 to 29 hours .....	12,951	429	12,523	11.8	15.7	11.7
30 to 34 hours .....	7,477	202	7,274	6.8	7.4	6.8
35 hours and over .....	83,940	1,826	82,116	76.4	66.9	76.6
35 to 39 hours .....	7,333	140	7,193	6.7	5.1	6.7
40 hours .....	43,749	570	43,180	39.8	20.9	40.3
41 hours and over .....	32,858	1,116	31,743	29.9	40.9	29.6
41 to 48 hours .....	11,805	254	11,551	10.7	9.3	10.8
49 to 59 hours .....	12,278	330	11,949	11.2	12.1	11.2
60 hours and over .....	8,775	532	8,243	8.0	19.5	7.7
Average hours, total at work .....	39.3	41.1	39.3			
Average hours, workers on full-time schedules .....	43.8	48.9	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 1987					
	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 .....	25,945	6,822	19,123	25,041	6,498	18,544
Economic reasons .....	5,166	1,734	3,432	4,910	1,604	3,306
Slack work .....	2,327	1,412	915	2,133	1,289	844
Material shortages or repairs to plant and equipment .....	58	58	-	57	57	-
New job started during week .....	177	177	-	175	175	-
Job terminated during week .....	87	87	-	84	84	-
Could find only part-time work .....	2,517	-	2,517	2,462	-	2,462
Other reasons .....	20,778	5,087	15,691	20,131	4,893	15,238
Does not want, or unavailable for, full-time work .....	13,224	-	13,224	12,904	-	12,904
Vacation .....	1,280	1,280	-	1,261	1,261	-
Illness .....	1,855	1,686	169	1,821	1,666	155
Bad weather .....	355	355	-	303	303	-
Industrial dispute .....	6	6	-	6	6	-
Legal or religious holiday .....	130	130	-	126	126	-
Full time for this job .....	1,761	-	1,761	1,712	-	1,712
All other reasons .....	2,169	1,632	537	1,998	1,532	466
Average hours:						
Economic reasons .....	22.0	24.2	20.9	22.0	24.4	20.9
Other reasons .....	21.1	26.3	19.4	21.1	26.5	19.4
Worked 30 to 34 hours:						
Economic reasons .....	1,641	776	865	1,557	726	831
Other reasons .....	5,836	2,770	3,066	5,717	2,714	3,003

**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 1987								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	107,157	4,910	15,238	87,009	55,266	11,551	20,192	39.3	43.7
Wage and salary workers .....	99,052	4,333	13,811	80,908	52,533	10,941	17,434	39.1	43.3
Mining .....	764	12	24	728	385	102	241	45.1	46.3
Construction .....	5,740	405	296	5,039	3,440	628	971	39.9	42.5
Manufacturing .....	19,871	511	714	18,646	11,670	3,114	3,862	42.1	43.5
Durable goods .....	11,799	218	325	11,256	6,946	1,894	2,416	42.6	43.6
Nondurable goods .....	8,071	293	389	7,389	4,722	1,221	1,446	41.4	43.3
Transportation and public utilities .....	7,540	236	444	6,860	4,260	955	1,645	42.3	44.4
Wholesale and retail trade .....	21,339	1,343	5,212	14,784	8,689	2,221	3,874	37.1	44.3
Finance, insurance, and real estate .....	7,090	110	667	6,313	4,378	830	1,105	39.8	42.2
Service industries .....	31,670	1,676	6,192	23,802	16,174	2,640	4,988	37.1	43.0
Private households .....	1,118	221	494	403	266	35	102	25.8	45.1
All other industries .....	30,552	1,455	5,698	23,399	15,908	2,605	4,886	37.5	43.0
Public administration .....	5,037	39	262	4,736	3,535	451	750	40.7	42.1
Self-employed workers .....	7,855	572	1,333	5,950	2,656	594	2,700	41.2	48.5
Unpaid family workers .....	249	6	94	149	76	16	57	36.7	46.5

**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 1987							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	107,157	4,910	15,238	87,009	55,266	31,743	39.3	43.7
16 to 19 years .....	6,190	466	3,731	1,993	1,530	463	24.7	40.5
16 to 17 years .....	2,529	98	2,209	222	187	35	17.7	38.1
18 to 19 years .....	3,661	368	1,522	1,771	1,343	428	29.6	40.9
20 years and over .....	100,967	4,444	11,507	85,016	53,736	31,280	40.2	43.8
20 to 24 years .....	12,666	859	2,132	9,675	6,579	3,096	37.3	42.5
25 years and over .....	88,300	3,584	9,375	75,341	47,158	28,183	40.6	43.9
25 to 44 years .....	58,100	2,411	5,212	50,477	31,121	19,356	41.1	44.1
45 to 64 years .....	27,533	1,058	2,852	23,623	15,174	8,449	40.5	43.7
65 years and over .....	2,667	116	1,312	1,239	862	377	29.3	42.5
<b>Men, 16 years and over</b> .....	58,054	2,176	4,570	51,308	29,049	22,259	42.2	45.2
16 to 19 years .....	3,015	225	1,748	1,042	770	272	25.3	40.9
16 to 17 years .....	1,203	48	1,035	120	98	22	18.1	38.2
18 to 19 years .....	1,812	177	713	922	672	250	30.1	41.2
20 years and over .....	55,039	1,951	2,822	50,266	28,279	21,987	43.1	45.2
20 to 24 years .....	6,392	417	884	5,091	3,184	1,907	38.9	43.6
25 years and over .....	48,647	1,535	1,937	45,175	25,094	20,081	43.7	45.5
25 to 44 years .....	31,818	1,023	761	30,034	16,291	13,743	44.3	45.7
45 to 64 years .....	15,274	446	515	14,313	8,266	6,047	43.6	45.1
65 years and over .....	1,555	65	662	828	537	291	31.2	43.0
<b>Women, 16 years and over</b> .....	49,103	2,734	10,668	35,701	26,217	9,484	35.8	41.6
16 to 19 years .....	3,175	241	1,983	951	760	191	24.2	40.2
16 to 17 years .....	1,326	50	1,175	101	87	14	17.4	( <sup>1</sup> )
18 to 19 years .....	1,849	191	809	849	670	179	29.1	40.5
20 years and over .....	45,928	2,493	8,685	34,750	25,458	9,292	36.6	41.6
20 to 24 years .....	6,274	443	1,248	4,583	3,393	1,190	35.7	41.3
25 years and over .....	39,654	2,050	7,437	30,167	22,064	8,103	36.7	41.7
25 to 44 years .....	26,282	1,388	4,451	20,443	14,830	5,613	37.1	41.7
45 to 64 years .....	12,259	612	2,337	9,310	6,907	2,403	36.6	41.6
65 years and over .....	1,113	51	649	413	326	87	26.5	41.6
<b>RACE</b>								
White, 16 years and over .....	92,889	3,909	13,770	75,210	46,312	28,898	39.4	44.0
Men .....	50,988	1,746	4,053	45,189	24,723	20,466	42.5	45.4
Women .....	41,901	2,163	9,717	30,021	21,590	8,431	35.6	41.7
Black, 16 years and over .....	11,001	873	1,051	9,077	7,085	1,992	38.0	41.7
Men .....	5,352	389	347	4,616	3,381	1,235	39.6	42.7
Women .....	5,649	484	704	4,461	3,704	757	36.6	40.6
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,930	938	1,362	35,630	19,188	16,442	44.2	45.7
Widowed, divorced, or separated .....	5,517	305	237	4,975	2,915	2,060	42.6	45.0
Single (never married) .....	14,606	932	2,971	10,703	6,946	3,756	36.9	43.4
Women, 16 years and over:								
Married, spouse present .....	27,158	1,358	6,259	19,541	14,668	4,873	35.5	41.3
Widowed, divorced, or separated .....	9,584	569	1,214	7,801	5,418	2,383	38.4	42.3
Single (never married) .....	12,361	806	3,196	8,359	6,132	2,227	34.3	41.6

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	December 1987								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup> .....	107,049	4,900	15,242	86,908	55,117	11,571	20,219	39.3	43.7
Managerial and professional specialty .....	27,739	503	2,579	24,657	13,493	3,163	8,002	42.5	45.3
Executive, administrative, and managerial .....	13,176	151	655	12,370	6,413	1,569	4,387	44.4	46.0
Professional specialty .....	14,563	352	1,924	12,287	7,079	1,593	3,614	40.7	44.7
Technical, sales, and administrative support .....	34,873	1,195	6,328	27,350	18,613	3,346	5,392	37.9	42.8
Technicians and related support .....	3,270	81	400	2,810	1,920	370	519	39.6	42.7
Sales occupations .....	13,494	627	2,883	9,984	5,167	1,344	3,473	39.4	45.9
Administrative support, including clerical .....	18,110	508	3,046	14,557	11,526	1,631	1,400	36.6	40.7
Service occupations .....	14,720	1,526	4,272	8,922	6,346	1,009	1,567	33.5	42.7
Private household .....	906	177	433	296	203	29	64	24.3	43.1
Protective service .....	1,850	51	201	1,598	974	194	429	41.7	45.3
Service, except private household and protective .....	11,964	1,298	3,637	7,028	5,168	787	1,074	32.9	42.1
Precision production, craft, and repair .....	12,909	581	438	11,890	7,475	1,874	2,542	41.8	43.5
Operators, fabricators, and laborers .....	16,808	1,095	1,625	14,088	9,191	2,181	2,717	39.8	43.5
Machine operators, assemblers, and inspectors .....	7,732	355	372	7,005	4,779	1,203	1,023	40.8	42.6
Transportation and material moving occupations .....	4,441	247	377	3,817	2,048	520	1,249	42.9	46.6
Handlers, equipment cleaners, helpers, and laborers .....	4,635	492	876	3,267	2,364	458	445	35.4	41.8
Men, 16 years and over <sup>1</sup> .....	57,816	2,160	4,525	51,131	28,846	7,260	15,026	42.3	45.2
Managerial and professional specialty .....	15,426	226	736	14,463	6,786	1,846	5,831	45.4	47.2
Executive, administrative, and managerial .....	8,181	81	257	7,842	3,460	970	3,412	46.5	47.7
Professional specialty .....	7,245	145	479	6,621	3,326	876	2,419	44.1	46.6
Technical, sales, and administrative support .....	12,350	270	1,160	10,919	5,826	1,546	3,547	42.6	45.6
Technicians and related support .....	1,736	21	114	1,601	1,031	207	363	41.7	43.6
Sales occupations .....	6,949	159	632	6,158	2,632	853	2,873	44.7	47.8
Administrative support, including clerical .....	3,664	90	414	3,160	2,163	486	511	39.1	42.4
Service occupations .....	5,886	420	1,230	4,236	2,806	517	913	36.8	43.9
Private household .....	36	16	10	11	9	1	-	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,603	30	136	1,437	853	185	399	42.9	45.6
Service, except private household and protective .....	4,247	374	1,084	2,789	1,944	330	514	34.6	43.1
Precision production, craft, and repair .....	11,818	526	322	10,970	6,830	1,731	2,409	42.1	43.6
Operators, fabricators, and laborers .....	12,337	718	1,076	10,543	6,597	1,619	2,326	40.7	44.1
Machine operators, assemblers, and inspectors .....	4,480	140	137	4,203	2,729	744	731	42.1	43.4
Transportation and material moving occupations .....	4,049	194	247	3,607	1,906	502	1,199	43.8	46.6
Handlers, equipment cleaners, helpers, and laborers .....	3,808	384	691	2,732	1,962	374	396	35.8	42.0
Women, 16 years and over <sup>1</sup> .....	49,233	2,739	10,717	35,777	26,271	4,312	5,193	35.8	41.6
Managerial and professional specialty .....	12,313	276	1,842	10,194	6,707	1,317	2,170	38.8	42.7
Executive, administrative, and managerial .....	4,995	70	397	4,528	2,954	599	975	41.0	43.1
Professional specialty .....	7,318	207	1,445	5,666	3,754	718	1,195	37.3	42.5
Technical, sales, and administrative support .....	22,524	925	5,168	16,431	12,787	1,799	1,845	35.4	40.9
Technicians and related support .....	1,534	39	285	1,209	890	163	156	37.2	41.4
Sales occupations .....	6,545	468	2,251	3,826	2,535	492	799	33.6	42.8
Administrative support, including clerical .....	14,446	417	2,632	11,396	9,363	1,145	889	35.9	40.2
Service occupations .....	8,834	1,106	3,042	4,686	3,539	492	654	31.3	41.5
Private household .....	870	161	424	286	194	28	64	24.2	43.2
Protective service .....	247	21	65	161	121	8	31	33.5	41.8
Service, except private household and protective .....	7,717	924	2,553	4,240	3,224	456	560	32.0	41.4
Precision production, craft, and repair .....	1,091	56	115	920	645	143	133	38.9	42.2
Operators, fabricators, and laborers .....	4,471	377	550	3,545	2,593	561	391	37.5	41.6
Machine operators, assemblers, and inspectors .....	3,251	215	235	2,801	2,050	459	293	39.0	41.5
Transportation and material moving occupations .....	393	54	130	209	141	18	50	34.1	45.6
Handlers, equipment cleaners, helpers, and laborers .....	827	108	185	534	402	84	49	33.5	40.9

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and sex	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	183,297	183,575	183,738	183,915	184,079	184,259	184,421	184,605	184,738	184,904	185,052	185,225	185,370
Labor force <sup>1</sup> .....	120,326	120,726	120,970	120,982	121,098	121,633	121,326	121,610	122,042	121,706	122,128	122,349	122,472
Percent of population <sup>2</sup> .....	65.6	65.8	65.8	65.8	65.8	66.0	65.8	65.9	66.1	65.8	66.0	66.1	66.1
Total employed <sup>1</sup> .....	112,407	112,762	113,084	113,191	113,541	114,060	114,018	114,359	114,786	114,615	114,951	115,259	115,494
Employment-population ratio <sup>3</sup> .....	61.3	61.4	61.5	61.5	61.7	61.9	61.8	61.9	62.1	62.0	62.1	62.2	62.3
Resident Armed Forces .....	1,750	1,748	1,740	1,736	1,735	1,726	1,718	1,720	1,736	1,743	1,741	1,755	1,750
Civilian employed .....	110,657	111,014	111,344	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744
Agriculture .....	3,153	3,174	3,225	3,237	3,250	3,269	3,192	3,212	3,143	3,184	3,249	3,172	3,215
Nonagricultural industries .....	107,504	107,840	108,119	108,218	108,556	109,065	109,108	109,427	109,907	109,688	109,961	110,332	110,529
Unemployed .....	7,919	7,964	7,886	7,791	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978
Unemployment rate <sup>4</sup> .....	6.6	6.6	6.5	6.4	6.2	6.2	6.0	6.0	5.9	5.8	5.9	5.8	5.7
Not in labor force .....	62,971	62,849	62,768	62,933	62,981	62,626	63,095	62,995	62,696	63,198	62,924	62,876	62,898
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	87,868	88,020	88,099	88,186	88,271	88,361	88,442	88,534	88,598	88,683	88,756	88,849	88,924
Labor force <sup>1</sup> .....	67,409	67,602	67,655	67,590	67,604	67,802	67,623	67,671	67,937	67,776	67,947	68,019	68,030
Percent of population <sup>2</sup> .....	76.7	76.8	76.8	76.6	76.6	76.7	76.5	76.4	76.7	76.4	76.6	76.6	76.5
Total employed <sup>1</sup> .....	62,960	63,153	63,281	63,263	63,390	63,543	63,543	63,711	63,916	63,949	64,048	64,174	64,245
Employment-population ratio <sup>3</sup> .....	71.7	71.7	71.8	71.7	71.8	71.9	71.8	72.0	72.1	72.1	72.2	72.2	72.2
Resident Armed Forces .....	1,593	1,591	1,584	1,575	1,575	1,566	1,559	1,561	1,575	1,581	1,580	1,593	1,589
Civilian employed .....	61,367	61,562	61,697	61,688	61,815	61,977	61,984	62,150	62,341	62,368	62,468	62,581	62,656
Unemployed .....	4,449	4,449	4,374	4,327	4,214	4,259	4,080	3,960	4,021	3,827	3,899	3,845	3,785
Unemployment rate <sup>4</sup> .....	6.6	6.6	6.5	6.4	6.2	6.3	6.0	5.9	5.9	5.6	5.7	5.7	5.6
Not in labor force .....	20,459	20,418	20,444	20,596	20,667	20,559	20,819	20,863	20,661	20,907	20,809	20,830	20,894
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	95,429	95,556	95,639	95,729	95,808	95,898	95,979	96,071	96,140	96,221	96,295	96,376	96,446
Labor force <sup>1</sup> .....	52,917	53,124	53,315	53,392	53,494	53,831	53,703	53,939	54,105	53,930	54,181	54,330	54,442
Percent of population <sup>2</sup> .....	55.5	55.6	55.7	55.8	55.8	56.1	56.0	56.1	56.3	56.0	56.3	56.4	56.4
Total employed <sup>1</sup> .....	49,447	49,609	49,803	49,928	50,151	50,517	50,475	50,648	50,870	50,666	50,903	51,085	51,249
Employment-population ratio <sup>3</sup> .....	51.8	51.9	52.1	52.2	52.3	52.7	52.6	52.7	52.9	52.7	52.9	53.0	53.1
Resident Armed Forces .....	157	157	156	161	160	160	159	159	161	162	161	162	161
Civilian employed .....	49,290	49,452	49,647	49,767	49,991	50,357	50,316	50,489	50,709	50,504	50,742	50,923	51,088
Unemployed .....	3,470	3,515	3,512	3,464	3,343	3,314	3,228	3,291	3,235	3,264	3,278	3,245	3,193
Unemployment rate <sup>4</sup> .....	6.6	6.6	6.6	6.5	6.2	6.2	6.0	6.1	6.0	6.1	6.1	6.0	5.9
Not in labor force .....	42,512	42,432	42,324	42,337	42,314	42,067	42,276	42,132	42,035	42,291	42,114	42,046	42,004

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

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

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

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

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series. Seasonally adjusted data have been revised based on the experience through December 1987. 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	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	181,547	181,827	181,998	182,179	182,344	182,533	182,703	182,885	183,002	183,161	183,311	183,470	183,620
Civilian labor force .....	118,576	118,978	119,230	119,246	119,363	119,907	119,608	119,890	120,306	119,963	120,387	120,594	120,722
Percent of population .....	65.3	65.4	65.5	65.5	65.5	65.5	65.5	65.6	65.7	65.5	65.7	65.7	65.7
Employed .....	110,657	111,014	111,344	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744
Employment-population ratio <sup>2</sup> .....	61.0	61.1	61.2	61.2	61.3	61.5	61.5	61.6	61.8	61.6	61.8	61.9	61.9
Unemployed .....	7,919	7,964	7,886	7,791	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978
Unemployment rate .....	6.7	6.7	6.6	6.5	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	78,973	79,132	79,216	79,303	79,387	79,474	79,536	79,625	79,668	79,740	79,807	79,885	80,002
Civilian labor force .....	61,848	61,911	61,930	61,933	61,970	62,129	62,054	62,106	62,083	62,085	62,211	62,299	62,248
Percent of population .....	78.3	78.2	78.2	78.1	78.1	78.2	78.0	78.0	77.9	77.9	78.0	78.0	77.8
Employed .....	58,120	58,220	58,324	58,380	58,516	58,673	58,632	58,783	58,825	58,967	59,037	59,164	59,185
Employment-population ratio <sup>2</sup> .....	73.6	73.6	73.6	73.6	73.7	73.8	73.7	73.8	73.8	73.9	74.0	74.1	74.0
Agriculture .....	2,304	2,287	2,317	2,361	2,378	2,383	2,316	2,333	2,289	2,345	2,343	2,297	2,298
Nonagricultural industries .....	55,816	55,933	56,007	56,019	56,138	56,290	56,316	56,450	56,536	56,622	56,694	56,867	56,887
Unemployed .....	3,728	3,691	3,606	3,553	3,454	3,456	3,422	3,323	3,258	3,118	3,174	3,135	3,063
Unemployment rate .....	6.0	6.0	5.8	5.7	5.6	5.6	5.5	5.4	5.2	5.0	5.1	5.0	4.9
Not in labor force .....	17,125	17,221	17,286	17,370	17,417	17,345	17,482	17,519	17,585	17,655	17,596	17,586	17,754
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	88,016	88,150	88,237	88,321	88,395	88,464	88,546	88,632	88,685	88,785	88,843	88,923	89,010
Civilian labor force .....	48,947	49,167	49,343	49,414	49,494	49,728	49,722	49,886	49,969	49,922	50,095	50,254	50,361
Percent of population .....	55.6	55.8	55.9	55.9	56.0	56.2	56.2	56.3	56.3	56.2	56.4	56.5	56.6
Employed .....	46,121	46,290	46,485	46,582	46,761	47,028	47,088	47,206	47,308	47,251	47,480	47,634	47,750
Employment-population ratio <sup>2</sup> .....	52.4	52.5	52.7	52.7	52.9	53.2	53.2	53.3	53.3	53.2	53.4	53.6	53.6
Agriculture .....	609	625	634	602	603	629	619	620	609	600	636	636	643
Nonagricultural industries .....	45,512	45,665	45,851	45,980	46,158	46,399	46,469	46,586	46,699	46,651	46,844	46,998	47,107
Unemployed .....	2,826	2,877	2,858	2,832	2,733	2,700	2,634	2,680	2,661	2,671	2,615	2,620	2,611
Unemployment rate .....	5.8	5.9	5.8	5.7	5.5	5.4	5.3	5.4	5.3	5.4	5.2	5.2	5.2
Not in labor force .....	39,069	38,983	38,894	38,907	38,901	38,736	38,824	38,746	38,716	38,863	38,748	38,669	38,649
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,558	14,545	14,546	14,555	14,562	14,595	14,621	14,628	14,649	14,637	14,661	14,663	14,609
Civilian labor force .....	7,781	7,900	7,957	7,899	7,899	8,050	7,832	7,898	8,254	7,956	8,081	8,041	8,113
Percent of population .....	53.4	54.3	54.7	54.3	54.2	55.2	53.6	54.0	56.3	54.4	55.1	54.8	55.5
Employed .....	6,416	6,504	6,535	6,493	6,529	6,633	6,580	6,650	6,917	6,654	6,693	6,706	6,809
Employment-population ratio <sup>2</sup> .....	44.1	44.7	44.9	44.6	44.8	45.4	45.0	45.5	47.2	45.5	45.7	45.7	46.6
Agriculture .....	240	262	274	274	269	257	257	259	245	239	270	239	274
Nonagricultural industries .....	6,176	6,242	6,261	6,219	6,260	6,376	6,323	6,391	6,672	6,415	6,423	6,467	6,535
Unemployed .....	1,365	1,396	1,422	1,406	1,370	1,417	1,252	1,248	1,337	1,302	1,388	1,335	1,304
Unemployment rate .....	17.5	17.7	17.9	17.8	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1
Not in labor force .....	6,777	6,645	6,589	6,656	6,663	6,545	6,789	6,730	6,395	6,681	6,580	6,622	6,496

<sup>1</sup> The population figures are not adjusted for seasonal variation.  
<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Seasonally adjusted data have been revised based on the experience through December 1987. See the article in this issue for additional information.

**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	1986		1987										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	156,111	156,313	156,431	156,561	156,676	156,811	156,930	157,058	157,134	157,242	157,342	157,449	157,552
Civilian labor force .....	102,474	102,669	102,825	102,836	102,972	103,416	103,150	103,248	103,516	103,357	103,669	103,731	103,907
Percent of population .....	65.6	65.7	65.7	65.7	65.7	65.9	65.7	65.7	65.9	65.7	65.9	65.9	66.0
Employed .....	96,544	96,749	97,001	97,074	97,338	97,829	97,698	97,917	98,181	98,069	98,317	98,492	98,779
Employment-population ratio <sup>2</sup> .....	61.8	61.9	62.0	62.0	62.1	62.4	62.3	62.3	62.5	62.4	62.5	62.6	62.7
Unemployed .....	5,930	5,920	5,824	5,762	5,634	5,587	5,452	5,331	5,335	5,288	5,352	5,239	5,128
Unemployment rate .....	5.8	5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.2	5.1	5.2	5.1	4.9
<b>Men, 20 years and over</b>													
Civilian labor force .....	54,157	54,114	54,121	54,097	54,124	54,238	54,227	54,198	54,183	54,213	54,375	54,381	54,368
Percent of population .....	78.8	78.6	78.5	78.4	78.4	78.5	78.4	78.3	78.2	78.2	78.4	78.3	78.2
Employed .....	51,284	51,296	51,366	51,371	51,460	51,626	51,591	51,670	51,715	51,803	51,864	51,969	52,046
Employment-population ratio <sup>2</sup> .....	74.6	74.5	74.5	74.5	74.5	74.7	74.6	74.7	74.7	74.7	74.8	74.9	74.9
Unemployed .....	2,873	2,818	2,755	2,726	2,664	2,612	2,636	2,528	2,468	2,410	2,511	2,412	2,322
Unemployment rate .....	5.3	5.2	5.1	5.0	4.9	4.8	4.9	4.7	4.6	4.4	4.6	4.4	4.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	41,540	41,677	41,780	41,877	41,984	42,182	42,137	42,241	42,332	42,308	42,379	42,464	42,569
Percent of population .....	55.0	55.2	55.3	55.4	55.5	55.7	55.6	55.7	55.8	55.7	55.7	55.8	55.9
Employed .....	39,510	39,613	39,755	39,890	40,032	40,268	40,265	40,343	40,449	40,409	40,538	40,606	40,712
Employment-population ratio <sup>2</sup> .....	52.4	52.4	52.6	52.7	52.9	53.1	53.1	53.2	53.3	53.2	53.3	53.4	53.5
Unemployed .....	2,030	2,064	2,025	1,987	1,952	1,914	1,872	1,898	1,883	1,899	1,841	1,858	1,857
Unemployment rate .....	4.9	5.0	4.8	4.7	4.6	4.5	4.4	4.5	4.4	4.5	4.3	4.4	4.4
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,777	6,878	6,924	6,862	6,864	6,996	6,786	6,809	7,001	6,836	6,915	6,886	6,970
Percent of population .....	57.0	57.8	58.1	57.5	57.5	58.5	56.7	56.9	58.5	57.2	57.9	57.7	58.6
Employed .....	5,750	5,840	5,880	5,813	5,846	5,935	5,842	5,904	6,017	5,857	5,915	5,917	6,021
Employment-population ratio <sup>2</sup> .....	48.4	49.1	49.4	48.7	48.9	49.7	48.8	49.3	50.3	49.0	49.5	49.6	50.6
Unemployed .....	1,027	1,038	1,044	1,049	1,018	1,061	944	905	984	979	1,000	969	949
Unemployment rate .....	15.2	15.1	15.1	15.3	14.8	15.2	13.9	13.3	14.1	14.3	14.5	14.1	13.6
Men .....	15.8	16.1	16.0	16.8	16.3	17.0	14.8	13.5	15.2	15.1	15.1	14.8	14.9
Women .....	14.5	14.0	14.1	13.7	13.3	13.3	13.0	13.1	12.9	13.4	13.8	13.3	12.3
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	20,152	20,187	20,218	20,249	20,279	20,312	20,341	20,373	20,396	20,426	20,453	20,482	20,508
Civilian labor force .....	12,706	12,807	12,894	12,853	12,778	12,889	12,892	13,039	13,150	13,028	13,152	13,193	13,215
Percent of population .....	63.1	63.4	63.8	63.5	63.0	63.5	63.4	64.0	64.5	63.8	64.3	64.4	64.4
Employed .....	10,968	10,995	11,086	11,072	11,114	11,129	11,238	11,381	11,513	11,421	11,556	11,589	11,605
Employment-population ratio <sup>2</sup> .....	54.4	54.5	54.8	54.7	54.8	54.8	55.2	55.9	56.4	55.9	56.5	56.6	56.6
Unemployed .....	1,738	1,812	1,808	1,781	1,664	1,760	1,654	1,658	1,637	1,607	1,596	1,604	1,610
Unemployment rate .....	13.7	14.1	14.0	13.9	13.0	13.7	12.8	12.7	12.4	12.3	12.1	12.2	12.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,952	5,988	5,996	5,995	5,980	6,037	6,003	6,061	6,054	6,032	6,023	6,045	6,043
Percent of population .....	74.6	74.9	74.9	74.8	74.4	75.0	74.5	75.1	74.9	74.5	74.3	74.5	74.3
Employed .....	5,250	5,261	5,283	5,298	5,322	5,296	5,319	5,384	5,407	5,421	5,431	5,430	5,430
Employment-population ratio <sup>2</sup> .....	65.8	65.8	66.0	66.1	66.3	65.8	66.0	66.7	66.9	67.0	67.0	66.9	66.8
Unemployed .....	702	727	713	697	658	741	684	677	647	611	592	615	613
Unemployment rate .....	11.8	12.1	11.9	11.6	11.0	12.3	11.4	11.2	10.7	10.1	9.8	10.2	10.1
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,905	5,969	6,005	5,994	5,943	5,987	6,033	6,116	6,122	6,067	6,177	6,207	6,224
Percent of population .....	58.9	59.4	59.7	59.5	58.9	59.3	59.6	60.4	60.3	59.7	60.7	60.9	61.0
Employed .....	5,180	5,217	5,249	5,230	5,254	5,292	5,349	5,417	5,430	5,357	5,495	5,537	5,544
Employment-population ratio <sup>2</sup> .....	51.6	51.9	52.2	51.9	52.1	52.4	52.9	53.5	53.5	52.7	54.0	54.3	54.3
Unemployed .....	725	752	756	764	689	695	684	699	692	710	682	670	680
Unemployment rate .....	12.3	12.6	12.6	12.7	11.6	11.6	11.3	11.4	11.3	11.7	11.0	10.8	10.9

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	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	849	850	893	864	855	865	856	862	974	929	952	941	948
Percent of population .....	39.6	39.6	41.6	40.1	39.6	40.0	39.5	39.8	44.9	42.8	43.8	43.3	43.7
Employed .....	538	517	554	544	538	541	570	580	676	643	630	622	631
Employment-population ratio <sup>2</sup> .....	25.1	24.1	25.8	25.2	24.9	25.0	26.3	26.8	31.2	29.6	29.0	28.6	29.1
Unemployed .....	311	333	339	320	317	324	286	282	298	286	322	319	317
Unemployment rate .....	36.6	39.2	38.0	37.0	37.1	37.5	33.4	32.7	30.6	30.8	33.8	33.9	33.4
Men .....	36.2	36.5	37.9	36.1	37.8	38.3	31.4	32.4	33.7	31.5	32.5	32.2	33.5
Women .....	37.1	42.3	38.0	38.0	36.3	36.6	35.4	33.1	27.1	30.0	35.2	35.8	33.4
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	12,540	12,653	12,692	12,732	12,770	12,809	12,848	12,887	12,925	12,965	13,003	13,043	13,082
Civilian labor force .....	8,328	8,387	8,423	8,395	8,468	8,549	8,468	8,447	8,549	8,581	8,654	8,763	8,772
Percent of population .....	66.4	66.3	66.4	65.9	66.3	66.7	65.9	65.5	66.1	66.2	66.6	67.2	67.1
Employed .....	7,460	7,533	7,614	7,632	7,686	7,797	7,738	7,762	7,856	7,877	7,935	7,978	8,058
Employment-population ratio <sup>2</sup> .....	59.5	59.5	60.0	59.9	60.2	60.9	60.2	60.2	60.8	60.8	61.0	61.2	61.6
Unemployed .....	868	854	809	763	782	752	730	685	693	704	719	785	714
Unemployment rate .....	10.4	10.2	9.6	9.1	9.2	8.8	8.6	8.1	8.1	8.2	8.3	9.0	8.1

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

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

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

and Hispanics are included in both the white and black population groups. Seasonally adjusted data have been revised based on the experience through December 1987. See the article in this issue for additional information.

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

(In thousands)

Category	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>CHARACTERISTIC</b>													
Total .....	110,657	111,014	111,344	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744
Married men, spouse present .....	40,082	40,047	39,958	40,054	40,021	40,075	40,120	40,262	40,308	40,404	40,556	40,645	40,711
Married women, spouse present .....	27,517	27,713	27,837	27,966	28,130	28,314	28,282	28,283	28,189	28,069	28,099	28,175	28,249
Women who maintain families .....	5,958	5,958	5,925	5,946	5,971	5,963	6,011	6,033	6,107	6,151	6,178	6,237	6,227
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,626	1,635	1,640	1,689	1,599	1,672	1,622	1,625	1,591	1,624	1,705	1,595	1,599
Self-employed workers .....	1,387	1,392	1,440	1,416	1,488	1,429	1,403	1,424	1,393	1,415	1,430	1,407	1,450
Unpaid family workers .....	149	143	132	152	170	165	162	153	155	139	140	155	156
Nonagricultural industries:													
Wage and salary workers .....	99,197	99,557	99,772	99,863	100,106	100,634	100,510	100,825	101,241	101,282	101,522	101,943	101,997
Government .....	16,458	16,492	16,553	16,594	16,518	16,708	16,920	16,876	16,794	16,928	17,033	17,118	17,064
Private industries .....	82,739	83,065	83,219	83,269	83,588	83,926	83,590	83,949	84,447	84,354	84,489	84,825	84,933
Private households .....	1,225	1,245	1,213	1,227	1,234	1,240	1,163	1,212	1,175	1,100	1,222	1,286	1,200
Other industries .....	81,514	81,820	82,006	82,042	82,354	82,686	82,427	82,737	83,272	83,254	83,267	83,539	83,733
Self-employed workers .....	8,057	8,136	8,166	8,082	8,139	8,157	8,293	8,216	8,214	8,204	8,274	8,222	8,280
Unpaid family workers .....	241	245	254	270	268	276	274	266	248	297	242	235	248
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,592	5,508	5,766	5,459	5,394	5,333	5,254	5,428	5,283	5,261	5,353	5,534	5,262
Slack work .....	2,459	2,467	2,501	2,438	2,345	2,292	2,345	2,429	2,468	2,213	2,377	2,408	2,284
Could only find part-time work .....	2,895	2,721	2,773	2,707	2,725	2,677	2,623	2,683	2,526	2,683	2,655	2,696	2,638
Voluntary part time .....	13,860	14,147	14,110	14,201	13,940	14,498	14,836	14,437	14,573	14,415	14,488	14,523	14,711
Nonagricultural industries:													
Part time for economic reasons .....	5,324	5,211	5,458	5,180	5,104	5,058	4,979	5,154	5,016	4,986	5,067	5,241	5,004
Slack work .....	2,291	2,279	2,315	2,234	2,163	2,126	2,176	2,261	2,265	2,034	2,196	2,209	2,111
Could only find part-time work .....	2,791	2,631	2,682	2,612	2,648	2,603	2,530	2,599	2,463	2,603	2,557	2,597	2,552
Voluntary part time .....	13,459	13,706	13,635	13,717	13,544	13,995	14,334	13,953	14,099	13,987	14,011	14,064	14,222

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

NOTE: Data have been revised based on the experience through December 1987. See the article in this issue for additional information.







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

(Numbers in thousands)

Weeks of unemployment	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>DURATION</b>													
Less than 5 weeks .....	3,335	3,365	3,343	3,352	3,195	3,308	3,138	3,186	3,203	3,220	3,223	3,218	3,229
5 to 14 weeks .....	2,403	2,489	2,444	2,411	2,256	2,165	2,151	2,144	2,142	1,949	2,093	2,029	1,968
15 weeks and over .....	2,194	2,187	2,129	2,055	2,060	2,067	2,029	1,920	1,896	1,904	1,801	1,834	1,791
15 to 26 weeks .....	1,042	1,023	1,004	944	984	974	973	945	834	917	844	899	892
27 weeks and over .....	1,152	1,164	1,125	1,111	1,076	1,093	1,056	975	1,062	987	957	935	899
Average (mean) duration, in weeks .....	15.0	15.0	14.8	14.9	14.8	14.8	14.7	14.2	14.3	14.2	14.1	14.0	14.2
Median duration, in weeks .....	7.1	7.0	6.7	6.7	6.9	6.6	6.6	6.6	6.4	5.8	6.2	6.1	6.0
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	42.0	41.8	42.2	42.9	42.5	43.9	42.9	43.9	44.2	45.5	45.3	45.4	46.2
5 to 14 weeks .....	30.3	31.0	30.9	30.8	30.0	28.7	29.4	29.6	29.6	27.6	29.4	28.7	28.2
15 weeks and over .....	27.7	27.2	26.9	26.3	27.4	27.4	27.7	26.5	26.2	26.9	25.3	25.9	25.6
15 to 26 weeks .....	13.1	12.7	12.7	12.1	13.1	12.9	13.3	13.0	11.5	13.0	11.9	12.7	12.8
27 weeks and over .....	14.5	14.5	14.2	14.2	14.3	14.5	14.4	13.4	14.7	14.0	13.4	13.2	12.9

NOTE: Data have been revised based on the experience through December 1987. 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	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,913	3,971	3,835	3,791	3,705	3,612	3,554	3,529	3,389	3,313	3,388	3,307	3,200
On layoff .....	1,064	1,087	1,001	1,003	963	924	919	916	874	820	944	878	856
Other job losers .....	2,849	2,884	2,834	2,788	2,742	2,688	2,635	2,613	2,515	2,493	2,444	2,429	2,344
Job leavers .....	1,024	909	1,033	996	955	931	959	989	992	981	960	926	946
Reentrants .....	2,005	2,059	2,038	2,078	1,965	1,995	1,980	1,930	1,969	1,908	1,845	1,974	1,945
New entrants .....	990	1,048	1,007	952	918	999	854	844	855	882	914	855	909
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	49.3	49.7	48.5	48.5	49.1	47.9	48.4	48.4	47.0	46.8	47.7	46.8	45.7
On layoff .....	13.4	13.6	12.7	12.8	12.8	12.3	12.5	12.6	12.1	11.6	13.3	12.4	12.2
Other job losers .....	35.9	36.1	35.8	35.7	36.4	35.7	35.9	35.8	34.9	35.2	34.4	34.4	33.5
Job leavers .....	12.9	11.4	13.1	12.7	12.7	12.4	13.1	13.6	13.8	13.8	13.5	13.1	13.5
Reentrants .....	25.3	25.8	25.8	26.6	26.1	26.5	26.9	26.5	27.3	26.9	26.0	28.0	27.8
New entrants .....	12.5	13.1	12.7	12.2	12.2	13.3	11.6	11.6	11.9	12.5	12.9	12.1	13.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.3	3.3	3.2	3.2	3.1	3.0	3.0	2.9	2.8	2.8	2.8	2.7	2.7
Job leavers .....	.9	.8	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants .....	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.6	1.6
New entrants .....	.8	.9	.8	.8	.8	.8	.7	.7	.7	.7	.8	.7	.8

NOTE: Data have been revised based on the experience through December 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	178,834	179,222	179,649	180,135	180,641	181,517	182,008	182,530	183,115	183,743	184,253	184,749	185,216
Labor force <sup>1</sup> .....	115,957	116,692	116,893	117,214	117,887	118,653	119,330	119,898	120,307	120,893	121,352	121,786	122,316
Percent of population <sup>2</sup> .....	64.8	65.1	65.1	65.1	65.3	65.4	65.6	65.7	65.7	65.8	65.9	65.9	66.0
Total employed <sup>1</sup> .....	107,644	108,320	108,522	108,910	109,684	110,452	110,910	111,668	112,186	113,012	113,873	114,587	115,235
Employment-population ratio <sup>3</sup> .....	60.2	60.4	60.4	60.5	60.7	60.8	60.9	61.2	61.3	61.5	61.8	62.0	62.2
Resident Armed Forces .....	1,701	1,700	1,703	1,721	1,700	1,892	1,687	1,695	1,750	1,741	1,726	1,733	1,749
Civilian employed .....	105,944	106,620	106,819	107,190	107,984	108,760	108,223	109,973	110,438	111,271	112,147	112,854	113,486
Agriculture .....	3,327	3,305	3,235	3,111	3,093	3,206	3,148	3,132	3,178	3,212	3,237	3,180	3,212
Nonagricultural industries .....	102,616	103,314	103,584	104,078	104,891	105,555	106,075	106,841	107,260	108,059	108,910	109,674	110,274
Unemployed .....	8,313	8,372	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082
Unemployment rate <sup>4</sup> .....	7.2	7.2	7.2	7.1	7.0	6.9	7.1	6.9	6.8	6.5	6.2	5.9	5.8
Not in labor force .....	62,876	62,531	62,756	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	85,523	85,695	85,899	86,133	86,376	86,957	87,201	87,463	87,775	88,101	88,358	88,605	88,843
Labor force <sup>1</sup> .....	65,705	65,729	65,905	66,036	66,217	66,670	66,873	67,055	67,319	67,616	67,676	67,795	67,999
Percent of population <sup>2</sup> .....	76.8	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.6	76.5	76.5
Total employed <sup>1</sup> .....	61,138	61,177	61,368	61,526	61,735	62,222	62,271	62,492	62,790	63,232	63,492	63,859	64,156
Employment-population ratio <sup>3</sup> .....	71.5	71.4	71.4	71.4	71.5	71.6	71.4	71.4	71.5	71.8	71.9	72.1	72.2
Resident Armed Forces .....	1,553	1,552	1,554	1,569	1,551	1,539	1,533	1,540	1,592	1,583	1,567	1,572	1,587
Civilian employed .....	59,585	59,625	59,814	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568
Unemployed .....	4,567	4,552	4,537	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843
Unemployment rate <sup>4</sup> .....	7.0	6.9	6.9	6.8	6.8	6.7	6.9	6.8	6.7	6.5	6.2	5.8	5.7
Not in labor force .....	19,818	19,966	19,994	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	93,311	93,527	93,751	94,000	94,265	94,560	94,807	95,067	95,341	95,642	95,896	96,144	96,372
Labor force <sup>1</sup> .....	50,252	50,962	50,988	51,178	51,669	51,983	52,456	52,644	52,988	53,277	53,676	53,991	54,316
Percent of population <sup>2</sup> .....	53.9	54.5	54.4	54.4	54.8	55.0	55.3	55.6	55.6	55.7	56.0	56.2	56.4
Total employed <sup>1</sup> .....	46,506	47,143	47,154	47,384	47,948	48,230	48,640	49,176	49,396	49,780	50,381	50,728	51,079
Employment-population ratio <sup>3</sup> .....	49.8	50.4	50.3	50.4	50.9	51.0	51.3	51.7	51.8	52.0	52.5	52.8	53.0
Resident Armed Forces .....	148	148	149	151	149	152	154	155	158	158	160	161	161
Civilian employed .....	46,358	46,995	47,004	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918
Unemployed .....	3,746	3,819	3,835	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239
Unemployment rate <sup>4</sup> .....	7.5	7.5	7.5	7.4	7.2	7.2	7.3	6.9	6.8	6.6	6.1	6.0	6.0
Not in labor force .....	43,058	42,565	42,763	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055

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

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

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

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

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-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 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	177,133	177,522	177,946	178,414	178,941	179,825	180,321	180,835	181,365	182,002	182,527	183,016	183,467
Civilian labor force .....	114,257	114,991	115,190	115,494	116,187	116,962	117,642	118,203	118,557	119,151	119,626	120,053	120,568
Percent of population .....	64.5	64.8	64.7	64.7	64.9	65.0	65.2	65.4	65.4	65.5	65.5	65.6	65.7
Employed .....	105,944	106,620	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486
Employment-population ratio <sup>2</sup> .....	59.8	60.1	60.0	60.1	60.3	60.5	60.6	60.8	60.9	61.1	61.4	61.7	61.9
Unemployed .....	8,313	8,372	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082
Unemployment rate .....	7.3	7.3	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	76,660	76,831	77,064	77,313	77,571	78,169	78,399	78,647	78,883	79,217	79,466	79,678	79,898
Civilian labor force .....	60,015	59,997	60,190	60,347	60,586	61,109	61,183	61,369	61,657	61,925	62,051	62,091	62,253
Percent of population .....	78.3	78.1	78.1	78.1	78.1	78.2	78.0	78.0	78.2	78.2	78.1	77.9	77.9
Employed .....	56,252	56,244	56,428	56,658	56,936	57,420	57,399	57,599	57,873	58,308	58,607	58,858	59,129
Employment-population ratio <sup>2</sup> .....	73.4	73.2	73.2	73.3	73.4	73.5	73.2	73.2	73.4	73.6	73.8	73.9	74.0
Agriculture .....	2,438	2,366	2,300	2,230	2,236	2,332	2,282	2,259	2,308	2,322	2,359	2,322	2,313
Nonagricultural industries .....	53,814	53,878	54,128	54,428	54,700	55,088	55,117	55,340	55,566	55,986	56,248	56,536	56,816
Unemployed .....	3,763	3,753	3,762	3,689	3,650	3,688	3,784	3,771	3,784	3,617	3,444	3,233	3,124
Unemployment rate .....	6.3	6.3	6.2	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0
Not in labor force .....	16,645	16,834	16,874	16,966	16,985	17,060	17,210	17,278	17,226	17,292	17,415	17,587	17,645
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	85,895	86,094	86,377	86,651	86,900	87,187	87,449	87,699	87,935	88,236	88,468	88,701	88,925
Civilian labor force .....	46,354	46,959	47,137	47,290	47,736	48,000	48,448	48,893	49,005	49,308	49,648	49,926	50,237
Percent of population .....	54.0	54.5	54.6	54.6	54.9	55.1	55.4	55.8	55.7	55.9	56.1	56.3	56.5
Employed .....	43,254	43,821	43,956	44,139	44,686	44,931	45,331	45,886	46,070	46,452	46,959	47,255	47,621
Employment-population ratio <sup>2</sup> .....	50.4	50.9	50.9	50.9	51.4	51.5	51.8	52.3	52.4	52.6	53.1	53.3	53.6
Agriculture .....	573	603	611	582	590	620	595	620	622	620	617	610	638
Nonagricultural industries .....	42,681	43,218	43,345	43,557	44,096	44,311	44,736	45,266	45,448	45,832	46,342	46,645	46,983
Unemployed .....	3,100	3,138	3,181	3,152	3,050	3,070	3,117	3,007	2,935	2,856	2,689	2,671	2,615
Unemployment rate .....	6.7	6.7	6.7	6.7	6.4	6.4	6.4	6.2	6.0	5.8	5.4	5.3	5.2
Not in labor force .....	39,541	39,135	39,240	39,361	39,164	39,187	39,001	38,806	38,930	38,928	38,820	38,775	38,688
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,577	14,597	14,506	14,450	14,470	14,469	14,479	14,489	14,547	14,548	14,593	14,638	14,644
Civilian labor force .....	7,867	8,035	7,863	7,856	7,865	7,853	8,012	7,941	7,895	7,919	7,927	8,036	8,078
Percent of population .....	54.1	55.0	54.2	54.4	54.4	54.3	55.3	54.8	54.3	54.4	54.3	54.9	55.2
Employed .....	6,438	6,554	6,435	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736
Employment-population ratio <sup>2</sup> .....	44.2	44.9	44.4	44.2	44.0	44.3	44.8	44.8	44.6	44.8	45.1	46.0	46.0
Agriculture .....	316	336	324	299	267	254	271	253	246	270	261	248	261
Nonagricultural industries .....	6,122	6,218	6,111	6,094	6,095	6,156	6,222	6,235	6,246	6,241	6,320	6,493	6,475
Unemployed .....	1,449	1,481	1,428	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342
Unemployment rate .....	18.4	18.4	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6
Not in labor force .....	6,690	6,562	6,643	6,594	6,605	6,616	6,467	6,548	6,652	6,629	6,666	6,602	6,566

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

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

NOTE: Seasonally adjusted data have been revised based on the experience through December 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	152,666	153,196	153,491	153,825	154,204	154,893	155,245	155,609	155,982	156,435	156,806	157,145	157,448
Civilian labor force .....	98,814	99,574	99,688	99,911	100,538	101,100	101,580	102,125	102,425	102,777	103,179	103,374	103,769
Percent of population .....	64.7	65.0	64.9	65.0	65.2	65.3	65.4	65.6	65.7	65.7	65.8	65.8	65.9
Employed .....	92,618	93,354	93,399	93,701	94,491	94,977	95,314	96,005	96,350	96,941	97,622	98,056	98,529
Employment-population ratio <sup>2</sup> .....	60.7	60.9	60.8	60.9	61.3	61.3	61.4	61.7	61.8	62.0	62.3	62.4	62.6
Unemployed .....	6,196	6,220	6,289	6,210	6,047	6,123	6,266	6,120	6,075	5,835	5,558	5,318	5,240
Unemployment rate .....	6.3	6.2	6.3	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0
<b>Men, 20 years and over</b>													
Civilian labor force .....	52,602	52,657	52,844	52,952	53,136	53,509	53,554	53,699	53,970	54,111	54,196	54,198	54,375
Percent of population .....	78.7	78.4	78.5	78.5	78.5	78.5	78.4	78.4	78.6	78.5	78.4	78.3	78.3
Employed .....	49,725	49,817	49,947	50,099	50,390	50,705	50,660	50,843	51,074	51,344	51,559	51,729	51,960
Employment-population ratio <sup>2</sup> .....	74.4	74.2	74.2	74.3	74.5	74.4	74.2	74.2	74.4	74.5	74.6	74.7	74.8
Unemployed .....	2,877	2,840	2,898	2,853	2,746	2,805	2,894	2,856	2,896	2,766	2,637	2,469	2,415
Unemployment rate .....	5.5	5.4	5.5	5.4	5.2	5.2	5.4	5.3	5.4	5.1	4.9	4.6	4.4
<b>Women, 20 years and over</b>													
Civilian labor force .....	39,345	39,946	40,035	40,186	40,580	40,783	41,128	41,560	41,574	41,778	42,101	42,294	42,471
Percent of population .....	53.3	53.9	53.9	53.9	54.3	54.5	54.8	55.2	55.1	55.3	55.6	55.7	55.8
Employed .....	37,093	37,646	37,704	37,889	38,375	38,505	38,863	39,367	39,458	39,753	40,188	40,400	40,619
Employment-population ratio <sup>2</sup> .....	50.2	50.8	50.7	50.9	51.4	51.4	51.8	52.3	52.3	52.6	53.0	53.2	53.4
Unemployed .....	2,252	2,300	2,331	2,297	2,206	2,278	2,265	2,193	2,115	2,025	1,913	1,893	1,852
Unemployment rate .....	5.7	5.8	5.8	5.7	5.4	5.6	5.5	5.3	5.1	4.8	4.5	4.5	4.4
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,867	6,970	6,809	6,773	6,822	6,808	6,899	6,865	6,881	6,888	6,882	6,882	6,924
Percent of population .....	57.1	58.2	57.2	57.1	57.5	57.4	58.1	57.8	57.8	57.8	57.6	57.5	58.1
Employed .....	5,800	5,891	5,749	5,713	5,727	5,767	5,791	5,795	5,817	5,844	5,874	5,926	5,951
Employment-population ratio <sup>2</sup> .....	48.2	49.2	48.3	48.2	48.3	48.6	48.8	48.8	48.9	49.0	49.1	49.6	49.9
Unemployed .....	1,067	1,080	1,060	1,060	1,095	1,040	1,107	1,071	1,064	1,044	1,008	956	973
Unemployment rate .....	15.5	15.5	15.6	15.6	16.1	15.3	16.1	15.6	15.5	15.2	14.6	13.9	14.0
Men .....	16.5	16.3	16.0	16.8	17.1	15.7	17.0	16.4	16.0	16.3	16.0	14.6	14.9
Women .....	14.5	14.6	15.0	14.4	14.9	14.8	15.1	14.8	14.9	13.9	13.2	13.1	13.1
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,481	19,543	19,620	19,701	19,790	19,863	19,945	20,028	20,120	20,218	20,310	20,398	20,481
Civilian labor force .....	12,254	12,295	12,328	12,363	12,477	12,569	12,734	12,597	12,719	12,851	12,853	13,072	13,187
Percent of population .....	62.9	62.9	62.8	62.8	63.0	63.3	63.8	62.9	63.2	63.6	63.3	64.1	64.4
Employed .....	10,400	10,401	10,487	10,529	10,588	10,733	10,846	10,759	10,918	11,051	11,160	11,438	11,583
Employment-population ratio <sup>2</sup> .....	53.4	53.2	53.4	53.4	53.5	54.0	54.4	53.7	54.3	54.7	54.9	56.1	56.6
Unemployed .....	1,854	1,894	1,842	1,834	1,889	1,836	1,888	1,838	1,800	1,800	1,693	1,634	1,603
Unemployment rate .....	15.1	15.4	14.9	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,743	5,716	5,718	5,760	5,802	5,883	5,928	5,901	5,949	5,993	6,007	6,049	6,037
Percent of population .....	74.8	74.5	74.2	74.3	74.5	75.0	75.2	74.5	74.7	74.8	74.7	74.8	74.4
Employed .....	4,995	4,942	4,970	5,032	5,025	5,122	5,162	5,122	5,195	5,281	5,312	5,404	5,430
Employment-population ratio <sup>2</sup> .....	65.1	64.4	64.5	64.9	64.5	65.3	65.4	64.6	65.2	65.9	66.0	66.9	66.9
Unemployed .....	748	774	748	728	778	761	766	779	754	712	694	645	607
Unemployment rate .....	13.0	13.5	13.1	12.6	13.4	12.9	12.9	13.2	12.7	11.9	11.6	10.7	10.0
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,654	5,688	5,731	5,712	5,778	5,779	5,875	5,849	5,917	5,989	5,988	6,102	6,203
Percent of population .....	58.5	58.6	58.8	58.3	58.7	58.5	59.2	58.7	59.1	59.5	59.3	60.1	60.9
Employed .....	4,904	4,935	4,979	4,957	5,038	5,074	5,126	5,130	5,179	5,232	5,298	5,401	5,525
Employment-population ratio <sup>2</sup> .....	50.7	50.9	51.1	50.6	51.2	51.4	51.7	51.5	51.7	52.0	52.4	53.2	54.2
Unemployed .....	750	753	752	755	740	705	749	719	738	757	689	700	677
Unemployment rate .....	13.3	13.2	13.1	13.2	12.8	12.2	12.7	12.3	12.5	12.6	11.5	11.5	10.9

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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	857	891	879	891	896	908	931	846	853	869	859	922	947
Percent of population .....	40.1	41.0	40.7	41.4	41.7	42.5	43.6	39.6	39.8	40.4	39.7	42.5	43.6
Employed .....	501	524	538	540	525	537	557	507	544	538	550	633	628
Employment-population ratio <sup>2</sup> .....	23.4	24.1	24.9	25.1	24.4	25.1	26.1	23.7	25.4	25.1	25.4	29.2	28.9
Unemployed .....	356	367	341	352	372	371	373	339	308	331	309	289	319
Unemployment rate .....	41.6	41.2	38.8	39.5	41.5	40.8	40.1	40.1	36.2	38.1	36.0	31.3	33.7
Men .....	43.1	41.7	39.4	40.4	42.7	40.9	39.6	40.2	36.7	36.9	35.9	32.6	32.7
Women .....	39.9	40.7	38.2	38.3	40.1	40.7	40.7	40.0	35.6	39.3	36.1	30.0	34.8
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	11,643	11,753	11,862	11,969	12,075	12,184	12,290	12,397	12,504	12,692	12,809	12,926	13,043
Civilian labor force .....	7,618	7,559	7,617	7,806	7,809	7,862	8,010	8,171	8,256	8,402	8,495	8,526	8,730
Percent of population .....	65.4	64.3	64.2	65.2	64.7	64.5	65.2	65.9	66.0	66.2	66.3	66.0	66.9
Employed .....	6,823	6,789	6,808	6,976	6,973	7,015	7,150	7,280	7,425	7,593	7,740	7,832	7,990
Employment-population ratio <sup>2</sup> .....	58.6	57.8	57.4	58.3	57.7	57.6	58.2	58.7	59.4	59.8	60.4	60.6	61.3
Unemployed .....	795	771	809	830	836	847	860	891	831	809	755	694	739
Unemployment rate .....	10.4	10.2	10.6	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5

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

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

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

and Hispanics are included in both the white and black population groups. Seasonally adjusted data have been revised based on the experience through December 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>EMPLOYED</b>													
Full-time workers .....	87,458	88,057	88,462	88,406	89,252	89,807	90,133	90,870	91,279	92,039	92,561	93,298	93,903
Men, 16 years and over .....	53,531	53,569	53,860	53,868	54,163	54,528	54,521	54,758	54,945	55,356	55,552	55,927	56,159
Men, 20 years and over .....	52,093	52,128	52,334	52,478	52,765	53,177	53,100	53,392	53,608	54,026	54,239	54,507	54,752
Women, 16 years and over .....	33,938	34,440	34,601	34,539	35,102	35,253	35,628	36,119	36,367	36,625	37,035	37,432	37,742
Women, 20 years and over .....	32,843	33,354	33,544	33,469	34,038	34,236	34,552	35,090	35,351	35,587	35,989	36,288	36,605
Both sexes, 16 to 19 years .....	2,523	2,575	2,584	2,460	2,449	2,395	2,481	2,388	2,320	2,427	2,333	2,503	2,546
Part-time workers .....	18,499	18,614	18,339	18,729	18,782	18,994	19,048	19,021	19,208	19,280	19,536	19,439	19,678
Men, 16 years and over .....	6,067	6,027	5,951	6,078	6,054	6,151	6,205	6,176	6,295	6,275	6,360	6,350	6,454
Men, 20 years and over .....	4,176	4,113	4,081	4,159	4,198	4,245	4,278	4,183	4,297	4,286	4,347	4,337	4,410
Women, 16 years and over .....	12,450	12,570	12,370	12,672	12,741	12,824	12,832	12,871	12,925	12,981	13,173	13,109	13,237
Women, 20 years and over .....	10,430	10,491	10,392	10,644	10,673	10,710	10,767	10,754	10,749	10,882	10,971	10,912	11,050
Both sexes, 16 to 19 years .....	3,894	4,010	3,865	3,925	3,911	4,039	4,003	4,084	4,163	4,111	4,219	4,190	4,218
<b>UNEMPLOYED</b>													
Looking for full-time work .....	6,895	6,862	6,792	6,802	6,714	6,711	6,844	6,679	6,619	6,373	6,045	5,767	5,670
Men, 16 years and over .....	3,999	3,939	3,936	3,933	3,885	3,861	3,987	3,913	3,899	3,769	3,609	3,399	3,302
Men, 20 years and over .....	3,519	3,521	3,502	3,459	3,426	3,472	3,527	3,514	3,533	3,373	3,215	3,015	2,930
Women, 16 years and over .....	2,900	2,892	2,882	2,880	2,824	2,831	2,875	2,764	2,701	2,590	2,455	2,393	2,393
Women, 20 years and over .....	2,551	2,549	2,561	2,555	2,486	2,495	2,541	2,440	2,400	2,297	2,179	2,133	2,100
Both sexes, 16 to 19 years .....	825	792	728	788	802	744	776	725	686	703	652	619	639
Looking for part-time work .....	1,428	1,511	1,563	1,507	1,497	1,497	1,555	1,557	1,513	1,519	1,419	1,424	1,417
Men, 16 years and over .....	574	586	623	579	597	573	629	637	617	613	590	563	554
Men, 20 years and over .....	245	234	254	232	226	221	249	252	254	252	222	214	197
Women, 16 years and over .....	854	932	939	918	906	926	925	902	907	910	833	851	871
Women, 20 years and over .....	562	588	609	595	577	574	562	574	551	558	499	531	528
Both sexes, 16 to 19 years .....	621	690	700	680	694	702	745	732	708	709	698	679	692

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 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>CHARACTERISTIC</b>													
Total .....	105,944	106,620	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486
Married men, spouse present .....	39,254	39,381	39,190	39,149	39,278	39,424	39,605	39,704	39,899	40,020	40,072	40,325	40,637
Married women, spouse present .....	25,962	26,141	26,053	26,350	26,784	26,818	26,973	27,336	27,450	27,839	28,242	28,180	28,174
Women who maintain families .....	5,399	5,559	5,662	5,605	5,560	5,726	5,780	5,862	5,977	5,943	5,982	6,097	6,214
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,607	1,572	1,576	1,492	1,520	1,587	1,508	1,524	1,594	1,655	1,631	1,613	1,633
Self-employed workers .....	1,515	1,507	1,471	1,448	1,411	1,460	1,475	1,433	1,420	1,416	1,440	1,411	1,429
Unpaid family workers .....	208	230	187	175	165	169	167	168	170	142	166	149	150
Nonagricultural industries:													
Wage and salary workers .....	94,589	95,289	95,493	95,964	96,747	97,686	98,042	98,523	98,964	99,731	100,417	101,116	101,821
Government .....	15,852	15,945	15,972	16,026	16,169	16,249	16,312	16,434	16,371	16,546	16,715	16,866	17,072
Private industries .....	78,738	79,344	79,521	79,937	80,579	81,417	81,730	82,088	82,594	83,184	83,701	84,250	84,749
Private households .....	1,251	1,292	1,215	1,271	1,220	1,221	1,269	1,245	1,206	1,228	1,212	1,162	1,236
Other industries .....	77,487	78,051	78,306	78,666	79,358	80,196	80,461	80,844	81,387	81,956	82,489	83,088	83,513
Self-employed workers .....	7,706	7,767	7,752	7,791	7,921	7,691	7,754	7,985	8,076	8,128	8,196	8,211	8,259
Unpaid family workers .....	344	327	297	277	255	257	241	265	256	256	273	270	242
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,705	5,575	5,682	5,628	5,469	5,509	5,783	5,479	5,601	5,578	5,327	5,324	5,383
Slack work .....	2,542	2,432	2,566	2,436	2,294	2,356	2,565	2,440	2,469	2,469	2,327	2,370	2,356
Could only find part-time work .....	2,841	2,790	2,780	2,830	2,877	2,830	2,872	2,722	2,796	2,734	2,675	2,631	2,663
Voluntary part time .....	13,208	13,464	13,250	13,568	13,678	13,833	13,909	13,952	14,058	14,153	14,425	14,475	14,574
Nonagricultural industries:													
Part time for economic reasons .....	5,483	5,321	5,392	5,365	5,250	5,272	5,515	5,258	5,344	5,283	5,047	5,052	5,104
Slack work .....	2,396	2,264	2,383	2,280	2,167	2,203	2,426	2,289	2,310	2,276	2,155	2,187	2,172
Could only find part-time work .....	2,764	2,705	2,704	2,732	2,777	2,749	2,776	2,661	2,699	2,642	2,594	2,555	2,569
Voluntary part time .....	12,737	12,989	12,831	13,108	13,224	13,372	13,506	13,536	13,605	13,686	13,958	14,013	14,099

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

NOTE: Data have been revised based on the experience through December 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>DURATION</b>													
Less than 5 weeks .....	3,399	3,543	3,513	3,498	3,437	3,454	3,551	3,431	3,376	3,353	3,214	3,203	3,223
5 to 14 weeks .....	2,429	2,496	2,533	2,529	2,489	2,550	2,695	2,498	2,513	2,448	2,191	2,078	2,030
15 weeks and over .....	2,462	2,365	2,309	2,284	2,250	2,229	2,199	2,303	2,211	2,124	2,052	1,907	1,809
15 to 26 weeks .....	1,049	1,024	1,014	1,045	1,016	1,075	1,001	1,090	1,031	990	977	899	878
27 weeks and over .....	1,413	1,341	1,295	1,239	1,234	1,153	1,199	1,213	1,180	1,133	1,075	1,008	930
Average (mean) duration, in weeks .....	16.8	16.0	15.7	15.4	15.4	15.0	14.8	15.4	15.1	14.9	14.8	14.2	14.1
Median duration, in weeks .....	7.2	7.0	6.8	7.0	6.9	6.9	6.8	7.1	7.0	6.8	6.7	6.3	6.1
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	41.0	42.2	42.0	42.1	42.0	42.0	42.0	41.7	41.7	42.3	43.1	44.6	45.6
5 to 14 weeks .....	29.3	29.7	30.3	30.4	30.4	31.0	31.9	30.3	31.0	30.9	29.4	28.9	28.7
15 weeks and over .....	29.7	28.1	27.6	27.5	27.5	27.1	26.0	28.0	27.3	26.8	27.5	26.5	25.6
15 to 26 weeks .....	12.7	12.2	12.1	12.6	12.4	13.1	11.8	13.2	12.7	12.5	13.1	12.5	12.4
27 weeks and over .....	17.0	16.0	15.5	14.9	15.1	14.0	14.2	14.7	14.6	14.3	14.4	14.0	13.2

NOTE: Data have been revised based on the experience through December 1987. 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	1984	1985				1986				1987			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,232	4,218	4,070	4,215	4,044	4,043	4,160	4,006	3,938	3,866	3,624	3,410	3,298
On layoff .....	1,105	1,171	1,143	1,167	1,145	1,132	1,095	1,058	1,061	1,030	935	870	893
Other job losers .....	3,127	3,047	2,928	3,048	2,899	2,911	3,066	2,948	2,877	2,835	2,688	2,540	2,406
Job leavers .....	858	859	906	870	877	985	1,041	1,005	1,032	979	948	987	944
Reentrants .....	2,194	2,253	2,306	2,234	2,231	2,172	2,167	2,186	2,112	2,058	1,980	1,936	1,921
New entrants .....	1,029	1,042	1,066	1,018	1,035	1,017	1,058	1,042	1,002	1,002	924	860	893
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	50.9	50.4	48.8	50.6	49.4	49.2	49.4	48.6	48.7	48.9	48.5	47.4	46.7
On layoff .....	13.3	14.0	13.7	14.0	14.0	13.8	13.0	12.8	13.1	13.0	12.5	12.1	12.7
Other job losers .....	37.6	36.4	35.1	36.6	35.4	35.4	36.4	35.8	35.6	35.9	36.0	35.3	34.1
Job leavers .....	10.3	10.3	10.8	10.4	10.7	12.0	12.4	12.2	12.8	12.4	12.7	13.7	13.4
Reentrants .....	26.4	26.9	27.6	26.8	27.3	26.4	25.7	26.5	26.1	26.0	26.5	26.9	27.2
New entrants .....	12.4	12.4	12.8	12.2	12.6	12.4	12.6	12.7	12.4	12.7	12.4	12.0	12.7
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.7	3.7	3.5	3.6	3.5	3.5	3.5	3.4	3.3	3.2	3.0	2.8	2.7
Job leavers .....	.8	.7	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.8
Reentrants .....	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6
New entrants .....	.9	.9	.9	.9	.9	.9	.9	.9	.8	.8	.8	.7	.7

NOTE: Data have been revised based on the experience through December 1987. 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 1986	IV 1987	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>										
Total not in labor force .....	62,908	62,947	7,068	6,985	4,134	4,159	20,895	20,685	30,811	31,119
Do not want a job now .....	57,219	57,614	5,968	5,904	3,345	3,463	17,810	17,810	30,096	30,439
Current activity:										
Going to school .....	8,075	8,184	5,385	5,285	1,769	1,909	880	971	40	19
Ill, disabled .....	3,773	4,248	38	37	68	116	1,868	2,128	1,801	1,970
Keeping house .....	25,907	25,391	344	340	1,211	1,141	12,273	12,013	12,078	11,897
Retired .....	15,781	16,224	-	-	-	-	363	404	15,418	15,819
Other activity .....	3,683	3,567	201	242	297	297	2,426	2,294	759	734
Want a job now .....	5,690	5,333	1,102	1,082	789	695	3,084	2,875	713	679
Reason for not looking:										
School attendance .....	1,378	1,343	914	849	196	220	264	262	4	12
Ill health, disability .....	817	901	12	35	51	50	548	616	208	199
Home responsibilities .....	1,277	1,170	49	60	246	211	915	845	66	55
Think cannot get a job .....	1,120	891	84	71	158	92	654	537	223	191
Job-market factors .....	794	566	45	39	112	61	518	376	118	92
Personal factors .....	326	325	39	32	46	31	136	161	105	99
Other reasons <sup>1</sup> .....	1,097	1,028	43	67	138	122	703	615	214	222
<b>Men</b>										
Total not in labor force .....	20,773	21,130	3,486	3,459	1,398	1,532	4,015	4,163	11,873	11,977
Do not want a job now .....	18,807	19,229	2,934	2,889	1,152	1,280	3,186	3,388	11,535	11,676
Current activity:										
Going to school .....	4,109	4,113	2,776	2,717	938	1,028	381	363	14	7
Ill, disabled .....	2,000	2,226	21	14	42	57	1,059	1,274	876	881
Keeping house .....	421	484	16	27	25	27	148	158	231	275
Retired .....	10,209	10,325	-	-	-	-	291	308	9,919	10,017
Other activity .....	2,069	2,081	121	131	147	168	1,307	1,285	495	496
Want a job now .....	1,965	1,902	554	571	245	252	829	776	338	302
Reason for not looking:										
School attendance .....	647	707	474	485	74	117	95	100	4	5
Ill health, disability .....	396	458	4	21	23	43	256	292	114	103
Think cannot get a job .....	483	358	57	45	78	41	259	197	88	76
Other reasons <sup>1</sup> .....	440	378	19	20	70	51	219	187	132	118
<b>Women</b>										
Total not in labor force .....	42,136	41,817	3,582	3,526	2,736	2,628	16,880	16,521	18,938	19,141
Do not want a job now .....	38,411	38,385	3,033	3,017	2,194	2,182	14,625	14,423	18,560	18,763
Current activity:										
Going to school .....	3,966	4,071	2,611	2,569	830	879	498	610	26	13
Ill, disabled .....	1,773	2,023	14	24	27	58	809	853	923	1,088
Keeping house .....	25,486	24,907	328	313	1,187	1,116	12,124	11,854	11,848	11,623
Retired .....	5,572	5,899	-	-	-	-	73	97	5,499	5,801
Other activity .....	1,614	1,486	80	111	150	129	1,121	1,009	264	238
Want a job now .....	3,724	3,432	548	510	542	446	2,257	2,097	377	378
Reason not looking:										
School attendance .....	731	636	439	364	123	105	169	161	-	7
Ill health, disability .....	421	443	8	14	27	7	292	324	94	97
Home responsibilities .....	1,277	1,170	49	60	246	211	915	845	66	55
Think cannot get a job .....	637	533	28	25	79	52	396	340	135	115
Other reasons .....	658	650	24	47	67	71	485	427	82	104

<sup>1</sup> Includes small number of men not looking for work because of "home responsibilities."

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

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

**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 1986	IV 1987	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>WHITE</b>												
Total not in labor force .....	53,668	53,746	8,534	8,624	17,471	17,219	27,663	27,903	17,467	17,782	36,201	35,964
Do not want a job now .....	49,575	49,811	7,299	7,413	15,231	15,063	27,039	27,336	16,041	16,368	33,531	33,443
Current activity:												
Going to school .....	6,280	6,385	5,566	5,677	683	694	26	16	3,221	3,254	3,059	3,131
Ill, disabled .....	3,129	3,309	80	118	1,531	1,634	1,519	1,559	1,676	1,731	1,453	1,578
Keeping house .....	23,079	22,568	1,301	1,230	10,756	10,515	11,024	10,821	330	394	22,749	22,174
Retired .....	14,131	14,638	-	-	348	365	13,783	14,273	9,201	9,342	4,930	5,296
Other activity .....	2,953	2,911	352	388	1,913	1,855	687	667	1,613	1,647	1,340	1,264
Want a job now .....	4,094	3,935	1,235	1,207	2,239	2,154	624	567	1,425	1,415	2,670	2,523
Reason for not looking:												
School attendance .....	937	949	764	742	174	192	1	12	452	521	485	428
Ill health, disability .....	583	701	38	60	376	483	168	157	304	375	280	327
Home responsibilities .....	940	864	189	180	689	633	63	51	-	-	940	864
Think cannot get a job .....	772	598	125	86	452	357	196	152	326	214	445	385
Other reasons <sup>1</sup> .....	862	823	119	139	548	489	196	195	343	305	519	519
<b>BLACK</b>												
Total not in labor force .....	7,449	7,326	2,126	2,022	2,632	2,610	2,691	2,695	2,680	2,708	4,769	4,618
Do not want a job now .....	6,057	6,099	1,539	1,524	1,914	1,984	2,608	2,587	2,227	2,282	3,831	3,817
Current activity:												
Going to school .....	1,283	1,282	1,176	1,129	105	151	2	-	631	587	652	695
Ill, disabled .....	578	857	17	27	303	455	259	374	279	451	299	406
Keeping house .....	2,171	2,086	227	231	1,058	976	890	879	84	68	2,088	2,018
Retired .....	1,393	1,331	-	-	16	32	1,377	1,299	835	816	558	515
Other activity .....	631	543	119	137	432	370	80	35	398	360	234	183
Want a job now .....	1,393	1,227	588	499	721	626	84	107	454	426	939	800
Reason for not looking:												
School attendance .....	380	348	308	293	73	57	-	-	157	166	223	182
Ill health, disability .....	209	183	22	25	149	122	37	38	82	79	127	104
Home responsibilities .....	281	278	93	85	184	188	3	5	-	-	281	278
Think cannot get a job .....	302	246	104	55	172	155	26	36	127	119	175	127
Other reasons <sup>1</sup> .....	221	172	61	41	143	104	18	28	88	62	133	109
<b>HISPANIC ORIGIN</b>												
Total not in labor force .....	4,261	4,320	1,242	1,213	1,965	2,057	1,054	1,051	1,168	1,214	3,094	3,106
Do not want a job now .....	3,734	3,794	1,072	1,030	1,646	1,759	1,016	1,003	1,008	1,029	2,725	2,764
Current activity:												
Going to school .....	736	702	647	632	87	67	2	2	370	338	366	363
Ill, disabled .....	261	338	6	27	174	215	81	94	149	195	112	143
Keeping house .....	2,004	2,057	340	286	1,244	1,335	419	438	36	55	1,968	2,003
Retired .....	500	476	-	-	8	17	491	460	310	308	189	168
Other activity .....	233	221	78	85	133	125	23	9	143	133	90	87
Want a job now .....	527	526	172	182	317	297	36	47	159	184	369	341
Reason for not looking:												
School attendance .....	127	106	98	90	29	17	-	-	45	60	82	46
Ill health, disability .....	67	93	5	10	44	61	17	23	40	56	27	37
Home responsibilities .....	156	134	43	37	111	89	3	7	-	-	156	134
Think cannot get a job .....	98	87	8	26	79	53	10	7	43	29	55	57
Other reasons <sup>1</sup> .....	79	106	18	19	54	77	6	10	31	39	49	67

<sup>1</sup> 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" group 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 1987							
	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
<b>TOTAL</b>								
Personal factors:								
Employers think too young or old .....	120	9	-	37	74	86	25	2
Lacks education or training .....	132	21	14	96	-	92	28	25
Other personal handicap .....	72	3	19	27	23	55	17	16
Job-market factors:								
Could not find work .....	260	26	23	187	24	165	80	23
Thinks no job available .....	306	13	38	189	68	200	96	21
<b>Men</b>								
Personal factors:								
Employers think too young or old .....	48	9	-	15	24	25	18	-
Lacks education or training .....	50	21	3	25	-	30	12	12
Other personal handicap .....	29	3	3	15	8	21	8	8
Job-market factors:								
Could not find work .....	112	9	16	71	15	75	29	7
Thinks no job available .....	120	3	19	69	28	63	51	2
<b>Women</b>								
Personal factors:								
Employers think too young or old .....	73		-	22	51	61	8	2
Lacks education or training .....	82		10	70	-	62	15	13
Other personal handicap .....	43		16	12	16	34	9	8
Job-market factors:								
Could not find work .....	149	17	7	116	9	90	51	16
Thinks no job available .....	186	9	19	119	39	137	45	19

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 1986	IV 1987	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>												
Do not intend to seek work .....	52,691	53,095	5,798	5,842	16,727	16,757	30,165	30,496	45,778	45,937	5,509	5,583
Intend to seek work in the next 12 months .....	10,216	9,850	5,403	5,301	4,167	3,927	646	623	7,889	7,809	1,940	1,743
Never worked .....	1,696	1,657	1,548	1,476	145	178	1	2	1,113	1,136	487	452
Last worked over 5 years ago .....	1,295	1,174	60	45	1,047	932	188	199	913	902	339	239
Last worked 1 to 5 years ago .....	2,157	1,979	628	562	1,291	1,223	237	195	1,654	1,545	410	364
Worked during previous 12 months .....	5,069	5,040	3,166	3,218	1,684	1,595	219	227	4,207	4,227	705	688
<b>Men</b>												
Do not intend to seek work .....	16,806	17,155	2,330	2,385	2,911	3,112	11,565	11,657	14,357	14,604	2,007	2,048
Intend to seek work in the next 12 months .....	3,966	3,975	2,555	2,606	1,102	1,050	309	319	3,109	3,178	673	660
Never worked .....	750	736	736	710	15	27	-	-	505	523	201	180
Last worked over 5 years ago .....	252	276	12	9	190	172	50	94	173	185	58	80
Last worked 1 to 5 years ago .....	698	625	105	182	379	343	4	101	533	482	126	110
Worked during previous 12 months .....	2,266	2,338	1,609	1,705	520	509	137	124	1,897	1,989	289	289
<b>Women</b>												
Do not intend to seek work .....	35,884	35,941	3,469	3,457	13,816	13,645	18,600	18,837	31,421	31,333	3,502	3,535
Intend to seek work in the next 12 months .....	6,251	5,875	2,849	2,696	3,064	2,876	338	304	4,780	4,631	1,267	1,083
Never worked .....	946	920	813	766	131	151	1	2	608	613	286	272
Last worked over 5 years ago .....	1,043	899	49	36	856	760	138	103	740	717	281	159
Last worked 1 to 5 years ago .....	1,459	1,354	430	382	914	879	115	94	1,121	1,063	284	254
Worked during previous 12 months .....	2,803	2,702	1,557	1,512	1,163	1,086	83	104	2,310	2,238	416	398

**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 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	181,365	183,467	155,982	157,448	20,120	20,481	12,504	13,043
Civilian labor force .....	118,457	120,520	102,314	103,702	12,671	13,155	8,243	8,723
Percent of population .....	65.3	65.7	65.6	65.9	63.0	64.2	65.9	66.9
Employed .....	110,732	113,795	96,548	98,739	10,942	11,615	7,431	7,998
Agriculture .....	3,031	3,064	2,838	2,860	155	157	342	340
Nonagricultural industries .....	107,700	110,732	93,711	95,879	10,787	11,458	7,089	7,658
Unemployed .....	7,725	6,725	5,766	4,963	1,729	1,540	812	725
Unemployment rate .....	6.5	5.6	5.6	4.8	13.6	11.7	9.9	8.3
Not in labor force .....	62,908	62,947	53,668	53,746	7,449	7,326	4,261	4,320
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	86,183	87,256	74,668	75,441	9,016	9,187	6,188	6,461
Civilian labor force .....	65,410	66,125	57,201	57,659	6,336	6,479	5,020	5,247
Percent of population .....	75.9	75.8	76.6	76.4	70.3	70.5	81.1	81.2
Employed .....	61,110	62,483	53,922	54,874	5,458	5,743	4,514	4,818
Agriculture .....	2,400	2,408	2,236	2,229	135	138	300	302
Nonagricultural industries .....	58,710	60,074	51,687	52,645	5,323	5,605	4,213	4,517
Unemployed .....	4,300	3,643	3,278	2,784	878	736	506	428
Unemployment rate .....	6.6	5.5	5.7	4.8	13.9	11.4	10.1	8.2
Not in labor force .....	20,773	21,130	17,467	17,782	2,680	2,708	1,168	1,214
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	78,883	79,898	68,680	69,431	7,963	8,117	5,533	5,784
Civilian labor force .....	61,597	62,227	53,880	54,315	5,941	6,033	4,703	4,894
Percent of population .....	78.1	77.9	78.5	78.2	74.6	74.3	85.0	84.6
Employed .....	57,998	59,256	51,138	52,030	5,212	5,445	4,258	4,529
Agriculture .....	2,249	2,253	2,091	2,077	131	135	288	286
Nonagricultural industries .....	55,748	57,003	49,046	49,953	5,081	5,311	3,971	4,243
Unemployed .....	3,599	2,971	2,742	2,285	729	588	445	364
Unemployment rate .....	5.8	4.8	5.1	4.2	12.3	9.7	9.5	7.4
Not in labor force .....	17,286	17,671	14,800	15,116	2,022	2,084	830	891
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	95,183	96,211	81,314	82,007	11,104	11,294	6,316	6,582
Civilian labor force .....	53,047	54,395	45,113	46,043	6,335	6,676	3,222	3,476
Percent of population .....	55.7	56.5	55.5	56.1	57.1	59.1	51.0	52.8
Employed .....	49,622	51,313	42,626	43,865	5,484	5,872	2,917	3,180
Agriculture .....	631	655	602	631	20	19	41	38
Nonagricultural industries .....	48,991	50,658	42,024	43,234	5,464	5,853	2,875	3,142
Unemployed .....	3,425	3,082	2,487	2,178	851	804	306	296
Unemployment rate .....	6.5	5.7	5.5	4.7	13.4	12.0	9.5	8.5
Not in labor force .....	42,136	41,817	36,201	35,964	4,769	4,618	3,094	3,106
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	87,935	88,925	75,406	76,091	10,015	10,192	5,667	5,916
Civilian labor force .....	49,381	50,634	41,909	42,817	5,949	6,245	2,995	3,204
Percent of population .....	56.2	56.9	55.6	56.3	59.4	61.3	52.8	54.2
Employed .....	46,565	48,129	39,886	41,050	5,230	5,584	2,738	2,979
Agriculture .....	604	624	576	601	19	18	38	36
Nonagricultural industries .....	45,960	47,506	39,310	40,450	5,210	5,566	2,700	2,943
Unemployed .....	2,817	2,505	2,023	1,767	719	661	257	225
Unemployment rate .....	5.7	4.9	4.8	4.1	12.1	10.6	8.6	7.0
Not in labor force .....	38,554	38,291	33,496	33,273	4,066	3,947	2,672	2,712
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,547	14,644	11,896	11,926	2,142	2,172	1,305	1,342
Civilian labor force .....	7,479	7,659	6,525	6,570	781	877	546	625
Percent of population .....	51.4	52.3	54.8	55.1	36.5	40.4	41.8	46.6
Employed .....	6,170	6,411	5,525	5,659	501	586	435	490
Agriculture .....	178	187	170	183	6	4	16	18
Nonagricultural industries .....	5,992	6,223	5,354	5,476	495	582	419	472
Unemployed .....	1,309	1,249	1,000	911	280	292	111	135
Unemployment rate .....	17.5	16.3	15.3	13.9	35.9	33.2	20.3	21.6
Not in labor force .....	7,068	6,985	5,371	5,357	1,361	1,295	759	717

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 <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	12,504	13,043	7,483	7,733	1,516	1,549	787	866
Civilian labor force .....	8,243	8,723	5,082	5,270	811	830	537	598
Percent of population .....	65.9	66.9	67.9	68.1	53.5	53.6	68.2	69.1
Employed .....	7,431	7,998	4,548	4,798	708	734	517	560
Agriculture .....	342	340	303	295	8	4	6	9
Nonagricultural industries .....	7,089	7,658	4,245	4,503	701	729	511	551
Unemployed .....	812	725	534	472	103	96	21	39
Unemployment rate .....	9.9	8.3	10.5	9.0	12.7	11.6	3.9	6.5
Not in labor force .....	4,261	4,320	2,401	2,463	705	719	249	268
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	6,188	6,461	3,882	3,970	672	673	383	416
Civilian labor force .....	5,020	5,247	3,212	3,284	491	480	303	335
Percent of population .....	81.1	81.2	82.7	82.7	73.1	71.3	79.1	80.5
Employed .....	4,514	4,818	2,883	2,994	426	421	290	314
Agriculture .....	300	302	271	268	7	3	5	7
Nonagricultural industries .....	4,213	4,517	2,612	2,725	419	418	285	307
Unemployed .....	506	428	330	290	65	59	13	21
Unemployment rate .....	10.1	8.2	10.3	8.8	13.3	12.2	4.4	6.2
Not in labor force .....	1,168	1,214	670	686	181	193	80	81
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	5,533	5,784	3,446	3,523	581	609	363	396
Civilian labor force .....	4,703	4,894	2,994	3,035	448	454	298	327
Percent of population .....	85.0	84.6	86.9	86.1	77.1	74.5	82.1	82.6
Employed .....	4,258	4,529	2,709	2,794	391	401	284	308
Agriculture .....	288	286	262	254	5	3	5	7
Nonagricultural industries .....	3,971	4,243	2,446	2,539	385	398	279	300
Unemployed .....	445	364	285	241	57	53	13	20
Unemployment rate .....	9.5	7.4	9.5	7.9	12.7	11.7	4.5	6.0
Not in labor force .....	830	891	452	488	134	155	65	69
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	6,316	6,582	3,601	3,763	844	875	404	450
Civilian labor force .....	3,222	3,476	1,870	1,986	320	350	234	263
Percent of population .....	51.0	52.8	51.9	52.8	37.9	40.0	57.9	58.4
Employed .....	2,917	3,180	1,665	1,804	282	312	227	245
Agriculture .....	41	38	33	26	-	1	1	1
Nonagricultural industries .....	2,875	3,142	1,633	1,778	282	311	227	244
Unemployed .....	306	296	205	182	37	37	7	18
Unemployment rate .....	9.5	8.5	11.0	9.1	11.7	10.7	3.1	6.8
Not in labor force .....	3,094	3,106	1,731	1,777	524	526	170	186
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	5,667	5,916	3,194	3,351	725	785	394	428
Civilian labor force .....	2,995	3,204	1,730	1,812	281	319	228	252
Percent of population .....	52.8	54.2	54.2	54.1	38.8	40.6	57.9	58.9
Employed .....	2,738	2,979	1,556	1,677	255	291	221	238
Agriculture .....	38	36	30	24	-	1	1	1
Nonagricultural industries .....	2,700	2,943	1,526	1,653	255	289	220	237
Unemployed .....	257	225	174	135	26	28	8	14
Unemployment rate .....	8.6	7.0	10.1	7.5	9.2	8.9	3.3	5.7
Not in labor force .....	2,672	2,712	1,464	1,539	445	466	166	175
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	1,305	1,342	843	859	209	154	30	42
Civilian labor force .....	546	625	359	423	83	56	12	19
Percent of population .....	41.8	46.6	42.6	49.2	39.7	36.4	( <sup>2</sup> )	( <sup>2</sup> )
Employed .....	435	490	284	327	63	42	12	14
Agriculture .....	16	18	12	16	2	-	-	-
Nonagricultural industries .....	419	472	273	311	61	42	12	14
Unemployed .....	111	135	75	96	20	15	-	5
Unemployment rate .....	20.3	21.6	20.8	22.6	24.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	759	717	484	436	126	98	18	23

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

<sup>2</sup> 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 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	110,732	113,795	96,548	98,739	10,942	11,615	7,431	7,998
Men .....	61,110	62,483	53,922	54,874	5,458	5,743	4,514	4,818
Women .....	49,622	51,313	42,626	43,865	5,484	5,872	2,917	3,180
<b>OCCUPATION</b>								
Managerial and professional specialty .....	27,150	28,364	24,635	25,598	1,638	1,825	934	1,133
Executive, administrative, and managerial .....	12,870	13,573	11,831	12,377	685	815	459	552
Professional specialty .....	14,280	14,791	12,804	13,221	953	1,009	475	581
Technical, sales, and administrative support .....	34,957	35,686	31,000	31,381	2,956	3,196	1,931	2,015
Technicians and related support .....	3,398	3,415	3,000	2,960	257	294	139	120
Sales occupations .....	13,654	13,730	12,522	12,465	769	859	700	722
Administrative support, including clerical .....	17,904	18,541	15,478	15,956	1,930	2,042	1,092	1,173
Service occupations .....	14,789	15,119	11,726	11,906	2,546	2,700	1,308	1,376
Private household .....	961	946	713	713	226	210	119	122
Protective service .....	1,769	1,912	1,454	1,600	288	281	88	119
Service, except private household and protective .....	12,059	12,261	9,559	9,593	2,031	2,209	1,102	1,134
Precision production, craft, and repair .....	13,533	13,622	12,164	12,295	1,029	999	1,053	1,137
Mechanics and repairers .....	4,343	4,422	3,930	3,992	318	327	319	338
Construction trades .....	4,982	5,092	4,530	4,639	371	362	358	393
Other precision production, craft, and repair .....	4,208	4,108	3,705	3,665	341	310	376	406
Operators, fabricators, and laborers .....	17,091	17,743	14,086	14,547	2,546	2,699	1,830	1,951
Machine operators, assemblers, and inspectors .....	7,810	8,098	6,388	6,592	1,145	1,214	953	1,080
Transportation and material moving occupations .....	4,657	4,811	3,898	3,995	677	730	366	335
Handlers, equipment cleaners, helpers, and laborers .....	4,625	4,834	3,800	3,960	724	755	511	536
Construction laborers .....	714	795	599	643	104	134	107	99
Other handlers, equipment cleaners, helpers, and laborers .....	3,911	4,038	3,201	3,317	620	621	405	437
Farming, forestry, and fishing .....	3,212	3,262	2,936	3,012	227	197	375	386
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,479	1,523	1,340	1,358	116	135	303	271
Self-employed workers .....	1,399	1,407	1,347	1,370	39	22	37	65
Unpaid family workers .....	153	134	151	132	1		2	4
Nonagricultural industries:								
Wage and salary workers .....	99,270	102,123	85,892	87,953	10,423	11,070	6,687	7,258
Government .....	16,553	17,267	13,545	14,052	2,486	2,626	868	1,061
Private industries .....	82,717	84,856	72,348	73,902	7,938	8,444	5,819	6,197
Private households .....	1,185	1,212	881	911	279	269	146	145
Other industries .....	81,532	83,644	71,466	72,990	7,659	8,175	5,673	6,052
Self-employed workers .....	8,176	8,371	7,582	7,715	361	382	387	384
Unpaid family workers .....	254	239	236	211	2	6	15	17
<b>FULL- AND PART-TIME STATUS<sup>1</sup></b>								
Full-time schedules .....	89,294	91,932	77,677	79,535	8,961	9,564	6,067	6,650
Part time for economic reasons .....	5,448	5,242	4,394	4,210	889	890	605	579
Part time for noneconomic reasons .....	15,989	16,621	14,478	14,995	1,093	1,161	759	769

<sup>1</sup> 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 <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	7,431	7,998	4,548	4,798	708	734	517	560
Men .....	4,514	4,818	2,883	2,994	426	421	290	314
Women .....	2,917	3,180	1,665	1,804	282	312	227	245
<b>OCCUPATION</b>								
Managerial and professional specialty .....	934	1,133	475	566	103	116	96	134
Executive, administrative, and managerial .....	459	552	233	293	57	53	49	68
Professional specialty .....	475	581	243	273	46	63	48	66
Technical, sales, and administrative support .....	1,931	2,015	1,061	1,095	223	216	177	208
Technicians and related support .....	139	120	81	61	11	10	12	13
Sales occupations .....	700	722	385	399	66	56	59	67
Administrative support, including clerical .....	1,092	1,173	595	635	146	150	105	129
Service occupations .....	1,308	1,376	772	806	120	114	68	59
Private household .....	119	122	63	64	2	5	5	5
Protective service .....	88	119	57	79	10	7	3	6
Service, except private household and protective .....	1,102	1,134	652	663	108	107	60	47
Precision production, craft, and repair .....	1,053	1,137	706	712	88	97	63	61
Mechanics and repairers .....	319	338	224	198	22	31	19	19
Construction trades .....	358	393	248	260	25	26	21	23
Other precision production, craft, and repair .....	376	406	233	254	40	40	24	20
Operators, fabricators, and laborers .....	1,830	1,951	1,207	1,281	166	189	105	90
Machine operators, assemblers, and inspectors .....	953	1,080	586	698	87	95	60	53
Transportation and material moving occupations .....	366	335	245	213	40	41	23	18
Handlers, equipment cleaners, helpers, and laborers .....	511	536	376	370	39	53	22	18
Construction laborers .....	107	99	93	81	2	4	2	3
Other handlers, equipment cleaners, helpers, and laborers .....	405	437	284	289	37	49	20	16
Farming, forestry, and fishing .....	375	386	327	338	9	2	7	7
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	303	271	272	239	8	4	5	4
Self-employed workers .....	37	65	30	55			1	4
Unpaid family workers .....	2	4	1	1				
Nonagricultural industries:								
Wage and salary workers .....	6,687	7,258	4,021	4,282	673	710	471	508
Government .....	868	1,061	564	670	106	132	32	44
Private industries .....	5,819	6,197	3,457	3,612	567	578	440	463
Private households .....	146	145	80	79	3	-	5	7
Other industries .....	5,673	6,052	3,377	3,533	564	578	435	456
Self-employed workers .....	387	384	213	214	27	20	37	40
Unpaid family workers .....	15	17	11	7	-	-	2	4
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	6,067	6,650	3,645	3,944	597	634	449	482
Part time for economic reasons .....	605	579	462	402	35	34	13	26
Part time for noneconomic reasons .....	759	769	441	451	76	66	55	52

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

<sup>2</sup> 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 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
Total, 16 years and over .....	110,732	113,795	96,548	98,739	10,942	11,615	7,431	7,998
16 to 19 years .....	6,170	6,411	5,525	5,659	501	586	435	490
16 to 17 years .....	2,504	2,588	2,305	2,350	141	177	153	145
18 to 19 years .....	3,666	3,823	3,220	3,309	360	408	282	345
20 to 24 years .....	13,704	13,370	11,945	11,527	1,417	1,482	1,265	1,294
25 years and over .....	90,857	94,016	79,079	81,554	9,024	9,547	5,731	6,214
25 to 54 years .....	76,435	79,221	66,209	68,439	7,802	8,218	5,145	5,574
55 years and over .....	14,422	14,795	12,869	13,115	1,221	1,329	586	641
Men, 16 years and over .....	61,110	62,483	53,922	54,874	5,458	5,743	4,514	4,818
16 to 19 years .....	3,112	3,227	2,785	2,844	247	298	256	289
16 to 17 years .....	1,229	1,271	1,129	1,156	66	89	80	83
18 to 19 years .....	1,884	1,956	1,656	1,688	180	209	175	206
20 to 24 years .....	7,153	6,899	6,256	5,976	731	743	778	761
25 years and over .....	50,844	52,356	44,882	46,054	4,481	4,702	3,480	3,768
25 to 54 years .....	42,384	43,712	37,233	38,278	3,853	4,023	3,093	3,384
55 years and over .....	8,461	8,644	7,648	7,776	626	679	386	383
Women, 16 years and over .....	49,622	51,313	42,626	43,865	5,484	5,872	2,917	3,180
16 to 19 years .....	3,057	3,183	2,740	2,815	255	288	179	201
16 to 17 years .....	1,275	1,317	1,175	1,194	74	89	72	63
18 to 19 years .....	1,782	1,866	1,564	1,621	180	199	107	139
20 to 24 years .....	6,551	6,470	5,689	5,551	686	739	487	533
25 years and over .....	40,014	41,659	34,197	35,500	4,543	4,845	2,251	2,446
25 to 54 years .....	34,051	35,508	28,976	30,161	3,949	4,195	2,050	2,188
55 years and over .....	5,962	6,150	5,221	5,339	595	650	201	258

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 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
Total, 16 years and over .....	6.5	5.6	5.6	4.8	13.6	11.7	9.9	8.3
16 to 19 years .....	17.5	16.3	15.3	13.9	35.9	33.2	20.3	21.6
16 to 17 years .....	19.1	18.8	16.7	16.1	45.5	41.5	22.5	26.2
18 to 19 years .....	16.4	14.6	14.3	12.2	31.1	28.8	19.0	19.5
20 to 24 years .....	9.8	8.2	7.9	6.5	23.1	19.0	11.9	8.8
25 years and over .....	5.1	4.4	4.5	3.8	10.2	8.6	8.5	7.0
25 to 54 years .....	5.4	4.6	4.7	4.0	10.6	9.3	8.6	7.0
55 years and over .....	3.7	3.1	3.3	3.0	7.2	4.1	7.1	6.6
Men, 16 years and over .....	6.6	5.5	5.7	4.8	13.9	11.4	10.1	8.2
16 to 19 years .....	18.4	17.2	16.1	14.9	37.6	33.2	19.5	18.2
16 to 17 years .....	19.9	20.2	17.9	17.7	45.2	40.1	21.6	22.2
18 to 19 years .....	17.3	15.1	14.9	13.0	34.2	29.8	18.5	16.4
20 to 24 years .....	10.2	8.4	8.6	7.0	21.4	17.7	12.5	9.0
25 years and over .....	5.2	4.3	4.6	3.8	10.6	8.3	8.7	7.1
25 to 54 years .....	5.4	4.5	4.8	4.0	10.8	9.0	8.8	7.0
55 years and over .....	4.1	3.2	3.5	3.1	9.3	4.5	7.9	7.9
Women, 16 years and over .....	6.5	5.7	5.5	4.7	13.4	12.0	9.5	8.5
16 to 19 years .....	16.6	15.3	14.5	12.8	34.1	33.2	21.4	26.1
16 to 17 years .....	18.3	17.3	15.6	14.4	45.8	43.0	23.5	31.0
18 to 19 years .....	15.3	13.9	13.6	11.5	27.6	27.8	19.9	23.6
20 to 24 years .....	9.4	7.9	7.1	6.0	24.8	20.2	10.8	8.5
25 years and over .....	5.1	4.5	4.4	3.8	9.8	8.9	8.1	6.7
25 to 54 years .....	5.4	4.7	4.7	4.0	10.5	9.6	8.3	7.0
55 years and over .....	3.1	3.0	2.9	3.0	5.0	3.7	5.6	4.1

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>DURATION</b>								
Total, 16 years and over .....	7,725	6,725	5,766	4,963	1,729	1,540	812	725
Less than 5 weeks .....	3,221	3,071	2,480	2,337	636	634	379	363
5 to 14 weeks .....	2,501	2,021	1,860	1,475	576	476	262	206
15 weeks and over .....	2,003	1,633	1,426	1,151	517	430	171	156
15 to 26 weeks .....	902	765	656	522	215	211	90	70
27 weeks and over .....	1,100	868	770	629	302	219	81	86
Average (mean) duration, in weeks .....	15.1	14.1	14.4	13.7	17.5	15.5	12.6	13.1
Median duration, in weeks .....	6.9	6.0	6.5	5.6	8.2	7.0	5.9	5.0
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	41.7	45.7	43.0	47.1	36.8	41.1	46.6	50.0
5 to 14 weeks .....	32.4	30.1	32.3	29.7	33.3	30.9	32.3	28.4
15 weeks and over .....	25.9	24.3	24.7	23.2	29.9	27.9	21.1	21.5
15 to 26 weeks .....	11.7	11.4	11.4	10.5	12.4	13.7	11.1	9.7
27 weeks and over .....	14.2	12.9	13.4	12.7	17.5	14.2	10.0	11.8

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.

