



EMPLOYMENT AND EARNINGS

January 1989

U.S. Department of Labor  
Bureau of Labor Statistics

In this issue:  
1988 annual averages  
Revised seasonally adjusted labor force series  
Data on union affiliation





## U.S. DEPARTMENT OF LABOR

Ann McLaughlin, Secretary

### BUREAU OF LABOR STATISTICS

Janet L. Norwood, *Commissioner*

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## 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.
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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.
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### Establishment data

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Industry detail (final)	Mar.
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Women employees (final)	Mar.
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Revised historical national data	Supplement <sup>1</sup>
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State and area annual averages	May
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Area definitions	May
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### State and area labor force data

Annual averages	May
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<sup>1</sup> The latest supplement was published in August 1988.

# Employment and Earnings

Vol. 36 No. 1 January 1989

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 1984-88 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 1989.

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# Employment and Unemployment Developments, December 1988

The number of nonfarm payroll jobs continued to increase in December and unemployment was about unchanged. Both the overall and the civilian worker jobless rates were 5.3 percent in December.

Nonagricultural payroll employment, as measured by the monthly survey of business establishments, rose by 280,000 in December to 107.7 million, seasonally adjusted. Total civilian employment, as measured by the monthly survey of households, was about unchanged at 116.0 million. Both series had shown increases of about 400,000 in the prior month.

## Unemployment

The number of unemployed persons (6.6 million) and the civilian worker unemployment rate (5.3 percent) were about unchanged in December, after seasonal adjustment. Although essentially unchanged over the month, both trended downward during 1988. Most of the decline occurred early in the year, but there was also a slight improvement in the final quarter. (See tables A-33 and A-43.)

Jobless rates among the major worker groups—adult men (4.7 percent), adult women (4.7 percent), teenagers (14.8 percent), whites (4.6 percent), blacks (11.6 percent), and Hispanics (7.6 percent)—also showed little or no change over the month. Nearly all exhibited some modest improvement over the past year, however. (See tables A-33 and A-34.)

Both the mean and median duration of unemployment were about unchanged in December. Most of the decline of nearly 400,000 in unemployment over the past year occurred among persons who were jobless for 15 weeks or longer. (See table A-40.)

## Civilian employment and the labor force

Total civilian employment, at 116.0 million, was about unchanged over the month, after seasonal adjustment. The proportion of the civilian population with jobs (the employment-population ratio) was 62.6 percent in December, sustaining the record-high level set in the prior month. Over the past year, civilian employment increased by 2.3 million, with about two-thirds of the gain accounted for by adult women and one-third by adult men. (See table A-33.)

The civilian labor force was 122.6 million in December, essentially the same as in November, and the labor force participation rate held steady at 66.1 percent. During the

course of 1988, the labor force expanded by 1.9 million. (See table A-33.)

## Discouraged workers

At 950,000 in the fourth quarter, the number of discouraged workers—persons who report that they want to work but are not looking for jobs because they believe they cannot find any—was the same as in the third quarter and has changed very little since early 1987. Just under two-thirds of the discouraged total cited job-market conditions as their reasons for not looking, while the remainder cited personal factors (such as age or lack of education). Black workers continued to make up a disproportionately large share of all discouraged workers. (See table A-53.)

## Industry payroll employment

Total nonagricultural employment rose by 280,000 in December, after seasonal adjustment, to a level of 107.7 million. Most of the employment growth occurred in the service-producing industries, but there was also a moderate gain in manufacturing. (See table B-4.)

Employment in the services sector rose by 230,000, with the growth concentrated in trade and the services industry. Retail trade added 50,000 jobs, with nearly all of the increase in general merchandise stores. Wholesale trade followed its year-long pattern of consistent job growth, adding 25,000 workers to its payrolls. In the services industry, employment rose by 125,000, with business services increasing by 45,000 and health services by 60,000. Over the year, health services employment rose by nearly 500,000.

In the goods-producing sector, manufacturing added 35,000 jobs, following much stronger increases in the previous 2 months. The manufacturers of durable goods accounted for nearly all of December's job gains, as most of the component industries showed an increase. During the course of 1988, manufacturing industries added 410,000 jobs, with the machinery industry alone accounting for about 30 percent of this increase. After a year of strong growth, construction employment showed little change in December. Mining employment, which was fairly weak in the last half of the year, also changed little in December.

## Weekly hours

The average workweek for production or nonsupervisory

workers on private nonagricultural payrolls declined by 0.1 hour in December, seasonally adjusted, to 34.7 hours. In manufacturing, the workweek fell by 0.2 hour to a still high 41.0 hours, while overtime work was unchanged at 3.9 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 127.1 (1977=100), was little changed in December, as was the manufacturing index at 97.0. (See table C-6.)

### Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers edged up by 0.2 percent in December on a seasonally adjusted basis. Average weekly earnings were virtually unchanged. Prior to seasonal adjustment, average hourly earnings remained at \$9.45, and

average weekly earnings rose by \$1.89 to \$329.81. (See tables C-1 and C-7.)

### The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 181.7 (1977=100) in December, seasonally adjusted, an increase of 0.2 percent from November. For the 12 months ended in December, the increase was 3.4 percent. In dollars of constant purchasing power, the HEI decreased 0.9 percent during the 12-month period ending in November. The HEI is computed so as to exclude the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. (Beginning with data for January 1989, the Hourly Earnings Index will no longer be published in this publication.) (See table C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
January	February 3	April	May 5
February	March 10	May	June 2
March	April 7	June	July 7

# 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 1988 and provide revised estimates for January 1984 through December 1988.

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

published in The Employment Situation news release for December 1988, issued January 6 (USD L 89-2). 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 1984-88 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 1988 issue and in BLS Bulletin 2306 for 1984-87 and the seasonally adjusted estimates for 1988 published during the past year. Seasonally adjusted data for 1983 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 1989 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 1989 will be estimated in early July, based on data through June 1989, 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 1988 seasonally adjusted data are not final, the first revisions are, as mentioned above, usually the most substantial of the five that will be made and often indicate the direction any subsequent revisions will take. Therefore, it is appropriate to compare these first revisions with the initial estimates. Table 2 shows the overall and civilian unemployment rates for 1988 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 percentage point in any of those months. Compared to the initial estimates, the revised rates suggest slightly smoother behavior for the rates during the year.

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**Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, January–June 1989**

Procedure and series	January	February	March	April	May	June
<b>Multiplicative Adjustment</b> (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over . . .	.902	.890	.935	1.011	1.044	1.081
Women, 20 years and over . . .	.847	.868	.894	.976	1.063	1.122
Men, 16 to 19 years . . .	.545	.624	.738	1.043	1.195	1.593
Women, 16 to 19 years . . .	.588	.716	.926	.905	1.021	1.695
Nonagricultural employment:						
Men, 20 years and over . . .	.987	.988	.991	.994	1.000	1.007
Women, 20 years and over . . .	.997	.997	1.001	1.001	.999	.993
Unemployment:						
Men, 20 years and over . . .	1.186	1.174	1.123	.996	.926	.963
Women, 20 years and over . . .	1.044	1.039	.989	.930	.966	.983
<b>Additive Adjustment</b> (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years . . .	-297	-313	-320	-263	-114	407
Women, 16 to 19 years . . .	-258	-243	-221	-214	-185	305
Unemployment:						
Men, 16 to 19 years . . .	-5	3	-4	-82	-48	188
Women, 16 to 19 years . . .	-57	-34	-50	-52	-3	245

**Table 2. Seasonally adjusted unemployment rates in 1988 and change due to revision**

Month	As first computed		As revised		Change due to revision	
	Overall	Civilian	Overall	Civilian	Overall	Civilian
January . . .	5.7	5.8	5.7	5.8	0	0
February . . .	5.6	5.7	5.6	5.7	0	0
March . . .	5.5	5.6	5.5	5.6	0	0
April . . .	5.4	5.4	5.4	5.5	0	0.1
May . . .	5.5	5.6	5.5	5.6	0	0
June . . .	5.2	5.3	5.3	5.4	0.1	.1
July . . .	5.4	5.4	5.4	5.4	0	0
August . . .	5.5	5.6	5.5	5.6	0	0
September . . .	5.3	5.4	5.3	5.4	0	0
October . . .	5.2	5.3	5.3	5.3	.1	0
November . . .	5.3	5.4	5.3	5.4	0	0
December . . .	15.3	15.4	5.3	5.3	0	-.1

<sup>1</sup> These rates reflect the use of seasonal factors projected for December 1988 and published in the July 1988 issue of *Employment and Earnings* and were

subject to revision before regular publication of December data.