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

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	7,725	6,725	5,766	4,963	1,729	1,540	812	725
Job losers .....	3,769	3,153	2,816	2,378	844	684	449	376
On layoff .....	991	834	830	697	144	116	111	80
Other job losers .....	2,778	2,319	1,986	1,681	701	568	338	296
Job leavers .....	1,036	945	860	767	150	150	88	89
Reentrants .....	2,037	1,847	1,502	1,301	472	471	191	157
New entrants .....	883	780	587	517	262	235	85	93
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	48.8	46.9	48.8	47.9	48.8	44.4	55.3	51.9
On layoff .....	12.8	12.4	14.4	14.0	8.3	7.6	13.7	11.0
Other job losers .....	36.0	34.5	34.4	33.9	40.5	36.9	41.6	40.9
Job leavers .....	13.4	14.1	14.9	15.5	8.7	9.8	10.8	12.2
Reentrants .....	26.4	27.5	26.0	26.2	27.3	30.6	23.5	21.6
New entrants .....	11.4	11.6	10.2	10.4	15.2	15.2	10.5	12.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	3.2	2.6	2.8	2.3	6.7	5.2	5.4	4.3
Job leavers .....	.9	.8	.8	.7	1.2	1.1	1.1	1.0
Reentrants .....	1.7	1.5	1.5	1.3	3.7	3.6	2.3	1.8
New entrants .....	.7	.6	.6	.5	2.1	1.8	1.0	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 1986	IV 1987	Total		Employed		Unemployed			
			IV 1986	IV 1987	IV 1986	IV 1987	Number		Percent of labor force	
							IV 1986	IV 1987	IV 1986	IV 1987
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,785	7,859	7,266	7,259	6,933	6,934	333	324	4.6	4.5
30 to 44 years .....	6,331	6,108	6,073	5,808	5,770	5,527	303	281	5.0	4.8
30 to 34 years .....	1,065	834	1,016	791	935	717	80	74	7.9	9.3
35 to 39 years .....	2,894	2,440	2,785	2,322	2,647	2,224	138	99	5.0	4.2
40 to 44 years .....	2,372	2,834	2,272	2,695	2,188	2,586	85	109	3.7	4.0
45 years and over .....	1,454	1,751	1,193	1,450	1,163	1,407	30	43	2.5	3.0
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	18,787	19,823	17,781	18,763	16,831	17,983	950	780	5.3	4.2
30 to 34 years .....	8,640	8,948	8,200	8,514	7,750	8,124	451	390	5.5	4.6
35 to 39 years .....	5,903	6,433	5,582	6,086	5,282	5,862	300	224	5.4	3.7
40 to 44 years .....	4,244	4,442	3,999	4,163	3,800	3,997	199	166	5.0	4.0

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data are limited to those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

**A-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 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL, 30 to 44 years</b>												
Civilian noninstitutional population .....	5,616	5,406	609	588	265	253	16,163	17,053	1,893	2,006	1,640	1,812
Civilian labor force .....	5,402	5,168	573	529	243	239	15,464	16,298	1,663	1,768	1,528	1,691
Employed .....	5,156	4,944	522	479	224	221	14,739	15,701	1,472	1,612	1,389	1,582
Unemployed .....	246	223	51	50	19	19	725	596	191	156	139	109
Unemployment rate .....	4.5	4.3	9.0	9.4	7.6	7.9	4.7	3.7	11.5	8.8	9.1	6.4
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	910	676	129	133	56	59	7,451	7,770	892	895	755	804
Civilian labor force .....	872	646	122	121	51	58	7,149	7,460	785	800	698	764
Employed .....	808	594	107	100	47	50	6,800	7,166	697	714	628	715
Unemployed .....	64	51	15	21	4	8	349	295	88	86	70	48
Unemployment rate .....	7.3	8.0	12.1	17.1	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.0	11.2	10.7	10.0	6.3
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	2,556	2,152	299	240	123	91	5,081	5,485	567	659	480	548
Civilian labor force .....	2,464	2,061	283	215	111	86	4,855	5,229	503	588	448	498
Employed .....	2,355	1,984	255	198	101	80	4,640	5,055	427	546	405	466
Unemployed .....	108	77	28	17	10	7	215	173	76	42	43	33
Unemployment rate .....	4.4	3.7	9.9	7.8	9.4	7.9	4.4	3.3	15.1	7.2	9.6	6.6
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	2,150	2,577	181	216	86	102	3,632	3,798	434	452	405	460
Civilian labor force .....	2,066	2,461	169	193	81	95	3,461	3,609	375	379	382	429
Employed .....	1,993	2,366	160	180	77	91	3,300	3,481	348	352	355	401
Unemployed .....	73	95	9	12	4	4	161	128	27	28	26	28
Unemployment rate .....	3.5	3.9	5.1	6.5	4.6	4.6	4.7	3.5	7.1	7.3	6.9	6.5

<sup>1</sup> Data not shown where base is less than 60,000.

NOTE: Male Vietnam-era veterans are those who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who never served in the Armed Forces; published data are limited to those 30 to 44 years of age, the group that most closely corresponds to

the bulk of the Vietnam-era veteran population. 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 1986					IV 1987				
	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
<b>TOTAL</b>										
Total families .....	63,518	5,780	30.0	70.0	60.1	64,178	4,970	29.0	71.0	62.4
With children under 18 years of age .....	31,608	3,441	32.1	67.9	57.7	31,504	3,030	31.7	68.3	60.0
Married-couple families .....	50,625	4,014	20.7	79.3	69.1	50,833	3,449	19.2	80.8	72.2
With children under 18 years of age .....	24,246	2,426	19.6	80.4	70.0	24,069	2,128	18.5	81.5	72.7
Families maintained by women .....	10,450	1,450	53.0	47.0	37.7	10,703	1,239	54.2	45.8	36.6
With children under 18 years of age .....	6,412	896	62.9	37.1	27.3	6,446	790	63.9	36.1	28.7
Families maintained by men .....	2,444	316	43.0	57.0	47.8	2,642	282	36.3	61.7	54.6
With children under 18 years of age .....	950	119	55.5	44.5	36.1	989	112	55.4	44.6	40.2
<b>White</b>										
Total families .....	54,832	4,405	27.2	72.8	62.5	55,299	3,722	25.8	74.2	65.3
With children under 18 years of age .....	26,469	2,594	27.9	72.1	61.3	26,350	2,229	27.3	72.7	63.9
Married-couple families .....	45,740	3,351	20.8	79.2	68.8	45,817	2,852	19.3	80.7	72.0
With children under 18 years of age .....	21,502	2,002	19.4	80.6	69.8	21,327	1,741	18.3	81.7	72.8
Families maintained by women .....	7,182	829	49.2	50.8	40.3	7,402	674	49.0	51.0	40.8
With children under 18 years of age .....	4,212	499	57.3	42.7	31.3	4,242	403	59.0	41.0	31.6
Families maintained by men .....	1,910	224	40.9	59.1	50.2	2,080	196	40.3	59.7	52.6
With children under 18 years of age .....	755	93	52.7	47.3	38.7	781	85	61.2	38.8	35.3
<b>Black</b>										
Total families .....	6,975	1,206	41.1	58.9	50.2	7,082	1,078	40.9	59.1	51.4
With children under 18 years of age .....	4,103	738	47.5	52.5	44.8	4,124	688	46.7	53.3	46.9
Married-couple families .....	3,547	534	20.0	80.0	70.4	3,592	468	19.0	81.0	72.6
With children under 18 years of age .....	1,908	335	19.8	80.2	71.3	1,901	301	18.9	81.1	72.4
Families maintained by women .....	2,983	589	59.1	40.9	33.4	3,039	533	61.4	38.6	31.5
With children under 18 years of age .....	2,029	378	70.9	29.1	22.2	2,051	367	70.5	29.5	25.4
Families maintained by men .....	445	83	50.0	50.0	39.3	451	77	31.6	68.4	60.5
With children under 18 years of age .....	166	26	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	172	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total families .....	4,250	624	34.8	65.2	54.2	4,471	534	30.1	69.9	60.5
With children under 18 years of age .....	2,792	442	39.1	60.9	50.6	2,885	347	33.4	66.6	57.1
Married-couple families .....	2,951	442	27.8	72.2	60.2	3,100	403	25.3	74.7	65.8
With children under 18 years of age .....	1,928	329	29.5	70.5	60.2	2,007	281	25.6	74.4	65.1
Families maintained by women .....	1,053	140	55.7	44.3	35.0	1,076	105	49.5	50.5	39.0
With children under 18 years of age .....	767	96	68.0	32.0	21.6	758	59	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Families maintained by men .....	246	42	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	295	26	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
With children under 18 years of age .....	97	17	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	120	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> 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 1986				IV 1987			
	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
<b>TOTAL</b>								
Total unemployed in families <sup>1</sup> .....	6,365	32.2	67.8	58.1	5,427	31.3	68.7	59.9
Husbands .....	1,601	38.6	61.4	45.8	1,299	38.4	61.6	48.4
With children under 18 years of age .....	1,018	41.8	58.2	41.8	819	41.6	58.4	44.6
Wives .....	1,253	17.0	83.0	75.6	1,107	15.9	84.1	78.2
With children under 18 years of age .....	815	14.9	85.1	77.9	726	14.1	85.9	79.9
Relatives in married-couple families .....	1,551	12.6	87.4	81.2	1,345	10.4	89.6	82.7
Women who maintain families .....	615	83.5	16.5	9.0	571	84.1	15.9	9.4
With children under 18 years of age .....	532	90.3	9.7	3.8	490	90.4	9.6	4.9
Relatives in families maintained by women .....	985	35.2	64.8	54.2	795	34.5	65.5	54.5
Men who maintain families .....	130	70.1	29.9	19.2	122	60.3	39.7	31.1
With children under 18 years of age .....	68	87.6	12.4	4.9	58	91.3	8.7	4.7
Relatives in families maintained by men .....	231	31.6	68.4	60.9	187	29.8	70.2	62.7
<b>White</b>								
Total unemployed in families <sup>1</sup> .....	4,762	29.3	70.7	60.6	3,984	28.3	71.7	62.6
Husbands .....	1,341	39.1	60.9	44.1	1,091	39.3	60.7	46.6
With children under 18 years of age .....	832	42.4	57.6	39.6	676	42.5	57.5	42.7
Wives .....	1,051	16.3	83.7	77.0	923	15.6	84.4	78.8
With children under 18 years of age .....	666	14.0	86.0	79.3	597	13.2	86.8	80.9
Relatives in married-couple families .....	1,250	11.8	88.2	82.1	1,047	9.3	90.7	84.0
Women who maintain families .....	332	80.9	19.1	9.5	290	79.0	21.0	12.1
With children under 18 years of age .....	286	87.3	12.7	4.5	241	86.5	13.5	7.0
Relatives in families maintained by women .....	535	32.7	67.3	56.6	417	31.3	68.7	58.0
Men who maintain families .....	89	69.3	30.7	18.3	91	63.8	36.2	25.1
With children under 18 years of age .....	49	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	48	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	163	29.2	70.8	64.4	125	31.2	68.8	63.5
<b>Black</b>								
Total unemployed in families <sup>1</sup> .....	1,412	42.3	57.7	49.0	1,248	42.0	58.0	50.5
Husbands .....	197	36.6	63.4	54.3	162	34.2	65.8	58.1
With children under 18 years of age .....	142	39.8	60.2	52.5	108	36.6	63.4	53.5
Wives .....	161	19.3	80.7	68.2	143	19.6	80.4	73.2
With children under 18 years of age .....	117	17.9	82.1	71.2	107	21.2	78.8	72.8
Relatives in married-couple families .....	260	16.6	83.4	76.0	243	15.0	85.0	77.5
Women who maintain families .....	271	87.1	12.9	7.7	266	91.0	9.0	6.3
With children under 18 years of age .....	239	93.8	6.2	3.1	237	95.8	4.2	3.1
Relatives in families maintained by women .....	424	38.4	61.6	51.5	351	38.5	61.5	50.7
Men who maintain families .....	37	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	25	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	18	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	61	41.0	59.0	49.4	56	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Hispanic origin</b>								
Total unemployed in families <sup>1</sup> .....	702	36.7	63.3	53.2	595	30.9	69.1	58.8
Husbands .....	210	50.2	49.8	37.1	179	49.3	50.7	41.8
With children under 18 years of age .....	167	54.0	46.0	34.2	138	49.0	51.0	41.0
Wives .....	112	22.3	77.7	68.3	121	15.8	84.2	78.1
With children under 18 years of age .....	89	22.8	77.2	72.0	78	13.4	86.6	79.9
Relatives in married-couple families .....	180	10.0	90.0	80.9	151	9.1	90.9	76.1
Women who maintain families .....	69	76.7	23.3	12.9	43	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	60	85.1	14.9	6.7	35	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by women .....	79	43.6	56.4	47.8	75	35.7	64.3	53.4
Men who maintain families .....	19	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	10	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	33	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	18	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

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

<sup>2</sup> 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 1986				IV 1987			
	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
<b>TOTAL</b>								
Total employed in families <sup>1</sup> .....	90,349	23.2	76.8	65.1	92,267	22.7	77.3	65.6
Husbands .....	38,194	30.6	69.4	50.6	38,613	29.6	70.4	51.3
With children under 18 years of age .....	22,226	32.5	67.5	45.1	22,196	31.1	68.9	46.3
Wives .....	27,054	9.2	90.8	85.8	27,795	8.6	91.4	86.4
With children under 18 years of age .....	14,769	5.6	94.4	90.2	15,027	4.9	95.1	91.2
Relatives in married-couple families .....	11,741	6.7	93.3	89.0	11,572	7.3	92.7	88.4
Women who maintain families .....	5,896	63.8	36.2	24.0	6,139	62.5	37.5	24.6
With children under 18 years of age .....	3,959	78.5	21.5	10.2	4,041	79.0	21.0	9.1
Relatives in families maintained by women .....	4,428	24.9	75.1	64.5	4,802	24.3	75.7	66.0
Men who maintain families .....	1,730	53.7	46.3	35.3	1,857	52.8	47.2	34.5
With children under 18 years of age .....	782	78.3	21.7	12.2	812	80.6	19.4	8.2
Relatives in families maintained by men .....	1,306	17.6	82.4	74.4	1,489	18.3	81.7	74.3
<b>White</b>								
Total employed in families <sup>1</sup> .....	79,126	22.6	77.4	65.4	80,332	22.1	77.9	65.6
Husbands .....	34,583	31.0	69.0	49.5	34,860	30.1	69.9	50.0
With children under 18 years of age .....	19,890	33.0	67.0	43.5	19,840	31.7	68.3	44.5
Wives .....	24,161	8.8	91.2	86.3	24,688	8.2	91.8	86.8
With children under 18 years of age .....	13,006	5.2	94.8	90.8	13,175	4.4	95.6	91.8
Relatives in married-couple families .....	10,434	6.5	93.5	89.3	10,160	7.1	92.9	88.6
Women who maintain families .....	4,232	61.2	38.8	25.4	4,389	60.5	39.5	25.0
With children under 18 years of age .....	2,802	78.8	23.2	10.4	2,850	77.6	22.4	8.5
Relatives in families maintained by women .....	3,262	24.6	75.4	64.5	3,555	25.4	74.6	64.9
Men who maintain families .....	1,399	52.9	47.1	35.7	1,504	52.6	47.4	34.2
With children under 18 years of age .....	639	77.1	22.9	12.8	653	80.8	19.2	7.9
Relatives in families maintained by men .....	1,054	17.3	82.7	75.3	1,176	17.5	82.5	75.9
<b>Black</b>								
Total employed in families <sup>1</sup> .....	8,528	30.0	70.0	61.4	9,045	28.1	71.9	63.5
Husbands .....	2,554	25.6	74.4	62.5	2,619	23.1	76.9	65.6
With children under 18 years of age .....	1,630	25.4	74.6	62.3	1,641	22.9	77.1	65.4
Wives .....	2,050	13.6	86.4	80.7	2,188	12.8	87.2	81.5
With children under 18 years of age .....	1,251	9.2	90.8	85.4	1,312	9.2	90.8	85.5
Relatives in married-couple families .....	937	8.8	91.2	86.7	995	9.8	90.2	85.2
Women who maintain families .....	1,492	71.6	28.4	19.9	1,598	68.5	31.5	23.2
With children under 18 years of age .....	1,054	83.9	16.1	9.0	1,101	82.7	17.3	10.6
Relatives in families maintained by women .....	1,025	26.6	73.4	64.3	1,136	21.4	78.6	69.3
Men who maintain families .....	270	60.7	39.3	30.9	276	58.7	41.3	31.5
With children under 18 years of age .....	122	86.2	13.8	7.8	137	82.3	17.7	7.8
Relatives in families maintained by men .....	200	20.8	79.2	67.8	233	25.1	74.9	62.1
<b>Hispanic origin</b>								
Total employed in families <sup>1</sup> .....	5,937	26.5	73.5	63.8	6,412	26.5	73.5	63.7
Husbands .....	2,332	37.9	62.1	49.0	2,457	37.6	62.4	48.5
With children under 18 years of age .....	1,640	41.2	58.8	44.2	1,744	39.7	60.3	45.8
Wives .....	1,450	9.0	91.0	84.6	1,572	8.1	91.9	85.4
With children under 18 years of age .....	956	8.8	91.2	84.7	1,053	7.5	92.5	86.7
Relatives in married-couple families .....	952	5.2	94.8	88.8	963	7.8	92.2	85.5
Women who maintain families .....	469	65.3	34.7	25.4	534	62.6	37.4	27.3
With children under 18 years of age .....	339	76.7	23.3	15.7	364	79.9	20.1	12.6
Relatives in families maintained by women .....	397	24.1	75.9	63.2	465	19.3	80.7	72.0
Men who maintain families .....	187	48.5	51.5	45.1	243	55.2	44.8	37.9
With children under 18 years of age .....	80	81.4	18.6	15.0	101	87.7	12.3	8.2
Relatives in families maintained by men .....	150	12.8	87.2	78.8	179	8.1	91.9	84.6

<sup>1</sup> Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. 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 (in thousands)		Median weekly earnings	
	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>				
Total families with earners <sup>1</sup> .....	42,337	43,079	\$552	\$579
Married-couple families .....	33,735	34,031	616	647
One earner .....	12,930	12,554	397	419
Husband .....	9,755	9,504	473	488
Wife .....	2,389	2,242	218	238
Other family member .....	776	808	217	209
Two or more earners .....	20,806	21,477	757	782
Husband and wife .....	18,278	18,937	770	795
Husband and other family member(s) .....	1,869	1,868	737	740
Wife and other family member(s) .....	466	522	482	498
Other family members only .....	193	150	463	527
Families maintained by women .....	6,834	7,174	318	329
One earner .....	4,682	4,753	251	261
Householder .....	3,746	3,703	258	267
Other family member .....	936	1,051	216	228
Two or more earners .....	2,152	2,421	500	526
Families maintained by men .....	1,767	1,875	439	481
One earner .....	1,046	1,100	327	350
Two or more earners .....	721	774	835	691
<b>White</b>				
Total families with earners <sup>1</sup> .....	36,156	36,794	576	599
Married-couple families .....	29,919	30,104	627	658
One earner .....	11,548	11,209	408	433
Husband .....	8,813	8,617	482	498
Wife .....	2,054	1,914	220	236
Two or more earners .....	18,371	18,895	768	792
Husband and wife .....	16,115	16,672	779	805
Families maintained by women .....	4,872	5,204	331	344
Families maintained by men .....	1,365	1,485	466	504
<b>Black</b>				
Total families with earners <sup>1</sup> .....	4,906	5,046	399	431
Married-couple families .....	2,817	2,927	514	539
One earner .....	1,015	948	269	296
Husband .....	652	570	305	352
Wife .....	295	272	195	219
Two or more earners .....	1,802	1,979	643	661
Husband and wife .....	1,609	1,767	663	668
Families maintained by women .....	1,769	1,807	273	294
Families maintained by men .....	319	312	364	351
<b>Hispanic origin</b>				
Total families with earners <sup>1</sup> .....	3,089	3,333	411	450
Married-couple families .....	2,292	2,443	468	496
One earner .....	949	1,043	284	317
Husband .....	775	829	304	345
Wife .....	127	126	200	199
Two or more earners .....	1,343	1,400	598	627
Husband and wife .....	1,078	1,159	639	658
Families maintained by women .....	601	632	277	303
Families maintained by men .....	196	258	370	433

<sup>1</sup> 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 (in thousands)		Median weekly earnings	
	IV 1986	IV 1987	IV 1986	IV 1987
Married-couple families <sup>1</sup> .....	2,870	2,439	\$370	\$405
Husband unemployed .....	952	760	242	251
Wife only earner .....	763	598	227	237
Wife and other earner(s) .....	108	97	492	( <sup>2</sup> )
Other earner(s) only .....	81	65	( <sup>2</sup> )	( <sup>2</sup> )
Wife unemployed .....	948	813	396	397
Husband only earner .....	795	726	371	386
Husband and other earner(s) .....	130	72	584	( <sup>2</sup> )
Other earner(s) only .....	23	14	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	970	866	599	667
Husband or wife earner .....	428	320	434	505
Both husband and wife earners .....	500	486	768	828
Other combinations of earners .....	42	61	( <sup>2</sup> )	( <sup>2</sup> )
Families maintained by women <sup>1</sup> .....	614	537	284	278
Householder unemployed .....	76	86	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	537	452	303	299
Families maintained by men <sup>1</sup> .....	188	145	337	355

<sup>1</sup> 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.

<sup>2</sup> 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 1986	IV 1987	IV 1986	IV 1987
<b>SEX AND AGE</b>				
Total, 16 years and over .....	78,779	81,563	\$368	\$381
Men, 16 years and over .....	46,094	47,405	428	445
16 to 24 years .....	6,432	6,345	254	265
25 years and over .....	39,662	41,060	472	481
Women, 16 years and over .....	32,685	34,157	296	309
16 to 24 years .....	5,301	5,412	226	232
25 years and over .....	27,384	28,746	312	326
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	30,773	31,332	481	493
Wives .....	17,086	17,680	302	316
Women who maintain families .....	4,639	4,841	298	309
Men who maintain families .....	1,393	1,478	376	402
Other persons in families:				
Men .....	5,869	6,111	260	274
Women .....	4,030	4,463	229	244
All other men <sup>1</sup> .....	8,057	8,484	399	411
All other women <sup>1</sup> .....	6,933	7,172	321	338
<b>RACE AND HISPANIC ORIGIN</b>				
White .....	67,692	69,784	380	391
Men .....	40,267	41,231	445	462
Women .....	27,425	28,553	301	312
Black .....	8,719	9,339	293	306
Men .....	4,460	4,760	320	334
Women .....	4,258	4,579	265	283
Hispanic origin .....	5,694	6,350	285	290
Men .....	3,692	3,984	301	316
Women .....	2,002	2,366	255	253

<sup>1</sup> 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-74. Median weekly earnings of part-time wage and salary workers by selected characteristics**

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	IV 1986	IV 1987	IV 1986	IV 1987
<b>SEX AND AGE</b>				
Total, 16 years and over .....	18,902	18,941	\$99	\$101
Men, 16 years and over .....	5,878	5,901	95	94
16 to 24 years .....	3,425	3,385	77	77
25 years and over .....	2,453	2,516	126	122
Women, 16 years and over .....	13,024	13,039	100	105
16 to 24 years .....	4,128	4,043	71	76
25 years and over .....	8,897	8,997	115	119
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	1,526	1,626	129	124
Wives .....	6,983	6,969	117	123
Women who maintain families .....	1,033	1,032	100	107
Men who maintain families .....	116	108	133	118
Other persons in families:				
Men .....	3,219	3,179	76	76
Women .....	3,432	3,439	69	71
All other men <sup>1</sup> .....	1,016	982	116	108
All other women <sup>1</sup> .....	1,576	1,606	104	107
<b>RACE AND HISPANIC ORIGIN</b>				
White .....	16,654	16,627	99	102
Men .....	5,021	5,051	94	95
Women .....	11,633	11,576	101	106
Black .....	1,771	1,799	93	92
Men .....	682	659	99	87
Women .....	1,090	1,140	90	95
Hispanic origin .....	1,206	1,076	102	105
Men .....	440	428	105	108
Women .....	765	648	100	104

<sup>1</sup> 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 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>				
Managerial and professional specialty .....	20,532	21,475	\$511	\$537
Executive, administrative, and managerial .....	10,121	10,646	514	551
Professional specialty .....	10,411	10,830	508	527
Technical, sales, and administrative support .....	24,217	24,974	327	341
Technicians and related support .....	2,828	2,879	435	440
Sales occupations .....	7,306	7,787	354	377
Administrative support, including clerical .....	14,083	14,309	308	316
Service occupations .....	7,856	8,051	222	237
Private household .....	343	315	134	142
Protective service .....	1,496	1,584	403	415
Service, except private household and protective .....	6,016	6,152	209	220
Precision production, craft, and repair .....	11,064	10,993	412	430
Mechanics and repairers .....	3,720	3,818	422	436
Construction trades .....	3,526	3,555	405	420
Other precision production, craft, and repair .....	3,818	3,620	408	437
Operators, fabricators, and laborers .....	13,821	14,851	303	309
Machine operators, assemblers, and inspectors .....	6,907	7,605	295	295
Transportation and material moving occupations .....	3,677	3,851	369	385
Handlers, equipment cleaners, helpers, and laborers .....	3,237	3,395	269	284
Farming, forestry, and fishing .....	1,288	1,218	218	224
<b>Men</b>				
Managerial and professional specialty .....	11,566	11,895	610	647
Executive, administrative, and managerial .....	6,110	6,423	623	667
Professional specialty .....	5,456	5,472	599	628
Technical, sales, and administrative support .....	9,048	9,284	449	463
Technicians and related support .....	1,549	1,592	505	501
Sales occupations .....	4,396	4,605	454	483
Administrative support, including clerical .....	3,103	3,087	413	412
Service occupations .....	3,852	3,984	292	294
Private household .....	13	22	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,366	1,383	410	428
Service, except private household and protective .....	2,474	2,580	244	254
Precision production, craft, and repair .....	10,141	10,112	423	445
Mechanics and repairers .....	3,567	3,695	422	436
Construction trades .....	3,495	3,521	406	421
Other precision production, craft, and repair .....	3,078	2,896	449	479
Operators, fabricators, and laborers .....	10,341	11,047	336	344
Machine operators, assemblers, and inspectors .....	4,143	4,541	356	351
Transportation and material moving occupations .....	3,473	3,675	375	389
Handlers, equipment cleaners, helpers, and laborers .....	2,724	2,830	275	292
Farming, forestry, and fishing .....	1,147	1,082	222	229
<b>Women</b>				
Managerial and professional specialty .....	8,866	9,580	424	451
Executive, administrative, and managerial .....	4,012	4,222	405	421
Professional specialty .....	4,955	5,358	445	471
Technical, sales, and administrative support .....	15,170	15,690	290	299
Technicians and related support .....	1,279	1,287	360	379
Sales occupations .....	2,910	3,182	243	249
Administrative support, including clerical .....	10,980	11,221	291	302
Service occupations .....	4,004	4,066	188	200
Private household .....	331	293	130	140
Protective service .....	131	201	313	327
Service, except private household and protective .....	3,543	3,572	191	202
Precision production, craft, and repair .....	923	881	276	307
Mechanics and repairers .....	153	123	409	476
Construction trades .....	30	34	( <sup>1</sup> )	( <sup>1</sup> )
Other precision production, craft, and repair .....	740	724	260	290
Operators, fabricators, and laborers .....	3,480	3,804	225	237
Machine operators, assemblers, and inspectors .....	2,764	3,064	220	232
Transportation and material moving occupations .....	204	175	296	317
Handlers, equipment cleaners, helpers, and laborers .....	512	565	236	248
Farming, forestry, and fishing .....	141	135	184	191

<sup>1</sup> 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 1986	IV 1987	Total		Central cities		Suburbs	
			IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	181,385	183,487	140,504	143,187	56,819	57,238	83,685	85,952
Civilian labor force .....	118,457	120,520	93,218	95,433	36,448	36,902	56,769	58,531
Percent of population .....	65.3	65.7	68.3	66.6	64.1	64.5	67.8	68.1
Employed .....	110,732	113,795	87,441	90,347	33,582	34,429	53,859	55,918
Unemployed .....	7,725	6,725	5,775	5,086	2,885	2,473	2,910	2,613
Unemployment rate .....	6.5	5.8	6.6	5.5	8.4	7.1	5.3	4.7
Not in labor force .....	82,908	62,947	47,288	47,754	20,373	20,334	26,915	27,420
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	78,883	79,898	61,009	62,283	24,259	24,560	36,750	37,723
Civilian labor force .....	61,597	62,227	48,341	49,122	18,703	18,751	29,638	30,371
Percent of population .....	76.1	77.9	79.2	78.9	77.1	76.3	80.6	80.5
Employed .....	57,998	59,256	45,633	46,886	17,329	17,613	28,305	29,273
Unemployed .....	3,599	2,971	2,708	2,236	1,374	1,138	1,334	1,098
Unemployment rate .....	5.8	4.8	5.6	4.6	7.3	6.1	4.5	3.6
Not in labor force .....	17,286	17,671	12,668	13,161	5,557	5,809	7,112	7,353
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	87,935	88,925	68,221	69,493	28,244	28,373	39,978	41,120
Civilian labor force .....	49,381	50,634	39,018	40,276	15,662	16,033	23,355	24,243
Percent of population .....	56.2	56.9	57.2	58.0	55.5	56.5	58.4	59.0
Employed .....	46,565	48,129	36,941	38,354	14,603	15,109	22,338	23,245
Unemployed .....	2,817	2,505	2,077	1,922	1,060	924	1,017	998
Unemployment rate .....	5.7	4.9	5.3	4.8	6.8	5.8	4.4	4.1
Not in labor force .....	38,554	38,291	29,204	29,217	12,581	12,340	16,622	16,877
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,547	14,644	11,273	11,411	4,316	4,303	6,957	7,108
Civilian labor force .....	7,479	7,659	5,857	6,035	2,081	2,118	3,776	3,918
Percent of population .....	51.4	52.3	52.0	52.9	48.2	49.2	54.3	55.1
Employed .....	6,170	6,411	4,867	5,107	1,650	1,707	3,217	3,400
Unemployed .....	1,309	1,249	990	928	431	411	559	517
Unemployment rate .....	17.5	16.3	16.9	15.4	20.7	19.4	14.8	13.2
Not in labor force .....	7,068	6,985	5,416	5,376	2,235	2,185	3,181	3,191
<b>White</b>								
Civilian noninstitutional population .....	155,982	157,448	119,376	121,338	42,692	42,928	76,684	78,410
Civilian labor force .....	102,314	103,702	79,539	81,090	27,657	27,887	51,882	53,203
Percent of population .....	65.6	65.9	66.8	66.8	64.8	65.0	67.7	67.9
Employed .....	96,548	98,739	75,353	77,438	25,973	26,431	49,380	51,007
Unemployed .....	5,766	4,963	4,187	3,652	1,684	1,455	2,502	2,197
Unemployment rate .....	5.6	4.8	5.3	4.5	6.1	5.2	4.8	4.1
Not in labor force .....	53,668	53,746	39,837	40,248	15,035	15,041	24,802	25,207
<b>Black</b>								
Civilian noninstitutional population .....	20,120	20,481	16,622	17,048	11,878	11,962	4,744	5,088
Civilian labor force .....	12,671	13,155	10,621	11,108	7,307	7,477	3,314	3,631
Percent of population .....	63.0	64.2	63.9	65.2	61.5	62.5	69.9	71.4
Employed .....	10,942	11,615	9,199	9,836	6,212	6,556	2,986	3,280
Unemployed .....	1,729	1,540	1,423	1,273	1,095	922	327	351
Unemployment rate .....	13.6	11.7	13.4	11.5	15.0	12.3	9.9	9.7
Not in labor force .....	7,449	7,326	6,001	5,940	4,571	4,485	1,430	1,455
<b>Hispanic origin</b>								
Civilian noninstitutional population .....	12,504	13,043	11,609	12,095	6,752	6,972	4,856	5,123
Civilian labor force .....	8,243	8,723	7,671	8,110	4,338	4,479	3,333	3,631
Percent of population .....	65.9	66.9	66.1	67.1	64.2	64.2	68.6	70.9
Employed .....	7,431	7,998	6,937	7,452	3,879	4,061	3,058	3,392
Unemployed .....	812	725	734	658	459	418	275	240
Unemployment rate .....	9.9	8.3	9.6	8.1	10.6	9.3	8.3	6.6
Not in labor force .....	4,261	4,320	3,937	3,985	2,414	2,493	1,523	1,491

**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 1986	IV 1987	IV 1986	IV 1987
	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987				
<b>TOTAL</b>										
Civilian noninstitutional population .....	40,861	40,280	2,808	2,758	38,053	37,522	133,715	135,175	47,650	48,292
Civilian labor force .....	25,241	25,087	1,916	1,937	23,325	23,150	87,816	89,253	30,641	31,267
Percent of population .....	61.8	62.3	68.2	70.2	61.3	61.7	65.7	66.0	64.3	64.7
Employed .....	23,291	23,449	1,865	1,902	21,426	21,546	82,084	84,197	28,648	29,599
Unemployed .....	1,950	1,638	52	35	1,898	1,604	5,732	5,056	1,993	1,669
Unemployment rate .....	7.7	6.5	2.7	1.8	8.1	6.9	6.5	5.7	6.5	5.3
Not in labor force .....	15,620	15,193	892	821	14,729	14,372	45,899	45,922	17,009	17,025
<b>Men, 20 years and over</b>										
Civilian noninstitutional population .....	17,871	17,604	1,335	1,307	16,535	16,298	57,531	58,269	21,349	21,619
Civilian labor force .....	13,256	13,099	1,122	1,100	12,133	11,999	45,181	45,532	16,416	16,689
Percent of population .....	74.2	74.4	84.0	84.2	73.4	73.6	78.5	78.1	76.9	77.2
Employed .....	12,364	12,365	1,105	1,086	11,260	11,279	42,535	43,326	15,462	15,925
Unemployed .....	891	734	17	14	874	720	2,646	2,206	953	764
Unemployment rate .....	6.7	5.6	1.5	1.3	7.2	6.0	5.9	4.8	5.8	4.6
Not in labor force .....	4,615	4,505	213	206	4,402	4,299	12,349	12,737	4,934	4,929
<b>Women, 20 years and over</b>										
Civilian noninstitutional population .....	19,717	19,443	1,255	1,219	18,462	18,224	65,640	66,387	22,298	22,549
Civilian labor force .....	10,364	10,364	668	701	9,696	9,663	37,131	38,155	12,251	12,485
Percent of population .....	52.6	53.3	53.2	57.5	52.5	53.0	56.6	57.5	54.9	55.4
Employed .....	9,624	9,780	648	689	8,976	9,092	35,032	36,252	11,532	11,882
Unemployed .....	740	584	20	12	720	571	2,098	1,903	719	602
Unemployment rate .....	7.1	5.6	3.0	1.8	7.4	5.9	5.7	5.0	5.9	4.8
Not in labor force .....	9,353	9,079	587	518	8,766	8,561	28,509	28,232	10,048	10,064
<b>Both sexes, 16 to 19 years</b>										
Civilian noninstitutional population .....	3,274	3,233	218	232	3,055	3,000	10,545	10,520	4,002	4,124
Civilian labor force .....	1,622	1,624	126	136	1,495	1,488	5,504	5,566	1,974	2,093
Percent of population .....	49.5	50.2	57.9	58.6	48.9	49.6	52.2	52.9	49.3	50.8
Employed .....	1,303	1,304	112	127	1,191	1,176	4,516	4,620	1,653	1,791
Unemployed .....	319	320	14	8	305	312	988	947	321	302
Unemployment rate .....	19.7	19.7	11.2	6.2	20.4	21.0	18.0	17.0	16.3	14.4
Not in labor force .....	1,652	1,609	92	96	1,560	1,512	5,041	4,953	2,028	2,031
<b>White</b>										
Civilian noninstitutional population .....	36,605	36,110	2,743	2,694	33,862	33,416	111,952	112,684	44,030	44,764
Civilian labor force .....	22,775	22,612	1,877	1,898	20,898	20,714	73,816	74,615	28,499	29,087
Percent of population .....	62.2	62.6	68.4	70.5	61.7	62.0	65.9	66.2	64.7	65.0
Employed .....	21,196	21,301	1,835	1,867	19,361	19,434	69,766	71,074	26,782	27,665
Unemployed .....	1,579	1,311	42	31	1,537	1,280	4,049	3,541	1,716	1,422
Unemployment rate .....	6.9	5.8	2.2	1.6	7.4	6.2	5.5	4.7	6.0	4.9
Not in labor force .....	13,831	13,498	867	796	12,964	12,702	38,136	38,068	15,531	15,677
<b>Black</b>										
Civilian noninstitutional population .....	3,498	3,432	52	53	3,446	3,379	17,229	17,651	2,891	2,829
Civilian labor force .....	2,050	2,047	31	34	2,019	2,013	10,964	11,419	1,708	1,736
Percent of population .....	58.6	59.6	( <sup>1</sup> )	( <sup>1</sup> )	58.6	59.6	63.6	64.7	59.1	61.4
Employed .....	1,744	1,779	23	30	1,721	1,749	9,455	10,070	1,488	1,545
Unemployed .....	306	267	7	3	299	264	1,509	1,349	220	191
Unemployment rate .....	14.9	13.1	( <sup>1</sup> )	( <sup>1</sup> )	14.8	13.1	13.8	11.8	12.9	11.0
Not in labor force .....	1,448	1,386	22	20	1,427	1,366	6,266	6,232	1,184	1,093
<b>Hispanic origin</b>										
Civilian noninstitutional population .....	896	948	37	43	859	905	11,592	12,100	913	943
Civilian labor force .....	572	613	25	29	546	583	7,629	8,073	614	650
Percent of population .....	63.8	64.7	( <sup>1</sup> )	( <sup>1</sup> )	63.6	64.5	65.8	66.7	67.2	69.0
Employed .....	494	546	25	30	468	516	6,887	7,402	543	596
Unemployed .....	78	67	-	-	78	67	742	670	70	54
Unemployment rate .....	13.7	10.9	( <sup>1</sup> )	( <sup>1</sup> )	14.3	11.6	9.7	8.3	11.4	8.3
Not in labor force .....	324	335	12	14	312	321	3,962	4,028	299	292

<sup>1</sup> 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**

**A-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 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987	IV 1986	IV 1987
<b>TOTAL</b>												
Civilian noninstitutional population .....	27,936	27,472	153,430	155,995	18,459	18,333	122,045	124,854	9,477	9,139	31,384	31,141
Civilian labor force .....	15,974	15,710	102,483	104,811	10,502	10,402	82,714	85,031	5,472	5,307	19,769	19,780
Percent of population .....	57.2	57.2	66.8	67.2	56.9	56.7	67.8	68.1	57.7	58.1	63.0	63.5
Employed .....	13,963	14,067	96,769	99,729	9,084	9,250	78,357	81,097	4,878	4,817	18,413	18,632
Unemployed .....	2,011	1,643	5,714	5,082	1,417	1,153	4,358	3,934	593	490	1,356	1,148
Unemployment rate .....	12.6	10.5	5.6	4.8	13.5	11.1	5.3	4.6	10.8	9.2	6.9	5.8
Men, 20 years and over .....	11.5	9.0	5.0	4.1	12.4	9.8	4.7	3.9	9.8	7.5	5.9	5.1
Women, 20 years and over .....	11.0	9.5	4.9	4.3	11.6	10.0	4.5	4.1	9.8	8.4	6.4	4.9
Both sexes, 16 to 19 years .....	32.3	27.6	15.2	14.5	34.5	27.2	14.6	13.8	27.6	28.4	17.7	17.4
Men .....	32.6	26.4	16.0	15.7	35.8	25.5	15.5	15.1	26.4	28.0	18.0	18.1
Women .....	31.9	29.0	14.4	13.3	33.1	29.1	13.7	12.6	29.1	28.8	17.3	16.7
Not in labor force .....	11,962	11,762	50,946	51,184	7,957	7,931	39,331	39,824	4,005	3,832	11,615	11,361
<b>White</b>												
Civilian noninstitutional population .....	16,762	16,587	139,220	140,861	9,768	9,847	109,608	111,491	6,994	6,740	29,611	29,370
Civilian labor force .....	9,717	9,604	92,597	94,098	5,632	5,657	73,907	75,433	4,085	3,947	18,690	18,665
Percent of population .....	58.0	57.9	66.5	66.8	57.7	57.5	67.4	67.7	58.4	58.6	63.1	63.6
Employed .....	8,785	8,861	87,763	89,878	5,040	5,179	70,313	72,259	3,746	3,682	17,450	17,619
Unemployed .....	932	743	4,834	4,220	592	478	3,595	3,174	340	265	1,239	1,046
Unemployment rate .....	9.6	7.7	5.2	4.5	10.5	8.5	4.9	4.2	8.3	6.7	6.6	5.6
Men, 20 years and over .....	9.2	7.0	4.6	3.9	10.2	8.0	4.4	3.6	7.8	5.6	5.7	5.0
Women, 20 years and over .....	7.9	6.7	4.5	3.9	8.6	7.4	4.1	3.7	7.0	5.6	6.1	4.7
Both sexes, 16 to 19 years .....	24.1	19.7	14.5	13.2	25.5	18.2	13.7	12.4	21.9	22.0	17.5	16.3
Men .....	23.1	18.4	15.4	14.5	25.5	16.0	14.8	13.8	19.2	21.6	17.8	17.2
Women .....	25.2	21.6	13.5	11.9	25.4	20.9	12.6	11.1	24.9	22.6	17.1	15.3
Not in labor force .....	7,045	6,983	46,623	46,763	4,136	4,190	35,701	36,058	2,909	2,793	10,922	10,705
<b>Black</b>												
Civilian noninstitutional population .....	10,161	9,848	9,960	10,633	7,984	7,752	8,638	9,296	2,177	2,096	1,321	1,336
Civilian labor force .....	5,684	5,519	6,988	7,636	4,458	4,328	6,164	6,780	1,226	1,191	824	856
Percent of population .....	55.9	56.0	70.2	71.8	55.8	55.8	71.4	72.9	56.3	56.8	62.4	64.0
Employed .....	4,688	4,693	6,254	6,922	3,677	3,688	5,522	6,148	1,011	1,005	733	774
Unemployed .....	996	825	733	715	781	640	642	633	215	185	91	82
Unemployment rate .....	17.5	15.0	10.5	9.4	17.5	14.8	10.4	9.3	17.5	15.6	11.0	9.6
Men, 20 years and over .....	15.7	12.9	9.6	7.5	15.8	13.0	9.8	7.6	15.4	12.3	8.5	6.3
Women, 20 years and over .....	15.3	13.4	9.4	8.5	15.0	13.1	9.1	8.5	16.6	14.7	12.1	8.5
Both sexes, 16 to 19 years .....	44.8	40.8	26.9	28.0	45.9	39.2	27.5	26.6	40.7	46.7	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	47.2	42.7	27.3	27.4	50.2	40.5	27.5	26.2	( <sup>1</sup> )	51.6	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	42.3	39.0	26.5	28.7	41.7	38.0	27.5	27.2	( <sup>1</sup> )	42.9	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	4,477	4,329	2,972	2,996	3,526	3,424	2,475	2,516	951	905	497	481
<b>Hispanic origin</b>												
Civilian noninstitutional population .....	4,329	4,471	8,175	8,571	3,982	4,124	7,626	7,971	347	348	549	600
Civilian labor force .....	2,474	2,602	5,769	6,121	2,267	2,394	5,405	5,716	207	208	365	405
Percent of population .....	57.1	58.2	70.6	71.4	56.9	58.1	70.9	71.7	59.7	59.8	66.4	67.4
Employed .....	2,146	2,332	5,285	5,667	1,967	2,149	4,970	5,303	178	183	315	363
Unemployed .....	328	270	485	454	299	245	435	413	29	26	49	42
Unemployment rate .....	13.3	10.4	8.4	7.4	13.2	10.2	8.0	7.2	13.9	12.3	13.6	10.3
Men, 20 years and over .....	12.9	9.5	7.8	6.5	12.9	9.6	7.5	6.4	13.9	8.2	12.5	8.8
Women, 20 years and over .....	11.1	9.4	7.6	6.1	11.1	9.1	7.2	6.0	11.4	12.9	14.0	7.7
Both sexes, 16 to 19 years .....	25.9	19.9	17.6	22.6	25.9	18.6	17.5	21.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	21.1	16.5	18.6	19.2	21.4	13.6	18.7	17.7	( <sup>1</sup> )	41.7	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	34.8	24.8	16.5	26.8	( <sup>1</sup> )	25.2	16.0	26.5	( <sup>1</sup> )	18.4	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	1,855	1,869	2,406	2,450	1,716	1,730	2,222	2,255	140	140	184	195

<sup>1</sup> 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  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Total</b> .....		101,234	101,289	103,787	104,093	104,333					
<b>Total private</b> .....		84,000	84,103	86,392	86,541	86,788	68,074	68,138	69,937	70,059	70,254
<b>Mining</b> .....		736	728	766	766	767	520	514	554	555	554
Metal mining .....	10	39.3	40.5	44.2	44.6		29.1	30.2	33.4	33.7	
Iron ores .....	101	6.7	7.4	9.3	9.3		4.8	5.5	7.1	7.1	
Copper ores .....	102	11.6	12.2	13.4	13.5		9.1	9.6	10.6	10.7	
Coal mining .....	11,12	170.1	167.4	163.1	163.0		139.7	137.1	133.6	133.5	
Bituminous coal and lignite mining .....	12	167.4	164.7	161.1	161.0		137.5	134.9	131.8	131.8	
Oil and gas extraction .....	13	416.5	414.8	443.0	444.7	449.6	267.4	267.0	298.2	299.5	
Crude petroleum, natural gas, and natural gas liquids .....	131,2	209.6	206.7	203.2	202.8	-	103.7	101.4	100.8	100.0	
Oil and gas field services .....	138	206.9	208.1	239.8	241.9		163.7	165.6	197.4	199.5	
Nonmetallic minerals, except fuels .....	14	109.7	104.8	115.3	113.6		84.2	79.4	89.2	88.1	
Crushed and broken stone .....	142	39.5	37.8	42.4	42.0		31.8	29.9	33.8	33.5	
Sand and gravel .....	144	33.1	30.6	34.8	33.8		-	-	-	-	
Chemical and fertilizer minerals .....	147	18.1	17.8	18.3	18.2						
<b>Construction</b> .....		5,078	4,861	5,321	5,209	5,055	4,008	3,794	4,200	4,086	3,932
General building contractors .....	15	1,322.8	1,271.9	1,334.9	1,316.8	1,286.9	983.8	936.6	986.1	967.5	
Residential building construction .....	152	671.8	645.0	697.9	689.6	-	485.4	461.5	500.2	491.9	
Operative builders .....	153	53.9	53.0	53.4	52.7		27.9	27.1	26.2	25.5	
Nonresidential building construction .....	154	597.1	573.9	583.6	574.5		470.5	448.0	459.7	450.1	
Heavy construction contractors .....	16	794.2	728.5	855.2	816.9		666.9	603.1	727.3	689.6	
Highway and street construction .....	161	289.1	245.2	336.5	313.4		243.2	200.1	286.9	263.4	
Heavy construction, except highway .....	162	505.1	483.3	518.7	503.5		423.7	403.0	440.4	426.2	
Special trade contractors .....	17	2,961.2	2,860.4	3,130.8	3,075.0		2,357.1	2,254.0	2,486.6	2,428.8	
Plumbing, heating, and air conditioning .....	171	646.5	642.3	678.8	674.8		480.8	475.5	505.7	499.7	
Painting, paper hanging, and decorating .....	172	166.5	159.6	176.8	172.0		139.6	132.3	148.7	144.5	
Electrical work .....	173	544.0	541.5	570.1	570.8		425.0	421.4	444.7	445.1	
Masonry, stonework, and plastering .....	174	488.7	470.6	512.4	499.8		418.7	400.6	438.6	425.4	
Carpentering and flooring .....	175	179.6	171.6	177.1	170.9		139.4	131.6	136.5	130.7	
Roofing and sheet metal work .....	176	225.3	212.9	232.9	226.4		184.2	171.5	186.9	182.9	
<b>Manufacturing</b> .....		19,014	18,974	19,355	19,402	19,384	12,940	12,908	13,232	13,268	13,257
<b>Durable goods</b> .....		11,204	11,185	11,361	11,398	11,403	7,415	7,402	7,570	7,605	7,612
Lumber and wood products .....	24	722.7	716.3	753.9	749.7	741.2	606.7	599.9	630.8	626.5	619.5
Logging camps and logging contractors .....	241	87.0	82.3	84.5	84.7	-	73.5	69.1	70.9	71.1	-
Sawmills and planing mills .....	242	196.6	196.3	205.6	205.3		174.1	173.3	181.6	181.1	
Sawmills and planing mills, general .....	2421	160.0	159.5	166.6	166.1		142.0	141.0	147.1	146.5	
Hardwood dimension and flooring .....	2426	33.6	33.8	36.1	36.2		29.5	29.7	31.8	31.9	
Millwork, plywood, and structural members .....	243	251.0	250.8	266.3	263.2		208.0	207.3	220.1	217.1	
Millwork .....	2431	95.3	94.7	103.8	101.6		77.4	76.4	84.2	81.9	
Wood kitchen cabinets .....	2434	68.4	68.8	71.8	71.5		55.1	55.5	58.0	57.6	
Hardwood veneer and plywood .....	2435	23.7	23.8	25.2	25.0		20.9	20.8	22.0	21.9	
Softwood veneer and plywood .....	2436	38.4	38.5	38.9	38.6		35.2	35.2	35.3	35.0	
Wood containers .....	244	39.6	39.1	40.6	40.3		33.4	33.0	34.4	34.2	
Wood buildings and mobile homes .....	245	70.6	69.5	75.2	74.6		53.2	52.3	57.1	56.4	
Mobile homes .....	2451	48.2	47.2	50.9	50.3		38.5	37.9	41.2	40.6	
Miscellaneous wood products .....	249	77.9	78.3	81.7	81.6		64.5	64.9	66.7	66.6	

See footnotes at end of table.









**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>a</sup>	Dec. 1987 <sup>a</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>a</sup>	Dec. 1987 <sup>a</sup>
<b>Nondurable goods</b> .....		7,810	7,789	7,994	8,004	7,981	5,525	5,506	5,662	5,663	5,645
Food and kindred products .....	20	1,641.4	1,621.4	1,679.6	1,659.1	1,633.1	1,160.6	1,140.4	1,192.7	1,173.2	1,149.1
Meat products .....	201	382.4	380.2	391.0	395.4	-	324.9	322.8	333.0	337.0	-
Meat packing plants .....	2011	140.8	139.7	139.4	141.9	-	117.7	116.7	117.5	119.9	-
Sausages and other prepared meats .....	2013	77.3	77.0	77.0	77.4	-	57.2	57.0	57.1	57.3	-
Poultry dressing plants .....	2016	146.1	145.3	155.4	156.7	-	133.3	132.3	140.9	142.2	-
Dairy products .....	202	163.0	163.2	165.9	166.1	-	97.7	97.9	99.6	99.6	-
Cheese, natural and processed .....	2022	39.9	40.2	40.2	40.7	-	30.6	30.7	30.8	31.2	-
Fluid milk .....	2026	84.8	84.6	85.9	85.9	-	41.8	42.0	42.9	42.8	-
Preserved fruits and vegetables .....	203	236.4	221.2	253.4	234.4	-	194.9	179.5	209.3	190.6	-
Canned specialties .....	2032	25.0	24.9	26.7	25.8	-	18.2	17.9	19.0	18.1	-
Canned fruits and vegetables .....	2033	77.7	68.8	86.2	76.8	-	63.8	54.9	71.3	62.2	-
Frozen fruits and vegetables .....	2037	49.6	44.7	48.8	42.5	-	43.8	38.6	43.4	37.2	-
Grain mill products .....	204	121.4	121.5	123.1	123.2	-	83.7	83.6	85.0	85.3	-
Flour and other grain mill products .....	2041	22.3	22.1	23.1	23.3	-	15.1	15.0	15.8	16.1	-
Prepared feeds, nec .....	2048	42.5	42.3	42.5	42.2	-	26.9	26.7	27.0	26.8	-
Bakery products .....	205	212.7	212.1	214.4	214.7	-	129.8	129.8	131.1	131.3	-
Bread, cake, and related products .....	2051	167.0	166.2	167.5	167.7	-	92.4	92.2	93.5	94.0	-
Cookies and crackers .....	2052	45.7	45.9	46.9	47.0	-	37.4	37.6	37.6	37.3	-
Sugar and confectionery products .....	206	110.8	107.3	111.7	110.9	-	89.0	85.7	89.9	88.8	-
Cane and beet sugar .....	2061-3	29.2	27.2	32.2	31.7	-	23.4	21.9	26.0	25.2	-
Confectionery products .....	2065	62.0	60.4	59.3	59.3	-	52.4	50.5	50.1	50.0	-
Fats and oils .....	207	33.8	34.1	34.6	34.2	-	24.8	24.6	25.1	24.9	-
Beverages .....	208	211.5	211.7	209.7	207.7	-	89.7	90.2	88.2	87.0	-
Malt beverages .....	2082	40.9	41.0	39.2	39.3	-	25.7	25.9	24.7	25.0	-
Bottled and canned soft drinks .....	2086	124.8	124.8	124.5	123.3	-	39.7	39.7	40.1	39.4	-
Misc. food and kindred products .....	209	169.4	170.1	175.8	172.5	-	126.1	126.3	131.5	128.7	-
Tobacco manufactures .....	21	60.3	60.3	59.0	57.9	58.0	46.8	46.9	44.5	42.9	42.2
Cigarettes .....	211	41.7	41.7	38.8	39.6	-	31.8	31.7	28.0	28.6	-
Textile mill products .....	22	716.4	716.4	739.6	741.3	740.3	621.6	621.9	642.7	643.4	641.8
Weaving mills, cotton .....	221	102.3	102.8	110.1	111.0	-	92.1	92.7	99.7	100.4	-
Weaving mills, synthetics .....	222	84.4	84.6	89.2	89.8	-	75.3	75.6	79.6	80.1	-
Weaving and finishing mills, wool .....	223	17.7	17.6	18.4	18.8	-	14.7	14.6	15.0	15.4	-
Narrow fabric mills .....	224	22.7	22.6	23.4	23.5	-	19.6	19.6	20.4	20.4	-
Knitting mills .....	225	209.3	208.7	209.9	210.3	-	183.1	182.3	184.1	184.1	-
Women's hosiery, except socks .....	2251	35.4	35.3	33.9	33.9	-	31.5	31.5	30.2	30.3	-
Hosiery, nec .....	2252	36.6	36.4	36.7	36.7	-	32.9	32.6	32.9	32.8	-
Knit outerwear mills .....	2253	72.3	72.2	72.4	72.8	-	63.9	63.7	64.4	64.8	-
Knit underwear mills .....	2254	23.5	23.5	23.2	23.5	-	19.5	19.5	19.7	19.7	-
Circular knit fabric mills .....	2257	23.7	23.9	25.9	25.8	-	20.6	20.7	22.4	22.2	-
Textile finishing, except wool .....	226	60.4	60.4	61.3	61.1	-	50.6	50.5	51.7	51.4	-
Finishing plants, cotton .....	2261	23.9	23.7	24.1	24.2	-	20.2	20.0	20.5	20.5	-
Finishing plants, synthetics .....	2262	22.5	22.7	22.5	22.4	-	18.3	18.4	18.4	18.3	-
Floor covering mills .....	227	57.2	57.1	60.9	60.5	-	47.3	47.1	49.3	49.0	-
Yarn and thread mills .....	228	106.9	107.2	109.9	110.1	-	95.7	96.4	98.2	98.6	-
Yarn mills, except wool .....	2281	77.1	77.6	80.8	81.1	-	69.9	70.4	73.2	73.6	-
Throwing and winding mills .....	2282	16.5	16.4	15.6	15.5	-	14.6	14.8	13.8	13.7	-
Miscellaneous textile goods .....	229	55.5	55.4	56.5	56.2	-	43.2	43.1	44.7	44.0	-
Apparel and other textile products .....	23	1,106.8	1,108.1	1,133.1	1,134.0	1,125.0	932.8	933.8	952.9	954.3	945.8
Men's and boys' suits and coats .....	231	59.1	59.5	57.2	57.4	-	50.9	51.1	49.3	49.7	-
Men's and boys' furnishings .....	232	305.8	307.5	321.4	322.1	-	264.1	265.9	276.7	277.6	-
Men's and boys' shirts and nightwear .....	2321	85.5	85.1	86.8	86.7	-	73.2	73.1	74.1	73.9	-
Men's and boys' separate trousers .....	2327	55.3	55.4	55.0	55.5	-	48.8	48.6	48.2	48.6	-
Men's and boys' work clothing .....	2328	89.9	91.9	99.3	99.5	-	78.5	80.5	86.6	87.0	-
Women's and misses' outerwear .....	233	351.9	354.6	363.9	364.1	-	293.5	297.1	304.0	304.2	-
Women's and misses' blouses and waists .....	2331	49.8	49.3	49.2	49.2	-	41.4	41.1	41.0	41.0	-
Women's and misses' dresses .....	2335	82.0	84.7	85.0	82.8	-	68.7	71.7	70.9	68.4	-
Women's and misses' suits and coats .....	2337	44.4	42.0	46.7	46.0	-	36.3	34.4	38.1	37.4	-
Women's and misses' outerwear, nec .....	2339	175.7	178.6	183.0	186.1	-	147.1	149.9	154.0	157.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	75.9	74.6	73.7	73.1		63.5	61.8	60.5	60.1	
Women's and children's underwear .....	2341	61.6	60.5	60.4	59.7		52.8	51.5	51.5	51.0	
Brassieres and allied garments .....	2342	14.3	14.1	13.3	13.4		10.7	10.3	9.0	9.1	
Children's outerwear .....	236	60.7	60.9	58.2	58.1		51.4	51.5	48.7	48.5	
Children's dresses and blouses .....	2361	25.7	25.8	24.1	24.1		22.5	22.6	21.2	21.1	
Misc. apparel and accessories .....	238	42.3	41.5	42.0	41.8		35.5	34.4	35.2	34.8	
Misc. fabricated textile products .....	239	192.3	190.6	198.2	199.0		159.1	157.1	164.0	165.0	
Curtains and draperies .....	2391	26.6	26.7	27.5	27.6		21.7	21.6	22.5	22.6	
House furnishings, nec .....	2392	52.9	51.8	56.1	56.3		45.1	44.1	48.1	48.4	
Automotive and apparel trimmings .....	2396	41.5	40.4	40.4	40.7		35.2	34.0	33.9	34.1	
Paper and allied products .....	26	678.8	679.7	679.5	682.5	684.3	515.6	517.2	515.5	518.4	521.9
Paper and pulp mills .....	261,2,6	195.4	196.2	192.2	192.7	-	149.3	149.9	145.4	146.0	-
Paper mills, except building paper .....	262	170.8	171.7	168.2	168.7		129.9	130.5	126.4	127.0	
Paperboard mills .....	263	53.2	53.4	52.2	52.4		40.3	40.5	39.3	39.6	
Misc. converted paper products .....	264	231.3	231.2	234.4	236.1		171.3	171.9	174.0	175.3	
Paper coating and glazing .....	2641	57.9	58.2	58.8	58.8		36.4	37.2	36.9	36.8	
Envelopes .....	2642	26.8	26.8	26.9	26.9		21.0	21.1	21.0	21.0	
Bags, except textile bags .....	2643	52.2	52.6	53.4	53.7		41.4	41.7	42.3	42.5	
Paperboard containers and boxes .....	265	198.9	198.9	200.7	201.3		154.7	154.9	156.8	157.5	
Folding paperboard boxes .....	2651	42.8	42.6	43.4	43.6		34.0	33.9	34.5	34.7	
Corrugated and solid fiber boxes .....	2653	105.9	106.1	105.4	105.6		80.2	80.4	80.1	80.2	
Sanitary food containers .....	2654	22.3	22.3	23.6	23.7		19.1	19.1	20.2	20.4	
Printing and publishing .....	27	1,477.7	1,481.6	1,513.5	1,527.8	1,533.5	831.8	836.8	847.7	856.1	863.1
Newspapers .....	271	462.8	462.5	466.8	469.5	-	172.4	173.3	173.1	174.1	-
Periodicals .....	272	116.6	117.2	123.7	125.6		43.2	43.7	45.7	46.0	
Books .....	273	108.8	111.0	109.6	111.7		58.5	60.9	56.1	58.2	
Book publishing .....	2731	80.5	82.0	81.3	82.7		36.2	37.9	34.1	35.6	
Book printing .....	2732	28.3	29.0	28.3	29.0		22.3	23.0	22.0	22.6	
Miscellaneous publishing .....	274	73.9	74.7	78.6	80.0		39.8	40.4	40.7	41.3	
Commercial printing .....	275	516.9	516.7	535.9	541.3		375.8	375.4	389.3	393.4	
Commercial printing, letterpress .....	2751	164.6	164.7	172.1	173.2		120.2	120.4	122.7	123.5	
Commercial printing, lithographic .....	2752	325.1	324.9	335.4	339.3		233.9	233.6	244.0	246.9	
Manifold business forms .....	276	49.4	49.6	49.0	49.3		34.8	34.8	34.1	34.3	
Blankbooks and bookbinding .....	278	74.1	74.8	74.1	74.2		59.7	60.6	59.1	59.0	
Printing trade services .....	279	52.4	52.6	53.9	54.4		39.3	39.6	40.0	40.3	
Chemicals and allied products .....	28	1,017.1	1,014.5	1,034.2	1,039.6	1,043.4	565.9	563.9	578.0	581.9	585.2
Industrial inorganic chemicals .....	281	135.1	134.5	135.8	136.4	-	69.0	68.6	67.3	67.3	-
Industrial inorganic chemicals, nec .....	2819	89.9	89.6	90.9	91.5		49.7	49.5	48.2	48.2	
Plastics materials and synthetics .....	282	166.0	166.0	167.1	167.7		111.6	111.1	109.5	109.9	
Plastics materials and resins .....	2821	74.9	75.1	77.0	77.3		44.8	44.8	45.4	45.5	
Organic fibers, noncellulosic .....	2824	61.8	61.7	60.7	60.6		44.9	44.5	42.1	42.1	
Drugs .....	283	208.0	207.4	212.8	214.9		95.2	95.1	96.7	98.5	
Pharmaceutical preparations .....	2834	165.9	165.5	169.5	171.4		75.1	75.0	75.7	77.4	
Soap, cleaners, and toilet goods .....	284	146.9	146.6	155.0	156.5		93.2	92.5	98.5	99.8	
Soap and other detergents .....	2841	42.3	42.2	42.1	42.9		26.8	26.8	26.4	27.0	
Polishing, sanitation, and finishing preparations .....	2842,3	39.9	40.1	41.2	41.3		21.4	21.5	22.6	22.9	
Toilet preparations .....	2844	64.7	64.3	71.7	72.3		45.0	44.2	49.5	49.9	
Paints and allied products .....	285	62.6	62.2	62.8	62.6		30.0	30.0	30.8	30.5	
Industrial organic chemicals .....	286	153.1	152.5	152.9	153.3		82.2	82.2	87.8	88.2	
Cyclic crudes and intermediates .....	2865	30.1	29.5	29.7	29.8		19.7	19.6	19.4	19.5	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	123.0	123.0	123.2	123.5		62.5	62.6	68.4	68.7	
Agricultural chemicals .....	287	53.3	53.3	53.2	53.1		32.7	32.7	33.6	33.5	
Miscellaneous chemical products .....	289	92.1	92.0	94.6	95.1		52.0	51.7	53.8	54.2	
Petroleum and coal products .....	29	164.5	160.5	166.6	165.7	164.6	105.1	102.1	109.4	108.7	107.0
Petroleum refining .....	291	126.2	124.2	125.9	126.0	-	77.9	76.8	80.7	80.8	-
Paving and roofing materials .....	295	27.2	25.1	29.2	28.1		21.0	19.0	22.2	21.4	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	796.7	798.3	834.4	840.5	843.8	621.0	621.0	648.9	654.3	658.7
Tires and inner tubes .....	301	87.5	87.8	85.9	86.1	-	64.4	64.1	60.5	60.9	-
Rubber and plastics footwear .....	302	10.7	10.5	11.1	11.2	-	9.0	8.8	9.2	9.2	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	21.7	21.8	22.2	22.3	-	15.4	15.6	16.2	16.3	-
Fabricated rubber products, nec .....	306	103.1	102.9	105.5	106.5	-	79.1	79.0	81.4	82.3	-
Miscellaneous plastics products .....	307	573.7	575.3	609.7	614.4	-	453.1	453.5	481.6	485.6	-
Leather and leather products .....	31	149.8	148.6	154.6	155.4	155.3	123.3	122.2	129.5	129.7	129.7
Leather tanning and finishing .....	311	13.8	13.8	13.4	13.5	-	11.5	11.5	11.1	11.1	-
Footwear, except rubber .....	314	87.3	86.4	90.4	91.0	-	73.4	72.6	77.9	78.0	-
Men's footwear, except athletic .....	3143	38.6	38.3	40.6	40.9	-	30.9	30.6	33.2	33.3	-
Women's footwear, except athletic .....	3144	31.5	31.3	31.3	31.6	-	27.6	27.5	27.7	28.0	-
Luggage .....	316	10.8	10.9	12.0	12.0	-	7.7	7.7	8.8	8.9	-
Handbags and personal leather goods .....	317	19.7	19.1	19.3	19.0	-	16.0	15.5	15.7	15.4	-
<b>Transportation and public utilities .....</b>		<b>5,305</b>	<b>5,320</b>	<b>5,485</b>	<b>5,490</b>	<b>5,495</b>	<b>4,395</b>	<b>4,416</b>	<b>4,555</b>	<b>4,559</b>	<b>4,552</b>
Transportation .....		3,099	3,114	3,249	3,247	3,253	-	-	-	-	-
Railroad transportation .....	40	323.3	314.4	309.5	300.5	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	286.5	278.3	272.5	263.8	-	-	-	-	-	-
Local and interurban passenger transit .....	41	286.2	288.4	295.4	294.8	-	267.6	267.8	273.4	272.6	-
Local and suburban transportation .....	411	99.3	99.4	101.2	101.5	-	91.3	91.3	92.4	92.9	-
Taxis .....	412	35.5	35.8	33.9	34.4	-	-	-	-	-	-
Intercity highway transportation .....	413	31.6	31.2	32.1	32.0	-	28.7	28.4	29.1	29.0	-
School buses .....	415	98.4	99.1	101.7	100.8	-	-	-	-	-	-
Trucking and warehousing .....	42	1,421.4	1,436.4	1,531.5	1,537.1	-	1,237.5	1,255.2	1,336.8	1,341.7	-
Trucking and trucking terminals .....	421,3	1,313.9	1,330.8	1,407.1	1,418.9	-	1,146.3	1,166.1	1,230.6	1,241.5	-
Public warehousing .....	422	107.5	105.6	124.4	118.2	-	91.2	89.1	106.2	100.2	-
Water transportation .....	44	170.6	171.2	175.8	177.2	-	-	-	-	-	-
Local water transportation .....	445	26.1	25.8	26.8	25.7	-	-	-	-	-	-
Water transportation services .....	446	92.2	93.9	94.8	96.7	-	-	-	-	-	-
Transportation by air .....	45	591.4	598.0	613.5	615.5	-	-	-	-	-	-
Air transportation .....	451,2	524.0	529.7	541.6	543.9	-	-	-	-	-	-
Air transportation services .....	458	67.4	68.3	71.9	71.6	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	17.8	17.6	18.0	17.9	-	13.1	12.9	13.0	12.9	-
Transportation services .....	47	286.0	287.9	305.0	304.4	-	-	-	-	-	-
Freight forwarding .....	471	67.0	67.7	73.6	73.5	-	-	-	-	-	-
Communication and public utilities .....		2,206	2,206	2,236	2,243	2,242	-	-	-	-	-
Communication .....	48	1,281.7	1,280.9	1,305.5	1,311.3	-	978.6	980.3	990.5	997.2	-
Telephone communication .....	481	883.5	882.0	898.0	896.7	-	656.6	659.1	663.4	664.6	-
Radio and television broadcasting .....	483	237.9	238.2	235.1	240.8	-	194.6	195.3	193.0	197.3	-
Radio broadcasting .....	4832	112.9	113.0	112.6	112.2	-	-	-	-	-	-
Television broadcasting .....	4833	125.0	125.2	122.5	128.6	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	924.1	925.3	930.6	931.4	-	735.1	734.8	735.5	735.4	-
Electric services .....	491	452.4	453.4	452.5	453.3	-	348.2	348.0	344.1	344.8	-
Gas production and distribution .....	492	167.0	166.7	168.3	166.0	-	132.4	132.1	131.8	131.1	-
Combination utility services .....	493	205.6	205.4	201.8	201.7	-	169.6	169.1	166.2	165.7	-
Sanitary services .....	495	72.4	72.8	81.4	82.0	-	63.4	63.8	70.8	71.4	-
<b>Wholesale trade .....</b>		<b>5,745</b>	<b>5,733</b>	<b>5,862</b>	<b>5,868</b>	<b>5,878</b>	<b>4,603</b>	<b>4,593</b>	<b>4,686</b>	<b>4,690</b>	<b>4,692</b>
Durable goods .....	50	3,384	3,384	3,451	3,461	3,475	2,687	2,687	2,725	2,731	-
Motor vehicles and automotive equipment .....	501	431.3	431.3	434.9	435.2	-	346.2	346.3	348.5	348.6	-
Automobiles and other motor vehicles .....	5012	110.4	111.1	112.9	113.4	-	-	-	-	-	-
Automotive parts and supplies .....	5013	289.1	288.6	290.5	290.2	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Furniture and home furnishings .....	502	135.6	135.0	141.0	142.7		108.8	108.6	114.5	116.0	
Furniture .....	5021	58.5	59.0	60.3	61.0		-	-	-	-	
Home furnishings .....	5023	77.1	76.0	80.7	81.7		-	-	-	-	
Lumber and construction materials .....	503	227.6	225.8	231.1	230.5		187.6	186.0	190.2	189.2	
Lumber, plywood, and millwork .....	5031	101.6	100.6	105.1	104.6		-	-	-	-	
Construction materials, nec .....	5039	126.0	125.2	126.0	125.9		-	-	-	-	
Sporting goods, toys, and hobby goods .....	504	81.2	80.6	81.8	83.0		66.7	66.4	67.4	68.1	
Metals and minerals, except petroleum .....	505	131.4	130.6	136.1	136.4		103.0	102.1	106.5	107.1	
Electrical goods .....	506	488.4	490.4	497.9	500.3		370.6	371.8	379.3	380.3	
Electrical apparatus and equipment .....	5063	269.9	271.4	274.9	276.4		-	-	-	-	
Electrical appliances, TV and radios .....	5064	71.0	71.8	73.9	73.9		-	-	-	-	
Electronic parts and equipment .....	5065	147.5	147.2	149.1	150.0		-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	258.8	259.3	265.3	264.8		208.0	208.7	213.8	214.0	
Hardware .....	5072	88.3	88.5	92.4	91.9		-	-	-	-	
Plumbing and hydronic heating supplies .....	5074	107.2	107.8	109.7	109.9		-	-	-	-	
Machinery, equipment, and supplies .....	508	1,437.4	1,437.6	1,462.9	1,466.5		1,141.6	1,141.6	1,144.9	1,146.1	
Commercial machines and equipment .....	5081	529.7	531.1	539.5	542.2		-	-	-	-	
Construction and mining machinery .....	5082	81.5	81.0	82.4	82.7		-	-	-	-	
Farm machinery and equipment .....	5083	116.1	115.7	121.5	120.5		-	-	-	-	
Industrial machinery and equipment .....	5084	297.5	296.5	298.2	298.4		-	-	-	-	
Industrial supplies .....	5085	128.2	128.9	131.2	132.2		-	-	-	-	
Professional equipment and supplies .....	5086	175.9	175.7	176.4	176.8		-	-	-	-	
Miscellaneous durable goods .....	509	192.4	193.1	199.8	201.4		154.6	155.1	160.3	161.9	
Scrap and waste materials .....	5093	88.4	88.0	92.0	92.6		-	-	-	-	
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,361</b>	<b>2,349</b>	<b>2,411</b>	<b>2,407</b>	<b>2,403</b>	<b>1,916</b>	<b>1,906</b>	<b>1,961</b>	<b>1,959</b>	
Paper and paper products .....	511	189.7	188.4	194.7	194.0	-	154.2	153.3	157.6	156.6	
Drugs, proprietaries, and sundries .....	512	170.9	172.0	180.2	180.9		141.9	142.9	149.5	150.0	
Apparel, piece goods, and notions .....	513	192.6	191.4	194.9	195.6		144.0	143.2	147.0	147.8	
Groceries and related products .....	514	760.0	759.6	772.3	771.8		642.4	642.2	651.9	652.9	
Groceries, general line .....	5141	245.5	246.5	249.2	251.5		-	-	-	-	
Meats and meat products .....	5147	64.5	64.6	63.7	64.8		-	-	-	-	
Fresh fruits and vegetables .....	5148	85.9	86.4	87.4	85.6		-	-	-	-	
Chemicals and allied products .....	516	128.8	128.4	135.2	134.6		93.3	92.9	100.4	100.3	
Petroleum and petroleum products .....	517	196.3	195.8	196.3	197.3		151.6	151.7	153.5	154.2	
Petroleum bulk stations and terminals .....	5171	79.4	79.0	80.1	80.4		-	-	-	-	
Petroleum products, nec .....	5172	116.9	116.8	116.2	116.9		-	-	-	-	
Beer, wine, and distilled beverages .....	518	151.4	152.0	153.8	154.1		124.8	124.9	126.2	126.4	
Beer and ale .....	5181	94.2	94.1	96.4	96.3		-	-	-	-	
Wines and distilled beverages .....	5182	57.2	57.9	57.4	57.8		-	-	-	-	
Miscellaneous nondurable goods .....	519	434.4	428.6	446.9	447.8		351.9	347.1	362.3	363.0	
Farm supplies .....	5191	141.8	137.7	147.6	144.8		-	-	-	-	
<b>Retail trade .....</b>		<b>18,273</b>	<b>18,612</b>	<b>18,463</b>	<b>18,700</b>	<b>19,046</b>	<b>16,301</b>	<b>16,631</b>	<b>16,395</b>	<b>16,621</b>	<b>16,955</b>
Building materials and garden supplies .....	52	702.3	698.9	731.3	729.4		586.2	582.6	607.7	605.5	
Lumber and other building materials .....	521	380.4	375.8	399.3	396.9		322.7	318.2	338.1	335.6	
Hardware stores .....	525	158.4	159.1	162.5	164.0		132.5	133.1	134.8	136.0	
General merchandise stores .....	53	2,536.5	2,658.1	2,478.8	2,599.9	2,725.4	2,393.9	2,509.8	2,314.3	2,431.7	
Department stores .....	531	2,125.8	2,223.1	2,076.3	2,179.8	-	2,026.1	2,118.1	1,955.6	2,056.0	
Variety stores .....	533	257.5	269.0	252.8	258.4		234.0	245.7	229.1	234.3	
Misc. general merchandise stores .....	539	153.2	166.0	149.7	161.7		133.8	146.0	129.6	141.4	
Food stores .....	54	2,941.9	2,977.4	2,980.5	3,015.7	3,052.5	2,717.2	2,753.5	2,741.7	2,772.5	
Grocery stores .....	541	2,570.9	2,584.7	2,624.1	2,646.3	-	2,384.9	2,398.5	2,424.5	2,443.5	
Meat markets and freezer provisioners .....	542	60.7	61.6	59.1	60.3		-	-	-	-	
Dairy products stores .....	545	38.2	41.2	36.0	38.2		-	-	-	-	
Retail bakeries .....	546	166.2	170.0	164.0	167.2		150.9	154.9	148.9	152.0	
Automotive dealers and service stations .....	55	1,959.3	1,959.7	2,002.1	1,997.7	2,002.3	1,643.7	1,645.1	1,678.2	1,672.7	
New and used car dealers .....	551,2	958.3	957.7	980.9	980.3	-	796.8	796.8	814.8	813.4	
Auto and home supply stores .....	553	312.2	310.6	320.8	319.5		253.0	252.0	259.9	258.8	
Gasoline service stations .....	554	601.3	605.3	606.7	605.7		524.1	527.7	528.7	527.2	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,119.1	1,194.4	1,095.6	1,132.8		952.2	1,025.5	926.9	962.3	
Men's and boys' clothing and furnishings .....	561	113.4	122.5	103.8	107.8		95.1	103.7	85.1	89.0	
Women's ready-to-wear stores .....	562	399.9	422.4	391.0	399.3		343.6	364.7	331.0	337.9	
Family clothing stores .....	565	255.0	281.1	245.3	258.7		222.2	247.9	213.2	226.3	
Shoe stores .....	566	207.5	218.1	213.8	218.6		167.3	178.5	176.3	181.2	
Furniture and home furnishings stores .....	57	796.6	813.7	821.4	836.0		666.0	681.6	678.6	692.7	
Furniture and home furnishings stores .....	571	445.6	452.3	462.1	469.5		368.4	374.3	379.7	386.7	
Furniture stores .....	5712	275.1	279.8	289.5	292.9		-	-	-	-	
Household appliance stores .....	572	86.8	87.8	86.8	87.0		74.1	75.3	74.7	74.9	
Radio, television, and music stores .....	573	264.2	273.6	272.5	279.5		223.5	232.0	224.2	231.1	
Radio and television stores .....	5732	195.3	200.1	203.9	209.0		-	-	-	-	
Music stores .....	5733	68.9	73.5	68.6	70.5		-	-	-	-	
Eating and drinking places .....	58	5,875.4	5,884.4	6,038.2	5,992.5	6,008.7	5,349.9	5,357.8	5,497.5	5,454.6	
Miscellaneous retail .....	59	2,341.4	2,425.6	2,315.0	2,396.4		1,991.6	2,074.7	1,949.6	2,029.2	
Drug stores and proprietary stores .....	591	576.9	588.3	597.3	609.2		492.4	503.1	508.9	519.8	
Liquor stores .....	592	127.4	130.1	123.9	124.9		-	-	-	-	
Miscellaneous shopping goods stores .....	594	804.2	857.7	769.0	823.4		683.9	737.8	645.0	699.1	
Sporting goods and bicycle shops .....	5941	136.9	141.2	135.8	141.3		-	-	-	-	
Book stores .....	5942	76.6	80.7	78.1	79.2		-	-	-	-	
Stationery stores .....	5943	75.6	76.8	75.3	76.6		-	-	-	-	
Jewelry stores .....	5944	153.6	164.2	146.6	153.2		-	-	-	-	
Gift, novelty, and souvenir shops .....	5947	145.9	157.1	144.8	151.2		-	-	-	-	
Sewing, needlework, and piece goods .....	5949	64.4	64.7	64.5	66.4		-	-	-	-	
Nonstore retailers .....	596	271.1	273.0	267.3	270.2		246.7	248.6	241.3	244.0	
Mail order houses .....	5961	134.7	135.1	129.2	133.4		-	-	-	-	
Merchandising machine operators .....	5962	79.2	79.5	83.2	83.1		-	-	-	-	
Fuel and ice dealers .....	598	111.9	114.7	114.6	116.9		94.2	96.4	94.6	96.9	
Retail stores, nec .....	599	369.7	381.0	356.7	364.8		302.6	313.5	289.7	297.2	
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,397</b>	<b>6,437</b>	<b>6,636</b>	<b>6,634</b>	<b>6,646</b>	<b>4,727</b>	<b>4,754</b>	<b>4,852</b>	<b>4,848</b>	<b>4,859</b>
Finance .....		3,204	3,224	3,286	3,292	3,297					
Banking .....	60	1,736.0	1,742.1	1,727.9	1,727.8		1,258.1	1,262.3	1,239.6	1,242.7	
Commercial and stock savings banks .....	602	1,559.9	1,564.3	1,554.8	1,553.8		1,126.0	1,128.8	1,111.3	1,113.7	
State banks, Federal Reserve .....	6022	342.5	344.0	344.6	344.3		-	-	-	-	
State banks, not Federal Reserve .....	6023,4	372.4	373.5	375.3	375.0		-	-	-	-	
Mutual savings banks .....	603	84.3	85.1	86.5	86.6		-	-	-	-	
Credit agencies other than banks .....	61	860.5	866.1	896.0	897.3		647.8	652.0	668.1	668.4	
Savings and loan associations .....	612	387.2	389.5	405.1	406.0		295.3	297.0	307.9	308.7	
Federal savings and loan associations .....	6122	214.6	216.0	223.9	224.0		-	-	-	-	
State associations, insured .....	6123	164.7	165.5	173.2	174.0		-	-	-	-	
Personal credit institutions .....	614	229.7	230.9	235.8	237.3		177.6	178.7	181.6	182.7	
Business credit institutions .....	615	51.9	52.1	56.5	57.3		-	-	-	-	
Mortgage bankers and brokers .....	616	166.4	168.4	174.5	172.6		-	-	-	-	
Security, commodity brokers, and services .....	62	409.2	414.6	450.6	453.3						
Security brokers and dealers .....	621	327.0	330.6	359.6	361.4						
Holding and other investment offices .....	67	198.3	201.6	211.3	213.2						
Insurance .....		1,988	1,996	2,064	2,067	2,076					
Insurance carriers .....	63	1,386.1	1,389.5	1,420.7	1,420.9		947.6	949.8	945.1	943.6	
Life insurance .....	631	581.9	580.2	590.6	589.8		365.4	365.3	356.1	354.5	
Medical service and health insurance .....	632	190.6	191.7	193.6	194.3		154.2	155.0	155.4	156.3	
Fire, marine, and casualty insurance .....	633	512.5	515.3	538.1	539.8		350.3	351.1	358.9	359.4	
Title insurance .....	636	60.2	60.8	55.8	54.4		-	-	-	-	
Insurance agents, brokers, and service .....	64	601.8	606.5	643.6	646.4						