**Adjustment methods and procedures**

The official seasonal adjustment procedure for the labor force series is the X-11 ARIMA program, which was developed at Statistics Canada during the 1970's as an extension of and improvement to the widely used X-11 method developed at the U.S. Bureau of the Census in the 1960's.<sup>1</sup> The

X-11 ARIMA method improves current estimates for 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.

<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).

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 notation:

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

Where:

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

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

For each labor force series which has been extended based on an ARIMA model, the model has been specifically chosen as well suited to the particular series, based on a set of established criteria. The criteria essentially require a model to: (1) fit the series well, (2) have low average forecasting errors in the last 3 years prior to the projected year, and (3) produce residuals (the differences between the observed values and the values forecast by the model for the observed period) which follow a random pattern. Acceptable ARIMA models have been identified and were used for 178 of the 209 labor force series which were directly adjusted at the end of 1988, including all 12 major civilian labor force components, whose ARIMA models are shown in table 3. The models for two of those major components—unemployment for men 16 to 19 years and agricultural employment for women 20 years and over—are different from those used last year. The 31 remaining series for which acceptable models have not been identified were simply run through the X-11 part of the program without any ARIMA extrapolations.

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 1979 through December 1988, 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 X-11 ARIMA procedure assumes that the original series,

<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 used in end-of-1988 seasonal adjustment for the 12 major civilian labor force components**

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

including the 12 extrapolated observations if an ARIMA model has been applied, is either the product or the sum of three components—trend-cycle, seasonal, and irregular. The method uses either a ratio-to- or difference-from-moving-average approach to estimate the components, depending on whether the multiplicative or additive model is used. The seasonally adjusted series values are computed by dividing each month's original value by the corresponding seasonal factor if the multiplicative model is used, or by subtracting the factor if the additive model is used. Of the 12 major civilian labor force components, the 4 teenage unemployment and nonagricultural employment series were adjusted using the additive model, and the other 8 series with the multiplicative model. Of all the 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, with 6 months of projected factors drawn from each run and historical revisions drawn from the end-of-year run. This practice allows, among other things, the prior publication of seasonal factors, which historically has been regarded by the Bureau of Labor Statistics and other statistical agencies as an important way of ensuring the openness of their seasonal adjustment procedures, especially where very sensitive indicators such as the unemployment rate have been involved. Within recent years, a number of research studies, including a 1987 paper on the labor force series,<sup>3</sup> have indicated that the alternative practice of concurrent adjustment, where the seasonal adjustment procedure is run with all available data each month and factors cannot be published ahead

<sup>3</sup> G.R. Methee and R.J. McIntire, "An Evaluation of Concurrent Seasonal Adjustment for the Major Labor Force Series," in the 1987 *Proceedings of the Business and Economic Statistics Section*, American Statistical Association; copies of a more complete version of the paper can be obtained directly from the authors at the Bureau of Labor Statistics.

of time, generally produces initial seasonally adjusted estimates requiring smaller revisions than those produced by adjustment using projected factors. The Bureau of Labor Statistics is continuing to evaluate concurrent adjustment for the labor force series, and concurrently adjusted alternative estimates for major labor force series are available to interested users upon request.

### **Aggregation procedures**

BLS maintains and publishes several hundred seasonally adjusted labor force series in addition to the 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 unemployment rate for all civilian workers, are all produced by aggregation of some or all of the seasonally adjusted results for the 12 major civilian labor force components. The seasonally adjusted level of total unemployment is the sum of the seasonally adjusted levels of unemployment for the four age-sex groups—men and women 16 to 19, and men and women 20 years and over. Seasonally adjusted civilian employment is the sum of the seasonally adjusted levels of employment for the eight employment components—the same four age-sex groups as noted above employed in nonagricultural and agricultural industries. The seasonally adjusted civilian labor force is the sum of all 12 components. The seasonally adjusted civilian unemployment rate is calculated by taking the total seasonally adjusted unemployment level as a percent of the total seasonally adjusted civilian labor force. For the overall labor force, the resident Armed Forces level is added to the seasonally adjusted civilian labor force, and the seasonally adjusted overall unemployment rate is, of course, calculated by taking total seasonally adjusted unemployment as a percent of that labor force figure.