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,205	1,217	1,286	1,275	1,273					
Real estate .....	65	1,193.0	1,204.5	1,273.3	1,262.6						
Real estate operators and lessors .....	651	516.8	523.8	523.1	520.3						
Real estate agents and managers .....	653	490.3	497.9	536.7	536.5						
Subdividers and developers .....	655	153.9	149.8	177.0	169.7						
Combined real estate, insurance, etc .....	66	12.3	12.3	12.3	12.2						
<b>Services .....</b>		<b>23,452</b>	<b>23,438</b>	<b>24,504</b>	<b>24,472</b>	<b>24,517</b>	<b>20,580</b>	<b>20,528</b>	<b>21,463</b>	<b>21,432</b>	<b>21,453</b>
Hotels and other lodging places .....	70	1,361.0	1,352.0	1,448.3	1,414.9						
Hotels, motels, and tourist courts .....	701	1,326.6	1,318.7	1,414.2	1,384.0		1,183.3	1,169.5	1,263.5	1,233.5	
Personal services .....	72	1,108.6	1,111.6	1,162.7	1,168.2						
Laundry, cleaning, and garment services .....	721	393.1	394.7	414.9	417.8		350.4	351.8	369.0	371.7	
Photographic studios, portrait .....	722	65.8	64.5	66.6	68.7						
Beauty shops .....	723	350.6	351.8	353.0	352.8		317.8	318.5	316.9	317.5	
Funeral service and crematories .....	726	77.4	78.5	77.8	77.6						
Business services .....	73	4,915.8	4,938.6	5,245.7	5,233.9	5,252.9	4,224.6	4,239.5	4,510.0	4,500.8	
Advertising .....	731	201.6	200.6	202.4	202.5	-	150.0	148.7	151.4	152.1	
Advertising agencies .....	7311	149.2	149.2	149.7	149.9						
Credit reporting and collection .....	732	100.8	101.7	105.4	104.3						
Mailing, reproduction, and stenographic .....	733	202.6	202.0	216.4	218.6						
Services to buildings .....	734	684.9	665.6	692.0	684.7		620.6	621.2	626.3	620.2	
Personnel supply services .....	736	1,085.7	1,097.4	1,282.5	1,269.3						
Employment agencies .....	7361	169.5	168.7	197.5	197.9						
Temporary help supply services .....	7362	862.0	874.8	1,021.0	1,006.2						
Computer and data processing services .....	737	601.6	608.7	655.6	660.5		476.1	462.7	514.8	518.3	
Computer programming and software .....	7372	220.7	223.0	245.3	248.0						
Data processing services .....	7374	282.1	286.7	307.4	309.0						
Miscellaneous business services .....	739	2,029.6	2,033.7	2,082.2	2,084.9						
Research development laboratories, nec .....	7391	195.2	195.5	195.4	196.1						
Management and public relations .....	7392	561.9	558.7	575.5	579.7						
Detective and protective services .....	7393	454.0	457.9	454.9	453.7						
Equipment rental and leasing .....	7394	209.1	208.0	221.4	221.1						
Photofinishing laboratories .....	7395	82.6	82.9	84.4	84.8						
Auto repair, services, and garages .....	75	772.6	772.3	802.2	805.6		647.8	646.9	667.9	670.7	
Automotive rentals, without drivers .....	751	168.1	167.1	174.6	174.9						
Automotive repair shops .....	753	459.4	457.4	478.4	480.6		382.8	381.2	396.4	397.6	
Miscellaneous repair services .....	76	319.3	319.9	326.1	325.8		264.9	246.1	271.1	271.4	
Electrical repair shops .....	762	105.5	107.8	104.3	104.0						
Motion pictures .....	78	228.1	230.9	231.5	230.9		190.4	193.0	194.9	195.1	
Motion picture production and services .....	781	118.3	118.0	122.1	122.7		95.1	94.4	100.2	101.0	
Motion picture theaters .....	783	97.4	100.5	95.8	94.3						
Amusement and recreation services .....	79	874.0	859.8	927.9	873.3		767.6	750.4	805.6	755.5	
Health services .....	80	6,653.0	6,677.3	6,986.5	7,018.3	7,051.4	5,914.7	5,938.3	6,199.3	6,227.8	
Offices of physicians .....	801	1,014.8	1,021.8	1,102.2	1,110.8	-	838.8	845.2	903.0	910.1	
Offices of dentists .....	802	467.4	469.5	484.3	487.1		413.0	415.2	427.3	430.0	
Nursing and personal care facilities .....	805	1,273.1	1,276.8	1,304.8	1,308.0		1,149.4	1,153.2	1,177.8	1,180.8	
Skilled nursing care facilities .....	8051	850.8	853.4	871.5	873.3						
Nursing and personal care, nec .....	8059	422.3	423.4	433.3	434.7						
Hospitals .....	806	3,067.8	3,072.5	3,198.9	3,213.1		2,795.4	2,799.5	2,916.6	2,930.1	
General medical and surgical hospitals .....	8062	2,871.6	2,875.9	2,993.6	3,007.1						
Psychiatric hospitals .....	8063	65.7	65.7	68.6	69.0						
Specialty hospitals, excluding psychiatric .....	8069	130.5	130.9	136.7	137.0						
Medical and dental laboratories .....	807	133.7	134.6	144.5	145.4						
Outpatient care facilities .....	808	251.3	253.3	274.3	275.1						

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	764.6	767.2	798.2	800.8		643.4	646.7	669.4	672.5	
Educational services .....	82	1,549.2	1,517.8	1,516.7	1,541.8						
Elementary and secondary schools .....	821	374.2	373.0	370.1	374.2						
Colleges and universities .....	822	1,021.2	992.8	991.9	1,011.2						
Correspondence and vocational schools .....	824	73.0	72.4	71.7	72.8						
Social services .....	83	1,500.7	1,506.4	1,569.6	1,584.9						
Individual and family services .....	832	299.9	302.3	318.6	323.6						
Job training and related services .....	833	255.7	256.8	261.8	262.6						
Residential care .....	836	324.6	327.2	340.0	342.1						
Museums, botanical and zoological gardens .....	84	47.0	47.0	53.0	51.3						
Membership organizations .....	86	1,523.2	1,526.9	1,532.1	1,529.6						
Business associations .....	861	90.8	90.4	89.9	90.4						
Labor organizations .....	863	133.4	136.3	133.1	129.7						
Civic and social associations .....	864	346.4	345.5	348.4	350.1						
Miscellaneous services .....	89	1,265.7	1,265.9	1,318.7	1,323.4		1,032.0	1,031.9	1,070.2	1,073.7	
Engineering and architectural services .....	891	681.4	680.2	710.9	712.5		575.2	574.4	599.8	601.2	
Noncommercial research organizations .....	892	127.8	128.0	130.6	131.4		-	-	-	-	
Accounting, auditing, and bookkeeping .....	893	430.8	432.0	450.4	451.6		335.2	336.0	345.6	346.2	
<b>Government .....</b>		<b>17,234</b>	<b>17,186</b>	<b>17,395</b>	<b>17,552</b>	<b>17,545</b>					
<b>Federal Government<sup>4</sup> .....</b>		<b>2,879</b>	<b>2,895</b>	<b>2,944</b>	<b>2,954</b>	<b>2,970</b>					
Executive, by agency <sup>4</sup> .....		2,824.3	2,839.9	2,886.1							
Department of Defense .....		971.3	968.6	990.8							
Postal Service <sup>5</sup> .....		796.8	818.0	803.2							
Other executive agencies .....		1,056.2	1,053.3	1,092.1							
Legislative .....		36.3	36.4	37.9							
Judicial .....		18.7	18.8	20.0							
Federal government, by industry:											
Manufacturing activities .....		122.8	123.5	126.8	126.9						
Shipbuilding and repairing .....	3731	73.9	74.0	78.5	78.4						
Transportation and public utilities, except Postal Service .....		38.7	38.3	40.8	40.9						
Services .....		405.0	405.2	415.3	415.7						
Hospitals .....	806	244.2	244.7	252.3	253.3						
State government .....		4,030	4,004	4,068	4,098	4,089					
Hospitals .....	806	443.6	444.3	451.6	452.9	-					
Education .....	82	1,709.2	1,682.6	1,702.0	1,733.3						
General administration, including executive, legislative, and judicial functions .....		1,317.7	1,316.3	1,345.7	1,342.4						
Local government .....		10,325	10,287	10,383	10,500	10,486					
Transportation and public utilities .....		488.5	488.6	494.9	494.6	-					
Hospitals .....	806	611.2	611.4	629.9	632.2						
Education .....	82	5,902.4	5,887.8	5,901.5	6,008.7						
General administration, including executive, legislative, and judicial functions .....		3,007.0	2,983.5	3,031.7	3,038.8						

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

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

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

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

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

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

- Data not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Sept. 1986	Oct. 1986	Aug. 1987	Sept. 1987	Oct. 1987
<b>Total</b> .....	45,948	46,457	46,677	47,494	48,164
<b>Total private</b> .....	37,606	37,738	38,800	38,954	39,184
<b>Goods-producing</b> .....	6,881	6,869	6,971	7,016	7,036
<b>Mining</b> .....	100	99	98	98	98
<b>Construction</b> .....	519	519	548	546	546
<b>Manufacturing</b> .....	6,262	6,251	6,325	6,372	6,392
<b>Durable goods</b> .....	2,991	2,991	3,000	3,028	3,046
Lumber and wood products .....	114	114	121	122	121
Furniture and fixtures .....	154	155	160	162	165
Stone, clay, and glass products .....	115	113	115	115	115
Primary metal industries .....	100	99	102	103	103
Fabricated metal products .....	322	322	323	327	329
Machinery, except electrical .....	440	440	446	449	453
Electrical and electronic equipment .....	888	888	872	879	884
Transportation equipment .....	385	385	387	394	394
Instruments and related products .....	303	302	300	302	304
Miscellaneous manufacturing .....	170	172	174	176	181
<b>Nondurable goods</b> .....	3,271	3,260	3,325	3,344	3,344
Food and kindred products .....	551	532	559	559	542
Tobacco manufactures .....	22	22	17	19	20
Textile mill products .....	348	348	355	357	357
Apparel and other textile products .....	687	691	683	696	692
Paper and allied products .....	165	165	168	167	167
Printing and publishing .....	622	626	645	646	650
Chemicals and allied products .....	289	287	300	298	299
Petroleum and coal products .....	25	25	24	24	24
Rubber and misc. plastics products .....	273	276	282	285	291
Leather and leather products .....	88	88	92	92	93
<b>Service-producing</b> .....	39,067	39,588	39,706	40,478	41,128
<b>Transportation and public utilities</b> .....	1,495	1,497	1,521	1,553	1,563
<b>Wholesale trade</b> .....	1,680	1,690	1,719	1,723	1,741
<b>Retail trade</b> .....	9,507	9,540	9,731	9,769	9,621
<b>Finance, insurance, and real estate</b> .....	3,957	3,967	4,165	4,131	4,136
<b>Services</b> .....	14,086	14,175	14,691	14,759	14,887
<b>Government</b> .....	8,342	8,719	7,879	8,543	8,980
Federal .....	1,026	1,023	1,058	1,049	1,049
State .....	1,814	1,907	1,790	1,870	1,967
Local .....	5,502	5,789	5,031	5,624	5,964

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1986 forward are subject to revision.





**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1986			1987									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>Total</b> .....	46,111	46,229	46,358	46,517	46,654	46,766	46,937	46,999	47,142	47,372	47,461	47,509	47,811
<b>Total private</b> .....	37,547	37,653	37,767	37,909	38,057	38,133	38,271	38,337	38,445	38,649	38,754	38,783	38,992
<b>Goods-producing</b> .....	6,813	6,826	6,842	6,838	6,843	6,846	6,863	6,869	6,876	6,923	6,915	6,936	6,976
<b>Mining</b> .....	100	99	98	97	97	96	97	97	98	98	98	99	99
<b>Construction</b> .....	513	516	519	522	524	526	530	533	534	536	536	537	540
<b>Manufacturing</b> .....	6,200	6,211	6,225	6,219	6,222	6,224	6,236	6,239	6,244	6,289	6,281	6,300	6,337
<b>Durable goods</b> .....	2,981	2,983	2,985	2,979	2,983	2,978	2,980	2,980	2,983	2,990	3,005	3,018	3,036
Lumber and wood products .....	113	113	115	115	117	117	117	118	118	119	118	119	120
Furniture and fixtures .....	155	155	155	156	156	157	157	159	160	163	162	163	165
Stone, clay, and glass products .....	112	112	113	114	113	113	114	114	114	113	114	113	114
Primary metal industries .....	100	100	99	99	100	100	100	99	100	100	102	103	103
Fabricated metal products .....	320	321	321	320	320	320	322	322	323	323	324	325	327
Machinery, except electrical .....	443	442	441	440	441	441	444	444	444	446	450	453	455
Electrical and electronic equipment .....	886	885	884	880	876	870	866	866	864	869	872	876	881
Transportation equipment .....	384	387	389	388	392	392	391	390	390	385	391	392	393
Instruments and related products .....	302	301	301	300	300	299	299	299	299	301	300	302	304
Miscellaneous manufacturing .....	166	167	167	167	168	169	168	169	171	171	172	172	174
<b>Nondurable goods</b> .....	3,219	3,228	3,240	3,240	3,239	3,246	3,256	3,259	3,261	3,299	3,276	3,282	3,301
Food and kindred products .....	508	513	514	514	514	517	518	515	515	521	513	513	518
Tobacco manufactures .....	19	20	19	19	19	19	18	19	18	17	17	17	17
Textile mill products .....	345	347	349	349	350	352	351	351	352	355	354	353	354
Apparel and other textile products .....	883	881	889	883	878	878	880	883	883	902	884	890	894
Paper and allied products .....	164	165	165	165	165	165	165	165	165	165	165	166	165
Printing and publishing .....	626	628	629	632	634	636	640	641	643	644	647	647	650
Chemicals and allied products .....	288	288	287	289	290	290	291	292	292	295	298	297	299
Petroleum and coal products .....	25	25	25	24	24	24	24	24	24	24	24	24	24
Rubber and misc. plastics products .....	275	275	276	278	278	276	261	280	280	282	283	284	288
Leather and leather products .....	86	86	87	87	87	87	88	89	89	94	91	91	92
<b>Service-producing</b> .....	39,298	39,403	39,516	39,679	39,811	39,920	40,074	40,130	40,266	40,449	40,546	40,573	40,835
<b>Transportation and public utilities</b> .....	1,487	1,496	1,501	1,507	1,510	1,517	1,520	1,524	1,531	1,531	1,539	1,544	1,554
<b>Wholesale trade</b> .....	1,673	1,673	1,675	1,682	1,691	1,695	1,695	1,693	1,703	1,712	1,721	1,718	1,724
<b>Retail trade</b> .....	9,484	9,501	9,504	9,547	9,607	9,603	9,636	9,629	9,642	9,679	9,712	9,720	9,762
<b>Finance, insurance, and real estate</b> .....	3,978	3,996	4,016	4,036	4,053	4,064	4,087	4,100	4,109	4,126	4,132	4,135	4,148
<b>Services</b> .....	14,112	14,161	14,229	14,299	14,353	14,408	14,470	14,522	14,584	14,678	14,735	14,730	14,828
<b>Government</b> .....	8,564	8,576	8,591	8,608	8,597	8,633	8,666	8,662	8,697	8,723	8,707	8,726	8,819
Federal .....	1,032	1,033	1,035	1,037	1,038	1,041	1,043	1,045	1,044	1,044	1,048	1,056	1,057
State .....	1,861	1,865	1,869	1,878	1,871	1,883	1,890	1,897	1,896	1,913	1,916	1,908	1,921
Local .....	5,671	5,678	5,687	5,693	5,688	5,709	5,733	5,720	5,757	5,766	5,743	5,762	5,841

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Total private</b> .....	67,865	67,939	68,149	68,263	68,419	68,488	88,598	68,843	68,951	69,028	69,351	69,528	69,787
<b>Goods-producing</b> .....	17,283	17,331	17,379	17,380	17,375	17,360	17,377	17,441	17,476	17,498	17,620	17,708	17,808
<b>Mining</b> .....	510	504	508	511	518	525	528	534	539	545	551	548	549
<b>Construction</b> .....	3,867	3,943	3,955	3,944	3,918	3,889	3,891	3,887	3,899	3,881	3,940	3,955	4,008
<b>Manufacturing</b> .....	12,906	12,884	12,916	12,925	12,939	12,946	12,958	13,020	13,038	13,072	13,129	13,205	13,251
<b>Durable goods</b> .....	7,393	7,370	7,398	7,399	7,406	7,409	7,421	7,425	7,475	7,494	7,530	7,573	7,602
Lumber and wood products .....	611	611	614	615	617	618	615	619	615	618	618	627	631
Furniture and fixtures .....	398	400	400	402	403	407	408	416	415	416	420	421	423
Stone, clay, and glass products .....	451	452	454	453	453	452	451	449	450	451	453	457	459
Primary metal industries .....	547	540	547	553	559	557	561	565	569	578	582	586	587
Blast furnaces and basic steel products .....	193	188	194	199	205	205	207	209	211	214	217	219	218
Fabricated metal products .....	1,052	1,051	1,051	1,051	1,053	1,050	1,054	1,055	1,057	1,061	1,067	1,075	1,080
Machinery, except electrical .....	1,187	1,183	1,190	1,190	1,198	1,203	1,210	1,212	1,222	1,230	1,238	1,244	1,251
Electrical and electronic equipment .....	1,234	1,226	1,223	1,218	1,216	1,215	1,212	1,221	1,226	1,226	1,238	1,244	1,257
Transportation equipment .....	1,267	1,265	1,276	1,273	1,265	1,265	1,265	1,241	1,275	1,265	1,262	1,261	1,256
Motor vehicles and equipment .....	658	659	668	663	657	655	655	629	664	652	653	650	648
Instruments and related products .....	379	377	377	376	376	375	376	378	377	379	381	384	384
Miscellaneous manufacturing .....	267	265	266	268	266	267	269	269	269	270	271	274	274
<b>Nondurable goods</b> .....	5,513	5,514	5,518	5,526	5,533	5,537	5,537	5,595	5,563	5,578	5,599	5,632	5,649
Food and kindred products .....	1,149	1,147	1,150	1,154	1,158	1,153	1,150	1,159	1,146	1,144	1,150	1,158	1,157
Tobacco manufactures .....	44	44	44	44	43	44	42	43	42	41	40	41	40
Textile mill products .....	621	624	627	630	628	631	633	640	636	638	639	641	641
Apparel and other textile products .....	937	931	925	926	929	927	930	950	930	938	943	949	948
Paper and allied products .....	517	515	516	515	514	513	513	515	514	517	515	517	522
Printing and publishing .....	830	833	833	832	832	836	839	841	845	846	849	853	856
Chemicals and allied products .....	566	568	569	570	569	572	568	576	579	579	580	584	587
Petroleum and coal products .....	105	106	106	106	106	107	108	107	108	108	109	109	110
Rubber and misc. plastics products .....	622	623	625	626	629	629	629	633	636	639	647	653	659
Leather and leather products .....	122	123	123	123	125	125	125	131	127	128	127	127	129
<b>Service-producing</b> .....	50,382	50,608	50,770	50,883	51,044	51,128	51,221	51,402	51,475	51,530	51,731	51,820	51,979
<b>Transportation and public utilities</b> .....	4,380	4,389	4,401	4,419	4,428	4,429	4,439	4,449	4,465	4,497	4,514	4,532	4,511
<b>Wholesale trade</b> .....	4,563	4,600	4,611	4,617	4,622	4,623	4,632	4,641	4,642	4,644	4,653	4,671	4,683
<b>Retail trade</b> .....	16,030	16,097	16,141	16,132	16,189	16,193	16,195	16,246	16,242	16,257	16,346	16,343	16,350
<b>Finance, insurance, and real estate</b> .....	4,767	4,786	4,806	4,823	4,840	4,844	4,851	4,853	4,861	4,861	4,862	4,863	4,874
<b>Services</b> .....	20,622	20,736	20,611	20,692	20,965	21,039	21,104	21,213	21,265	21,271	21,356	21,411	21,561

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

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA  
INDEXES OF DIFFUSION  
SEASONALLY ADJUSTED**

**B-7. Indexes of diffusion: Percent of industries in which employment<sup>1</sup> increased, seasonally adjusted**

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1985.....	55.9	47.0	52.4	47.3	53.2	46.8	53.8	53.8	47.8	53.2	54.3	57.3
	1986.....	53.2	48.1	48.1	53.5	52.4	46.8	52.4	56.2	55.1	53.2	59.7	59.7
	1987.....	53.5	56.8	58.6	58.4	58.6	55.7	68.6	54.6	65.4	65.4	<sup>p</sup> 70.3	<sup>p</sup> 62.4
Over 3-month span	1985.....	51.1	48.4	42.4	46.5	44.3	49.7	47.0	48.6	45.9	47.6	55.1	56.5
	1986.....	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	60.3
	1987.....	58.6	59.5	61.1	61.6	61.4	67.3	66.2	75.1	69.7	<sup>p</sup> 78.4	<sup>p</sup> 75.4	
Over 6-month span	1985.....	46.5	46.5	43.2	44.3	44.3	45.1	43.0	44.3	49.2	49.2	47.3	45.9
	1986.....	47.6	47.6	43.0	43.2	45.4	48.4	47.3	53.0	59.2	58.9	57.8	58.9
	1987.....	61.9	62.7	58.9	67.3	67.6	71.1	76.2	<sup>p</sup> 80.3	<sup>p</sup> 80.3			
Over 12-month span	1985.....	44.6	44.1	43.8	40.8	41.6	41.6	42.2	42.4	43.8	44.3	44.1	42.4
	1986.....	43.2	44.1	46.2	45.7	47.8	49.5	49.5	51.6	54.9	52.2	55.1	56.5
	1987.....	62.2	63.5	67.3	68.9	<sup>p</sup> 72.4	<sup>p</sup> 73.0						

<sup>1</sup> Based on the number of employees, seasonally adjusted for 1, 3, and 6 month spans, on the payrolls of 185 private nonagricultural industries. Data for the 12-month span are unadjusted.

<sup>p</sup> = preliminary.

NOTE: Figures are the percent of industries with employment

rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Alabama</b> .....	1,473.0	1,503.3	1,503.2	11.9	11.7	11.6	76.3	78.3	76.4
Birmingham .....	384.6	395.9	395.0	6.1	5.9	5.9	23.9	25.7	25.6
Huntsville .....	118.8	123.1	123.3	.1	.1	.1	5.0	5.3	5.3
Mobile .....	159.0	158.8	159.0	.4	.4	.4	10.0	9.0	8.9
Montgomery .....	122.8	123.7	124.1	.1	.1	.1	9.6	9.8	9.8
Tuscaloosa .....	57.9	59.4	59.7	2.7	2.5	2.5	2.8	3.4	3.3
<b>Alaska</b> .....	214.7	211.8	206.0	8.4	8.3	8.1	12.6	12.6	10.4
<b>Arizona</b> .....	1,374.9	1,387.3	1,394.8	10.9	11.2	11.3	112.4	101.6	99.7
Phoenix .....	903.4	914.9	918.6	.6	.6	.6	76.9	68.1	66.4
Tucson .....	244.7	245.1	247.9	1.8	1.7	1.7	22.1	20.5	20.5
<b>Arkansas</b> .....	824.5	856.3	853.3	4.1	4.0	4.0	35.8	36.7	35.9
Fayetteville-Springdale .....	45.4	48.3	48.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	2.0	2.0
Fort Smith .....	73.4	75.1	75.1	.9	1.0	1.0	3.0	2.8	2.8
Little Rock-North Little Rock .....	226.3	231.9	231.9	.4	.4	.4	11.3	12.2	11.8
Pine Bluff .....	33.1	32.4	32.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	1.5	1.5
<b>California</b> .....	11,478.9	11,824.7	11,887.9	40.5	39.7	39.8	543.7	589.4	582.1
Anaheim-Santa Ana .....	1,068.3	1,106.8	1,115.2	2.1	1.9	1.8	55.0	58.6	58.4
Bakersfield .....	158.1	161.5	162.9	12.8	12.6	12.8	9.7	10.7	10.4
Fresno .....	200.9	206.0	206.4	.7	.8	.8	12.5	11.8	11.6
Los Angeles-Long Beach .....	3,978.5	4,064.8	4,081.7	10.6	10.3	10.3	131.7	139.2	138.9
Modesto .....	100.3	105.7	106.8	.1	.1	.1	8.5	7.1	7.1
Oakland .....	803.4	829.3	832.7	2.5	2.5	2.5	47.6	50.9	50.2
Oxnard-Ventura .....	198.0	204.7	205.4	2.9	2.5	2.5	11.1	12.5	12.4
Riverside-San Bernardino .....	579.2	611.9	618.6	1.2	1.3	1.3	45.3	53.4	52.2
Sacramento .....	530.9	555.4	557.7	.7	.8	.8	32.5	35.9	35.2
Salinas-Seaside-Monterey .....	105.1	107.3	106.8	.5	.5	.5	4.5	4.7	4.7
San Diego .....	841.2	869.4	875.6	.8	.8	.8	54.5	58.9	58.6
San Francisco .....	932.9	947.3	953.0	1.1	1.0	1.0	35.3	36.6	36.4
San Jose .....	772.5	788.3	788.7	.2	.2	.2	31.4	33.3	32.5
Santa Barbara-Santa Maria-Lompoc .....	145.2	146.4	147.3	1.3	1.4	1.4	6.2	6.5	6.5
Santa Rosa-Petaluma .....	120.7	125.6	125.6	.6	.6	.6	8.5	9.2	9.0
Stockton .....	136.2	142.7	141.3	.1	.1	.1	8.4	9.6	9.4
Vallejo-Fairfield-Napa .....	123.0	130.6	130.5	.3	.3	.3	7.8	9.5	9.3
<b>Colorado</b> .....	1,398.8	1,399.4	1,405.6	25.1	23.7	23.8	75.2	71.9	70.1
Boulder-Longmont .....	104.8	106.8	106.6	.2	.3	.3	4.1	3.8	3.8
Denver .....	804.5	805.0	806.9	16.5	15.6	15.6	41.6	40.4	40.1
<b>Connecticut</b> .....	1,635.4	1,663.2	1,673.6	1.7	1.6	1.6	75.6	77.7	77.0
Bridgeport-Milford .....	195.9	201.3	203.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.4	9.3	9.3
Hartford .....	470.1	483.9	486.5	.3	.4	.4	20.0	21.3	21.3
New Britain .....	66.0	67.1	67.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.7	4.6
New Haven-Meriden .....	249.8	254.6	256.6	.3	.3	.3	13.1	14.1	14.0
Stamford .....	125.1	127.0	127.8	.6	.6	.6	5.4	5.4	5.3
Waterbury .....	86.4	87.5	88.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.9	4.8
<b>Delaware</b> .....	311.0	320.9	322.1	.1	.1	.1	19.2	20.4	20.1
Wilmington .....	270.1	277.6	278.9	.2	.2	.2	18.5	18.9	18.8
<b>District of Columbia</b> .....	645.1	648.8	652.3	.1	.1	.1	14.3	15.3	15.3
Washington MSA .....	2,030.2	2,061.7	2,073.2	.9	.9	.9	125.7	128.9	125.3
<b>Florida</b> .....	4,689.2	4,843.4	4,897.6	9.8	9.9	9.9	342.7	346.4	346.9
Daytona Beach .....	107.4	110.7	111.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.2	8.1	8.3
Fort Lauderdale-Hollywood-Pompano Beach .....	446.5	458.8	464.7	.4	.4	.4	36.4	36.6	36.8
Fort Myers-Cape Coral .....	104.3	112.2	114.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.6	12.9	13.1
Gainesville .....	92.1	95.8	96.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.5	4.4
Jacksonville .....	390.9	395.0	398.0	.5	.5	.4	27.6	28.1	27.8
Lakeland-Winter Haven .....	137.8	140.9	142.9	4.7	4.8	4.8	8.3	9.4	9.5
Melbourne-Titusville-Palm Bay .....	136.9	142.6	143.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.0	8.3	8.2
Miami-Hialeah .....	805.8	815.2	817.0	.9	.8	.9	39.5	38.7	38.5
Orlando .....	458.0	479.9	483.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.8	34.6	35.0
Pensacola .....	122.0	124.8	124.9	.3	.3	.3	10.6	10.7	10.5
Sarasota .....	98.2	101.7	102.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.0	9.9	10.0
Tallahassee .....	105.8	109.0	109.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	6.2	6.1
Tampa-St. Petersburg-Clearwater .....	774.2	789.6	795.4	.7	.7	.7	63.0	64.5	65.0
West Palm Beach-Boca Raton-Delray Beach .....	314.1	324.5	332.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	30.0	31.5	31.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Alabama</b> .....	356.2	364.3	363.8	71.0	71.8	71.5	329.1	333.2	336.2
Birmingham .....	53.2	53.2	53.3	27.5	28.3	28.2	97.8	100.8	101.6
Huntsville .....	30.8	31.4	31.4	2.6	2.7	2.6	22.6	23.6	23.8
Mobile .....	26.7	26.2	26.3	9.1	9.0	9.0	44.2	44.1	44.6
Montgomery .....	17.7	17.5	17.6	4.7	4.8	4.8	28.1	28.3	28.3
Tuscaloosa .....	9.1	9.3	9.4	2.0	2.2	2.2	12.0	12.4	12.5
<b>Alaska</b> .....	8.4	12.2	11.2	17.7	17.7	18.9	43.3	41.6	41.0
<b>Arizona</b> .....	186.1	188.4	186.3	68.8	71.3	71.6	334.4	334.9	339.2
Phoenix .....	133.5	135.2	135.4	45.9	48.5	48.7	228.4	228.5	230.9
Tucson .....	31.1	30.3	30.2	9.8	9.9	10.0	55.2	55.2	56.2
<b>Arkansas</b> .....	213.0	224.4	223.6	49.4	52.5	51.8	186.6	195.6	194.8
Fayetteville-Springdale .....	10.0	11.5	11.4	3.9	4.4	4.4	11.0	11.2	11.2
Fort Smith .....	25.0	26.7	26.7	3.7	3.7	3.7	15.8	15.0	15.1
Little Rock-North Little Rock .....	31.7	32.7	32.7	14.7	15.2	15.1	55.5	56.3	56.7
Pine Bluff .....	5.9	6.6	6.6	2.8	2.8	2.8	6.5	6.3	6.2
<b>California</b> .....	2,069.4	2,099.9	2,099.0	583.5	592.4	593.2	2,791.1	2,874.7	2,915.5
Anaheim-Santa Ana .....	244.7	248.6	249.8	34.4	35.2	35.7	270.5	285.9	290.7
Bakersfield .....	10.5	10.5	10.5	8.2	8.3	8.3	41.4	40.7	41.8
Fresno .....	21.8	22.7	21.7	10.8	10.8	11.0	51.5	53.9	54.5
Los Angeles-Long Beach .....	891.6	901.6	904.2	203.8	205.4	208.3	949.3	968.6	981.3
Modesto .....	21.1	23.3	23.2	4.3	4.3	4.3	26.0	26.9	27.6
Oakland .....	102.2	103.8	104.0	58.1	56.0	55.9	203.5	208.1	211.9
Oxnard-Ventura .....	29.6	30.7	30.3	9.7	10.4	10.3	50.0	51.0	51.8
Riverside-San Bernardino .....	75.9	80.7	81.2	31.3	32.2	32.4	144.9	152.5	156.1
Sacramento .....	38.2	40.4	40.0	24.3	25.1	25.0	131.5	138.4	140.0
Salinas-Seaside-Monterey .....	9.9	9.8	9.6	4.9	5.1	5.1	27.9	28.1	28.2
San Diego .....	121.4	120.3	120.9	32.3	33.2	33.4	204.1	210.5	214.3
San Francisco .....	78.1	77.9	78.7	80.6	79.3	79.3	220.3	223.6	226.5
San Jose .....	281.4	262.9	262.3	21.3	21.5	21.8	156.0	157.1	159.7
Santa Barbara-Santa Maria-Lompoc .....	23.5	22.2	21.9	5.4	5.1	5.1	34.6	35.6	36.1
Santa Rosa-Petaluma .....	18.0	18.7	18.3	5.6	6.0	6.0	31.9	32.7	33.5
Stockton .....	21.0	22.7	22.4	8.6	8.7	8.5	32.3	33.9	33.2
Vallejo-Fairfield-Napa .....	12.3	12.8	12.8	4.5	4.5	4.5	30.2	32.0	32.1
<b>Colorado</b> .....	184.5	184.4	185.4	86.4	89.7	90.1	348.2	348.8	350.9
Boulder-Longmont .....	28.3	28.5	28.5	2.3	2.2	2.2	23.4	23.5	23.5
Denver .....	95.9	93.9	94.0	62.2	65.5	65.7	204.8	204.3	206.2
<b>Connecticut</b> .....	395.2	389.2	389.7	70.8	73.7	73.9	369.4	379.5	386.0
Bridgeport-Milford .....	60.5	60.8	60.6	7.8	7.7	7.8	45.9	46.7	48.5
Hartford .....	93.7	95.3	95.3	17.2	17.9	17.9	99.3	102.4	104.6
New Britain .....	21.6	20.4	20.5	3.3	3.3	3.4	13.4	13.8	13.9
New Haven-Meriden .....	47.9	46.4	46.8	18.1	18.3	18.5	58.9	60.2	61.2
Stamford .....	25.2	23.8	24.0	4.9	5.1	5.1	30.0	30.4	30.9
Waterbury .....	24.8	23.3	23.4	3.2	3.1	3.2	17.5	17.9	18.3
<b>Delaware</b> .....	69.8	69.5	69.8	12.8	13.3	13.3	70.0	72.8	73.4
Wilmington .....	59.1	59.0	59.4	13.8	14.7	14.6	58.1	59.2	60.3
<b>District of Columbia</b> .....	15.6	15.9	15.9	24.4	24.7	24.7	64.7	65.1	66.1
Washington MSA .....	86.3	85.8	86.3	96.3	100.5	101.0	417.1	419.2	426.8
<b>Florida</b> .....	521.4	527.8	532.1	247.8	252.8	254.3	1,273.7	1,320.5	1,347.5
Daytona Beach .....	12.2	13.1	13.2	3.3	3.4	3.4	30.6	32.1	32.3
Fort Lauderdale-Hollywood-Pompano Beach .....	43.6	45.2	45.2	21.2	22.2	22.4	132.4	135.8	138.1
Fort Myers-Cape Coral .....	5.3	5.8	5.8	4.8	5.2	5.3	30.8	33.1	34.8
Gainesville .....	5.4	5.8	5.8	1.7	1.7	1.8	20.9	21.2	21.3
Jacksonville .....	37.2	38.8	39.1	27.1	28.1	28.3	102.7	106.4	107.9
Lakeland-Winter Haven .....	22.3	21.2	21.9	6.1	6.3	6.4	38.3	38.2	38.9
Melbourne-Titusville-Palm Bay .....	26.4	27.6	27.8	5.4	5.4	5.4	32.2	33.2	33.9
Miami-Hialeah .....	92.5	93.6	94.1	67.9	66.5	66.2	215.9	219.7	220.9
Orlando .....	52.7	53.5	53.7	23.8	25.5	25.7	119.3	123.3	124.8
Pensacola .....	11.2	11.4	11.5	6.2	6.3	6.2	31.8	32.0	32.1
Sarasota .....	8.1	8.8	8.9	3.5	3.6	3.7	29.0	28.9	29.7
Tallahassee .....	4.6	4.8	4.9	2.8	2.9	2.9	22.4	22.7	22.8
Tampa-St. Petersburg-Clearwater .....	90.1	89.7	90.1	37.1	37.4	37.6	214.1	215.0	216.9
West Palm Beach-Boca Raton-DeRay Beach .....	36.9	36.4	37.2	11.5	11.4	11.5	81.8	85.7	88.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Alabama</b> .....	69.8	70.2	70.0	261.1	271.7	270.8	297.6	302.1	302.9
Birmingham .....	28.6	29.0	29.0	87.6	92.3	90.9	59.9	60.7	60.5
Huntsville .....	3.5	3.5	3.5	25.5	26.8	26.8	28.7	29.7	29.8
Mobile .....	7.6	7.3	7.2	33.3	34.5	34.4	27.7	28.3	28.2
Montgomery .....	7.3	7.3	7.3	24.2	24.4	24.4	31.1	31.7	31.8
Tuscaloosa .....	2.0	2.1	2.1	7.8	8.2	8.2	19.5	19.3	19.5
<b>Alaska</b> .....	12.4	11.4	11.2	42.9	40.8	40.5	69.0	67.2	66.7
<b>Arizona</b> .....	90.8	91.4	91.5	331.3	343.2	344.2	240.2	247.3	251.0
Phoenix .....	71.6	72.1	72.1	222.5	231.8	232.1	124.0	130.3	132.4
Tucson .....	12.5	12.6	12.7	61.7	63.9	64.3	50.7	51.0	52.3
<b>Arkansas</b> .....	37.5	38.3	38.1	147.9	155.1	155.0	150.2	149.7	150.1
Fayetteville-Springdale .....	1.5	1.4	1.4	6.4	6.9	6.9	10.9	10.9	11.0
Fort Smith .....	2.7	2.7	2.7	14.9	15.7	15.6	7.4	7.5	7.5
Little Rock-North Little Rock .....	15.4	15.5	15.5	51.2	53.1	53.2	46.1	46.5	46.5
Pine Bluff .....	1.6	1.7	1.7	5.8	5.9	5.9	7.4	7.6	7.6
<b>California</b> .....	776.9	794.9	797.0	2,797.8	2,926.8	2,936.4	1,676.0	1,906.9	1,924.9
Anaheim-Santa Ana .....	84.6	84.2	84.4	260.6	275.7	276.7	116.4	116.7	117.7
Bakersfield .....	6.4	6.3	6.2	30.7	31.7	31.9	38.4	40.7	41.2
Fresno .....	13.8	13.8	13.9	45.4	47.4	47.3	44.4	44.8	45.6
Los Angeles-Long Beach .....	278.4	286.4	287.4	1,017.7	1,054.4	1,059.2	495.4	496.9	504.1
Modesto .....	4.5	5.0	5.0	21.0	22.3	22.2	16.8	16.7	17.3
Oakland .....	53.0	55.4	55.5	178.0	187.6	187.1	160.5	165.0	165.6
Oxnard-Ventura .....	10.4	10.6	10.7	43.6	46.6	46.6	40.7	40.4	40.8
Riverside-San Bernardino .....	24.2	25.4	25.5	134.2	141.9	143.5	122.2	124.5	126.4
Sacramento .....	31.1	32.4	32.5	108.8	116.7	117.0	163.8	165.7	167.2
Salinas-Seaside-Monterey .....	5.0	5.4	5.4	25.5	26.6	26.5	26.9	27.1	26.8
San Diego .....	57.4	59.1	59.1	215.6	228.5	228.6	155.1	158.1	159.9
San Francisco .....	113.2	112.7	112.9	288.8	279.3	279.7	135.5	136.9	138.5
San Jose .....	33.1	32.8	32.8	185.2	192.0	192.1	83.9	86.5	87.3
Santa Barbara-Santa Maria-Lompoc .....	8.0	8.3	8.3	36.7	40.1	40.1	27.5	27.2	27.9
Santa Rosa-Petaluma .....	8.2	8.2	8.2	25.8	27.7	27.8	22.1	22.5	22.4
Stockton .....	8.1	8.3	8.3	26.6	28.9	28.9	29.1	30.5	30.5
Vallejo-Fairfield-Napa .....	4.8	4.8	4.8	26.4	29.2	29.1	36.7	37.5	37.6
<b>Colorado</b> .....	96.5	96.6	98.4	320.2	321.7	323.3	262.7	262.6	265.6
Boulder-Longmont .....	3.9	3.9	3.9	21.2	22.3	22.2	21.4	22.3	22.2
Denver .....	65.3	64.7	64.4	193.0	194.2	193.6	125.2	126.4	127.3
<b>Connecticut</b> .....	142.0	146.9	147.0	378.5	392.0	392.4	202.2	202.6	206.0
Bridgeport-Milford .....	11.0	11.7	11.8	44.1	46.6	46.4	18.2	18.5	18.6
Hartford .....	76.4	79.6	79.5	103.7	108.0	108.1	59.5	59.0	59.4
New Britain .....	3.9	4.4	4.5	12.8	13.8	13.9	6.8	6.7	6.9
New Haven-Meriden .....	14.7	15.2	15.3	65.7	69.1	69.2	31.1	31.0	31.3
Stamford .....	11.4	12.3	12.3	37.4	39.2	39.5	10.2	10.2	10.1
Waterbury .....	4.1	4.2	4.2	20.2	21.7	21.9	12.4	12.4	12.6
<b>Delaware</b> .....	23.7	25.2	25.2	68.5	72.3	72.2	47.1	47.4	48.0
Wilmington .....	21.7	23.4	23.3	61.0	64.3	64.0	37.8	37.8	38.3
<b>District of Columbia</b> .....	36.8	36.4	36.5	226.8	233.8	234.2	262.5	257.5	259.4
Washington MSA .....	117.1	121.1	121.1	628.7	646.2	646.7	558.2	561.2	565.2
<b>Florida</b> .....	347.1	358.4	358.7	1,228.4	1,279.1	1,291.2	718.3	748.5	757.0
Daytona Beach .....	6.5	6.5	6.8	28.9	29.0	28.9	17.7	18.5	18.7
Fort Lauderdale-Hollywood-Pompano Beach .....	37.4	38.1	38.3	119.6	122.5	125.1	55.5	58.0	58.4
Fort Myers-Cape Coral .....	8.2	8.7	8.8	27.5	30.2	30.5	15.0	16.2	16.4
Gainesville .....	4.0	4.1	4.1	20.7	21.5	21.7	34.9	36.9	37.1
Jacksonville .....	35.9	37.6	37.7	92.0	96.9	97.4	57.9	58.8	59.4
Lakeland-Winter Haven .....	8.0	8.1	8.2	30.8	33.4	33.6	19.1	19.5	19.6
Melbourne-Titusville-Palm Bay .....	5.1	5.3	5.4	38.7	41.9	41.9	20.0	20.8	20.9
Miami-Hialeah .....	68.8	69.8	69.7	214.6	217.6	217.6	105.7	108.5	108.9
Orlando .....	31.1	33.1	33.2	142.9	153.4	154.5	53.3	56.4	56.9
Pensacola .....	5.6	5.8	5.8	28.7	30.3	30.3	27.6	28.2	28.4
Sarasota .....	8.2	8.2	8.2	27.3	29.6	29.8	12.0	12.4	12.4
Tallahassee .....	4.4	4.5	4.5	20.7	21.6	21.8	44.4	48.0	46.2
Tampa-St. Petersburg-Clearwater .....	62.3	64.4	64.5	207.1	215.1	217.5	99.8	102.6	103.1
West Palm Beach-Boca Raton-Delray Beach .....	26.4	27.6	27.9	69.2	92.0	95.3	38.3	39.9	40.4

See footnotes at end of table.





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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Georgia</b> .....	567.4	572.8	575.0	168.1	172.3	172.5	693.1	699.9	701.6
Albany .....	8.6	8.4	8.4	2.1	2.1	2.1	12.5	12.6	12.6
Athens .....	15.4	16.0	16.1	1.7	1.7	1.7	12.8	13.0	13.2
Atlanta .....	193.9	191.9	193.3	109.9	113.8	113.7	383.3	389.0	390.7
Augusta .....	36.2	36.8	37.1	5.1	5.1	5.1	33.2	33.0	33.3
Columbus .....	19.7	19.7	19.8	3.5	3.4	3.3	20.0	20.5	20.7
Macon-Warner Robins .....	19.0	19.7	19.9	5.1	5.1	5.2	25.5	25.1	25.2
Savannah .....	16.8	17.2	17.1	9.8	9.2	9.5	24.0	23.5	23.8
<b>Hawaii</b> .....	21.8	22.1	22.1	34.1	34.8	34.8	118.0	121.1	122.1
Honolulu .....	15.9	16.4	16.4	27.8	28.5	28.5	92.8	95.8	96.6
<b>Idaho</b> .....	53.4	55.3	55.1	18.6	19.2	19.2	85.5	84.7	85.0
Boise City .....	10.2	11.0	11.2	5.5	6.0	6.0	22.5	22.4	22.7
<b>Illinois</b> .....	922.5	934.1	934.6	280.5	287.8	289.2	1,218.6	1,244.9	1,251.6
Aurora-Elgin .....	35.7	37.0	37.0	4.8	5.4	5.4	36.8	37.4	38.0
Bloomington-Normal .....	4.5	5.1	5.2	2.9	2.9	3.0	12.5	12.5	12.5
Champaign-Urbana-Rantoul .....	7.5	7.6	7.6	2.1	1.9	1.9	19.1	19.5	19.4
Chicago .....	545.4	542.0	544.0	190.7	194.6	195.1	745.5	751.7	762.0
Davenport-Rock Island-Moline .....	29.4	33.0	33.0	8.2	8.3	8.3	42.3	42.2	42.4
Decatur .....	13.8	13.0	12.9	4.5	4.6	4.6	11.8	11.7	11.8
Joliet .....	19.7	19.6	19.6	8.8	8.4	8.4	22.5	22.4	22.7
Kankakee .....	5.4	5.1	5.3	1.5	1.5	1.5	8.2	8.1	8.2
Lake County .....	39.5	40.4	40.8	6.4	6.7	6.7	46.5	47.3	47.9
Peoria .....	30.8	32.1	32.1	6.5	6.6	6.6	33.4	33.5	33.6
Rockford .....	45.6	44.2	44.1	4.4	4.3	4.5	28.6	28.5	28.6
Springfield .....	3.8	3.9	3.9	4.7	4.8	4.8	19.4	19.4	19.5
<b>Indiana</b> .....	599.5	615.2	618.1	114.6	118.2	118.2	545.6	559.1	564.3
Anderson .....	18.3	17.1	16.8	1.4	1.4	1.4	11.0	11.2	11.2
Bloomington .....	8.3	9.0	9.0	1.7	1.7	1.7	11.9	12.8	12.8
Elkhart-Goshen .....	49.0	52.4	52.2	2.8	2.8	2.8	18.0	18.8	18.9
Evansville .....	31.2	29.9	30.2	8.5	8.6	8.6	31.5	31.9	32.4
Fort Wayne .....	49.4	50.4	50.4	11.5	12.0	12.0	43.8	46.0	47.0
Gary-Hammond .....	48.8	55.9	55.8	13.4	13.8	13.7	50.5	51.8	52.1
Indianapolis .....	107.2	106.5	106.7	35.4	37.1	37.1	151.3	156.5	158.1
Kokomo .....	19.6	19.3	19.3	1.3	1.4	1.4	9.6	10.2	10.1
Lafayette .....	11.3	11.4	11.5	1.6	1.6	1.7	12.6	12.9	13.0
Muncie .....	10.6	10.2	10.1	2.2	2.4	2.4	12.2	12.3	12.4
South Bend-Mishawaka .....	23.8	24.0	24.0	4.8	5.0	5.0	28.7	29.4	29.8
Terre Haute .....	10.6	10.0	10.0	2.6	2.6	2.6	14.2	14.1	14.1
<b>Iowa</b> .....	199.9	216.7	217.8	52.8	53.9	54.2	284.1	281.8	281.8
Cedar Rapids .....	22.4	23.0	23.2	4.2	4.3	4.2	20.4	20.6	20.6
Des Moines .....	21.7	23.2	23.5	11.8	12.2	12.3	51.9	53.0	53.1
Dubuque .....	8.8	12.3	12.3	1.6	1.6	1.6	9.5	10.3	10.3
Iowa City .....	3.9	4.0	4.2	1.2	1.4	1.4	9.3	9.1	9.2
Sioux City .....	9.9	9.1	9.2	3.4	4.0	4.0	12.5	12.7	12.9
Waterloo-Cedar Falls .....	9.3	14.1	14.3	1.8	1.8	1.8	14.3	14.5	14.7
<b>Kansas</b> .....	174.0	180.3	181.8	62.1	63.5	63.4	252.5	255.2	256.7
Lawrence .....	4.4	4.3	4.5	1.3	1.3	1.3	7.1	7.3	7.3
Topeka .....	9.0	8.8	8.9	6.8	6.5	6.5	19.2	19.5	19.7
Wichita .....	55.1	59.5	59.9	9.8	9.9	10.0	50.1	50.6	50.8
<b>Kentucky</b> .....	253.3	260.4	259.7	69.1	71.3	71.6	312.4	307.1	310.9
Lexington-Fayette .....	27.4	27.9	28.3	7.6	7.3	7.2	41.0	40.3	39.8
Louisville .....	86.3	86.0	84.8	26.0	27.6	27.9	105.6	105.8	107.2
Owensboro .....	5.9	6.3	6.2	2.3	2.3	2.3	8.4	7.9	8.0
<b>Louisiana</b> .....	167.3	171.6	172.1	105.9	107.6	107.1	368.0	360.7	361.7
Alexandria .....	3.3	3.3	3.3	2.4	2.4	2.4	10.9	10.9	11.0
Baton Rouge .....	19.0	19.2	19.3	10.4	10.4	10.4	52.5	53.2	53.0
Houma-Thibodaux .....	5.1	4.6	4.5	5.9	5.9	6.1	13.2	13.6	13.5
Lafayette .....	5.8	5.9	6.0	6.4	6.4	6.3	22.9	21.9	22.1
Lake Charles .....	8.6	11.0	10.9	3.8	3.6	3.7	14.2	14.0	14.0
Monroe .....	7.5	7.2	7.4	2.6	2.6	2.6	15.0	14.7	15.1
New Orleans .....	44.4	42.1	42.2	42.2	43.2	43.0	136.7	133.5	134.5
Shreveport .....	18.5	18.1	18.1	8.4	7.9	7.9	31.5	30.1	30.3
<b>Maine</b> .....	104.7	104.6	104.8	19.7	19.8	19.6	117.5	126.7	128.0
Lewiston-Auburn .....	9.6	9.8	9.8	1.3	1.4	1.4	9.3	9.4	9.5
Portland .....	17.1	15.8	15.7	6.0	6.3	6.3	35.5	36.8	37.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Georgia</b> .....	148.7	150.2	150.2	522.5	539.7	538.3	462.4	470.6	471.9
Albany .....	2.4	2.5	2.5	8.0	8.4	8.5	12.6	12.8	12.9
Athens .....	2.1	2.0	2.0	9.3	9.4	9.5	18.7	19.6	19.6
Atlanta .....	96.7	97.7	97.7	315.1	326.7	326.0	185.5	192.0	192.4
Augusta .....	5.8	5.9	5.8	29.6	28.6	28.6	33.3	33.5	33.5
Columbus .....	6.3	6.2	6.3	15.4	15.8	16.0	20.2	20.3	20.1
Macon-Warner Robins .....	7.4	7.7	7.7	20.8	21.3	21.3	34.1	34.1	34.2
Savannah .....	4.5	4.3	4.3	22.8	22.9	23.0	16.0	16.7	16.5
<b>Hawaii</b> .....	33.2	33.9	33.9	120.1	126.7	127.5	95.8	94.9	98.4
Honolulu .....	28.1	28.7	28.7	93.2	98.0	98.6	81.0	79.6	82.9
<b>Idaho</b> .....	23.9	24.3	24.1	68.0	68.9	68.4	73.4	75.1	74.5
Boise City .....	8.6	8.6	8.6	18.8	18.9	19.1	16.8	16.8	17.1
<b>Illinois</b> .....	348.4	354.5	354.2	1,135.2	1,159.6	1,159.2	727.1	725.9	728.5
Aurora-Elgin .....	6.8	6.9	6.9	28.8	30.3	30.8	14.7	15.3	15.3
Bloomington-Normal .....	9.2	9.4	9.4	11.4	11.3	11.3	12.8	12.7	12.8
Champaign-Urbana-Rantoul .....	3.3	3.2	3.2	14.4	14.7	14.7	35.1	35.1	35.3
Chicago .....	251.7	259.3	258.9	769.6	790.2	792.3	361.0	357.2	360.2
Davenport-Rock Island-Moline .....	8.0	8.1	8.1	30.4	30.1	30.0	27.2	27.4	27.6
Decatur .....	2.7	2.7	2.7	10.2	10.4	10.4	5.5	5.7	5.7
Joliet .....	3.8	3.9	3.9	19.1	19.1	19.0	18.3	18.5	16.5
Kankakee .....	1.6	1.6	1.6	8.1	8.2	8.2	6.6	7.0	7.0
Lake County .....	6.4	6.3	6.4	41.2	44.5	43.5	29.7	31.2	31.5
Peoria .....	7.0	7.1	7.1	32.1	32.5	32.2	16.1	15.9	18.0
Rockford .....	5.5	5.8	5.6	24.3	24.2	24.3	12.4	12.4	12.4
Springfield .....	7.8	7.8	7.8	23.9	22.8	23.0	32.1	32.1	32.3
<b>Indiana</b> .....	111.9	115.4	115.5	435.3	459.1	457.7	356.8	359.1	361.1
Anderson .....	1.6	1.6	1.6	9.4	9.7	9.7	5.8	5.8	5.8
Bloomington .....	1.7	1.8	1.8	7.6	8.2	8.2	18.6	18.4	18.8
Elkhart-Goshen .....	2.4	2.5	2.5	12.5	13.3	13.3	5.4	5.7	5.7
Evansville .....	4.9	5.1	5.1	28.3	29.3	29.1	11.9	12.0	12.2
Fort Wayne .....	11.8	12.0	12.1	36.0	38.4	38.2	17.8	18.3	18.3
Gary-Hammond .....	8.1	8.2	8.2	44.3	46.2	45.9	30.5	31.2	31.4
Indianapolis .....	43.5	45.4	45.4	130.6	139.7	139.7	89.3	90.7	91.1
Kokomo .....	1.4	1.4	1.4	5.9	6.5	6.4	5.8	5.8	5.7
Lafayette .....	3.0	3.0	3.0	11.1	11.5	11.4	21.1	21.5	21.8
Muncie .....	1.6	1.6	1.6	9.9	10.6	10.5	11.4	11.5	11.8
South Bend-Mishawaka .....	5.6	5.8	5.8	29.6	31.1	31.0	11.5	11.6	11.7
Terre Haute .....	1.8	1.9	1.9	11.0	11.1	11.1	10.8	11.1	11.0
<b>Iowa</b> .....	62.9	64.7	64.5	242.5	247.6	247.0	215.7	217.5	220.5
Cedar Rapids .....	4.6	4.4	4.4	18.0	18.4	18.3	10.3	9.8	9.8
Des Moines .....	25.8	27.6	27.7	50.8	53.2	53.3	30.2	30.5	30.6
Dubuque .....	1.4	1.5	1.5	12.5	13.0	13.0	3.6	3.5	3.5
Iowa City .....	1.5	1.8	1.8	7.7	7.8	7.8	25.3	25.3	25.1
Sioux City .....	2.5	2.6	2.5	12.8	14.1	14.6	6.4	6.5	6.4
Waterloo-Cedar Falls .....	3.2	3.3	3.3	14.1	14.6	14.5	12.7	13.0	13.4
<b>Kansas</b> .....	54.3	55.5	55.5	196.2	201.6	201.2	206.0	202.0	203.8
Lawrence .....	1.1	1.1	1.1	5.4	5.6	5.6	11.8	11.4	11.7
Topeka .....	6.0	6.3	6.4	19.0	19.7	19.7	20.8	20.5	20.7
Wichita .....	10.9	11.2	11.2	43.4	45.3	45.6	25.8	26.0	26.3
<b>Kentucky</b> .....	60.5	62.3	61.9	263.4	274.9	273.1	243.3	243.2	243.7
Lexington-Fayette .....	9.0	9.0	9.0	39.4	40.9	40.1	35.1	35.6	35.7
Louisville .....	27.9	29.1	29.1	99.3	104.2	103.4	60.1	61.6	61.9
Owensboro .....	1.4	1.4	1.4	7.5	7.9	7.8	5.2	4.9	4.9
<b>Louisiana</b> .....	85.1	83.5	83.1	318.2	322.6	323.0	323.3	317.8	318.4
Alexandria .....	2.6	2.6	2.6	11.0	11.3	11.3	12.9	12.8	12.9
Baton Rouge .....	13.6	13.3	13.1	41.1	42.5	42.4	56.6	55.8	55.8
Houma-Thibodaux .....	2.5	2.3	2.3	7.9	8.3	8.3	10.9	10.6	10.6
Lafayette .....	4.0	3.9	3.9	17.8	16.4	16.2	13.6	13.0	13.0
Lake Charles .....	2.7	2.8	2.8	10.6	10.7	10.8	10.6	10.6	10.7
Monroe .....	4.4	4.6	4.6	11.1	11.5	11.5	11.1	11.6	11.7
New Orleans .....	33.8	33.8	33.5	133.9	135.0	134.9	85.6	84.2	84.6
Shreveport .....	7.7	7.4	7.4	32.1	31.7	31.8	25.1	25.3	25.4
<b>Maine</b> .....	23.1	24.1	24.0	102.1	109.5	108.0	91.7	92.8	94.3
Lewiston-Auburn .....	2.1	2.2	2.2	10.0	10.1	10.1	4.0	4.0	4.0
Portland .....	11.2	12.2	12.1	27.6	29.8	29.6	15.3	15.2	15.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Maryland</b> .....	1,991.6	2,001.6	2,005.9	1.7	1.7	1.7	145.3	147.4	145.8
Baltimore MSA .....	1,071.0	1,075.8	1,077.8	.2	.2	.2	68.7	71.2	70.0
Baltimore City .....	456.2	460.7	462.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.0	18.7	18.1
Suburban Maryland-D.C. ....	711.7	718.4	721.1	.4	.4	.3	62.9	62.8	61.6
<b>Massachusetts</b> .....	3,028.5	3,080.1	3,096.9	2.0	2.1	2.1	126.8	134.6	134.4
Boston .....	1,709.2	1,742.7	1,758.1	.9	1.0	1.0	66.2	71.1	70.6
Brockton .....	72.3	74.6	75.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	5.6	5.6
Fall River .....	56.6	58.1	58.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	3.1	3.1
Fitchburg-Leominster .....	40.4	41.1	41.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.3
Lawrence-Haverhill .....	159.8	162.9	163.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	9.6	9.4
Lowell .....	105.3	106.3	106.9	.3	.1	.1	5.3	5.9	5.8
New Bedford .....	66.8	67.5	67.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	3.9	3.7
Pittsfield .....	43.1	44.2	43.9	.1	.1	.1	2.0	2.4	2.3
Springfield .....	234.9	243.6	245.2	.2	.2	.2	9.1	10.3	10.3
Worcester .....	194.9	200.0	201.9	.2	.2	.2	9.2	9.8	9.9
<b>Michigan</b> .....	3,704.6	3,747.8	3,754.4	9.9	11.2	11.1	123.1	150.8	145.0
Ann Arbor .....	164.3	189.9	172.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	5.7	5.6
Battle Creek .....	56.0	58.5	56.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.9	1.8
Benton Harbor .....	62.8	64.7	65.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.7	1.6
Detroit .....	1,881.0	1,890.5	1,892.3	.9	.9	.9	67.0	76.6	74.6
Flint .....	182.1	174.0	174.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.7	5.8	5.3
Grand Rapids .....	308.3	312.3	314.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.0	17.0	16.7
Jackson .....	50.2	50.4	50.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.7	1.5
Kalamazoo .....	104.0	108.8	107.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.4	3.4
Lansing-East Lansing .....	204.0	203.0	206.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	5.7	5.2
Muskegon .....	56.1	58.9	56.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.1	2.0
Saginaw-Bay City-Midland .....	154.9	161.1	160.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	7.3	7.2
<b>Minnesota</b> .....	1,925.7	1,998.4	1,998.5	5.2	7.1	8.8	81.1	93.2	88.3
Duluth .....	83.2	85.4	85.5	2.4	4.3	4.3	3.8	4.4	4.3
Minneapolis-St. Paul .....	1,252.5	1,282.2	1,280.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	53.7	56.9	55.1
Rochester .....	56.2	57.6	57.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.5	2.3
St. Cloud .....	66.7	72.2	72.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	5.5	5.7
<b>Mississippi</b> .....	859.7	878.0	879.1	6.3	8.6	8.5	38.2	36.4	35.8
Jackson .....	172.9	177.5	177.5	1.1	1.3	1.4	8.9	9.1	8.7
<b>Missouri</b> .....	2,160.0	2,191.8	2,189.8	5.7	5.4	5.5	100.0	103.9	101.0
Kansas City .....	723.8	722.7	724.1	.5	.8	.8	37.0	36.9	36.2
St. Joseph .....	35.9	35.3	35.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.7	1.6
St. Louis .....	1,104.6	1,113.1	1,116.2	3.5	3.4	3.4	56.8	56.1	56.2
Springfield .....	105.0	107.6	107.8	.1	.1	.1	4.3	4.5	4.5
<b>Montana</b> .....	277.9	278.1	276.7	5.8	6.4	8.1	9.4	10.6	9.8
<b>Nebraska</b> .....	666.8	677.3	679.2	2.0	2.0	2.0	26.2	24.5	23.7
Lincoln .....	110.8	112.1	112.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.9	3.7
Omaha .....	294.8	300.8	301.5	.2	.2	.2	12.9	13.5	13.3
<b>Nevada</b> .....	481.0	509.1	511.6	6.5	7.4	7.5	28.3	32.7	32.3
Las Vegas .....	270.5	292.1	294.4	.3	.3	.3	18.8	19.3	19.0
Reno .....	129.5	134.8	134.6	.7	.8	.8	7.3	8.3	8.1
<b>New Hampshire</b> .....	496.8	517.6	517.0	.6	.6	.6	34.3	37.1	36.2
Nashua .....	88.2	92.4	92.8	.1	.1	.1	4.9	5.3	5.4
Portsmouth-Dover-Rochester, NH-ME .....	104.8	109.1	108.7	.1	.1	.1	5.6	5.2	5.4
<b>New Jersey</b> .....	3,545.2	3,621.5	3,634.6	2.2	2.4	2.3	164.7	181.4	181.6
Atlantic City .....	154.2	164.7	161.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.1	11.8	12.0
Bergen-Passaic .....	656.6	665.1	667.9	.1	.1	.1	31.2	32.7	32.2
Camden .....	416.9	428.6	431.1	.1	.1	.1	21.7	25.5	25.6
Jersey City .....	243.5	247.7	246.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.9	7.6	7.6
Middlesex-Somerset-Hunterdon .....	503.0	513.3	515.7	.6	.6	.6	23.1	23.0	22.8
Monmouth-Ocean .....	311.0	319.1	319.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.3	21.5	21.5
Newark .....	958.8	966.1	971.0	.7	.7	.7	37.8	41.1	41.3
Trenton .....	193.1	198.4	200.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	5.7	5.6
Vineland-Milville-Bridgeton .....	55.4	57.4	57.0	.3	.4	.4	2.5	2.7	2.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Maryland</b> .....	209.5	208.2	208.4	92.3	94.0	94.1	511.0	512.9	516.5
Baltimore MSA .....	132.5	131.4	131.3	55.0	55.7	55.7	265.3	265.0	266.8
Baltimore City .....	46.6	45.3	45.7	27.6	28.9	27.3	97.7	97.9	96.3
Suburban Maryland-D.C. ....	35.5	35.5	35.8	24.6	26.3	26.7	193.4	194.3	197.3
<b>Massachusetts</b> .....	615.9	605.0	607.4	126.4	130.1	130.0	717.4	725.2	732.8
Boston .....	294.6	289.7	290.3	73.4	74.8	74.9	387.1	393.7	401.8
Brockton .....	11.4	11.1	11.1	5.1	5.0	5.0	21.6	22.1	22.4
Fall River .....	17.6	16.4	16.6	1.9	2.0	2.0	14.8	16.0	18.2
Fitchburg-Leominster .....	13.4	13.1	13.1	1.5	1.5	1.5	10.3	10.7	10.9
Lawrence-Haverhill .....	52.6	50.7	50.8	6.7	6.9	7.0	35.8	38.0	38.5
Lowell .....	37.1	36.8	37.1	3.2	3.2	3.0	22.3	21.9	22.2
New Bedford .....	21.3	20.5	20.6	3.2	3.5	3.5	15.5	15.4	15.8
Pittsfield .....	12.2	11.3	11.3	1.0	1.2	1.2	11.2	11.4	11.4
Springfield .....	52.5	53.4	53.8	9.0	9.3	9.3	55.3	57.7	58.5
Worcester .....	45.4	45.7	45.9	8.5	8.2	8.2	48.6	50.6	51.5
<b>Michigan</b> .....	998.2	961.0	963.5	150.6	146.5	148.9	835.9	858.8	866.2
Ann Arbor .....	39.0	37.9	38.3	4.8	4.8	4.8	26.9	29.2	29.8
Battle Creek .....	15.1	15.5	15.5	1.8	1.8	1.8	10.8	10.7	10.9
Benton Harbor .....	21.2	21.3	21.4	2.5	2.5	2.5	12.0	12.9	13.0
Detroit .....	492.0	467.4	466.7	85.5	85.7	86.0	436.2	446.5	451.0
Flint .....	65.7	53.4	52.9	4.7	4.3	4.3	44.0	44.6	45.7
Grand Rapids .....	93.7	94.9	95.7	10.8	10.8	10.9	77.4	78.5	79.5
Jackson .....	12.6	12.9	13.1	4.1	4.0	3.9	11.3	11.1	11.4
Kalamazoo .....	29.2	29.1	29.5	3.3	3.4	3.4	23.2	24.3	24.7
Lansing-East Lansing .....	37.9	32.8	36.2	5.2	5.0	5.0	40.0	40.4	41.0
Muskegon .....	17.6	17.7	17.8	2.6	2.5	2.5	12.1	12.4	12.4
Saginaw-Bay City-Midland .....	45.8	46.0	45.7	7.2	7.1	7.2	35.5	36.6	37.3
<b>Minnesota</b> .....	369.5	377.8	375.7	98.8	101.0	101.5	478.2	490.6	493.6
Duluth .....	7.2	7.3	7.4	5.7	5.5	5.4	22.3	22.1	22.4
Minneapolis-St. Paul .....	251.8	253.2	251.6	66.5	68.4	68.0	309.3	315.0	318.4
Rochester .....	10.6	10.6	10.7	1.8	1.6	1.6	11.9	11.8	11.9
St. Cloud .....	10.8	11.9	11.6	3.7	3.6	3.6	20.3	21.7	22.0
<b>Mississippi</b> .....	222.9	227.2	227.7	40.3	40.9	40.5	188.6	189.1	191.1
Jackson .....	20.3	21.0	20.9	11.1	11.4	11.4	42.4	42.6	43.3
<b>Missouri</b> .....	419.7	417.2	415.3	141.9	144.1	144.1	514.8	514.0	516.8
Kansas City .....	118.1	111.0	111.7	54.8	55.4	55.6	181.4	181.1	182.6
St. Joseph .....	8.9	8.7	8.8	2.1	2.0	2.0	8.9	8.6	8.7
St. Louis .....	220.6	218.6	217.4	74.2	75.0	75.5	264.1	261.9	265.4
Springfield .....	20.1	20.4	20.4	6.4	6.9	6.9	28.6	29.1	29.3
<b>Montana</b> .....	21.7	21.8	21.6	20.5	20.3	20.1	72.7	72.4	72.9
<b>Nebraska</b> .....	86.2	85.9	85.4	43.2	46.0	46.1	171.8	178.9	177.3
Lincoln .....	12.9	13.4	13.4	6.0	6.0	6.0	25.7	25.8	25.8
Omaha .....	32.1	33.1	32.7	23.0	24.8	25.0	78.0	79.2	79.6
<b>Nevada</b> .....	22.5	23.9	24.1	27.2	27.9	28.2	98.4	102.5	103.9
Las Vegas .....	8.2	8.8	8.8	15.5	18.0	16.2	56.8	59.4	60.4
Reno .....	8.3	8.4	8.4	8.8	9.0	9.0	29.8	30.4	30.9
<b>New Hampshire</b> .....	117.4	120.6	120.9	17.4	17.6	17.7	125.7	129.3	130.7
Nashua .....	35.1	36.8	38.6	2.2	2.2	2.3	20.5	20.9	21.5
Portsmouth-Dover-Rochester,NH-ME .....	20.1	19.7	19.6	2.8	3.1	3.1	27.6	29.2	28.9
<b>New Jersey</b> .....	695.2	681.4	679.7	232.7	235.8	235.7	850.4	872.2	882.1
Atlantic City .....	8.4	8.6	8.5	5.9	6.0	6.0	31.1	34.0	32.1
Bergen-Passaic .....	162.1	159.6	158.5	28.9	29.7	29.8	189.3	190.1	193.1
Camden .....	75.9	73.6	73.4	17.6	17.8	17.6	110.9	112.8	114.7
Jersey City .....	54.1	53.0	52.8	31.3	30.4	30.8	59.0	61.5	62.3
Middlesex-Somerset-Hunterdon .....	113.3	115.2	116.0	40.7	41.1	41.0	122.1	123.2	125.0
Monmouth-Ocean .....	30.7	29.7	30.0	15.7	16.3	16.3	87.5	87.4	88.2
Newark .....	187.9	185.6	185.3	81.3	79.9	79.9	197.6	201.4	203.1
Trenton .....	31.9	32.0	32.0	6.3	6.7	6.6	31.7	32.2	32.8
Vineland-Milville-Bridgeton .....	15.5	15.5	15.1	2.1	2.1	2.1	10.9	11.9	11.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Maryland</b> .....	119.7	121.1	121.3	514.1	525.6	525.2	398.0	390.7	392.9
Baltimore MSA .....	73.6	74.5	74.7	268.1	271.8	272.2	207.6	206.0	206.9
Baltimore City .....	45.8	45.9	45.9	134.2	139.3	139.6	86.8	86.7	87.5
Suburban Maryland-D.C. ....	38.9	40.2	40.2	199.1	204.2	203.3	156.9	154.7	155.7
<b>Massachusetts</b> .....	207.1	214.5	215.0	841.6	676.2	879.8	391.3	392.4	395.4
Boston .....	142.5	148.1	148.8	547.0	564.9	569.0	197.5	199.4	201.9
Brockton .....	3.0	3.2	3.2	14.8	15.3	15.4	12.2	12.3	12.4
Fall River .....	2.8	3.0	3.0	10.7	11.1	11.1	6.5	6.5	6.6
Fitchburg-Leominster .....	1.6	1.6	1.6	7.0	7.5	7.4	4.4	4.4	4.5
Lawrence-Haverhill .....	6.0	6.5	6.5	31.2	32.0	31.9	16.8	19.2	19.3
Lowell .....	4.1	4.3	4.3	19.9	21.1	21.2	13.1	12.9	13.1
New Bedford .....	2.6	2.7	2.6	12.0	12.2	12.2	9.1	9.3	9.5
Pittsfield .....	2.1	2.2	2.2	9.6	10.9	10.7	4.7	4.7	4.7
Springfield .....	15.5	16.6	16.6	55.5	57.8	58.0	37.8	38.3	38.5
Worcester .....	12.6	13.1	13.1	46.8	48.2	48.6	23.6	24.2	24.5
<b>Michigan</b> .....	172.6	178.2	178.6	797.0	808.6	805.4	617.1	630.4	635.8
Ann Arbor .....	4.4	4.7	4.8	32.2	34.7	34.7	51.4	52.6	53.9
Battle Creek .....	3.7	3.1	3.1	11.4	11.8	11.8	11.5	11.7	11.7
Benton Harbor .....	2.4	2.6	2.6	14.5	14.9	15.0	8.6	6.7	8.7
Detroit .....	100.2	100.5	100.5	455.6	484.7	461.8	243.7	246.3	250.8
Flint .....	6.2	6.7	6.7	32.0	33.6	33.5	23.7	25.6	25.8
Grand Rapids .....	13.5	13.5	13.6	64.0	65.1	65.2	31.4	32.1	32.1
Jackson .....	1.6	1.5	1.5	9.5	9.3	9.4	9.5	9.7	9.8
Kalamazoo .....	4.6	5.1	5.1	22.8	23.4	23.5	17.5	18.0	18.0
Lansing-East Lansing .....	11.1	11.9	12.1	36.3	36.0	37.7	67.3	68.9	69.3
Muskegon .....	1.4	1.3	1.3	11.1	12.0	11.7	8.9	9.0	9.1
Saginaw-Bay City-Midland .....	6.0	6.2	6.1	31.4	33.9	33.3	22.1	23.8	23.7
<b>Minnesota</b> .....	118.5	122.4	122.2	453.9	479.6	478.1	320.5	326.8	330.2
Duluth .....	3.2	3.1	3.1	19.8	20.3	20.2	18.7	18.4	18.5
Minneapolis-St. Paul .....	91.6	94.6	94.5	307.0	319.9	319.3	171.6	173.3	174.2
Rochester .....	1.6	1.6	1.5	22.8	23.6	23.8	6.0	6.0	6.0
St. Cloud .....	2.4	2.5	2.5	13.6	13.6	13.6	12.3	13.4	13.6
<b>Mississippi</b> .....	37.7	38.9	38.9	135.8	140.4	140.0	193.9	196.5	198.6
Jackson .....	13.8	14.1	14.2	36.9	38.4	38.3	38.6	39.4	39.5
<b>Missouri</b> .....	131.9	135.0	135.0	495.3	517.1	514.4	350.7	355.1	357.7
Kansas City .....	56.8	56.8	56.8	163.0	167.2	166.6	112.2	113.7	114.0
St. Joseph .....	1.9	1.9	1.9	6.8	6.6	6.5	5.9	5.8	6.0
St. Louis .....	71.7	72.6	72.6	276.3	286.6	286.1	137.4	136.9	139.6
Springfield .....	5.1	5.1	5.1	26.6	27.5	27.5	13.8	14.0	14.0
<b>Montana</b> .....	12.7	13.0	12.9	62.6	63.9	63.2	72.3	69.7	70.1
<b>Nebraska</b> .....	47.7	48.5	48.6	148.3	150.4	150.7	141.4	143.1	145.4
Lincoln .....	7.8	8.0	8.0	22.6	24.6	24.4	31.7	30.4	30.9
Omaha .....	29.0	30.1	30.3	77.5	76.2	76.4	44.1	43.7	44.0
<b>Nevada</b> .....	23.2	24.5	24.5	211.2	223.7	224.3	63.7	66.5	66.8
Las Vegas .....	13.6	14.7	14.8	126.8	139.6	140.8	32.3	34.0	34.1
Reno .....	6.9	7.2	7.2	51.6	54.0	53.4	18.1	16.7	16.8
<b>New Hampshire</b> .....	29.4	31.4	31.4	106.1	116.3	114.1	63.9	64.7	65.4
Nashua .....	3.3	3.7	3.7	15.9	16.7	16.3	6.2	6.7	6.7
Portsmouth-Dover-Rochester,NH-ME .....	6.0	6.5	6.6	18.0	20.0	19.6	24.6	25.3	25.4
<b>New Jersey</b> .....	212.0	222.5	222.6	842.9	882.3	679.7	545.0	543.5	550.7
Atlantic City .....	6.7	7.0	7.0	66.6	72.3	71.0	25.3	24.9	25.0
Bergen-Passaic .....	34.6	37.7	37.8	143.0	148.8	148.7	67.3	66.4	67.9
Camden .....	22.1	24.0	24.0	95.2	99.4	99.8	73.4	75.4	75.9
Jersey City .....	10.1	11.2	11.1	41.7	43.8	44.1	40.3	40.2	40.6
Middlesex-Somerset-Hunterdon .....	33.2	33.6	33.4	97.6	103.2	102.7	72.5	73.4	74.2
Monmouth-Ocean .....	16.9	17.5	17.5	79.1	85.6	83.9	60.7	61.0	62.0
Newark .....	74.0	76.4	76.9	242.6	247.0	247.1	136.6	134.0	136.7
Trenton .....	8.9	9.3	9.3	55.7	57.6	58.3	53.7	54.9	55.9
Vineland-Millville-Bridgeton .....	2.8	2.9	2.9	9.7	10.4	10.3	11.5	11.5	11.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>New Mexico</b> .....	533.1	540.7	540.9	15.1	15.5	15.7	35.5	35.0	34.3
Albuquerque .....	229.6	233.7	234.4	.2	.2	.2	17.2	16.9	16.5
Las Cruces .....	42.0	40.5	40.1	.1	.1	.1	2.6	2.8	2.8
Santa Fe .....	53.8	54.6	54.9	.1	.1	.1	3.3	3.2	3.1
<b>New York</b> .....	8,056.6	8,218.2	8,259.8	6.1	6.4	6.4	330.0	364.7	361.8
Albany-Schenectady-Troy .....	399.2	407.5	410.0	.3	.3	.3	18.7	22.0	21.3
Binghamton .....	119.0	121.8	122.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	6.0	6.0
Buffalo .....	430.9	442.1	443.7	.4	.4	.4	18.4	18.8	17.9
Elmira .....	37.1	39.3	39.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	2.0	1.9
Glens Falls .....	44.7	47.0	46.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.7	2.6
Nassau-Suffolk .....	1,125.8	1,138.6	1,146.6	.2	.2	.2	58.5	60.9	61.2
New York PMSA .....	4,117.0	4,152.2	4,176.2	1.3	1.2	1.2	151.3	158.5	159.1
New York City .....	3,590.7	3,620.0	3,640.3	.7	.6	.6	117.3	121.8	122.4
Niagara Falls .....	80.0	81.2	81.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	3.5	3.4
Orange County .....	98.1	100.7	101.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	5.4	5.4
Poughkeepsie .....	117.3	119.4	120.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.4	6.6	6.6
Rochester .....	461.2	470.0	470.2	.9	.8	.8	17.5	19.3	18.7
Rockland County .....	97.2	97.8	98.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.3	5.3	5.4
Syracuse .....	298.9	301.4	303.4	.2	.2	.2	15.5	17.2	16.6
Utica-Rome .....	120.8	122.9	122.8	.2	.2	.2	3.8	4.6	4.4
Westchester County .....	411.7	416.4	419.3	.3	.3	.3	27.3	29.7	29.5
<b>North Carolina</b> .....	2,791.7	2,880.1	2,891.1	4.8	4.9	4.9	161.6	170.8	170.6
Asheville .....	76.4	78.1	78.0	.1	.1	.1	4.0	3.8	3.8
Charlotte-Gastonia-Rock Hill .....	553.8	574.2	576.4	.3	.3	.3	32.0	34.7	34.7
Greensboro-Winston-Salem-High Point .....	453.4	461.8	464.0	.3	.3	.3	24.1	24.8	24.7
Raleigh-Durham .....	378.2	384.0	385.8	.3	.4	.4	24.4	24.7	24.6
<b>North Dakota</b> .....	250.6	257.7	255.6	4.3	4.4	4.3	10.9	13.0	11.3
Bismarck .....	36.2	36.8	38.8	.2	.2	.2	1.7	1.7	1.6
Fargo-Moorhead .....	70.6	72.5	72.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	4.1	3.7
Grand Forks .....	29.6	30.3	30.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.9	1.7
<b>Ohio</b> .....	4,563.9	4,660.9	4,675.4	22.1	20.2	20.3	174.2	196.5	190.4
Akron .....	265.7	271.8	272.0	.7	.7	.7	9.6	11.4	10.9
Canton .....	154.2	157.6	157.8	1.0	1.1	1.1	6.1	7.5	7.3
Cincinnati .....	667.5	687.9	692.4	.4	.5	.5	28.9	32.2	31.7
Cleveland .....	893.9	913.6	917.0	1.1	1.0	1.1	27.0	29.5	28.7
Columbus .....	648.7	670.5	674.2	.9	1.0	1.0	26.2	30.1	29.4
Dayton-Springfield .....	431.2	438.8	440.6	.4	.5	.5	16.8	20.4	19.9
Toledo .....	283.0	291.0	293.2	.2	.2	.2	10.8	12.2	12.0
Youngstown-Warren .....	191.9	195.8	195.8	.6	.6	.6	7.4	9.4	8.8
<b>Oklahoma</b> .....	1,141.7	1,135.1	1,132.8	53.1	54.1	54.4	40.2	40.0	39.0
Enid .....	21.6	21.6	21.4	1.2	1.2	1.2	.8	.8	.8
Lawton .....	33.4	32.6	32.9	.3	.1	.1	1.3	1.2	1.2
Oklahoma City .....	409.7	403.6	403.4	12.3	11.7	11.7	13.9	14.8	14.6
Tulsa .....	301.8	301.4	299.9	17.5	17.1	17.3	12.5	11.9	11.7
<b>Oregon</b> .....	1,077.4	1,122.7	1,124.2	1.3	1.5	1.4	33.0	38.2	36.0
Eugene-Springfield .....	101.9	106.1	105.9	.2	.2	.2	3.0	3.8	3.6
Portland .....	536.5	560.8	581.7	.6	.6	.5	18.7	20.6	19.8
Salem .....	92.3	98.0	96.0	.1	.1	.1	2.6	3.1	2.8
<b>Pennsylvania</b> .....	4,878.5	5,017.5	5,029.5	32.6	31.7	31.5	218.6	243.3	236.9
Allentown-Bethlehem .....	267.6	273.4	272.8	.5	.5	.5	12.4	13.8	13.3
Altoona .....	49.9	51.2	51.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.9	3.1	2.9
Beaver County .....	50.4	50.9	51.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.0	4.1	4.2
Erie .....	111.7	112.5	113.2	.3	.3	.3	3.7	4.0	3.9
Harrisburg-Lebanon-Carlisle .....	289.8	298.2	297.8	.4	.4	.4	12.0	12.7	12.3
Johnstown .....	76.7	79.3	79.0	3.8	3.8	3.7	2.9	3.5	3.2
Lancaster .....	177.5	183.2	183.5	.4	.4	.4	9.6	11.0	11.1
Philadelphia PMSA .....	2,141.3	2,197.0	2,212.1	1.2	1.3	1.3	101.2	112.4	111.1
Philadelphia City .....	775.1	790.6	792.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	19.5	19.9	19.9
Pittsburgh .....	852.1	868.4	873.2	6.6	7.2	7.2	42.8	45.7	43.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>New Mexico</b> .....	37.9	40.5	39.5	29.5	29.1	29.2	129.3	131.5	132.1
Albuquerque .....	19.6	19.9	19.9	12.5	12.6	12.6	59.3	60.9	61.6
Las Cruces .....	3.7	4.0	3.5	1.3	1.3	1.3	7.8	7.9	7.9
Santa Fe .....	1.6	1.6	1.7	1.2	1.1	1.1	10.6	11.1	11.5
<b>New York</b> .....	1,245.6	1,226.6	1,226.3	410.0	412.3	414.9	1,724.1	1,733.5	1,754.2
Albany-Schenectady-Troy .....	48.9	47.4	47.7	16.8	16.6	16.7	87.4	88.6	90.3
Binghamton .....	37.1	37.3	37.5	4.1	4.3	4.3	25.8	26.7	27.3
Buffalo .....	76.4	76.2	76.4	21.8	22.3	22.4	109.3	110.5	112.3
Elmira .....	6.9	8.0	8.0	1.3	1.2	1.2	10.4	10.7	10.9
Glens Falls .....	10.2	10.4	10.4	1.3	1.4	1.3	10.4	11.1	11.1
Nassau-Suffolk .....	181.6	176.2	178.9	47.4	49.8	50.1	308.3	306.9	312.1
New York PMSA .....	476.7	472.0	471.6	245.2	243.0	244.7	778.6	774.0	781.4
New York City .....	391.7	386.2	385.8	219.6	217.1	218.7	650.2	646.1	651.1
Niagara Falls .....	24.7	23.8	23.7	3.7	3.9	3.8	17.9	18.8	19.0
Orange County .....	15.0	15.0	15.1	5.8	5.8	5.8	26.3	26.9	27.2
Poughkeepsie .....	31.6	30.0	30.1	3.4	3.3	3.3	21.7	24.5	25.1
Rochester .....	136.4	135.3	135.1	14.0	14.2	14.2	99.4	100.1	101.1
Rockland County .....	16.0	15.5	15.5	4.2	4.3	4.2	23.3	23.8	24.2
Syracuse .....	53.7	52.1	52.1	17.1	17.1	17.1	71.4	72.9	73.8
Utica-Rome .....	24.4	24.3	24.1	4.7	4.9	5.0	27.0	26.8	27.0
Westchester County .....	67.3	68.3	68.4	20.8	21.0	21.1	100.7	99.7	101.7
<b>North Carolina</b> .....	839.8	861.8	863.8	135.0	137.0	137.6	623.0	643.4	649.4
Asheville .....	20.0	20.1	20.1	3.6	3.7	3.8	17.5	17.4	17.5
Charlotte-Gastonia-Rock Hill .....	149.1	153.3	154.5	47.5	49.5	50.0	132.2	134.6	135.5
Greensboro-Winston-Salem-High Point .....	152.2	151.6	152.2	25.1	25.9	25.8	101.5	105.2	106.3
Raleigh-Durham .....	58.9	58.0	58.2	18.1	18.3	18.3	77.9	79.4	80.7
<b>North Dakota</b> .....	15.6	16.4	15.9	15.8	16.5	16.4	67.2	68.3	68.3
Bismarck .....	1.9	1.9	1.9	2.7	2.7	2.7	9.7	9.8	9.9
Fargo-Moorhead .....	5.0	4.9	4.9	4.3	4.5	4.4	20.7	21.1	21.3
Grand Forks .....	1.5	1.6	1.5	1.5	1.5	1.5	8.2	8.3	8.4
<b>Ohio</b> .....	1,105.8	1,094.3	1,098.3	211.2	213.4	212.9	1,099.7	1,118.5	1,128.9
Akron .....	66.7	65.0	65.3	13.2	13.6	13.6	68.1	68.9	67.6
Canton .....	43.0	42.4	42.5	5.9	6.1	6.1	39.3	40.6	40.9
Cincinnati .....	149.4	144.9	146.1	34.6	35.5	35.5	171.4	177.6	179.5
Cleveland .....	205.2	205.6	206.5	42.0	41.9	42.0	218.2	220.5	222.7
Columbus .....	106.1	102.7	102.4	28.4	29.7	30.0	162.5	166.2	168.9
Dayton-Springfield .....	106.3	104.1	104.2	15.0	15.1	15.0	98.0	99.3	100.5
Toledo .....	63.1	61.7	62.3	14.5	14.9	15.0	69.4	70.7	71.9
Youngstown-Warren .....	52.2	51.7	51.6	8.1	8.2	8.2	47.4	48.4	48.6
<b>Oklahoma</b> .....	159.7	159.2	159.8	63.2	61.9	61.8	280.8	273.4	275.4
Enid .....	1.5	1.6	1.6	2.2	2.1	2.0	6.1	6.1	6.0
Lawton .....	3.4	3.3	3.3	1.4	1.1	1.1	8.8	8.4	8.5
Oklahoma City .....	49.4	48.6	48.3	20.2	19.7	19.6	101.7	97.4	98.3
Tulsa .....	50.6	49.7	49.9	22.7	22.9	22.7	73.6	74.2	73.9
<b>Oregon</b> .....	195.9	206.3	204.1	58.3	58.2	58.2	276.3	264.3	267.2
Eugene-Springfield .....	18.6	19.2	19.0	4.1	4.1	4.1	26.1	26.8	26.9
Portland .....	88.6	94.1	93.4	33.1	34.4	34.4	144.0	148.2	149.7
Salem .....	12.9	15.4	13.5	2.6	2.5	2.5	21.4	22.1	22.1
<b>Pennsylvania</b> .....	1,037.9	1,047.7	1,047.7	244.9	248.1	248.9	1,130.1	1,164.4	1,180.7
Allentown-Bethlehem .....	77.7	76.4	75.2	14.3	14.6	14.1	60.6	61.8	62.8
Altoona .....	10.9	11.3	11.2	4.8	4.9	4.9	12.7	13.0	13.2
Beaver County .....	9.6	9.7	9.7	5.2	5.2	5.2	11.3	11.2	11.7
Erie .....	35.0	34.4	34.7	4.1	4.0	4.0	24.2	24.3	24.8
Harrisburg-Lebanon-Carlisle .....	51.0	52.3	52.4	18.3	18.8	18.8	66.3	68.6	68.9
Johnstown .....	12.7	12.9	13.0	5.1	5.0	4.9	16.2	16.5	16.6
Lancaster .....	59.8	59.5	59.2	7.2	7.5	7.3	42.8	44.6	45.1
Philadelphia PMSA .....	381.2	382.3	383.9	98.0	97.9	97.9	503.7	518.3	528.1
Philadelphia City .....	99.6	98.6	98.8	45.6	46.6	46.4	152.8	153.8	155.9
Pittsburgh .....	124.4	127.6	128.0	44.8	43.6	42.9	221.0	220.3	226.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>New Mexico</b> .....	26.9	27.3	27.5	117.4	122.1	121.6	141.5	139.7	140.8
Albuquerque .....	14.5	15.0	15.0	60.6	63.6	63.4	45.5	44.6	45.2
Las Cruces .....	1.6	1.8	1.6	6.2	6.3	6.4	18.7	16.5	16.7
Santa Fe .....	2.1	2.2	2.2	13.2	14.1	14.0	21.7	21.2	21.2
<b>New York</b> .....	782.9	792.8	793.2	2,172.1	2,255.1	2,262.3	1,406.0	1,426.9	1,440.6
Albany-Schenectady-Troy .....	21.6	22.4	22.4	95.6	99.6	99.8	109.7	110.7	111.5
Binghamton .....	3.9	3.8	3.8	21.3	22.2	22.1	21.5	21.4	21.8
Buffalo .....	24.9	25.7	25.8	108.8	113.5	113.3	72.9	74.7	75.3
Elmira .....	1.2	1.2	1.2	9.1	9.7	9.7	6.6	6.6	6.7
Glens Falls .....	1.9	1.9	1.9	9.3	10.0	9.6	9.2	9.2	9.3
Nassau-Suffolk .....	72.6	75.7	75.8	278.1	267.0	265.9	181.1	181.8	184.4
New York PMSA .....	561.5	576.0	576.6	1,240.5	1,263.7	1,274.4	661.9	661.6	665.3
New York City .....	531.1	546.5	547.1	1,099.5	1,120.7	1,131.3	560.8	580.9	583.2
Niagara Falls .....	1.8	1.8	1.8	16.3	16.8	16.7	12.4	12.4	12.5
Orange County .....	4.0	4.1	4.1	20.4	21.1	21.1	21.9	22.4	22.4
Poughkeepsie .....	4.2	4.5	4.5	25.5	26.0	26.1	24.5	24.4	24.6
Rochester .....	20.9	21.5	21.5	107.5	113.3	112.6	64.6	65.6	66.3
Rockland County .....	3.8	4.2	4.3	23.2	23.5	23.6	21.4	21.3	21.6
Syracuse .....	18.9	19.2	19.2	71.4	72.3	73.1	50.7	50.5	51.3
Utica-Rome .....	6.4	6.6	6.8	24.8	25.8	25.6	29.4	29.4	29.8
Westchester County .....	26.0	26.6	26.6	113.2	114.9	114.9	56.2	55.9	56.8
<b>North Carolina</b> .....	121.7	129.0	129.5	461.7	485.9	463.4	444.2	447.3	451.9
Asheville .....	2.7	2.7	2.7	16.0	17.1	16.9	12.5	13.0	13.0
Charlotte-Gastonia-Rock Hill .....	33.1	34.6	34.7	97.6	105.3	104.1	61.7	61.6	62.8
Greensboro-Winston-Salem-High Point .....	21.9	22.4	22.5	75.8	76.1	76.3	52.6	53.4	53.6
Raleigh-Durham .....	22.5	23.6	23.9	86.6	91.6	91.8	87.5	87.6	88.0
<b>North Dakota</b> .....	12.4	12.5	12.4	59.3	61.7	61.7	65.1	64.9	65.3
Bismarck .....	1.6	1.6	1.6	10.3	10.5	10.5	8.1	8.4	8.4
Fargo-Moorhead .....	4.3	4.5	4.5	18.7	19.2	19.4	14.1	14.2	14.4
Grand Forks .....	1.2	1.2	1.2	6.3	6.6	6.5	9.3	9.2	9.3
<b>Ohio</b> .....	236.0	245.3	245.8	1,016.7	1,073.4	1,071.0	696.1	699.2	707.6
Akron .....	10.2	10.6	10.6	55.4	59.2	56.7	43.9	44.5	44.7
Canton .....	6.5	6.6	6.5	33.9	35.0	34.6	18.4	18.4	18.7
Cincinnati .....	36.8	40.7	41.0	156.8	168.0	166.6	87.2	88.6	89.5
Cleveland .....	53.0	55.4	55.5	229.7	242.3	241.7	117.7	117.3	119.0
Columbus .....	54.7	57.3	57.6	150.1	162.3	162.6	119.7	121.1	122.2
Dayton-Springfield .....	17.5	17.6	17.6	103.6	108.9	109.1	73.6	72.6	73.7
Toledo .....	11.3	11.6	11.7	70.7	76.1	76.2	42.9	43.5	43.9
Youngstown-Warren .....	8.1	8.4	8.4	43.3	45.1	44.6	24.8	24.0	25.0
<b>Oklahoma</b> .....	62.2	60.7	60.7	223.7	226.6	227.2	256.8	257.2	254.5
Enid .....	1.0	.9	.9	5.1	5.4	5.4	3.7	3.5	3.5
Lawton .....	1.5	1.5	1.5	5.3	5.8	5.7	11.4	11.2	11.5
Oklahoma City .....	25.9	25.5	25.5	86.4	88.4	88.1	99.9	97.5	97.3
Tulsa .....	17.4	17.5	17.4	69.5	71.5	71.3	38.0	36.6	35.7
<b>Oregon</b> .....	70.7	73.2	72.9	235.2	249.1	249.5	206.7	211.9	214.9
Eugene-Springfield .....	4.5	4.7	4.5	22.2	23.6	23.8	23.2	23.5	23.8
Portland .....	43.6	45.5	45.3	130.2	138.2	136.5	77.7	79.2	80.3
Salem .....	5.4	5.5	5.5	16.5	19.2	19.1	28.6	30.1	30.4
<b>Pennsylvania</b> .....	281.5	266.6	267.6	1,241.4	1,298.1	1,294.1	691.5	695.4	701.9
Allentown-Bethlehem .....	10.5	11.0	11.0	61.6	65.4	65.3	30.0	30.3	30.6
Altoona .....	1.5	1.6	1.6	9.9	10.2	10.2	7.2	7.1	7.3
Beaver County .....	1.6	1.6	1.7	10.8	11.3	11.3	7.7	7.6	7.6
Erie .....	5.1	5.3	5.3	25.5	26.4	26.2	13.8	13.8	14.0
Harrisburg-Lebanon-Carlisle .....	16.0	16.6	16.7	59.3	61.6	61.0	66.5	67.0	67.3
Johnstown .....	4.9	5.2	5.1	16.6	19.5	19.6	12.5	12.9	12.9
Lancaster .....	6.5	6.9	6.9	35.4	37.4	37.2	15.6	15.9	16.3
Philadelphia PMSA .....	155.4	157.6	157.6	600.4	627.9	630.5	300.2	299.1	301.7
Philadelphia City .....	70.0	72.1	71.5	247.7	256.1	256.3	139.9	141.5	141.9
Pittsburgh .....	52.0	52.9	52.8	256.9	265.7	265.2	103.6	105.4	107.0

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	148.0	152.8	152.4	(?)	(?)	(?)	6.1	7.1	6.9
Scranton-Wilkes-Barre .....	285.6	291.1	290.9	0.8	0.7	0.6	12.1	12.6	12.2
Sharon .....	40.6	42.5	42.8	.2	.2	.2	1.3	1.7	1.6
State College .....	52.8	54.5	54.5	.2	.2	.2	1.9	2.4	2.2
Williamsport .....	48.5	50.9	51.4	(?)	(?)	(?)	2.0	2.2	2.1
York .....	166.9	173.2	173.8	.4	.4	.5	8.8	10.1	10.0
<b>Rhode Island</b> .....	453.1	455.4	456.4	.2	.2	.2	17.9	19.5	19.2
Pawtucket-Woonsocket-Attleboro .....	133.7	135.8	135.7	.1	.1	.1	4.2	4.8	4.7
Providence .....	321.3	321.8	322.2	.1	.1	.1	15.4	16.7	16.4
<b>South Carolina</b> .....	1,353.9	1,407.0	1,409.7	1.6	1.6	1.6	88.4	90.9	90.5
Charleston .....	183.9	189.7	190.7	(!)	(!)	(!)	14.5	14.9	15.0
Columbia .....	214.3	219.9	221.3	(!)	(!)	(!)	14.4	14.7	15.0
Greenville-Spartanburg .....	303.2	308.4	309.1	(!)	(!)	(!)	22.9	22.1	22.0
<b>South Dakota</b> .....	256.1	258.9	257.6	2.6	2.5	2.5	10.6	11.5	10.5
Rapid City .....	34.2	34.5	34.2	.3	.3	.3	2.6	2.4	2.3
Sioux Falls .....	63.4	64.2	63.7	(!)	(!)	(!)	2.3	2.7	2.5
<b>Tennessee</b> .....	1,974.1	2,047.6	2,050.5	7.5	6.8	6.9	95.1	102.7	101.9
Chattanooga .....	181.2	185.1	186.3	.9	1.0	1.0	7.4	7.5	7.6
Johnson City-Kingsport-Bristol .....	153.5	160.3	161.6	.2	.1	.1	5.8	6.3	6.5
Knoxville .....	241.5	246.9	244.2	2.2	1.7	1.7	12.2	11.6	11.5
Memphis .....	412.3	422.1	422.8	.1	.1	.1	19.5	20.1	20.4
Nashville .....	480.4	457.7	454.7	.9	1.0	1.0	29.8	28.9	27.9
<b>Texas</b> .....	6,536.9	6,567.8	6,562.8	191.5	194.1	194.3	392.5	368.4	365.9
Abilene .....	50.1	50.6	50.9	2.3	2.2	2.2	2.3	2.3	2.3
Amarillo .....	78.7	78.9	79.0	1.3	1.2	1.2	4.2	4.3	4.2
Austin .....	363.6	359.1	356.6	1.0	.9	.9	22.6	19.1	19.0
Beaumont-Port Arthur .....	129.2	128.1	128.6	1.5	1.6	1.7	7.5	7.3	7.4
Brazoria .....	56.8	57.7	57.9	1.2	1.3	1.3	5.9	5.8	6.0
Brownsville-Harlingen .....	65.7	64.1	64.3	.1	.1	.1	2.8	2.5	2.5
Bryan-College Station .....	51.7	49.3	49.7	.8	.9	.9	2.0	2.2	2.2
Corpus Christi .....	128.4	125.9	126.8	6.4	5.3	5.3	8.3	7.2	7.2
Dallas .....	1,334.4	1,308.7	1,310.1	19.1	18.8	18.8	74.1	60.2	58.9
El Paso .....	184.3	186.2	186.2	.2	.1	.1	9.8	9.3	9.5
Ft. Worth-Arlington .....	513.4	520.3	519.2	3.4	3.3	3.3	29.8	28.9	28.3
Galveston-Texas City .....	69.5	69.3	68.4	.5	.4	.4	3.8	3.2	2.9
Houston .....	1,384.8	1,385.3	1,385.7	65.2	64.5	64.4	87.6	83.9	82.0
Killeen-Temple .....	68.6	68.8	69.3	.1	.1	.1	3.7	3.7	3.8
Laredo .....	35.1	35.5	35.8	1.7	2.3	2.3	1.3	1.2	1.3
Longview-Marshall .....	65.5	64.4	64.6	3.6	3.6	3.6	3.1	2.8	2.8
Lubbock .....	91.7	91.5	92.0	.3	.3	.3	3.4	2.7	2.6
McAllen-Edinburg-Mission .....	87.9	91.3	92.2	1.2	.9	.9	4.5	4.3	4.3
Midland .....	44.6	44.3	44.4	8.0	9.1	9.2	1.7	1.6	1.6
Odessa .....	44.0	44.9	44.9	8.1	6.8	6.8	2.4	2.3	2.4
San Angelo .....	37.0	37.0	37.2	.6	.6	.6	2.0	1.7	1.7
San Antonio .....	497.3	497.9	499.9	2.6	2.5	2.5	33.1	31.1	31.1
Sherman-Denison .....	38.3	38.3	38.3	.2	.1	.1	1.9	1.7	1.7
Texarkana .....	45.4	45.3	45.4	.1	.1	.1	1.6	1.5	1.5
Tyler .....	61.6	59.7	59.7	1.8	1.9	1.9	2.9	2.5	2.5
Victoria .....	28.3	28.2	28.2	1.8	1.8	1.8	1.9	1.9	1.9
Waco .....	79.7	79.1	78.9	.1	.1	.1	3.9	3.8	3.9
Wichita Falls .....	50.1	50.2	50.2	2.0	2.0	2.0	2.0	2.0	2.0
<b>Utah</b> .....	644.2	647.4	650.2	8.0	8.3	8.3	32.7	27.5	26.4
Provo-Orem .....	74.7	76.8	77.2	(!)	(!)	(!)	2.9	2.7	2.7
Salt Lake City-Ogden .....	450.3	453.3	455.3	2.1	2.6	2.6	23.8	20.4	19.6
<b>Vermont</b> .....	238.4	242.7	241.6	.6	.6	.6	15.8	15.7	15.8
Barre-Montpelier .....	31.8	33.6	33.5	.2	.2	.2	2.1	2.2	2.2
Burlington .....	73.3	75.3	75.4	(!)	(!)	(!)	4.2	4.5	4.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	48.8	50.3	49.4	6.7	7.0	6.9	32.8	32.7	33.4
Scranton-Wilkes-Barre .....	72.8	71.7	71.2	15.1	15.7	15.7	64.2	65.3	66.1
Sharon .....	9.0	9.5	9.8	1.9	1.8	1.8	10.9	11.4	11.5
State College .....	7.2	7.1	7.2	1.3	1.3	1.3	9.7	9.9	9.8
Williamsport .....	15.4	16.8	17.0	1.9	1.8	1.8	10.9	11.4	11.5
York .....	57.9	59.7	60.2	7.0	7.4	7.4	40.1	40.0	40.3
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	121.5	121.3	121.5	14.9	15.3	15.2	101.9	102.0	102.9
Providence .....	56.5	56.4	56.4	3.5	3.9	3.9	31.8	31.9	32.2
Providence .....	76.4	75.6	75.7	11.6	11.8	11.7	70.3	71.1	71.6
<b>South Carolina</b>									
Charleston .....	364.1	370.2	371.6	56.5	58.9	59.2	297.1	313.6	315.5
Columbia .....	20.5	21.0	21.2	9.2	9.5	9.5	45.3	46.8	47.2
Columbia .....	28.0	29.3	29.7	10.0	10.7	10.6	46.7	47.2	47.5
Greenville-Spartanburg .....	98.6	99.0	98.9	10.7	11.5	11.5	69.2	70.9	71.7
<b>South Dakota</b>									
Rapid City .....	29.1	30.0	30.5	12.7	12.7	12.7	66.1	66.7	66.8
Rapid City .....	3.1	3.2	3.2	1.8	1.9	1.8	9.9	10.1	9.9
Sioux Falls .....	8.7	8.6	8.7	4.7	4.7	4.8	16.6	16.7	16.5
<b>Tennessee</b>									
Chattanooga .....	494.5	504.9	505.3	99.0	100.3	100.1	482.2	483.2	486.1
Chattanooga .....	43.8	44.7	44.8	8.7	8.4	8.3	41.8	43.1	44.1
Johnson City-Kingsport-Bristol .....	51.1	52.7	52.8	6.3	6.3	6.4	34.0	35.4	36.2
Knoxville .....	50.6	51.7	50.5	9.1	9.8	9.6	59.7	61.0	59.7
Memphis .....	51.5	54.0	54.2	36.6	37.8	37.6	114.2	116.7	117.4
Nashville .....	90.0	88.0	87.7	21.9	23.1	22.8	110.7	110.3	110.7
<b>Texas</b>									
Abilene .....	947.9	974.4	978.4	374.9	383.5	385.6	1,684.9	1,670.5	1,674.9
Abilene .....	4.9	4.7	4.7	2.5	2.6	2.6	14.0	14.3	14.4
Amarillo .....	9.9	9.6	9.6	6.0	5.7	5.7	23.4	23.7	23.9
Austin .....	40.2	39.7	39.7	11.2	10.9	10.9	82.0	79.6	79.9
Beaumont-Port Arthur .....	25.1	24.1	24.1	9.6	9.4	9.4	32.1	31.6	31.9
Brazoria .....	15.2	15.1	15.0	2.2	2.3	2.3	11.0	11.1	11.1
Brownsville-Harlingen .....	9.7	9.4	9.3	3.2	3.0	3.0	17.8	17.1	17.2
Bryan-College Station .....	2.8	3.0	3.0	1.6	1.5	1.5	11.1	10.9	11.0
Corpus Christi .....	11.6	11.5	11.4	7.1	7.0	6.9	34.1	33.6	33.9
Dallas .....	225.0	222.9	223.9	86.8	87.2	87.3	360.8	352.1	354.4
El Paso .....	35.2	36.2	35.8	10.1	10.0	10.0	45.6	45.7	46.0
Ft. Worth-Arlington .....	114.8	117.7	117.4	27.2	28.2	28.3	137.2	134.0	134.0
Galveston-Texas City .....	8.6	9.0	8.9	4.7	4.3	4.1	13.5	13.6	13.5
Houston .....	148.3	153.1	153.0	92.7	90.3	90.5	360.4	350.0	352.8
Killeen-Temple .....	8.5	8.6	8.5	2.8	2.6	2.6	16.7	16.2	16.6
Laredo .....	1.8	1.8	1.9	4.0	4.1	4.2	10.4	9.9	9.9
Longview-Marshall .....	14.9	15.0	15.1	3.1	3.1	3.1	17.5	17.0	17.0
Lubbock .....	7.4	7.4	7.5	4.6	4.5	4.6	28.2	28.5	28.6
McAllen-Edinburg-Mission .....	12.2	13.3	13.8	2.8	2.9	2.9	25.8	26.0	26.2
Midland .....	3.1	2.9	2.8	2.2	2.1	2.1	10.7	10.8	10.9
Odessa .....	3.7	3.7	3.7	2.2	2.1	2.1	13.2	13.3	13.4
San Angelo .....	6.0	5.9	5.9	3.2	3.0	3.0	9.2	9.4	9.6
San Antonio .....	47.6	46.4	46.7	18.1	18.1	18.0	131.3	132.4	132.5
Sherman-Denison .....	11.1	11.3	11.3	2.1	2.1	2.1	8.8	8.7	8.7
Texarkana .....	7.2	7.3	7.2	1.8	1.7	1.7	11.1	11.3	11.4
Tyler .....	11.2	10.9	10.9	2.7	2.6	2.6	16.7	16.0	15.9
Victoria .....	3.0	3.2	3.1	1.5	1.4	1.4	8.1	7.9	8.0
Waco .....	15.4	15.0	14.7	3.5	3.4	3.4	19.5	19.4	19.6
Wichita Falls .....	8.1	7.9	7.9	2.6	2.6	2.6	12.4	12.5	12.6
<b>Utah</b>									
Provo-Orem .....	91.1	94.3	94.5	37.4	38.4	38.5	158.3	154.8	157.2
Provo-Orem .....	10.3	10.5	10.6	2.5	2.7	2.7	16.3	16.2	16.5
Salt Lake City-Ogden .....	61.9	62.7	62.8	28.8	29.2	29.3	116.5	115.1	117.6
<b>Vermont</b>									
Barre-Montpelier .....	50.5	49.6	49.7	9.8	10.3	10.2	54.2	56.3	56.0
Barre-Montpelier .....	4.5	4.6	4.7	.8	.8	.8	6.8	7.3	7.3
Burlington .....	16.7	16.9	17.0	3.0	3.2	3.2	16.7	16.6	16.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	7.4	7.9	7.9	29.1	30.4	30.3	17.1	17.4	17.6
Scranton-Wilkes-Barre .....	12.1	12.8	12.8	88.8	70.3	69.8	41.7	42.0	42.5
Sharon .....	1.4	1.3	1.3	10.5	11.5	11.5	5.4	5.1	5.1
State College .....	1.6	1.7	1.7	9.0	9.6	9.6	21.9	22.3	22.5
Williamsport .....	2.2	2.3	2.3	9.5	9.8	10.0	6.6	6.6	6.7
York .....	4.8	5.1	5.1	29.7	32.3	32.1	18.2	18.2	18.2
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	25.1	25.4	25.5	112.6	113.7	113.5	59.0	58.0	58.4
Providence .....	3.6	3.9	3.9	24.1	24.9	24.5	9.9	9.9	10.0
	21.6	21.8	21.6	81.8	81.7	81.6	44.1	43.2	43.5
<b>South Carolina</b>									
Charleston .....	61.5	65.0	65.0	224.1	240.7	238.8	260.8	266.1	267.5
Columbia .....	8.5	8.7	8.5	36.3	38.5	38.5	49.5	50.2	50.7
Greenville-Spartanburg .....	17.3	18.1	17.9	39.1	39.8	39.9	58.5	59.7	60.3
	11.5	11.5	11.5	49.1	50.9	50.8	40.9	42.2	42.4
<b>South Dakota</b>									
Rapid City .....	14.0	14.2	14.1	59.8	61.7	60.9	61.2	59.5	59.6
Sioux Falls .....	1.6	1.7	1.6	8.0	8.3	8.2	6.6	6.7	6.8
	5.8	5.8	5.7	17.6	18.3	18.2	7.7	7.4	7.2
<b>Tennessee</b>									
Chattanooga .....	94.2	97.6	97.2	397.4	417.8	417.6	324.2	334.3	335.4
Johnson City-Kingsport-Bristol .....	11.5	12.1	11.8	34.5	34.8	34.7	32.6	33.5	34.0
Knoxville .....	4.8	4.9	4.9	26.8	28.5	28.6	25.0	28.1	28.1
Memphis .....	6.4	8.7	8.7	48.0	51.9	51.5	51.2	50.5	51.0
Nashville .....	23.3	23.8	23.5	98.9	99.8	99.8	70.2	70.0	69.8
	30.7	30.8	30.5	109.4	107.6	106.0	67.0	68.0	68.1
<b>Texas</b>									
Abilene .....	442.8	435.7	434.7	1,366.0	1,383.3	1,383.2	1,138.4	1,157.9	1,185.8
Amarillo .....	2.6	2.6	2.6	13.2	13.4	13.4	8.3	8.5	8.7
Austin .....	4.3	4.2	4.3	16.3	16.5	16.4	13.3	13.7	13.7
Beaumont-Port Arthur .....	25.7	25.0	24.8	83.8	84.3	83.8	97.3	99.6	99.8
Brazoria .....	5.8	5.5	5.5	27.5	28.4	28.3	20.3	20.2	20.3
Brownsville-Harlingen .....	2.0	2.1	2.1	7.8	8.3	8.2	11.5	11.6	11.9
Bryan-College Station .....	3.3	3.3	3.4	13.4	13.7	13.7	15.4	15.1	15.2
Corpus Christi .....	1.7	1.7	1.7	7.7	6.0	6.1	24.0	21.1	21.3
Dallas .....	6.8	8.7	8.7	26.9	27.7	27.6	27.2	27.9	27.8
El Paso .....	133.5	129.0	128.9	288.4	290.4	289.1	148.7	148.1	148.8
Ft. Worth-Arlington .....	9.8	9.9	9.9	35.1	35.7	35.8	38.5	39.4	39.2
Galveston-Texas City .....	28.4	29.0	28.6	109.8	114.5	114.2	83.2	84.7	85.1
Houston .....	4.6	4.3	4.2	12.9	13.4	13.3	20.7	21.1	21.1
Killeen-Temple .....	100.3	95.6	95.3	340.6	356.8	355.6	189.7	191.1	192.1
Laredo .....	3.0	2.9	2.9	13.9	14.4	14.4	19.9	20.3	20.4
Longview-Marshall .....	1.6	1.6	1.6	8.0	8.1	8.1	8.3	8.5	8.5
Lubbock .....	3.4	2.9	2.9	11.5	11.5	11.6	8.4	8.5	8.5
McAllen-Edinburg-Mission .....	5.5	5.4	5.4	20.8	20.8	21.0	21.5	21.9	22.0
Midland .....	4.0	3.7	3.8	13.7	14.1	14.1	23.7	26.1	26.2
Odessa .....	2.9	2.7	2.7	8.6	8.6	8.8	6.4	6.3	6.3
San Angelo .....	1.7	1.7	1.8	7.2	7.3	7.3	7.5	7.7	7.8
San Antonio .....	1.8	1.8	1.8	7.6	7.9	7.9	6.6	6.7	6.7
Sherman-Denison .....	36.9	39.2	39.2	116.1	118.4	118.7	109.6	109.8	111.2
Texarkana .....	1.5	1.4	1.4	7.5	7.9	7.9	5.2	5.1	5.1
Tyler .....	1.9	1.9	1.9	9.0	9.1	9.1	12.7	12.4	12.5
Victoria .....	3.7	3.8	3.8	13.7	13.2	13.2	8.9	9.0	9.1
Waco .....	1.5	1.5	1.5	6.0	5.9	5.9	4.5	4.6	4.6
Wichita Falls .....	4.6	4.8	4.8	19.9	20.0	19.6	12.6	12.6	12.6
	2.4	2.4	2.4	11.1	11.2	11.2	9.5	9.6	9.5
<b>Utah</b>									
Provo-Orem .....	33.2	33.6	33.7	139.8	148.5	147.7	143.6	141.9	143.8
Salt Lake City-Ogden .....	2.3	2.3	2.3	26.8	28.5	28.4	13.7	13.8	14.0
	27.5	27.9	27.7	94.9	100.0	99.3	94.8	95.4	96.3
<b>Vermont</b>									
Barre-Montpelier .....	11.2	12.0	12.0	55.7	57.4	58.6	40.6	40.8	40.7
Burlington .....	2.9	2.9	2.9	6.5	7.4	7.2	8.0	8.2	8.2
	3.2	3.5	3.6	17.7	18.7	18.3	11.8	12.0	12.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Virginia</b> .....	2,620.2	2,666.9	2,681.9	15.9	15.7	15.8	173.9	176.5	175.1
Bristol .....	30.6	31.5	31.8	.1	.1	.1	.9	.8	.8
Charlottesville .....	63.9	64.8	65.4	.1	.1	.1	3.5	3.7	3.6
Danville .....	39.9	39.8	40.1	.1	.1	.1	1.4	1.3	1.3
Lynchburg .....	71.7	72.0	71.7	.1	.1	.1	3.3	3.4	3.4
Norfolk-Virginia Beach-Newport News .....	540.6	549.3	550.3	.1	.1	.1	38.0	36.6	36.4
Northern Virginia .....	673.3	694.4	699.9	.5	.4	.4	48.5	48.8	48.2
Richmond-Petersburg .....	423.2	431.9	433.9	.3	.4	.4	25.3	27.0	26.9
Roanoke .....	119.6	121.8	122.1	.2	.1	.1	7.0	7.5	7.4
<b>Washington</b> .....	1,796.9	1,878.6	1,872.3	2.8	3.1	3.0	86.6	97.1	92.4
Seattle .....	907.2	945.9	949.9	.6	.6	.6	46.1	48.7	46.9
<b>West Virginia</b> .....	600.8	608.5	609.9	38.1	36.8	36.7	24.5	26.0	25.1
Charleston .....	108.3	108.0	108.0	2.1	2.3	2.3	4.9	5.0	4.8
Huntington-Ashland .....	102.3	101.9	102.0	1.0	1.0	1.0	3.8	4.1	3.9
Parkersburg-Marietta .....	58.9	60.1	60.0	.8	.8	.7	2.9	2.9	2.8
Wheeling .....	56.7	58.0	58.1	2.4	2.4	2.5	1.6	2.0	1.8
<b>Wisconsin</b> .....	2,050.7	2,101.5	2,102.3	2.2	2.4	2.3	67.6	70.9	69.4
Appleton-Oshkosh-Neenah .....	141.1	147.1	147.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	6.5	6.5
Eau Claire .....	56.0	56.1	56.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.4	1.3
Green Bay .....	92.8	94.8	95.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.0	3.1
Janesville-Beloit .....	53.7	54.4	54.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.2	1.1
Kenosha .....	37.8	42.4	41.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	.8	.7
La Crosse .....	49.4	51.7	51.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.2	1.3
Madison .....	195.1	202.3	203.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.9	6.6	6.8
Milwaukee .....	689.1	703.1	707.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.9	21.9	21.7
Racine .....	68.8	70.0	70.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.8	2.5
Sheboygan .....	45.3	46.6	46.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.0	1.0
Wausau .....	45.2	47.4	47.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.5	1.6
<b>Wyoming</b> .....	193.4	193.5	190.4	18.1	19.3	19.1	13.7	13.6	12.3
<b>Puerto Rico</b> .....	723.8	746.3	748.7	.8	.8	.8	30.4	34.3	34.3
Caguas .....	43.9	48.0	46.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	51.8	53.1	53.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	45.9	47.3	47.4	.1	.1	.1	3.1	3.7	4.0
San Juan .....	446.9	459.2	461.0	.5	.5	.5	23.4	26.1	26.0
<b>Virgin Islands</b> .....	37.7	37.9	38.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.2	2.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Virginia</b> .....	428.1	427.0	427.2	140.3	142.1	142.7	605.4	613.6	624.0
Bristol .....	9.4	9.8	10.0	1.2	1.2	1.2	8.3	8.8	8.9
Charlottesville .....	8.8	8.7	8.8	2.2	2.3	2.4	12.4	12.3	12.4
Danville .....	17.0	17.0	17.0	1.0	1.0	1.0	8.2	8.4	8.5
Lynchburg .....	24.3	24.0	23.6	2.9	2.9	2.9	13.6	13.5	13.6
Norfolk-Virginia Beach-Newport News .....	69.0	66.8	66.7	25.9	25.8	25.8	135.1	139.8	141.0
Northern Virginia .....	35.2	34.4	34.8	47.3	49.4	49.6	159.0	159.8	163.4
Richmond-Petersburg .....	62.7	63.5	63.5	22.1	22.9	22.9	103.4	103.2	105.6
Roanoke .....	20.6	20.7	20.7	8.9	8.8	8.8	32.5	33.0	33.4
<b>Washington</b> .....	305.1	324.0	323.1	96.0	100.8	99.5	443.7	486.9	469.2
Seattle .....	175.3	186.8	188.2	58.5	59.6	59.0	225.9	236.3	238.8
<b>West Virginia</b> .....	87.1	87.1	86.6	36.5	36.1	35.8	139.3	141.9	144.2
Charleston .....	12.5	11.4	11.4	8.2	8.6	8.7	28.3	28.4	28.7
Huntington-Ashland .....	19.9	19.3	19.2	7.5	7.2	7.1	26.3	26.1	26.4
Parkersburg-Marietta .....	14.1	14.4	14.2	2.0	2.0	2.0	14.4	14.7	14.9
Wheeling .....	6.3	7.2	7.3	3.0	3.1	3.1	15.8	15.9	16.0
<b>Wisconsin</b> .....	513.8	529.5	528.1	94.4	95.4	95.1	491.3	508.9	509.6
Appleton-Oshkosh-Neenah .....	48.1	50.4	50.3	5.4	5.6	5.7	31.3	31.6	31.6
Eau Claire .....	10.4	10.0	10.0	2.9	3.3	3.2	16.3	16.9	17.3
Green Bay .....	24.5	24.6	24.3	6.6	6.8	6.8	24.1	24.9	25.3
Janesville-Beloit .....	17.0	17.1	17.1	1.9	1.8	1.8	13.6	14.0	14.0
Kenosha .....	11.3	15.3	14.2	1.4	1.4	1.4	8.5	8.7	8.6
La Crosse .....	10.1	10.4	10.8	2.3	2.3	2.3	13.8	14.7	14.9
Madison .....	21.6	22.9	23.0	6.6	6.9	6.8	44.6	45.8	46.8
Milwaukee .....	167.7	168.4	170.0	35.1	35.6	35.7	160.3	166.4	168.4
Racine .....	24.4	24.2	24.5	2.4	2.5	2.4	16.1	16.9	16.9
Sheboygan .....	19.0	19.9	19.5	1.5	1.5	1.5	8.5	8.9	9.0
Wausau .....	12.1	13.2	13.4	2.7	2.9	2.9	11.5	12.0	12.1
<b>Wyoming</b> .....	8.3	8.9	8.8	14.0	14.0	13.9	45.1	44.8	44.3
<b>Puerto Rico</b> .....	149.0	156.8	155.9	16.0	14.5	14.3	128.6	129.9	132.4
Caguas .....	14.9	16.3	16.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	8.3	8.7
Mayaguez .....	20.3	20.8	20.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.0	7.2
Ponce .....	8.8	8.8	8.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.7	7.5	7.7
San Juan .....	64.8	66.1	66.4	12.1	11.7	11.3	88.3	90.8	92.6
<b>Virgin Islands</b> .....	1.8	2.0	2.0	2.5	2.5	2.5	8.4	8.5	8.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Virginia</b> .....	133.8	138.5	139.1	590.7	609.5	608.4	532.1	543.9	549.5
Bristol .....	.9	.9	.9	4.5	4.7	4.7	5.4	5.2	5.3
Charlottesville .....	3.0	3.2	3.3	10.9	11.3	11.2	23.0	23.3	23.7
Danville .....	1.1	1.1	1.1	5.8	5.6	5.6	5.3	5.3	5.4
Lynchburg .....	3.3	3.4	3.4	14.4	14.9	14.9	9.9	9.8	9.8
Norfolk-Virginia Beach-Newport News .....	24.8	25.2	25.5	121.8	128.6	127.4	126.0	126.3	127.4
Northern Virginia .....	41.4	44.5	44.5	202.8	208.2	209.1	138.7	149.0	150.1
Richmond-Petersburg .....	33.6	34.7	34.5	85.1	89.8	88.7	90.6	90.4	91.6
Roanoke .....	8.0	8.4	8.5	26.8	27.4	27.3	15.7	15.8	16.0
<b>Washington</b> .....	105.7	107.8	107.5	399.6	419.8	418.2	357.4	359.3	359.4
Seattle .....	66.7	87.2	87.3	202.5	218.1	218.8	131.6	128.6	130.3
<b>West Virginia</b> .....	24.1	24.5	24.5	121.9	127.6	127.1	129.3	128.5	129.9
Charleston .....	6.0	6.0	6.0	24.9	25.2	25.0	21.4	21.1	21.1
Huntington-Ashland .....	4.3	4.3	4.3	20.2	20.3	20.3	19.3	19.6	19.8
Parkersburg-Marietta .....	2.1	2.2	2.2	13.0	13.5	13.4	9.8	9.6	9.8
Wheeling .....	2.6	2.6	2.6	15.7	15.4	15.3	9.3	9.4	9.5
<b>Wisconsin</b> .....	109.2	111.9	111.9	436.5	455.3	454.0	335.8	329.1	331.8
Appleton-Oshkosh-Neenah .....	7.1	7.3	7.3	26.3	28.7	28.5	17.3	18.9	17.2
Eau Claire .....	1.8	1.9	1.9	11.7	12.7	12.6	11.0	9.9	10.0
Green Bay .....	3.2	3.4	3.4	20.0	21.3	21.4	11.0	10.8	11.0
Janesville-Beloit .....	1.6	1.7	1.6	11.3	11.5	12.1	6.9	6.9	6.8
Kenosha .....	1.1	1.2	1.2	8.2	8.5	8.5	8.3	6.5	6.4
La Crosse .....	1.5	1.5	1.5	13.1	13.9	13.8	7.5	7.6	7.5
Madison .....	17.1	17.9	18.0	39.8	42.3	42.0	59.1	59.7	59.7
Milwaukee .....	47.6	48.3	48.5	173.2	181.2	181.2	83.8	80.7	81.3
Racine .....	2.2	2.0	2.0	13.0	13.4	13.3	8.3	8.2	8.4
Sheboygan .....	2.1	2.1	2.1	7.2	7.6	7.6	5.6	5.5	5.6
Wausau .....	3.4	3.4	3.4	7.8	8.2	8.1	8.1	6.0	6.1
<b>Wyoming</b> .....	8.0	7.8	7.7	31.9	32.4	31.3	54.2	52.7	53.0
<b>Puerto Rico</b> .....	33.2	34.5	34.5	101.2	105.9	105.8	264.5	269.6	270.6
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.9	15.2	15.2
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.2	16.5	16.7
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.0	8.0	7.9	15.3	15.8	15.8
San Juan .....	27.0	28.0	28.0	73.6	75.0	74.9	157.1	160.9	161.3
<b>Virgin Islands</b> .....	1.5	1.5	1.6	8.0	8.6	8.8	12.6	12.6	12.6

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

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1986 benchmarks.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.44	524.97	37.4	12.47	468.38
1987 <sup>a</sup> .....	34.8	8.98	312.50	42.3	12.44	526.21	37.8	12.66	478.55
<b>Monthly data, not seasonally adjusted</b>									
<b>1986:</b>									
December .....	34.8	\$8.86	\$308.33	42.4	\$12.63	\$535.51	36.8	\$12.77	\$469.94
<b>1987:</b>									
January .....	34.4	8.90	306.16	42.5	12.66	538.05	37.2	12.58	467.98
February .....	34.5	8.92	307.74	42.0	12.56	527.52	36.8	12.51	460.37
March .....	34.6	8.92	308.63	41.8	12.51	522.92	37.4	12.59	470.87
April .....	34.6	8.91	308.29	41.8	12.43	519.57	37.4	12.55	469.37
May .....	34.8	8.93	310.76	42.4	12.42	526.61	38.5	12.60	485.10
June .....	35.0	8.92	312.20	42.4	12.44	527.46	38.1	12.61	480.44
July .....	35.1	8.91	312.74	42.1	12.31	518.25	38.6	12.57	485.20
August .....	35.3	8.94	315.56	42.4	12.32	522.37	38.6	12.67	489.06
September .....	34.7	9.06	314.38	42.1	12.43	523.30	36.4	12.77	464.83
October .....	34.9	9.09	317.24	42.7	12.34	526.92	38.8	12.79	496.25
November <sup>b</sup> .....	34.8	9.14	318.07	42.5	12.46	529.55	37.1	12.81	475.25
December <sup>b</sup> .....	34.9	9.13	318.64	42.8	12.46	533.29	37.8	12.81	484.22

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.58	291.06
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.4	9.35	359.04
1987 <sup>p</sup> .....	41.0	9.91	9.48	406.31	39.1	12.01	469.59	38.2	9.61	367.10
<b>Monthly data, not seasonally adjusted</b>										
<b>1986:</b>										
December .....	41.5	\$9.85	\$9.42	\$408.78	39.1	\$11.90	\$465.29	38.4	\$9.47	\$363.65
<b>1987:</b>										
January .....	40.8	9.84	9.44	401.47	38.5	11.89	457.77	38.1	9.49	361.57
February .....	40.8	9.84	9.44	401.47	39.0	11.93	465.27	37.9	9.55	361.95
March .....	40.9	9.85	9.44	402.87	38.9	11.90	462.91	37.9	9.53	361.19
April .....	40.4	9.87	9.48	398.75	38.8	11.94	463.27	38.1	9.53	363.09
May .....	40.9	9.87	9.45	403.68	39.0	11.95	466.05	38.3	9.57	366.53
June .....	41.1	9.87	9.44	405.66	39.1	11.91	465.68	38.4	9.57	367.49
July .....	40.6	9.87	9.46	400.72	39.4	12.00	472.80	38.3	9.57	366.53
August .....	40.9	9.86	9.42	403.27	39.6	12.04	476.78	38.4	9.62	369.41
September .....	40.8	10.00	9.53	408.00	39.2	12.09	473.93	38.1	9.67	368.43
October .....	41.3	9.95	9.49	410.94	39.3	12.09	475.14	38.4	9.67	371.33
November <sup>p</sup> .....	41.4	10.01	9.55	414.41	39.3	12.19	479.07	38.3	9.75	373.43
December <sup>p</sup> .....	41.9	10.08	9.60	422.35	39.1	12.16	475.46	38.4	9.75	374.40

See footnotes at end of table.



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
	Annual averages								
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.35	303.94	32.5	8.16	265.20
1987 <sup>p</sup> .....	29.3	6.12	179.32	36.3	8.75	317.63	32.5	8.47	275.28
	Monthly data, not seasonally adjusted								
<b>1986:</b>									
December .....	29.4	\$6.07	\$178.46	36.5	\$8.48	\$309.52	32.4	\$8.32	\$269.57
<b>1987:</b>									
January .....	28.3	6.09	172.35	36.3	8.60	312.18	32.2	8.37	269.51
February .....	28.7	6.09	174.78	36.4	8.75	318.50	32.4	8.43	273.13
March .....	28.9	6.08	175.71	36.3	8.72	316.54	32.4	8.41	272.48
April .....	29.2	6.09	177.83	36.3	8.71	316.17	32.3	8.40	271.32
May .....	29.3	6.09	178.44	36.3	8.72	316.54	32.4	8.38	271.51
June .....	29.6	6.08	179.97	36.4	8.68	315.95	32.6	8.35	272.21
July .....	30.0	6.07	182.10	36.2	8.69	314.58	32.8	8.33	273.22
August .....	30.3	6.06	183.62	36.4	8.81	320.68	32.9	8.40	276.36
September .....	29.6	6.20	183.52	36.0	8.79	316.44	32.4	8.55	277.02
October .....	29.2	6.16	179.87	36.2	8.81	318.92	32.5	8.61	279.83
November <sup>p</sup> .....	29.0	6.19	179.51	36.4	8.92	324.69	32.5	8.70	282.75
December <sup>p</sup> .....	29.3	6.17	180.78	36.1	8.85	319.49	32.5	8.72	283.40

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

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently

projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision. August and September data for average hourly and weekly earnings in transportation and public utilities have been corrected. Also see page 8.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>2</sup>	Dec. 1987 <sup>2</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>2</sup>	Dec. 1987 <sup>2</sup>
<b>Total private</b> .....		34.7	34.8	34.9	34.8	34.9					
<b>Mining</b> .....		41.4	42.4	42.7	42.5	42.8					
Metal mining .....	10	41.0	41.2	41.9	42.0						
Iron ores .....	101	40.4	39.6	41.3	41.5						
Copper ores .....	102	41.9	41.8	42.5	42.6						
Coal mining .....	11,12	39.7	42.3	42.1	41.7						
Bituminous coal and lignite mining .....	12	39.8	42.4	42.2	41.8						
Oil and gas extraction .....	13	41.4	42.1	41.9	42.1						
Crude petroleum, natural gas, and natural gas liquids .....	131,2	41.7	41.9	40.7	41.0						
Oil and gas field services .....	138	41.3	42.3	42.5	42.6						
Nonmetallic minerals, except fuels .....	14	44.2	43.7	46.4	45.2						
Crushed and broken stone .....	142	45.4	44.2	48.1	46.4						
<b>Construction</b> .....		36.5	36.8	38.8	37.1	37.8					
General building contractors .....	15	36.5	36.8	38.2	36.9						
Residential building construction .....	152	35.6	36.2	37.6	36.4						
Operative builders .....	153	38.2	37.8	38.3	37.3						
Nonresidential building construction .....	154	37.2	37.4	38.9	37.5						
Heavy construction contractors .....	16	38.7	38.2	43.4	40.3						
Highway and street construction .....	161	37.5	36.4	44.4	39.8						
Heavy construction, except highway .....	162	39.4	39.1	42.8	40.6						
Special trade contractors .....	17	35.8	36.5	37.7	36.2						
Plumbing, heating, and air conditioning .....	171	37.8	38.5	38.4	37.6						
Painting, paper hanging, and decorating .....	172	34.2	34.8	36.9	35.3						
Electrical work .....	173	38.4	39.4	39.2	38.4						
Masonry, stonework, and plastering .....	174	33.5	34.2	35.8	33.8						
Carpentering and flooring .....	175	34.6	35.0	35.7	34.9						
Roofing and sheet metal work .....	176	31.9	31.9	35.8	32.7						
<b>Manufacturing</b> .....		41.0	41.5	41.3	41.4	41.9	3.6	3.8	4.0	4.1	4.2
<b>Durable goods</b> .....		41.6	42.3	41.8	42.0	42.5	3.7	4.0	4.2	4.2	4.4
Lumber and wood products .....	24	40.4	40.6	40.6	40.4	40.7	3.6	3.6	3.8	3.7	
Logging camps and logging contractors .....	241	39.5	39.6	38.1	39.7	-	3.6	3.4	4.2	4.8	
Sawmills and planing mills .....	242	41.3	41.5	41.8	41.2		4.4	4.3	4.6	4.4	
Sawmills and planing mills, general .....	2421	41.4	41.5	42.0	41.4		4.6	4.4	4.8	4.6	
Hardwood dimension and flooring .....	2426	41.1	42.1	41.3	41.2		3.7	4.4	3.7	3.8	
Millwork, plywood, and structural members .....	243	40.7	40.9	40.8	40.6		3.6	3.7	3.5	3.3	
Millwork .....	2431	40.2	40.2	40.6	39.9		2.7	2.7	2.8	2.4	
Wood kitchen cabinets .....	2434	40.4	41.5	40.4	39.9		3.6	4.1	3.3	3.0	
Hardwood veneer and plywood .....	2435	40.5	41.2	41.5	41.6		3.3	3.7	4.1	4.1	
Softwood veneer and plywood .....	2436	42.9	42.6	41.7	42.2		5.4	5.2	4.5	4.8	
Wood containers .....	244	38.5	38.8	39.2	38.5		2.5	2.4	3.1	2.8	
Wood buildings and mobile homes .....	245	38.4	38.4	39.6	38.5		2.5	2.4	3.1	2.5	
Mobile homes .....	2451	38.5	38.4	39.2	37.7		2.2	2.1	2.6	2.0	
Miscellaneous wood products .....	249	40.4	40.8	40.9	40.8		3.3	3.5	3.5	3.6	
Furniture and fixtures .....	25	40.2	41.1	40.6	40.4	40.9	2.7	3.3	3.3	3.0	
Household furniture .....	251	39.9	40.9	40.3	40.0	-	2.6	3.3	3.0	2.8	
Wood household furniture .....	2511	40.8	40.7	41.2	40.8		2.9	3.1	3.2	3.1	
Upholstered household furniture .....	2512	39.4	41.7	39.1	38.9		2.3	3.9	2.4	2.3	
Metal household furniture .....	2514	39.9	41.8	41.2	41.0		2.2	3.7	3.5	2.8	
Mattresses and bedsprings .....	2515	37.6	39.0	38.9	38.5		1.9	2.4	3.0	2.9	
Office furniture .....	252	41.1	42.1	41.3	42.1		2.7	3.5	3.2	3.0	
Public building and related furniture .....	253	40.6	40.6	41.4	41.0		3.3	3.6	4.3	3.7	
Partitions and fixtures .....	254	40.6	40.7	41.0	40.4		3.2	3.1	4.2	3.7	
Miscellaneous furniture and fixtures .....	259	40.5	42.4	40.2	40.4		2.2	3.6	3.0	2.8	
Stone, clay, and glass products .....	32	41.8	42.0	43.0	42.3	42.3	4.6	4.5	5.7	5.2	
Flat glass .....	321	45.4	46.5	45.6	45.9	-	6.5	6.6	6.9	7.6	
Glass and glassware, pressed or blown .....	322	41.6	41.8	41.2	41.4		4.8	4.8	4.8	4.8	

See footnotes at end of table.





















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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	38.3	38.7	38.1	38.3	38.7	3.1	3.1	3.4	3.4	
Newspapers .....	271	34.2	34.4	33.8	34.1	-	1.9	1.9	1.8	1.8	
Periodicals .....	272	38.6	38.9	38.9	39.0		3.1	2.9	3.9	3.5	
Books .....	273	39.4	40.3	38.3	38.4		3.6	4.1	3.4	3.4	
Book publishing .....	2731	39.2	39.0	38.1	38.6		2.9	3.2	2.9	2.9	
Book printing .....	2732	39.6	42.4	38.5	38.2		4.6	5.4	4.3	4.0	
Miscellaneous publishing .....	274	36.6	37.1	36.4	37.8		2.5	2.6	2.9	3.2	
Commercial printing .....	275	39.9	40.0	39.7	39.6		3.7	3.6	4.1	3.9	
Commercial printing, letterpress .....	2751	39.4	39.5	39.4	39.4		3.2	3.0	3.3	3.3	
Commercial printing, lithographic .....	2752	39.9	40.0	39.6	39.5		3.7	3.7	4.2	3.9	
Manifold business forms .....	276	41.8	43.2	41.5	41.9		3.7	4.8	4.3	4.3	
Blankbooks and bookbinding .....	278	38.1	39.2	39.4	39.5		2.3	2.5	3.4	3.6	
Printing trade services .....	279	38.8	38.7	38.5	38.3		3.7	3.4	4.2	3.7	
Chemicals and allied products .....	28	42.4	42.6	42.4	42.7	43.0	3.8	3.9	4.2	4.1	
Industrial inorganic chemicals .....	281	42.9	43.2	42.9	43.4	-	3.8	3.9	4.3	4.4	
Industrial inorganic chemicals, nec .....	2819	43.6	44.0	42.8	43.4		3.9	3.8	4.2	4.1	
Plastics materials and synthetics .....	282	42.7	43.0	42.9	43.6		4.0	3.8	4.5	4.6	
Plastics materials and resins .....	2821	43.9	43.8	43.4	44.4		4.7	4.4	4.9	5.1	
Organic fibers, noncellulosic .....	2824	42.1	42.9	42.6	42.8		3.5	3.4	4.0	4.0	
Drugs .....	283	42.6	42.0	41.1	41.7		3.0	3.3	3.2	3.3	
Pharmaceutical preparations .....	2834	42.1	41.6	40.8	41.5		3.1	3.4	3.2	3.3	
Soap, cleaners, and toilet goods .....	284	41.3	42.3	41.1	41.3		3.4	3.8	3.4	3.2	
Soap and other detergents .....	2841	45.2	46.0	44.2	44.3		5.9	6.0	5.7	5.5	
Polishing, sanitation, and finishing preparations .....	2842,3	41.0	42.0	41.8	41.7		2.5	2.8	3.4	3.1	
Toilet preparations .....	2844	39.1	40.2	39.2	39.4		2.4	2.9	2.2	2.0	
Paints and allied products .....	285	41.2	41.5	41.7	41.3		2.7	2.7	3.6	3.1	
Industrial organic chemicals .....	286	43.7	43.5	44.9	44.7		5.2	5.2	5.8	5.5	
Cyclic crudes and intermediates .....	2865	43.6	43.2	43.3	43.5		4.7	5.8	5.8	5.5	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	43.7	43.6	45.3	45.0		5.4	5.0	5.8	5.5	
Agricultural chemicals .....	287	42.0	42.6	43.2	43.0		4.2	4.5	4.5	4.7	
Miscellaneous chemical products .....	289	42.0	41.7	41.5	41.9		4.0	3.7	3.7	3.7	
Petroleum and coal products .....	29	44.0	43.6	43.8	43.7	43.9	4.9	4.6	5.4	5.1	
Petroleum refining .....	291	44.3	43.8	43.2	43.7	-	4.5	4.3	4.7	4.6	
Paving and roofing materials .....	295	43.9	43.4	46.6	44.3		7.0	6.1	8.9	7.3	
Rubber and misc. plastics products .....	30	41.7	42.3	41.9	42.1	42.5	3.9	4.0	4.3	4.4	
Tires and inner tubes .....	301	43.8	43.8	44.7	44.9	-	5.3	4.9	5.9	6.0	
Rubber and plastics footwear .....	302	40.0	39.5	41.8	43.0		2.7	1.6	2.3	3.4	
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	42.4	43.3	44.9	44.5		3.3	4.1	5.8	5.4	
Fabricated rubber products, nec .....	306	41.3	42.6	41.9	41.9		3.3	3.8	3.9	3.9	
Miscellaneous plastics products .....	307	41.5	42.0	41.5	41.7		3.8	4.0	4.2	4.3	
Leather and leather products .....	31	37.1	38.1	38.7	38.5	38.9	2.1	1.9	2.4	2.3	
Leather tanning and finishing .....	311	40.9	41.2	41.5	41.0	-	3.4	3.7	4.2	4.1	
Footwear, except rubber .....	314	36.1	37.5	38.2	38.4		1.7	1.7	2.0	2.0	
Men's footwear, except athletic .....	3143	35.4	37.8	38.3	38.4		1.3	1.6	2.0	1.9	
Women's footwear, except athletic .....	3144	36.6	37.4	38.5	38.7		2.1	1.9	2.1	2.4	
Luggage .....	316	39.5	39.7	40.6	40.0		1.7	1.7	3.4	2.4	
Handbags and personal leather goods .....	317	37.8	37.7	38.0	37.1		3.2	2.0	3.1	3.2	
<b>Transportation and public utilities .....</b>		<b>39.3</b>	<b>39.1</b>	<b>39.3</b>	<b>39.3</b>	<b>39.1</b>					
Railroad transportation:											
Class I railroads <sup>a</sup> .....	4011	46.1	43.2	42.0	41.7						
Local and interurban passenger transit .....	41	33.7	34.0	34.0	33.8						
Local and suburban transportation .....	411	38.2	38.1	38.9	38.8						
Intercity highway transportation .....	413	41.1	38.6	40.8	41.3						
Trucking and warehousing .....	42	38.0	38.6	38.8	38.5						
Trucking and trucking terminals .....	421,3	37.9	38.5	38.6	38.4						
Public warehousing .....	422	39.2	38.9	40.8	39.7						
Pipe lines, except natural gas .....	46	41.7	41.6	42.0	42.1						

See footnotes at end of table.



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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	40.4	39.9	40.2	40.1						
Telephone communication .....	481	41.8	41.2	41.6	41.5						
Radio and television broadcasting .....	483	36.6	36.4	35.8	36.2						
Electric, gas, and sanitary services .....	49	42.1	41.8	42.0	42.0						
Electric services .....	491	42.0	41.6	41.5	41.9						
Gas production and distribution .....	492	41.7	41.6	41.9	41.1						
Combination utility services .....	493	42.5	42.3	43.2	43.0						
Sanitary services .....	495	43.1	42.8	42.2	42.1						
<b>Wholesale trade .....</b>		<b>38.4</b>	<b>38.4</b>	<b>38.4</b>	<b>38.3</b>	<b>38.4</b>					
Durable goods .....	50	38.7	38.8	38.8	38.9						
Motor vehicles and automotive equipment .....	501	37.9	38.3	38.2	38.2						
Furniture and home furnishings .....	502	37.2	37.0	37.7	37.9						
Lumber and construction materials .....	503	39.3	39.2	39.8	39.3						
Sporting goods, toys, and hobby goods .....	504	36.6	37.2	36.5	36.4						
Metals and minerals, except petroleum .....	505	40.6	41.0	41.0	41.2						
Electrical goods .....	506	38.5	38.7	38.4	38.5						
Hardware, plumbing, and heating equipment .....	507	38.5	38.4	38.6	38.7						
Machinery, equipment, and supplies .....	508	39.2	39.2	39.2	39.2						
Miscellaneous durable goods .....	509	37.7	37.9	38.0	38.2						
Nondurable goods .....	51	37.9	37.9	37.8	37.5						
Paper and paper products .....	511	37.3	37.6	37.2	37.2						
Drugs, proprietaries, and sundries .....	512	37.0	38.0	37.9	37.2						
Apparel, piece goods, and notions .....	513	37.0	36.5	37.3	37.6						
Groceries and related products .....	514	38.4	38.5	37.9	38.1						
Chemicals and allied products .....	516	39.3	39.4	39.1	38.9						
Petroleum and petroleum products .....	517	39.1	39.2	38.9	38.9						
Beer, wine, and distilled beverages .....	518	36.5	36.8	35.3	35.5						
Miscellaneous nondurable goods .....	519	37.1	37.2	37.3	36.5						
<b>Retail trade .....</b>		<b>29.0</b>	<b>29.4</b>	<b>29.2</b>	<b>29.0</b>	<b>29.3</b>					
Building materials and garden supplies .....	52	36.2	36.4	36.8	36.7						
Lumber and other building materials .....	521	38.1	38.2	38.8	38.7						
Hardware stores .....	525	32.6	33.1	33.2	32.9						
General merchandise stores .....	53	28.3	29.8	27.5	27.2						
Department stores .....	531	28.1	29.5	27.2	26.8						
Variety stores .....	533	29.4	31.4	28.6	28.8						
Misc. general merchandise stores .....	539	29.3	30.8	30.1	29.1						
Food stores .....	54	29.7	29.7	30.0	30.1						
Grocery stores .....	541	30.0	29.8	30.2	30.3						
Retail bakeries .....	546	27.4	27.6	27.8	27.7						
Automotive dealers and service stations .....	55	36.4	36.2	36.7	36.7						
New and used car dealers .....	551,2	37.2	37.2	37.4	37.5						
Auto and home supply stores .....	553	39.3	38.9	39.1	39.1						
Gasoline service stations .....	554	33.9	33.7	34.5	34.3						
Apparel and accessory stores .....	56	26.4	27.6	26.9	26.7						
Men's and boys' clothing and furnishings .....	561	28.6	31.0	29.3	28.6						
Women's ready-to-wear stores .....	562	25.3	26.4	25.4	25.2						
Family clothing stores .....	565	26.9	27.9	27.3	27.2						
Shoe stores .....	566	27.4	28.5	27.6	27.7						
Furniture and home furnishings stores .....	57	33.1	33.3	33.0	33.1						
Furniture and home furnishings stores .....	571	32.9	33.0	33.3	33.2						
Household appliance stores .....	572	34.4	34.5	34.1	34.3						
Radio, television, and music stores .....	573	33.0	33.3	32.1	32.5						
Eating and drinking places <sup>5</sup> .....	58	25.5	25.4	25.8	25.7						

See footnotes at end of table.

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

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

Industry	1972 SIC Code <sup>3</sup>	Average hourly earnings					Average weekly earnings				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.34	\$12.32	\$12.52	\$12.60		\$498.54	\$491.57	\$503.30	\$505.26	
Telephone communication .....	481	13.11	13.10	13.34	13.46		548.00	539.72	554.94	558.59	
Radio and television broadcasting .....	483	10.82	10.76	10.87	10.98		396.01	391.66	369.15	397.48	
Electric, gas, and sanitary services .....	49	13.70	13.82	13.97	14.06		576.77	569.32	586.74	590.52	
Electric services .....	491	13.76	13.75	13.96	14.15		577.92	572.00	579.34	592.89	
Gas production and distribution .....	492	12.90	12.83	13.18	13.24		537.93	533.73	552.24	544.16	
Combination utility services .....	493	15.99	15.84	16.55	16.48		679.58	670.03	714.96	708.84	
Sanitary services .....	495	9.97	9.72	10.23	10.31		429.71	416.02	431.71	434.05	
<b>Wholesale trade .....</b>		<b>9.47</b>	<b>9.47</b>	<b>9.67</b>	<b>9.75</b>	<b>\$9.75</b>	<b>363.65</b>	<b>363.65</b>	<b>371.33</b>	<b>373.43</b>	<b>\$374.40</b>
Durable goods .....	50	9.58	9.57	9.88	9.92		370.75	371.32	382.57	385.89	
Motor vehicles and automotive equipment .....	501	8.54	8.55	8.85	8.91		323.67	327.47	338.07	340.36	
Furniture and home furnishings .....	502	8.74	8.79	8.97	9.02		325.13	325.23	338.17	341.86	
Lumber and construction materials .....	503	9.19	9.09	9.42	9.45		361.17	356.33	374.92	371.39	
Sporting goods, toys, and hobby goods .....	504	9.72	9.88	9.74	9.60		355.75	360.10	355.51	349.44	
Metals and minerals, except petroleum .....	505	10.21	10.27	10.37	10.47		414.53	421.07	425.17	431.36	
Electrical goods .....	506	9.98	9.86	10.23	10.37		384.23	381.58	392.83	399.25	
Hardware, plumbing, and heating equipment .....	507	9.10	9.11	9.30	9.32		350.35	349.82	358.98	360.88	
Machinery, equipment, and supplies .....	508	10.19	10.20	10.54	10.60		399.45	399.84	413.17	415.52	
Miscellaneous durable goods .....	509	7.82	7.64	7.80	7.84		287.27	289.56	296.40	299.49	
Nondurable goods .....	51	9.30	9.32	9.40	9.50		352.47	353.23	355.32	356.25	
Paper and paper products .....	511	10.05	9.87	10.24	10.43		374.87	371.11	380.93	388.00	
Drugs, proprietaries, and sundries .....	512	10.77	10.69	10.72	10.93		398.49	406.22	406.29	406.60	
Apparel, piece goods, and notions .....	513	8.93	9.00	9.16	9.18		330.41	328.50	341.67	345.17	
Groceries and related products .....	514	9.45	9.45	9.54	9.62		362.88	363.83	361.57	366.52	
Chemicals and allied products .....	516	11.75	11.89	12.08	12.23		461.78	468.47	472.33	475.75	
Petroleum and petroleum products .....	517	9.74	9.78	9.60	9.67		380.83	383.38	373.44	376.16	
Beer, wine, and distilled beverages .....	518	10.90	11.06	11.10	11.10		397.85	407.01	391.83	394.05	
Miscellaneous nondurable goods .....	519	7.65	7.62	7.74	7.71		283.82	283.46	286.70	281.42	
<b>Retail trade .....</b>		<b>6.08</b>	<b>6.07</b>	<b>6.16</b>	<b>6.19</b>	<b>8.17</b>	<b>176.32</b>	<b>178.46</b>	<b>179.87</b>	<b>179.51</b>	<b>180.78</b>
Building materials and garden supplies .....	52	6.93	6.93	7.12	7.15		250.87	252.25	262.02	262.41	
Lumber and other building materials .....	521	7.24	7.27	7.45	7.48		275.84	277.71	289.06	289.48	
Hardware stores .....	525	5.82	5.81	6.01	6.01		189.73	192.31	199.53	197.73	
General merchandise stores .....	53	6.37	6.41	6.57	6.53		180.27	191.02	180.68	177.62	
Department stores .....	531	8.67	8.72	8.91	8.85		187.43	198.24	187.95	183.58	
Variety stores .....	533	4.70	4.87	4.80	4.79		138.18	152.92	137.28	137.95	
Misc. general merchandise stores .....	539	4.86	4.85	5.04	5.00		142.40	149.38	151.70	145.50	
Food stores .....	54	7.12	6.81	6.93	7.06		211.46	205.23	207.90	212.51	
Grocery stores .....	541	7.30	7.10	7.07	7.22		219.00	211.58	213.51	218.77	
Retail bakeries .....	546	5.49	5.61	5.65	5.66		150.43	154.84	157.07	157.34	
Automotive dealers and service stations .....	55	7.66	7.70	7.78	7.76		278.82	278.74	285.53	284.79	
New and used car dealers .....	551,2	9.29	9.39	9.41	9.35		345.59	349.31	351.93	350.83	
Auto and home supply stores .....	553	6.81	6.56	6.73	6.84		259.77	255.18	263.14	267.44	
Gasoline service stations .....	554	5.49	5.48	5.57	5.54		188.11	184.66	192.17	190.02	
Apparel and accessory stores .....	56	5.41	5.41	5.64	5.64		142.82	149.32	151.72	150.59	
Men's and boys' clothing and furnishings .....	561	6.25	6.25	6.73	6.68		178.75	193.75	197.19	191.05	
Women's ready-to-wear stores .....	562	5.13	5.16	5.29	5.27		129.79	136.22	134.37	132.80	
Family clothing stores .....	565	5.40	5.29	5.51	5.51		145.26	147.59	150.42	149.87	
Shoe stores .....	566	5.36	5.42	5.73	5.86		146.86	154.47	158.15	162.32	
Furniture and home furnishings stores .....	57	7.37	7.45	7.58	7.60		243.95	248.09	250.14	251.58	
Furniture and home furnishings stores .....	571	7.44	7.50	7.83	7.68		244.78	247.50	254.08	254.98	
Household appliance stores .....	572	7.18	7.27	7.57	7.69		246.99	250.82	258.14	263.77	
Radio, television, and music stores .....	573	7.31	7.42	7.50	7.43		241.23	247.09	240.75	241.48	
Eating and drinking places <sup>5</sup> .....	58	4.37	4.39	4.45	4.48		111.44	111.51	114.81	115.14	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	30.0	31.1	30.2	29.9						
Drug stores and proprietary stores .....	591	28.1	28.8	28.0	28.0						
Miscellaneous shopping goods stores .....	594	28.1	29.9	28.7	28.0						
Nonstore retailers .....	596	33.0	34.9	32.9	33.3						
Fuel and ice dealers .....	598	39.7	39.6	39.6	39.8						
Retail stores, nec .....	599	31.6	32.6	32.0	31.7						
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.5</b>	<b>36.5</b>	<b>36.2</b>	<b>36.4</b>	<b>36.1</b>					
Banking .....	60	36.6	36.5	36.1	36.4						
Commercial and stock savings banks .....	602	36.7	36.6	36.1	36.4						
Credit agencies other than banks .....	61	37.2	36.6	36.5	36.9						
Savings and loan associations .....	612	36.2	35.9	35.8	36.1						
Personal credit institutions .....	614	36.5	36.4	37.0	36.9						
Insurance carriers .....	63	37.5	37.5	37.1	37.4						
Life insurance .....	631	37.0	37.0	36.8	37.0						
Medical service and health insurance .....	632	38.1	38.3	37.9	37.9						
Fire, marine, and casualty insurance .....	633	37.4	37.3	37.0	37.4						
<b>Services</b> .....		<b>32.4</b>	<b>32.4</b>	<b>32.5</b>	<b>32.5</b>	<b>32.5</b>					
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>5</sup> .....	701	31.0	30.1	30.9	31.0						
Personal services:											
Laundry, cleaning, and garment services .....	721	34.3	34.3	34.5	33.9						
Beauty shops <sup>5</sup> .....	723	29.7	29.8	29.4	29.5						
Business services .....	73	33.4	33.5	33.6	33.6						
Advertising .....	731	36.4	36.2	36.6	36.7						
Services to buildings .....	734	28.6	28.5	28.8	29.0						
Computer and data processing services .....	737	38.1	37.7	37.3	37.6						
Auto repair, services, and garages .....	75	37.3	37.4	36.8	36.3						
Automotive repair shops .....	753	38.4	38.6	38.5	37.9						
Miscellaneous repair services .....	76	37.6	37.9	37.9	37.5						
Motion pictures .....	78	28.5	28.2	30.0	29.8						
Motion picture production and services .....	781	36.2	35.5	37.4	37.1						
Amusement and recreation services .....	79	28.3	28.4	28.1	28.2						
Health services .....	80	32.3	32.3	32.3	32.5						
Offices of physicians .....	801	30.9	30.9	30.9	31.2						
Offices of dentists .....	802	27.7	28.1	28.4	28.6						
Nursing and personal care facilities .....	805	31.5	31.5	31.4	31.8						
Hospitals .....	806	34.1	34.1	34.1	34.1						
Legal services .....	81	34.7	34.8	34.6	34.6						
Miscellaneous services .....	89	38.3	38.4	38.3	38.1						
Engineering and architectural services .....	891	39.8	39.8	39.6	39.4						
Accounting, auditing, and bookkeeping .....	893	36.7	37.0	36.6	36.2						

See footnotes at end of table.



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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Dec. 1987 <sup>P</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.19	\$6.15	\$6.38	\$6.36		\$185.70	\$191.27	\$192.68	\$190.16	
Drug stores and proprietary stores .....	591	5.71	5.71	5.90	5.90		160.45	164.45	165.20	165.20	
Miscellaneous shopping goods stores .....	594	5.70	5.65	5.91	5.88		160.17	168.94	169.62	164.64	
Nonstore retailers .....	596	7.01	7.03	7.16	7.16		231.33	245.35	235.56	238.43	
Fuel and ice dealers .....	598	8.98	9.09	9.19	9.27		356.51	359.96	363.92	368.95	
Retail stores, nec .....	599	6.42	6.33	6.56	6.51		202.87	206.36	209.92	206.37	
<b>Finance, insurance, and real estate<sup>6</sup></b> .....		<b>8.57</b>	<b>8.48</b>	<b>8.81</b>	<b>8.92</b>	<b>\$8.85</b>	<b>312.81</b>	<b>309.52</b>	<b>318.92</b>	<b>324.69</b>	<b>\$319.49</b>
Banking .....	60	7.37	7.32	7.55	7.62		269.74	267.18	272.56	277.37	
Commercial and stock savings banks .....	602	7.15	7.09	7.31	7.37		262.41	259.49	263.89	268.27	
Credit agencies other than banks .....	61	7.83	7.75	8.04	8.13		291.28	283.65	293.46	300.00	
Savings and loan associations .....	612	7.22	7.18	7.50	7.60		261.36	257.76	268.50	274.36	
Personal credit institutions .....	614	7.36	7.33	7.51	7.62		268.64	266.81	277.87	281.18	
Insurance carriers .....	63	9.28	9.27	9.70	9.79		348.00	347.63	359.87	366.15	
Life insurance .....	631	8.81	8.84	9.24	9.30		325.97	327.08	340.03	344.10	
Medical service and health insurance .....	632	9.27	9.30	9.43	9.52		353.19	356.19	357.40	360.81	
Fire, marine, and casualty insurance .....	633	9.61	9.59	10.13	10.22		359.41	357.71	374.81	382.23	
<b>Services</b> .....		<b>8.33</b>	<b>8.32</b>	<b>8.61</b>	<b>8.70</b>	<b>8.72</b>	<b>269.89</b>	<b>269.57</b>	<b>279.83</b>	<b>282.75</b>	<b>283.40</b>
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>5</sup> .....	701	6.07	6.16	6.22	6.31		188.17	185.42	192.20	195.61	
Personal services:											
Laundry, cleaning, and garment services .....	721	6.01	6.07	6.17	6.20		206.14	208.20	212.87	210.16	
Beauty shops <sup>5</sup> .....	723	6.14	6.22	6.41	6.49		182.36	185.36	186.45	191.46	
Business services .....	73	8.53	8.46	8.78	8.88		284.90	284.08	295.01	298.37	
Advertising .....	731	11.63	11.38	12.07	12.37		423.33	411.96	441.76	453.98	
Services to buildings .....	734	6.59	6.53	6.79	6.83		188.47	186.11	195.55	198.07	
Computer and data processing services .....	737	11.81	11.71	12.34	12.42		449.96	441.47	460.28	466.99	
Auto repair, services, and garages .....	75	7.65	7.67	7.92	7.96		285.35	286.86	291.46	288.95	
Automotive repair shops .....	753	8.24	8.29	8.51	8.56		316.42	319.99	327.64	324.42	
Miscellaneous repair services .....	76	8.89	8.96	9.31	9.39		334.26	339.58	352.85	352.13	
Motion pictures .....	78	12.83	12.51	13.14	13.27		365.66	352.78	394.20	395.45	
Motion picture production and services .....	781	16.94	16.82	17.36	17.42		613.23	597.11	649.26	646.28	
Amusement and recreation services .....	79	7.33	7.35	7.33	7.52		207.44	208.74	205.97	212.06	
Health services .....	80	8.46	8.46	8.84	8.88		273.26	273.26	285.53	288.60	
Offices of physicians .....	801	8.31	8.26	8.47	8.57		256.78	255.23	261.72	267.38	
Offices of dentists .....	802	8.31	8.34	8.53	8.59		230.19	234.35	242.25	245.67	
Nursing and personal care facilities .....	805	5.82	5.84	6.08	6.09		183.33	183.96	190.91	193.66	
Hospitals .....	806	9.52	9.54	10.05	10.11		324.63	325.31	342.71	344.75	
Legal services .....	81	11.70	11.53	12.10	12.37		405.99	401.24	418.66	428.00	
Miscellaneous services .....	89	11.99	11.88	12.27	12.44		459.22	456.19	469.94	473.96	
Engineering and architectural services .....	891	12.83	12.78	13.06	13.21		510.63	508.64	517.18	520.47	
Accounting, auditing, and bookkeeping .....	893	10.23	10.03	10.54	10.73		375.44	371.11	385.76	388.43	

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

<sup>2</sup> See table C-2a for average hourly earnings in the aircraft industry (SIC 3721).

<sup>3</sup> Publication of data for SIC 3761, and thus the 376 aggregate, has been temporarily suspended, as the series may have been inflated by the incorrect incorporation of lump-sum payments. Estimates for October 1983 forward are under review.

<sup>4</sup> Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

<sup>5</sup> Money payments only; tips, not included.

<sup>6</sup> Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision. Corrections in August and September 1987 data on average hourly and weekly earnings in SIC 493 and totals incorporating these data are shown on page 8.

## A Note on Average Hourly Earnings in Aircraft Manufacturing

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

As a service to aircraft companies and other interested parties, BLS has calculated an average hourly earnings series for SIC 3721 which includes lump-sum payments. This series is presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. The series begins in October 1983, the effective date of the first aircraft bargaining agreement using lump-sum payments.

The general practice in the industry has been to make this payment at the beginning of the contract year "in lieu of a wage increase" and to base the amount of the payment on the workers' earnings during the preceding year. As a result, the Bureau considered three approaches to the method for calculating an average hourly earnings series which includes lump-sum payments:

1. The entire payment could be included in the month in which the payment was made.
2. The payments could be prorated backward to payroll periods used to determine the amount of the lump-sum payment.
3. The payments could be prorated forward as an advance

payment for payroll periods in the year following the payment.

The first approach, attractive because it includes the payment in the month in which it is received by the worker, creates 1-month "spikes" and a series which would not be useful for escalation purposes. The second approach, which prorates the payments backward, places emphasis on the determination of the amount of the payment from workers' earnings in the previous year. This approach generally relates the payments to the workers who receive them. However, the Bureau has received statements from both union and company officials who negotiated the agreements covering a majority of the workers in the industry. These statements make clear that the intent of the bargainers was to make an advance payment for the upcoming contract year in lieu of an increase in wage rates for that following year.

Because BLS has a longstanding policy of leaving the interpretation of collective bargaining agreements to the parties involved, the Bureau calculated the inclusion of lump-sum payments using the third method, prorating the payments forward through the years covered by the contract. Because the payments prorated forward under this approach may include payments to workers no longer on the payroll, data provided by the aircraft companies have been used to adjust for this difference.

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 plans to conduct 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 manufacturing (SIC 3721)**

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average hourly earnings, excluding lump-sum payments													
1983 .....											\$12.76	\$12.83	\$12.93
1984 .....	\$12.91	\$12.82	\$12.88	\$12.85	\$12.81	\$12.78	\$12.87	\$12.89	\$12.87	\$12.97	13.04	13.05	13.13
1985 .....	13.18	13.01	13.12	13.11	13.04	13.06	13.11	13.05	13.16	13.26	13.35	13.37	13.48
1986 .....	13.48	13.38	13.44	13.46	13.45	13.38	13.42	13.41	13.44	13.48	13.52	13.67	13.65
1987 .....		13.61	13.61	13.66	13.63	13.73	13.72	13.68	13.76	13.76	13.80	<sup>P</sup> 13.92	
Average hourly earnings, including lump-sum payments													
1983 .....											\$12.83	\$12.92	\$13.03
1984 .....	\$13.11	\$12.95	\$13.02	\$13.02	\$12.98	\$12.97	\$13.06	\$13.11	\$13.09	\$13.19	13.26	13.28	13.37
1985 .....	13.40	13.26	13.36	13.33	13.26	13.27	13.33	13.29	13.39	13.48	13.54	13.57	13.68
1986 .....	13.80	13.58	13.64	13.66	13.68	13.60	13.64	13.61	13.63	13.67	14.19	14.31	14.26
1987 .....		14.21	14.25	14.29	14.36	14.42	14.39	14.37	14.43	14.39	14.13	<sup>P</sup> 14.24	

<sup>P</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Manufacturing</b> .....	<b>\$9.37</b>	<b>\$9.42</b>	<b>\$9.49</b>	<b>\$9.55</b>	<b>\$9.60</b>
<b>Durable goods</b> .....	9.90	9.94	10.02	10.07	10.12
Lumber and wood products .....	7.99	7.96	8.06	8.11	(f)
Furniture and fixtures .....	7.31	7.35	7.43	7.46	(f)
Stone, clay, and glass products .....	9.61	9.65	9.67	9.75	(f)
Primary metal industries .....	11.23	11.23	11.35	11.39	(f)
Fabricated metal products .....	9.51	9.57	9.61	9.65	(f)
Machinery, except electrical .....	10.18	10.19	10.33	10.34	(f)
Electrical and electronic equipment .....	9.38	9.44	9.58	9.60	(f)
Transportation equipment .....	12.25	12.30	12.43	12.51	(f)
Instruments and related products .....	9.30	9.28	9.44	9.50	(f)
Miscellaneous manufacturing .....	7.34	7.43	7.46	7.50	(f)
<b>Nondurable goods</b> .....	8.64	8.69	8.76	8.82	\$8.88
Food and kindred products .....	8.38	8.48	8.41	8.52	(f)
Tobacco manufactures .....	12.42	12.69	12.31	13.02	(f)
Textile mill products .....	6.69	6.73	6.87	6.92	(f)
Apparel and other textile products .....	5.73	5.76	5.82	5.84	(f)
Paper and allied products .....	10.66	10.71	10.80	10.83	(f)
Printing and publishing .....	9.71	9.75	9.97	9.96	(f)
Chemicals and allied products .....	11.64	11.67	11.93	12.00	(f)
Petroleum and coal products .....	13.55	13.69	13.80	13.92	(f)
Rubber and misc. plastics products .....	8.38	8.42	8.47	8.49	(f)
Leather and leather products .....	5.82	5.84	5.91	5.93	(f)

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>	Nov. 1986	Dec. 1986	Oct. 1987	Nov. 1987 <sup>p</sup>	Dec. 1987 <sup>p</sup>
<b>Total private:</b>										
Current dollars .....	\$8.88	\$8.86	\$9.09	\$9.14	\$9.13	\$308.14	\$308.33	\$317.24	\$318.07	\$318.64
Constant (1977) dollars .....	4.95	4.94	4.85	4.87	( <sup>2</sup> )	171.86	171.87	169.38	169.64	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	12.57	12.63	12.34	12.46	\$12.46	520.40	535.51	526.92	529.55	\$533.29
Constant (1977) dollars .....	7.01	7.04	6.59	6.65	( <sup>2</sup> )	290.24	298.50	281.32	282.43	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	12.66	12.77	12.79	12.81	\$12.81	462.09	469.94	496.25	475.25	\$484.22
Constant (1977) dollars .....	7.06	7.12	6.83	6.83	( <sup>2</sup> )	257.72	261.95	264.95	253.47	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	9.78	9.85	9.95	10.01	\$10.08	400.98	408.78	410.94	414.41	\$422.35
Constant (1977) dollars .....	5.45	5.49	5.31	5.34	( <sup>2</sup> )	223.64	227.86	219.40	221.02	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	11.90	11.90	12.09	12.19	\$12.16	467.67	465.29	475.14	479.07	\$475.46
Constant (1977) dollars .....	6.64	6.63	6.45	6.50	( <sup>2</sup> )	260.83	259.36	253.68	255.50	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	9.47	9.47	9.67	9.75	\$9.75	363.65	363.65	371.33	373.43	\$374.40
Constant (1977) dollars .....	5.28	5.28	5.16	5.20	( <sup>2</sup> )	202.82	202.70	198.25	199.16	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.08	6.07	6.16	6.19	\$6.17	176.32	178.46	179.87	179.51	\$180.78
Constant (1977) dollars .....	3.39	3.38	3.29	3.30	( <sup>2</sup> )	98.34	99.48	96.03	95.74	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	8.57	8.48	8.81	8.92	\$8.85	312.81	309.52	318.92	324.69	\$319.49
Constant (1977) dollars .....	4.78	4.73	4.70	4.76	( <sup>2</sup> )	174.46	172.53	170.27	173.17	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	8.33	8.32	8.61	8.70	\$8.72	269.89	269.57	279.83	282.75	\$283.40
Constant (1977) dollars .....	4.65	4.64	4.60	4.64	( <sup>2</sup> )	150.52	150.26	149.40	150.80	( <sup>2</sup> )

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and

Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1986 forward are subject to revision. Corrections in August and September 1987 data on average hourly and weekly earnings for transportation and public utilities are shown on page 8.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

Industry	1986		1987										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Total private</b> .....	34.6	34.7	34.9	34.8	34.7	34.9	34.8	34.8	34.9	34.6	34.9	34.9	34.7
<b>Mining</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Construction</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Manufacturing</b> .....	40.8	40.9	41.1	40.9	40.6	41.0	41.0	41.0	41.0	40.6	41.3	41.2	41.1
<i>Overtime hours</i> .....	3.6	3.6	3.6	3.6	3.5	3.8	3.7	3.8	3.8	3.6	4.0	3.9	3.9
<b>Durable goods</b> .....	41.4	41.6	41.7	41.5	41.2	41.6	41.5	41.6	41.6	41.0	41.9	41.8	41.6
<i>Overtime hours</i> .....	3.6	3.7	3.7	3.7	3.6	3.9	3.8	3.8	4.0	3.7	4.1	4.0	4.0
Lumber and wood products .....	40.6	40.8	41.3	40.9	40.6	41.0	40.6	40.6	40.4	39.4	40.4	40.8	40.7
Furniture and fixtures .....	39.9	40.2	40.2	40.0	39.1	39.9	40.0	40.0	40.1	39.3	40.0	40.0	39.7
Stone, clay, and glass products .....	42.2	42.5	42.8	42.5	41.9	42.3	42.0	42.2	42.1	41.9	42.6	42.4	42.6
Primary metal industries .....	42.5	42.6	42.6	42.6	42.3	43.1	43.1	43.4	43.5	43.4	43.7	43.6	43.5
Blast furnaces and basic steel products ..	42.6	42.7	42.3	42.3	42.4	43.3	43.5	44.1	44.0	45.2	44.3	43.8	44.1
Fabricated metal products .....	41.2	41.6	41.6	41.5	41.2	41.6	41.5	41.4	41.5	40.8	42.0	42.0	41.7
Machinery, except electrical .....	41.7	42.0	42.2	42.0	41.8	42.2	42.2	42.4	42.2	41.6	42.6	42.7	42.5
Electrical and electronic equipment .....	41.0	41.0	41.1	40.9	40.6	40.8	41.1	41.1	41.0	40.4	41.1	41.0	41.0
Transportation equipment .....	42.1	42.3	42.5	42.3	41.9	42.2	41.9	41.7	41.9	41.3	42.5	42.4	41.5
Motor vehicles and equipment .....	42.4	42.9	43.0	42.9	42.1	42.5	42.0	41.9	41.9	41.3	43.0	43.1	41.4
Instruments and related products .....	41.1	41.2	41.3	41.3	41.0	41.5	41.5	41.6	41.7	41.1	42.1	41.8	42.3
Miscellaneous manufacturing .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Nondurable goods</b> .....	40.0	40.1	40.3	40.1	39.7	40.2	40.2	40.3	40.3	40.1	40.5	40.4	40.4
<i>Overtime hours</i> .....	3.5	3.5	3.5	3.5	3.3	3.7	3.6	3.7	3.7	3.6	3.8	3.8	3.7
Food and kindred products .....	39.8	40.0	40.1	40.0	39.8	40.1	40.1	39.9	40.3	40.2	40.5	40.6	40.8
Tobacco manufactures .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Textile mill products .....	41.6	41.6	42.0	42.1	41.4	42.0	42.1	42.4	42.1	41.3	41.9	41.8	41.7
Apparel and other textile products .....	37.0	37.0	37.4	37.0	36.1	37.2	37.1	37.3	37.4	36.3	37.4	37.1	37.4
Paper and allied products .....	43.2	43.4	43.3	43.0	43.0	43.5	43.3	43.5	43.4	43.8	43.7	43.4	43.2
Printing and publishing .....	38.0	37.9	38.1	37.9	37.7	37.9	38.1	38.1	37.9	38.2	38.0	38.0	37.9
Chemicals and allied products .....	42.1	42.2	42.2	42.0	42.2	42.1	42.0	42.2	42.4	42.8	42.7	42.6	42.5
Petroleum and coal products .....	43.6	44.6	44.0	44.1	43.9	44.3	43.3	44.4	43.3	43.2	43.5	43.5	43.9
Rubber and misc. plastics products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Leather and leather products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Transportation and public utilities</b> .....	38.9	39.0	39.2	39.0	39.0	39.2	38.8	39.2	39.3	39.1	39.3	39.2	38.9
<b>Wholesale trade</b> .....	38.2	38.3	38.3	38.1	38.2	38.3	38.2	38.1	38.3	38.0	38.4	38.3	38.2
<b>Retail trade</b> .....	28.9	29.0	29.3	29.3	29.5	29.4	29.2	29.3	29.6	29.6	29.3	29.2	28.8
<b>Finance, insurance, and real estate</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Services</b> .....	32.4	32.4	32.6	32.5	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.6	32.5

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

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

components and consequently cannot be separated with sufficient precision.  
<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

(1977=100)

Industry	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Total private</b> .....	117.9	118.7	119.7	119.6	119.6	120.2	120.0	120.6	121.2	120.4	121.9	122.2	122.0
<b>Goods-producing</b> .....	97.8	98.8	99.3	98.9	98.0	99.2	98.9	99.5	99.7	97.7	101.3	101.5	102.0
<b>Mining</b> .....	79.5	78.9	79.9	80.0	81.3	83.4	83.5	85.0	85.2	84.9	87.7	86.8	86.4
<b>Construction</b> .....	130.7	136.2	136.2	135.5	132.8	134.3	132.6	133.2	133.6	124.9	136.8	136.2	139.5
<b>Manufacturing</b> .....	92.3	92.5	93.1	92.8	92.1	93.1	93.1	93.6	93.8	93.1	95.0	95.4	95.5
<b>Durable goods</b> .....	89.8	90.0	90.6	90.2	89.8	90.5	90.5	90.6	91.2	90.1	92.6	93.0	92.9
Lumber and wood products .....	101.0	101.5	103.3	102.5	102.0	103.2	101.7	102.4	101.2	99.2	101.7	104.2	104.6
Furniture and fixtures .....	106.5	107.9	107.9	107.9	105.7	109.0	109.5	111.6	111.7	109.7	112.7	113.0	112.7
Stone, clay, and glass products .....	86.5	87.3	88.3	87.5	86.3	86.9	86.1	86.1	86.1	85.9	87.7	88.1	88.9
Primary metal industries .....	61.1	60.4	61.2	61.9	62.1	63.1	63.5	64.4	65.0	65.9	66.8	67.1	67.1
Blast furnaces and basic steel products .....	46.9	46.1	46.8	47.7	49.6	50.7	51.4	52.6	53.0	55.2	54.9	54.8	54.9
Fabricated metal products .....	88.3	89.1	89.1	88.9	88.4	89.0	89.1	89.0	89.4	88.2	91.3	92.0	91.7
Machinery, except electrical .....	83.8	84.2	85.1	84.7	84.8	86.0	86.5	87.0	87.4	86.7	89.3	90.0	90.1
Electrical and electronic equipment .....	101.5	100.8	100.8	99.9	99.0	99.4	99.9	100.6	100.8	99.3	102.0	102.3	103.4
Transportation equipment .....	97.2	97.5	98.9	98.2	96.6	97.3	96.6	94.3	97.4	95.2	97.8	97.5	95.0
Motor vehicles and equipment .....	86.3	87.5	89.0	88.0	85.6	86.1	85.1	81.5	86.1	83.3	86.9	86.7	83.0
Instruments and related products .....	102.1	101.8	102.0	101.7	101.0	102.0	102.2	103.0	103.0	102.1	105.1	105.2	106.4
Miscellaneous manufacturing .....	81.0	81.0	81.1	81.1	79.9	81.0	81.4	81.9	82.3	80.7	82.7	82.5	82.9
<b>Nondurable goods</b> .....	96.0	96.3	96.7	96.5	95.7	97.0	97.0	98.1	97.7	97.4	98.7	99.0	99.4
Food and kindred products .....	98.5	98.8	99.3	99.4	99.3	99.6	99.3	99.6	99.5	99.1	100.3	101.3	101.7
Tobacco manufactures .....	75.9	76.3	76.0	77.7	77.3	80.1	76.3	73.1	71.0	72.4	73.8	75.8	76.0
Textile mill products .....	80.8	81.2	82.3	82.9	81.3	82.9	83.3	84.8	83.7	82.4	83.7	83.8	83.6
Apparel and other textile products .....	86.3	85.8	86.1	85.3	83.5	85.8	85.9	88.2	86.6	84.8	87.8	87.6	88.3
Paper and allied products .....	100.5	100.6	100.6	99.7	99.5	100.5	100.0	100.8	100.4	101.9	101.3	101.0	101.5
Printing and publishing .....	129.4	129.5	130.2	129.4	128.7	130.0	131.1	131.4	131.4	132.6	132.3	133.0	133.1
Chemicals and allied products .....	92.7	93.2	93.4	93.1	93.4	93.7	92.8	94.5	95.5	96.4	96.3	96.8	97.0
Petroleum and coal products .....	81.6	84.3	83.1	83.3	82.9	84.5	83.4	84.7	83.4	83.2	84.5	84.5	86.1
Rubber and misc. plastics products .....	112.7	112.9	113.5	113.5	112.6	114.5	114.8	115.0	115.5	115.5	118.4	119.5	120.0
Leather and leather products .....	56.7	57.4	57.8	57.8	57.4	59.5	59.7	62.2	61.4	60.0	61.1	60.5	61.3
<b>Service-producing</b> .....	129.0	129.8	131.0	131.0	131.5	131.9	131.7	132.3	133.1	132.9	133.3	133.6	133.0
<b>Transportation and public utilities</b> .....	106.5	107.0	107.8	107.7	107.9	108.5	107.6	109.0	109.7	109.9	110.9	111.0	109.7
<b>Wholesale trade</b> .....	116.4	117.1	117.4	116.9	117.4	117.7	117.6	117.5	118.2	117.3	118.8	118.9	118.9
<b>Retail trade</b> .....	118.0	118.9	120.4	120.3	121.6	121.2	120.4	121.2	122.4	122.5	121.9	121.5	119.9
<b>Finance, insurance, and real estate</b> .....	139.8	140.4	141.0	141.5	142.0	142.5	142.7	142.0	143.0	141.4	142.2	143.4	141.4
<b>Services</b> .....	147.8	148.6	150.1	150.2	150.3	151.2	151.7	152.5	152.9	152.9	153.5	154.4	155.0

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

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

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

Industry	1986	1987											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
	Hourly Earnings Index <sup>2</sup> (1977 = 100)												
<b>Total private (in current dollars)</b> .....	171.1	171.2	171.8	172.2	172.6	172.9	172.9	173.2	174.1	174.6	174.9	175.8	175.6
Mining .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Construction .....	154.3	152.8	152.4	153.8	153.7	154.1	155.0	154.3	154.7	154.0	154.7	156.7	154.7
Manufacturing .....	173.4	173.4	173.7	174.3	175.0	174.4	174.7	174.7	175.5	176.7	176.3	176.7	177.0
Transportation and public utilities .....	173.5	173.6	174.3	174.6	175.2	176.2	175.6	176.4	177.0	176.6	176.9	177.3	177.3
Wholesale trade .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Retail trade .....	159.3	156.9	158.9	159.0	159.8	160.2	160.3	160.9	161.5	162.7	162.2	162.3	162.1
Finance, insurance, and real estate .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Services .....	176.6	177.5	178.4	179.0	179.4	179.9	179.9	180.5	182.4	182.3	183.9	185.1	184.9
<b>Total private (in constant dollars)<sup>4</sup></b> .....	95.3	94.7	94.6	94.4	94.2	94.0	93.8	93.7	93.7	93.8	93.7	93.8	( <sup>3</sup> )
	Average hourly earnings												
<b>Total private</b> .....	\$8.84	\$8.86	\$8.88	\$8.91	\$8.91	\$8.95	\$8.94	\$8.96	\$9.02	\$9.02	\$9.08	\$9.13	\$9.11
Mining .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Construction .....	\$12.65	\$12.51	\$12.48	\$12.62	\$12.61	\$12.65	\$12.72	\$12.67	\$12.71	\$12.67	\$12.68	\$12.85	\$12.68
Manufacturing .....	9.79	9.79	9.81	9.83	9.86	9.88	9.88	9.87	9.93	10.02	10.00	10.01	10.02
Transportation and public utilities .....	11.83	11.86	11.89	11.92	11.96	12.05	11.97	12.04	12.08	12.04	12.09	12.11	12.09
Wholesale trade .....	9.42	9.47	9.50	9.53	9.52	9.59	9.58	9.59	9.68	9.65	9.72	9.76	9.70
Retail trade .....	6.09	6.05	6.04	6.05	6.08	6.09	6.10	6.11	6.13	6.19	6.16	6.17	6.19
Finance, insurance, and real estate .....	8.46	8.59	8.66	8.67	8.69	8.74	8.68	8.74	8.88	8.79	8.85	8.95	8.82
Services .....	8.25	8.30	8.35	8.38	8.39	8.41	8.40	8.44	8.54	8.53	8.60	8.66	8.64
	Average weekly earnings												
<b>Total private:</b>													
In current dollars .....	305.86	307.44	309.91	310.07	309.18	312.36	311.11	311.81	314.80	312.09	316.89	318.64	316.12
In constant (1977) dollars <sup>4</sup> .....	170.40	170.04	170.75	170.09	168.77	169.95	168.71	168.73	169.52	167.70	169.64	170.03	( <sup>3</sup> )

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

<sup>2</sup> Excludes the effects of two types of changes that are unrelated to underlying wage rate movements: Fluctuations in overtime in manufacturing and interindustry employment shifts.