The principal reason for producing many of the major

seasonally adjusted estimates for the labor force by aggregation rather than by direct adjustment is that this approach ensures that the major seasonally adjusted totals will be arithmetically consistent with at least one major set of components. If the totals were directly adjusted along with the components, such consistency would not, in all likelihood, occur, since the X-11 is not a sum-preserving procedure; that is, the sum of the result for two or more directly adjusted series will not generally be the same as the result of directly adjusting the sum of the unadjusted versions of the same series. Another factor is that it would generally be inappropriate to apply seasonal factors computed for an aggregate series to the components of the aggregate. The various labor force components tend to have significantly different patterns of seasonal variation; for example, teenage unemployment tends to peak in June, while unemployment of adult men tends to peak in the winter months of January and February. In order to properly estimate these varying seasonal patterns, it is necessary to directly adjust the components. 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, much of the revised seasonally adjusted data is 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 1989 factors for any of the directly adjusted series beyond the 12 major components, can be obtained from BLS upon request. Requests for data or inquiries concerning seasonal adjustment methodology or the availability of machine-readable files of labor force data should be addressed to the Data Development Staff, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics, Washington, DC 20212.

**A-1. Employment status of the noninstitutional population 16 years and over, 1955 to date**

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force								Not in labor force	
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number		Percent of labor force
						Total	Agriculture	Nonagricultural industries			
Annual averages											
1955 .....	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660
1956 .....	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402
1957 .....	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960
1960 <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
1988 .....	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
Monthly data, seasonally adjusted <sup>2</sup>											
<b>1987:</b>											
December .....	185,370	122,451	66.1	115,490	1,750	113,740	3,212	110,528	6,961	5.7	62,919
<b>1988:</b>											
January .....	185,571	122,784	66.2	115,804	1,749	114,055	3,256	110,799	6,980	5.7	62,787
February .....	185,705	122,901	66.2	116,009	1,736	114,273	3,200	111,073	6,892	5.6	62,804
March .....	185,847	122,672	66.0	115,865	1,736	114,129	3,181	110,948	6,807	5.5	63,175
April .....	185,964	123,060	66.2	116,392	1,732	114,660	3,187	111,473	6,668	5.4	62,904
May .....	186,088	122,917	66.1	116,117	1,714	114,403	3,110	111,293	6,800	5.5	63,171
June .....	186,247	123,209	66.2	116,686	1,685	115,001	3,121	111,880	6,523	5.3	63,038
July .....	186,402	123,331	66.2	116,707	1,673	115,034	3,060	111,974	6,624	5.4	63,071
August .....	186,522	123,692	66.3	116,895	1,692	115,203	3,142	112,061	6,797	5.5	62,830
September .....	186,666	123,688	66.3	117,074	1,704	115,370	3,176	112,194	6,614	5.3	62,978
October .....	186,801	123,778	66.3	117,260	1,687	115,573	3,238	112,335	6,518	5.3	63,023
November .....	186,949	124,215	66.4	117,652	1,705	115,947	3,238	112,709	6,563	5.3	62,734
December .....	187,098	124,259	66.4	117,705	1,696	116,009	3,193	112,816	6,554	5.3	62,839

<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 1988. Data for 1984-88 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, 1978 to date**