<sup>3</sup> These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

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

<sup>5</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision. August and September data for the Hourly Earnings Index and average hourly earnings in transportation and public utilities have been corrected. Also see page 8.

**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		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Alabama</b> .....	41.1	41.7	41.7	\$8.66	\$8.80	\$8.84	\$355.93	\$366.06	\$368.63
Birmingham .....	41.1	41.1	41.3	8.67	8.98	9.09	358.34	369.08	375.42
Mobile .....	41.2	41.8	40.5	10.38	10.17	10.55	427.66	425.11	427.28
<b>Alaska</b> .....	36.2	39.5	40.2	13.35	12.70	12.29	483.27	501.65	494.06
<b>Arizona</b> .....	41.3	40.6	40.3	10.05	10.00	10.01	415.07	406.00	403.40
<b>Arkansas</b> .....	40.3	40.9	40.9	7.87	7.93	7.98	317.16	324.34	326.38
Fayetteville-Springdale .....	41.0	42.3	42.3	7.04	7.31	7.44	288.64	309.21	314.71
Fort Smith .....	41.3	39.8	40.3	8.21	8.34	8.34	339.07	331.93	336.10
Little Rock-North Little Rock .....	40.5	41.8	41.7	8.42	8.34	8.27	341.01	348.61	344.86
Pine Bluff .....	43.7	42.9	43.5	10.81	10.35	10.50	472.40	444.02	456.75
<b>California</b> .....	40.7	40.6	40.9	10.50	10.77	10.86	427.35	437.26	444.17
<b>Colorado</b> .....	39.2	40.0	40.5	9.86	9.96	9.75	386.51	398.40	394.88
Denver .....	38.8	40.4	40.1	10.98	10.80	10.74	426.02	436.32	430.67
<b>Connecticut</b> .....	42.3	42.4	42.3	10.26	10.49	10.57	434.00	444.78	447.11
Bridgeport-Milford .....	41.7	41.9	41.3	10.49	10.99	11.01	437.43	460.48	454.71
Hartford .....	42.2	41.9	42.0	10.53	10.69	10.75	444.37	447.91	451.50
New Britain .....	42.9	43.7	43.5	10.70	10.90	10.88	459.03	476.33	473.28
New Haven-Meriden .....	41.5	40.2	40.2	9.86	10.14	10.13	409.19	407.63	407.23
Stamford .....	41.3	40.3	40.2	11.09	11.41	11.41	458.02	459.82	458.68
Waterbury .....	43.3	42.9	43.2	8.60	9.05	9.14	372.38	388.25	394.85
<b>Delaware</b> .....	41.7	40.1	39.8	10.29	11.36	10.73	429.09	455.54	427.05
Wilmington .....	41.8	39.5	39.5	12.21	13.55	13.55	510.38	535.23	535.23
<b>District of Columbia:</b>									
Washington MSA .....	39.2	38.6	37.6	10.32	10.86	11.02	404.54	419.20	414.35
<b>Florida</b> .....	41.2	40.4	41.0	8.09	8.17	8.24	333.31	330.07	337.84
Fort Lauderdale-Hollywood-Pompano Beach .....	42.9	41.5	43.0	7.93	8.05	8.16	340.20	334.08	350.88
Jacksonville .....	41.8	41.4	41.5	8.82	8.83	8.86	368.68	365.56	367.69
Lakeland-Winter Haven .....	40.4	42.0	40.9	7.76	8.00	8.08	313.50	336.00	330.47
Miami-Hialeah .....	40.2	38.6	40.0	7.08	7.08	7.08	284.62	273.29	283.20
Orlando .....	41.6	39.6	39.6	8.45	8.57	8.77	351.52	339.37	347.29
Pensacola .....	43.8	40.9	40.3	10.27	9.87	9.79	449.83	403.68	394.54
Tampa-St. Petersburg-Clearwater .....	40.7	40.6	40.7	7.55	7.71	7.76	307.29	313.03	315.83
West Palm Beach-Boca Raton-DeLray Beach .....	42.6	40.2	42.5	8.93	9.23	9.43	380.42	371.05	400.78
<b>Georgia</b> .....	41.2	42.6	42.0	8.35	8.43	8.45	344.02	359.12	354.90
Atlanta .....	41.7	42.5	42.1	10.23	10.12	10.12	426.59	430.10	426.05
Savannah .....	44.8	45.6	46.8	10.78	11.00	11.02	482.94	501.60	515.74
<b>Hawaii</b> .....	39.7	40.2	40.5	9.06	9.47	9.51	359.66	380.69	385.16
Honolulu .....	40.0	39.4	39.6	9.41	9.68	9.77	376.40	381.39	386.89
<b>Idaho</b> .....	38.6	38.1	38.2	9.79	9.68	9.81	377.89	368.81	374.74
<b>Illinois</b> .....	41.3	41.5	41.9	10.74	10.81	10.81	443.56	448.62	452.94
Aurora-Elgin .....	42.2	43.0	42.9	10.09	10.74	10.65	425.80	461.82	456.89
Bloomington-Normal .....	40.7	41.6	41.5	10.65	11.01	10.92	433.46	458.02	453.18
Champaign-Urbana-Rantoul .....	42.6	40.0	41.3	9.50	8.96	9.09	404.70	358.40	375.42
Chicago .....	42.3	42.5	43.0	10.53	10.65	10.71	445.42	452.63	460.53
Davenport-Rock Island-Moline .....	41.1	40.0	40.6	12.14	12.68	12.76	498.95	507.20	518.06
Decatur .....	41.6	41.7	41.7	13.85	14.08	14.15	576.16	587.14	590.06
Joliet .....	42.9	41.4	41.5	11.89	11.91	11.86	510.08	493.07	492.19
Kankakee .....	43.2	39.8	39.8	10.04	9.63	9.79	433.73	383.27	389.64
Lake County .....	40.6	40.9	41.3	10.79	11.10	11.19	438.07	453.99	462.15
Peoria .....	41.6	46.2	45.6	12.80	13.22	13.19	532.48	610.76	601.46
Rockford .....	43.7	41.8	41.8	11.16	11.25	11.19	487.69	470.25	467.74
Springfield .....	42.2	42.5	42.2	11.84	12.16	11.89	499.65	516.80	501.76

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		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Indiana</b> .....	41.7	42.3	42.3	\$10.81	\$11.10	\$11.21	\$450.78	\$469.53	\$474.18
<b>Iowa</b> .....	40.7	42.4	42.4	10.08	10.65	10.58	410.26	451.56	448.59
Cedar Rapids .....	40.0	41.5	42.1	11.26	11.83	11.77	450.40	490.95	495.52
Des Moines .....	40.0	42.8	43.1	11.15	11.89	11.91	446.00	508.89	513.32
Dubuque .....	40.4	42.8	42.8	9.11	11.98	11.35	368.04	512.74	485.78
Sioux City .....	38.3	48.0	45.9	8.57	7.96	8.00	328.23	382.08	367.20
<b>Kansas</b> .....	40.5	41.0	40.9	10.00	10.06	10.10	405.00	412.46	413.09
Topeka .....	39.5	42.3	42.7	10.85	11.61	11.58	428.58	491.10	494.47
Wichita .....	40.8	41.0	41.1	10.85	10.91	10.87	442.68	447.31	446.76
<b>Kentucky</b> .....	40.0	41.3	41.4	10.11	10.12	10.17	404.40	417.96	421.04
Lexington-Fayette .....	39.3	40.0	40.5	10.36	10.35	10.36	407.15	414.00	419.58
Louisville .....	42.2	42.7	43.0	11.14	11.60	11.91	470.11	495.32	512.13
<b>Louisiana</b> .....	42.5	42.3	42.1	10.56	10.76	10.62	448.80	455.15	447.10
Baton Rouge .....	42.7	43.1	42.9	12.07	12.34	12.25	515.39	531.85	525.53
New Orleans .....	41.3	40.6	41.0	10.58	10.60	10.42	436.95	430.36	427.22
Shreveport .....	41.4	40.2	38.8	11.56	11.22	11.42	478.58	451.04	443.10
<b>Maine</b> .....	40.8	41.9	41.2	8.93	8.84	9.06	364.34	370.40	373.27
Lewiston-Auburn .....	39.0	39.9	40.0	7.32	7.43	7.52	285.48	296.46	300.80
Portland .....	39.4	42.0	43.2	9.54	9.18	9.01	375.88	385.56	389.23
<b>Maryland</b> .....	41.0	41.1	40.4	10.06	10.21	10.13	412.46	419.63	409.25
Baltimore MSA .....	41.3	42.5	42.0	10.55	10.97	10.91	435.72	466.23	458.22
<b>Massachusetts</b> .....	41.1	41.1	40.9	9.40	10.00	10.04	386.34	411.00	410.64
Boston .....	40.6	40.9	41.0	10.30	10.81	10.85	418.18	442.13	444.85
Springfield .....	42.4	41.9	42.4	9.01	9.39	9.37	382.02	393.44	397.29
Worcester .....	40.4	40.7	40.4	9.53	9.82	9.86	385.01	399.67	398.34
<b>Michigan</b> .....	42.4	42.6	42.8	12.76	12.97	13.03	541.02	552.52	557.68
Ann Arbor .....	44.4	45.5	46.0	13.91	14.17	14.17	617.60	644.73	651.82
Battle Creek .....	40.8	43.1	43.4	13.64	13.63	13.90	556.51	587.45	603.26
Detroit .....	43.8	43.6	44.1	13.68	14.07	14.10	599.18	613.45	621.81
Flint .....	42.6	40.8	41.5	14.45	15.61	15.60	615.57	636.89	647.40
Grand Rapids .....	40.4	41.0	40.7	10.69	11.18	11.15	431.88	458.38	453.80
Jackson .....	42.0	42.4	42.6	10.06	9.98	10.10	422.52	423.15	430.26
Kalamazoo .....	43.0	43.8	43.4	11.89	12.54	12.54	511.27	549.25	544.24
Lansing-East Lansing .....	42.8	42.1	41.4	14.20	13.34	13.83	607.76	561.61	572.58
Muskegon .....	39.8	41.6	40.9	11.53	11.82	11.88	458.89	491.71	485.89
Saginaw-Bay City-Midland .....	42.8	43.1	42.9	13.90	14.34	14.48	594.92	618.05	621.19
<b>Minnesota</b> .....	40.4	41.3	41.1	10.16	10.47	10.42	410.46	432.41	428.26
Duluth .....	36.6	38.0	36.6	10.74	10.86	10.75	393.08	412.68	393.45
Minneapolis-St. Paul .....	40.4	41.5	41.2	10.96	11.12	11.05	442.78	461.48	455.26
St. Cloud .....	37.8	39.1	39.4	9.09	9.58	9.85	343.80	374.58	388.09
<b>Mississippi</b> .....	40.1	40.7	40.7	7.51	7.58	7.64	301.15	308.51	310.95
Jackson .....	39.7	40.9	41.2	8.33	8.60	8.76	330.70	351.74	360.91
<b>Missouri</b> .....	40.3	41.4	41.3	9.76	9.81	9.88	393.33	406.13	408.04
Kansas City .....	41.0	41.3	41.7	11.23	11.12	11.16	480.43	459.26	465.37
St. Joseph .....	40.7	41.8	42.7	9.49	9.89	10.37	386.24	413.40	442.80
St. Louis .....	40.6	41.2	41.5	11.32	11.58	11.63	459.59	477.10	482.65
Springfield .....	41.1	39.3	39.6	8.57	8.49	8.54	352.23	333.66	338.18
<b>Montana</b> .....	39.1	39.5	38.7	10.73	10.25	10.16	419.54	404.88	393.19
<b>Nebraska</b> .....	40.0	41.4	42.0	9.38	9.44	9.48	375.20	390.82	398.18
Lincoln .....	41.3	40.3	40.6	9.90	10.31	10.28	408.87	415.49	417.37
Omaha .....	39.9	40.5	41.1	9.99	10.10	10.13	398.60	409.05	416.34
<b>Nevada</b> .....	41.2	40.2	40.5	9.48	9.92	9.85	390.58	398.78	398.93
Las Vegas .....	40.0	39.5	39.5	11.19	12.60	12.16	447.60	505.60	480.32

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		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>New Hampshire</b> .....	42.0	41.0	41.4	\$8.97	\$9.39	\$9.44	\$376.74	\$384.99	\$390.82
Nashua .....	43.0	41.3	41.4	10.85	11.81	11.93	466.55	487.75	493.90
<b>New Jersey</b> .....	41.7	41.1	41.3	10.21	10.56	10.61	425.78	434.02	438.19
<b>New Mexico</b> .....	39.8	40.1	39.3	8.78	8.89	8.85	349.44	358.49	347.81
Albuquerque .....	40.1	41.1	40.8	9.14	9.17	9.10	388.51	378.89	371.28
<b>New York</b> .....	40.4	39.9	40.3	9.98	10.15	10.13	402.38	404.99	408.24
Albany-Schenectady-Troy .....	40.9	40.3	40.8	10.29	10.80	10.75	420.88	427.18	438.45
Binghamton .....	40.7	40.8	41.0	9.05	9.27	9.28	366.34	378.36	379.66
Buffalo .....	42.9	42.0	42.0	11.82	11.93	11.84	507.08	501.06	488.88
Elmira .....	42.1	40.9	42.0	9.49	9.60	9.53	399.53	392.64	400.26
Glens Falls .....	42.3	( <sup>1</sup> )	( <sup>1</sup> )	9.72	( <sup>1</sup> )	( <sup>1</sup> )	411.16	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	40.7	39.8	39.8	10.22	10.84	10.83	415.95	429.28	431.03
New York PMSA .....	37.9	37.2	37.4	9.30	9.70	9.61	352.47	360.84	359.41
New York City .....	37.5	36.8	37.1	9.12	9.52	9.40	342.00	350.34	348.74
Niagara Falls .....	42.3	40.7	42.8	12.79	13.32	13.41	541.02	542.12	573.95
Orange County .....	39.0	38.1	38.9	8.14	8.08	8.03	317.46	307.85	312.37
Poughkeepsie .....	42.0	40.2	40.3	9.09	9.71	9.56	381.78	390.34	385.27
Rochester .....	42.4	42.5	43.0	11.99	12.00	12.19	508.38	510.00	524.17
Rockland County .....	41.0	38.2	38.2	9.78	10.31	10.37	400.98	393.64	396.13
Syracuse .....	41.9	42.2	42.7	11.22	11.33	11.35	470.12	478.13	484.65
Utica-Rome .....	42.8	41.9	43.1	9.38	9.37	9.61	399.59	392.60	414.19
Westchester County .....	39.7	40.2	40.4	10.47	10.90	11.06	415.66	438.18	448.82
<b>North Carolina</b> .....	41.3	41.6	41.8	7.82	7.86	7.92	314.71	326.98	331.06
Asheville .....	42.5	42.9	43.4	7.71	7.89	8.02	327.68	338.48	348.07
Charlotte-Gastonia-Rock Hill .....	42.4	42.6	42.9	7.91	8.16	8.25	335.38	347.82	353.93
Greensboro-Winston-Salem-High Point .....	40.9	41.2	41.2	8.47	8.63	8.71	346.42	355.58	358.85
Raleigh-Durham .....	41.8	42.2	42.6	8.65	8.94	8.95	361.57	377.27	381.27
<b>North Dakota</b> .....	38.5	38.9	39.5	8.28	8.45	8.46	318.78	326.71	334.17
Fargo-Moorhead .....	38.4	39.9	40.2	8.62	8.53	8.71	331.01	340.35	350.14
<b>Ohio</b> .....	42.6	42.9	43.2	11.67	11.78	11.64	497.14	504.50	511.49
Akron .....	43.2	43.2	43.3	11.38	11.29	11.25	491.82	487.73	487.13
Canton .....	41.2	41.8	42.1	11.44	11.40	11.31	471.33	478.52	478.15
Cincinnati .....	43.3	43.0	43.3	10.98	10.87	11.02	474.57	487.41	477.17
Cleveland .....	43.1	43.3	43.9	11.81	11.59	11.68	500.39	501.85	512.75
Columbus .....	41.3	42.3	42.4	11.33	11.44	11.49	467.93	483.91	487.18
Dayton-Springfield .....	42.4	42.6	42.8	11.83	11.91	11.96	505.83	507.37	509.50
Toledo .....	42.1	42.1	42.9	12.47	12.75	12.83	524.99	536.78	550.41
Youngstown-Warren .....	41.9	42.8	42.7	13.32	13.24	13.39	558.11	566.87	571.75
<b>Oklahoma</b> .....	41.7	40.8	41.8	9.76	10.00	10.10	406.99	408.00	422.18
Oklahoma City .....	40.7	40.1	40.9	10.91	11.00	11.17	444.04	441.10	456.85
Tulsa .....	41.0	41.6	42.0	10.59	10.67	10.82	434.19	443.87	454.44
<b>Oregon</b> .....	39.4	38.8	39.7	10.52	10.45	10.65	414.49	405.48	422.81
Eugene-Springfield .....	39.9	37.9	40.4	10.49	10.63	10.85	418.55	402.68	438.34
Portland .....	39.4	39.4	39.9	10.85	10.78	10.91	427.49	424.73	435.31
Salem .....	37.0	37.7	37.6	9.08	8.60	9.07	335.96	324.22	341.03

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		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Pennsylvania</b> .....	40.8	41.0	41.4	\$9.80	\$10.08	\$10.14	\$399.84	\$413.28	\$419.80
Allentown-Bethlehem .....	39.3	39.9	40.3	10.25	10.44	10.42	402.83	416.56	419.93
Altoona .....	39.4	38.7	39.9	8.71	8.52	8.52	343.17	329.72	339.95
Beaver County .....	40.3	41.5	42.3	11.16	11.15	10.95	449.75	462.73	463.19
Erie .....	41.3	42.1	42.4	10.21	10.31	10.41	421.67	434.05	441.38
Harrisburg-Lebanon-Carlisle .....	40.0	39.8	40.0	9.24	9.39	9.61	369.60	373.72	384.40
Johnstown .....	38.9	39.8	41.4	8.44	8.45	8.85	328.32	336.31	366.39
Lancaster .....	40.8	40.6	41.2	9.58	9.77	9.85	390.86	396.66	405.82
Philadelphia PMSA .....	41.1	40.4	41.0	10.49	10.97	10.96	431.14	443.19	449.36
Pittsburgh .....	42.1	42.2	42.4	10.98	11.30	11.35	462.26	476.86	481.24
Reading .....	41.4	41.9	41.9	9.86	10.30	10.40	408.20	431.57	435.76
Scranton-Wilkes-Barre .....	38.2	38.9	38.8	8.57	8.79	8.82	327.37	341.93	342.22
Sharon .....	42.8	42.2	43.2	11.61	11.34	11.53	496.91	478.55	498.10
State College .....	39.4	39.0	39.2	8.00	8.34	8.39	315.20	325.28	329.89
Williamsport .....	40.2	42.1	41.4	8.63	8.51	8.66	346.93	358.27	358.52
York .....	42.2	42.4	43.1	9.20	9.40	9.59	388.24	398.58	413.33
<b>Rhode Island</b> .....	40.6	40.0	39.5	8.01	8.32	8.35	325.21	332.80	329.83
Pawtucket-Woonsocket-Attleboro .....	40.5	40.2	40.2	7.46	7.84	7.89	302.13	315.17	317.18
Providence .....	39.4	40.1	39.6	8.00	8.25	8.28	315.20	330.83	327.89
<b>South Carolina</b> .....	41.6	41.8	42.1	7.99	8.13	8.16	332.38	339.83	343.54
Charleston .....	42.4	41.5	42.3	9.23	8.99	9.01	391.35	373.08	381.12
Columbia .....	40.2	40.8	41.5	7.77	7.95	8.01	312.35	324.36	332.42
Greenville-Spartanburg .....	41.9	41.5	41.8	7.87	8.04	8.09	329.75	333.66	338.18
<b>South Dakota</b> .....	41.5	41.8	42.8	7.79	7.89	7.91	323.29	329.80	338.55
Sioux Falls .....	46.7	45.8	48.3	7.61	7.91	7.82	355.39	362.28	362.07
<b>Tennessee</b> .....	41.6	41.8	42.2	8.73	8.73	8.77	363.17	364.91	370.09
Chattanooga .....	42.2	42.2	41.6	7.84	7.91	7.95	330.85	333.80	330.72
Johnson City-Kingsport-Bristol .....	44.4	41.1	41.2	9.07	9.28	9.31	402.71	381.41	383.57
Knoxville .....	40.0	41.0	41.5	9.05	9.17	8.62	362.00	375.97	357.73
Memphis .....	41.6	41.7	42.6	8.90	8.86	8.94	370.24	369.46	380.84
Nashville .....	41.0	41.6	42.1	9.86	10.27	10.41	404.26	427.23	438.28
<b>Texas</b> .....	41.3	42.0	42.2	9.72	9.89	9.88	401.44	415.36	416.94
Dallas .....	41.7	42.2	41.8	9.53	9.68	9.73	397.40	408.50	406.71
Ft. Worth-Arlington .....	41.6	40.9	41.9	9.83	10.06	10.04	408.93	411.45	420.68
Houston .....	43.3	43.9	43.8	11.10	11.19	11.14	480.63	491.24	487.93
San Antonio .....	42.0	39.2	40.1	7.32	7.63	7.63	307.44	299.10	305.96
<b>Utah</b> .....	40.2	39.8	41.3	9.95	9.76	9.72	399.99	388.45	401.44
Salt Lake City-Ogden .....	41.7	40.3	41.9	9.85	9.88	9.77	410.75	398.16	409.36
<b>Vermont</b> .....	40.4	40.6	40.6	8.88	9.26	9.24	358.75	375.96	375.14
Burlington .....	43.5	40.2	40.2	9.61	10.25	10.47	418.04	412.05	420.89
<b>Virginia</b> .....	40.9	41.6	41.2	8.94	9.12	9.16	365.65	379.39	377.39
Bristol .....	41.8	41.6	43.9	7.42	7.74	7.83	310.16	321.98	343.74
Charlottesville .....	41.7	42.8	41.9	7.46	7.52	7.49	311.08	321.86	313.83
Danville .....	41.6	42.2	42.4	8.33	8.46	8.51	346.53	357.88	360.82
Lynchburg .....	41.9	41.1	41.4	8.58	8.68	8.90	359.50	356.75	368.46
Northern Virginia .....	42.0	40.1	37.5	9.52	10.19	10.01	399.84	408.62	375.38
Richmond-Petersburg .....	41.1	41.8	41.9	11.38	11.71	11.84	467.72	489.48	496.10
Roanoke .....	41.0	41.7	41.9	8.42	8.76	8.90	345.22	365.29	372.91

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		
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Washington</b> .....	39.7	40.1	40.3	\$11.73	\$11.61	\$11.81	\$465.68	\$465.56	\$475.94
<b>West Virginia</b> .....	41.1	41.1	41.7	10.48	10.71	10.79	430.73	440.18	449.94
Charleston .....	42.7	43.8	43.5	13.32	13.48	13.46	568.78	590.42	585.51
Huntington-Ashland .....	39.9	40.4	41.3	11.77	12.20	12.36	469.82	492.88	510.47
Parkersburg-Marietta .....	43.8	42.0	42.8	12.48	11.92	11.87	546.62	500.64	508.04
Wheeling .....	41.0	43.0	42.4	11.40	12.81	12.27	467.40	550.83	520.25
<b>Wisconsin</b> .....	41.9	42.0	42.5	10.43	10.60	10.66	437.02	445.20	453.05
Appleton-Oshkosh .....	42.8	42.8	43.3	10.55	10.92	11.03	451.54	467.38	477.60
Eau Claire .....	41.1	41.0	42.2	10.45	10.84	10.80	429.50	444.44	455.78
Green Bay .....	42.1	42.2	42.2	11.39	11.20	11.42	479.52	472.64	481.92
Janesville-Beloit .....	41.0	40.3	40.0	12.24	11.96	11.89	501.84	481.99	475.60
Kenosha .....	41.2	41.6	40.8	11.71	12.73	12.48	482.45	529.57	506.69
La Crosse .....	40.1	40.6	41.8	9.35	9.09	8.96	374.94	369.05	374.53
Madison .....	40.5	41.2	40.9	9.76	9.77	9.76	395.28	402.52	399.18
Milwaukee .....	41.8	42.1	42.8	11.72	11.73	11.80	489.90	493.83	505.04
Racine .....	41.5	41.1	43.0	10.77	11.16	11.22	446.96	458.68	482.46
Sheboygan .....	42.0	42.8	42.8	9.59	9.46	9.56	402.78	404.89	409.17
Wausau .....	43.1	43.3	43.0	9.71	10.10	10.09	418.50	437.33	433.87
<b>Wyoming</b> .....	38.7	41.4	38.2	9.55	9.20	9.55	369.59	380.88	364.81
<b>Puerto Rico</b> .....	39.4	39.9	40.2	5.38	5.40	5.39	211.97	215.46	218.68
<b>Virgin Islands</b> .....	43.0	41.3	43.5	9.36	9.85	10.14	402.48	406.80	441.09

<sup>1</sup> Not available.

<sup>P</sup> = preliminary.

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

publication. All State and area data have been adjusted to March 1986 benchmarks.

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Oct. 1987 <sup>r</sup>	Nov. 1987 <sup>r</sup>	Dec. 1987 <sup>p</sup>	Dec. 1986 to Dec. 1987 <sup>p</sup>	Oct. 1987 to Nov. 1987 <sup>r</sup>	Nov. 1987 to Dec. 1987 <sup>p</sup>
Total .....	192,235	192,314	192,789	3.2	0.0	0.2
Private sector .....	157,887	158,166	158,017	3.4	.2	-.1
Mining .....	1,681	1,666	1,683	6.5	-.9	1.0
Construction .....	10,084	9,996	10,212	6.9	-.9	2.2
Manufacturing .....	41,078	41,245	41,289	2.7	.4	.1
Durable goods .....	24,427	24,525	24,514	2.3	.4	.0
Nondurable goods .....	16,651	16,720	16,775	3.2	.4	.3
Transportation and public utilities .....	11,114	11,167	11,091	3.2	.5	-.7
Wholesale trade .....	11,634	11,631	11,653	2.5	.0	.2
Retail trade .....	28,051	27,942	27,535	2.0	-.4	-1.5
Finance, insurance, and real estate .....	12,516	12,600	12,518	2.3	.7	-.7
Services .....	41,731	41,919	42,037	4.8	.5	.3
Government .....	34,347	34,148	34,771	2.0	-.6	1.8

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

<sup>p</sup> = preliminary.

<sup>r</sup> = revised.

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

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2134-1, chapter 13, Productivity Measures: Business Economy and Major Sectors. 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**

(1977=100)

Item	Annual average		Quarterly index										
	1985	1986	1985				1986				1987		
			I	II	III	IV	I	II	III	IV	I	II	III
<b>Business sector</b>													
Output per hour of all persons .....	107.5	109.5	106.5	107.2	108.2	107.9	109.5	109.7	109.6	109.6	109.7	110.1	111.1
Output .....	123.9	128.0	122.2	123.3	124.7	125.3	127.3	127.5	128.1	129.0	130.2	131.1	132.9
Hours .....	115.2	116.9	114.7	115.0	115.2	116.1	116.3	116.3	116.9	117.8	118.7	119.1	119.5
Compensation per hour .....	175.9	182.8	172.4	174.6	177.0	179.3	180.7	182.2	183.6	185.2	185.8	187.3	189.2
Real compensation per hour .....	99.1	101.0	98.5	98.6	99.4	99.7	100.1	101.3	101.4	101.6	100.7	100.3	100.3
Unit labor costs .....	163.6	166.9	161.9	162.8	163.6	166.1	165.0	166.2	167.5	169.0	169.4	170.2	170.2
Unit nonlabor payments .....	160.3	163.8	158.7	160.4	161.8	160.2	163.1	163.9	165.7	162.4	166.0	168.6	171.3
Implicit price deflator .....	162.4	165.8	160.8	162.0	163.0	164.0	164.3	165.4	166.9	166.7	168.2	169.6	170.6
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	105.8	107.5	105.2	105.7	106.4	105.9	107.7	107.7	107.5	107.5	107.6	108.0	108.9
Output .....	123.6	127.5	122.0	123.1	124.3	124.9	126.9	127.1	127.6	128.5	129.7	130.7	132.5
Hours .....	116.8	118.6	115.9	116.4	116.9	117.9	117.9	118.0	118.7	119.6	120.6	121.1	121.6
Compensation per hour .....	175.2	182.0	172.2	174.1	176.2	178.3	180.0	181.3	182.6	184.4	184.9	186.3	188.0
Real compensation per hour .....	98.7	100.6	98.4	98.3	98.9	99.2	99.7	100.8	100.9	101.2	100.2	99.7	99.7
Unit labor costs .....	165.6	169.3	163.6	164.7	165.7	168.3	167.2	168.4	169.8	171.5	171.8	172.5	172.6
Unit nonlabor payments .....	161.3	165.2	159.5	161.5	163.4	160.8	164.7	165.2	167.0	163.9	167.4	169.2	172.2
Implicit price deflator .....	164.1	167.8	162.2	163.6	164.9	165.7	166.4	167.3	168.8	168.8	170.3	171.4	172.5
<b>Manufacturing</b>													
Output per hour of all persons .....	124.2	128.8	121.3	124.1	125.3	126.1	127.6	128.4	129.3	129.8	130.8	132.9	134.1
Output .....	122.5	125.9	120.6	122.2	123.2	124.1	125.2	125.3	126.0	127.1	128.4	129.9	132.2
Hours .....	98.7	97.8	99.4	98.5	98.3	98.4	98.1	97.5	97.5	97.9	98.1	97.7	98.6
Compensation per hour .....	176.9	182.7	173.3	176.1	178.0	180.2	181.0	182.1	183.1	184.3	183.9	184.8	185.4
Real compensation per hour .....	99.6	100.9	99.0	99.5	99.9	100.2	100.3	101.2	101.2	101.2	99.6	98.9	98.3
Unit labor costs .....	142.4	141.8	142.9	142.0	142.1	142.9	141.9	141.8	141.7	142.0	140.5	139.0	138.2
<b>Durable goods</b>													
Output per hour of all persons .....	130.1	136.8	126.1	129.6	131.6	133.1	135.3	136.0	137.5	138.4	139.9	141.7	142.9
Output .....	129.9	134.1	127.0	129.3	130.8	132.2	133.6	133.2	134.1	135.3	136.9	137.8	140.1
Hours .....	99.8	98.0	100.7	99.8	99.4	99.4	98.8	98.0	97.5	97.8	97.8	97.2	98.0
Compensation per hour .....	175.4	181.4	171.4	174.4	176.6	179.4	179.9	180.8	181.6	183.1	182.2	182.9	183.4
Real compensation per hour .....	98.8	100.2	97.9	98.5	99.2	99.8	99.7	100.5	100.3	100.5	98.7	97.9	97.3
Unit labor costs .....	134.9	132.6	135.9	134.6	134.2	134.8	133.0	132.9	132.1	132.3	130.2	129.1	128.3
<b>Nondurable goods</b>													
Output per hour of all persons .....	115.1	116.8	113.9	115.4	115.6	115.4	116.0	117.0	117.0	117.1	117.4	119.9	121.2
Output .....	111.6	113.7	110.9	111.5	111.8	112.1	112.7	113.4	113.9	114.9	115.8	118.1	120.5
Hours .....	97.0	97.4	97.4	96.6	96.8	97.1	97.2	96.9	97.3	98.1	98.6	98.5	99.5
Compensation per hour .....	178.9	184.8	176.1	178.6	180.0	181.2	182.7	184.3	185.8	186.5	186.9	188.2	189.1
Real compensation per hour .....	100.8	102.1	100.5	100.8	101.0	100.8	101.2	102.4	102.7	102.4	101.2	100.7	100.3
Unit labor costs .....	155.5	158.3	154.6	154.7	155.7	157.0	157.5	157.5	158.8	159.3	159.1	156.9	156.1
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	108.2	109.9	107.0	107.7	109.2	108.9	109.8	109.7	109.9	110.5	109.7	109.9	110.6
Output .....	126.1	129.4	124.0	125.4	127.4	127.7	129.1	128.8	129.3	130.4	130.9	131.6	133.4
Hours .....	116.5	117.7	115.9	116.4	116.6	117.3	117.6	117.4	117.6	118.0	119.3	119.8	120.6
Compensation per hour .....	172.8	178.9	169.9	171.8	173.8	175.7	177.2	178.4	179.5	181.0	180.8	182.0	183.4
Real compensation per hour .....	97.4	98.9	97.0	97.0	97.6	97.7	98.2	99.1	99.2	99.3	98.0	97.4	97.2
Total unit costs .....	164.4	167.7	163.6	164.3	163.7	166.0	166.3	167.2	168.5	168.7	169.7	170.9	171.2
Unit labor costs .....	159.7	162.8	158.9	159.5	159.1	161.4	161.5	162.6	163.2	163.8	164.8	165.6	165.8
Unit nonlabor costs .....	178.3	182.2	177.5	178.7	177.5	179.4	180.7	180.6	184.2	183.2	184.1	186.6	187.2
Unit profits .....	133.9	129.3	132.0	132.2	142.5	128.7	129.7	129.5	130.6	127.7	132.2	132.9	140.5
Implicit price deflator .....	160.7	163.1	159.8	160.5	161.2	161.5	161.9	162.7	164.0	163.8	165.2	166.3	167.5

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 1986	III 1986	IV 1986	I 1987	II 1987	III 1987	II 1986	III 1986	IV 1986	I 1987	II 1987	III 1987
<b>Business sector</b>												
Output per hour of all persons .....	0.6	-0.3	-0.1	0.5	1.4	4.0	2.3	1.3	1.5	0.2	0.4	1.4
Output .....	.7	1.8	3.0	3.5	3.0	5.4	3.4	2.7	2.9	2.3	2.8	3.7
Hours .....	.1	2.1	3.1	3.0	1.6	1.4	1.1	1.5	1.4	2.1	2.5	2.3
Compensation per hour .....	3.5	3.0	3.6	1.4	3.3	4.0	4.4	3.7	3.3	2.8	2.8	3.1
Real compensation per hour .....	4.8	.5	.9	-3.7	-1.6	.2	2.7	2.0	1.9	.6	-1.0	-1.1
Unit labor costs .....	2.8	3.3	3.7	.9	1.8	.1	2.1	2.4	1.8	2.7	2.4	1.6
Unit nonlabor payments .....	2.1	4.5	-7.7	9.0	6.4	6.8	2.2	2.4	1.4	1.8	2.8	3.4
Implicit price deflator .....	2.6	3.7	-.5	3.7	3.4	2.4	2.1	2.4	1.7	2.3	2.6	2.2
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	.1	-.6	.0	.4	1.4	3.6	1.9	1.1	1.5	-.1	.3	1.3
Output .....	.6	1.7	2.9	3.8	3.2	5.5	3.3	2.6	2.9	2.2	2.9	3.8
Hours .....	.6	2.3	2.9	3.4	1.7	1.8	1.4	1.6	1.4	2.3	2.6	2.5
Compensation per hour .....	2.9	2.8	4.0	1.1	3.0	3.8	4.1	3.6	3.4	2.7	2.7	3.0
Real compensation per hour .....	4.2	.4	1.3	-3.9	-1.8	-.1	2.5	1.9	2.0	.5	-1.0	-1.2
Unit labor costs .....	2.8	3.5	4.0	.8	1.5	.2	2.2	2.5	1.9	2.8	2.4	1.6
Unit nonlabor payments .....	1.3	4.2	-7.2	8.8	4.6	7.2	2.3	2.2	1.9	1.6	2.4	3.2
Implicit price deflator .....	2.3	3.7	.0	3.4	2.6	2.6	2.3	2.4	1.9	2.4	2.4	2.1
<b>Manufacturing</b>												
Output per hour of all persons .....	2.6	2.7	1.7	3.2	6.4	3.8	3.5	3.2	2.9	2.5	3.5	3.8
Output .....	.2	2.3	3.7	4.0	4.7	7.4	2.5	2.3	2.4	2.5	3.7	4.9
Hours .....	-2.3	-.4	2.0	.8	-1.6	3.5	-.9	-.9	-.5	.0	.2	1.1
Compensation per hour .....	2.5	2.2	2.7	-1.0	2.0	1.4	3.4	2.9	2.3	1.6	1.5	1.3
Real compensation per hour .....	3.8	-.2	.0	-6.0	-2.8	-2.3	1.8	1.2	.9	-.7	-2.3	-2.8
Unit labor costs .....	-.1	-.5	.9	-4.1	-4.2	-2.3	-.1	-.3	-.6	-1.0	-2.0	-2.4
<b>Durable goods</b>												
Output per hour of all persons .....	2.1	4.4	2.6	4.5	5.3	3.5	4.9	4.5	4.0	3.4	4.2	4.0
Output .....	-1.1	2.7	3.8	4.5	2.8	6.8	3.0	2.5	2.4	2.4	3.4	4.4
Hours .....	-3.2	-1.7	1.1	.0	-2.4	3.1	-1.8	-1.9	-1.5	-.9	-.7	.4
Compensation per hour .....	1.9	1.7	3.4	-1.9	1.6	1.1	3.6	2.8	2.1	1.3	1.2	1.0
Real compensation per hour .....	3.3	-.7	.7	-6.8	-3.1	-2.7	2.0	1.1	.7	-.9	-2.5	-3.0
Unit labor costs .....	-.2	-2.6	.8	-6.1	-3.5	-2.4	-1.2	-1.6	-1.8	-2.1	-2.9	-2.8
<b>Nondurable goods</b>												
Output per hour of all persons .....	3.6	.1	.4	1.1	8.7	4.2	1.3	1.3	1.4	1.3	2.5	3.6
Output .....	2.5	1.7	3.6	3.1	8.2	8.6	1.7	1.8	2.5	2.7	4.1	5.8
Hours .....	-1.0	1.6	3.3	1.9	-.5	4.2	.4	.6	1.1	1.4	1.6	2.2
Compensation per hour .....	3.6	3.4	1.5	.7	2.8	2.0	3.2	3.3	2.9	2.3	2.1	1.8
Real compensation per hour .....	5.0	.9	-1.1	-4.4	-2.0	-1.8	1.6	1.6	1.6	1.1	-1.6	-2.3
Unit labor costs .....	.0	3.3	1.2	-.5	-5.4	-2.1	1.8	2.0	1.5	1.0	-.4	-1.7
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-.2	.9	2.1	-2.9	.7	2.6	1.8	.7	1.5	.0	.2	.6
Output .....	-.9	1.6	3.4	1.5	2.2	5.5	2.7	1.5	2.1	1.4	2.2	3.2
Hours .....	-.6	.7	1.3	4.6	1.6	2.8	.8	.8	.6	1.5	2.0	2.6
Compensation per hour .....	2.6	2.5	3.5	-.5	2.6	3.0	3.9	3.3	3.0	2.0	2.0	2.2
Real compensation per hour .....	4.0	.0	.6	-5.5	-2.2	-.8	2.2	1.6	1.6	-.2	-1.7	-1.9
Total unit costs .....	2.0	3.3	.3	2.4	2.9	.6	1.7	2.9	1.6	2.0	2.2	1.6
Unit labor costs .....	2.9	1.5	1.3	2.5	2.0	.4	2.0	2.6	1.5	2.1	1.8	1.6
Unit nonlabor costs .....	-.2	8.2	-2.3	2.2	5.4	1.2	1.0	3.8	2.1	1.9	3.3	1.6
Unit profits .....	-.5	3.3	-8.5	14.7	2.1	25.0	-2.1	-8.4	-.8	1.9	2.6	7.6
Implicit price deflator .....	1.8	3.3	-.5	3.5	2.8	2.8	1.4	1.7	1.4	2.0	2.3	2.1

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. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1988	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Alabama</b> .....	1,898.9	1,930.2	1,913.2	181.6	134.3	131.1	9.6	7.0	8.9
Birmingham .....	444.6	455.1	452.1	36.6	27.0	26.6	8.2	5.9	5.9
Huntsville .....	128.7	132.6	131.8	9.4	6.3	5.9	7.3	4.7	4.5
Mobile .....	211.9	213.8	211.3	21.8	20.1	18.6	10.3	9.4	8.8
Montgomery .....	137.1	136.9	138.0	10.9	8.5	8.3	7.9	6.1	6.0
Tuscaloosa .....	69.9	72.1	71.8	5.1	3.8	3.7	7.3	5.2	5.2
<b>Alaska</b> .....	247.2	249.2	246.7	26.2	22.9	23.7	10.6	9.2	9.6
<b>Arizona</b> .....	1,625.4	1,663.7	1,680.1	108.6	92.1	93.9	6.7	5.5	5.8
Phoenix .....	1,007.6	1,036.9	1,045.6	58.3	48.7	49.7	5.6	4.7	4.8
Tucson .....	315.0	320.1	325.4	18.3	14.6	15.3	5.8	4.6	4.7
<b>Arkansas</b> .....	1,087.7	1,123.2	1,114.7	96.5	82.0	86.2	8.9	7.3	7.7
Fayetteville-Springdale .....	55.7	59.8	59.5	2.5	2.2	2.3	4.5	3.8	3.9
Fort Smith .....	88.6	90.7	90.6	6.1	5.3	5.6	6.9	5.9	6.2
Little Rock-North Little Rock .....	257.4	263.3	263.4	20.1	17.5	17.4	7.8	6.8	6.6
Pine Bluff .....	37.9	37.6	37.3	3.2	3.1	3.1	8.5	8.2	8.2
<b>California<sup>1</sup></b> .....	13,544.8	13,835.7	13,917.6	885.1	770.6	716.8	6.5	5.8	5.1
Anaheim-Santa Ana .....	1,277.7	1,301.5	1,326.0	50.0	43.2	40.0	3.9	3.3	3.0
Bakersfield .....	222.4	229.5	233.0	28.7	23.9	24.1	12.9	10.4	10.4
Fresno .....	283.7	284.3	285.8	36.3	30.2	32.1	12.8	10.6	11.2
Los Angeles-Long Beach <sup>1</sup> .....	4,169.0	4,275.0	4,276.0	267.0	253.0	191.0	6.4	5.9	4.5
Modesto .....	147.2	149.1	152.1	20.2	15.8	18.0	13.7	10.6	11.8
Oakland .....	1,030.0	1,044.7	1,055.0	58.2	48.2	47.6	5.6	4.6	4.5
Oxnard-Ventura .....	329.5	334.8	337.5	23.8	19.0	18.6	7.2	5.7	5.5
Riverside-San Bernardino .....	868.9	912.3	923.4	54.6	54.3	50.8	8.3	5.9	5.5
Sacramento .....	656.1	678.8	686.1	39.9	36.4	37.2	6.1	5.4	5.4
Salinas-Seaside-Monterey .....	152.7	154.7	153.5	15.6	10.3	13.1	10.2	8.7	8.5
San Diego .....	1,037.5	1,066.2	1,075.5	52.6	49.9	46.9	5.1	4.7	4.4
San Francisco .....	878.8	879.4	887.9	38.2	30.9	30.0	4.4	3.5	3.4
San Jose .....	802.6	796.4	808.9	44.9	33.0	32.6	5.6	4.1	4.0
Santa Barbara-Santa Maria-Lompoc .....	177.9	177.6	179.8	9.7	7.5	8.4	5.5	4.2	4.7
Santa Rosa-Petaluma .....	182.4	188.4	188.3	9.5	7.8	8.6	5.2	4.2	4.6
Stockton .....	181.5	186.8	185.8	21.9	17.3	19.0	12.1	9.3	10.2
Vallejo-Fairfield-Napa .....	182.6	191.8	191.4	12.0	10.5	10.4	6.6	5.5	5.4
<b>Colorado</b> .....	1,688.2	1,692.6	1,701.4	128.0	102.4	113.3	7.6	6.1	6.7
Boulder-Longmont .....	130.8	133.3	134.1	7.3	5.8	6.9	5.6	4.4	5.2
Denver .....	902.8	901.6	908.9	63.6	51.2	56.1	7.0	5.7	6.2
<b>Connecticut</b> .....	1,768.1	1,795.8	1,796.5	58.0	52.1	56.7	3.3	2.9	3.2
Bridgeport-Milford .....	232.9	235.7	236.8	9.7	8.2	8.5	4.2	3.5	3.6
Hartford .....	425.3	435.9	436.5	12.4	11.3	13.0	2.9	2.6	3.0
New Britain .....	75.3	75.7	76.0	2.8	2.2	2.4	3.7	2.9	3.1
New Haven-Meriden .....	275.7	279.5	279.3	8.6	7.6	8.7	3.2	2.8	3.1
Stamford .....	119.2	120.3	120.2	2.8	2.6	2.6	2.3	2.2	2.2
Waterbury .....	103.7	103.6	104.3	4.8	3.9	4.2	4.6	3.8	4.0
<b>Delaware</b> .....	330.1	330.8	331.4	11.5	9.4	9.8	3.5	2.8	2.9
Wilmington .....	287.6	286.6	288.3	11.2	8.8	8.8	3.9	3.1	3.1
<b>District of Columbia</b> .....	327.1	340.5	339.1	23.8	21.9	21.6	7.3	6.4	6.4
Washington .....	2,076.4	2,137.3	2,135.0	67.4	67.8	65.1	3.2	3.2	3.1
<b>Florida<sup>1</sup></b> .....	5,705.6	5,961.8	5,928.9	320.0	295.9	302.6	5.6	5.0	5.1
Daytona Beach .....	141.3	147.7	146.9	7.4	6.3	7.8	5.2	4.3	5.2
Fort Lauderdale-Hollywood-Pompano Beach .....	592.2	618.0	614.6	26.1	24.5	25.1	4.4	4.0	4.1
Fort Myers-Cape Coral .....	129.0	140.5	141.8	5.1	5.1	5.2	4.0	3.8	3.7
Gainesville .....	103.0	109.3	108.1	3.5	3.3	3.6	3.4	3.0	3.3
Jacksonville .....	427.9	453.9	450.0	22.3	22.4	23.5	5.2	4.9	5.2
Lakeland-Winter Haven .....	174.2	177.8	178.5	16.6	15.5	14.5	9.5	8.7	8.1
Melbourne-Titusville-Palm Bay .....	170.2	178.3	175.7	12.1	8.2	8.7	7.1	4.6	5.0
Miami-Hialeah .....	903.1	924.6	910.8	58.5	50.5	49.9	6.5	5.5	5.5
Orlando .....	539.8	574.9	571.3	24.9	23.8	24.6	4.6	4.1	4.3
Pensacola .....	148.6	152.8	151.1	9.1	8.4	9.4	6.2	5.5	6.2
Sarasota .....	110.1	116.4	116.3	4.0	3.8	4.5	3.7	3.3	3.9
Tallahassee .....	120.0	127.2	125.5	4.2	4.7	4.7	3.5	3.7	3.8
Tampa-St. Petersburg-Clearwater .....	935.3	970.4	963.7	47.4	43.6	45.9	5.1	4.5	4.8
West Palm Beach-Boca Raton-DeLray Beach .....	383.7	401.5	405.1	20.5	20.7	19.5	5.3	5.2	4.8

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					
	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Number			Percent of labor force		
				Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Georgia</b> .....	3,068.7	3,084.9	3,066.7	172.1	158.1	166.1	5.8	5.1	5.4
Albany .....	56.5	55.8	55.6	6.2	4.7	4.7	10.9	8.4	8.5
Athens .....	73.2	75.1	74.8	3.3	3.0	3.2	4.5	4.0	4.3
Atlanta .....	1,445.5	1,454.9	1,452.5	65.2	65.7	67.8	4.5	4.5	4.7
Augusta .....	175.3	175.1	175.4	10.3	9.0	9.3	5.9	5.1	5.3
Columbus .....	99.3	99.0	99.1	7.2	5.8	6.1	7.2	5.8	6.2
Macon-Warner Robins .....	128.0	127.5	128.0	7.3	6.2	6.7	5.7	4.8	5.2
Savannah .....	110.5	108.6	109.1	6.7	6.3	6.6	6.1	5.8	6.0
<b>Hawaii</b> .....	495.0	503.1	507.8	22.8	19.1	19.1	4.6	3.8	3.8
Honolulu .....	371.9	377.2	381.2	15.8	13.1	12.6	4.3	3.5	3.3
<b>Idaho</b> .....	466.8	469.5	457.8	36.3	25.2	29.1	7.8	5.4	6.4
Boise City .....	104.0	103.2	104.2	5.6	4.4	5.0	5.4	4.3	4.8
<b>Illinois</b> <sup>1</sup> .....	5,631.3	5,651.3	5,703.4	391.3	368.4	360.8	6.9	6.3	6.3
Aurora-Elgin .....	170.5	180.8	178.2	9.1	8.2	7.7	5.4	4.5	4.4
Bloomington-Normal .....	63.3	66.1	64.9	2.9	2.6	3.0	4.6	3.9	4.6
Champaign-Urbana-Rantoul .....	86.1	89.1	87.9	3.5	3.3	3.4	4.0	3.7	3.9
Chicago .....	3,097.7	3,219.4	3,138.7	198.2	190.2	181.5	6.4	5.9	5.8
Davenport-Rock Island-Moline .....	179.8	179.1	176.1	14.3	12.7	12.4	7.9	7.1	7.0
Decatur .....	58.5	59.4	57.4	5.2	5.4	5.0	8.9	9.1	8.6
Joliet .....	187.6	192.8	188.0	12.2	11.8	12.1	6.5	6.1	6.4
Kankakee .....	43.4	46.0	44.4	3.5	3.8	3.9	8.1	8.2	8.8
Lake County .....	253.1	267.8	261.4	11.3	9.9	9.9	4.5	3.7	3.8
Peoria .....	150.2	155.3	152.3	11.0	10.2	10.1	7.3	6.5	6.6
Rockford .....	145.5	148.1	144.7	11.5	12.0	11.2	7.9	8.1	7.7
Springfield .....	104.5	106.7	105.3	5.1	5.0	5.5	4.9	4.7	5.2
<b>Indiana</b> .....	2,794.8	2,780.9	2,772.3	174.3	157.8	159.0	6.2	5.7	5.7
Anderson .....	62.1	59.0	58.6	3.6	3.5	3.5	5.9	5.9	6.0
Bloomington .....	60.8	61.4	61.5	1.8	2.0	2.3	3.0	3.2	3.8
Elkhart-Goshen .....	91.2	93.7	93.7	3.9	4.3	4.8	4.3	4.6	5.2
Evansville .....	145.5	141.2	141.2	9.0	9.0	8.9	6.2	6.3	6.3
Fort Wayne .....	194.2	195.2	195.5	9.2	9.7	10.1	4.7	5.0	5.2
Gary-Hammond .....	262.3	249.9	247.0	32.1	19.6	18.2	12.3	7.8	7.4
Indianapolis .....	663.2	663.3	661.4	31.6	33.5	32.9	4.8	5.1	5.0
Kokomo .....	49.9	49.5	48.6	3.6	3.4	2.8	7.2	6.9	5.7
Lafayette .....	66.8	66.4	67.0	2.3	2.1	2.8	3.4	3.2	4.1
Muncie .....	61.2	60.1	60.0	4.1	4.1	4.2	6.7	6.8	7.0
South Bend-Mishawaka .....	129.3	128.7	128.2	6.5	7.0	6.7	5.0	5.5	5.2
Terre Haute .....	61.4	59.0	58.7	3.8	3.4	3.5	6.3	5.8	5.9
<b>Iowa</b> .....	1,441.6	1,425.6	1,412.9	83.1	69.6	75.4	5.8	4.9	5.3
Cedar Rapids .....	89.5	87.3	87.3	4.5	4.1	4.2	5.0	4.7	4.8
Des Moines .....	217.1	216.6	216.8	10.3	9.2	8.6	4.7	4.3	4.0
Dubuque .....	44.0	43.7	44.2	2.7	2.3	3.1	6.2	5.2	7.0
Iowa City .....	58.4	57.9	57.6	1.1	1.2	1.3	1.9	2.0	2.2
Sioux City .....	58.3	57.7	58.2	4.1	3.4	3.5	7.1	5.9	6.0
Waterloo-Cedar Falls .....	69.9	68.3	68.8	7.0	4.7	4.9	10.1	6.9	7.1
<b>Kansas</b> .....	1,230.4	1,244.6	1,240.3	62.6	53.7	58.8	5.1	4.3	4.7
Lawrence .....	38.9	39.3	39.7	1.2	1.3	1.4	3.2	3.3	3.6
Topeka .....	87.2	88.1	89.0	4.0	4.0	4.4	4.6	4.5	4.9
Wichita LMA .....	224.5	233.0	234.0	12.5	10.3	11.1	5.6	4.4	4.7
<b>Kentucky</b> .....	1,708.7	1,693.2	1,677.2	138.1	119.5	120.6	8.1	7.1	7.2
Lexington-Fayette .....	183.4	181.6	178.4	8.6	7.5	8.0	4.7	4.1	4.5
Louisville .....	498.5	491.2	491.9	30.9	26.1	28.5	6.2	5.3	5.8
Owensboro .....	45.5	44.6	43.9	4.0	3.6	3.4	8.7	8.1	7.9
<b>Louisiana</b> .....	1,980.7	1,994.6	1,973.0	266.1	204.5	207.1	13.4	10.3	10.5
Alexandria .....	61.0	62.9	62.6	6.3	5.2	5.6	10.4	8.4	8.9
Baton Rouge .....	263.7	270.9	269.7	28.0	23.5	24.0	10.6	8.7	8.9
Houma-Thibodaux .....	76.6	73.2	72.5	14.6	8.9	8.9	19.1	12.1	12.3
Lafayette .....	106.2	103.2	101.9	16.5	10.8	10.6	15.5	10.4	10.4
Lake Charles .....	74.4	78.3	77.5	10.6	9.3	9.4	14.3	11.9	12.1
Monroe .....	70.5	71.5	71.5	7.5	6.2	6.6	10.6	8.7	9.2
New Orleans .....	604.4	609.6	606.6	66.9	56.4	56.0	11.1	9.2	9.2
Shreveport .....	168.8	167.9	167.6	21.3	16.4	17.0	12.6	9.7	10.1
<b>Maine</b> .....	563.7	610.3	601.4	24.5	17.6	21.0	4.4	2.9	3.5
Lewiston-Auburn .....	40.5	41.8	41.8	2.3	1.5	1.7	5.6	3.5	4.0
Portland .....	120.5	129.6	128.7	2.7	2.3	2.4	2.2	1.8	1.9

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. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Maryland</b> .....	2,384.7	2,403.8	2,404.5	95.2	97.2	99.5	4.0	4.0	4.1
Baltimore .....	1,159.1	1,159.6	1,157.9	53.2	51.8	51.9	4.6	4.5	4.5
<b>Massachusetts<sup>1</sup></b> .....	3,051.2	3,097.1	3,084.5	111.4	63.6	71.9	3.6	2.7	2.3
Boston .....	1,519.0	1,536.0	1,535.3	46.5	36.0	30.1	3.1	2.3	2.0
Brockton .....	96.3	96.4	96.2	3.9	3.0	2.7	4.0	3.1	2.7
Fall River .....	77.2	78.3	78.5	4.4	3.3	3.3	5.8	4.2	4.2
Fitchburg-Leominster .....	45.9	45.6	45.6	2.3	1.8	1.3	5.0	3.5	2.6
Lawrence-Haverhill .....	180.3	183.3	181.8	6.3	7.5	6.2	4.6	4.1	3.4
Lowell .....	148.7	148.5	147.9	6.3	4.6	3.6	4.2	3.1	2.8
New Bedford .....	84.9	83.5	83.8	4.9	3.1	3.0	5.8	3.7	3.6
Pittsfield .....	41.1	41.8	41.2	1.7	1.4	1.2	4.0	3.3	3.0
Springfield .....	247.9	252.9	252.5	9.7	6.9	5.8	3.9	2.7	2.3
Worcester .....	209.4	212.6	212.8	7.2	5.3	4.4	3.4	2.5	2.1
<b>Michigan<sup>1</sup></b> .....	4,470.2	4,516.2	4,533.4	359.3	310.1	334.6	8.0	6.9	7.4
Ann Arbor .....	154.7	161.2	162.4	6.1	5.6	5.6	3.9	3.5	3.5
Battle Creek .....	62.2	63.0	63.3	4.9	4.6	5.0	7.6	7.2	7.9
Benton Harbor .....	78.2	77.2	77.3	6.5	4.5	4.8	8.5	5.8	6.3
Detroit .....	2,179.4	2,200.1	2,204.0	167.0	154.1	160.5	7.7	7.0	7.3
Flint .....	205.8	203.0	206.4	21.0	24.7	28.1	10.2	12.2	13.6
Grand Rapids .....	339.1	342.1	344.1	23.8	17.2	18.8	7.0	5.0	5.4
Jackson .....	62.4	62.1	62.5	5.2	4.0	4.3	8.4	6.5	6.9
Kalamazoo .....	112.9	116.3	117.2	6.0	5.4	5.7	5.3	4.6	4.9
Lansing-East Lansing .....	235.7	235.0	239.1	14.8	13.3	13.8	6.3	5.6	5.8
Muskegon .....	67.8	67.6	67.3	7.5	5.7	5.8	11.0	8.5	8.6
Saginaw-Bay City-Midland .....	186.5	189.8	189.9	17.5	12.8	13.7	9.4	6.7	7.2
<b>Minnesota</b> .....	2,245.4	2,257.8	2,255.0	108.9	111.4	132.7	4.8	4.9	5.9
Duluth .....	104.1	102.5	103.1	9.2	6.4	9.4	6.8	6.2	9.1
Minneapolis-St.Paul .....	1,330.5	1,338.4	1,343.9	50.5	58.5	65.7	3.8	4.4	4.9
Rochester .....	56.6	58.4	59.0	2.1	2.4	3.0	3.6	4.2	5.1
St. Cloud .....	90.1	93.6	94.1	5.1	4.8	5.8	5.7	5.1	6.2
<b>Mississippi</b> .....	1,187.7	1,177.9	1,168.3	131.1	108.4	110.2	11.2	9.2	9.4
Jackson .....	197.6	200.9	200.6	15.9	13.1	13.1	6.0	6.5	6.6
<b>Missouri</b> .....	2,550.0	2,606.5	2,574.8	148.4	143.7	156.3	5.8	5.5	6.1
Kansas City .....	806.7	814.2	813.1	35.4	41.1	42.7	4.4	5.1	5.3
St. Joseph .....	41.8	41.5	41.3	3.2	2.6	2.9	7.6	6.9	7.0
St. Louis .....	1,246.3	1,259.2	1,259.2	61.8	76.9	80.9	6.5	6.1	6.4
Springfield .....	116.8	121.6	121.0	5.6	5.4	5.4	4.7	4.5	4.5
<b>Montana</b> .....	403.7	394.8	397.2	32.0	24.8	29.7	7.9	6.2	7.5
<b>Nebraska</b> .....	809.0	795.3	790.5	37.8	31.3	35.5	4.8	3.9	4.5
Lincoln .....	120.3	118.9	118.0	3.5	3.6	4.1	2.9	3.0	3.5
Omaha .....	314.7	309.2	309.1	15.5	14.3	15.2	4.9	4.8	4.9
<b>Nevada</b> .....	550.8	564.2	569.2	30.1	32.7	34.5	5.5	5.8	6.1
Las Vegas .....	317.8	329.2	332.5	16.0	20.6	20.9	5.6	6.2	6.3
Reno .....	139.0	136.1	139.0	6.6	6.6	7.6	4.8	4.9	5.5
<b>New Hampshire</b> .....	567.4	597.9	591.2	13.9	12.5	13.3	2.4	2.1	2.2
Nashua .....	92.9	96.0	96.1	2.2	2.3	2.4	2.4	2.3	2.4
Portsmouth-Dover-Rochester .....	125.9	134.5	131.7	2.9	2.1	2.3	2.3	1.8	1.7
<b>New Jersey<sup>1</sup></b> .....	3,887.1	3,951.9	3,982.3	158.4	144.1	126.7	4.1	3.6	3.2
Atlantic City .....	186.0	175.4	172.5	11.9	10.2	9.5	7.2	5.8	5.5
Bergen-Passaic .....	704.0	709.5	711.7	26.1	22.4	19.4	3.7	3.2	2.7
Jersey City .....	267.8	272.0	272.4	16.6	16.0	14.0	6.2	5.9	5.1
Middlesex-Somerset-Hunterdon .....	536.0	546.1	548.6	15.6	14.3	12.8	3.0	2.8	2.3
Monmouth-Ocean .....	450.8	461.6	461.9	15.2	13.9	12.6	3.4	3.0	2.7
Newark .....	960.4	964.8	967.3	41.9	38.2	32.9	4.4	4.0	3.4
Trenton .....	169.5	173.4	175.1	5.8	5.0	4.5	3.4	2.9	2.5
Vineland-Millville-Bridgeton .....	56.4	57.7	57.5	4.4	3.7	3.6	7.9	6.4	6.6
<b>New Mexico</b> .....	681.8	677.6	679.3	62.3	55.7	59.3	9.1	6.2	6.7
Albuquerque .....	258.6	258.3	261.3	17.0	16.7	18.0	6.8	6.5	6.9
Las Cruces .....	58.0	57.4	56.8	3.9	4.4	4.4	6.8	7.7	7.9
Santa Fe .....	64.9	65.7	65.0	3.8	3.5	3.6	5.5	5.4	5.5

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. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,402.4	8,534.2	8,589.8	449.4	416.1	423.2	5.3	4.9	4.9
Albany-Schenectady-Troy .....	409.7	419.0	420.4	18.5	16.7	14.8	4.5	4.0	3.5
Binghamton .....	124.2	127.0	127.5	6.1	4.9	4.5	4.9	3.8	3.5
Buffalo .....	437.5	447.3	448.9	26.9	24.8	22.4	6.2	5.5	5.0
Elmira .....	39.7	41.7	42.3	2.2	1.7	1.7	5.5	4.2	3.9
Glens Falls .....	51.3	53.4	52.2	3.7	2.8	2.6	7.2	5.2	4.9
Nassau-Suffolk .....	1,408.0	1,430.7	1,431.6	52.8	50.2	43.3	3.8	3.5	3.0
New York .....	3,894.4	3,921.1	3,980.3	218.6	209.4	236.6	5.8	5.3	5.9
New York City <sup>1</sup> .....	3,226.0	3,240.0	3,299.0	197.0	189.0	219.0	6.1	5.8	6.8
Orange County .....	125.3	128.8	129.3	5.5	4.7	4.4	4.3	3.7	3.4
Poughkeepsie .....	125.9	128.9	129.8	4.1	3.7	3.7	3.2	2.9	2.9
Rochester .....	491.9	498.7	498.7	26.6	21.7	19.4	5.4	4.4	3.9
Syracuse .....	316.5	322.3	320.8	20.8	20.9	17.7	6.6	6.5	5.5
Utica-Rome .....	133.5	136.4	135.9	7.9	6.7	8.3	5.9	4.9	4.8
<b>North Carolina<sup>1</sup></b> .....	3,204.2	3,354.2	3,335.8	173.7	129.2	134.1	5.4	3.9	4.0
Asheville .....	85.2	88.8	88.0	4.7	3.2	3.4	5.5	3.6	3.9
Charlotte-Gastonia-Rock Hill .....	599.1	635.9	634.3	27.2	21.1	21.0	4.5	3.3	3.3
Greensboro-Winston-Salem-High Point .....	499.1	521.5	519.2	23.0	17.4	17.6	4.8	3.3	3.4
Raleigh-Durham .....	387.8	405.5	404.7	14.1	11.7	12.0	3.8	2.9	3.0
<b>North Dakota</b> .....	320.4	323.0	315.0	20.3	11.9	16.5	6.3	3.7	5.2
Bismarck .....	43.2	43.4	43.5	2.8	1.8	2.5	6.5	3.6	5.8
Fargo-Moorhead .....	83.5	83.8	84.2	3.1	2.5	3.2	3.8	3.0	3.8
Grand Forks .....	35.2	35.5	35.8	1.4	1.1	1.6	3.9	3.1	4.6
<b>Ohio<sup>1</sup></b> .....	5,281.8	5,221.3	5,262.7	388.0	301.2	303.4	7.3	5.8	5.8
Akron .....	323.4	319.7	321.5	23.2	18.7	18.8	7.2	5.8	5.8
Canton .....	191.1	188.2	187.3	18.0	12.4	12.5	9.4	6.7	6.7
Cincinnati .....	738.8	744.2	747.7	42.5	41.0	38.3	5.8	5.5	5.1
Cleveland .....	939.3	927.5	937.6	62.0	48.1	50.0	6.6	5.2	5.3
Columbus .....	691.1	694.8	701.8	38.7	33.0	33.4	5.6	4.7	4.8
Dayton-Springfield .....	470.2	463.1	468.2	28.3	21.7	22.6	6.0	4.7	4.8
Toledo .....	314.6	314.2	316.5	22.7	19.5	18.2	7.2	6.2	5.7
Youngstown-Warren .....	227.6	221.4	222.3	22.4	15.6	15.8	9.8	7.0	7.1
<b>Oklahoma</b> .....	1,593.5	1,547.0	1,537.5	129.2	98.2	95.3	8.1	6.4	6.2
Enid .....	30.3	29.4	29.4	2.4	1.7	1.7	7.9	5.6	5.7
Lawton .....	48.2	47.8	47.8	2.5	2.2	2.2	5.1	4.7	4.7
Oklahoma City .....	515.4	502.4	497.9	34.3	27.8	25.7	6.7	5.5	5.2
Tulsa .....	359.7	354.6	352.6	30.2	24.9	24.9	8.4	7.0	7.1
<b>Oregon</b> .....	1,362.0	1,383.5	1,396.0	107.1	78.8	78.3	7.9	5.5	5.6
Eugene-Springfield .....	135.2	138.0	139.1	10.1	7.9	7.8	7.5	5.8	5.6
Portland .....	618.9	627.9	637.3	42.7	30.7	30.7	6.9	4.9	4.8
Salem .....	124.8	128.7	128.8	10.0	8.8	7.3	8.0	5.3	5.7
<b>Pennsylvania<sup>1</sup></b> .....	5,600.0	5,787.4	5,715.9	334.3	307.1	299.4	6.0	5.3	5.2
Allentown-Bethlehem .....	314.2	318.6	315.8	17.7	12.0	13.0	5.6	3.8	4.1
Altoona .....	57.8	59.5	59.4	4.6	4.1	4.3	8.0	7.0	7.3
Beaver County .....	63.9	64.3	63.5	7.1	7.3	6.8	11.1	11.3	10.6
Erie .....	128.1	130.3	128.8	9.9	9.3	9.4	7.7	7.1	7.3
Harrisburg-Lebanon-Carlisle .....	300.6	317.8	313.6	10.9	10.1	9.7	3.6	3.2	3.1
Johnstown .....	92.2	95.6	94.4	8.0	7.3	7.9	8.6	7.7	8.3
Lancaster .....	208.0	219.9	216.3	5.6	8.3	5.9	2.7	2.8	2.7
Philadelphia .....	2,369.7	2,459.0	2,442.3	107.4	110.8	101.2	4.5	4.5	4.1
Pittsburgh .....	951.1	972.2	963.1	69.7	63.7	61.7	7.3	6.5	6.4
Reading .....	168.2	174.8	172.2	7.8	6.4	6.2	4.5	3.7	3.6
Scranton-Wilkes-Barre .....	341.3	349.1	344.9	24.8	21.1	21.8	7.3	6.1	6.3
Sharon .....	48.6	51.9	50.8	4.0	3.2	3.0	8.2	6.1	5.9
State College .....	58.2	61.0	60.0	3.2	3.1	3.0	5.4	5.1	5.0
Williamsport .....	55.9	59.0	58.5	3.5	2.8	2.9	6.2	4.7	5.0
York .....	205.0	215.1	211.3	8.8	7.4	7.2	4.3	3.5	3.4
<b>Rhode Island</b> .....	519.5	524.7	530.4	17.4	15.5	18.4	3.3	2.9	3.1
Pawtucket-Woonsocket-Attleboro .....	187.3	189.4	170.2	6.7	5.7	5.6	4.0	3.4	3.3
Providence .....	339.9	341.0	345.0	11.0	9.8	10.2	3.2	2.9	3.0
<b>South Carolina</b> .....	1,611.1	1,661.4	1,658.2	95.4	71.3	74.5	5.9	4.3	4.5
Charleston .....	220.0	231.4	232.4	10.1	8.1	8.8	4.6	3.5	3.7
Columbia .....	220.3	231.5	232.1	8.5	7.4	7.9	3.9	3.2	3.4
Greenville-Spartanburg .....	323.9	334.0	334.8	15.8	11.4	11.6	4.9	3.4	3.5
<b>South Dakota</b> .....	347.3	348.6	344.2	19.3	13.4	18.9	5.6	3.8	5.5
Rapid City .....	39.5	38.5	38.2	2.1	1.8	1.8	5.3	4.8	4.7
Sioux Falls .....	69.8	69.0	70.8	3.6	2.1	4.9	5.2	3.0	6.9

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. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>	Nov. 1986	Oct. 1987	Nov. 1987 <sup>P</sup>
<b>Tennessee</b> .....	2,345.5	2,361.2	2,376.4	172.2	139.3	141.0	7.3	5.9	5.9
Chattanooga .....	202.5	205.4	206.5	12.7	10.4	10.4	6.3	5.1	5.0
Johnson City-Kingsport-Bristol .....	209.9	219.2	220.1	14.4	13.4	13.3	6.9	6.1	6.0
Knoxville .....	281.4	281.9	281.5	20.8	14.3	16.5	7.4	5.1	5.8
Memphis LMA .....	444.0	450.2	451.9	29.3	24.8	24.6	6.6	5.5	5.4
Nashville .....	517.2	516.3	512.3	23.0	22.7	22.6	4.5	4.4	4.4
<b>Texas<sup>1</sup></b> .....	8,276.2	8,409.4	8,568.9	731.3	618.2	673.5	8.8	7.4	7.9
Abilene .....	55.6	56.7	57.9	5.1	4.0	4.4	9.2	7.0	7.6
Amarillo .....	100.2	103.5	105.7	6.5	5.9	6.6	6.4	5.7	6.2
Austin .....	434.1	444.5	453.5	25.4	26.2	29.4	5.8	5.9	6.5
Beaumont-Port Arthur .....	162.2	162.9	165.5	20.5	17.1	18.4	12.6	10.5	11.1
Brazoria .....	81.1	83.9	85.4	8.5	6.9	7.5	10.4	8.3	8.7
Brownsville-Harlingen .....	95.1	95.2	97.6	13.7	12.6	14.2	14.4	13.3	14.5
Bryan-College Station .....	61.2	60.1	61.3	3.7	2.8	3.0	6.0	4.6	5.0
Corpus Christi .....	166.7	165.7	168.8	20.8	16.3	17.5	12.5	9.8	10.4
Dallas .....	1,431.1	1,455.1	1,481.2	83.5	84.9	91.7	5.8	5.8	6.2
El Paso .....	228.9	238.4	243.0	24.8	23.7	25.7	10.9	9.9	10.6
Fort Worth-Arlington .....	665.1	693.9	706.5	43.5	42.0	46.1	6.5	6.1	6.5
Galveston-Texas City .....	106.4	108.2	109.0	11.7	10.5	10.9	11.0	9.7	10.0
Houston .....	1,614.2	1,621.8	1,651.0	166.1	123.0	131.6	10.3	7.6	8.0
Killeen-Temple .....	90.2	94.9	96.9	6.9	7.1	7.6	7.6	7.4	7.9
Laredo .....	45.1	45.5	47.2	7.6	5.8	6.8	16.9	12.9	14.4
Longview-Marshall .....	80.3	80.2	81.6	9.0	7.3	7.8	11.2	9.1	9.6
Lubbock .....	112.3	114.7	117.0	7.0	6.2	6.6	6.3	5.4	5.6
McAllen-Edinburg-Mission .....	148.5	151.7	158.3	30.1	25.4	28.9	20.2	16.8	18.2
Midland .....	52.0	51.5	52.5	5.8	3.6	3.9	11.2	7.1	7.3
Odessa .....	59.0	56.9	58.0	9.5	4.5	4.5	16.0	7.8	7.7
San Angelo .....	48.1	46.8	47.6	3.2	2.6	2.8	7.0	5.6	5.9
San Antonio .....	595.2	615.2	628.7	45.9	45.0	48.9	7.7	7.3	7.8
Sherman-Denison .....	49.2	50.9	52.0	3.9	3.5	3.8	7.8	6.9	7.3
Texarkana .....	57.3	58.5	59.5	4.6	4.4	4.6	8.0	7.5	7.8
Tyler .....	77.0	76.6	78.3	6.9	5.8	6.4	9.0	7.6	8.2
Victoria .....	38.5	38.4	39.1	3.8	2.9	3.0	9.9	7.4	7.6
Waco .....	93.5	96.2	98.3	7.4	7.2	8.2	7.9	7.5	8.4
Wichita Falls .....	57.1	58.4	59.6	4.6	3.9	4.1	8.0	6.7	6.9
<b>Utah</b> .....	757.3	755.4	761.1	42.8	39.3	41.9	5.7	5.2	5.5
Provo-Orem .....	99.4	100.2	100.4	8.6	5.1	5.4	6.6	5.1	5.3
Salt Lake City-Ogden .....	501.0	500.4	507.2	24.9	24.5	26.3	5.0	4.9	5.2
<b>Vermont</b> .....	296.8	301.7	296.9	13.3	10.6	10.1	4.5	3.5	3.4
Burlington .....	74.4	76.7	76.2	2.4	2.1	1.6	3.2	2.7	2.4
<b>Virginia</b> .....	2,930.5	3,009.3	2,994.7	138.6	117.7	107.2	4.7	3.9	3.6
Charlottesville .....	64.6	65.8	65.9	2.2	1.5	1.4	3.4	2.2	2.1
Danville .....	50.9	51.0	50.8	4.1	3.3	3.1	8.0	6.5	6.1
Lynchburg .....	70.3	71.4	70.8	3.7	3.5	3.3	5.3	4.8	4.7
Norfolk-Virginia Beach-Newport News .....	582.0	597.6	596.2	27.8	25.8	23.7	4.8	4.3	4.0
Richmond-Petersburg .....	416.8	429.3	429.3	17.8	16.1	14.5	4.3	3.8	3.4
Roanoke .....	119.2	122.1	121.6	5.8	4.8	4.4	4.9	3.9	3.6
<b>Washington</b> .....	2,194.6	2,271.2	2,243.4	176.8	147.9	156.2	8.1	6.5	7.0
Seattle .....	979.2	1,006.2	1,010.5	61.9	54.8	55.4	8.3	5.4	5.5
<b>West Virginia</b> .....	740.1	743.3	753.1	81.1	70.1	81.2	11.0	9.4	10.8
Charleston .....	115.9	118.0	119.3	9.7	10.0	11.2	8.4	8.5	9.4
Huntington-Ashland .....	126.3	124.3	124.6	11.8	11.0	11.1	9.3	8.9	6.9
Parkersburg-Marietta .....	72.2	71.4	71.9	7.4	5.1	5.4	10.3	7.1	7.5
Wheeling .....	71.7	70.6	71.2	7.6	5.5	5.8	10.6	7.8	8.2
<b>Wisconsin</b> .....	2,430.4	2,518.2	2,522.8	155.9	125.2	151.5	6.4	5.0	6.0
Appleton-Oshkosh-Neenah .....	159.6	166.7	167.1	10.3	8.0	9.6	8.4	4.8	5.8
Eau Claire .....	71.4	72.1	73.2	4.7	3.4	4.7	6.6	4.7	6.4
Green Bay .....	102.6	105.6	106.6	6.4	5.5	8.6	6.2	5.2	6.2
Janesville-Beloit .....	68.9	71.0	71.2	4.7	4.5	4.9	6.8	6.4	6.8
Kenosha .....	51.5	56.2	55.2	4.8	3.0	3.9	9.4	5.3	7.1
La Crosse .....	51.4	53.7	54.1	3.1	2.1	2.8	6.0	4.0	5.2
Madison .....	209.2	218.1	219.9	9.4	7.0	9.2	4.5	3.2	4.2
Milwaukee .....	721.2	741.3	744.6	39.6	33.7	38.3	5.5	4.5	5.1
Racine .....	84.5	85.8	86.3	6.2	4.6	5.5	7.3	5.4	6.4
Sheboygan .....	52.4	54.4	54.0	2.7	2.4	2.6	5.2	4.3	4.8
Wausau .....	57.8	60.4	61.1	4.1	2.9	3.8	7.1	4.7	6.3
<b>Wyoming</b> .....	243.9	239.0	235.9	22.6	15.7	16.8	9.3	6.6	7.1

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Data refer to place of residence. Estimates for 1986 have been

benchmarked to 1986 Current Population Survey annual averages. Except in the 11 States and 2 areas designated by footnote 1, estimates for 1987 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	
<b>Persons 14 years of age and over</b>									
1929	( <sup>1</sup> )	49,180	( <sup>1</sup> )	47,630	10,450	37,180	1,550	3.2	( <sup>1</sup> )
1930	( <sup>1</sup> )	49,820	( <sup>1</sup> )	45,480	10,340	35,140	4,340	8.7	( <sup>1</sup> )
1931	( <sup>1</sup> )	50,420	( <sup>1</sup> )	42,400	10,290	32,110	8,020	15.9	( <sup>1</sup> )
1932	( <sup>1</sup> )	51,000	( <sup>1</sup> )	38,940	10,170	28,770	12,060	23.6	( <sup>1</sup> )
1933	( <sup>1</sup> )	51,590	( <sup>1</sup> )	38,760	10,090	28,670	12,830	24.9	( <sup>1</sup> )
1934	( <sup>1</sup> )	52,230	( <sup>1</sup> )	40,890	9,900	30,990	11,340	21.7	( <sup>1</sup> )
1935	( <sup>1</sup> )	52,870	( <sup>1</sup> )	42,260	10,110	32,150	10,610	20.1	( <sup>1</sup> )
1936	( <sup>1</sup> )	53,440	( <sup>1</sup> )	44,410	10,000	34,410	9,030	16.9	( <sup>1</sup> )
1937	( <sup>1</sup> )	54,000	( <sup>1</sup> )	46,300	9,820	36,480	7,700	14.3	( <sup>1</sup> )
1938	( <sup>1</sup> )	54,610	( <sup>1</sup> )	44,220	9,690	34,530	10,390	19.0	( <sup>1</sup> )
1939	( <sup>1</sup> )	55,230	( <sup>1</sup> )	45,750	9,610	36,140	9,480	17.2	( <sup>1</sup> )
1940	99,840	55,640	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	53,860	57.2	52,820	8,580	44,240	1,040	1.9	40,230
1946	103,070	57,520	55.8	55,250	8,320	46,930	2,270	3.9	45,550
1947	106,018	60,168	56.8	57,812	8,256	49,557	2,356	3.9	45,850
<b>Persons 16 years of age and over</b>									
1947	101,827	59,350	58.3	57,038	7,890	49,148	2,311	3.9	42,477
1948	103,068	60,621	58.8	58,343	7,629	50,714	2,276	3.8	42,447
1949	103,994	61,286	58.9	57,651	7,658	49,993	3,637	5.9	42,708
1950	104,995	62,208	59.2	58,918	7,160	51,758	3,288	5.3	42,787
1951	104,621	62,017	59.2	59,961	6,726	53,235	2,055	3.3	42,604
1952	105,231	62,138	59.0	60,250	6,500	53,749	1,883	3.0	43,093
1953 <sup>2</sup>	107,056	63,015	58.9	61,179	6,260	54,919	1,834	2.9	44,041
1954	108,321	63,643	58.8	60,109	6,205	53,904	3,532	5.5	44,678
1955	109,683	65,023	59.3	62,170	6,450	55,722	2,852	4.4	44,660
1956	110,954	66,552	60.0	63,799	6,283	57,514	2,750	4.1	44,402
1957	112,265	66,929	59.6	64,071	5,947	58,123	2,859	4.3	45,336
1958	113,727	67,639	59.5	63,036	5,586	57,450	4,602	6.8	46,088
1959	115,329	68,369	59.3	64,630	5,565	59,065	3,740	5.5	46,960
1960 <sup>2</sup>	117,245	69,628	59.4	65,778	5,458	60,318	3,852	5.5	47,617
1961	118,771	70,459	59.3	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>2</sup>	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	4,887	63,076	4,070	5.7	50,583
1964	124,485	73,091	58.7	69,305	4,523	64,782	3,786	5.2	51,394
1965	126,513	74,455	58.9	71,088	4,361	66,726	3,366	4.5	52,058
1966	128,058	75,770	59.2	72,895	3,979	68,915	2,875	3.8	52,288
1967	129,874	77,347	59.6	74,372	3,844	70,527	2,975	3.8	52,527
1968	132,028	78,737	59.6	75,920	3,817	72,103	2,817	3.6	53,291
1969	134,335	80,734	60.1	77,902	3,606	74,296	2,832	3.5	53,602
1970	137,085	82,771	60.4	78,678	3,463	75,215	4,093	4.9	54,315
1971	140,216	84,382	60.2	79,367	3,394	75,972	5,016	5.9	55,834
1972 <sup>2</sup>	144,126	87,034	60.4	82,153	3,484	78,669	4,882	5.6	57,091
1973 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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	62,868

<sup>1</sup> Not available.