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
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	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983 .....	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984 .....	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 <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	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1987:</b>												
December .....	88,924	68,058	76.5	64,281	1,589	62,692	2,524	60,168	3,777	5.5	20,866	
<b>1988:</b>												
January .....	89,033	68,219	76.6	64,420	1,588	62,832	2,565	60,267	3,799	5.6	20,814	
February .....	89,099	68,289	76.6	64,587	1,577	63,010	2,505	60,505	3,702	5.4	20,810	
March .....	89,168	68,194	76.5	64,417	1,573	62,844	2,479	60,365	3,777	5.5	20,974	
April .....	89,225	68,462	76.7	64,866	1,569	63,297	2,476	60,821	3,596	5.3	20,763	
May .....	89,287	68,409	76.6	64,672	1,553	63,119	2,452	60,667	3,737	5.5	20,878	
June .....	89,367	68,436	76.6	64,894	1,523	63,371	2,448	60,923	3,542	5.2	20,931	
July .....	89,445	68,461	76.5	64,941	1,512	63,429	2,475	60,954	3,520	5.1	20,984	
August .....	89,504	68,685	76.7	64,931	1,529	63,402	2,491	60,911	3,754	5.5	20,819	
September .....	89,577	68,604	76.6	65,015	1,540	63,475	2,488	60,987	3,589	5.2	20,973	
October .....	89,637	68,569	76.5	64,976	1,526	63,450	2,544	60,906	3,593	5.2	21,068	
November .....	89,716	68,686	76.6	65,074	1,542	63,532	2,533	60,999	3,612	5.3	21,030	
December .....	89,792	68,638	76.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,154	
<b>Annual averages</b>												
<b>WOMEN</b>												
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 .....	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <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	
1988 .....	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1987:</b>												
December .....	96,446	54,393	56.4	51,209	161	51,048	688	50,360	3,184	5.9	42,053	
<b>1988:</b>												
January .....	96,538	54,565	56.5	51,384	161	51,223	691	50,532	3,181	5.8	41,973	
February .....	96,606	54,612	56.5	51,422	159	51,263	695	50,568	3,190	5.8	41,994	
March .....	96,679	54,478	56.3	51,448	163	51,285	702	50,583	3,030	5.6	42,201	
April .....	96,739	54,598	56.4	51,526	163	51,363	711	50,652	3,072	5.6	42,141	
May .....	96,801	54,508	56.3	51,445	161	51,284	658	50,626	3,063	5.6	42,293	
June .....	96,880	54,773	56.5	51,792	162	51,630	673	50,957	2,981	5.4	42,107	
July .....	96,957	54,870	56.6	51,766	161	51,605	585	51,020	3,104	5.7	42,087	
August .....	97,018	55,007	56.7	51,964	163	51,801	651	51,150	3,043	5.5	42,011	
September .....	97,089	55,084	56.7	52,059	164	51,895	688	51,207	3,025	5.5	42,005	
October .....	97,164	55,209	56.8	52,284	161	52,123	694	51,429	2,925	5.3	41,955	
November .....	97,234	55,529	57.1	52,578	163	52,415	705	51,710	2,951	5.3	41,705	
December .....	97,306	55,621	57.2	52,650	162	52,488	716	51,772	2,971	5.3	41,685	

<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 1988. See the article in this issue for additional information.



**A-3. Employment status of the civilian noninstitutional population 16 years and over, 1955 to date**

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
1955	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
1956	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <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	8.4	7.2
1962 <sup>1</sup>	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963	122,418	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>	147,086	89,429	60.8	85,064	4,365	4.9	4.2	8.0
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	8.3
1976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	6.6
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
1988	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
Monthly data, seasonally adjusted <sup>2</sup>								
<b>1987:</b>								
December	183,620	120,701	65.7	113,740	6,961	5.8	5.7	5.9
<b>1988:</b>								
January	183,822	121,035	65.8	114,055	6,980	5.8	5.7	5.8
February	183,969	121,165	65.9	114,273	6,892	5.7	5.5	5.9
March	184,111	120,936	65.7	114,129	6,807	5.6	5.7	5.6
April	184,232	121,328	65.9	114,660	6,668	5.5	5.4	5.6
May	184,374	121,203	65.7	114,403	6,800	5.6	5.6	5.6
June	184,562	121,524	65.8	115,001	6,523	5.4	5.3	5.5
July	184,729	121,658	65.9	115,034	6,624	5.4	5.3	5.7
August	184,830	122,000	66.0	115,203	6,797	5.6	5.6	5.5
September	184,962	121,984	66.0	115,370	6,614	5.4	5.4	5.5
October	185,114	122,091	66.0	115,573	6,518	5.3	5.4	5.3
November	185,244	122,510	66.1	115,947	6,563	5.4	5.4	5.3
December	185,402	122,563	66.1	116,009	6,554	5.3	5.3	5.4