<sup>2</sup> 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, 1954 to date

(Numbers in thousands)

Year	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagr-cultural industries	Number	Percent of labor force	
<b>Men</b>									
1954	51,395	43,965	85.5	41,619	5,200	36,418	2,344	5.3	7,431
1955	52,109	44,475	85.4	42,621	5,265	37,356	1,854	4.2	7,634
1956	52,723	45,091	85.5	43,379	5,040	38,339	1,711	3.8	7,633
1957	53,315	45,197	84.8	43,357	4,824	38,532	1,841	4.1	8,118
1958	54,033	45,521	84.2	42,423	4,598	37,827	3,098	8.8	8,514
1959	54,793	45,866	83.7	43,466	4,532	38,934	2,420	5.2	8,907
1960 <sup>1</sup>	55,682	46,388	83.3	43,904	4,472	39,431	2,486	5.4	9,274
1961	56,286	46,853	82.9	43,656	4,298	39,359	2,997	6.4	9,633
1962 <sup>1</sup>	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	59,782	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	2,882	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	13,782
1972 <sup>1</sup>	67,835	53,555	78.9	50,696	2,849	48,047	2,659	5.0	14,280
1973 <sup>1</sup>	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	6.1	16,585
1977	75,193	58,396	77.7	54,728	2,671	52,057	3,667	7.3	16,797
1978 <sup>1</sup>	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	56,767	2,704	54,063	6,260	9.9	19,484
1984	83,605	63,835	76.4	59,091	2,666	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 <sup>1</sup>	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
<b>Women</b>									
1954	56,925	19,678	34.6	18,490	1,006	17,486	1,188	6.0	37,247
1955	57,574	20,548	35.7	19,551	1,184	18,366	998	4.9	37,026
1956	58,226	21,461	36.9	20,419	1,244	19,175	1,039	4.8	36,789
1957	58,951	21,732	36.9	20,714	1,123	19,591	1,018	4.7	37,218
1958	59,890	22,118	37.1	20,613	990	19,623	1,504	8.8	37,574
1959	60,534	22,483	37.1	21,184	1,033	20,131	1,320	5.9	38,053
1960 <sup>1</sup>	61,582	23,240	37.7	21,874	986	20,887	1,368	5.9	38,343
1961	62,484	23,806	36.1	22,090	902	21,187	1,717	7.2	38,679
1962 <sup>1</sup>	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	1,466	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 <sup>1</sup>	76,290	33,479	43.9	31,257	635	30,622	2,222	6.6	42,811
1973 <sup>1</sup>	77,804	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	3,468	9.3	43,386
1976	82,390	38,983	47.3	35,615	568	35,027	3,369	8.6	43,406
1977	83,840	40,613	48.4	37,289	612	36,677	3,324	8.2	43,227
1978 <sup>1</sup>	85,334	42,631	50.0	39,569	689	38,900	3,061	7.2	42,703
1979	86,843	44,235	50.9	41,217	661	40,556	3,018	6.8	42,608
1980	88,348	45,487	51.5	42,117	658	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	43,066
1985	93,736	51,050	54.5	47,259	644	46,615	3,791	7.4	42,686
1986 <sup>1</sup>	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

<sup>1</sup> 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—Continued**

(Numbers in thousands)

Age, sex, and race	1987										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	20,352	12,993	63.8	11,309	1,684	13.0	7,359	2,828	1,311	606	2,611
16 to 19 years .....	2,163	899	41.6	587	312	34.7	1,264	102	925	3	234
16 to 17 years .....	1,123	336	29.9	203	134	39.7	787	32	634	3	121
18 to 19 years .....	1,040	563	54.1	385	178	31.6	477	70	291	3	113
20 to 24 years .....	2,578	1,818	70.5	1,421	397	21.8	761	292	237	36	194
25 to 54 years .....	11,162	8,928	80.0	8,023	904	10.1	2,235	1,278	146	239	571
25 to 34 years .....	5,139	4,147	80.7	3,814	533	12.8	992	585	103	61	243
25 to 29 years .....	2,658	2,101	79.1	1,809	292	13.9	554	315	63	35	142
30 to 34 years .....	2,483	2,045	82.4	1,804	241	11.8	438	270	40	27	101
35 to 44 years .....	3,563	2,942	82.8	2,895	247	8.4	620	345	35	71	170
35 to 39 years .....	2,048	1,715	83.7	1,552	164	9.8	333	186	23	29	93
40 to 44 years .....	1,514	1,227	81.0	1,143	84	6.8	287	158	12	41	75
45 to 54 years .....	2,460	1,838	74.7	1,714	124	6.8	622	348	8	107	158
45 to 49 years .....	1,304	1,028	78.7	953	73	7.1	277	158	5	42	73
50 to 54 years .....	1,156	811	70.2	780	51	6.3	345	192	3	85	85
55 to 64 years .....	2,097	1,098	52.4	1,038	62	5.6	998	445	2	135	417
55 to 59 years .....	1,099	690	62.6	654	37	5.3	408	198	2	65	145
60 to 64 years .....	998	408	40.9	383	25	6.1	590	249	8	70	271
65 years and over .....	2,352	251	10.7	241	10	3.9	2,101	711	1	195	1,195
65 to 69 years .....	858	157	18.3	152	5	3.2	701	252	1	54	395
70 years and over .....	1,494	93	6.2	69	4	4.3	1,401	459	1	141	800
<b>Men</b>											
16 years and over .....	9,128	6,486	71.1	5,661	828	12.7	2,642	105	630	324	1,582
16 to 19 years .....	1,065	483	43.6	304	180	34.4	601	8	484	2	128
16 to 17 years .....	568	179	31.7	109	70	39.0	387	5	319	3	63
18 to 19 years .....	499	284	57.0	195	90	31.6	214	3	145	2	64
20 to 24 years .....	1,173	914	77.8	728	186	20.3	280	11	111	26	110
25 to 54 years .....	4,999	4,395	87.9	3,957	435	9.9	605	46	55	149	355
25 to 34 years .....	2,320	2,074	89.4	1,821	253	12.2	246	19	39	39	150
25 to 29 years .....	1,200	1,058	88.1	919	137	13.0	143	11	24	21	88
30 to 34 years .....	1,121	1,018	90.8	902	116	11.4	103	8	15	18	82
35 to 44 years .....	1,587	1,406	88.8	1,283	122	6.7	181	13	13	48	110
35 to 39 years .....	912	816	89.5	738	79	9.6	96	7	8	20	60
40 to 44 years .....	874	589	67.4	545	44	7.4	65	5	4	26	49
45 to 54 years .....	1,092	915	83.7	853	61	6.7	178	14	3	64	95
45 to 49 years .....	579	503	86.9	471	32	6.3	76	4	2	24	45
50 to 54 years .....	513	411	80.1	382	29	7.1	102	10	1	40	51
55 to 64 years .....	944	586	62.1	547	39	6.6	358	16	1	73	269
55 to 59 years .....	497	360	72.4	338	21	6.0	137	7	7	37	93
60 to 64 years .....	447	228	50.8	209	17	7.7	221	9	1	36	175
65 years and over .....	947	130	13.7	124	6	4.3	818	24	1	74	720
65 to 69 years .....	373	80	21.6	77	3	4.0	293	8	1	28	257
70 years and over .....	574	49	8.6	47	2	4.7	525	16	1	46	483
<b>Women</b>											
16 years and over .....	11,224	6,507	58.0	5,648	858	13.2	4,717	2,724	681	284	1,028
16 to 19 years .....	1,098	435	39.6	283	152	34.9	663	94	461	1	106
16 to 17 years .....	557	157	28.2	93	64	40.5	400	27	315	3	58
18 to 19 years .....	541	278	51.4	190	88	31.7	263	67	146	1	49
20 to 24 years .....	1,405	904	64.4	693	211	23.3	501	281	126	10	84
25 to 54 years .....	6,163	4,533	73.6	4,068	469	10.3	1,630	1,232	91	90	216
25 to 34 years .....	2,819	2,073	73.5	1,793	280	13.5	746	566	64	22	93
25 to 29 years .....	1,456	1,045	71.6	890	155	14.8	411	304	39	14	54
30 to 34 years .....	1,362	1,027	75.4	902	125	12.2	335	262	25	9	39
35 to 44 years .....	1,976	1,537	77.8	1,412	125	8.1	439	332	22	25	60
35 to 39 years .....	1,136	899	79.1	814	85	9.4	237	179	15	9	33
40 to 44 years .....	840	638	75.9	598	40	6.3	202	153	8	15	26
45 to 54 years .....	1,368	924	67.5	860	63	6.9	444	334	5	43	63
45 to 49 years .....	725	523	72.2	482	41	7.9	201	152	3	18	28
50 to 54 years .....	643	400	62.2	378	22	5.5	243	182	2	25	34
55 to 64 years .....	1,153	512	44.4	489	23	4.5	641	429	2	62	148
55 to 59 years .....	602	331	55.0	315	15	4.7	271	189	1	28	52
60 to 64 years .....	551	181	32.9	174	7	4.1	370	240	1	34	96
65 years and over .....	1,405	121	8.6	117	4	3.4	1,283	687	1	121	475
65 to 69 years .....	485	77	16.0	75	2	3.0	408	244	1	26	138
70 years and over .....	920	44	4.8	42	2	4.1	876	443	1	95	337

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

(Numbers in thousands)

Age and sex	1987								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	25,794	16,576	64.3	14,652	222	14,429	1,924	11.6	9,219
16 to 19 years .....	2,667	1,094	41.0	742	12	730	353	32.2	1,573
16 to 17 years .....	1,392	421	30.3	268	6	262	153	36.4	971
18 to 19 years .....	1,275	673	52.8	474	6	468	199	29.6	602
20 to 24 years .....	3,162	2,213	70.0	1,776	23	1,753	437	19.7	949
25 to 54 years .....	14,566	11,575	79.5	10,530	134	10,396	1,045	9.0	2,989
25 to 34 years .....	6,629	5,278	79.6	4,676	58	4,618	602	11.4	1,352
25 to 29 years .....	3,410	2,665	78.2	2,336	27	2,308	330	12.4	744
30 to 34 years .....	3,220	1,394	43.3	2,341	31	2,310	272	19.5	607
35 to 44 years .....	4,718	3,860	82.2	3,583	41	3,542	297	7.6	839
35 to 39 years .....	2,708	2,240	82.7	2,048	22	2,028	191	8.5	467
40 to 44 years .....	2,010	1,639	81.5	1,535	20	1,515	105	6.4	372
45 to 54 years .....	3,218	2,418	75.2	2,271	36	2,235	147	6.1	800
45 to 49 years .....	1,715	1,352	78.8	1,266	14	1,250	88	6.5	363
50 to 54 years .....	1,503	1,066	70.9	1,001	21	985	60	5.6	437
55 to 64 years .....	2,593	1,380	53.2	1,306	35	1,266	79	5.7	1,213
55 to 59 years .....	1,370	868	63.3	820	19	801	48	5.5	502
60 to 64 years .....	1,223	512	41.9	481	16	465	31	6.1	711
65 years and over .....	2,807	314	11.2	303	19	285	11	3.3	2,494
65 to 69 years .....	1,050	204	19.4	198	7	190	7	3.4	846
70 years and over .....	1,757	109	6.2	105	12	95	10	9.2	1,647
<b>Men</b>									
16 years and over .....	11,710	8,428	72.0	7,459	189	7,270	969	11.5	3,282
16 to 19 years .....	1,320	566	42.9	382	10	372	184	32.5	754
16 to 17 years .....	700	222	31.7	141	5	136	81	36.5	478
18 to 19 years .....	620	344	55.4	241	5	236	103	29.9	276
20 to 24 years .....	1,465	1,120	76.4	908	21	887	211	18.9	346
25 to 54 years .....	6,608	5,838	88.3	5,319	111	5,208	518	8.9	770
25 to 34 years .....	3,027	2,694	89.0	2,403	48	2,356	290	10.8	333
25 to 29 years .....	1,566	1,373	87.7	1,216	21	1,195	157	11.4	193
30 to 34 years .....	1,461	1,321	90.4	1,188	27	1,161	133	10.1	140
35 to 44 years .....	2,137	1,913	89.5	1,761	32	1,728	152	8.0	224
35 to 39 years .....	1,235	1,112	90.1	1,017	17	1,001	95	8.6	122
40 to 44 years .....	902	800	88.7	744	16	728	57	7.1	102
45 to 54 years .....	1,444	1,231	85.3	1,155	31	1,124	76	6.2	213
45 to 49 years .....	771	676	87.7	636	13	622	41	6.0	95
50 to 54 years .....	673	555	82.5	519	18	502	36	6.4	118
55 to 64 years .....	1,166	739	63.4	691	30	661	49	6.6	427
55 to 59 years .....	618	452	73.2	425	14	411	27	6.0	166
60 to 64 years .....	548	287	52.4	265	15	250	22	7.6	261
65 years and over .....	1,150	166	14.4	160	18	142	6	3.6	985
65 to 69 years .....	452	106	23.5	103	7	95	4	3.5	346
70 years and over .....	698	59	8.5	57	11	47	2	3.9	638
<b>Women</b>									
16 years and over .....	14,085	8,148	57.8	7,192	33	7,159	955	11.7	5,937
16 to 19 years .....	1,347	529	39.2	360	2	358	169	31.9	819
16 to 17 years .....	692	199	28.8	127	1	126	72	36.3	493
18 to 19 years .....	655	329	50.3	233	1	232	96	29.3	326
20 to 24 years .....	1,697	1,093	64.4	868	2	866	225	20.6	604
25 to 54 years .....	7,958	5,737	72.1	5,211	23	5,188	527	9.2	2,219
25 to 34 years .....	3,603	2,584	71.7	2,272	10	2,262	312	12.1	1,019
25 to 29 years .....	1,844	1,292	70.1	1,120	6	1,113	173	13.4	551
30 to 34 years .....	1,759	1,292	73.4	1,153	4	1,149	139	10.7	467
35 to 44 years .....	2,581	1,967	76.2	1,822	8	1,814	144	7.3	615
35 to 39 years .....	1,473	1,128	76.6	1,031	5	1,027	96	8.5	345
40 to 44 years .....	1,108	839	75.7	791	4	787	48	5.7	270
45 to 54 years .....	1,774	1,187	66.9	1,116	5	1,112	71	6.0	587
45 to 49 years .....	944	676	71.6	630	1	628	47	6.9	268
50 to 54 years .....	830	511	61.6	487	3	483	24	4.7	319
55 to 64 years .....	1,426	640	44.9	610	5	605	30	4.7	786
55 to 59 years .....	752	416	55.2	395	4	390	21	5.0	337
60 to 64 years .....	674	225	33.3	215	1	215	9	4.1	450
65 years and over .....	1,657	148	8.9	143	1	143	4	3.0	1,509
65 to 69 years .....	598	98	16.4	95	-	95	3	2.7	500
70 years and over .....	1,059	50	4.7	48	1	48	2	3.6	1,009

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

**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	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	180,587	182,753	78,523	79,565	87,567	88,583	14,496	14,606
Civilian labor force .....	117,834	119,865	61,320	62,095	48,589	49,783	7,926	7,988
Percent of population .....	65.3	65.6	78.1	78.0	55.5	56.2	54.7	54.7
Employed .....	109,597	112,440	57,569	58,726	45,556	47,074	6,472	6,640
Agriculture .....	3,163	3,208	2,292	2,329	614	622	258	258
Nonagricultural industries .....	106,434	109,232	55,277	56,397	44,943	46,453	6,215	6,382
Unemployed .....	8,237	7,425	3,751	3,369	3,032	2,709	1,454	1,347
Unemployment rate .....	7.0	6.2	6.1	5.4	6.2	5.4	18.3	16.9
Not in labor force .....	62,752	62,888	17,203	17,470	38,979	38,800	6,570	6,618
<b>White</b>								
Civilian noninstitutional population .....	155,432	156,958	68,413	69,175	75,140	75,845	11,879	11,939
Civilian labor force .....	101,801	103,290	53,675	54,232	41,264	42,164	6,862	6,893
Percent of population .....	65.5	65.8	78.5	78.4	54.9	55.6	57.8	57.7
Employed .....	95,660	97,789	50,818	51,649	39,050	40,242	5,792	5,898
Agriculture .....	2,958	2,986	2,131	2,150	580	590	247	246
Nonagricultural industries .....	92,703	94,803	48,687	49,499	38,471	39,652	5,545	5,652
Unemployed .....	6,140	5,501	2,857	2,584	2,213	1,922	1,070	995
Unemployment rate .....	6.0	5.3	5.3	4.8	5.4	4.6	15.6	14.4
Not in labor force .....	53,631	53,669	14,738	14,942	33,876	33,681	5,017	5,045
<b>Black</b>								
Civilian noninstitutional population .....	19,989	20,352	7,907	8,063	9,945	10,126	2,137	2,163
Civilian labor force .....	12,654	12,993	5,915	6,023	5,855	6,071	883	899
Percent of population .....	63.3	63.8	74.8	74.7	58.9	60.0	41.3	41.6
Employed .....	10,814	11,309	5,150	5,357	5,128	5,365	536	587
Agriculture .....	155	164	125	135	22	20	8	9
Nonagricultural industries .....	10,659	11,145	5,025	5,222	5,106	5,345	529	578
Unemployed .....	1,840	1,684	765	666	728	706	347	312
Unemployment rate .....	14.5	13.0	12.9	11.1	12.4	11.6	39.3	34.7
Not in labor force .....	7,335	7,359	1,991	2,040	4,090	4,054	1,254	1,264

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	1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	12,869	6,220	48.3	5,428	1,098	4,330	792	154	638	12.7
16 to 19 years .....	8,920	3,899	43.7	3,281	341	2,940	618	86	532	15.9
20 to 24 years .....	3,949	2,321	58.8	2,147	757	1,390	174	68	106	7.5
High school .....	6,860	2,865	41.8	2,345	169	2,176	520	69	451	18.2
College .....	6,009	3,355	55.8	3,083	930	2,153	272	85	187	8.1
Full-time students .....	5,028	2,488	49.5	2,264	383	1,881	225	59	166	9.0
Part-time students .....	981	867	88.4	819	547	272	48	26	21	5.5
Men, 16 to 24 years .....	6,550	3,104	47.4	2,680	569	2,111	424	85	339	13.7
16 to 19 years .....	4,555	1,971	43.3	1,638	190	1,448	333	47	286	16.9
20 to 24 years .....	1,995	1,133	56.8	1,042	379	663	91	38	53	8.0
High school .....	3,607	1,508	41.8	1,218	102	1,116	290	39	251	19.2
College .....	2,943	1,597	54.3	1,462	467	995	134	46	88	8.4
Full-time students .....	2,497	1,198	48.0	1,089	213	876	109	32	77	9.1
Part-time students .....	446	399	89.5	374	254	120	25	14	11	6.3
Women, 16 to 24 years .....	6,319	3,116	49.3	2,748	529	2,218	368	69	299	11.8
16 to 19 years .....	4,365	1,928	44.2	1,643	152	1,491	285	39	246	14.8
20 to 24 years .....	1,954	1,188	60.8	1,105	378	727	84	30	53	7.0
High school .....	3,252	1,357	41.7	1,127	67	1,060	230	30	200	17.0
College .....	3,067	1,759	57.3	1,621	463	1,158	138	39	100	7.9
Full-time students .....	2,531	1,291	51.0	1,175	169	1,006	116	27	89	9.0
Part-time students .....	536	468	87.4	446	293	152	22	12	10	4.8
<b>White</b>										
Total, 16 to 24 years .....	10,549	5,416	51.3	4,823	952	3,871	593	103	490	10.9
16 to 19 years .....	7,261	3,414	47.0	2,945	300	2,645	469	61	408	13.7
20 to 24 years .....	3,287	2,002	60.9	1,878	651	1,226	124	42	82	6.2
Men .....	5,394	2,708	50.2	2,385	494	1,891	323	58	265	11.9
Women .....	5,155	2,708	52.5	2,438	458	1,980	270	45	225	10.0
High school .....	5,482	2,494	45.5	2,104	145	1,959	390	47	343	15.6
College .....	5,067	2,922	57.7	2,719	807	1,912	203	56	147	7.0
Full-time students .....	4,235	2,177	51.4	2,007	332	1,675	170	38	132	7.8
Part-time students .....	832	745	89.5	712	475	237	33	18	15	4.4
<b>Black</b>										
Total, 16 to 24 years .....	1,750	595	34.0	423	105	318	172	43	129	28.9
16 to 19 years .....	1,307	382	29.2	251	33	218	131	22	109	34.3
20 to 24 years .....	443	214	48.2	172	72	100	41	22	20	19.3
Men .....	858	290	33.8	205	53	152	85	22	63	29.2
Women .....	892	305	34.2	218	52	166	88	22	66	28.7
High school .....	1,115	302	27.1	186	19	167	116	19	97	38.3
College .....	635	293	46.2	237	86	151	57	25	32	19.3
Full-time students .....	531	210	39.6	165	37	128	45	17	28	21.3
Part-time students .....	104	83	79.8	71	49	23	12	8	4	14.2
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,010	407	40.3	343	94	249	64	13	50	15.6
16 to 19 years .....	723	229	31.6	181	24	157	48	7	41	21.0
20 to 24 years .....	288	178	62.0	163	70	92	16	6	10	8.7
Men .....	523	214	41.0	178	51	128	36	9	26	16.7
Women .....	488	193	39.5	165	44	121	28	4	24	14.5
High school .....	621	179	28.8	137	17	121	42	6	35	23.2
College .....	390	228	58.5	206	77	129	22	7	15	9.6
Full-time students .....	292	145	49.6	128	28	100	17	4	13	11.7
Part-time students .....	98	83	85.2	78	50	28	5	3	2	6.0

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	1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	20,707	16,745	80.9	14,736	12,038	2,698	2,009	1,729	279	12.0
16 to 19 years .....	5,686	4,089	71.9	3,359	2,113	1,246	729	567	162	17.8
20 to 24 years .....	15,021	12,656	84.3	11,377	9,924	1,452	1,279	1,162	117	10.1
Less than 4 years of high school .....	5,678	3,635	64.0	2,843	1,942	902	792	648	144	21.8
4 years of high school .....	9,758	8,274	84.8	7,389	6,193	1,196	884	789	95	10.7
1 to 3 years of college .....	3,638	3,275	90.0	3,028	2,544	485	246	210	37	7.5
4 years of college or more .....	1,633	1,561	95.6	1,475	1,359	116	86	83	4	5.5
Men, 16 to 24 years .....	9,980	8,845	88.6	7,758	6,668	1,091	1,087	983	104	12.3
16 to 19 years .....	2,780	2,141	77.0	1,742	1,176	567	398	326	72	18.6
20 to 24 years .....	7,200	6,704	93.1	6,016	5,492	524	688	657	31	10.3
Less than 4 years of high school .....	2,981	2,290	76.8	1,810	1,364	446	480	417	62	21.0
4 years of high school .....	4,639	4,319	93.1	3,863	3,442	421	455	429	27	10.5
1 to 3 years of college .....	1,612	1,514	94.0	1,404	1,223	181	110	97	13	7.3
4 years of college or more .....	747	723	96.7	681	638	43	41	40	2	5.7
Women, 16 to 24 years .....	10,727	7,899	73.6	6,978	5,370	1,608	922	746	176	11.7
16 to 19 years .....	2,906	1,948	67.0	1,617	938	679	331	241	90	17.0
20 to 24 years .....	7,821	5,952	76.1	5,361	4,432	928	591	505	86	9.9
Less than 4 years of high school .....	2,696	1,346	49.9	1,034	577	456	312	231	82	23.2
4 years of high school .....	5,118	3,955	77.3	3,526	2,751	776	429	360	69	10.8
1 to 3 years of college .....	2,027	1,760	86.8	1,624	1,321	303	136	113	24	7.7
4 years of college or more .....	886	838	94.6	794	721	72	45	43	2	5.3
<b>White</b>										
Total, 16 to 24 years .....	17,198	14,242	82.8	12,823	10,547	2,276	1,419	1,217	202	10.0
16 to 19 years .....	4,877	3,479	71.4	2,953	1,878	1,075	526	407	119	15.1
20 to 24 years .....	12,521	10,763	86.0	9,870	8,669	1,201	893	810	83	8.3
Men .....	8,350	7,556	90.5	6,763	5,866	897	793	718	75	10.5
Women .....	8,848	6,686	75.6	6,060	4,680	1,380	626	499	127	9.4
Less than 4 years of high school .....	4,547	3,042	66.9	2,479	1,713	766	564	462	102	18.5
4 years of high school .....	8,119	7,013	86.4	6,393	5,392	1,001	620	548	72	8.8
1 to 3 years of college .....	3,051	2,767	90.7	2,603	2,198	405	164	138	25	5.9
4 years of college or more .....	1,481	1,420	95.9	1,348	1,244	104	72	69	3	5.1
<b>Black</b>										
Total, 16 to 24 years .....	2,991	2,121	70.9	1,585	1,225	360	536	470	66	25.3
16 to 19 years .....	856	517	60.4	336	194	143	181	144	36	34.9
20 to 24 years .....	2,135	1,604	75.1	1,249	1,031	217	355	325	30	22.2
Men .....	1,380	1,087	78.8	826	662	164	261	238	23	24.0
Women .....	1,611	1,034	64.2	759	562	196	275	231	44	26.6
Less than 4 years of high school .....	970	502	51.8	295	180	115	208	171	37	41.3
4 years of high school .....	1,430	1,098	76.8	857	686	170	241	221	20	22.0
1 to 3 years of college .....	484	420	86.8	344	278	66	75	66	9	18.0
4 years of college or more .....	108	101	93.6	90	81	9	11	11	1	11.4
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,232	1,628	72.9	1,403	1,181	222	224	201	23	13.8
16 to 19 years .....	609	381	62.6	293	209	84	88	72	16	23.1
20 to 24 years .....	1,623	1,246	76.8	1,110	973	138	136	129	7	10.9
Men .....	1,133	996	88.0	867	767	101	129	121	8	12.9
Women .....	1,099	631	57.4	536	415	121	95	80	15	15.1
Less than 4 years of high school .....	1,098	699	63.7	574	477	97	126	112	14	18.0
4 years of high school .....	827	663	80.2	583	494	89	79	71	8	12.0
1 to 3 years of college .....	250	213	85.1	195	162	33	17	16	2	8.2
4 years of college or more .....	57	53	92.6	51	46	3	2	2	-	3.2

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

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	1987							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	92,957	91,251	1,706	19,483	15,788	3,695	5,979	1,446
16 to 19 years .....	2,454	2,321	133	4,185	3,811	574	653	694
16 to 17 years .....	443	416	27	2,292	2,089	203	184	464
18 to 19 years .....	2,011	1,905	106	1,894	1,523	371	469	230
20 years and over .....	90,502	88,929	1,573	15,298	12,177	3,121	5,325	752
20 to 24 years .....	10,681	10,403	278	2,842	2,147	695	1,230	223
25 years and over .....	79,820	78,526	1,294	12,455	10,029	2,426	4,096	529
25 to 54 years .....	68,753	67,645	1,108	9,017	6,991	2,026	3,724	409
55 years and over .....	11,066	10,880	188	3,438	3,038	400	372	119
<b>Men, 16 years and over</b> .....	55,746	54,735	1,011	6,380	4,858	1,502	3,520	580
16 to 19 years .....	1,365	1,292	73	2,015	1,742	273	373	358
20 years and over .....	54,381	53,443	938	4,365	3,118	1,229	3,147	222
20 to 24 years .....	5,671	5,699	172	1,187	874	313	895	84
25 years and over .....	48,511	47,744	767	3,157	2,242	915	2,452	138
25 to 54 years .....	41,400	40,744	656	1,735	985	750	2,201	82
55 years and over .....	7,110	6,999	111	1,422	1,257	165	252	55
<b>Women, 16 years and over</b> .....	37,210	36,515	695	13,124	10,930	2,194	2,458	866
16 to 19 years .....	1,089	1,029	60	2,171	1,870	301	280	336
20 years and over .....	36,121	35,487	634	10,953	9,060	1,893	2,178	530
20 to 24 years .....	4,810	4,704	106	1,656	1,273	383	535	139
25 years and over .....	31,310	30,783	527	9,297	7,787	1,510	1,644	391
25 to 54 years .....	27,354	26,902	452	7,281	6,006	1,275	1,523	327
55 years and over .....	3,956	3,881	75	2,018	1,781	235	120	64
<b>White</b>								
Men, 16 years and over .....	49,139	48,286	853	5,506	4,316	1,192	2,679	453
16 to 19 years .....	1,217	1,155	62	1,782	1,557	225	275	273
20 years and over .....	47,923	47,132	791	3,725	2,759	966	2,403	180
20 to 24 years .....	5,144	5,001	143	1,008	765	241	501	67
25 years and over .....	42,780	42,131	649	2,720	1,994	726	1,902	113
25 to 54 years .....	36,384	35,830	554	1,435	841	594	1,697	87
55 years and over .....	8,396	8,301	95	1,286	1,153	133	205	46
Women, 16 years and over .....	31,414	30,847	567	11,726	9,982	1,766	1,893	676
16 to 19 years .....	982	910	52	1,938	1,883	255	193	254
20 years and over .....	30,452	29,937	515	9,790	8,279	1,511	1,500	422
20 to 24 years .....	4,176	4,091	85	1,422	1,118	304	351	98
25 years and over .....	26,276	25,846	430	8,369	7,181	1,208	1,149	324
25 to 54 years .....	22,839	22,472	367	6,586	5,557	1,029	1,054	269
55 years and over .....	3,437	3,374	63	1,784	1,604	180	95	55
<b>Black</b>								
Men, 16 years and over .....	5,011	4,879	132	650	390	260	720	106
16 to 19 years .....	121	111	10	183	143	40	87	73
20 years and over .....	4,889	4,767	122	467	247	220	633	33
20 to 24 years .....	594	570	24	134	71	63	173	13
25 years and over .....	4,297	4,199	98	333	178	157	459	21
25 to 54 years .....	3,735	3,651	84	223	94	129	423	13
55 years and over .....	561	548	13	110	82	28	36	8
Women, 16 years and over .....	4,566	4,463	103	1,082	716	366	692	167
16 to 19 years .....	105	98	7	179	139	40	79	73
20 years and over .....	4,462	4,365	97	903	577	326	613	94
20 to 24 years .....	510	491	19	183	111	72	174	37
25 years and over .....	3,952	3,874	78	720	466	254	439	57
25 to 54 years .....	3,544	3,476	68	520	314	206	420	48
55 years and over .....	407	398	9	200	152	48	19	9

<sup>1</sup> 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	1987									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	97,755	66.1	91,625	6,130	6.3	50,127	23,447	6,896	2,196	17,588
Husbands .....	39,769	78.5	38,288	1,482	3.7	10,910	208	192	865	9,645
With employed wife .....	24,995	91.9	24,169	826	3.3	2,212	75	111	321	1,705
With unemployed wife .....	1,082	92.4	941	141	13.1	89	4	4	18	63
With wife not in labor force .....	13,692	61.4	13,178	514	3.8	8,609	129	77	527	7,877
Wives .....	28,378	56.0	27,207	1,171	4.1	22,301	18,407	326	341	3,227
With employed husband .....	25,110	65.6	24,169	941	3.7	13,178	11,784	273	122	999
With unemployed husband .....	967	65.3	826	141	14.6	514	456	13	11	34
With husband not in labor force .....	2,301	21.1	2,212	89	3.9	8,609	6,167	40	209	2,193
Relatives in married-couple families .....	13,692	64.3	12,098	1,594	11.6	7,607	791	4,561	346	1,910
16 to 19 years .....	5,286	54.8	4,534	753	14.2	4,356	133	3,472	17	735
20 to 24 years .....	5,014	77.7	4,511	503	10.0	1,437	139	964	45	289
25 years and over .....	3,391	65.1	3,053	338	10.0	1,814	519	125	284	886
Women who maintain families .....	6,595	62.1	5,983	611	9.3	4,019	2,840	162	196	821
Relatives in families maintained by women .....	5,547	60.3	4,626	921	16.6	3,652	795	1,379	297	1,181
16 to 19 years .....	1,462	49.6	1,086	376	25.7	1,484	102	1,092	8	281
20 to 24 years .....	1,637	74.9	1,374	263	16.1	549	129	217	29	174
25 years and over .....	2,448	60.2	2,166	282	11.5	1,619	564	70	260	726
Men who maintain families .....	2,065	76.2	1,923	142	6.9	646	45	31	79	491
Relatives in families maintained by men .....	1,709	63.3	1,500	209	12.2	993	361	245	72	315
16 to 19 years .....	306	54.3	238	67	22.0	258	21	177	1	59
20 to 24 years .....	486	80.4	426	60	12.4	119	31	53	3	32
25 years and over .....	918	59.8	836	82	8.9	616	309	15	68	224

<sup>1</sup> 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	
	1986	1987	1986	1987	1986	1987	1986	1987
Total, 16 years and over .....	4,530	4,101	6.9	6.2	3,707	3,324	7.1	6.2
Married, spouse present .....	1,819	1,625	4.4	3.9	1,479	1,273	5.2	4.3
Widowed, divorced, or separated .....	565	498	8.8	7.6	787	727	7.7	7.0
Single (never married) .....	2,146	1,978	12.2	11.1	1,442	1,323	10.7	9.5
White, 16 years and over .....	3,433	3,132	6.0	5.4	2,708	2,369	6.1	5.2
Married, spouse present .....	1,503	1,359	4.0	3.6	1,226	1,045	4.8	4.0
Widowed, divorced, or separated .....	420	373	7.9	6.8	576	509	7.0	6.1
Single (never married) .....	1,510	1,401	10.3	9.4	906	815	8.3	7.3
Black, 16 years and over .....	946	826	14.8	12.7	894	858	14.2	13.2
Married, spouse present .....	245	206	8.0	6.5	197	183	8.5	7.6
Widowed, divorced, or separated .....	133	113	14.0	11.9	193	200	10.9	10.9
Single (never married) .....	568	507	24.2	21.5	505	476	23.0	20.9
Total, 25 years and over .....	2,852	2,590	5.4	4.8	2,280	2,034	5.5	4.8
Married, spouse present .....	1,650	1,487	4.2	3.7	1,206	1,040	4.6	3.9
Widowed, divorced, or separated .....	532	468	8.7	7.4	701	647	7.2	6.5
Single (never married) .....	670	636	8.8	8.0	372	346	6.8	6.0
White, 25 years and over .....	2,212	2,016	4.7	4.2	1,710	1,473	4.9	4.1
Married, spouse present .....	1,360	1,239	3.8	3.5	1,002	855	4.3	3.6
Widowed, divorced, or separated .....	390	350	7.7	6.7	509	448	6.5	5.7
Single (never married) .....	462	426	7.4	6.5	200	169	4.8	3.9
Black, 25 years and over .....	540	480	10.9	9.4	500	495	10.1	9.6
Married, spouse present .....	225	190	7.7	6.2	158	146	7.5	6.6
Widowed, divorced, or separated .....	130	105	14.0	11.3	178	182	10.3	10.3
Single (never married) .....	186	185	17.0	16.2	164	168	15.0	14.3

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**10. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1986	1987	1986	1987	1986	1987	1986	1987
Total, 16 years and over .....	8,237	7,425	7.0	6.2	6.9	6.2	7.1	6.2
Managerial and professional specialty .....	653	650	2.4	2.3	2.2	2.2	2.7	2.4
Executive, administrative, and managerial .....	336	350	2.6	2.6	2.2	2.4	3.3	2.9
Professional specialty .....	317	300	2.2	2.0	2.1	2.0	2.3	2.1
Technical, sales, and administrative support .....	1,700	1,595	4.7	4.3	3.8	3.7	5.2	4.7
Technicians and related support .....	114	104	3.3	3.0	3.4	3.2	3.1	2.8
Sales occupations .....	718	691	5.1	4.9	3.4	3.4	6.9	6.4
Administrative support, including clerical .....	868	799	4.7	4.2	4.7	4.5	4.6	4.1
Service occupations .....	1,381	1,259	8.6	7.7	8.4	7.5	8.8	7.8
Private household .....	69	55	6.5	5.6	5.6	7.9	6.6	5.5
Protective service .....	90	94	4.8	4.7	4.2	4.3	8.7	7.0
Service, except private household and protective .....	1,223	1,110	9.3	8.3	9.9	8.7	9.0	8.1
Precision production, craft, and repair .....	1,038	875	7.2	6.1	7.0	6.0	9.2	6.4
Mechanics and repairers .....	226	191	4.9	4.1	4.9	4.1	5.7	3.5
Construction trades .....	522	470	9.6	8.6	9.5	8.5	14.1	14.4
Other precision production, craft, and repair .....	290	214	6.6	5.0	5.9	4.7	9.1	5.9
Operators, fabricators, and laborers .....	2,089	1,820	10.9	9.4	10.5	9.3	11.8	9.9
Machine operators, assemblers, and inspectors .....	907	777	10.3	8.9	9.1	8.0	11.9	10.0
Transportation and material moving occupations .....	431	366	8.6	7.2	8.7	7.3	8.0	6.1
Handlers, equipment cleaners, helpers, and laborers .....	752	677	13.8	12.4	13.9	12.7	13.3	11.0
Construction laborers .....	198	189	21.0	19.8	20.8	19.6	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	554	488	12.3	10.8	12.2	10.9	12.7	10.6
Farming, forestry, and fishing .....	293	268	7.8	7.1	7.5	7.0	9.7	7.6
No previous work experience .....	1,031	921						
16 to 19 years .....	696	618						
20 to 24 years .....	201	172						
25 years and over .....	133	131						

<sup>1</sup> Percent not shown where base is less than 35,000.

11. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1986	1987	1986	1987	1986	1987	1986	1987
Total, 16 years and over .....	8,237	7,425	7.0	6.2	6.9	6.2	7.1	6.2
Nonagricultural private wage and salary workers .....	6,195	5,520	7.0	6.2	7.1	6.3	6.9	6.0
Mining .....	134	87	13.5	10.0	14.6	10.7	7.5	5.7
Construction .....	809	724	13.1	11.6	13.4	12.0	9.8	7.7
Manufacturing .....	1,559	1,305	7.1	6.0	6.2	5.4	9.0	7.2
Durable goods .....	910	749	6.9	5.8	6.4	5.6	8.4	6.4
Lumber and wood products .....	73	59	10.3	8.0	10.3	8.0	9.9	8.1
Furniture and fixtures .....	53	40	7.7	6.1	7.2	5.9	9.0	6.5
Stone, clay, and glass products .....	50	38	7.8	6.2	6.9	6.5	10.8	5.0
Primary metal industries .....	86	63	10.0	7.3	10.1	6.9	9.4	10.0
Fabricated metal products .....	115	93	8.3	7.0	8.4	6.9	8.3	7.3
Machinery, except electrical .....	166	131	6.3	5.2	6.0	4.8	7.4	6.2
Electrical machinery, equipment, and supplies .....	147	108	6.4	4.9	4.5	4.3	9.4	5.6
Transportation equipment .....	142	153	5.2	5.7	4.7	5.3	7.1	7.1
Automobiles .....	89	99	6.9	7.9	5.7	7.0	11.3	11.5
Other transportation equipment .....	53	54	3.7	3.7	3.8	3.7	3.0	3.7
Professional and photographic equipment .....	31	27	4.3	3.9	3.1	3.7	6.0	4.2
Other durable goods industries .....	46	36	8.7	6.9	7.7	6.5	10.4	7.3
Nondurable goods .....	650	556	7.4	6.3	5.7	5.0	9.6	8.0
Food and kindred products .....	186	159	9.9	8.6	7.7	7.3	14.2	11.3
Textile mill products .....	57	43	7.5	5.7	6.5	4.1	8.5	7.5
Apparel and other textile products .....	137	123	10.7	9.7	8.5	6.2	11.4	10.7
Paper and allied products .....	30	30	4.1	3.9	3.2	3.9	6.8	4.0
Printing and publishing .....	83	79	4.8	4.4	3.9	4.1	5.8	4.8
Chemicals and allied products .....	64	51	5.1	4.1	4.4	3.5	6.5	5.3
Rubber and miscellaneous plastics products .....	58	41	7.9	5.4	6.7	5.2	10.1	5.9
Other nondurable goods industries .....	34	30	8.3	7.5	5.8	5.3	13.1	10.9
Transportation and public utilities .....	313	277	5.1	4.5	5.3	4.5	4.5	4.2
Transportation .....	233	210	6.7	5.9	7.2	6.0	5.2	5.4
Communications and other public utilities .....	80	67	3.0	2.5	2.5	2.2	4.0	3.2
Wholesale and retail trade .....	1,706	1,582	7.6	6.9	6.7	6.2	8.5	7.7
Wholesale trade .....	229	201	5.3	4.5	5.0	4.2	6.1	5.3
Retail trade .....	1,477	1,381	8.1	7.5	7.3	6.9	8.8	8.0
Finance, insurance, and real estate .....	239	225	3.5	3.1	3.3	3.2	3.6	3.1
Service industries .....	1,435	1,320	6.1	5.4	6.5	5.8	5.9	5.2
Professional services .....	519	489	4.0	3.6	3.6	3.4	4.1	3.7
Other service industries .....	916	831	8.8	7.7	8.8	7.7	8.9	7.6
Agricultural wage and salary workers .....	222	191	12.5	10.5	12.0	10.3	14.5	11.2
Government, self-employed, and unpaid family workers .....	790	794	2.9	2.9	2.8	2.8	3.1	2.9
No previous work experience .....	1,031	921	-	-	-	-	-	-

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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	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	8,237	7,425	3,751	3,369	3,032	2,709	1,454	1,347	6,140	5,501	1,840	1,684
Job losers .....	4,033	3,566	2,568	2,289	1,225	1,067	240	210	3,076	2,704	846	761
On layoff .....	1,090	943	703	613	335	285	51	45	922	782	145	144
Other job losers .....	2,943	2,623	1,865	1,676	890	782	189	165	2,154	1,922	701	617
Job leavers .....	1,015	965	444	413	426	406	145	146	825	784	161	151
Reentrants .....	2,160	1,974	611	558	1,175	1,041	374	375	1,560	1,401	526	501
New entrants .....	1,029	920	128	108	206	194	695	617	680	613	306	271
<b>PERCENT DISTRIBUTION</b>												
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	48.9	48.0	68.5	68.0	40.4	39.4	16.5	15.6	50.1	49.1	46.0	45.2
On layoff .....	13.2	12.7	18.8	18.2	11.1	10.5	3.5	3.4	15.0	14.2	7.9	8.6
Other job losers .....	35.7	35.3	49.7	49.8	29.3	28.9	13.0	12.2	35.1	34.9	38.1	36.6
Job leavers .....	12.3	13.0	11.8	12.3	14.1	15.0	10.0	10.8	13.4	14.2	8.8	8.9
Reentrants .....	26.2	26.6	16.3	16.6	38.7	38.4	25.7	27.8	25.4	25.5	28.6	29.8
New entrants .....	12.5	12.4	3.4	3.2	6.8	7.2	47.8	45.8	11.1	11.1	16.7	16.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	3.4	3.0	4.1	3.7	2.5	2.2	3.0	2.7	3.0	2.7	6.7	5.9
Job leavers .....	.9	.8	.7	.7	.9	.8	1.8	1.8	.8	.8	1.3	1.2
Reentrants .....	1.8	1.6	1.0	.9	2.4	2.1	4.7	4.7	1.5	1.4	4.2	3.9
New entrants .....	.9	.8	.2	.2	.4	.4	8.8	7.7	.7	.6	2.4	2.1

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

(Percent distribution)

Reason, sex, and age	1987						
	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 .....	7,425	100.0	43.7	29.6	26.7	12.7	14.0
Job losers .....	3,566	100.0	35.4	30.3	34.4	16.2	18.2
On layoff .....	943	100.0	51.4	28.9	19.7	12.0	7.7
Other job losers .....	2,623	100.0	29.6	30.8	39.6	17.7	22.0
Job leavers .....	965	100.0	48.6	30.1	21.3	9.9	11.4
Reentrants .....	1,974	100.0	51.8	28.5	19.7	9.7	10.0
New entrants .....	920	100.0	53.6	28.6	17.8	8.7	9.1
Men, 20 years and over .....	3,369	100.0	35.7	29.7	34.7	15.1	19.6
Job losers .....	2,289	100.0	32.5	29.6	37.9	16.8	21.1
On layoff .....	613	100.0	48.6	30.0	21.4	12.7	8.7
Other job losers .....	1,676	100.0	26.6	29.4	43.9	18.3	25.6
Job leavers .....	413	100.0	42.3	30.5	27.1	10.8	16.3
Reentrants .....	558	100.0	42.8	29.9	27.3	11.9	15.4
New entrants .....	108	100.0	39.8	26.1	34.2	13.5	20.7
Women, 20 years and over .....	2,709	100.0	46.1	29.8	24.1	12.2	11.9
Job losers .....	1,067	100.0	37.6	31.5	30.9	16.2	14.7
On layoff .....	285	100.0	53.7	28.1	18.2	11.7	6.6
Other job losers .....	782	100.0	31.7	32.8	35.5	17.8	17.7
Job leavers .....	406	100.0	49.6	30.0	20.4	10.8	9.6
Reentrants .....	1,041	100.0	52.7	28.3	19.0	9.5	9.5
New entrants .....	194	100.0	49.8	28.5	21.7	7.9	13.8
Both sexes, 16 to 19 years .....	1,347	100.0	59.1	28.9	12.0	7.6	4.5
Job losers .....	210	100.0	55.5	31.4	13.2	9.2	3.9
On layoff .....	45	100.0	74.7	19.2	6.1	4.4	1.7
Other job losers .....	165	100.0	50.2	34.7	15.1	10.6	4.5
Job leavers .....	146	100.0	63.8	28.9	7.3	4.7	2.7
Reentrants .....	375	100.0	62.7	27.0	10.4	7.0	3.4
New entrants .....	617	100.0	57.2	29.2	13.7	8.0	5.6

14. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	1986	1987	1986	1987	1986	1987	1986	1987
Total, 16 years and over .....	8,237	7,425	100.0	100.0	6,708	5,979	100.0	100.0
Less than 5 weeks .....	3,448	3,246	41.9	43.7	2,537	2,362	37.8	39.5
5 to 14 weeks .....	2,557	2,196	31.0	29.6	2,143	1,813	31.9	30.3
5 to 10 weeks .....	1,863	1,606	22.6	21.6	1,542	1,308	23.0	21.9
11 to 14 weeks .....	695	589	8.4	7.9	601	506	9.0	8.5
15 weeks and over .....	2,232	1,983	27.1	26.7	2,029	1,804	30.2	30.2
15 to 26 weeks .....	1,045	943	12.7	12.7	934	837	13.9	14.0
27 weeks and over .....	1,187	1,040	14.4	14.0	1,095	967	16.3	16.2
27 to 51 weeks .....	472	438	5.7	5.9	432	406	6.4	6.8
52 weeks and over .....	715	602	8.7	8.1	662	561	9.9	9.4
Average (mean) duration, in weeks .....	15.0	14.5			16.5	16.1		
Median duration, in weeks .....	6.9	6.5			8.0	7.6		

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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	
								1986	1987	1986	1987
	1987										
Total, 16 years and over .....	7,425	3,246	2,196	943	1,040	14.5	6.5	41.9	43.7	27.1	26.7
16 to 19 years .....	1,347	797	389	102	60	7.6	4.2	56.7	59.1	13.1	12.0
20 to 24 years .....	1,453	706	445	166	137	11.4	5.3	45.4	48.6	22.5	20.9
25 to 34 years .....	2,129	863	656	299	310	14.9	7.2	39.1	40.6	28.5	28.6
35 to 44 years .....	1,281	469	377	186	248	18.6	8.7	35.3	36.6	33.3	33.9
45 to 54 years .....	723	248	196	111	169	20.7	9.9	33.4	34.3	37.5	38.7
55 to 64 years .....	412	130	113	68	101	22.0	10.9	30.9	31.6	42.8	40.9
65 years and over .....	78	32	20	11	15	17.8	7.4	43.2	41.0	28.9	33.3
Men, 16 years and over .....	4,101	1,614	1,219	568	701	16.7	7.7	37.8	39.4	31.1	30.9
16 to 19 years .....	732	413	220	57	42	8.4	4.4	54.2	56.4	14.7	13.5
20 to 24 years .....	779	343	247	101	88	12.9	6.3	42.5	44.0	25.6	24.3
25 to 34 years .....	1,169	433	358	175	203	16.9	8.4	34.0	37.0	32.7	32.3
35 to 44 years .....	689	213	200	109	167	22.3	10.8	30.5	30.9	38.1	40.0
45 to 54 years .....	426	123	112	73	117	23.6	12.4	28.8	28.8	43.6	44.8
55 to 64 years .....	258	70	69	45	73	24.7	13.2	28.2	27.3	46.6	46.0
65 years and over .....	49	19	12	7	10	18.4	8.1	40.7	39.8	32.1	35.3
Women, 16 years and over .....	3,324	1,632	977	375	340	11.8	5.2	46.8	49.1	22.2	21.5
16 to 19 years .....	616	384	169	45	18	6.8	4.0	59.7	62.4	11.3	10.1
20 to 24 years .....	674	363	197	65	49	9.6	4.6	48.9	53.8	18.9	16.9
25 to 34 years .....	960	430	298	125	107	12.5	6.1	45.0	44.8	23.5	24.1
35 to 44 years .....	592	257	177	77	81	14.3	6.8	41.4	43.3	27.4	26.7
45 to 54 years .....	298	125	83	37	52	16.6	7.3	39.1	42.0	29.9	30.0
55 to 64 years .....	155	60	45	23	27	17.6	7.9	35.1	38.8	36.6	32.4
65 years and over .....	30	13	8	4	5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	5,501	2,468	1,621	684	728	14.0	6.2	42.8	44.9	26.1	25.7
Men .....	3,132	1,266	926	429	511	16.2	7.3	38.7	40.4	30.1	30.0
Women .....	2,369	1,202	695	255	217	11.0	4.9	48.1	50.8	21.1	19.9
Black, 16 years and over .....	1,684	671	509	224	281	16.4	7.6	38.7	39.8	30.1	29.9
Men .....	826	289	253	117	167	18.8	9.1	34.6	35.0	34.5	34.4
Women .....	858	382	256	107	113	14.1	6.4	43.0	44.5	25.4	25.7
Men, 16 years and over:											
Married, spouse present .....	1,625	533	472	276	344	19.5	10.1	31.9	32.8	36.9	38.2
Widowed, divorced, or separated .....	498	160	149	73	116	21.1	10.1	32.5	32.0	36.9	38.1
Single (never married) .....	1,978	922	598	218	240	13.3	5.7	44.2	46.6	24.6	23.2
Women, 16 years and over:											
Married, spouse present .....	1,273	615	386	147	126	11.6	5.4	46.3	48.3	22.7	21.4
Widowed, divorced, or separated .....	727	301	214	103	109	15.2	7.1	39.5	41.4	29.2	29.2
Single (never married) .....	1,323	716	377	125	105	10.2	4.6	51.4	54.1	18.0	17.4

<sup>1</sup> Data not shown where base is less than 35,000.

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	
								1986	1987	1986	1987
<b>OCCUPATION</b>											
Managerial and professional specialty .....	650	249	199	96	107	15.9	8.0	37.7	38.3	29.1	31.1
Technical, sales, and administrative support .....	1,595	719	472	205	198	13.2	6.1	43.9	45.1	24.7	25.3
Service occupations .....	1,259	598	368	136	157	13.5	5.6	44.4	47.5	25.0	23.3
Precision production, craft, and repair .....	875	343	265	123	143	16.3	7.9	36.5	39.2	32.3	30.4
Operators, fabricators, and laborers .....	1,820	707	537	264	312	16.9	7.9	37.6	38.9	31.9	31.6
Farming, forestry, and fishing .....	268	124	78	33	33	13.4	5.9	43.5	46.3	25.0	24.4
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	191	93	56	23	19	11.9	5.3	44.0	48.8	23.1	22.1
Construction .....	749	299	240	108	101	14.3	7.6	38.3	39.9	28.1	28.0
Manufacturing .....	1,310	484	377	200	249	18.3	8.6	35.1	36.9	35.0	34.3
Durable goods .....	753	259	221	114	159	19.5	9.3	32.2	34.4	38.7	36.3
Nondurable goods .....	557	225	156	86	90	16.6	7.6	39.2	40.4	29.7	31.6
Transportation and public utilities .....	322	126	97	46	52	15.9	7.6	38.4	39.1	32.2	30.7
Wholesale and retail trade .....	1,593	728	478	197	189	13.2	5.9	44.1	45.7	24.7	24.3
Finance and service industries .....	1,838	834	546	218	239	13.7	6.1	43.3	45.4	25.3	24.9
Public administration .....	225	83	63	36	43	17.9	8.7	36.9	37.0	31.0	35.1
No previous work experience .....	921	494	264	80	84	11.2	4.7	51.7	53.6	18.2	17.8

<sup>1</sup> 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	1987								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	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 .....	7,425	6,322	22.7	6.7	75.0	35.7	17.3	4.8	1.62
16 to 19 years .....	1,347	1,275	13.1	2.9	82.0	25.6	14.2	3.2	1.41
20 to 24 years .....	1,453	1,267	22.7	6.1	75.1	36.2	16.1	3.8	1.60
25 to 34 years .....	2,129	1,769	25.8	7.8	74.0	39.7	17.8	4.6	1.70
35 to 44 years .....	1,281	1,050	27.7	8.8	72.4	38.9	19.5	6.2	1.73
45 to 54 years .....	723	569	26.4	9.1	72.9	38.7	19.0	5.6	1.72
55 to 64 years .....	412	327	23.5	8.3	66.1	36.1	21.1	9.2	1.64
65 years and over .....	78	65	12.3	6.2	64.6	35.4	16.9	6.2	1.42
Men, 16 years and over .....	4,101	3,369	24.4	6.8	76.2	34.1	19.6	5.5	1.67
16 to 19 years .....	732	685	14.5	2.8	82.6	25.1	15.9	2.6	1.44
20 to 24 years .....	779	653	24.0	5.5	77.2	34.8	19.0	4.0	1.64
25 to 34 years .....	1,169	929	28.1	7.8	75.3	38.6	20.6	5.3	1.76
35 to 44 years .....	689	538	30.5	9.5	73.2	37.0	22.1	7.6	1.80
45 to 54 years .....	426	323	27.6	10.2	74.3	35.3	21.4	7.4	1.76
55 to 64 years .....	258	199	23.6	7.5	66.8	33.7	22.1	12.6	1.66
65 years and over .....	49	40	10.0	5.0	70.0	30.0	17.5	5.0	1.37
Women, 16 years and over .....	3,324	2,954	20.8	6.7	73.6	37.5	14.6	4.0	1.57
16 to 19 years .....	616	590	11.5	3.1	81.4	25.9	12.2	3.9	1.38
20 to 24 years .....	674	613	21.2	6.5	73.1	37.8	13.1	3.6	1.55
25 to 34 years .....	960	840	23.2	7.9	72.5	41.0	14.6	3.9	1.63
35 to 44 years .....	592	512	24.8	8.0	71.5	40.8	16.6	4.7	1.66
45 to 54 years .....	298	246	24.8	7.7	71.1	43.1	15.9	3.3	1.66
55 to 64 years .....	155	128	23.4	9.4	64.8	40.6	20.3	4.7	1.63
65 years and over .....	30	25	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	5,501	4,583	21.7	7.0	75.1	37.5	17.2	5.1	1.64
Men .....	3,132	2,512	23.6	7.0	76.4	35.5	19.5	6.0	1.68
Women .....	2,369	2,070	19.5	6.9	73.5	39.9	14.4	4.1	1.58
Black, 16 years and over .....	1,684	1,527	25.5	6.2	75.4	30.5	16.6	3.5	1.58
Men .....	826	730	27.3	5.9	76.8	29.2	19.2	3.6	1.62
Women .....	858	797	24.1	6.4	74.2	31.7	14.3	3.5	1.54

<sup>1</sup> 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	1987								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 .....	7,425	6,322	22.7	6.7	75.0	35.7	17.3	4.8	1.62
Job losers <sup>1</sup> .....	3,566	2,620	28.9	8.0	76.3	37.3	20.2	4.8	1.75
Job leavers .....	965	966	21.6	8.5	74.2	43.2	15.8	3.9	1.67
Reentrants .....	1,974	1,832	19.1	5.9	71.9	34.8	14.9	5.9	1.53
New entrants .....	920	904	13.2	2.9	78.4	24.9	15.4	3.3	1.38
Men, 16 years and over .....	4,101	3,369	24.4	6.8	76.2	34.1	19.6	5.5	1.67
Job losers <sup>1</sup> .....	2,432	1,779	28.8	7.8	77.1	35.3	21.4	5.5	1.76
Job leavers .....	494	492	23.4	7.5	74.8	41.1	17.1	4.3	1.68
Reentrants .....	761	690	20.0	6.1	72.6	32.6	18.4	7.8	1.58
New entrants .....	413	407	13.8	2.9	80.1	23.6	17.7	2.7	1.41
Women, 16 years and over .....	3,324	2,954	20.8	6.7	73.6	37.5	14.6	4.0	1.57
Job losers <sup>1</sup> .....	1,134	841	29.3	8.3	74.4	41.6	17.6	3.3	1.75
Job leavers .....	471	474	19.8	9.5	73.6	45.4	14.3	3.6	1.66
Reentrants .....	1,213	1,141	18.5	6.0	71.6	36.1	12.8	4.7	1.50
New entrants .....	506	497	12.9	2.8	77.1	26.2	13.7	3.8	1.36

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

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

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

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

(In thousands)

Industry and age	Total		Men		Women	
	1986	1987	1986	1987	1986	1987
All industries .....	109,597	112,440	60,892	62,107	48,706	50,334
16 to 19 years .....	6,472	6,640	3,323	3,381	3,149	3,260
16 to 17 years .....	2,622	2,736	1,352	1,393	1,270	1,343
18 to 19 years .....	3,850	3,905	1,971	1,988	1,879	1,917
20 to 24 years .....	13,790	13,524	7,250	7,058	6,540	6,466
25 to 54 years .....	75,011	77,771	41,912	43,136	33,099	34,635
25 to 34 years .....	32,201	33,105	18,092	18,487	14,109	14,617
35 to 44 years .....	25,861	27,179	14,266	14,898	11,595	12,281
45 to 54 years .....	16,949	17,487	9,554	9,750	7,395	7,737
55 to 64 years .....	11,405	11,465	6,654	6,682	4,751	4,783
55 to 59 years .....	6,896	6,949	4,002	4,027	2,894	2,922
60 to 64 years .....	4,509	4,515	2,652	2,655	1,858	1,861
65 years and over .....	2,919	3,041	1,753	1,850	1,165	1,191
Agriculture .....	3,163	3,208	2,511	2,543	652	666
16 to 19 years .....	258	258	219	214	38	44
16 to 17 years .....	133	132	109	110	24	22
18 to 19 years .....	125	126	110	104	15	22
20 to 24 years .....	382	378	322	327	60	51
25 to 54 years .....	1,787	1,820	1,358	1,388	429	432
25 to 34 years .....	763	792	604	627	159	165
35 to 44 years .....	547	566	401	423	146	143
45 to 54 years .....	478	462	354	338	124	124
55 to 64 years .....	447	458	358	359	88	99
55 to 59 years .....	241	238	188	180	53	58
60 to 64 years .....	206	220	171	179	35	41
65 years and over .....	289	295	253	255	37	39
Nonagricultural industries .....	106,434	109,232	58,381	59,564	48,054	49,668
16 to 19 years .....	6,215	6,382	3,104	3,167	3,111	3,216
16 to 17 years .....	2,469	2,603	1,243	1,282	1,246	1,321
18 to 19 years .....	3,726	3,779	1,861	1,884	1,865	1,895
20 to 24 years .....	13,408	13,146	6,928	6,731	6,480	6,414
25 to 54 years .....	73,224	75,952	40,554	41,749	32,671	34,203
25 to 34 years .....	31,438	32,313	17,488	17,860	13,950	14,453
35 to 44 years .....	25,314	26,613	13,865	14,475	11,449	12,138
45 to 54 years .....	16,471	17,025	9,200	9,413	7,271	7,612
55 to 64 years .....	10,958	11,007	6,295	6,323	4,663	4,683
55 to 59 years .....	6,655	6,711	3,814	3,847	2,840	2,864
60 to 64 years .....	4,304	4,295	2,481	2,476	1,822	1,819
65 years and over .....	2,629	2,746	1,500	1,595	1,129	1,152



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**21. Employed civilians by occupation, race, and sex**

(Percent distribution)

Occupation and race	Total		Men		Women	
	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	109,597	112,440	60,892	62,107	48,706	50,334
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	24.2	24.7	24.7	24.9	23.7	24.4
Executive, administrative, and managerial .....	11.5	11.8	13.1	13.3	9.6	10.0
Professional specialty .....	12.7	12.8	11.6	11.6	14.1	14.4
Technical, sales, and administrative support .....	31.3	31.2	19.9	19.9	45.6	45.1
Technicians and related support .....	3.1	3.0	2.9	2.8	3.2	3.2
Sales occupations .....	12.1	12.0	11.3	11.3	13.1	12.8
Administrative support, including clerical .....	16.2	16.2	5.7	5.9	29.3	29.0
Service occupations .....	13.4	13.4	9.5	9.5	18.3	18.1
Private household .....	.9	.8	.1	.1	1.9	1.8
Protective service .....	1.6	1.7	2.6	2.6	.5	.5
Service, except private household and protective .....	10.9	10.9	6.8	6.8	15.9	15.8
Precision production, craft, and repair .....	12.2	12.1	20.1	20.0	2.4	2.3
Operators, fabricators, and laborers .....	15.7	15.6	21.0	20.9	8.9	9.0
Machine operators, assemblers, and inspectors .....	7.2	7.1	7.8	7.6	6.5	6.5
Transportation and material moving occupations .....	4.2	4.2	6.8	7.0	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.3	4.3	6.4	6.4	1.6	1.6
Farming, forestry, and fishing .....	3.1	3.1	4.8	4.8	1.1	1.1
<b>White</b>						
Total, 16 years and over (thousands) .....	95,660	97,789	53,785	54,647	41,876	43,142
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.2	25.7	25.7	25.9	24.6	25.3
Executive, administrative, and managerial .....	12.2	12.5	13.9	14.0	10.0	10.5
Professional specialty .....	13.1	13.2	11.9	11.9	14.6	14.8
Technical, sales, and administrative support .....	31.9	31.6	20.3	20.2	46.7	46.1
Technicians and related support .....	3.1	3.0	3.0	2.8	3.2	3.2
Sales occupations .....	12.7	12.6	11.9	11.9	13.7	13.4
Administrative support, including clerical .....	16.1	16.1	5.4	5.5	29.8	29.5
Service occupations .....	12.2	12.2	8.5	8.5	17.0	16.8
Private household .....	.8	.7	.1	.1	1.6	1.6
Protective service .....	1.6	1.6	2.4	2.5	.4	.5
Service, except private household and protective .....	9.9	9.9	6.0	6.0	14.9	14.8
Precision production, craft, and repair .....	12.6	12.5	20.7	20.6	2.3	2.3
Operators, fabricators, and laborers .....	14.7	14.7	19.8	19.7	8.2	8.2
Machine operators, assemblers, and inspectors .....	6.8	6.6	7.4	7.2	5.9	5.9
Transportation and material moving occupations .....	4.0	4.0	6.5	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.0	4.0	5.9	5.9	1.5	1.5
Farming, forestry, and fishing .....	3.3	3.3	4.9	4.9	1.2	1.2
<b>Black</b>						
Total, 16 years and over (thousands) .....	10,814	11,309	5,428	5,661	5,386	5,648
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	14.7	15.1	12.8	13.1	16.7	17.2
Executive, administrative, and managerial .....	6.1	6.6	6.2	6.7	6.0	6.4
Professional specialty .....	8.7	8.6	6.6	6.4	10.7	10.8
Technical, sales, and administrative support .....	27.0	27.4	15.9	16.2	38.3	38.7
Technicians and related support .....	2.6	2.5	2.0	1.8	3.1	3.2
Sales occupations .....	6.9	7.1	5.2	5.1	8.7	9.1
Administrative support, including clerical .....	17.5	17.8	8.6	9.2	26.5	26.4
Service occupations .....	22.9	23.1	17.6	18.2	28.3	28.0
Private household .....	2.2	1.9	.1	.1	4.3	3.6
Protective service .....	2.5	2.8	4.2	4.5	.8	1.1
Service, except private household and protective .....	18.3	18.5	13.4	13.7	23.2	23.3
Precision production, craft, and repair .....	9.3	8.8	16.0	15.5	2.6	2.0
Operators, fabricators, and laborers .....	23.9	23.5	34.0	33.3	13.7	13.7
Machine operators, assemblers, and inspectors .....	10.8	10.6	11.0	10.8	10.6	10.3
Transportation and material moving occupations .....	5.9	6.2	10.8	11.3	1.0	1.1
Handlers, equipment cleaners, helpers, and laborers .....	7.2	6.8	12.2	11.2	2.1	2.3
Farming, forestry, and fishing .....	2.1	2.0	3.7	3.6	.4	.4

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

(Numbers in thousands)

Occupation	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over .....	112,440	44.8	10.1	6.9
Managerial and professional specialty .....	27,742	44.3	6.2	3.7
Executive, administrative, and managerial .....	13,316	37.9	5.6	3.8
Officials and administrators, public administration .....	474	41.8	9.6	3.9
Financial managers .....	462	43.8	3.9	3.5
Personnel and labor relations managers .....	127	53.0	4.0	3.4
Purchasing managers .....	100	27.8	7.6	3.1
Managers, marketing, advertising, and public relations .....	444	27.4	3.0	2.3
Administrators, education and related fields .....	516	48.5	9.9	3.7
Managers, medicine and health .....	154	59.9	6.9	3.1
Managers, properties and real estate .....	397	43.8	4.6	6.5
Management-related occupations .....	3,577	48.4	7.4	3.7
Accountants and auditors .....	1,255	45.7	7.4	3.5
Underwriters and other financial officers .....	728	49.3	5.8	4.2
Management analysts .....	178	31.3	7.3	1.3
Personnel, training, and labor relations specialists .....	381	57.8	10.4	3.7
Buyers, wholesale and retail trade, except farm products .....	231	49.5	3.3	4.0
Construction inspectors .....	60	4.0	5.1	5.7
Inspectors and compliance officers, except construction .....	183	23.6	14.4	4.6
Professional specialty .....	14,426	50.1	6.7	3.5
Architects .....	135	12.6	2.2	7.2
Engineers .....	1,731	6.9	3.5	2.6
Aerospace engineers .....	104	7.6	5.1	1.5
Chemical engineers .....	63	10.4	3.7	1.3
Civil engineers .....	210	4.1	1.9	4.1
Electrical and electronic engineers .....	545	7.2	3.2	2.4
Industrial engineers .....	221	13.5	3.5	2.6
Mechanical engineers .....	277	4.2	4.5	2.8
Mathematical and computer scientists .....	685	34.1	6.7	2.5
Computer systems analysts and scientists .....	447	32.1	6.9	2.2
Operations and systems researchers and analysts .....	197	37.7	6.2	3.8
Natural scientists .....	388	24.1	2.4	2.7
Chemists, except biochemists .....	120	21.7	2.7	2.5
Biological and life scientists .....	71	38.4	1.3	2.1
Health diagnosing occupations .....	793	16.5	3.0	4.5
Physicians .....	514	19.5	3.7	5.5
Dentists .....	160	8.9	2.1	3.3
Health assessment and treating occupations .....	2,148	86.3	7.7	2.9
Registered nurses .....	1,586	95.1	7.7	2.6
Pharmacists .....	153	31.1	3.0	1.9
Dietitians .....	63	90.1	29.5	5.5
Therapists .....	285	76.3	6.5	3.5
Inhalation therapists .....	60	63.0	9.0	8.9
Physical therapists .....	75	74.5	6.1	4.0
Speech therapists .....	73	90.9	2.8	-
Teachers, college and university .....	661	37.1	4.8	3.1
Teachers, except college and university .....	3,587	73.6	9.4	3.9
Prekindergarten and kindergarten .....	389	98.4	13.7	5.1
Elementary school .....	1,329	65.3	10.0	4.0
Secondary school .....	1,172	54.3	8.2	3.7
Special education .....	218	83.5	10.5	1.8
Teachers, n.e.c. .....	480	64.2	7.1	4.1
Counselors, educational and vocational .....	191	59.5	14.0	5.2
Librarians, archivists, and curators .....	219	81.8	6.8	2.6
Librarians .....	198	85.6	7.0	1.9
Social scientists and urban planners .....	316	48.7	5.8	2.7
Economists .....	113	40.8	1.6	2.3
Psychologists .....	171	54.6	8.9	2.8
Social, recreation, and religious workers .....	980	46.6	12.5	5.6
Social workers .....	507	65.6	18.1	7.0
Recreation workers .....	81	69.3	13.7	4.5
Clergy .....	312	6.9	5.7	3.7
Religious workers, n.e.c. .....	82	57.9	2.4	5.7
Lawyers and judges .....	707	19.7	3.4	2.0
Lawyers .....	672	19.6	3.0	1.7
Writers, artists, entertainers, and athletes .....	1,858	45.9	4.7	3.9
Authors .....	85	50.7	.8	1.7
Technical writers .....	51	44.4	5.7	1.5
Designers .....	531	52.0	2.8	4.8
Musicians and composers .....	169	31.4	8.8	4.3
Actors and directors .....	88	36.0	3.0	2.6
Painters, sculptors, craft-artists, and artist printmakers .....	191	53.9	5.8	3.3
Photographers .....	126	31.1	6.8	3.1
Editors and reporters .....	267	50.4	4.1	2.6
Public relations specialists .....	142	56.6	5.9	4.7
Announcers .....	59	13.3	6.3	5.4
Athletes .....	69	22.6	8.9	6.4

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	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Technical, sales, and administrative support .....	35,082	64.7	8.8	5.6
Technicians and related support .....	3,346	46.6	8.5	3.9
Health technologists and technicians .....	1,142	84.3	13.8	3.5
Clinical laboratory technologists and technicians .....	259	78.9	13.8	3.1
Dental hygienists .....	74	97.3	1.7	2.8
Radiologic technicians .....	127	70.6	8.5	2.7
Licensed practical nurses .....	406	97.0	18.3	2.7
Engineering and related technologists and technicians .....	896	17.1	4.9	5.4
Electrical and electronic technicians .....	305	14.3	5.9	4.7
Drafting occupations .....	283	15.8	5.0	7.9
Surveying and mapping technicians .....	81	6.6	1.8	4.0
Science technicians .....	204	31.5	7.5	3.0
Biological technicians .....	59	42.8	4.1	2.4
Chemical technicians .....	73	25.1	11.3	3.3
Technicians, except health, engineering, and science .....	1,104	40.2	6.0	3.2
Airplane pilots and navigators .....	78	2.2	2.6	.9
Computer programmers .....	527	36.6	5.6	2.7
Legal assistants .....	189	79.0	6.4	5.3
Sales occupations .....	13,480	48.0	6.0	5.3
Supervisors and proprietors .....	3,572	31.8	4.3	4.4
Sales representatives, finance and business services .....	2,330	40.1	3.5	3.4
Insurance sales .....	544	27.4	5.0	4.4
Real estate sales .....	778	48.7	2.3	2.9
Securities and financial services sales .....	319	24.7	1.9	2.3
Advertising and related sales .....	148	49.3	4.9	4.4
Sales occupations, other business services .....	542	47.2	4.3	3.6
Sales representatives, commodities, except retail .....	1,544	17.1	2.5	4.2
Sales workers, retail and personal services .....	5,973	68.5	8.9	6.8
Sales workers, motor vehicles and boats .....	304	9.3	4.9	4.8
Sales workers, apparel .....	450	83.3	8.6	7.6
Sales workers, shoes .....	120	64.5	11.7	8.9
Sales workers, furniture and home furnishings .....	167	48.8	3.1	7.5
Sales workers, radio, television, hi-fi, and appliances .....	187	33.1	8.7	5.4
Sales workers, hardware and building supplies .....	209	23.2	3.0	5.6
Sales workers, parts .....	157	8.4	4.7	7.1
Sales workers, other commodities .....	1,514	73.1	8.7	5.5
Sales counter clerks .....	174	73.3	7.8	5.9
Cashiers .....	2,286	83.0	12.8	8.0
Street and door-to-door sales workers .....	303	76.9	5.3	7.1
News vendors .....	100	32.2	4.6	4.9
Sales-related occupations .....	60	67.8	2.3	4.0
Administrative support, including clerical .....	18,256	80.0	11.0	6.2
Supervisors .....	723	56.9	11.3	5.2
General office .....	439	66.3	11.1	5.5
Financial records processing .....	79	73.0	4.8	4.5
Supervisors, distribution, scheduling, and adjusting clerks .....	159	26.0	16.8	5.2
Computer equipment operators .....	914	68.0	14.1	8.2
Computer operators .....	911	66.0	14.1	8.1
Secretaries, stenographers, and typists .....	5,004	98.1	8.4	5.2
Secretaries .....	4,107	99.1	6.8	4.6
Stenographers .....	54	65.0	8.0	2.1
Typists .....	843	94.6	16.5	7.3
Information clerks .....	1,371	90.0	8.8	7.8
Interviewers .....	157	67.4	9.3	9.4
Hotel clerks .....	90	72.2	5.5	6.7
Transportation ticket and reservation agents .....	111	63.6	13.6	8.7
Receptionists .....	766	97.5	7.6	7.1
Records processing occupations, except financial .....	844	80.9	15.6	6.7
Order clerks .....	189	76.6	12.6	5.1
Personnel clerks, except payroll and timekeeping .....	70	84.6	15.3	9.1
Library clerks .....	146	77.0	13.5	6.6
File clerks .....	281	82.5	20.4	7.2
Records clerks .....	135	84.5	13.9	7.7
Financial records processing .....	2,469	90.9	6.0	4.7
Bookkeepers, accounting, and auditing clerks .....	2,004	92.4	4.7	4.7
Payroll and timekeeping clerks .....	177	84.9	10.3	4.0
Billing clerks .....	171	89.0	10.4	5.7
Cost and rate clerks .....	84	73.6	17.4	5.0
Duplicating, mail and other office machine operators .....	69	84.7	20.3	5.6
Communications equipment operators .....	225	91.8	19.9	6.1
Telephone operators .....	218	92.2	19.5	6.2
Mail and message distributing occupations .....	961	34.7	19.6	7.7
Postal clerks, except mail carriers .....	315	44.0	27.7	7.2
Mail carriers, postal service .....	321	21.3	12.3	7.1
Mail clerks, except postal service .....	172	50.9	21.1	9.6
Messengers .....	153	25.6	17.8	8.1

See footnotes at end of table.

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

(Numbers in thousands)

Occupation	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Material recording, scheduling, and distributing clerks .....	1,709	39.9	13.3	8.1
Dispatchers .....	197	45.7	7.3	5.2
Production coordinators .....	192	48.6	7.4	5.4
Traffic, shipping, and receiving clerks .....	483	29.9	13.3	10.8
Stock and inventory clerks .....	580	39.0	17.1	8.4
Weighers, measurers, and checkers .....	72	49.0	17.2	6.9
Expeditors .....	109	61.0	10.0	6.1
Adjusters and investigators .....	897	73.0	12.0	5.5
Insurance adjusters, examiners, and investigators .....	257	71.1	12.8	4.8
Investigators and adjusters, except insurance .....	442	74.0	11.3	5.5
Eligibility clerks, social welfare .....	67	88.4	11.5	7.9
Bill and account collectors .....	131	85.8	12.7	5.7
Miscellaneous administrative support .....	3,071	84.9	12.7	6.9
General office clerks .....	803	82.9	11.3	7.5
Bank tellers .....	467	90.6	7.9	8.1
Data entry keyers .....	361	87.2	19.4	8.5
Statistical clerks .....	98	74.2	10.2	6.7
Teachers' aides .....	390	95.1	15.0	9.9
<b>Service occupations .....</b>	<b>15,054</b>	<b>60.6</b>	<b>17.4</b>	<b>9.1</b>
Private household .....	934	96.3	22.8	12.8
Child care workers .....	405	96.9	8.0	8.4
Cleaners and servants .....	472	96.0	34.4	18.0
Protective service .....	1,907	14.2	16.8	5.6
Supervisors, protective service .....	181	6.4	10.1	3.5
Supervisors, police and detectives .....	83	7.3	9.2	2.2
Firefighting and fire prevention .....	221	2.0	7.4	5.3
Firefighting occupations .....	204	.9	7.7	5.3
Police and detectives .....	717	11.4	15.1	5.2
Police and detectives, public service .....	438	9.2	13.2	6.2
Sheriffs, bailiffs, and other law enforcement officers .....	104	14.0	12.0	3.9
Correctional institution officers .....	175	15.5	21.5	3.5
Guards .....	809	21.5	21.7	6.9
Guards and police, except public service .....	689	14.3	23.4	7.3
<b>Service occupations, except private household and protective service .....</b>	<b>12,213</b>	<b>65.2</b>	<b>17.1</b>	<b>9.3</b>
Food preparation and service occupations .....	5,204	62.4	12.7	9.1
Supervisors .....	301	96.6	9.0	4.9
Bartenders .....	328	49.9	2.3	5.7
Waiters and waitresses .....	1,383	85.1	5.1	5.7
Cooks, except short order .....	1,627	50.1	18.4	9.6
Short-order cooks .....	93	34.5	20.6	6.0
Food counter, fountain, and related occupations .....	359	77.7	13.7	6.7
Kitchen workers, food preparation .....	130	76.0	20.1	10.4
Waiters' and waitresses' assistants .....	325	37.8	15.8	17.6
Miscellaneous food preparation .....	660	54.3	16.8	15.4
Health service occupations .....	1,873	89.6	25.5	7.0
Dental assistants .....	169	98.0	5.8	10.3
Health aides, except nursing .....	360	84.0	15.8	6.9
Nursing aides, orderlies, and attendants .....	1,324	90.4	30.8	6.8
Cleaning and building service occupations .....	2,886	41.7	24.2	12.9
Supervisors .....	161	33.9	23.4	9.7
Maids and housemen .....	802	84.8	30.0	14.8
Janitors and cleaners .....	2,059	30.8	22.8	12.7
Personal service occupations .....	2,249	81.3	11.2	7.2
Barbers .....	90	17.9	8.1	8.3
Hairdressers and cosmetologists .....	743	69.3	7.5	6.4
Attendants, amusement and recreation facilities .....	128	43.2	7.1	4.9
Public transportation attendants .....	76	84.5	9.4	5.1
Welfare service aides .....	104	90.5	24.6	13.3
Child care workers .....	827	96.0	12.5	7.1
<b>Precision production, craft, and repair .....</b>	<b>13,568</b>	<b>8.5</b>	<b>7.3</b>	<b>8.0</b>
Mechanics and repairers .....	4,445	3.4	7.3	7.0
Supervisors .....	259	9.0	6.3	2.4
Mechanics and repairers, except supervisors .....	4,186	3.0	7.3	7.3
Vehicle and mobile equipment mechanics and repairers .....	1,779	1.0	7.1	6.7
Automobile mechanics .....	871	.6	7.4	9.3
Bus, truck, and stationery engine mechanics .....	329	.5	6.8	7.5
Aircraft engine mechanics .....	117	3.9	12.0	6.6
Small engine repairers .....	70	.9	2.6	7.2
Automobile body and related repairers .....	184	1.5	6.5	8.5
Heavy equipment mechanics .....	157	.5	5.7	8.3
Industrial machinery repairers .....	542	2.0	7.5	6.6
Electrical and electronic equipment repairers .....	685	8.5	7.4	5.6
Electronic repairers, communications, and industrial equipment .....	171	5.1	7.2	7.5
Data processing equipment repairers .....	134	12.6	7.6	3.4
Telephone line installers and repairers .....	57	7.7	6.0	4.3
Telephone installers and repairers .....	215	11.7	6.0	5.5
Heating, air conditioning, and refrigeration mechanics .....	264	.8	6.4	6.8
Miscellaneous mechanics and repairers .....	680	4.3	7.7	6.4
Office machine repairers .....	64	2.9	7.0	5.0
Millwrights .....	96	2.1	2.9	2.4

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	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Construction trades .....	5,011	1.9	7.1	7.7
Supervisors .....	630	1.5	4.7	4.3
Construction trades, except supervisors .....	4,382	2.0	7.4	8.2
Brickmasons and stonemasons .....	193	1.2	12.6	8.8
Carpet installers .....	100	.9	11.0	8.8
Carpenters .....	1,388	1.2	5.0	7.7
Drywall installers .....	148	1.8	4.2	12.5
Electricians .....	650	1.3	6.0	5.5
Electrical power installers and repairers .....	111	.6	4.7	3.0
Painters, construction and maintenance .....	525	5.6	8.2	11.6
Plumbers, pipefitters, and steamfitters .....	491	.8	7.5	7.3
Concrete and terrazzo finishers .....	75	.2	28.7	20.4
Insulation workers .....	53	2.6	11.4	5.8
Roofers .....	171	.6	10.4	9.8
Structural metal workers .....	58	.2	4.6	7.2
Extractive occupations .....	161	3.3	3.7	9.1
Precision production occupations .....	3,951	22.8	7.9	9.4
Supervisors .....	1,317	14.9	7.7	6.8
Precision metalworking .....	891	6.2	5.0	6.9
Tool and die makers .....	144	1.8	3.8	3.2
Machinists .....	483	3.5	5.4	8.9
Sheet-metal workers .....	127	6.4	5.8	5.7
Precision woodworking occupations .....	102	12.2	8.4	8.7
Cabinet makers and bench carpenters .....	56	2.5	5.5	9.8
Precision textile, apparel, and furnishings machine workers .....	299	55.4	8.1	16.1
Dressmakers .....	121	92.6	7.0	15.9
Upholsterers .....	87	26.4	6.8	14.3
Precision workers, assorted materials .....	536	55.6	8.6	13.2
Optical goods workers .....	50	54.2	4.2	8.2
Dental laboratory and medical appliance technicians .....	60	34.0	6.6	7.2
Electrical and electronic equipment assemblers .....	325	68.9	10.1	16.3
Precision food production occupations .....	438	30.7	12.6	15.0
Butchers and meat cutters .....	271	19.7	15.0	16.2
Bakers .....	123	43.6	9.8	11.1
Precision inspectors, testers, and related workers .....	116	25.6	10.2	8.0
Inspectors, testers, and graders .....	103	23.0	11.3	8.2
Plant and system operators .....	252	4.2	8.1	6.2
Stationary engineers .....	108	3.0	8.2	5.8
Operators, fabricators, and laborers .....	17,486	25.8	15.2	10.8
Machine operators, assemblers, and inspectors .....	7,994	41.2	14.9	12.5
Machine operators and tenders, except precision .....	5,257	42.6	16.0	13.3
Metalworking and plastic working machine operators .....	472	19.8	13.3	8.4
Lathe and turning machine operators .....	60	11.5	4.2	4.1
Punching and stamping press machine operators .....	145	32.5	16.5	5.7
Grinding, abrading, buffing, and polishing machine operators .....	144	14.5	14.8	13.2
Metal and plastic processing machine operators .....	157	22.8	12.9	11.3
Molding and casing machine operators .....	96	30.9	11.8	11.8
Woodworking machine operators .....	153	14.8	12.6	7.5
Sawing machine operators .....	100	11.4	11.7	7.3
Printing machine operators .....	476	26.9	7.3	7.3
Printing machine operators .....	321	14.8	8.1	8.7
Typesetters and compositors .....	76	71.7	3.7	3.8
Textile, apparel, and furnishings machine operators .....	1,334	79.0	22.1	17.5
Winding and twisting machine operators .....	80	72.0	34.4	3.9
Textile sewing machine operators .....	755	91.0	18.2	21.6
Pressing machine operators .....	138	64.3	33.0	20.2
Laundering and dry cleaning machine operators .....	195	64.3	23.5	12.4
Machine operators, assorted materials .....	2,634	33.9	15.4	13.6
Packaging and filling machine operators .....	403	61.9	19.1	19.9
Mixing and blending machine operators .....	96	9.3	12.2	14.7
Separating, filtering, and clarifying machine operators .....	53	9.4	15.1	4.1
Painting and paint spraying machine operators .....	185	12.5	11.5	15.4
Furnace, kiln, and oven operators, except food .....	95	7.9	14.8	8.2
Slicing and cutting machine operators .....	218	26.9	12.3	17.6
Photographic process machine operators .....	100	54.5	7.8	9.2
Fabricators, assemblers, and hand working occupations .....	1,877	32.9	12.2	11.8
Welders and cutters .....	558	4.8	10.7	10.7
Assemblers .....	1,105	43.9	13.6	12.0
Production inspectors, testers, samplers, and weighers .....	861	51.0	14.5	9.3
Production inspectors, checkers, and examiners .....	894	52.6	14.3	7.9
Production testers .....	60	27.3	6.9	5.4
Graders and sorters, except agricultural .....	96	54.7	21.5	22.1

See footnotes at end of table.



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

(Numbers in thousands)

Occupation	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Transportation and material moving occupations .....	4,712	8.4	14.8	7.6
Motor vehicle operators .....	3,489	10.1	14.8	7.9
Truck drivers, heavy .....	1,822	2.2	13.3	7.2
Truck drivers, light .....	721	9.0	13.2	11.0
Drivers-sales workers .....	226	6.7	5.0	6.1
Bus drivers .....	419	47.5	25.5	5.2
Taxi-cab drivers and chauffeurs .....	194	10.7	21.5	9.9
Transportation occupations, except motor vehicles .....	194	1.9	8.1	3.4
Rail transportation occupations .....	136	1.4	10.3	3.3
Locomotive operating occupations .....	53	1.0	10.5	5.1
Water transportation occupations .....	58	3.0	3.1	3.8
Material moving equipment operators .....	1,029	3.8	16.1	7.7
Operating engineers .....	184	.8	7.9	6.1
Crane and tower operators .....	81	2.5	17.1	4.8
Excavating and loading machine operators .....	115	.5	8.2	7.5
Grader, dozer, and scraper operators .....	92	.7	11.4	1.3
Industrial truck and tractor equipment operators .....	428	5.0	24.0	9.3
Handlers, equipment cleaners, helpers, and laborers .....	4,779	17.1	16.0	11.1
Helpers, construction and extractive occupations .....	170	5.2	14.3	13.3
Helpers, construction trades .....	156	5.0	14.3	13.1
Construction laborers .....	766	3.2	16.1	13.9
Production helpers .....	71	21.5	14.5	20.1
Freight, stock, and material handlers .....	1,696	16.9	15.9	8.1
Stock handlers and baggers .....	873	22.9	11.4	6.9
Machine feeders and offbearers .....	94	35.8	26.0	8.5
Garage and service station related occupations .....	257	7.1	10.5	8.7
Vehicle washers and equipment cleaners .....	214	15.4	20.0	12.3
Hand packers and packagers .....	306	64.8	13.7	15.7
Laborers, except construction .....	1,251	18.3	17.5	11.6
Farming, forestry, and fishing .....	3,507	15.8	6.5	13.2
Farm operators and managers .....	1,317	14.9	1.4	1.5
Farmers .....	1,173	15.1	1.4	1.3
Farm managers .....	144	13.6	1.4	2.8
Other agricultural and related occupations .....	2,013	17.1	9.6	21.6
Farm occupations, except managerial .....	1,035	22.4	8.7	24.4
Farm workers .....	968	21.7	8.6	24.2
Related agricultural occupations .....	978	11.5	10.5	18.6
Supervisors .....	72	4.6	5.5	8.4
Groundskeepers and gardeners, except farm .....	803	5.5	11.7	20.5
Animal caretakers, except farm .....	90	62.1	3.9	6.2
Forestry and logging occupations .....	104	5.9	17.1	2.6
Timber cutting and logging .....	72	1.1	21.0	1.8
Fishers, hunters, and trappers .....	73	9.1	1.0	6.3

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.

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(In thousands)

Age and sex	1987								
	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 .....	100,771	1,208	16,800	82,762	8,201	260	1,632	1,423	153
16 to 19 years .....	6,300	264	350	5,687	69	13	201	25	32
16 to 17 years .....	2,567	185	117	2,265	30	7	99	15	18
18 to 19 years .....	3,734	79	233	3,422	39	6	102	10	14
20 to 24 years .....	12,801	127	1,158	11,517	322	22	304	61	13
25 to 34 years .....	30,287	185	4,388	25,714	1,976	50	504	262	26
35 to 44 years .....	24,141	189	5,140	18,811	2,404	69	264	280	22
45 to 54 years .....	15,324	162	3,355	11,808	1,644	57	178	264	20
55 to 64 years .....	9,743	166	2,029	7,548	1,229	34	121	311	26
55 to 59 years .....	5,969	96	1,283	4,590	724	18	73	151	14
60 to 64 years .....	3,775	70	746	2,959	505	15	49	160	12
65 years and over .....	2,174	117	380	1,677	556	16	60	219	15
<b>Men, 16 years and over .....</b>	<b>54,102</b>	<b>180</b>	<b>8,013</b>	<b>45,909</b>	<b>5,423</b>	<b>39</b>	<b>1,290</b>	<b>1,194</b>	<b>58</b>
16 to 19 years .....	3,118	65	167	2,887	40	8	167	21	25
16 to 17 years .....	1,260	49	59	1,152	19	3	84	13	14
18 to 19 years .....	1,858	16	108	1,735	21	5	83	9	12
20 to 24 years .....	6,512	25	519	5,967	207	12	261	56	10
25 to 34 years .....	16,591	27	2,057	14,507	1,265	5	392	226	9
35 to 44 years .....	12,928	24	2,429	10,475	1,545	2	193	227	3
45 to 54 years .....	8,291	11	1,619	6,662	1,118	4	130	207	1
55 to 64 years .....	5,462	15	1,027	4,420	859	2	95	261	3
55 to 59 years .....	3,345	8	655	2,683	501	1	55	124	1
60 to 64 years .....	2,117	7	372	1,737	358	1	40	137	2
65 years and over .....	1,200	13	195	992	388	6	52	195	8
<b>Women, 16 years and over .....</b>	<b>46,669</b>	<b>1,029</b>	<b>8,788</b>	<b>36,853</b>	<b>2,778</b>	<b>221</b>	<b>342</b>	<b>229</b>	<b>95</b>
16 to 19 years .....	3,182	199	183	2,801	29	5	34	3	7
16 to 17 years .....	1,307	136	57	1,114	11	3	15	2	4
18 to 19 years .....	1,875	63	125	1,687	18	2	19	1	2
20 to 24 years .....	6,289	101	639	5,549	115	10	43	5	3
25 to 34 years .....	13,696	158	2,332	11,207	711	45	112	36	17
35 to 44 years .....	11,212	165	2,711	8,336	859	67	71	53	19
45 to 54 years .....	7,033	150	1,736	5,146	526	53	48	57	19
55 to 64 years .....	4,282	151	1,002	3,129	370	32	27	50	23
55 to 59 years .....	2,623	88	628	1,907	223	17	18	27	13
60 to 64 years .....	1,658	63	373	1,221	147	14	9	23	10
65 years and over .....	974	104	185	686	168	10	8	24	8

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

(In thousands)

Industry and sex	1987					
	Total employed	Wage and salary workers			Self-employed workers	Unpaid family workers
		Total	Government	Private industries		
<b>TOTAL</b>						
Mining .....	818	789	1	788	27	1
Construction .....	7,456	6,045	544	5,501	1,384	27
Manufacturing .....	20,935	20,563	144	20,420	354	17
Durable goods .....	12,478	12,257	117	12,140	213	9
Nondurable goods .....	8,456	8,307	27	8,280	141	9
Transportation and public utilities .....	7,880	7,534	1,589	5,945	335	11
Wholesale and retail trade .....	23,392	21,437	104	21,332	1,841	114
Wholesale trade .....	4,580	4,245	5	4,240	314	21
Retail trade .....	18,812	17,191	99	17,093	1,527	94
Finance, insurance, and real estate .....	7,763	7,151	184	6,967	597	14
Services .....	35,743	32,005	8,988	23,017	3,663	75
Private households .....	1,216	1,208		1,208	8	
Other service industries .....	34,527	30,797	8,988	21,809	3,655	75
Business and repair .....	6,636	5,327	84	5,243	1,273	37
Personal, except private households .....	3,382	2,486	7	2,479	884	12
Entertainment and recreation .....	1,353	1,179	192	987	172	2
Professional .....	22,963	21,675	8,639	13,037	1,266	22
Hospitals .....	4,444	4,440	1,020	3,420	4	
Health services, except hospitals .....	4,034	3,686	406	3,279	340	8
Educational .....	8,349	8,250	6,559	1,692	98	1
Social services .....	2,736	2,494	540	1,954	237	5
Other .....	3,401	2,805	114	2,691	587	8
Forestry and fisheries .....	192	130	66	64	60	2
Public administration .....	5,246	5,246	5,246			
<b>Men</b>						
Mining .....	695	672	1	671	23	
Construction .....	6,793	5,469	497	4,972	1,321	2
Manufacturing .....	14,061	13,805	109	13,695	253	4
Durable goods .....	9,109	8,934	93	8,840	173	2
Nondurable goods .....	4,952	4,871	16	4,855	79	2
Transportation and public utilities .....	5,759	5,460	1,183	4,277	298	1
Wholesale and retail trade .....	12,301	11,179	44	11,135	1,099	23
Wholesale trade .....	3,299	3,032	4	3,028	263	4
Retail trade .....	9,001	8,147	39	8,107	835	19
Finance, insurance, and real estate .....	3,161	2,741	96	2,646	418	2
Services .....	13,720	11,701	3,008	8,693	2,012	7
Private households .....	184	180		180	4	
Other service industries .....	13,536	11,521	3,008	8,513	2,008	7
Business and repair .....	4,060	3,175	55	3,120	882	3
Personal, except private households .....	1,089	876	3	873	211	2
Entertainment and recreation .....	797	681	107	574	116	1
Professional .....	7,437	6,693	2,797	3,896	742	1
Hospitals .....	1,019	1,017	306	712	2	
Health services, except hospitals .....	950	690	100	590	260	
Educational .....	2,820	2,797	2,167	630	23	
Social services .....	846	801	146	655	45	
Other .....	1,801	1,388	78	1,310	413	
Forestry and fisheries .....	153	96	47	50	56	
Public administration .....	3,075	3,075	3,075			
<b>Women</b>						
Mining .....	123	117		117	4	1
Construction .....	664	575	46	529	63	25
Manufacturing .....	6,874	6,759	34	6,724	101	14
Durable goods .....	3,369	3,323	23	3,299	40	6
Nondurable goods .....	3,505	3,436	11	3,425	61	7
Transportation and public utilities .....	2,120	2,073	406	1,668	38	9
Wholesale and retail trade .....	11,091	10,258	61	10,197	742	91
Wholesale trade .....	1,280	1,213	1	1,212	50	17
Retail trade .....	9,811	9,045	59	8,985	692	74
Finance, insurance, and real estate .....	4,602	4,410	89	4,321	179	13
Services .....	22,023	20,305	5,980	14,325	1,651	68
Private households .....	1,032	1,029		1,029	4	
Other service industries .....	20,991	19,276	5,980	13,296	1,647	68
Business and repair .....	2,576	2,152	29	2,123	391	34
Personal, except private households .....	2,293	1,610	4	1,606	673	10
Entertainment and recreation .....	556	498	85	413	56	1
Professional .....	15,527	14,982	5,842	9,140	523	21
Hospitals .....	3,425	3,422	714	2,708	2	
Health services, except hospitals .....	3,084	2,996	306	2,690	80	8
Educational .....	5,529	5,454	4,392	1,062	75	
Social services .....	1,890	1,693	394	1,299	192	5
Other .....	1,600	1,418	36	1,381	175	8
Forestry and fisheries .....	39	34	20	14	4	1
Public administration .....	2,171	2,171	2,171			

**HOUSEHOLD DATA  
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**25. Employed civilians by industry, sex, and occupation**

(In thousands)

Industry and sex	1987												
	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 <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
<b>TOTAL</b>													
Agriculture .....	3,208	70	65	25	21	98		16	38	11	45	20	2,800
Mining .....	818	128	85	30	13	91		7	258	21	141	42	2
Construction .....	7,456	926	131	56	71	458		33	4,279	95	511	877	20
Manufacturing .....	20,935	2,315	1,688	698	704	2,470		360	3,990	6,640	806	1,182	81
Durable goods .....	12,478	1,421	1,166	496	292	1,410		196	2,785	3,663	422	556	72
Nondurable goods .....	8,456	894	522	202	412	1,060		164	1,205	2,978	384	626	9
Transportation and public utilities .....	7,880	861	455	252	302	2,154		266	1,267	118	1,719	472	13
Wholesale and retail trade .....	23,392	1,934	412	100	9,669	2,398		4,321	1,540	308	937	1,729	43
Wholesale trade .....	4,580	492	77	40	1,774	833		40	343	140	482	340	17
Retail trade .....	18,812	1,442	335	60	7,895	1,565		4,281	1,197	168	455	1,389	25
Finance, insurance, and real estate .....	7,763	1,903	184	138	1,859	3,128	-	281	144	21	12	25	67
Services .....	35,743	4,082	10,695	1,834	817	6,002	934	7,541	1,805	741	486	379	426
Private households .....	1,216	5	9	6	2	9	934	104	11	1	9	20	105
Other service industries .....	34,527	4,076	10,685	1,828	815	5,994	-	7,437	1,794	739	477	359	322
Professional services .....	22,963	2,269	9,511	1,504	136	4,312	-	4,197	395	178	276	97	88
Public administration .....	5,246	1,099	711	212	24	1,457	-	1,295	246	40	54	52	55
<b>Men</b>													
Agriculture .....	2,543	49	48	10	12	6		10	37	9	42	13	2,307
Mining .....	695	106	72	24	12	20		7	252	20	140	39	2
Construction .....	6,793	815	120	52	57	57		22	4,205	92	507	847	18
Manufacturing .....	14,061	1,758	1,338	534	506	728		286	3,365	3,850	762	858	78
Durable goods .....	9,109	1,094	1,002	395	235	443		161	2,357	2,503	404	445	71
Nondurable goods .....	4,952	664	336	139	271	285		125	1,008	1,346	358	413	7
Transportation and public utilities .....	5,759	616	366	207	128	928		157	1,198	105	1,599	445	12
Wholesale and retail trade .....	12,301	1,138	194	55	4,792	465		1,819	1,358	182	885	1,380	32
Wholesale trade .....	3,299	331	52	29	1,499	169		30	328	95	470	282	14
Retail trade .....	9,001	808	142	25	3,293	296		1,788	1,030	88	416	1,098	18
Finance, insurance, and real estate .....	3,161	952	103	63	1,164	434	-	198	136	14	11	23	63
Services .....	13,720	2,175	4,491	643	333	689	34	2,308	1,630	394	321	309	390
Private households .....	184	4	1	1	1	2	34	6	10	1	6	19	98
Other service industries .....	13,536	2,171	4,490	643	332	688	-	2,302	1,620	394	315	290	292
Professional services .....	7,437	1,038	3,801	425	36	371	-	1,066	344	76	130	72	78
Public administration .....	3,075	654	463	133	9	317	-	1,084	234	34	50	47	51
<b>Women</b>													
Agriculture .....	666	20	17	14	9	92		6	1	2	3	7	493
Mining .....	123	21	12	6	1	71		1	6		1	3	-
Construction .....	664	110	11	4	13	402		11	74	3	4	30	1
Manufacturing .....	6,874	557	350	164	198	1,742		74	625	2,791	44	324	3
Durable goods .....	3,369	327	164	101	57	967		36	428	1,159	18	111	1
Nondurable goods .....	3,505	230	186	63	141	776		38	197	1,631	26	213	2
Transportation and public utilities .....	2,120	245	89	45	174	1,226		108	70	13	121	27	1
Wholesale and retail trade .....	11,091	796	218	45	4,877	1,933		2,503	183	126	52	349	11
Wholesale trade .....	1,280	161	24	11	275	663		10	15	46	13	58	3
Retail trade .....	9,811	635	194	34	4,602	1,270		2,493	167	80	39	290	7
Finance, insurance, and real estate .....	4,602	950	82	75	695	2,694	-	83	8	7	1	2	4
Services .....	22,023	1,907	6,204	1,191	484	5,313	900	5,233	175	346	165	70	37
Private households .....	1,032	2	8	6	1	7	900	98	-	1	3	2	7
Other service industries .....	20,991	1,905	6,196	1,185	483	5,306	-	5,135	174	346	163	69	30
Professional services .....	15,527	1,232	5,710	1,080	100	3,941	-	3,131	51	101	146	25	10
Public administration .....	2,171	446	248	79	15	1,140	-	211	12	7	5	5	4

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

26. Employed civilians by industry, race, and occupation

(In thousands)

Industry and race	1987												
	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 <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
<b>WHITE</b>													
Agriculture .....	2,986	66	61	24	21	97		15	35	8	39	17	2,605
Mining .....	766	119	77	27	13	82		7	248	18	134	38	2
Construction .....	6,805	883	118	50	67	433		26	3,952	86	450	723	16
Manufacturing .....	18,107	2,192	1,538	625	671	2,190		286	3,550	5,401	650	942	63
Durable goods .....	10,980	1,349	1,056	444	281	1,269		163	2,509	3,060	335	458	55
Nondurable goods .....	7,127	843	482	180	390	921		123	1,041	2,340	315	483	7
Transportation and public utilities .....	6,622	776	412	224	279	1,733		197	1,116	95	1,427	352	11
Wholesale and retail trade .....	20,741	1,760	387	89	8,739	2,157		3,630	1,399	263	797	1,481	38
Wholesale trade .....	4,179	464	69	34	1,675	760		34	312	116	414	286	16
Retail trade .....	16,562	1,296	318	55	7,064	1,397		3,597	1,087	146	383	1,196	22
Finance, insurance, and real estate .....	6,932	1,751	170	126	1,755	2,691	-	220	123	13	8	19	56
Services .....	30,518	3,721	9,545	1,572	736	5,200	703	5,758	1,627	586	389	302	377
Private households .....	921	3	7	5	1	8	703	72	9	1	7	18	87
Other service industries .....	29,597	3,718	9,538	1,567	735	5,193	-	5,687	1,618	585	382	284	290
Professional services .....	19,581	2,041	8,458	1,278	120	3,725		3,102	346	141	213	80	77
Public administration .....	4,311	931	598	179	14	1,156		1,072	212	28	38	35	47
<b>BLACK</b>													
Agriculture .....	164	1	3	1					3	3	4	3	146
Mining .....	31	4	2	2	-	6			7		6	3	
Construction .....	533	28	5	4	3	18		6	266	8	55	138	3
Manufacturing .....	2,154	63	54	35	25	230		67	315	985	148	215	17
Durable goods .....	1,088	34	37	19	7	112		31	179	484	82	87	15
Nondurable goods .....	1,066	29	17	16	18	118		35	136	501	66	129	2
Transportation and public utilities .....	1,051	54	28	22	19	352		59	125	19	261	110	2
Wholesale and retail trade .....	1,864	99	11	5	626	175		482	102	34	119	207	4
Wholesale trade .....	264	15	2	3	44	48		6	21	18	61	44	1
Retail trade .....	1,600	83	9	1	582	127		477	81	16	58	163	3
Finance, insurance, and real estate .....	611	95	11	6	69	338	-	51	19	6	3	5	9
Services .....	4,133	263	773	184	56	644	211	1,540	134	129	90	69	42
Private households .....	266	-	2	1	-	1	211	29	1	-	2	2	16
Other service industries .....	3,867	262	771	183	56	643	-	1,510	133	129	88	66	26
Professional services .....	-	180	710	164	14	476		978	40	32	60	15	11
Public administration .....	767	134	85	25	8	247		197	25	11	14	15	6

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

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

(In thousands)

Sex, age, and race	1987									
	Mining	Construction	Manufacturing			Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Services <sup>1</sup>	Public administration
			Total	Durable goods	Non-durable goods					
<b>TOTAL</b>										
Total, 16 years and over .....	818	7,456	20,935	12,478	8,456	7,880	23,392	7,763	34,527	5,246
16 to 19 years .....	10	317	496	241	255	135	3,418	220	1,446	77
20 years and over .....	808	7,139	20,439	12,237	8,202	7,745	19,974	7,543	33,081	5,170
20 to 24 years .....	47	1,008	2,158	1,224	934	678	3,932	1,063	3,782	350
25 years and over .....	761	6,131	18,281	11,013	7,268	7,067	16,042	6,480	29,299	4,820
25 to 54 years .....	678	5,323	15,600	9,412	6,189	6,140	13,436	5,463	24,670	4,103
55 years and over .....	83	809	2,681	1,601	1,080	926	2,606	1,017	4,629	717
<b>Men, 16 years and over</b> .....	695	6,793	14,061	9,109	4,952	5,759	12,301	3,161	13,536	3,075
16 to 19 years .....	8	290	322	170	152	89	1,665	60	636	32
20 years and over .....	687	6,503	13,739	8,939	4,800	5,670	10,636	3,101	12,900	3,043
20 to 24 years .....	40	930	1,383	862	521	450	1,976	299	1,454	175
25 years and over .....	647	5,573	12,356	8,077	4,279	5,220	8,660	2,802	11,446	2,868
25 to 54 years .....	572	4,831	10,498	6,867	3,631	4,482	7,269	2,238	9,355	2,438
55 years and over .....	74	742	1,858	1,209	649	738	1,392	564	2,092	431
<b>Women, 16 years and over</b> .....	123	664	6,874	3,369	3,505	2,120	11,091	4,602	20,991	2,171
16 to 19 years .....	2	27	174	71	103	45	1,753	160	811	44
20 years and over .....	121	636	6,700	3,298	3,402	2,075	9,338	4,442	20,181	2,127
20 to 24 years .....	7	78	775	362	412	228	1,957	764	2,328	175
25 years and over .....	114	558	5,925	2,936	2,990	1,847	7,381	3,678	17,853	1,952
25 to 54 years .....	105	491	5,102	2,544	258	1,659	6,167	3,225	15,315	1,665
55 years and over .....	9	67	823	391	431	189	1,215	453	2,537	286
<b>White</b>										
<b>Men, 16 years and over</b> .....	660	6,183	12,338	8,072	4,265	4,882	10,872	2,856	11,739	2,614
16 to 19 years .....	7	274	282	153	129	77	1,473	54	539	27
20 years and over .....	653	5,908	12,056	7,919	4,137	4,805	9,399	2,802	11,200	2,587
20 to 24 years .....	36	854	1,223	775	448	378	1,709	257	1,227	139
25 years and over .....	617	5,054	10,833	7,144	3,689	4,427	7,690	2,545	9,973	2,448
25 to 54 years .....	545	4,385	9,150	6,051	3,109	3,795	6,425	2,015	8,097	2,072
55 years and over .....	72	670	1,673	1,092	581	632	1,265	531	1,875	376
<b>Women, 16 years and over</b> .....	106	622	5,770	2,908	2,862	1,741	9,869	4,077	17,858	1,697
16 to 19 years .....	1	25	152	65	87	41	1,551	147	715	34
20 years and over .....	104	597	5,617	2,842	2,775	1,699	8,318	3,929	17,142	1,663
20 to 24 years .....	6	72	662	317	345	191	1,704	677	2,012	132
25 years and over .....	98	525	4,955	2,525	2,430	1,508	6,614	3,252	15,130	1,531
25 to 54 years .....	90	459	4,218	2,164	2,055	1,341	5,492	2,822	12,972	1,282
55 years and over .....	9	66	736	361	375	167	1,121	431	2,158	249
<b>Black</b>										
<b>Men, 16 years and over</b> .....	22	504	1,320	758	562	734	985	219	1,333	372
16 to 19 years .....	-	12	34	13	21	11	150	4	76	4
20 years and over .....	22	492	1,285	745	540	723	835	215	1,257	368
20 to 24 years .....	2	61	123	65	58	64	212	32	178	33
25 years and over .....	20	431	1,162	680	482	659	623	183	1,079	335
25 to 54 years .....	19	366	1,014	584	430	566	536	158	911	292
55 years and over .....	2	65	148	96	52	93	88	26	169	42
<b>Women, 16 years and over</b> .....	9	30	834	330	504	317	879	392	2,534	395
16 to 19 years .....	1	2	17	4	12	3	160	12	73	9
20 years and over .....	8	28	817	325	492	314	719	380	2,461	386
20 to 24 years .....	-	4	84	30	54	33	203	69	254	35
25 years and over .....	8	24	733	295	438	281	516	311	2,207	351
25 to 54 years .....	8	23	677	273	404	262	458	297	1,880	321
55 years and over .....	-	1	56	22	34	19	58	15	326	29

<sup>1</sup> Excludes private households.

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

(Numbers in thousands)

Industry	1967			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over .....	112,440	44.6	10.1	6.9
<b>Agriculture</b> .....	3,206	20.7	5.1	12.4
Agricultural production, crops .....	1,208	17.4	6.4	15.8
Agricultural production, livestock .....	1,158	22.3	2.5	4.4
Agricultural services, except horticultural .....	288	49.6	5.0	17.3
Horticultural services .....	554	9.7	7.6	19.2
<b>Mining</b> .....	818	15.0	3.8	8.7
Metal mining .....	51	11.0	1.6	10.4
Coal mining .....	167	4.7	1.6	-
Crude petroleum and natural gas extraction .....	475	20.6	4.1	7.8
Nonmetallic mining and quarrying, except fuel .....	124	9.5	8.3	9.5
<b>Construction</b> .....	7,456	8.9	7.2	7.2
<b>Manufacturing</b> .....	20,935	32.8	10.3	8.2
<b>Durable goods</b> .....	12,478	27.0	8.7	7.3
Lumber and wood products, except furniture .....	750	14.9	15.7	5.1
Logging .....	131	5.3	20.3	.9
Sawmills, planing mills, and millwork .....	399	15.2	17.5	5.4
Wood buildings and mobile homes .....	77	12.9	7.3	2.4
Miscellaneous wood products .....	143	23.9	11.2	9.8
Furniture and fixtures .....	634	28.9	9.0	11.7
Stone, clay, glass, and concrete products .....	600	20.9	10.5	9.2
Glass and glass products .....	171	29.4	10.4	5.5
Cement, concrete, gypsum, and plaster products .....	214	8.4	10.5	9.2
Structural clay, pottery, and related products .....	76	26.7	13.2	16.8
Miscellaneous nonmetallic mineral and stone products .....	139	28.6	9.2	9.7
Primary metal industries .....	806	13.3	12.0	7.7
Blast furnaces, steelworks, rolling, and finishing mills .....	349	9.4	13.3	6.1
Iron and steel foundries .....	123	13.8	14.8	8.3
Primary aluminum industries .....	154	16.0	11.2	10.9
Other primary metal industries .....	180	18.3	8.2	7.7
Fabricated metal industries .....	1,285	23.2	7.7	8.6
Cutlery, hand tools, and other hardware .....	128	36.6	8.5	10.0
Fabricated structural metal products .....	483	16.4	7.5	8.5
Screw machine products .....	59	22.7	5.3	14.8
Metal forging and stampings .....	145	28.5	7.9	3.2
Ordnance .....	109	28.6	10.2	4.2
Miscellaneous and not specified fabricated metal products .....	361	24.8	7.9	10.7
Machinery, except electrical .....	2,441	24.1	5.8	5.2
Engines and turbines .....	101	20.4	6.4	1.5
Farm machinery and equipment .....	123	19.8	9.0	4.0
Construction and material handling machines .....	202	14.8	4.4	4.5
Metal working machinery .....	263	18.8	4.5	4.5
Office and accounting machines .....	85	35.8	6.8	6.1
Electronic computing equipment .....	641	38.5	5.7	4.8
Machinery, except electrical, n.e.c. and not specified .....	1,026	19.5	5.5	8.4
Electrical machinery, equipment and supplies .....	2,115	42.0	7.1	7.8
Household appliances .....	167	38.5	11.3	2.4
Radio, T.V., and communication equipment .....	510	41.2	7.7	7.2
Electrical machinery, equipment, and supplies, n.e.c. and not specified .....	1,437	42.7	6.4	8.8
Transportation equipment .....	2,842	20.6	10.7	6.3
Motor vehicles and motor vehicle equipment .....	1,170	19.4	13.2	5.4
Aircraft and parts .....	687	22.5	7.2	7.7
Ship and boat building and repairing .....	273	13.3	18.2	7.4
Guided missiles, space vehicles, and parts .....	430	26.8	5.8	5.0
Cycles and miscellaneous transportation equipment .....	58	17.9	4.1	9.6
Professional and photographic equipment, and watches .....	672	40.9	6.2	8.2
Scientific and controlling instruments .....	228	35.0	2.4	5.4
Optical and health services supplies .....	302	49.8	7.2	12.2
Photographic equipment and supplies .....	118	28.6	10.8	3.3
Toys, amusements, and sporting goods .....	120	47.8	7.5	11.8
Miscellaneous and not specified manufacturing industries .....	413	45.8	8.3	11.7
<b>Nondurable goods</b> .....	8,456	41.4	12.6	9.4
Food and kindred products .....	1,714	33.4	14.4	11.2
Meat products .....	423	37.7	22.8	10.0
Dairy products .....	171	26.0	5.8	4.3
Canned and preserved fruits and vegetables .....	231	40.9	11.9	15.5
Grain mill products .....	118	23.8	8.7	5.9
Bakery products .....	245	32.5	12.8	13.5
Sugar and confectionary products .....	106	45.8	14.9	15.2
Beverage industries .....	219	18.7	11.8	7.5
Miscellaneous and not specified food preparations and kindred products .....	200	40.7	14.8	17.0

See note 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	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Tobacco manufactures .....	58	32.6	27.1	4.2
Textile mill products .....	713	48.1	24.8	6.6
Knitting mills .....	129	72.4	19.3	12.0
Yarn, thread, and fabric mills .....	444	44.2	27.6	4.0
Apparel and other finished textile products .....	1,174	75.2	15.5	20.1
Apparel and accessories, except knit .....	985	77.6	15.5	20.1
Miscellaneous fabricated textile products .....	189	63.0	15.3	20.2
Paper and allied products .....	737	25.1	12.7	6.0
Pulp, paper, and paperboard mills .....	325	16.4	10.7	1.6
Miscellaneous paper and pulp products .....	211	36.4	14.0	8.1
Paperboard containers and boxes .....	201	27.4	14.7	10.8
Printing, publishing, and allied products .....	1,802	43.2	7.2	5.3
Newspaper publishing and printing .....	536	42.1	8.5	4.8
Printing, publishing, and allied industries, except newspapers .....	1,266	43.7	6.6	5.5
Chemicals and allied products .....	1,221	29.2	10.7	5.9
Plastics, synthetics, and resins .....	139	25.2	13.2	9.5
Drugs .....	235	40.9	9.5	6.4
Soaps and cosmetics .....	170	47.7	14.3	8.0
Paints, varnishes, and related products .....	69	20.6	9.7	11.5
Industrial and miscellaneous chemicals .....	567	21.7	10.0	3.5
Petroleum and coal products .....	170	14.2	8.1	4.9
Petroleum refining .....	145	14.0	8.2	5.5
Rubber and miscellaneous plastics products .....	723	36.5	9.5	10.5
Tires and inner tubes .....	87	18.1	18.0	3.2
Other rubber products, and plastics footwear and belting .....	123	36.4	8.9	10.9
Miscellaneous plastics products .....	512	39.7	8.2	11.7
Leather and leather products .....	145	54.5	6.7	15.4
Footwear, except rubber and plastic .....	92	59.3	3.9	9.2
Transportation, communications, and other public utilities .....	7,880	26.9	13.3	6.0
Transportation .....	4,815	23.9	14.5	7.0
Railroads .....	367	6.5	14.1	7.1
Bus service and urban transit .....	451	29.6	27.5	6.0
Taxicab service .....	111	11.7	23.7	11.9
Trucking service .....	1,767	13.5	9.9	6.2
Warehousing and storage .....	121	26.2	13.7	12.1
U.S. Postal Service .....	874	32.1	22.3	7.1
Water transportation .....	187	19.1	10.4	8.2
Air transportation .....	643	34.8	12.1	8.1
Services incidental to transportation .....	280	59.9	4.4	6.5
Communications .....	1,525	44.3	10.6	4.5
Radio and television broadcasting .....	279	37.4	8.3	5.3
Telephone (wire and radio) .....	1,060	47.6	11.6	4.1
Telegraph and miscellaneous communication services .....	186	35.7	9.0	6.0
Utilities and sanitary services .....	1,539	19.1	12.3	4.5
Electric light and power .....	880	21.7	9.0	2.8
Gas and steam supply systems .....	197	18.4	9.3	6.6
Electric and gas, and other combinations .....	180	21.4	10.7	4.9
Water supply and irrigation .....	204	19.0	11.5	7.1
Sanitary services .....	273	11.0	24.0	5.0
Wholesale and retail trade .....	23,392	47.4	8.0	7.1
Wholesale trade .....	4,580	28.0	5.8	7.0
Durable goods .....	2,525	26.6	4.8	5.8
Motor vehicles and equipment .....	250	25.7	4.8	7.0
Furniture and home furnishings .....	80	35.3	5.0	7.0
Lumber and construction materials .....	179	18.7	6.8	5.6
Metals and minerals, except petroleum .....	83	20.6	5.0	6.4
Electrical goods .....	284	29.9	5.3	7.8
Hardware, plumbing, and heating supplies .....	239	28.2	2.7	4.2
Machinery, equipment and supplies .....	1,129	27.2	4.0	4.9
Scrap and waste materials .....	146	14.2	11.3	7.6
Miscellaneous wholesale trade, durable goods .....	89	37.2	4.8	8.4
Nondurable goods .....	2,054	29.6	6.9	8.5
Paper and paper products .....	124	33.2	7.9	4.3
Drugs, chemicals, and allied products .....	188	34.9	5.5	8.1
Apparel, fabrics, and notions .....	123	45.5	9.7	16.8
Groceries and related products .....	739	24.3	8.4	11.1
Farm products—raw materials .....	100	29.3	5.2	3.2
Petroleum products .....	175	31.2	5.7	3.5
Alcoholic beverages .....	159	17.7	7.0	7.6
Farm supplies .....	133	25.2	3.3	2.6
Miscellaneous nondurable goods and not specified wholesale trade .....	313	38.3	5.5	8.3

See note at end of table.



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

(Numbers in thousands)

Industry	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Retail trade .....	18,812	52.2	8.5	7.2
Lumber and building material retailing .....	514	25.3	7.7	6.1
Hardware stores .....	195	34.6	4.9	7.7
Retail nurseries and garden stores .....	88	38.4	2.1	8.8
Department stores .....	2,062	71.8	12.2	8.3
Variety stores .....	131	73.0	8.9	7.8
Miscellaneous general merchandise stores .....	130	63.1	14.9	8.3
Grocery stores .....	2,663	48.0	7.8	7.1
Dairy products stores .....	60	61.9	3.4	2.8
Retail bakeries .....	185	60.9	5.0	8.0
Food stores, n.e.c. ....	182	48.1	5.8	9.8
Motor vehicle dealers .....	1,106	18.8	5.0	4.9
Auto and home supply stores .....	418	17.2	5.1	8.4
Gasoline service stations .....	530	24.3	6.9	5.8
Miscellaneous vehicle dealers .....	90	22.4	2.2	2.8
Apparel and accessory stores, except shoe .....	794	77.8	9.0	9.1
Shoe stores .....	171	55.2	10.0	8.0
Furniture and home furnishings stores .....	581	39.0	7.0	9.3
Household appliances, T.V., and radio stores .....	466	35.5	8.3	6.3
Eating and drinking places .....	5,423	57.1	10.9	8.6
Drug stores .....	519	63.3	7.2	5.2
Liquor stores .....	142	35.5	12.8	3.0
Sporting goods, bicycles, and hobby stores .....	315	49.0	4.1	4.4
Book and stationery stores .....	181	53.9	5.2	4.6
Jewelry stores .....	190	64.5	3.9	8.6
Sewing, needlework, and piece goods stores .....	68	90.3	4.1	8.3
Mail order houses .....	121	67.9	10.7	8.2
Vending machine operators .....	77	34.7	4.6	3.7
Direct selling establishments .....	331	74.1	3.7	7.4
Fuel and ice dealers .....	98	19.2	2.4	2.8
Retail florists .....	195	71.7	1.4	3.8
Miscellaneous retail stores and not specified retail trade .....	754	58.6	5.3	5.7
Finance, insurance, and real estate .....	7,763	59.3	7.9	5.7
Banking .....	1,984	71.1	9.2	6.6
Savings and loan associations .....	242	79.0	5.9	6.5
Credit agencies, n.e.c. ....	527	67.6	8.6	6.1
Security, commodity brokerage, and investment companies .....	668	39.1	5.4	4.0
Insurance .....	2,256	60.7	8.4	4.2
Real estate, including real estate-insurance law offices .....	2,086	48.6	6.9	6.9
Services .....	35,743	61.6	11.6	6.2
Private households .....	1,216	84.9	21.9	11.8
Other service industries .....	34,527	60.8	11.2	6.0
Business and repair services .....	6,636	38.8	10.2	7.3
Advertising .....	293	53.6	5.3	4.6
Services to dwellings and other buildings .....	675	45.9	18.7	13.7
Commercial research, development, and testing labs .....	249	34.1	4.5	4.1
Personnel supply services .....	640	72.5	20.9	6.3
Business management and consulting services .....	460	50.0	5.1	2.8
Computer and data processing services .....	663	50.2	6.6	3.2
Detective and protective services .....	371	20.7	23.0	8.2
Business services, n.e.c. ....	1,355	52.1	7.1	6.6
Automobile services, except repair .....	325	26.2	14.3	7.8
Automobile repair shops .....	946	9.2	6.3	10.4
Electrical repair shops .....	129	12.7	4.6	6.9
Miscellaneous repair services .....	530	17.4	5.3	7.7
Personal services, except private household .....	3,382	67.8	11.7	8.8
Hotels and motels .....	1,154	57.6	15.7	12.4
Lodging places, except hotels and motels .....	443	85.2	6.6	5.8
Laundry, cleaning, and garment services .....	484	57.3	17.9	11.0
Beauty shops .....	755	89.2	7.7	6.5
Barber shops .....	93	18.0	9.1	7.1
Funeral service and crematories .....	73	30.4	17.5	4.1
Entertainment and recreational services .....	1,353	41.1	8.0	7.1
Theaters and motion pictures .....	422	36.6	5.7	5.7
Bowling alleys, billiard and pool parlors .....	71	47.0	6.9	3.8
Miscellaneous entertainment and recreation services .....	859	42.8	9.3	8.1

See note at end of table.

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

(Numbers in thousands)

Industry	1987			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Professional and related services .....	22,963	67.6	11.7	5.1
Hospitals .....	4,444	77.1	16.4	5.5
Health services, except hospitals .....	4,034	78.4	11.1	5.3
Offices of physicians .....	950	70.1	2.7	8.1
Offices of dentists .....	552	72.3	2.7	5.2
Offices of chiropractors .....	72	57.1	.6	2.7
Offices of optometrists .....	58	55.5	.5	.9
Nursing and personal care facilities .....	1,337	87.6	21.5	4.3
Educational services .....	8,349	66.2	11.2	4.6
Elementary and secondary schools .....	5,550	72.0	12.0	5.2
Colleges and universities .....	2,378	51.7	9.3	4.0
Business, trade, and vocational schools .....	71	55.3	15.8	6.0
Libraries .....	172	78.5	13.9	3.0
Educational services, n.e.c. ....	178	74.4	8.2	3.9
Social services .....	1,946	78.7	17.2	7.0
Job training and vocational rehabilitation services .....	198	52.5	17.0	3.0
Child day care services .....	582	96.3	15.7	6.8
Residential care facilities, without nursing .....	403	73.4	15.3	8.1
Social services, n.e.c. ....	763	75.0	19.5	8.7
Other professional services .....	4,191	46.7	5.5	4.2
Legal services .....	1,138	56.2	5.0	3.8
Museums, art galleries, and zoos .....	91	46.1	12.5	7.8
Religious organizations .....	790	45.2	8.8	4.5
Membership organizations .....	448	57.4	10.6	5.5
Engineering, architectural, and surveying services .....	804	22.8	3.3	4.5
Accounting, auditing, and bookkeeping services .....	558	53.6	3.6	3.8
Noncommercial educational and scientific research .....	128	38.0	7.2	3.8
Miscellaneous professional and related services .....	237	55.3	3.0	2.3
Forestry and fisheries .....	192	20.3	3.5	5.9
Forestry .....	100	26.8	5.4	5.0
Fisheries .....	92	13.3	1.4	6.9
Public administration .....	5,246	41.4	14.8	5.7
Executive and legislative offices .....	140	59.8	10.7	3.8
General government, n.e.c. ....	568	50.7	17.5	5.9
Justice, public order, and safety .....	1,848	28.5	13.1	5.6
Public finance, taxation, and monetary policy .....	365	60.1	16.8	3.3
Administration of human resources programs .....	613	64.3	19.0	5.8
Administration of environmental quality and housing programs .....	302	34.6	9.1	4.3
Administration of economic programs .....	524	42.8	12.6	4.2
National security and international affairs .....	870	38.8	15.5	8.8

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 less than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown.

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					
	1986	1987	Total		Wage and salary workers <sup>1</sup>			
			1986	1987	Paid absences		Unpaid absences	
					1986	1987	1986	1987
Total, 16 years and over .....	5,741	5,910	5,613	5,784	2,840	2,997	2,229	2,230
Vacation .....	3,234	3,421	3,194	3,375	2,118	2,254	855	888
Illness .....	1,292	1,320	1,265	1,290	492	501	670	685
Bad weather .....	128	92	103	72	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	56	34	56	34	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,030	1,043	995	1,012	230	242	704	657
Men, 16 years and over .....	2,828	2,840	2,725	2,741	1,494	1,517	910	903
Vacation .....	1,558	1,608	1,528	1,574	1,138	1,159	272	290
Illness .....	688	698	665	673	267	269	336	346
All other reasons <sup>3</sup> .....	584	533	533	495	89	89	302	266
Women, 16 years and over .....	2,912	3,071	2,888	3,043	1,347	1,481	1,319	1,327
Vacation .....	1,676	1,813	1,666	1,801	981	1,095	583	598
Illness .....	604	622	600	617	225	232	334	338
All other reasons <sup>3</sup> .....	632	636	621	625	141	153	402	391

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

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

<sup>3</sup> includes bad weather and industrial dispute, not shown separately.

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

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

Hours of work	1987					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	106,530	3,082	103,448	100.0	100.0	100.0
1 to 34 hours .....	28,007	935	27,072	26.3	30.3	26.2
1 to 4 hours .....	783	50	733	.7	1.6	.7
5 to 14 hours .....	4,484	224	4,260	4.2	7.3	4.1
15 to 29 hours .....	12,869	424	12,444	12.1	13.8	12.0
30 to 34 hours .....	9,871	237	9,635	9.3	7.7	9.3
35 hours and over .....	78,522	2,147	76,377	73.7	69.7	73.8
35 to 39 hours .....	7,158	145	7,014	6.7	4.7	6.8
40 hours .....	41,034	593	40,441	38.5	19.2	39.1
41 hours and over .....	30,330	1,409	28,922	28.5	45.7	28.0
41 to 48 hours .....	10,852	234	10,619	10.2	7.6	10.3
49 to 59 hours .....	11,098	408	10,690	10.4	13.2	10.3
60 hours and over .....	8,380	767	7,613	7.9	24.9	7.4
Average hours, total at work .....	39.0	43.7	38.8			
Average hours, workers on full-time schedules .....	43.3	51.8	43.1			

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**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	1987					
	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 .....	28,007	9,917	18,090	27,072	9,616	17,455
Economic reasons .....	5,401	1,706	3,695	5,122	1,594	3,528
Slack work .....	2,385	1,361	1,024	2,201	1,260	941
Material shortages or repairs to plant and equipment .....	59	59	-	57	57	-
New job started during week .....	206	206	-	200	200	-
Job terminated during week .....	81	81	-	78	78	-
Could find only part-time work .....	2,672	-	2,672	2,587	-	2,587
Other reasons .....	22,604	8,209	14,395	21,951	8,023	13,928
Does not want, or unavailable for, full-time work .....	12,043	-	12,043	11,689	-	11,689
Vacation .....	1,540	1,540	-	1,523	1,523	-
Illness .....	1,479	1,330	149	1,448	1,311	137
Bad weather .....	396	396	-	327	327	-
Industrial dispute .....	9	9	-	9	9	-
Legal or religious holiday .....	3,416	3,416	-	3,401	3,401	-
Full time for this job .....	1,588	-	1,588	1,549	-	1,549
All other reasons .....	2,134	1,519	615	2,005	1,451	554
Average hours:						
Economic reasons .....	22.0	24.2	21.0	22.1	24.3	21.1
Other reasons .....	22.4	27.9	19.2	22.5	28.0	19.3
Worked 30 to 34 hours:						
Economic reasons .....	1,690	758	932	1,608	718	890
Other reasons .....	8,181	5,446	2,735	8,027	5,371	2,656

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

(Numbers in thousands)

Industry	1987								
	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 .....	103,448	5,122	13,928	84,398	55,476	10,619	18,303	38.8	43.1
Wage and salary workers .....	95,499	4,523	12,555	78,421	52,774	10,031	15,616	38.7	42.7
Mining .....	739	29	16	694	375	104	215	44.7	46.2
Construction .....	5,772	396	267	5,109	3,511	595	1,003	39.8	42.3
Manufacturing .....	19,650	493	612	18,545	12,235	2,869	3,441	41.5	42.7
Durable goods .....	11,723	183	272	11,268	7,400	1,728	2,140	41.9	42.7
Nondurable goods .....	7,927	310	339	7,278	4,836	1,141	1,301	40.9	42.6
Transportation and public utilities .....	7,081	224	375	6,482	4,258	848	1,376	41.5	43.4
Wholesale and retail trade .....	20,572	1,549	4,696	14,327	8,740	2,121	3,466	36.8	43.7
Finance, insurance, and real estate .....	6,840	130	649	6,061	4,340	671	1,050	39.2	41.6
Service industries .....	29,864	1,636	5,689	22,539	15,767	2,396	4,376	36.7	42.3
Private households .....	1,170	222	524	424	286	38	100	25.2	44.9
All other industries .....	28,694	1,414	5,165	22,115	15,481	2,358	4,276	37.2	42.3
Public administration .....	4,981	66	252	4,663	3,547	428	688	40.0	41.4
Self-employed workers .....	7,689	585	1,275	5,829	2,621	573	2,635	41.0	48.2
Unpaid family workers .....	260	13	97	150	83	15	52	36.3	46.6

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	1987							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	103,448	5,122	13,928	84,398	55,476	28,922	38.8	43.1
16 to 19 years .....	6,161	675	3,341	2,145	1,688	457	25.5	40.2
16 to 17 years .....	2,507	215	1,925	367	302	65	19.5	38.9
18 to 19 years .....	3,654	460	1,416	1,778	1,387	391	29.7	40.5
20 years and over .....	97,287	4,447	10,587	82,253	53,788	28,465	39.7	43.2
20 to 24 years .....	12,694	929	1,969	9,796	6,916	2,880	37.2	42.1
25 years and over .....	84,593	3,518	8,618	72,457	46,872	25,585	40.0	43.3
25 to 44 years .....	55,901	2,364	4,772	48,765	31,019	17,746	40.6	43.4
45 to 64 years .....	26,178	1,039	2,643	22,496	15,007	7,489	39.9	43.1
65 years and over .....	2,513	114	1,203	1,196	845	351	29.1	42.1
<b>Men, 16 years and over</b> .....	56,823	2,299	4,165	50,359	29,635	20,724	41.8	44.6
16 to 19 years .....	3,061	320	1,579	1,162	875	287	26.6	40.9
16 to 17 years .....	1,238	108	917	213	170	43	20.5	39.3
18 to 19 years .....	1,823	212	662	949	704	245	30.8	41.2
20 years and over .....	53,761	1,978	2,585	49,198	28,760	20,438	42.6	44.7
20 to 24 years .....	6,531	445	795	5,291	3,424	1,867	39.0	43.2
25 years and over .....	47,230	1,533	1,790	43,907	25,338	18,569	43.2	44.8
25 to 44 years .....	30,979	1,051	655	29,273	16,474	12,799	43.7	45.0
45 to 64 years .....	14,788	424	508	13,856	8,346	5,510	43.0	44.5
65 years and over .....	1,463	57	627	779	519	260	31.0	42.8
<b>Women, 16 years and over</b> .....	46,625	2,823	9,763	34,039	25,841	8,198	35.3	40.9
16 to 19 years .....	3,100	354	1,762	984	813	171	24.5	39.5
16 to 17 years .....	1,270	107	1,008	155	132	23	18.6	38.4
18 to 19 years .....	1,830	247	754	829	682	147	28.5	39.7
20 years and over .....	43,525	2,469	8,001	33,055	25,028	8,027	36.0	40.9
20 to 24 years .....	6,164	484	1,174	4,506	3,494	1,012	35.3	40.7
25 years and over .....	37,362	1,985	6,826	28,551	21,537	7,014	36.2	41.0
25 to 44 years .....	24,922	1,314	4,117	19,491	14,546	4,945	36.6	41.0
45 to 64 years .....	11,390	614	2,135	8,641	6,661	1,980	36.0	40.9
65 years and over .....	1,050	57	575	418	328	90	26.5	40.8
<b>RACE</b>								
White, 16 years and over .....	89,787	4,142	12,593	73,052	46,693	26,359	39.0	43.3
Men .....	49,892	1,866	3,694	44,332	25,289	19,043	42.1	44.8
Women .....	39,894	2,275	8,898	28,721	21,406	7,315	35.1	41.0
Black, 16 years and over .....	10,517	827	972	8,718	6,916	1,802	37.7	41.2
Men .....	5,245	363	335	4,547	3,381	1,166	39.3	42.2
Women .....	5,272	464	637	4,171	3,535	636	36.1	40.0
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	36,776	973	1,245	34,558	19,519	15,039	43.6	45.0
Widowed, divorced, or separated .....	5,532	276	245	5,011	2,939	2,072	42.5	44.8
Single (never married) .....	14,515	1,050	2,674	10,791	7,176	3,615	37.0	43.0
Women, 16 years and over:								
Married, spouse present .....	25,665	1,334	5,731	18,600	14,346	4,254	35.1	40.6
Widowed, divorced, or separated .....	9,026	594	1,106	7,326	5,354	1,972	37.5	41.5
Single (never married) .....	11,934	895	2,926	8,113	6,140	1,973	34.0	41.0

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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	1987								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup>	103,166	5,069	13,869	84,227	55,281	10,624	18,322	38.9	43.1
Managerial and professional specialty	25,963	475	2,296	23,192	13,292	2,809	7,090	41.9	44.6
Executive, administrative, and managerial	12,722	154	608	11,960	6,390	1,485	4,085	44.0	45.5
Professional specialty	13,241	322	1,688	11,232	6,903	1,325	3,005	39.9	43.7
Technical, sales, and administrative support	33,439	1,335	5,748	26,356	18,480	3,116	4,760	37.5	42.1
Technicians and related support	3,192	57	356	2,779	1,981	355	443	39.3	42.0
Sales occupations	12,873	723	2,570	9,580	5,153	1,271	3,156	39.0	45.4
Administrative support, including clerical	17,374	555	2,822	13,997	11,346	1,490	1,162	36.1	40.0
Service occupations	14,294	1,529	3,981	8,784	6,436	912	1,436	33.5	42.4
Private household	902	159	421	323	220	30	72	25.1	44.3
Protective service	1,790	56	157	1,576	972	229	375	41.9	44.9
Service, except private household and protective	11,601	1,314	3,402	6,885	5,244	653	988	32.9	41.7
Precision production, craft, and repair	12,896	634	436	11,826	7,634	1,730	2,463	41.3	43.1
Operators, fabricators, and laborers	16,574	1,096	1,408	14,069	9,438	2,057	2,573	39.5	42.8
Machine operators, assemblers, and inspectors	7,609	363	323	6,923	4,967	1,050	907	40.0	41.7
Transportation and material moving occupations	4,411	249	337	3,825	2,047	549	1,229	42.6	46.0
Handlers, equipment cleaners, helpers, and laborers	4,554	485	749	3,321	2,425	459	437	35.8	41.5
Men, 16 years and over <sup>1</sup>	56,434	2,240	4,070	50,125	29,402	6,816	13,907	41.9	44.6
Managerial and professional specialty	14,714	210	643	13,861	6,970	1,665	5,226	44.7	46.3
Executive, administrative, and managerial	7,917	88	222	7,607	3,559	932	3,115	45.9	47.0
Professional specialty	6,797	122	421	6,254	3,411	733	2,111	43.3	45.5
Technical, sales, and administrative support	11,904	277	1,062	10,566	5,849	1,466	3,251	42.3	45.1
Technicians and related support	1,657	20	94	1,543	1,025	198	320	41.5	43.1
Sales occupations	6,761	164	608	5,989	2,667	831	2,491	44.2	47.3
Administrative support, including clerical	3,487	93	360	3,034	2,157	437	440	38.8	41.7
Service occupations	5,671	431	1,095	4,144	2,835	489	820	37.1	43.6
Private household	33	8	12	13	8	1	3	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,541	41	102	1,398	838	205	354	43.0	45.4
Service, except private household and protective	4,096	383	980	2,733	1,989	283	462	35.0	42.7
Precision production, craft, and repair	11,817	569	321	10,927	6,963	1,614	2,350	41.7	43.3
Operators, fabricators, and laborers	12,329	753	949	10,627	6,784	1,582	2,261	40.4	43.6
Machine operators, assemblers, and inspectors	4,487	154	135	4,199	2,846	668	685	41.3	42.6
Transportation and material moving occupations	4,059	208	218	3,633	1,920	525	1,188	43.5	46.2
Handlers, equipment cleaners, helpers, and laborers	3,783	391	597	2,795	2,018	389	388	36.0	41.7
Women, 16 years and over <sup>1</sup>	46,731	2,829	9,799	34,102	25,879	3,808	4,415	35.3	40.9
Managerial and professional specialty	11,250	265	1,653	9,331	6,322	1,145	1,864	38.3	42.1
Executive, administrative, and managerial	4,805	66	386	4,353	2,830	552	970	40.8	42.9
Professional specialty	6,445	200	1,267	4,978	3,492	592	894	36.4	41.4
Technical, sales, and administrative support	21,535	1,058	4,686	15,790	12,631	1,650	1,509	34.9	40.1
Technicians and related support	1,536	38	262	1,236	956	157	122	37.0	40.5
Sales occupations	6,112	559	1,962	3,592	2,486	440	665	33.1	42.1
Administrative support, including clerical	13,887	462	2,462	10,963	9,189	1,053	722	35.4	39.5
Service occupations	8,623	1,098	2,886	4,640	3,601	422	616	31.2	41.3
Private household	869	151	408	310	212	29	69	25.0	44.2
Protective service	249	16	55	178	134	24	21	34.7	41.5
Service, except private household and protective	7,505	931	2,422	4,152	3,256	370	526	31.8	41.0
Precision production, craft, and repair	1,079	64	115	899	670	116	113	37.9	41.2
Operators, fabricators, and laborers	4,245	344	459	3,442	2,654	475	313	37.0	40.5
Machine operators, assemblers, and inspectors	3,121	209	188	2,724	2,121	381	222	38.2	40.4
Transportation and material moving occupations	352	41	119	192	126	24	42	32.3	42.7
Handlers, equipment cleaners, helpers, and laborers	772	94	152	526	407	70	49	34.3	40.6

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

<sup>2</sup> Data not shown where base is less than 35,000.

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

(In thousands)

Reason and sex	Total		Age							
	1986	1987	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>										
Total not in labor force .....	62,752	62,888	6,570	6,618	4,128	3,993	21,414	21,161	30,641	31,115
Do not want a job now .....	58,926	57,172	5,314	5,377	3,219	3,172	18,355	18,127	30,034	30,498
Current activity:										
Going to school .....	6,305	6,378	4,131	4,137	1,377	1,408	773	820	23	14
Ill, disabled .....	4,061	4,294	36	36	102	124	1,951	2,122	1,973	2,014
Keeping house .....	26,366	25,724	353	366	1,286	1,197	12,639	12,282	12,085	11,878
Retired .....	15,599	16,237	-	-	-	-	383	407	15,216	15,831
Other activity .....	4,595	4,539	794	838	454	443	2,609	2,496	737	761
Want a job now .....	5,825	5,714	1,256	1,240	909	822	3,057	3,034	605	616
Reason for not looking:										
School attendance .....	1,422	1,420	911	894	261	235	245	284	5	6
Ill health, disability .....	842	662	20	27	65	46	572	603	184	185
Home responsibilities .....	1,304	1,266	72	70	255	241	939	905	38	49
Think cannot get a job .....	1,121	1,026	120	121	160	143	657	585	186	177
Job-market factors .....	776	672	71	73	123	100	492	421	90	80
Personal factors .....	345	354	49	48	37	43	165	164	96	97
Other reasons <sup>1</sup> .....	1,136	1,140	133	128	168	157	644	657	192	199
<b>Men</b>										
Total not in labor force .....	20,376	20,692	3,173	3,222	1,349	1,358	4,050	4,116	11,804	11,996
Do not want a job now .....	18,402	18,688	2,557	2,596	1,041	1,083	3,280	3,290	11,525	11,719
Current activity:										
Going to school .....	3,197	3,228	2,100	2,107	749	767	340	350	8	4
Ill, disabled .....	2,143	2,193	24	17	51	72	1,122	1,191	948	914
Keeping house .....	383	457	19	30	18	24	126	152	216	249
Retired .....	10,171	10,353	-	-	-	-	313	309	9,858	10,045
Other activity .....	2,508	2,457	414	442	223	220	1,377	1,288	495	507
Want a job now .....	1,974	2,003	616	624	308	275	769	824	281	278
Reason for not looking:										
School attendance .....	704	718	471	489	132	118	99	108	3	2
Ill health, disability .....	407	426	10	12	36	29	266	295	94	90
Think cannot get a job .....	437	425	68	68	65	66	224	212	80	78
Other reasons <sup>1</sup> .....	426	434	67	55	75	62	180	209	104	108
<b>Women</b>										
Total not in labor force .....	42,376	42,195	3,397	3,396	2,779	2,636	17,365	17,045	18,835	19,119
Do not want a job now .....	38,524	38,484	2,759	2,781	2,180	2,091	15,072	14,838	18,511	18,778
Current activity:										
Going to school .....	3,108	3,150	2,031	2,030	629	642	431	469	15	10
Ill, disabled .....	1,918	2,101	14	18	51	54	829	931	1,025	1,099
Keeping house .....	25,983	25,267	334	337	1,268	1,172	12,510	12,131	11,870	11,629
Retired .....	5,428	5,884	-	-	-	-	70	96	5,358	5,766
Other activity .....	2,087	2,082	380	396	232	223	1,232	1,209	243	254
Want a job now .....	3,851	3,711	639	616	600	547	2,291	2,208	324	339
Reason not looking:										
School attendance .....	718	702	440	405	129	116	148	177	2	3
Ill health, disability .....	435	436	9	16	29	16	306	308	90	96
Home responsibilities .....	1,304	1,266	72	70	255	241	939	905	38	49
Think cannot get a job .....	684	601	52	53	94	78	434	371	106	99
Other reasons .....	710	706	66	72	93	96	464	447	88	92

<sup>1</sup> 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			
	1986	1987	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
<b>WHITE</b>												
Total not in labor force .....	53,631	53,669	8,194	8,089	17,952	17,669	27,485	27,910	17,173	17,410	36,458	36,258
Do not want a job now .....	49,369	49,455	6,681	6,636	15,703	15,422	26,986	27,399	15,705	15,931	33,664	33,524
Current activity:												
Going to school .....	4,886	4,923	4,287	4,302	584	609	17	13	2,486	2,503	2,400	2,420
Ill, disabled .....	3,288	3,386	110	116	1,556	1,642	1,623	1,630	1,759	1,750	1,529	1,636
Keeping house .....	23,475	22,862	1,364	1,266	11,119	10,781	10,990	10,813	303	357	23,172	22,505
Retired .....	14,043	14,629	-	-	352	374	13,691	14,257	9,192	9,363	4,851	5,266
Other activity .....	3,677	3,655	920	950	2,092	2,016	665	686	1,965	1,958	1,712	1,697
Want a job now .....	4,262	4,213	1,513	1,451	2,250	2,248	501	511	1,468	1,479	2,794	2,734
Reason for not looking:												
School attendance .....	986	1,016	820	805	162	206	4	5	503	518	483	498
Ill health, disability .....	602	649	57	53	405	450	139	145	310	340	292	309
Home responsibilities .....	977	932	231	207	713	682	34	43	-	-	977	932
Think cannot get a job .....	770	693	166	162	450	389	154	140	300	279	470	414
Other reasons <sup>1</sup> .....	927	923	239	224	520	521	170	178	355	342	572	561
<b>BLACK</b>												
Total not in labor force .....	7,335	7,359	1,998	2,025	2,662	2,643	2,676	2,691	2,583	2,641	4,752	4,717
Do not want a job now .....	5,982	6,075	1,416	1,491	1,978	1,987	2,588	2,597	2,158	2,210	3,824	3,865
Current activity:												
Going to school .....	1,006	1,035	902	920	102	115	2	-	489	496	517	540
Ill, disabled .....	694	814	23	39	354	425	315	350	342	395	353	419
Keeping house .....	2,228	2,161	230	251	1,071	1,025	927	885	70	77	2,158	2,084
Retired .....	1,305	1,344	-	-	25	27	1,281	1,317	813	822	492	521
Other activity .....	748	721	261	281	426	395	63	45	444	420	304	301
Want a job now .....	1,353	1,284	580	535	686	657	88	94	424	431	929	852
Reason for not looking:												
School attendance .....	374	333	313	277	59	56	1	-	166	159	208	174
Ill health, disability .....	216	188	24	18	153	132	40	37	84	72	132	116
Home responsibilities .....	284	295	85	99	194	192	5	5	-	-	284	295
Think cannot get a job .....	297	294	100	90	172	173	25	32	112	127	185	167
Other reasons <sup>1</sup> .....	182	174	58	51	108	104	17	20	62	73	120	100
<b>HISPANIC ORIGIN</b>												
Total not in labor force .....	4,268	4,327	1,215	1,207	1,972	2,029	1,080	1,090	1,158	1,208	3,110	3,119
Do not want a job now .....	3,741	3,749	995	971	1,688	1,723	1,055	1,055	995	1,012	2,747	2,734
Current activity:												
Going to school .....	601	583	537	515	63	67	1	1	283	284	318	298
Ill, disabled .....	305	325	12	22	188	193	104	109	182	178	123	147
Keeping house .....	2,014	2,011	319	311	1,262	1,286	432	414	28	50	1,987	1,961
Retired .....	503	523	-	-	10	15	493	509	321	326	182	196
Other activity .....	318	307	127	123	165	162	25	22	181	174	137	132
Want a job now .....	525	578	220	237	280	307	28	34	162	195	362	384
Reason for not looking:												
School attendance .....	121	150	101	119	20	31	-	-	53	75	68	76
Ill health, disability .....	63	72	10	5	42	53	12	15	33	40	30	32
Home responsibilities .....	160	160	48	46	109	110	6	3	-	-	160	160
Think cannot get a job .....	98	106	28	42	63	55	6	10	42	48	55	58
Other reasons <sup>1</sup> .....	83	90	33	25	46	58	4	7	34	32	49	58

<sup>1</sup> 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" group are not presented and Hispanics are included in both the white and black population groups.



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	1987							
	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
<b>TOTAL</b>								
Personal factors:								
Employers think too young or old .....	131	19	1	30	82	108	20	6
Lacks education or training .....	138	22	28	86	3	95	34	22
Other personal handicap .....	84	9	15	49	13	64	18	8
Job-market factors:								
Could not find work .....	366	46	61	230	30	221	136	52
Thinks no job available .....	306	27	39	191	50	205	87	19
<b>Men</b>								
Personal factors:								
Employers think too young or old .....	54	10	1	12	31	42	10	2
Lacks education or training .....	45	15	10	20	1	26	16	9
Other personal handicap .....	31	3	5	18	4	23	7	3
Job-market factors:								
Could not find work .....	163	27	28	91	16	100	59	23
Thinks no job available .....	132	14	23	70	25	88	35	10
<b>Women</b>								
Personal factors:								
Employers think too young or old .....	78	9	-	18	51	66	10	4
Lacks education or training .....	92	7	18	65	3	69	18	12
Other personal handicap .....	53	5	10	31	8	41	11	5
Job-market factors:								
Could not find work .....	203	19	33	137	13	121	76	29
Thinks no job available .....	174	12	16	120	24	117	52	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.

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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			
	1986	1987	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>												
Do not intend to seek work .....	53,367	53,549	5,888	5,877	17,397	17,148	30,083	30,524	46,307	46,382	5,831	5,884
Intend to seek work in the next 12 months .....	9,382	9,335	4,808	4,733	4,016	4,012	557	591	7,323	7,305	1,704	1,674
Never worked .....	1,693	1,637	1,526	1,468	159	165	9	3	1,147	1,117	457	433
Last worked over 5 years ago .....	1,221	1,230	64	69	993	983	185	179	895	914	282	279
Last worked 1 to 5 years ago .....	2,013	2,069	585	583	1,241	1,291	188	195	1,559	1,622	371	368
Worked during previous 12 months .....	4,455	4,400	2,638	2,814	1,625	1,574	195	213	3,721	3,652	595	596
<b>Men</b>												
Do not intend to seek work .....	16,917	17,183	2,305	2,361	3,080	3,106	11,523	11,716	14,437	14,658	2,015	2,037
Intend to seek work in the next 12 months .....	3,457	3,508	2,217	2,218	969	1,009	272	280	2,736	2,751	568	604
Never worked .....	744	751	716	716	29	34	1	1	515	512	192	197
Last worked over 5 years ago .....	232	266	14	16	149	173	70	78	159	177	54	78
Last worked 1 to 5 years ago .....	587	618	185	194	310	325	93	98	462	491	94	94
Worked during previous 12 months .....	1,894	1,873	1,304	1,293	483	477	109	104	1,599	1,571	227	235
<b>Women</b>												
Do not intend to seek work .....	36,449	36,366	3,583	3,516	14,316	14,042	18,551	18,808	31,870	31,704	3,616	3,647
Intend to seek work in the next 12 months .....	5,925	5,828	2,592	2,514	3,047	3,003	284	310	4,587	4,554	1,137	1,070
Never worked .....	949	886	810	753	131	131	8	3	632	605	265	236
Last worked over 5 years ago .....	989	964	50	52	843	610	95	101	736	737	227	201
Last worked 1 to 5 years ago .....	1,426	1,451	400	391	931	965	95	96	1,097	1,131	276	273
Worked during previous 12 months .....	2,561	2,527	1,333	1,321	1,142	1,097	86	109	2,122	2,081	368	361

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	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	180,587	182,753	155,432	156,958	19,989	20,352	12,344	12,867
Civilian labor force .....	117,834	119,865	101,801	103,290	12,654	12,993	8,076	8,541
Percent of population .....	65.3	65.6	65.5	65.8	63.3	63.8	65.4	66.4
Employed .....	109,597	112,440	95,660	97,789	10,814	11,309	7,219	7,790
Agriculture .....	3,163	3,208	2,958	2,986	155	164	329	398
Nonagricultural industries .....	106,434	109,232	92,703	94,803	10,659	11,145	6,890	7,391
Unemployed .....	8,237	7,425	6,140	5,501	1,840	1,684	857	751
Unemployment rate .....	7.0	6.2	6.0	5.3	14.5	13.0	10.6	8.8
Not in labor force .....	62,752	62,888	53,631	53,669	7,335	7,359	4,268	4,327
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	85,798	86,899	74,390	75,189	8,956	9,128	6,106	6,371
Civilian labor force .....	65,422	66,207	57,217	57,779	6,373	6,486	4,948	5,163
Percent of population .....	76.3	76.2	76.9	76.8	71.2	71.1	81.0	81.0
Employed .....	60,892	62,107	53,785	54,647	5,428	5,661	4,428	4,713
Agriculture .....	2,511	2,543	2,340	2,354	133	142	287	351
Nonagricultural industries .....	58,381	59,564	51,444	52,293	5,295	5,519	4,140	4,361
Unemployed .....	4,530	4,101	3,433	3,132	946	826	520	451
Unemployment rate .....	6.9	6.2	6.0	5.4	14.8	12.7	10.5	8.7
Not in labor force .....	20,376	20,692	17,173	17,410	2,583	2,642	1,158	1,208
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	78,523	79,565	68,413	69,175	7,907	8,063	5,451	5,700
Civilian labor force .....	61,320	62,095	53,675	54,232	5,915	6,023	4,612	4,818
Percent of population .....	78.1	78.0	78.5	78.4	74.8	74.7	84.6	84.5
Employed .....	57,569	58,726	50,818	51,649	5,150	5,357	4,174	4,444
Agriculture .....	2,292	2,329	2,131	2,150	125	135	263	327
Nonagricultural industries .....	55,277	56,397	48,687	49,499	5,025	5,222	3,911	4,118
Unemployed .....	3,751	3,369	2,857	2,584	765	666	438	374
Unemployment rate .....	6.1	5.4	5.3	4.8	12.9	11.1	9.5	7.8
Not in labor force .....	17,203	17,470	14,738	14,942	1,991	2,040	839	882
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	94,789	95,853	81,042	81,769	11,033	11,224	6,238	6,496
Civilian labor force .....	52,413	53,658	44,584	45,510	6,281	6,507	3,128	3,377
Percent of population .....	55.3	56.0	55.0	55.7	56.9	58.0	50.1	52.0
Employed .....	48,706	50,334	41,876	43,142	5,386	5,648	2,791	3,077
Agriculture .....	652	666	617	632	22	22	42	47
Nonagricultural industries .....	48,054	49,668	41,259	42,509	5,364	5,626	2,749	3,030
Unemployed .....	3,707	3,324	2,708	2,369	894	858	337	300
Unemployment rate .....	7.1	6.2	6.1	5.2	14.2	13.2	10.8	8.9
Not in labor force .....	42,376	42,195	36,458	36,258	4,752	4,717	3,110	3,119
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	87,567	88,583	75,140	75,845	9,945	10,126	5,591	5,835
Civilian labor force .....	48,589	49,783	41,264	42,164	5,855	6,071	2,893	3,112
Percent of population .....	55.5	56.2	54.9	55.6	58.9	60.0	51.7	53.3
Employed .....	45,556	47,074	39,050	40,242	5,128	5,365	2,615	2,872
Agriculture .....	614	622	580	590	22	20	39	45
Nonagricultural industries .....	44,943	46,453	38,471	39,652	5,106	5,345	2,576	2,827
Unemployed .....	3,032	2,709	2,213	1,922	728	706	278	241
Unemployment rate .....	6.2	5.4	5.4	4.6	12.4	11.6	9.6	7.7
Not in labor force .....	38,979	38,800	33,876	33,681	4,090	4,054	2,698	2,723
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,496	14,606	11,879	11,939	2,137	2,163	1,302	1,332
Civilian labor force .....	7,926	7,988	6,862	6,893	883	899	571	610
Percent of population .....	54.7	54.7	57.8	57.7	41.3	41.6	43.9	45.8
Employed .....	6,472	6,640	5,792	5,898	536	587	430	474
Agriculture .....	258	258	247	246	8	9	27	27
Nonagricultural industries .....	6,215	6,382	5,545	5,652	529	578	403	447
Unemployed .....	1,454	1,347	1,070	995	347	312	141	136
Unemployment rate .....	18.3	16.9	15.6	14.4	39.3	34.7	24.7	22.3
Not in labor force .....	6,570	6,618	5,017	5,045	1,254	1,264	730	722

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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**40. 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 <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	12,344	12,867	7,377	7,651	1,494	1,540	842	819
Civilian labor force .....	8,076	8,541	4,941	5,203	804	827	570	546
Percent of population .....	65.4	66.4	67.0	68.0	53.8	53.7	67.7	66.7
Employed .....	7,219	7,790	4,387	4,690	691	744	533	518
Agriculture .....	329	398	290	351	10	9	6	4
Nonagricultural industries .....	6,890	7,391	4,096	4,339	682	735	527	514
Unemployed .....	857	751	555	514	113	83	36	28
Unemployment rate .....	10.6	8.8	11.2	9.9	14.0	10.1	6.4	5.2
Not in labor force .....	4,268	4,327	2,436	2,448	690	713	272	273
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	6,106	6,371	3,771	3,929	665	669	422	407
Civilian labor force .....	4,948	5,163	3,120	3,251	489	484	331	316
Percent of population .....	81.0	81.0	82.7	82.7	73.5	72.3	78.4	77.6
Employed .....	4,428	4,713	2,778	2,941	423	433	310	300
Agriculture .....	287	351	257	313	8	7	5	3
Nonagricultural industries .....	4,140	4,361	2,521	2,628	416	427	305	297
Unemployed .....	520	451	342	310	65	50	21	16
Unemployment rate .....	10.5	8.7	11.0	9.5	13.4	10.4	6.5	5.1
Not in labor force .....	1,158	1,208	652	678	176	185	91	90
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	5,451	5,700	3,336	3,485	583	595	399	379
Civilian labor force .....	4,612	4,818	2,879	3,005	455	454	320	306
Percent of population .....	84.6	84.5	86.3	86.2	78.0	76.3	80.2	80.7
Employed .....	4,174	4,444	2,596	2,755	399	411	301	291
Agriculture .....	263	327	234	290	7	6	5	3
Nonagricultural industries .....	3,911	4,118	2,362	2,465	392	404	296	288
Unemployed .....	438	374	283	251	57	44	19	15
Unemployment rate .....	9.5	7.8	9.8	8.3	12.5	9.6	5.9	5.0
Not in labor force .....	839	882	457	479	128	141	79	73
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	6,238	6,496	3,605	3,722	829	871	420	412
Civilian labor force .....	3,128	3,377	1,821	1,952	316	343	239	230
Percent of population .....	50.1	52.0	50.5	52.4	38.1	39.3	56.9	55.8
Employed .....	2,791	3,077	1,609	1,748	268	310	224	218
Agriculture .....	42	47	34	38	2	2	1	-
Nonagricultural industries .....	2,749	3,030	1,575	1,711	266	308	223	217
Unemployed .....	337	300	213	204	47	33	15	12
Unemployment rate .....	10.8	8.9	11.7	10.4	15.0	9.6	6.3	5.3
Not in labor force .....	3,110	3,119	1,784	1,770	514	528	181	182
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	5,591	5,835	3,182	3,299	736	783	403	393
Civilian labor force .....	2,893	3,112	1,663	1,779	287	319	231	220
Percent of population .....	51.7	53.3	52.3	53.9	39.0	40.7	57.3	56.0
Employed .....	2,615	2,872	1,491	1,617	249	293	218	210
Agriculture .....	39	45	31	36	2	2	1	-
Nonagricultural industries .....	2,576	2,827	1,460	1,581	247	290	217	209
Unemployed .....	278	241	172	162	38	26	13	10
Unemployment rate .....	9.6	7.7	10.3	9.1	13.1	8.3	5.7	4.5
Not in labor force .....	2,698	2,723	1,519	1,520	449	464	171	173
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	1,302	1,332	859	868	175	162	41	47
Civilian labor force .....	571	610	399	419	62	54	18	20
Percent of population .....	43.9	45.8	46.4	48.3	35.4	33.3	43.9	42.6
Employed .....	430	474	299	316	44	41	14	17
Agriculture .....	27	27	26	25	1	-	-	-
Nonagricultural industries .....	403	447	274	293	43	41	14	17
Unemployed .....	141	136	100	101	18	13	4	3
Unemployment rate .....	24.7	22.3	25.0	24.2	29.5	24.2	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	730	722	460	449	113	109	23	26

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

<sup>2</sup> Data not shown where base is less than 35,000.

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

(In thousands)

Category	Total		White		Black		Hispanic origin	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	109,597	112,440	95,660	97,789	10,814	11,309	7,219	7,790
Men .....	60,892	62,107	53,785	54,647	5,428	5,661	4,428	4,713
Women .....	48,706	50,334	41,876	43,142	5,386	5,648	2,791	3,077
<b>OCCUPATION</b>								
Managerial and professional specialty .....	26,554	27,742	24,134	25,107	1,594	1,712	923	1,018
Executive, administrative, and managerial .....	12,642	13,316	11,649	12,200	658	741	466	509
Professional specialty .....	13,911	14,426	12,485	12,907	936	972	457	509
Technical, sales, and administrative support .....	34,354	35,082	30,497	30,949	2,923	3,099	1,812	1,969
Technicians and related support .....	3,364	3,346	2,953	2,914	277	283	134	130
Sales occupations .....	13,245	13,480	12,168	12,295	750	806	646	713
Administrative support, including clerical .....	17,745	18,256	15,377	15,740	1,896	2,010	1,032	1,126
Service occupations .....	14,680	15,054	11,685	11,916	2,480	2,614	1,298	1,369
Private household .....	981	934	721	703	235	211	127	120
Protective service .....	1,787	1,907	1,487	1,558	268	316	99	111
Service, except private household and protective .....	11,913	12,213	9,478	9,655	1,977	2,087	1,071	1,139
Precision production, craft, and repair .....	13,405	13,568	12,083	12,262	1,009	996	1,031	1,083
Mechanics and repairers .....	4,374	4,445	3,959	4,028	318	324	302	312
Construction trades .....	4,924	5,011	4,497	4,582	349	354	366	387
Other precision production, craft, and repair .....	4,108	4,112	3,627	3,652	342	318	363	384
Operators, fabricators, and laborers .....	17,160	17,486	14,107	14,340	2,583	2,659	1,795	1,890
Machine operators, assemblers, and inspectors .....	7,911	7,994	6,462	6,498	1,167	1,195	956	1,001
Transportation and material moving occupations .....	4,564	4,712	3,847	3,934	641	699	344	360
Handlers, equipment cleaners, helpers, and laborers .....	4,685	4,779	3,798	3,909	776	765	494	528
Construction laborers .....	743	766	619	627	112	123	105	106
Other handlers, equipment cleaners, helpers, and laborers .....	3,942	4,013	3,179	3,282	665	641	389	422
Farming, forestry, and fishing .....	3,444	3,507	3,154	3,214	224	229	360	461
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,547	1,632	1,397	1,467	120	128	292	339
Self-employed workers .....	1,447	1,423	1,395	1,370	33	34	36	54
Unpaid family workers .....	169	153	165	149	2	2	2	5
Nonagricultural industries:								
Wage and salary workers .....	98,299	100,771	85,157	86,983	10,308	10,769	6,484	6,972
Government .....	16,342	16,800	13,364	13,662	2,468	2,590	862	961
Private industries .....	81,957	83,970	71,792	73,321	7,840	8,179	5,622	6,012
Private households .....	1,235	1,208	914	915	291	265	149	143
Other industries .....	80,722	82,762	70,878	72,407	7,549	7,915	5,474	5,869
Self-employed workers .....	7,881	8,201	7,311	7,586	347	369	392	401
Unpaid family workers .....	255	260	235	233	4	7	13	18
<b>FULL- AND PART-TIME STATUS<sup>1</sup></b>								
Full-time schedules .....	88,789	91,251	77,332	79,133	8,875	9,342	5,957	6,469
Part time for economic reasons .....	5,588	5,402	4,523	4,378	904	861	568	579
Part time for noneconomic reasons .....	15,221	15,788	13,806	14,278	1,036	1,106	694	742

<sup>1</sup> 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.

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

(In thousands)

Category	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	7,219	7,790	4,387	4,690	691	744	533	518
Men .....	4,428	4,713	2,778	2,941	423	433	310	300
Women .....	2,791	3,077	1,609	1,748	268	310	224	217
<b>OCCUPATION</b>								
Managerial and professional specialty .....	923	1,018	460	513	98	105	106	115
Executive, administrative, and managerial .....	466	509	236	259	47	51	59	64
Professional specialty .....	457	509	224	254	51	55	47	51
Technical, sales, and administrative support .....	1,812	1,969	1,008	1,068	204	219	180	181
Technicians and related support .....	134	130	71	68	14	11	13	11
Sales occupations .....	646	713	365	382	65	56	69	74
Administrative support, including clerical .....	1,032	1,126	573	618	125	151	98	96
Service occupations .....	1,298	1,369	760	793	132	132	69	61
Private household .....	127	120	68	62	2	1	4	4
Protective service .....	99	111	55	68	18	15	6	6
Service, except private household and protective .....	1,071	1,139	637	663	112	116	59	50
Precision production, craft, and repair .....	1,031	1,083	676	688	87	95	70	67
Mechanics and repairers .....	302	312	194	184	23	36	24	23
Construction trades .....	366	387	258	262	25	26	21	25
Other precision production, craft, and repair .....	363	384	225	242	38	33	25	18
Operators, fabricators, and laborers .....	1,795	1,890	1,171	1,224	159	183	101	88
Machine operators, assemblers, and inspectors .....	956	1,001	595	628	86	96	56	47
Transportation and material moving occupations .....	344	360	226	223	34	40	20	23
Handlers, equipment cleaners, helpers, and laborers .....	494	528	350	374	39	47	26	18
Construction laborers .....	105	106	84	84	5	5	4	2
Other handlers, equipment cleaners, helpers, and laborers .....	389	422	267	290	34	42	21	16
Farming, forestry, and fishing .....	360	461	311	403	13	10	8	6
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	292	339	262	304	9	9	3	1
Self-employed workers .....	36	54	27	42			3	2
Unpaid family workers .....	2	5	1	4				
Nonagricultural industries:								
Wage and salary workers .....	6,484	6,972	3,868	4,116	657	708	480	473
Government .....	862	961	533	598	121	129	39	46
Private industries .....	5,622	6,012	3,335	3,518	537	579	441	427
Private households .....	149	143	84	78	3	1	4	4
Other industries .....	5,474	5,869	3,251	3,440	534	578	437	423
Self-employed workers .....	392	401	220	214	25	27	46	39
Unpaid family workers .....	13	18	8	10	-	-	2	3
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	5,957	6,469	3,579	3,838	591	643	458	446
Part time for economic reasons .....	568	579	404	421	39	34	20	19
Part time for noneconomic reasons .....	694	742	403	431	61	67	55	53

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

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

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

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	1986	1987	1986	1987	1986	1987	1986	1987
Total, 16 years and over .....	109,597	112,440	95,660	97,789	10,814	11,309	7,219	7,790
16 to 19 years .....	6,472	6,640	5,792	5,898	536	587	430	474
16 to 17 years .....	2,622	2,736	2,366	2,468	183	203	146	149
18 to 19 years .....	3,850	3,905	3,406	3,431	353	385	284	325
20 to 24 years .....	13,790	13,524	12,027	11,748	1,429	1,421	1,231	1,273
25 years and over .....	89,335	92,276	77,841	80,143	8,849	9,301	5,558	6,043
25 to 54 years .....	75,011	77,771	65,011	67,241	7,654	8,023	5,008	5,453
55 years and over .....	14,324	14,506	12,830	12,900	1,196	1,277	550	588
Men, 16 years and over .....	60,892	62,107	53,785	54,647	5,428	5,661	4,428	4,713
16 to 19 years .....	3,323	3,361	2,966	2,999	278	304	254	268
16 to 17 years .....	1,352	1,393	1,225	1,252	96	109	82	81
18 to 19 years .....	1,971	1,988	1,741	1,747	182	195	172	188
20 to 24 years .....	7,250	7,058	6,340	6,150	732	728	773	777
25 years and over .....	50,319	51,668	44,478	45,499	4,417	4,629	3,402	3,666
25 to 54 years .....	41,912	43,136	36,853	37,817	3,799	3,957	3,053	3,314
55 years and over .....	8,407	8,532	7,624	7,681	619	671	348	353
Women, 16 years and over .....	48,706	50,334	41,876	43,142	5,386	5,648	2,791	3,077
16 to 19 years .....	3,149	3,260	2,825	2,900	259	283	176	206
16 to 17 years .....	1,270	1,343	1,160	1,216	87	93	64	69
18 to 19 years .....	1,879	1,917	1,665	1,684	171	190	112	137
20 to 24 years .....	6,540	6,466	5,687	5,598	696	693	458	496
25 years and over .....	39,016	40,609	33,363	34,644	4,432	4,672	2,156	2,376
25 to 54 years .....	33,099	34,635	28,158	29,424	3,855	4,066	1,955	2,141
55 years and over .....	5,916	5,974	5,206	5,219	577	606	202	235

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	
	1986	1987	1986	1987	1986	1987	1986	1987
Total, 16 years and over .....	7.0	6.2	6.0	5.3	14.5	13.0	10.6	8.8
16 to 19 years .....	18.3	16.9	15.6	14.4	39.3	34.7	24.7	22.3
16 to 17 years .....	20.2	19.1	17.6	16.7	43.0	39.7	28.1	27.7
18 to 19 years .....	17.0	15.2	14.1	12.7	37.2	31.6	22.9	19.5
20 to 24 years .....	10.7	9.7	8.7	8.0	24.1	21.8	12.9	10.6
25 years and over .....	5.4	4.8	4.8	4.2	10.5	9.5	8.8	7.1
25 to 54 years .....	5.7	5.0	5.0	4.4	11.1	10.1	8.8	7.2
55 years and over .....	3.9	3.3	3.6	3.0	6.2	5.3	7.9	6.1
Men, 16 years and over .....	6.9	6.2	6.0	5.4	14.8	12.7	10.5	8.7
16 to 19 years .....	19.0	17.8	16.3	15.5	39.3	34.4	24.5	22.2
16 to 17 years .....	20.8	20.2	18.4	17.9	41.4	39.0	28.5	28.2
18 to 19 years .....	17.7	16.0	14.7	13.7	38.2	31.6	22.4	19.3
20 to 24 years .....	11.0	9.9	9.2	8.4	23.5	20.3	13.0	10.2
25 years and over .....	5.4	4.8	4.7	4.2	10.9	9.4	8.7	7.2
25 to 54 years .....	5.6	5.0	4.9	4.5	11.4	9.9	8.7	7.3
55 years and over .....	4.1	3.5	3.8	3.2	7.3	6.3	8.2	6.8
Women, 16 years and over .....	7.1	6.2	6.1	5.2	14.2	13.2	10.8	8.9
16 to 19 years .....	17.6	15.9	14.9	13.4	39.2	34.9	25.1	22.4
16 to 17 years .....	19.6	18.0	16.7	15.5	44.6	40.5	27.6	27.1
18 to 19 years .....	16.3	14.3	13.6	11.7	36.1	31.7	23.6	19.9
20 to 24 years .....	10.3	9.4	8.1	7.4	24.7	23.3	12.9	11.4
25 years and over .....	5.5	4.8	4.9	4.1	10.1	9.6	8.8	6.9
25 to 54 years .....	5.9	5.1	5.1	4.3	10.9	10.3	9.1	7.2
55 years and over .....	3.6	3.0	3.4	2.8	5.0	4.3	6.9	4.9

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>DURATION</b>								
Total, 16 years and over .....	8,237	7,425	6,140	5,501	1,840	1,684	857	751
Less than 5 weeks .....	3,448	3,246	2,629	2,468	712	671	391	358
5 to 14 weeks .....	2,557	2,196	1,906	1,621	574	509	264	215
15 weeks and over .....	2,232	1,983	1,605	1,412	554	504	202	178
15 to 26 weeks .....	1,045	943	772	684	235	224	100	93
27 weeks and over .....	1,187	1,040	834	728	319	281	103	86
Average (mean) duration, in weeks .....	15.0	14.5	14.5	14.0	17.1	16.4	13.2	12.7
Median duration, in weeks .....	6.9	6.5	6.6	6.2	7.9	7.6	6.1	5.6
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	41.9	43.7	42.8	44.9	38.7	39.8	45.6	47.6
5 to 14 weeks .....	31.0	29.6	31.0	29.5	31.2	30.2	30.8	28.6
15 weeks and over .....	27.1	26.7	26.1	25.7	30.1	29.9	23.6	23.8
15 to 26 weeks .....	12.7	12.7	12.6	12.4	12.8	13.3	11.7	12.4
27 weeks and over .....	14.4	14.0	13.6	13.2	17.3	16.7	12.0	11.4

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	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	8,237	7,425	6,140	5,501	1,840	1,684	857	751
Job losers .....	4,033	3,566	3,076	2,704	846	761	472	406
On layoff .....	1,090	943	922	782	145	144	108	85
Other job losers .....	2,943	2,623	2,154	1,922	701	617	364	321
Job leavers .....	1,015	965	825	784	161	151	85	83
Reentrants .....	2,160	1,974	1,560	1,401	526	501	186	162
New entrants .....	1,029	920	680	613	306	271	115	99
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	48.9	48.0	50.1	49.1	46.0	45.2	55.0	54.1
On layoff .....	13.2	12.7	15.0	14.2	7.9	8.6	12.6	11.3
Other job losers .....	35.7	35.3	35.1	34.9	38.1	36.6	42.4	42.8
Job leavers .....	12.3	13.0	13.4	14.2	8.8	8.9	9.9	11.1
Reentrants .....	26.2	26.6	25.4	25.5	28.6	29.8	21.7	21.6
New entrants .....	12.5	12.4	11.1	11.1	16.7	16.1	13.4	13.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	3.4	3.0	3.0	2.7	6.7	5.9	5.8	4.8
Job leavers .....	.9	.8	.8	.8	1.3	1.2	1.1	1.0
Reentrants .....	1.8	1.6	1.5	1.4	4.2	3.9	2.3	1.9
New entrants .....	.9	.8	.7	.6	2.4	2.1	1.4	1.2

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.



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							
	1986	1987	Total		Employed		Unemployed			
			1986	1987	1986	1987	Number		Percent of labor force	
							1986	1987	1986	1987
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,746	7,835	7,196	7,244	6,835	6,893	361	351	5.0	4.8
30 to 44 years .....	6,381	6,202	6,097	5,920	5,773	5,622	324	298	5.3	5.0
30 to 34 years .....	1,153	922	1,087	872	1,000	792	87	80	8.0	9.2
35 to 39 years .....	3,041	2,610	2,916	2,495	2,761	2,374	155	121	5.3	4.8
40 to 44 years .....	2,187	2,670	2,094	2,553	2,012	2,456	82	97	3.9	3.8
45 years and over .....	1,365	1,633	1,099	1,324	1,062	1,271	37	53	3.4	4.0
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	18,395	19,454	17,406	18,416	16,455	17,549	951	867	5.5	4.7
30 to 34 years .....	8,516	8,843	8,098	8,431	7,638	8,006	460	425	5.7	5.0
35 to 39 years .....	5,683	6,221	5,378	5,881	5,093	5,623	285	258	5.3	4.4
40 to 44 years .....	4,196	4,390	3,930	4,104	3,724	3,920	206	184	5.2	4.5

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

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**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	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL, 30 to 44 years</b>												
Civilian noninstitutional population .....	5,675	5,500	603	588	282	286	15,812	16,732	1,857	1,967	1,596	1,744
Civilian labor force .....	5,446	5,273	558	539	263	266	15,111	15,988	1,635	1,747	1,481	1,829
Employed .....	5,186	5,035	502	489	241	248	14,395	15,330	1,435	1,574	1,347	1,517
Unemployed .....	259	238	56	50	23	18	716	658	200	173	134	112
Unemployment rate .....	4.8	4.5	10.0	9.3	8.6	6.9	4.7	4.1	12.2	9.9	9.1	6.9
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	988	772	142	124	69	61	7,337	7,644	868	900	725	773
Civilian labor force .....	942	734	126	114	62	56	7,052	7,351	768	814	673	727
Employed .....	875	674	107	97	54	49	6,701	7,027	673	728	610	677
Unemployed .....	66	60	19	17	8	7	351	324	94	87	63	50
Unemployment rate .....	7.1	8.2	15.0	15.1	12.8	12.3	5.0	4.4	12.3	10.6	9.3	6.9
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	2,709	2,305	286	261	132	128	4,888	5,325	558	619	491	540
Civilian labor force .....	2,607	2,213	266	240	122	121	4,867	5,081	496	548	456	503
Employed .....	2,484	2,117	239	218	110	113	4,457	4,889	432	495	412	467
Unemployed .....	122	95	27	22	12	8	210	192	64	53	44	36
Unemployment rate .....	4.7	4.3	10.3	9.2	9.7	6.5	4.5	3.8	12.9	9.7	9.7	7.2
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	1,978	2,423	175	203	81	96	3,586	3,763	431	448	379	432
Civilian labor force .....	1,897	2,326	166	184	79	89	3,392	3,555	371	385	352	399
Employed .....	1,827	2,243	157	174	76	86	3,237	3,414	329	351	325	373
Unemployed .....	71	83	10	11	3	4	155	141	42	34	27	26
Unemployment rate .....	3.7	3.6	5.7	5.8	3.5	4.0	4.6	4.0	11.2	8.7	7.7	6.5

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 30 to 44 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.