<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 1988. See the article in this issue for additional information.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	December 1988										
	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>TOTAL</b>											
16 years and over .....	185,402	122,120	65.9	115,978	6,142	5.0	63,282	27,553	9,356	3,170	23,203
16 to 19 years .....	14,447	7,542	52.2	6,519	1,023	13.6	6,906	432	6,058	24	392
16 to 17 years .....	7,107	2,982	42.0	2,534	448	15.0	4,125	84	3,896	14	131
18 to 19 years .....	7,341	4,560	62.1	3,985	575	12.6	2,781	348	2,162	10	261
20 to 24 years .....	18,220	14,072	77.2	12,961	1,110	7.9	4,149	1,417	2,049	92	590
25 to 54 years .....	102,311	85,195	83.3	81,645	3,551	4.2	17,114	11,697	1,208	1,206	3,003
25 to 34 years .....	42,687	35,695	83.6	33,938	1,758	4.9	6,992	4,914	808	286	985
25 to 29 years .....	21,185	17,774	83.9	16,758	1,015	5.7	3,411	2,300	509	105	497
30 to 34 years .....	21,502	17,922	83.4	17,179	742	4.1	3,581	2,613	299	180	488
35 to 44 years .....	35,286	30,005	85.0	28,892	1,113	3.7	5,281	3,674	297	393	917
35 to 39 years .....	19,027	16,200	85.1	15,550	651	4.0	2,828	1,973	189	173	482
40 to 44 years .....	16,259	13,805	84.9	13,343	463	3.4	2,454	1,692	108	221	435
45 to 54 years .....	24,337	19,495	80.1	18,815	680	3.5	4,842	3,109	103	528	1,102
45 to 49 years .....	13,150	11,013	83.7	10,639	374	3.4	2,137	1,396	67	224	450
50 to 54 years .....	11,187	8,481	75.8	8,176	305	3.6	2,705	1,714	36	304	652
55 to 64 years .....	21,549	11,958	55.5	11,589	369	3.1	9,591	4,771	29	700	4,091
55 to 59 years .....	10,740	7,184	66.9	6,964	219	3.1	3,557	2,019	19	342	1,178
60 to 64 years .....	10,809	4,774	44.2	4,625	149	3.1	6,035	2,752	11	358	2,914
65 years and over .....	28,875	3,354	11.6	3,264	90	2.7	25,521	9,236	12	1,147	15,126
65 to 69 years .....	9,907	2,059	20.8	2,001	58	2.8	7,848	2,943	2	273	4,630
70 to 74 years .....	7,710	857	11.1	826	31	3.6	6,855	2,589	2	232	4,032
75 years and over .....	11,258	438	3.9	438	-	-	10,818	3,704	8	642	6,464
<b>Men</b>											
16 years and over .....	88,258	66,627	75.5	63,111	3,517	5.3	21,630	553	4,804	1,734	14,539
16 to 19 years .....	7,257	3,835	52.9	3,252	583	15.2	3,422	8	3,175	18	221
16 to 17 years .....	3,622	1,478	40.8	1,220	258	17.5	2,144	1	2,066	12	65
18 to 19 years .....	3,635	2,357	64.8	2,032	325	13.8	1,278	7	1,109	6	156
20 to 24 years .....	8,830	7,294	82.6	6,681	614	8.4	1,536	15	1,130	64	326
25 to 54 years .....	50,045	46,716	93.3	44,686	2,032	4.3	3,327	234	489	760	1,844
25 to 34 years .....	20,987	19,776	94.2	18,806	970	4.9	1,211	92	371	182	565
25 to 29 years .....	10,404	9,743	93.7	9,172	571	5.9	661	51	255	74	280
30 to 34 years .....	10,583	10,033	94.8	9,633	399	4.0	550	41	116	108	285
35 to 44 years .....	17,260	16,257	94.2	15,628	630	3.9	1,002	85	86	263	569
35 to 39 years .....	9,338	8,811	94.4	8,457	354	4.0	528	51	61	112	303
40 to 44 years .....	7,921	7,447	94.0	7,171	276	3.7	475	34	24	151	266
45 to 54 years .....	11,798	10,683	90.6	10,252	432	4.0	1,114	56	33	315	710
45 to 49 years .....	6,387	5,925	92.8	5,694	231	3.9	462	25	22	140	275