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	1986					1987				
	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
<b>TOTAL</b>										
Total families .....	63,121	6,163	29.7	70.3	61.1	64,004	5,587	29.1	70.9	61.6
With children under 18 years of age .....	31,521	3,697	32.2	67.8	58.5	31,683	3,360	31.4	68.6	59.5
Married-couple families .....	50,235	4,308	20.9	79.1	69.9	50,679	3,882	19.8	80.2	71.0
With children under 18 years of age .....	24,207	2,631	20.5	79.5	70.0	24,215	2,360	18.6	81.4	71.9
Families maintained by women .....	10,364	1,503	52.1	47.9	38.3	10,614	1,375	52.8	47.2	37.2
With children under 18 years of age .....	6,327	927	62.1	37.9	28.7	6,433	870	62.5	37.5	28.7
Families maintained by men .....	2,521	352	42.0	58.0	50.6	2,711	330	39.1	60.9	53.0
With children under 18 years of age .....	987	139	55.4	44.6	38.8	1,035	130	53.8	46.2	40.0
<b>White</b>										
Total families .....	54,533	4,694	27.2	72.8	63.4	55,170	4,218	26.0	74.0	64.4
With children under 18 years of age .....	26,406	2,782	28.9	71.1	61.5	26,493	2,495	27.1	72.9	63.4
Married-couple families .....	45,405	3,593	21.1	78.9	69.5	45,754	3,234	20.0	80.0	70.7
With children under 18 years of age .....	21,459	2,168	20.8	79.2	69.6	21,473	1,948	18.7	81.3	71.7
Families maintained by women .....	7,141	849	48.9	51.1	40.7	7,292	748	48.1	51.9	40.6
With children under 18 years of age .....	4,159	506	58.3	41.7	31.4	4,206	452	57.1	42.9	32.5
Families maintained by men .....	1,988	251	41.3	58.7	51.6	2,124	236	38.7	61.3	54.0
With children under 18 years of age .....	788	108	54.6	45.4	39.8	814	95	54.2	45.8	39.6
<b>Black</b>										
Total families .....	6,908	1,278	38.9	61.1	52.6	7,076	1,186	40.6	59.4	51.0
With children under 18 years of age .....	4,080	792	43.9	56.1	48.0	4,165	747	46.2	53.8	46.2
Married-couple families .....	3,513	571	19.1	80.9	72.3	3,543	513	19.1	80.9	72.1
With children under 18 years of age .....	1,902	364	18.1	81.9	73.4	1,911	320	17.2	82.8	74.1
Families maintained by women .....	2,961	619	56.3	43.7	35.3	3,052	589	59.3	40.7	32.6
With children under 18 years of age .....	2,012	399	66.7	33.3	25.8	2,072	397	69.3	30.7	24.2
Families maintained by men .....	435	88	44.9	55.1	47.2	481	84	39.8	60.2	51.8
With children under 18 years of age .....	166	28	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	183	29	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total families .....	4,225	627	34.4	65.6	56.0	4,413	578	30.6	69.4	59.9
With children under 18 years of age .....	2,753	428	37.4	62.6	53.3	2,868	384	34.1	65.9	56.0
Married-couple families .....	2,961	443	27.1	72.9	62.5	3,095	410	24.6	75.4	65.9
With children under 18 years of age .....	1,955	321	27.7	72.3	62.9	2,041	287	25.4	74.6	64.5
Families maintained by women .....	1,000	136	56.6	43.4	34.6	1,030	124	49.6	50.4	40.0
With children under 18 years of age .....	704	87	67.4	32.6	23.3	720	78	60.3	39.7	29.5
Families maintained by men .....	264	48	37.5	62.5	54.2	288	44	34.1	65.9	56.8
With children under 18 years of age .....	94	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	108	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> 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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**50. Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members**

(Numbers in thousands)

Family relationship, race, and Hispanic origin	1986				1987			
	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
<b>TOTAL</b>								
Total unemployed in families <sup>1</sup> .....	6,826	32.0	68.0	58.8	6,130	31.3	68.7	59.4
Husbands .....	1,648	40.7	59.3	45.1	1,482	38.3	61.7	47.3
With children under 18 years of age .....	1,064	44.5	55.5	40.6	928	41.3	58.7	43.3
Wives .....	1,357	17.4	82.6	75.4	1,171	16.8	83.2	77.7
With children under 18 years of age .....	864	15.9	84.1	76.6	761	15.0	85.0	77.7
Relatives in married-couple families .....	1,734	12.0	88.0	82.3	1,594	11.7	88.3	82.5
Women who maintain families .....	631	83.2	16.8	9.8	611	84.0	16.0	9.8
With children under 18 years of age .....	538	89.8	10.2	4.7	523	90.4	9.6	4.8
Relatives in families maintained by women .....	1,065	34.9	65.1	53.9	921	33.4	66.6	54.1
Men who maintain families .....	156	70.6	29.4	21.5	142	63.8	36.2	26.3
With children under 18 years of age .....	82	87.8	12.2	6.3	73	87.9	12.1	6.4
Relatives in families maintained by men .....	235	27.5	72.5	65.3	209	27.2	72.8	66.0
<b>White</b>								
Total unemployed in families <sup>1</sup> .....	5,083	29.7	70.3	61.0	4,537	28.4	71.6	62.0
Husbands .....	1,377	41.6	58.4	43.7	1,254	39.0	61.0	45.7
With children under 18 years of age .....	870	45.7	54.3	38.8	772	42.5	57.5	41.1
Wives .....	1,139	16.9	83.1	76.1	974	16.4	83.6	77.0
With children under 18 years of age .....	711	15.6	84.4	77.1	624	14.2	85.8	78.8
Relatives in married-couple families .....	1,385	11.4	88.6	82.7	1,264	10.9	89.1	83.5
Women who maintain families .....	350	78.7	21.3	12.1	313	79.7	20.3	12.7
With children under 18 years of age .....	289	87.0	13.0	5.4	259	87.6	12.4	6.5
Relatives in families maintained by women .....	559	33.7	66.3	55.4	482	30.4	69.6	56.4
Men who maintain families .....	113	70.9	29.1	21.0	102	64.0	36.0	25.7
With children under 18 years of age .....	62	89.3	10.7	5.5	53	90.2	9.8	4.2
Relatives in families maintained by men .....	159	25.3	74.7	68.2	147	27.3	72.7	67.2
<b>Black</b>								
Total unemployed in families <sup>1</sup> .....	1,527	39.8	60.2	51.7	1,390	41.3	58.7	50.4
Husbands .....	207	35.7	64.3	53.0	173	33.7	66.3	55.7
With children under 18 years of age .....	147	38.3	61.7	50.0	115	34.1	65.9	54.8
Wives .....	170	18.6	81.4	71.9	158	19.6	80.4	72.8
With children under 18 years of age .....	119	16.7	83.3	74.6	112	19.7	80.3	72.8
Relatives in married-couple families .....	297	14.5	85.5	80.1	276	15.8	84.2	77.5
Women who maintain families .....	267	89.2	10.8	6.7	283	89.4	10.6	6.5
With children under 18 years of age .....	238	93.0	7.0	4.0	252	93.6	6.4	3.3
Relatives in families maintained by women .....	482	35.8	64.2	52.8	412	37.1	62.9	51.7
Men who maintain families .....	38	70.1	29.9	22.5	34	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	17	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	16	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	66	33.1	66.9	59.0	54	26.4	73.6	63.7
<b>Hispanic origin</b>								
Total unemployed in families <sup>1</sup> .....	728	36.6	63.4	54.2	642	32.5	67.5	58.1
Husbands .....	194	52.1	47.9	37.8	177	46.8	53.2	41.6
With children under 18 years of age .....	147	55.8	44.2	34.6	137	49.0	51.0	38.4
Wives .....	127	19.1	80.9	69.6	120	18.5	81.5	73.8
With children under 18 years of age .....	96	19.2	80.8	70.7	80	17.9	82.1	73.4
Relatives in married-couple families .....	192	13.9	86.1	78.0	166	11.1	88.9	81.2
Women who maintain families .....	63	77.3	22.7	13.9	51	75.4	24.6	17.0
With children under 18 years of age .....	50	86.9	13.1	5.0	45	82.1	17.9	11.7
Relatives in families maintained by women .....	97	46.6	53.4	45.6	83	35.3	64.7	52.3
Men who maintain families .....	25	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	18	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	14	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	11	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	32	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	26	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> 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.

<sup>2</sup> 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.

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

(Numbers in thousands)

Family relationship, race, and Hispanic origin	1986				1987			
	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
<b>TOTAL</b>								
Total employed in families <sup>1</sup> .....	89,478	23.5	76.5	65.2	91,625	22.8	77.2	65.9
Husbands .....	37,775	31.4	68.6	50.4	38,288	30.0	70.0	51.7
With children under 18 years of age .....	22,078	33.5	66.5	44.9	22,235	31.7	68.3	46.7
Wives .....	26,247	9.4	90.6	85.7	27,207	8.9	91.1	86.2
With children under 18 years of age .....	14,288	5.6	94.4	90.2	14,811	5.2	94.8	90.7
Relatives in married-couple families .....	12,084	6.6	93.4	89.4	12,098	6.8	93.2	89.1
Women who maintain families .....	5,763	62.3	37.7	24.9	5,983	62.4	37.6	24.8
With children under 18 years of age .....	3,821	77.4	22.6	10.8	3,935	78.5	21.5	10.4
Relatives in families maintained by women .....	4,483	24.6	75.4	64.8	4,626	24.7	75.3	65.1
Men who maintain families .....	1,777	54.2	45.8	34.7	1,923	53.0	47.0	35.6
With children under 18 years of age .....	804	78.8	21.2	11.2	851	80.0	20.0	9.8
Relatives in families maintained by men .....	1,349	17.7	82.3	74.8	1,500	17.3	82.7	75.5
<b>White</b>								
Total employed in families <sup>1</sup> .....	78,406	22.9	77.1	65.4	80,036	22.2	77.8	66.0
Husbands .....	34,239	31.8	68.2	49.3	34,642	30.5	69.5	50.5
With children under 18 years of age .....	19,744	34.1	65.9	43.2	19,898	32.4	67.6	45.0
Wives .....	23,440	9.0	91.0	86.2	24,260	8.5	91.5	86.6
With children under 18 years of age .....	12,544	5.1	94.9	90.8	12,999	4.6	95.4	91.4
Relatives in married-couple families .....	10,771	6.4	93.6	89.6	10,717	6.6	93.4	89.4
Women who maintain families .....	4,145	59.7	40.3	26.2	4,278	60.2	39.8	25.7
With children under 18 years of age .....	2,706	75.6	24.4	11.0	2,781	77.2	22.8	10.1
Relatives in families maintained by women .....	3,298	24.5	75.5	64.8	3,414	25.3	74.7	64.4
Men who maintain families .....	1,435	53.1	46.9	35.4	1,544	52.7	47.3	35.3
With children under 18 years of age .....	655	77.6	22.4	11.6	686	79.4	20.6	9.5
Relatives in families maintained by men .....	1,078	17.4	82.6	75.7	1,182	16.3	83.7	76.5
<b>Black</b>								
Total employed in families <sup>1</sup> .....	8,459	29.9	70.1	61.3	8,820	28.8	71.2	62.7
Husbands .....	2,510	25.7	74.3	62.4	2,570	24.1	75.9	64.2
With children under 18 years of age .....	1,618	25.2	74.8	62.7	1,641	23.7	76.3	64.5
Wives .....	1,998	14.1	85.9	80.1	2,092	12.9	87.1	81.5
With children under 18 years of age .....	1,238	9.8	90.2	85.0	1,286	9.5	90.5	85.2
Relatives in married-couple families .....	942	9.3	90.7	85.9	974	8.9	91.1	86.2
Women who maintain families .....	1,472	70.3	29.7	20.8	1,554	69.3	30.7	21.9
With children under 18 years of age .....	1,029	82.5	17.5	9.9	1,068	82.0	18.0	10.8
Relatives in families maintained by women .....	1,053	25.7	74.3	64.4	1,081	23.6	76.4	66.7
Men who maintain families .....	274	61.0	39.0	30.3	303	56.9	43.1	34.9
With children under 18 years of age .....	126	85.3	14.7	8.6	139	83.9	16.1	10.1
Relatives in families maintained by men .....	210	20.4	79.6	69.3	247	23.0	77.0	69.4
<b>Hispanic origin</b>								
Total employed in families <sup>1</sup> .....	5,830	26.8	73.2	63.8	6,278	26.2	73.8	64.1
Husbands .....	2,328	39.0	61.0	48.2	2,458	37.3	62.7	48.9
With children under 18 years of age .....	1,667	42.2	57.8	44.1	1,778	39.3	60.7	45.8
Wives .....	1,403	9.5	90.5	84.1	1,544	8.4	91.6	85.7
With children under 18 years of age .....	927	8.4	91.6	85.0	1,047	7.2	92.8	87.0
Relatives in married-couple families .....	877	5.9	94.1	88.1	954	7.2	92.8	86.4
Women who maintain families .....	438	61.4	38.6	29.1	481	64.0	36.0	25.9
With children under 18 years of age .....	304	75.3	24.7	16.5	326	78.8	21.2	13.0
Relatives in families maintained by women .....	409	22.6	77.4	67.4	421	23.1	76.9	66.5
Men who maintain families .....	195	43.8	56.2	48.1	223	48.3	51.7	45.5
With children under 18 years of age .....	73	75.5	24.5	19.9	84	80.4	19.6	15.5
Relatives in families maintained by men .....	179	11.8	88.2	81.4	196	8.4	91.6	84.6

<sup>1</sup> 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.

**HOUSEHOLD DATA  
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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 (in thousands)		Median weekly earnings	
	1986	1987	1986	1987
<b>TOTAL</b>				
Total families with earners <sup>1</sup> .....	42,101	42,733	\$543	\$572
Married-couple families .....	33,569	33,844	606	637
One earner .....	13,049	12,668	393	405
Husband .....	9,979	9,640	459	477
Wife .....	2,351	2,272	223	230
Other family member .....	719	757	210	212
Two or more earners .....	20,520	21,176	744	776
Husband and wife .....	17,744	18,473	759	789
Husband and other family member(s) .....	2,056	1,996	720	749
Wife and other family member(s) .....	532	560	480	512
Other family members only .....	188	147	469	501
Families maintained by women .....	6,718	6,963	307	317
One earner .....	4,607	4,702	242	254
Householder .....	3,606	3,675	251	263
Other family member .....	1,001	1,027	205	215
Two or more earners .....	2,110	2,260	499	514
Families maintained by men .....	1,814	1,926	444	478
One earner .....	1,133	1,144	351	353
Two or more earners .....	681	782	637	675
<b>White</b>				
Total families with earners <sup>1</sup> .....	36,072	36,555	566	592
Married-couple families .....	29,865	30,095	615	647
One earner .....	11,698	11,385	405	416
Husband .....	9,077	8,784	472	485
Wife .....	1,996	1,946	225	231
Two or more earners .....	18,167	18,710	755	785
Husband and wife .....	15,689	16,332	769	797
Families maintained by women .....	4,786	4,959	320	329
Families maintained by men .....	1,420	1,501	476	492
<b>Black</b>				
Total families with earners <sup>1</sup> .....	4,810	4,942	391	412
Married-couple families .....	2,734	2,768	503	529
One earner .....	978	924	267	289
Husband .....	615	581	307	335
Wife .....	289	264	209	215
Two or more earners .....	1,755	1,843	645	675
Husband and wife .....	1,531	1,616	661	695
Families maintained by women .....	1,756	1,822	267	284
Families maintained by men .....	320	352	348	383
<b>Hispanic origin</b>				
Total families with earners <sup>1</sup> .....	3,017	3,219	412	425
Married-couple families .....	2,272	2,411	459	473
One earner .....	1,006	1,032	289	292
Husband .....	828	838	308	314
Wife .....	127	122	202	209
Two or more earners .....	1,266	1,379	603	615
Husband and wife .....	1,009	1,110	621	630
Families maintained by women .....	538	575	273	285
Families maintained by men .....	207	234	380	418

<sup>1</sup> 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.

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 (in thousands)		Median weekly earnings	
	1986	1987	1986	1987
Married-couple families <sup>1</sup> .....	3,027	2,697	\$387	\$411
Husband unemployed .....	973	874	238	248
Wife only earner .....	751	668	221	229
Wife and other earner(s) .....	137	126	412	456
Other earner(s) only .....	85	80	173	180
Wife unemployed .....	1,012	857	392	410
Husband only earner .....	849	726	368	389
Husband and other earner(s) .....	136	115	819	662
Other earner(s) only .....	27	16	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	1,043	965	629	658
Husband or wife earner .....	446	385	462	507
Both husband and wife earners .....	559	534	787	794
Other combinations of earners .....	38	46	( <sup>2</sup> )	( <sup>2</sup> )
Families maintained by women <sup>1</sup> .....	662	593	278	273
Householder unemployed .....	97	87	168	195
Other member(s) unemployed .....	565	506	300	288
Families maintained by men <sup>1</sup> .....	190	184	367	357

<sup>1</sup> 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.

<sup>2</sup> Data not shown where base is less than 50,000.

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1986	1987	1986	1987
<b>SEX AND AGE</b>				
Total, 16 years and over .....	78,727	80,836	\$358	\$373
Men, 16 years and over .....	46,233	47,162	419	433
16 to 24 years .....	6,822	6,726	245	257
25 years and over .....	39,410	40,436	462	477
Women, 16 years and over .....	32,494	33,674	290	303
16 to 24 years .....	5,513	5,526	218	226
25 years and over .....	26,981	28,148	308	321
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	30,491	30,932	475	487
Wives .....	16,820	17,496	299	313
Women who maintain families .....	4,512	4,709	290	300
Men who maintain families .....	1,411	1,508	397	399
Other persons in families:				
Men .....	6,239	6,385	247	263
Women .....	4,328	4,469	222	235
All other men <sup>1</sup> .....	8,085	8,333	395	405
All other women <sup>1</sup> .....	6,841	7,004	316	326
<b>RACE AND HISPANIC ORIGIN</b>				
White .....	67,779	69,358	370	383
Men .....	40,471	41,150	433	450
Women .....	27,308	28,208	294	307
Black .....	8,654	9,050	291	301
Men .....	4,464	4,679	318	326
Women .....	4,190	4,371	263	275
Hispanic origin .....	5,630	6,093	277	284
Men .....	3,622	3,874	299	306
Women .....	2,008	2,219	241	251

<sup>1</sup> The majority of these persons are living alone or with nonrelatives. Also included are persons in married-couple families where the husband or wife 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.



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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1986	1987	1986	1987
<b>SEX AND AGE</b>				
Total, 16 years and over .....	18,176	18,467	\$99	\$101
Men, 16 years and over .....	5,709	5,776	93	95
16 to 24 years .....	3,326	3,292	77	78
25 years and over .....	2,384	2,484	121	123
Women, 16 years and over .....	12,466	12,691	101	104
16 to 24 years .....	4,002	4,009	74	76
25 years and over .....	8,465	8,682	115	119
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	1,471	1,544	123	128
Wives .....	6,563	6,704	117	122
Women who maintain families .....	977	989	108	110
Men who maintain families .....	116	126	128	117
Other persons in families:				
Men .....	3,162	3,179	76	78
Women .....	3,380	3,427	70	71
All other men <sup>1</sup> .....	959	925	113	112
All other women <sup>1</sup> .....	1,546	1,572	103	107
<b>RACE AND HISPANIC ORIGIN</b>				
White .....	15,965	16,167	99	102
Men .....	4,863	4,929	93	95
Women .....	11,102	11,238	102	106
Black .....	1,727	1,788	93	92
Men .....	660	650	92	91
Women .....	1,067	1,138	93	93
Hispanic origin .....	1,064	1,121	103	103
Men .....	424	441	107	104
Women .....	639	680	100	101

<sup>1</sup> The majority of these persons are living alone or with nonrelatives. Also included are persons in married-couple families where the husband or wife 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  
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**56. 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	
	1986	1987	1986	1987
<b>TOTAL</b>				
Managerial and professional specialty .....	20,095	20,894	\$505	\$522
Executive, administrative, and managerial .....	9,777	10,216	511	530
Professional specialty .....	10,317	10,678	500	518
Technical, sales, and administrative support .....	24,060	24,680	320	332
Technicians and related support .....	2,821	2,797	416	429
Sales occupations .....	7,395	7,657	351	376
Administrative support, including clerical .....	13,844	14,226	300	308
Service occupations .....	8,061	8,314	223	234
Private household .....	334	321	121	133
Protective service .....	1,589	1,667	392	414
Service, except private household and protective .....	6,138	6,326	209	217
Precision production, craft, and repair .....	10,851	10,922	406	419
Mechanics and repairers .....	3,723	3,812	414	424
Construction trades .....	3,489	3,586	401	415
Other precision production, craft, and repair .....	3,659	3,595	407	418
Operators, fabricators, and laborers .....	14,342	14,642	301	308
Machine operators, assemblers, and inspectors .....	7,254	7,385	293	295
Transportation and material moving occupations .....	3,684	3,799	366	382
Handlers, equipment cleaners, helpers, and laborers .....	3,404	3,459	263	277
Farming, forestry, and fishing .....	1,318	1,313	217	217
<b>Men</b>				
Managerial and professional specialty .....	11,333	11,555	808	636
Executive, administrative, and managerial .....	5,980	8,117	620	647
Professional specialty .....	5,353	5,438	599	625
Technical, sales, and administrative support .....	8,977	9,241	437	453
Technicians and related support .....	1,587	1,533	490	500
Sales occupations .....	4,373	4,580	447	479
Administrative support, including clerical .....	3,006	3,128	403	402
Service occupations .....	3,987	4,143	284	296
Private household .....	14	16	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,433	1,481	402	427
Service, except private household and protective .....	2,540	2,648	239	251
Precision production, craft, and repair .....	9,973	10,125	418	431
Mechanics and repairers .....	3,588	3,681	413	423
Construction trades .....	3,413	3,548	401	418
Other precision production, craft, and repair .....	2,973	2,896	448	463
Operators, fabricators, and laborers .....	10,784	10,926	332	344
Machine operators, assemblers, and inspectors .....	4,401	4,423	354	353
Transportation and material moving occupations .....	3,494	3,612	372	386
Handlers, equipment cleaners, helpers, and laborers .....	2,890	2,890	271	289
Farming, forestry, and fishing .....	1,178	1,171	220	219
<b>Women</b>				
Managerial and professional specialty .....	8,762	9,339	414	441
Executive, administrative, and managerial .....	3,797	4,099	395	416
Professional specialty .....	4,965	5,240	428	458
Technical, sales, and administrative support .....	15,083	15,439	282	293
Technicians and related support .....	1,224	1,264	343	368
Sales occupations .....	3,021	3,077	239	246
Administrative support, including clerical .....	10,838	11,098	284	294
Service occupations .....	4,074	4,171	191	199
Private household .....	320	305	119	130
Protective service .....	156	186	292	314
Service, except private household and protective .....	3,598	3,680	195	201
Precision production, craft, and repair .....	878	867	277	302
Mechanics and repairers .....	136	131	431	456
Construction trades .....	56	38	333	( <sup>1</sup> )
Other precision production, craft, and repair .....	686	699	258	286
Operators, fabricators, and laborers .....	3,558	3,716	225	231
Machine operators, assemblers, and inspectors .....	2,853	2,962	223	227
Transportation and material moving occupations .....	190	186	287	299
Handlers, equipment cleaners, helpers, and laborers .....	515	568	228	233
Farming, forestry, and fishing .....	140	142	187	191

<sup>1</sup> Data not shown where base is less than 50,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
ANNUAL AVERAGES**

**57. 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					
	1986	1987	Total		Central cities		Suburbs	
			1986	1987	1986	1987	1986	1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	180,587	182,753	139,941	142,319	56,780	56,993	83,161	85,325
Civilian labor force .....	117,834	119,865	92,664	94,764	36,385	36,714	56,279	58,050
Percent of population .....	65.3	65.6	66.2	66.6	64.1	64.4	67.7	68.0
Employed .....	109,597	112,440	86,508	89,138	33,335	33,975	53,173	55,163
Unemployed .....	8,237	7,425	6,157	5,625	3,050	2,739	3,106	2,887
Unemployment rate .....	7.0	6.2	6.6	5.9	8.4	7.5	5.5	5.0
Not in labor force .....	62,752	62,888	47,276	47,555	20,395	20,280	26,881	27,275
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	78,523	79,565	60,780	61,907	24,204	24,412	36,576	37,495
Civilian labor force .....	61,320	62,095	48,080	48,963	18,587	18,738	29,492	30,225
Percent of population .....	78.1	78.0	79.1	79.1	76.8	76.8	80.6	80.6
Employed .....	57,569	58,726	45,282	46,407	17,160	17,460	28,121	28,947
Unemployed .....	3,751	3,369	2,798	2,556	1,427	1,277	1,371	1,278
Unemployment rate .....	6.1	5.4	5.8	5.2	7.7	6.8	4.6	4.2
Not in labor force .....	17,203	17,470	12,700	12,945	5,617	5,675	7,083	7,270
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	87,567	88,583	67,980	69,087	28,229	28,302	39,751	40,785
Civilian labor force .....	48,589	49,783	38,438	39,553	15,602	15,798	22,835	23,755
Percent of population .....	55.5	56.2	56.5	57.3	55.3	55.8	57.4	58.2
Employed .....	45,556	47,074	36,188	37,490	14,498	14,783	21,690	22,706
Unemployed .....	3,032	2,709	2,250	2,063	1,105	1,015	1,145	1,048
Unemployment rate .....	6.2	5.4	5.9	5.2	7.1	6.4	5.0	4.4
Not in labor force .....	38,979	38,800	29,543	29,535	12,627	12,504	16,916	17,031
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,496	14,606	11,181	11,324	4,347	4,279	6,834	7,045
Civilian labor force .....	7,926	7,988	6,147	6,248	2,195	2,178	3,952	4,070
Percent of population .....	54.7	54.7	55.0	55.2	50.5	50.9	57.8	57.8
Employed .....	6,472	6,640	5,038	5,242	1,677	1,732	3,361	3,510
Unemployed .....	1,454	1,347	1,109	1,007	519	446	590	560
Unemployment rate .....	18.3	16.9	18.0	16.1	23.6	20.5	14.9	13.8
Not in labor force .....	6,570	6,618	5,034	5,075	2,151	2,101	2,882	2,974
<b>White</b>								
Civilian noninstitutional population .....	155,432	156,958	118,904	120,750	42,657	42,719	76,247	78,031
Civilian labor force .....	101,801	103,290	79,033	80,681	27,607	27,787	51,426	52,894
Percent of population .....	65.5	65.8	66.5	66.8	64.7	65.0	67.4	67.8
Employed .....	95,660	97,789	74,592	76,631	25,824	26,184	48,768	50,448
Unemployed .....	6,140	5,501	4,441	4,049	1,783	1,603	2,658	2,446
Unemployment rate .....	6.0	5.3	5.6	5.0	6.5	5.8	5.2	4.6
Not in labor force .....	53,631	53,669	39,871	40,069	15,050	14,932	24,821	25,137
<b>Black</b>								
Civilian noninstitutional population .....	19,989	20,352	16,620	16,862	11,872	11,889	4,748	4,973
Civilian labor force .....	12,654	12,993	10,682	10,926	7,326	7,384	3,356	3,543
Percent of population .....	63.3	63.8	64.3	64.8	61.7	62.1	70.7	71.2
Employed .....	10,814	11,309	9,156	9,531	6,162	6,348	2,994	3,183
Unemployed .....	1,840	1,684	1,526	1,396	1,164	1,036	361	360
Unemployment rate .....	14.5	13.0	14.3	12.8	15.9	14.0	10.8	10.2
Not in labor force .....	7,335	7,359	5,938	5,936	4,546	4,505	1,392	1,431
<b>Hispanic origin</b>								
Civilian noninstitutional population .....	12,344	12,867	11,386	11,934	6,694	6,900	4,692	5,033
Civilian labor force .....	8,076	8,541	7,458	7,930	4,243	4,417	3,214	3,513
Percent of population .....	65.4	66.4	65.5	66.4	63.4	64.0	68.5	69.8
Employed .....	7,219	7,790	6,686	7,256	3,760	3,994	2,926	3,262
Unemployed .....	857	751	772	674	483	423	288	251
Unemployment rate .....	10.6	8.8	10.3	8.5	11.4	9.6	9.0	7.1
Not in labor force .....	4,268	4,327	3,928	4,004	2,451	2,483	1,477	1,520

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
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**57. 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		1986	1987	1986	1987
	1986	1987	1986	1987	1986	1987				
<b>TOTAL</b>										
Civilian noninstitutional population .....	40,646	40,434	3,006	2,880	37,640	37,554	133,177	134,575	47,409	48,178
Civilian labor force .....	25,171	25,101	2,079	2,002	23,092	23,099	87,394	88,812	30,441	31,053
Percent of population .....	61.9	62.1	69.2	69.5	61.4	61.5	65.6	66.0	64.2	64.5
Employed .....	23,091	23,302	2,018	1,953	21,073	21,349	81,272	83,271	28,327	29,170
Unemployed .....	2,080	1,799	61	49	2,019	1,750	6,122	5,541	2,114	1,884
Unemployment rate .....	8.3	7.2	2.9	2.5	8.7	7.6	7.0	6.2	6.9	6.1
Not in labor force .....	15,475	15,332	927	878	14,548	14,455	45,783	45,763	16,968	17,125
<b>Men, 20 years and over</b>										
Civilian noninstitutional population .....	17,736	17,646	1,437	1,367	16,299	16,279	57,304	57,947	21,212	21,606
Civilian labor force .....	13,234	13,126	1,221	1,152	12,013	11,974	44,936	45,430	16,378	16,659
Percent of population .....	74.6	74.4	85.0	84.3	73.7	73.6	78.4	78.4	77.2	77.1
Employed .....	12,282	12,313	1,200	1,133	11,082	11,180	42,174	42,938	15,390	15,782
Unemployed .....	952	813	21	19	931	794	2,762	2,492	988	877
Unemployment rate .....	7.2	6.2	1.8	1.6	7.7	6.6	6.1	5.5	6.0	5.3
Not in labor force .....	4,502	4,519	215	215	4,286	4,305	12,368	12,517	4,834	4,947
<b>Women, 20 years and over</b>										
Civilian noninstitutional population .....	19,595	19,506	1,321	1,269	18,274	18,237	65,398	66,109	22,177	22,485
Civilian labor force .....	10,158	10,236	708	704	9,449	9,532	36,698	37,591	11,897	12,198
Percent of population .....	51.8	52.5	53.6	55.5	51.7	52.3	56.1	56.9	53.6	54.2
Employed .....	9,375	9,591	683	686	8,691	8,905	34,433	35,544	11,129	11,536
Unemployed .....	783	645	25	18	758	627	2,265	2,047	768	662
Unemployment rate .....	7.7	6.3	3.5	2.6	8.0	6.6	6.2	5.4	6.5	5.4
Not in labor force .....	9,437	9,270	612	565	8,825	8,705	28,700	28,518	10,280	10,287
<b>Both sexes, 16 to 19 years</b>										
Civilian noninstitutional population .....	3,315	3,282	248	244	3,067	3,038	10,475	10,519	4,021	4,086
Civilian labor force .....	1,779	1,739	149	146	1,630	1,594	5,760	5,791	2,166	2,196
Percent of population .....	53.7	53.0	60.0	59.8	53.1	52.4	55.0	55.1	53.9	53.7
Employed .....	1,434	1,398	135	134	1,300	1,265	4,665	4,789	1,807	1,851
Unemployed .....	345	341	15	12	330	329	1,095	1,003	359	345
Unemployment rate .....	19.4	19.6	9.7	8.2	20.3	20.6	19.0	17.3	16.6	15.7
Not in labor force .....	1,536	1,543	99	98	1,437	1,445	4,715	4,728	1,855	1,890
<b>White</b>										
Civilian noninstitutional population .....	36,528	36,208	2,927	2,790	33,601	33,418	111,553	112,376	43,879	44,582
Civilian labor force .....	22,769	22,609	2,033	1,944	20,736	20,665	73,480	74,425	28,322	28,864
Percent of population .....	62.3	62.4	69.5	69.7	61.7	61.8	65.9	66.2	64.5	64.7
Employed .....	21,069	21,157	1,977	1,901	19,092	19,257	69,160	70,538	26,501	27,251
Unemployed .....	1,699	1,451	56	43	1,644	1,408	4,320	3,887	1,820	1,614
Unemployment rate .....	7.5	6.4	2.7	2.2	7.9	6.8	5.9	5.2	6.4	5.6
Not in labor force .....	13,760	13,600	894	846	12,866	12,753	38,074	37,951	15,557	15,718
<b>Black</b>										
Civilian noninstitutional population .....	3,369	3,489	67	77	3,302	3,412	17,178	17,475	2,811	2,876
Civilian labor force .....	1,973	2,067	38	49	1,935	2,017	10,969	11,249	1,685	1,744
Percent of population .....	58.5	59.2	56.1	64.0	58.6	59.1	63.9	64.4	59.9	60.6
Employed .....	1,659	1,778	34	44	1,625	1,734	9,362	9,777	1,452	1,532
Unemployed .....	314	289	4	5	310	283	1,607	1,472	233	212
Unemployment rate .....	15.9	14.0	11.1	11.0	16.0	14.0	14.6	13.1	13.8	12.2
Not in labor force .....	1,397	1,423	30	28	1,367	1,395	6,209	6,226	1,126	1,132
<b>Hispanic origin</b>										
Civilian noninstitutional population .....	956	934	47	51	911	883	11,368	11,896	976	972
Civilian labor force .....	618	611	31	36	587	575	7,423	7,882	653	658
Percent of population .....	64.5	65.4	66.8	70.2	64.4	65.1	65.3	66.3	66.9	67.7
Employed .....	533	534	31	34	502	500	6,639	7,194	580	596
Unemployed .....	86	77	-	2	85	75	784	688	73	63
Unemployment rate .....	13.8	12.6	( <sup>1</sup> )	4.3	14.5	13.1	10.6	8.7	11.2	9.5
Not in labor force .....	340	323	15	15	324	308	3,945	4,013	323	314

<sup>1</sup> 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  
NOT SEASONALLY ADJUSTED  
ANNUAL AVERAGES**

**58. 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	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
<b>TOTAL</b>												
Civilian noninstitutional population .....	26,529	27,554	154,058	155,199	17,761	18,382	122,180	123,937	8,768	9,172	31,878	31,262
Civilian labor force .....	15,043	15,643	102,793	104,222	9,969	10,340	82,695	84,423	5,073	5,302	20,098	19,799
Percent of population .....	56.7	56.8	66.7	67.2	56.1	56.3	67.7	68.1	57.9	57.8	63.0	63.3
Employed .....	13,013	13,842	96,585	98,599	8,533	9,070	77,975	80,068	4,480	4,771	18,610	18,531
Unemployed .....	2,029	1,801	6,207	5,623	1,437	1,270	4,720	4,355	593	531	1,487	1,268
Unemployment rate .....	13.5	11.5	6.0	5.4	14.4	12.3	5.7	5.2	11.7	10.0	7.4	6.4
Men, 20 years and over .....	12.3	10.3	5.2	4.7	13.3	11.3	4.9	4.5	10.4	8.5	6.4	5.6
Women, 20 years and over .....	11.9	10.2	5.4	4.7	12.4	10.7	5.1	4.5	10.8	9.0	6.9	5.6
Both sexes, 16 to 19 years .....	32.4	28.6	16.2	15.1	35.1	28.7	15.9	14.5	26.9	28.4	17.6	17.4
Men .....	32.1	28.9	17.0	16.0	35.0	29.3	16.6	15.6	26.4	28.0	18.2	17.7
Women .....	32.7	28.3	15.5	14.0	35.2	28.0	15.1	13.3	27.4	28.9	17.0	17.0
Not in labor force .....	11,486	11,911	51,265	50,977	7,791	8,042	39,485	39,514	3,695	3,869	11,780	11,463
<b>White</b>												
Civilian noninstitutional population .....	15,804	16,652	139,628	140,306	9,309	9,943	109,595	110,807	6,495	6,709	30,033	29,499
Civilian labor force .....	9,098	9,614	92,703	93,676	5,283	5,693	73,750	74,988	3,815	3,921	18,953	18,688
Percent of population .....	57.6	57.7	66.4	66.8	56.8	57.3	67.3	67.7	58.7	58.4	63.1	63.4
Employed .....	8,157	8,776	87,504	89,013	4,695	5,154	69,896	71,478	3,461	3,622	17,608	17,536
Unemployed .....	942	838	5,199	4,663	588	539	3,853	3,510	354	299	1,345	1,152
Unemployment rate .....	10.3	8.7	5.6	5.0	11.1	9.5	5.2	4.7	9.3	7.6	7.1	6.2
Men, 20 years and over .....	9.6	8.1	4.9	4.4	10.3	8.8	4.5	4.2	8.6	7.0	6.2	5.4
Women, 20 years and over .....	9.2	7.4	5.0	4.3	9.9	8.1	4.6	4.0	8.3	6.4	6.5	5.3
Both sexes, 16 to 19 years .....	23.7	21.4	14.8	13.7	25.9	21.9	14.3	12.9	20.7	20.6	16.9	16.8
Men .....	24.0	22.4	15.5	14.7	25.6	23.7	15.0	14.0	21.7	20.2	17.3	17.1
Women .....	23.4	20.2	14.2	12.7	26.2	19.7	13.6	11.7	19.6	21.1	16.5	16.5
Not in labor force .....	6,706	7,038	46,925	46,630	4,026	4,250	35,845	35,819	2,680	2,789	11,080	10,811
<b>Black</b>												
Civilian noninstitutional population .....	9,760	9,878	10,229	10,474	7,783	7,732	8,837	9,130	1,977	2,146	1,392	1,343
Civilian labor force .....	5,416	5,468	7,238	7,525	4,316	4,264	6,366	6,662	1,100	1,204	873	863
Percent of population .....	55.5	55.4	70.8	71.8	55.5	55.2	72.0	73.0	55.6	56.1	62.7	64.2
Employed .....	4,397	4,572	6,418	6,737	3,504	3,566	5,652	5,965	893	1,006	765	772
Unemployed .....	1,019	896	821	788	812	699	714	697	207	198	107	91
Unemployment rate .....	18.8	16.4	11.3	10.5	18.8	16.4	11.2	10.5	18.8	16.4	12.3	10.5
Men, 20 years and over .....	17.5	14.9	9.6	8.4	18.0	15.6	9.8	8.4	15.9	12.4	8.3	7.7
Women, 20 years and over .....	15.8	14.3	9.8	9.7	15.3	13.9	9.4	9.6	17.9	15.5	13.3	10.6
Both sexes, 16 to 19 years .....	45.0	40.3	34.4	30.4	45.2	38.1	34.9	30.8	44.2	47.4	30.8	27.8
Men .....	44.2	40.6	35.2	30.3	46.2	38.6	35.5	30.4	37.4	46.4	33.5	( <sup>1</sup> )
Women .....	45.9	40.0	33.5	30.7	44.2	37.7	34.4	31.3	( <sup>1</sup> )	48.5	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	4,345	4,410	2,990	2,949	3,467	3,468	2,471	2,468	877	942	520	480
<b>Hispanic origin</b>												
Civilian noninstitutional population .....	4,094	4,464	8,250	8,403	3,730	4,103	7,656	7,830	364	361	594	573
Civilian labor force .....	2,324	2,596	5,752	5,945	2,101	2,380	5,356	5,550	222	216	396	395
Percent of population .....	56.8	58.1	69.7	70.7	56.3	58.0	70.0	70.9	61.1	59.8	66.6	68.9
Employed .....	1,995	2,298	5,224	5,492	1,808	2,116	4,879	5,140	187	182	345	352
Unemployed .....	329	298	528	453	294	264	478	410	35	34	51	43
Unemployment rate .....	14.1	11.5	9.2	7.6	14.0	11.1	8.9	7.4	15.7	15.7	12.8	10.9
Men, 20 years and over .....	12.8	10.3	8.1	6.6	12.7	10.1	7.8	6.3	13.7	12.7	11.7	10.6
Women, 20 years and over .....	13.2	10.3	8.3	6.7	12.9	9.8	8.1	6.6	16.1	16.3	12.1	8.6
Both sexes, 16 to 19 years .....	28.7	23.9	22.9	21.4	28.6	23.0	22.8	21.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	26.0	22.7	23.7	21.9	26.0	22.0	23.6	21.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	33.2	25.6	21.9	20.8	33.0	24.7	21.7	20.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	1,771	1,869	2,497	2,458	1,629	1,723	2,299	2,280	142	145	198	178

<sup>1</sup> 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**

**59. 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	1986					1987				
	Total em- ployed	Members of unions <sup>1</sup>		Represented by unions <sup>2</sup>		Total em- ployed	Members of unions <sup>1</sup>		Represented by unions <sup>2</sup>	
		Total	Percent of em- ployed	Total	Percent of em- ployed		Total	Percent of em- ployed	Total	Percent of em- ployed
<b>SEX AND AGE</b>										
Total, 16 years and over .....	96,903	16,975	17.5	19,278	19.9	99,303	16,913	17.0	19,051	19.2
16 to 24 years .....	19,663	1,385	7.0	1,655	8.4	19,553	1,299	6.6	1,538	7.9
25 years and over .....	77,240	15,590	20.2	17,623	22.8	79,749	15,614	19.6	17,513	22.0
25 to 34 years .....	29,357	4,674	15.9	5,398	18.4	30,197	4,752	15.7	5,436	18.0
35 to 44 years .....	22,306	4,966	22.3	5,634	25.3	23,443	5,080	21.7	5,664	24.2
45 to 54 years .....	14,287	3,531	24.7	3,908	27.4	14,718	3,442	23.4	3,821	26.0
55 to 64 years .....	9,339	2,245	24.0	2,478	26.5	9,349	2,142	22.9	2,367	25.3
65 years and over .....	1,950	174	8.9	204	10.5	2,042	198	9.7	224	11.0
Men, 16 years and over .....	51,942	11,173	21.5	12,317	23.7	52,938	11,071	20.9	12,144	22.9
16 to 24 years .....	10,148	888	8.8	1,045	10.3	10,018	860	8.6	991	9.9
25 years and over .....	41,794	10,285	24.6	11,272	27.0	42,920	10,211	23.8	11,153	26.0
25 to 34 years .....	16,131	3,090	19.2	3,450	21.4	16,517	3,112	18.8	3,460	20.9
35 to 44 years .....	11,833	3,262	27.6	3,575	30.2	12,365	3,295	26.6	3,579	28.9
45 to 54 years .....	7,666	2,332	30.4	2,514	32.8	7,804	2,258	28.9	2,442	31.3
55 to 64 years .....	5,144	1,498	29.1	1,616	31.4	5,139	1,435	27.9	1,548	30.1
65 years and over .....	1,021	103	10.1	116	11.4	1,094	111	10.2	124	11.4
Women, 16 years and over .....	44,961	5,802	12.9	6,961	15.5	46,365	5,842	12.6	6,907	14.9
16 to 24 years .....	9,515	497	5.2	610	6.4	9,536	440	4.6	547	5.7
25 years and over .....	35,446	5,305	15.0	6,351	17.9	36,829	5,402	14.7	6,360	17.3
25 to 34 years .....	13,226	1,584	12.0	1,947	14.7	13,680	1,640	12.0	1,976	14.4
35 to 44 years .....	10,473	1,704	16.3	2,059	19.7	11,079	1,786	16.1	2,086	18.8
45 to 54 years .....	6,621	1,199	18.1	1,395	21.1	6,914	1,183	17.1	1,379	19.9
55 to 64 years .....	4,195	748	17.8	862	20.5	4,209	707	16.8	819	19.5
65 years and over .....	930	71	7.6	88	9.4	947	87	9.1	100	10.6
<b>RACE AND HISPANIC ORIGIN</b>										
White, 16 years and over .....	83,745	14,061	16.8	15,955	19.1	85,525	13,972	16.3	15,712	18.4
Men .....	45,334	9,505	21.0	10,461	23.1	46,079	9,407	20.4	10,288	22.3
Women .....	38,410	4,557	11.9	5,493	14.3	39,446	4,565	11.6	5,424	13.8
Black, 16 years and over .....	10,380	2,436	23.5	2,773	26.7	10,838	2,445	22.6	2,769	25.5
Men .....	5,124	1,395	27.2	1,549	30.2	5,329	1,381	25.9	1,531	28.7
Women .....	5,257	1,040	19.8	1,223	23.3	5,509	1,065	19.3	1,238	22.5
Hispanic origin, 16 years and over .....	6,693	1,193	17.8	1,339	20.0	7,215	1,234	17.1	1,371	19.0
Men .....	4,046	826	20.4	903	22.3	4,315	859	19.9	938	21.7
Women .....	2,648	367	13.9	436	16.5	2,900	374	12.9	434	15.0
<b>FULL- OR PART-TIME STATUS<sup>3</sup></b>										
Full-time workers .....	78,727	15,698	19.9	17,748	22.5	80,836	15,670	19.4	17,567	21.7
Part-time workers .....	18,176	1,277	7.0	1,530	8.4	18,467	1,243	6.7	1,484	8.0

<sup>1</sup> Data refer to members of a labor union or an employee association similar to a union.

<sup>2</sup> 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.

<sup>3</sup> 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.

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

(Numbers in thousands)

Occupation and industry	1986					1987				
	Total employed	Members of unions <sup>1</sup>		Represented by unions <sup>2</sup>		Total employed	Members of unions <sup>1</sup>		Represented by unions <sup>2</sup>	
		Total	Percent of employed	Total	Percent of employed		Total	Percent of employed	Total	Percent of employed
<b>OCCUPATION</b>										
Managerial and professional specialty .....	22,492	3,328	14.8	4,213	18.7	23,378	3,512	15.0	4,286	18.3
Executive, administrative, and managerial .....	10,306	677	6.6	922	8.9	10,770	726	6.7	944	8.8
Professional specialty .....	12,185	2,651	21.8	3,291	27.0	12,607	2,786	22.1	3,342	26.5
Technical, sales, and administrative support .....	31,046	3,340	10.8	4,000	12.9	31,801	3,265	10.3	3,868	12.2
Technicians and related support .....	3,286	363	11.1	458	13.9	3,243	341	10.5	412	12.7
Sales occupations .....	10,588	656	6.2	751	7.1	10,860	612	5.6	691	6.4
Administrative support, including clerical .....	17,172	2,320	13.5	2,791	16.3	17,698	2,311	13.1	2,765	15.6
Service occupations .....	13,609	1,920	14.1	2,166	15.9	13,876	1,953	14.1	2,187	15.8
Protective service .....	1,799	697	38.7	781	43.4	1,909	725	38.0	795	41.7
Service, except protective service .....	11,810	1,223	10.4	1,386	11.7	11,967	1,228	10.3	1,392	11.6
Precision production, craft and repair .....	11,455	3,268	28.5	3,489	30.5	11,567	3,132	27.1	3,364	29.1
Operators, fabricators, and laborers .....	16,554	5,012	30.3	5,288	31.9	16,920	4,956	29.3	5,234	30.9
Machine operators, assemblers, and inspectors .....	7,745	2,566	33.1	2,690	34.7	7,882	2,423	30.7	2,538	32.2
Transportation and material moving occupations .....	4,215	1,302	30.9	1,380	32.8	4,351	1,349	31.0	1,430	32.9
Handlers, equipment cleaners, helpers, and laborers .....	4,595	1,144	24.9	1,218	26.5	4,686	1,183	25.2	1,266	27.0
Farming, forestry, and fishing .....	1,747	109	6.2	121	6.9	1,763	96	5.4	113	6.4
<b>INDUSTRY</b>										
Agricultural wage and salary workers .....	1,437	35	2.5	41	2.9	1,469	33	2.2	37	2.5
Private nonagricultural wage and salary workers .....	79,091	11,051	14.0	12,165	15.4	80,993	10,826	13.4	11,850	14.6
Mining .....	822	144	17.5	157	19.1	782	143	18.3	153	19.5
Construction .....	4,959	1,092	22.0	1,158	23.4	5,052	1,060	21.0	1,123	22.2
Manufacturing .....	20,296	4,869	24.0	5,231	25.8	20,235	4,691	23.2	5,008	24.7
Durable goods .....	12,171	3,104	25.5	3,323	27.3	12,005	2,969	24.7	3,162	26.3
Nondurable goods .....	8,124	1,765	21.7	1,908	23.5	8,231	1,722	20.9	1,846	22.4
Transportation and public utilities .....	5,715	2,023	35.4	2,192	38.3	5,819	1,947	33.5	2,106	36.2
Transportation .....	3,142	1,077	34.3	1,144	36.4	3,274	1,051	32.1	1,113	34.0
Communications and public utilities .....	2,573	946	36.8	1,048	40.7	2,545	897	35.2	993	39.0
Wholesale and retail trade .....	19,839	1,425	7.2	1,554	7.8	20,401	1,440	7.1	1,572	7.7
Wholesale trade .....	3,768	282	7.5	309	8.2	3,935	330	8.4	359	9.1
Retail trade .....	16,071	1,144	7.1	1,245	7.7	16,466	1,110	6.7	1,213	7.4
Finance, insurance, and real estate .....	6,424	168	2.6	230	3.6	6,738	158	2.3	217	3.2
Services .....	21,036	1,329	6.3	1,643	7.8	21,965	1,387	6.3	1,673	7.6
Government workers .....	16,374	5,888	36.0	7,071	43.2	16,841	6,055	36.0	7,164	42.5

<sup>1</sup> Data refer to members of a labor union or an employee association similar to a union.

<sup>2</sup> 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**

**61. 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	1986				1987			
	Total	Members of unions <sup>1</sup>	Represented by unions <sup>2</sup>	Non-union	Total	Members of unions <sup>1</sup>	Represented by unions <sup>2</sup>	Non-union
<b>SEX AND AGE</b>								
Total, 16 years and over .....	\$358	\$444	\$439	\$325	\$373	\$465	\$459	\$342
16 to 24 years .....	231	310	305	224	242	318	312	235
25 years and over .....	391	456	452	365	403	475	472	380
25 to 34 years .....	360	422	417	339	373	436	430	354
35 to 44 years .....	418	479	475	396	435	493	490	409
45 to 54 years .....	415	480	479	385	429	492	492	400
55 to 64 years .....	396	443	444	370	405	462	463	381
65 years and over .....	298	377	376	278	310	404	406	283
Men, 16 years and over .....	419	482	481	394	433	494	493	406
16 to 24 years .....	245	331	324	235	257	340	332	247
25 years and over .....	462	490	489	439	477	501	500	456
25 to 34 years .....	401	456	453	385	411	471	466	395
35 to 44 years .....	498	503	502	495	510	516	514	506
45 to 54 years .....	505	504	505	505	519	519	520	519
55 to 64 years .....	484	487	488	481	495	498	500	490
65 years and over .....	358	441	433	319	380	455	452	341
Women, 16 years and over .....	290	368	367	274	303	388	385	288
16 to 24 years .....	218	271	269	215	226	286	283	222
25 years and over .....	308	377	376	293	321	395	393	306
25 to 34 years .....	305	368	365	295	316	383	379	306
35 to 44 years .....	319	398	395	301	336	423	419	315
45 to 54 years .....	308	379	379	289	324	397	397	306
55 to 64 years .....	295	345	349	278	308	363	371	291
65 years and over .....	255	( <sup>3</sup> )	311	240	260	341	342	241
<b>RACE AND HISPANIC ORIGIN</b>								
White, 16 years and over .....	370	458	452	338	383	477	474	355
Men .....	433	489	488	407	450	501	500	419
Women .....	294	376	374	279	307	394	392	293
Black, 16 years and over .....	291	387	383	255	301	399	395	288
Men .....	318	415	413	275	326	423	420	288
Women .....	263	339	335	236	275	357	355	251
Hispanic origin, 16 years and over .....	277	383	379	252	284	395	392	261
Men .....	299	412	409	268	306	418	417	276
Women .....	241	309	308	227	251	311	311	239

<sup>1</sup> Data refer to members of a labor union or an employee association similar to a union.

<sup>2</sup> 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.

<sup>3</sup> 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. 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.



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

Occupation and industry	1986				1987			
	Total	Members of unions <sup>1</sup>	Represented by unions <sup>2</sup>	Non-union	Total	Members of unions <sup>1</sup>	Represented by unions <sup>2</sup>	Non-union
<b>OCCUPATION</b>								
Managerial and professional specialty .....	\$505	\$502	\$497	\$507	\$522	\$521	\$519	\$523
Executive, administrative, and managerial .....	511	520	511	511	530	530	532	530
Professional specialty .....	500	499	494	504	518	519	516	520
Technical, sales, and administrative support .....	320	404	397	309	332	413	407	319
Technicians and related support .....	416	469	467	407	429	495	492	420
Sales occupations .....	351	386	390	347	376	389	391	374
Administrative support, including clerical .....	300	399	389	285	308	409	401	294
Service occupations .....	223	356	350	201	234	375	370	209
Protective service .....	392	486	480	304	414	508	505	318
Service, except protective service .....	205	292	288	193	213	306	303	200
Precision production, craft and repair .....	408	512	508	361	419	521	517	378
Operators, fabricators, and laborers .....	301	412	409	256	308	420	416	268
Machine operators, assemblers, and inspectors .....	293	389	387	249	295	397	393	258
Transportation and material moving occupations .....	366	485	482	305	382	493	489	320
Handlers, equipment cleaners, helpers, and laborers .....	263	390	387	222	277	398	395	239
Farming, forestry, and fishing .....	217	356	350	209	217	373	369	210
<b>INDUSTRY</b>								
Agricultural wage and salary workers .....	216	( <sup>3</sup> )	( <sup>3</sup> )	213	219	( <sup>3</sup> )	( <sup>3</sup> )	217
Private nonagricultural wage and salary workers .....	347	442	437	322	362	458	452	339
Mining .....	510	513	513	509	514	532	528	506
Construction .....	380	590	581	327	397	594	585	351
Manufacturing .....	380	417	417	359	389	426	424	370
Durable goods .....	405	432	433	390	413	448	447	398
Nondurable goods .....	332	390	389	312	344	399	396	322
Transportation and public utilities .....	477	511	508	430	482	519	516	432
Transportation .....	443	520	516	379	441	522	520	383
Communications and public utilities .....	499	502	498	501	515	516	512	520
Wholesale and retail trade .....	280	384	381	272	292	397	394	285
Wholesale trade .....	378	418	419	372	393	437	436	386
Retail trade .....	250	370	362	242	262	373	367	255
Finance, insurance, and real estate .....	352	348	357	352	373	363	369	373
Services .....	310	349	350	306	327	375	375	322
Government workers .....	409	449	442	375	424	475	470	388

<sup>1</sup> Data refer to members of a labor union or an employee association similar to a union.

<sup>2</sup> 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.

<sup>3</sup> 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.

**ESTABLISHMENT DATA  
EMPLOYMENT  
ANNUAL AVERAGES**

**63. Employees on nonagricultural payrolls by major industry and manufacturing group**

(In thousands)

Industry	1984	1985	1986	1987 <sup>p</sup>
<b>Total</b> .....	94,496	97,519	99,610	102,105
<b>Total private</b> .....	78,472	81,125	82,900	85,042
<b>Goods-producing</b> .....	24,727	24,859	24,681	24,885
<b>Mining</b> .....	966	927	783	742
Oil and gas extraction .....	806.5	582.9	457.4	425.5
<b>Construction</b> .....	4,383	4,673	4,904	5,032
General building contractors .....	1,161.3	1,252.5	1,293.3	1,278.9
<b>Manufacturing</b> .....	19,378	19,260	18,994	19,112
<b>Durable goods</b> .....	11,505	11,490	11,244	11,235
Lumber and wood products .....	703.5	697.3	710.5	739.0
Furniture and fixtures .....	486.6	493.5	497.1	513.3
Stone, clay, and glass products .....	592.6	588.1	585.8	584.8
Primary metal industries .....	857.4	808.0	752.5	750.5
Blast furnaces and basic steel products .....	334.1	302.6	275.1	274.4
Fabricated metal products .....	1,463.1	1,465.3	1,431.1	1,428.2
Machinery, except electrical .....	2,197.6	2,174.3	2,059.7	2,038.4
Electrical and electronic equipment .....	2,207.9	2,197.2	2,123.0	2,100.8
Transportation equipment .....	1,900.7	1,979.6	2,015.1	2,015.3
Motor vehicles and equipment .....	861.7	883.5	865.0	841.7
Instruments and related products .....	713.8	720.1	706.8	695.8
Miscellaneous manufacturing .....	381.9	367.0	362.0	369.3
<b>Nondurable goods</b> .....	7,873	7,770	7,750	7,876
Food and kindred products .....	1,612.2	1,602.5	1,616.9	1,635.8
Tobacco manufactures .....	64.2	63.9	59.3	56.5
Textile mill products .....	746.2	702.3	705.3	730.0
Apparel and other textile products .....	1,185.3	1,121.3	1,105.5	1,113.6
Paper and allied products .....	680.9	677.7	674.3	678.6
Printing and publishing .....	1,376.4	1,427.8	1,457.1	1,501.4
Chemicals and allied products .....	1,049.4	1,044.1	1,022.6	1,026.6
Petroleum and coal products .....	188.9	179.3	168.8	164.8
Rubber and misc. plastics products .....	780.1	785.6	769.5	818.2
Leather and leather products .....	189.4	165.0	151.2	150.6
<b>Service-producing</b> .....	69,769	72,660	74,930	77,219
<b>Transportation and public utilities</b> .....	5,159	5,238	5,244	5,377
Transportation .....	2,917	3,003	3,041	3,148
Communication and public utilities .....	2,242	2,235	2,203	2,229
<b>Wholesale trade</b> .....	5,555	5,717	5,735	5,797
Durable goods .....	3,276	3,386	3,383	3,419
Nondurable goods .....	2,279	2,329	2,351	2,378
<b>Retail trade</b> .....	16,545	17,356	17,845	18,259
General merchandise stores .....	2,267.4	2,323.8	2,362.9	2,402.1
Food stores .....	2,637.1	2,775.4	2,872.9	2,958.4
Automotive dealers and service stations .....	1,798.5	1,890.0	1,942.7	1,987.2
Eating and drinking places .....	5,388.0	5,709.2	5,878.8	5,993.6
<b>Finance, insurance, and real estate</b> .....	5,689	5,955	6,297	6,588
Finance .....	2,854	2,977	3,152	3,278
Insurance .....	1,757	1,833	1,945	2,043
Real estate .....	1,078	1,146	1,200	1,267
<b>Services</b> .....	20,797	22,000	23,099	24,136
Business services .....	4,056.8	4,457.1	4,781.0	5,097.6
Health services .....	6,122.3	6,296.7	6,550.5	6,879.8
<b>Government</b> .....	16,024	16,394	16,711	17,063
Federal .....	2,607	2,875	2,899	2,943
State .....	3,734	3,832	3,886	3,954
Local .....	9,482	9,687	9,923	10,167

<sup>p</sup> = preliminary.  
NOTE: Establishment survey estimates are currently projected from March 1986 benchmark

levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
ANNUAL AVERAGES**

**64. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group**

(In thousands)

Industry	1984	1985	1986	1987 <sup>P</sup>
<b>Total private</b> .....	63,415	65,586	67,061	68,776
<b>Goods-producing</b> .....	17,377	17,409	17,292	17,477
<b>Mining</b> .....	686	658	550	530
<b>Construction</b> .....	3,406	3,659	3,848	3,924
<b>Manufacturing</b> .....	13,285	13,092	12,895	13,022
<b>Durable goods</b> .....	7,739	7,644	7,432	7,458
Lumber and wood products .....	589.5	583.8	597.1	618.1
Furniture and fixtures .....	390.1	394.1	397.1	411.0
Stone, clay, and glass products .....	455.1	450.7	450.9	452.6
Primary metal industries .....	651.4	611.5	566.2	565.1
Blast furnaces and basic steel products .....	256.8	231.5	210.0	207.3
Fabricated metal products .....	1,078.8	1,083.7	1,057.4	1,058.8
Machinery, except electrical .....	1,328.9	1,306.8	1,225.2	1,214.2
Electrical and electronic equipment .....	1,353.9	1,300.3	1,228.7	1,226.8
Transportation equipment .....	1,215.3	1,257.0	1,263.7	1,263.9
Motor vehicles and equipment .....	664.1	684.8	665.0	654.5
Instruments and related products .....	397.9	391.4	382.7	378.4
Miscellaneous manufacturing .....	277.7	264.4	262.7	269.1
<b>Nondurable goods</b> .....	5,546	5,449	5,463	5,564
Food and kindred products .....	1,119.5	1,118.1	1,135.7	1,152.2
Tobacco manufactures .....	48.6	48.0	44.7	42.2
Textile mill products .....	645.6	606.5	610.2	633.9
Apparel and other textile products .....	1,002.5	944.7	930.9	935.2
Paper and allied products .....	511.6	512.1	511.4	515.5
Printing and publishing .....	758.3	788.9	817.3	841.2
Chemicals and allied products .....	583.0	577.8	568.4	575.1
Petroleum and coal products .....	111.3	108.5	105.9	107.5
Rubber and misc. plastics products .....	607.5	607.4	614.0	635.6
Leather and leather products .....	158.0	136.7	124.4	126.0
<b>Service-producing</b> .....	46,037	48,177	49,769	51,299
<b>Transportation and public utilities</b> .....	4,261	4,339	4,335	4,456
<b>Wholesale trade</b> .....	4,454	4,598	4,601	4,637
<b>Retail trade</b> .....	14,765	15,457	15,891	16,228
<b>Finance, insurance, and real estate</b> .....	4,229	4,415	4,655	4,844
<b>Services</b> .....	18,328	19,368	20,288	21,135

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

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
ANNUAL AVERAGES**

**65. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group**

Industry	Average weekly hours				Average hourly earnings				Average weekly earnings			
	1984	1985	1986	1987 <sup>P</sup>	1984	1985	1986	1987 <sup>P</sup>	1984	1985	1986	1987 <sup>P</sup>
<b>Total private</b> .....	35.2	34.9	34.8	34.8	\$8.32	\$8.57	\$8.76	\$8.98	\$292.86	\$299.09	\$304.85	\$312.50
<b>Mining</b> .....	43.3	43.4	42.2	42.3	11.63	11.98	12.44	12.44	503.58	519.93	524.97	526.21
<b>Construction</b> .....	37.8	37.7	37.4	37.8	12.13	12.32	12.47	12.66	458.51	464.46	466.38	478.55
<b>Manufacturing</b> .....	40.7	40.5	40.7	41.0	9.19	9.54	9.73	9.91	374.03	386.37	396.01	406.31
<i>Overtime hours</i> .....	3.4	3.3	3.4	3.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Durable goods</b> .....	41.4	41.2	41.3	41.6	\$9.74	\$10.10	\$10.29	\$10.46	\$403.24	\$416.12	\$424.98	\$435.14
<i>Overtime hours</i> .....	3.6	3.5	3.5	3.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Lumber and wood products .....	39.9	39.9	40.3	40.6	\$8.03	\$8.22	\$8.33	\$8.40	\$320.40	\$327.98	\$335.70	\$341.04
Furniture and fixtures .....	39.7	39.4	39.8	39.9	6.84	7.17	7.46	7.67	271.55	282.50	296.91	306.03
Stone, clay, and glass products .....	42.0	41.9	42.2	42.3	9.57	9.84	10.05	10.27	401.94	412.30	424.11	434.42
Primary metal industries .....	41.7	41.5	41.9	43.1	11.47	11.67	11.86	11.98	478.30	484.31	496.93	516.34
Blast furnaces and basic steel products .....	40.7	41.1	41.7	43.5	12.98	13.33	13.73	13.84	528.29	547.86	572.54	602.04
Fabricated metal products .....	41.4	41.3	41.3	41.5	9.40	9.70	9.89	10.03	389.16	400.61	408.46	416.25
Machinery, except electrical .....	41.9	41.5	41.6	42.2	9.96	10.29	10.59	10.77	417.32	427.04	440.54	454.49
Electrical and electronic equipment .....	41.0	40.6	41.0	40.9	9.04	9.46	9.65	9.90	370.64	384.08	395.65	404.91
Transportation equipment .....	42.7	42.6	42.3	42.1	12.20	12.71	12.81	12.96	520.94	541.45	541.86	545.62
Motor vehicles and equipment .....	43.8	43.5	42.6	42.3	12.73	13.39	13.45	13.57	557.57	582.47	572.97	574.01
Instruments and related products .....	41.3	41.0	41.0	41.5	8.84	9.17	9.47	9.76	365.09	375.97	388.27	405.04
Miscellaneous manufacturing .....	39.4	39.4	39.6	39.4	7.05	7.30	7.54	7.74	277.77	287.62	298.58	304.96
<b>Nondurable goods</b> .....	39.7	39.6	39.9	40.2	8.38	8.71	8.94	9.16	332.69	344.92	356.71	368.23
<i>Overtime hours</i> .....	3.1	3.1	3.3	3.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Food and kindred products .....	39.8	40.0	40.0	40.2	\$8.39	\$8.57	\$8.74	\$8.92	\$333.92	\$342.80	\$349.60	\$358.58
Tobacco manufactures .....	38.9	37.2	37.4	38.6	11.22	11.96	12.85	13.82	436.46	444.91	480.59	533.45
Textile mill products .....	39.9	39.7	41.1	41.9	6.46	6.70	6.93	7.18	257.75	265.99	284.82	300.84
Apparel and other textile products .....	36.4	36.4	36.7	37.1	5.55	5.73	5.84	5.95	202.02	208.57	214.33	220.75
Paper and allied products .....	43.1	43.1	43.2	43.4	10.41	10.83	11.18	11.42	448.67	466.77	482.98	495.63
Printing and publishing .....	37.9	37.8	38.0	38.0	9.41	9.71	9.99	10.28	356.64	367.04	379.62	390.64
Chemicals and allied products .....	41.9	41.9	41.9	42.3	11.07	11.56	11.98	12.37	463.83	484.36	501.96	523.25
Petroleum and coal products .....	43.7	43.0	43.8	43.8	13.44	14.06	14.18	14.57	587.33	604.58	621.08	638.17
Rubber and misc. plastics products .....	41.7	41.1	41.3	41.6	8.29	8.54	8.73	8.89	345.69	350.99	360.55	369.82
Leather and leather products .....	36.8	37.2	36.9	38.2	5.71	5.83	5.92	6.06	210.13	216.88	218.45	231.49
<b>Transportation and public utilities</b> .....	39.4	39.5	39.2	39.1	11.12	11.40	11.70	12.01	438.13	450.30	458.64	469.59
<b>Wholesale trade</b> .....	38.5	38.4	38.4	38.2	8.89	9.16	9.35	9.61	342.27	351.74	359.04	367.10
<b>Retail trade</b> .....	29.8	29.4	29.2	29.3	5.85	5.94	6.03	6.12	174.33	174.64	176.08	179.32
<b>Finance, insurance, and real estate</b> .....	36.5	36.4	36.4	36.3	7.63	7.94	8.35	8.75	278.50	289.02	303.94	317.63
<b>Services</b> .....	32.6	32.5	32.5	32.5	7.59	7.90	8.16	8.47	247.43	256.75	265.20	275.28

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 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 59,500 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of 290,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who received pay during the payroll period which includes the 12th day of the month.

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

### Employment

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

*Multiple jobholding.* The household survey provides information on the work status of the population without duplication, since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment reports, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

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

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

### Hours of work

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

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

## Earnings

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

## COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

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

## COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

# Household Data (A tables)

## COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey: A Databook*, BLS Bulletin 2096.

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

Inmates of institutions and persons under 14 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 59,500 occupied units are eligible for interview. About 2,500 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 59,500 occupied units, there are 11,000 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 sometime during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

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

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

*Jobseekers* are all unemployed persons who made

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*Poverty areas* are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in 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; and (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

## HISTORICAL COMPARABILITY

### Change in lower age limit

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

*Report on the Labor Force*, February 1967.

### Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

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

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

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

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

The 1980 census occupational classification system evolved

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

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

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

### Changes in the sample design

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

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

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

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. The reliability of national estimates is unaffected. 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.)

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

### ESTIMATING METHODS

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

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

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954 .	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956 .	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959 .	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966 .	357	33,500	1,500	6,000
Jan. 1967 to July 1971 .	449	48,000	2,000	8,500
Aug. 1971 to July 1972 .	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977 .	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979 .	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981 .	629	62,200	2,800	12,000
May 1981 to Dec. 1984 .	629	57,800	2,500	11,000
Jan. 1985 to present	729	57,000	2,500	11,000

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

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

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

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

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

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

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

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population from the April 1, 1980, census through the latest available July 1 estimate, 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 640 of that series. A description of the age estimates methodology is available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

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

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

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

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

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

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

### **Rounding of estimates**

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

### **Reliability of the estimates**

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

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

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

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

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

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

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

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

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

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

2. Approximately 90 percent of the intervals from 1.6

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

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

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

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

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

**Table B. Standard errors for major employment status categories**

(in thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force . . . . .	244	187
Employed . . . . .	263	200
Unemployed . . . . .	131	134
Men, 20 years and over:		
Civilian labor force . . . . .	148	127
Employed . . . . .	162	141
Unemployed . . . . .	89	91
Women, 20 years and over:		
Civilian labor force . . . . .	189	140
Employed . . . . .	190	144
Unemployed . . . . .	82	85
Both sexes, 16 to 19 years:		
Civilian labor force . . . . .	83	91
Employed . . . . .	86	97
Unemployed . . . . .	57	63
Black, 16 years and over:		
Civilian labor force . . . . .	82	63
Employed . . . . .	92	70
Unemployed . . . . .	65	67
Men, 20 years and over:		
Civilian labor force . . . . .	49	43
Employed . . . . .	56	50
Unemployed . . . . .	43	46
Women, 20 years and over:		
Civilian labor force . . . . .	67	44
Employed . . . . .	67	48
Unemployed . . . . .	43	46
Both sexes, 16 to 19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	34
Unemployed . . . . .	30	32

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 159,000. The 68-percent confidence interval as shown by these data is from 11,841,000 to 12,159,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 118,000.

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

**Table C. Standard errors for unemployment rates by major characteristics**

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive-month change		Monthly level	Consecutive-month change
Total (all civilian workers) . . . . .	0.11	0.12			
Men, 20 years and over . . . . .	.15	.15			
Women, 20 years and over . . . . .	.17	.18			
Both sexes, 16 to 19 years . . . . .	.65	.77			
White workers . . . . .	.11	.12			
Black workers . . . . .	.52	.54			
Married men, spouse present . . . . .	.15	.16			
Married women, spouse present . . . . .	.21	.23			
Full-time workers . . . . .	.12	.12			
Part-time workers . . . . .	.34	.42			
Unemployed 15 weeks and over . . . . .	.06	.08			
			<b>Occupation—Continued</b>		
			Precision production, craft, and repair . . . . .	0.32	0.35
			Machine operators, assemblers, and inspectors . . . . .	.50	.57
			Transportation and material moving . . . . .	.57	.64
			Handlers, equipment cleaners, helpers, and laborers . . . . .	.70	.80
			Farming, forestry, and fishing . . . . .	.65	.73
			<b>Industry</b>		
			Nonagricultural private wage and salary workers . . . . .	.13	.14
			Mining . . . . .	1.37	1.56
			Construction . . . . .	.65	.74
			Manufacturing . . . . .	.27	.30
			Durable goods . . . . .	.34	.38
			Nondurable goods . . . . .	.42	.48
			Transportation, communications, and public utilities . . . . .	.41	.46
			Wholesale and retail trade . . . . .	.26	.29
			Finance and services . . . . .	.20	.22
			Government workers . . . . .	.18	.19
			Agricultural wage and salary workers . . . . .	1.22	1.40
<b>Occupation</b>					
Executive, administrative, and managerial . . . . .	.21	.24			
Professional specialty . . . . .	.18	.20			
Technicians and related support . . . . .	.49	.55			
Sales . . . . .	.29	.32			
Administrative support, including clerical . . . . .	.24	.26			
Private household . . . . .	1.07	1.20			
Protective service . . . . .	.67	.76			
Service, except private household and protective . . . . .	.38	.43			



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

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

*Illustration.* Assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. The standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 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 3.6 percent is then approximately  $0.09 \times 1.26 = 0.1$  percentage point.

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

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.9 percent, based on a total of 95,676,000 in the civilian labor force, and that

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

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only
50 . . . . .	14	11	11	11	11	11	11	10	10
100 . . . . .	19	15	16	15	15	15	15	14	14
500 . . . . .	43	33	35	34	34	33	29	32	31
1,000 . . . . .	61	47	49	48	47	46	33	45	42
2,000 . . . . .	85	66	67	68	64	63	33	63	55
4,000 . . . . .	120	93	88	95	84	80	-	87	65
6,000 . . . . .	146	113	99	116	94	86	-	106	58
8,000 . . . . .	-	129	-	133	97	83	-	120	24
10,000 . . . . .	-	143	-	147	94	70	-	133	24
15,000 . . . . .	-	172	-	177	49	70	-	157	-
20,000 . . . . .	-	195	-	201	49	-	-	174	-
30,000 . . . . .	-	-	-	236	-	-	-	195	-
40,000 . . . . .	-	-	-	261	-	-	-	202	-
50,000 . . . . .	-	-	-	278	-	-	-	196	-
60,000 . . . . .	-	-	-	288	-	-	-	176	-
70,000 . . . . .	-	-	-	293	-	-	-	137	-
80,000 . . . . .	-	-	-	293	-	-	-	137	-
100,000 . . . . .	-	-	-	275	-	-	-	-	-
140,000 . . . . .	-	-	-	231	-	-	-	-	-

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

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

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

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force <sup>2</sup>	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years
50 . . . . .	12	13	12	13	8	8	13	13
100 . . . . .	16	18	17	18	11	11	18	18
500 . . . . .	37	40	38	35	25	25	40	34
1,000 . . . . .	51	54	52	38	36	35	55	36
2,000 . . . . .	72	70	69	-	50	47	74	36
4,000 . . . . .	99	78	85	-	70	62	93	-
6,000 . . . . .	118	60	87	-	86	70	97	-
8,000 . . . . .	132	-	-	-	98	73	90	-
10,000 . . . . .	143	-	-	-	109	71	90	-
15,000 . . . . .	160	-	-	-	131	42	90	-
20,000 . . . . .	165	-	-	-	149	42	-	-
30,000 . . . . .	-	-	-	-	175	-	-	-
40,000 . . . . .	-	-	-	-	194	-	-	-
50,000 . . . . .	-	-	-	-	207	-	-	-
60,000 . . . . .	-	-	-	-	215	-	-	-
70,000 . . . . .	-	-	-	-	219	-	-	-
80,000 . . . . .	-	-	-	-	219	-	-	-
100,000 . . . . .	-	-	-	-	208	-	-	-
140,000 . . . . .	-	-	-	-	179	-	-	-

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

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

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

a year prior to this the unemployment rate was 6.1 percent, based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table F (0.12 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  $0.12 \times 1.40 \approx 0.17$  percentage point.

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

Standard error of year-to-year change =

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

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

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

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

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(.30)(216,000)(221,000)}$$

or about 259,000.

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

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . . . .	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.51	9.87	10.21
100 . . . . .	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 . . . . .	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 . . . . .	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 . . . . .	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 . . . . .	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 . . . . .	.19	.27	.42	.57	.68	.76	.82	.87	.90	.93
10,000 . . . . .	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 . . . . .	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 . . . . .	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.22
140,000 . . . . .	.04	.06	.09	.12	.14	.16	.17	.18	.19	.20

**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 . . . . .	2.32	3.28	5.14	7.18	8.69	9.90	10.93	11.81	12.58	14.38
100 . . . . .	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 . . . . .	.73	1.04	1.63	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 . . . . .	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 . . . . .	.37	.52	.81	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 . . . . .	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 . . . . .	.21	.30	.47	.65	.78	.89	.98	1.05	1.11	1.26
10,000 . . . . .	.16	.23	.36	.50	.60	.68	.75	.80	.85	.94
20,000 . . . . .	.12	.16	.25	.35	.42	.47	.51	.54	.57	
60,000 . . . . .	.07	.09	.14	.19	.22	.23	.24			
100,000 . . . . .	.05	.07	.11	.14	.15	.15				
140,000 . . . . .	.04	.06	.09							

**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 . . . . .	2.14	3.01	4.69	6.46	7.68	8.61	9.32	9.86	10.27	10.76
100 . . . . .	1.51	2.13	3.32	4.57	5.43	6.09	6.59	6.97	7.26	7.61
500 . . . . .	.68	.95	1.48	2.04	2.43	2.72	2.95	3.12	3.25	3.40
1,000 . . . . .	.48	.67	1.05	1.44	1.72	1.92	2.08	2.21	2.30	2.41
2,000 . . . . .	.34	.48	.74	1.02	1.22	1.36	1.47	1.56	1.62	1.70
4,000 . . . . .	.24	.34	.52	.72	.86	.96	1.04	1.10	1.15	1.20
6,000 . . . . .	.20	.28	.43	.59	.70	.79	.85	.90	.94	.98
10,000 . . . . .	.15	.21	.33	.46	.54	.61	.66	.70	.73	.76
20,000 . . . . .	.11	.15	.23	.32	.38	.43	.47	.49	.51	.54
40,000 . . . . .	.08	.11	.17	.23	.27	.30	.33	.35	.36	.38
60,000 . . . . .	.06	.09	.14	.19	.22	.25	.27	.28	.30	.31
80,000 . . . . .	.05	.08	.12	.16	.19	.22	.23	.25	.26	.27
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
160,000 . . . . .	.04	.05	.08	.11	.13	.15	.16	.17	.18	.19

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 teenagers (16 to 19 years) . . . . .	1.30	.82	.88	.57	.70
Part time . . . . .	1.40	.74	.88	.46	.60
Unemployment:					
Total . . . . .	1.40	.76	.88	.50	.65
Part time . . . . .	1.40	.69	.88	.39	.54

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

(In thousands)

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

# Establishment Data

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

### COLLECTION

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

#### Federal-State cooperation

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

#### Shuttle schedules

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

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

### CONCEPTS

#### Industrial classification

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

industry indicated by the principal product or activity.

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

#### Industry employment

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

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

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

*Indexes of diffusion of changes in number of employees on nonagricultural payrolls.* These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 185 seasonally adjusted employment series (two-digit non-manufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December issue of *Employment and Earnings*.

#### 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 differ-

ent from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

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

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

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

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

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

*Average hourly earnings, including lump-sum wage payments.* This series is compiled only for aircraft manufactur-

ing, SIC 3721. The same concepts and estimation methods apply to this series as apply to the average hourly earnings series described above; the one difference between the two 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 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

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

*Railroad hours and earnings.* The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

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

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

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

## ESTIMATING METHODS

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

### The "link relative" technique

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

### Size and regional stratification

A number of industries are stratified by size of 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 nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1986 levels. Normally, benchmark adjustments are made annually.

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



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

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

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

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

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 1986 benchmark adjustment is shown in table M.

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

## THE SAMPLE

### Design

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

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1986**

Industry	Benchmark	Estimate	Percent difference
Total . . . . .	98,150	98,617	-0.5
Mining . . . . .	832	842	-1.2
Construction . . . . .	4,415	4,441	-6
Manufacturing . . . . .	18,945	19,148	-1.1
Transportation and public utilities . . . . .	5,200	5,215	-3
Wholesale trade . . . . .	5,695	5,803	-1.9
Retail trade . . . . .	17,327	17,418	-5
Finance, insurance, and real estate . . . . .	6,140	6,144	-.1
Services . . . . .	22,650	22,593	.3
Government . . . . .	16,946	17,013	-4

<sup>1</sup>Less than 0.05 percent.

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 later date, statistics in considerably greater industrial detail.

### Coverage

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

**Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1986<sup>1</sup>**

Industry	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total . . . . .	249,800	37,762,000	38
Mining . . . . .	3,700	319,000	38
Construction . . . . .	23,100	840,000	19
Manufacturing . . . . .	51,100	10,018,000	53
Transportation and public utilities . . . . .	11,600	2,380,000	46
Wholesale trade . . . . .	21,900	978,000	17
Retail trade . . . . .	42,900	3,352,000	19
Finance, insurance, and real estate . . . . .	17,700	2,135,000	35
Services . . . . .	53,300	5,362,000	24
Government:			
Federal <sup>2</sup> . . . . .	5,000	2,908,000	100
State . . . . .	4,800	3,194,000	80
Local . . . . .	14,700	6,276,000	62

<sup>1</sup> Since a few establishments do not report payroll and hours information, hours and earnings estimates may be based on a slightly smaller sample than employment estimates.

<sup>2</sup> National estimates of Federal employment by agency 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 62 percent of employment in Federal establishments.

## Reliability

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

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

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

(In percent)

Industry	Average benchmark revision in estimates of employment <sup>1</sup>	Relative error <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total . . . . .	0.2		
Total private . . . . .	.3	0.1	0.2
Mining . . . . .	2.7	1.0	1.3
Construction . . . . .	1.2	.2	.5
Manufacturing . . . . .	.7	.1	.2
Durable goods . . . . .	.8	.1	.3
Nondurable goods . . . . .	.7	.1	.2
Transportation and public utilities . . . . .	.4	.7	.6
Wholesale trade . . . . .	.7	.2	.4
Retail trade . . . . .	1.0	.2	.4
Finance, insurance, and real estate . . . . .	.2	.2	.4
Services . . . . .	.2	.4	.6
Government <sup>3</sup> . . . . .	.4	—	—

<sup>1</sup> The average percent revision in employment for the 1982-86 benchmarks.

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

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

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

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

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

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

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

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

## STATISTICS FOR STATES AND AREAS

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

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

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

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

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

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

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

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

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total . . . . .	110,800	104,900	Nondurable goods—Continued		
Total private <sup>1</sup> . . . . .	67,400	61,600	Chemicals and allied products . . . . .	2,400	2,300
Goods producing . . . . .	29,300	24,100	Petroleum and coal products . . . . .	1,300	1,300
Mining . . . . .	5,300	5,100	Rubber and misc. plastics products . . . . .	2,100	2,000
Oil and gas extraction . . . . .	4,200	4,100	Leather and leather products . . . . .	2,300	2,200
Construction . . . . .	18,100	14,000	Service-producing industries . . . . .	100,500	98,400
General building contractors . . . . .	6,500	4,900	Transportation and public utilities . . . . .	15,700	13,800
Manufacturing . . . . .	22,800	22,800	Transportation . . . . .	18,200	17,400
Durable goods . . . . .	18,500	17,500	Communication and public utilities . . . . .	6,600	6,200
Lumber and wood products . . . . .	3,100	2,600	Wholesale trade . . . . .	9,000	8,000
Furniture and fixtures . . . . .	2,000	1,800	Durable goods . . . . .	5,800	5,100
Stone, clay, and glass products . . . . .	2,200	2,100	Nondurable goods . . . . .	5,300	4,500
Primary metal industries . . . . .	6,100	5,900	Retail trade . . . . .	37,500	34,600
Blast furnaces and basic steel products . . . . .	4,900	4,600	General merchandise stores . . . . .	20,700	18,700
Fabricated metal products . . . . .	3,300	2,900	Food stores . . . . .	6,400	5,800
Machinery, except electrical . . . . .	7,200	6,400	Automotive dealers and service stations . . . . .	3,200	3,000
Electrical and electronic equipment . . . . .	5,600	6,000	Eating and drinking places . . . . .	17,600	15,200
Transportation equipment . . . . .	9,200	8,800	Finance, insurance, and real estate		
Motor vehicles and equipment . . . . .	8,100	8,600	Finance . . . . .	8,400	7,400
Instruments and related products . . . . .	2,100	2,200	Insurance . . . . .	4,500	3,800
Miscellaneous manufacturing . . . . .	2,000	2,000	Real estate . . . . .	3,000	2,300
Nondurable goods . . . . .	9,900	9,500	Real estate . . . . .	4,800	4,100
Food and kindred products . . . . .	6,300	6,400	Services . . . . .	33,200	30,500
Tobacco manufactures . . . . .	1,700	1,600	Business services . . . . .	12,200	10,800
Textile mill products . . . . .	2,200	2,300	Health services . . . . .	10,600	10,400
Apparel and other textile products . . . . .	6,300	5,600	Government . . . . .	73,700	68,400
Paper and allied products . . . . .	1,500	1,300	Federal . . . . .	17,400	11,300
Printing and publishing . . . . .	2,200	2,100	State . . . . .	24,600	23,000
			Local . . . . .	35,200	32,800

NOTE: Data are based on differences from December 1981 through December 1986.

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

## COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

## CONCEPTS

*Hours of wage and salary workers* in nonagricultural establishments refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers.

*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 measure changes in the volume of goods and services produced per paid hour of labor input.

*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 to eliminate the effect of changes in 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, depreciation, interest, and indirect taxes per unit of output. They are com-

puted by subtracting compensation of all persons from the current-dollar gross national product 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 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 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.

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 of determining eligibility of an area for benefits under Federal programs such as the Job Training Partnership Act and the Public Works and Economic Development Act.

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 and unemployment 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, D.C. 20402. The report "Employment and Unemployment in States and Local Areas" is published monthly through GPO and is available on microfiche only on a subscription basis.

### ESTIMATING METHODS

The civilian labor force and unemployment estimates in 11 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts,

North Carolina, and Florida; and two areas: Los Angeles—Long Beach metropolitan area and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts, see "Household Data," above.

Monthly labor force and unemployment estimates in the remaining 39 States, the District of Columbia, and over 2,600 labor market areas are prepared in several stages. The civilian labor force is the sum of the employment and unemployment levels, which are estimated in accordance with the BLS *Manual for Developing Local Area Unemployment Statistics*.

1. *Preliminary estimate—employment*: The total civilian employment estimate is based on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate 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 the several categories of employment on the basis of employment relationships which existed at the time of the 1980 decennial census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates to which are added estimates for employment not covered by unemployment insurance (UI).

2. *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. This is referred to below as the UI-based estimate.

An estimate for those previously employed in covered industries is derived from a count of current employment insurance claimants, plus estimates of claimants whose benefits have been exhausted, those persons disqualified from receiving benefits for nonmonetary reasons (because they quit, were discharged for cause, etc., but would otherwise have been eligible), and persons who either filed claims late or not at all.

The estimate of those previously employed in industries not covered by UI is derived by applying to the employment estimate for each noncovered industry or class of worker subgroup in the State, the ratio of covered unemployment to covered employment weighted by factors reflecting national historical relationships.

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of

the experienced unemployed; (c) the level of the experienced labor force; and (d) the proportion of the working age population that is considered "youth."

3. *Monthly reconciliation with the CPS*. Each month correction factors for employment and unemployment are applied at the State level to the UI-based estimates obtained above for each of the 39 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 6-month period ending in the current month (e.g., a 6-month moving average). The adjustment is necessary because the State-prepared estimates are not as reliable as the CPS data due to differences in the State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

4. *Substate adjustment for additivity*. Independent estimates of employment and unemployment are prepared for the State (obtained directly from the CPS in the 11 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the sub-State estimates of employment and unemployment add to the independent State totals. In California and New York, which also have sub-State areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures*. Once each year, monthly estimates prepared by the State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 39 States and the District of Columbia for which monthly CPS estimates are not used directly. This adjustment is made because the State-prepared monthly estimates are not as reliable as the CPS annual averages due to the limitations of the 6-month moving average adjustment procedure. Revisions to the inputs used in the UI-based estimates are also made at the time of the annual benchmark.

The State wide benchmarked estimates are produced in three stages. First the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the third-stage estimates are forced into agreement with CPS annual averages. In the 11 States for which CPS estimates are used monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal CPS annual averages.

## 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 regularly in *Employment and Earnings*.

The seasonal adjustment program used for these series is an adaptation of the standard ratio-to-moving-average method. It provides for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the method is given in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Beginning in January 1980, BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing 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. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal adjustment factors are calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a set of 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 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 the 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 methodology 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.

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current year's estimates are based on actual data through March 1987 and projected data through March 1988. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series since June 1981.

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours.

Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production

or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, wholesale trade, retail trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series, however.

Beginning in June 1983, seasonal adjustment factors for Federal Government employment are derived from unadjust-

ed data which include Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers was substantial, and at times varied greatly from year to year, based on administrative decisions of the Postal Service. Hence, it was considered desirable to exclude this group from the unadjusted data upon which the seasonal adjustment factors were based. In the past several years, the number of these workers has decreased to the point where their presence has no impact on seasonal adjustment. Temporary census takers for the 1980 decennial census are removed prior to the calculation of seasonal adjustment factors for Federal Government employment.

The revised seasonally adjusted series for the establishment data reflect experience through March 1987. Seasonal adjustment factors to be used for current adjustment appear in the June 1987 issue of *Employment and Earnings*.



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