50 to 54 years .....	5,411	4,758	87.9	4,558	200	4.2	652	32	11	175	435
55 to 64 years .....	10,141	6,794	67.0	6,562	233	3.4	3,346	89	6	442	2,809
55 to 59 years .....	5,121	4,060	79.3	3,915	144	3.6	1,061	42	4	221	794
60 to 64 years .....	5,020	2,735	54.5	2,647	88	3.2	2,285	47	1	222	2,016
65 years and over .....	11,986	1,987	16.6	1,931	56	2.8	9,999	207	4	449	9,339
65 to 69 years .....	4,497	1,187	26.4	1,155	32	2.7	3,310	67	2	140	3,101
70 to 74 years .....	3,334	529	15.9	505	24	4.5	2,806	58	2	104	2,641
75 years and over .....	4,155	271	6.5	271	-	.1	3,883	82		204	3,597
<b>Women</b>											
16 years and over .....	97,144	55,493	57.1	52,867	2,625	4.7	41,652	27,000	4,552	1,435	8,664
16 to 19 years .....	7,190	3,706	51.5	3,267	440	11.9	3,484	424	2,883	5	172
16 to 17 years .....	3,485	1,504	43.2	1,314	190	12.6	1,981	83	1,830	2	66
18 to 19 years .....	3,706	2,203	59.4	1,953	250	11.3	1,503	341	1,053	4	105
20 to 24 years .....	9,390	6,778	72.2	6,281	497	7.3	2,613	1,402	919	28	264
25 to 54 years .....	52,266	38,478	73.6	36,959	1,519	3.9	13,787	11,463	719	446	1,159
25 to 34 years .....	21,700	15,919	73.4	15,132	787	4.9	5,781	4,821	437	103	420
25 to 29 years .....	10,781	8,031	74.5	7,586	444	5.5	2,750	2,249	254	31	217
30 to 34 years .....	10,919	7,889	72.2	7,546	343	4.3	3,031	2,572	183	72	203
35 to 44 years .....	18,027	13,748	76.3	13,265	483	3.5	4,279	3,590	212	130	348
35 to 39 years .....	9,689	7,389	76.3	7,093	297	4.0	2,300	1,932	128	61	179
40 to 44 years .....	8,338	6,358	76.3	6,172	187	2.9	1,979	1,658	84	70	169
45 to 54 years .....	12,539	8,811	70.3	8,563	249	2.8	3,728	3,053	70	213	392
45 to 49 years .....	6,763	5,088	75.2	4,945	143	2.8	1,675	1,371	45	84	175
50 to 54 years .....	5,776	3,723	64.5	3,618	105	2.8	2,053	1,682	25	129	217
55 to 64 years .....	11,408	5,163	45.3	5,027	136	2.6	6,245	4,682	24	258	1,282
55 to 59 years .....	5,620	3,124	55.6	3,049	75	2.4	2,496	1,977	14	121	384
60 to 64 years .....	5,788	2,039	35.2	1,978	61	3.0	3,749	2,705	9	137	898
65 years and over .....	16,889	1,367	8.1	1,333	34	2.5	15,522	9,028	8	699	5,787
65 to 69 years .....	5,410	872	16.1	846	26	3.0	4,538	2,876		133	1,529
70 to 74 years .....	4,376	328	7.5	321	7	2.1	4,049	2,531		128	1,391
75 years and over .....	7,103	167	2.4	167	-	-	6,935	3,622	8	438	2,867

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	December 1988										
	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>WHITE</b>											
16 years and over .....	158,705	104,972	66.1	100,423	4,549	4.3	53,733	24,035	7,176	2,409	20,113
16 to 19 years .....	11,722	6,494	55.4	5,739	755	11.6	5,227	323	4,595	18	292
16 to 17 years .....	5,718	2,614	45.7	2,275	339	13.0	3,104	71	2,915	10	108
18 to 19 years .....	6,004	3,880	64.6	3,464	416	10.7	2,124	252	1,680	8	184
20 to 24 years .....	15,063	11,844	78.6	11,063	781	6.6	3,219	1,088	1,655	58	418
25 to 54 years .....	87,097	73,059	83.9	70,418	2,642	3.6	14,038	9,985	891	879	2,284
25 to 34 years .....	35,921	30,245	84.2	29,005	1,239	4.1	5,676	4,147	580	219	731
25 to 29 years .....	17,791	15,012	84.4	14,294	718	4.8	2,778	1,943	371	87	377
30 to 34 years .....	18,131	15,232	84.0	14,710	522	3.4	2,898	2,204	208	132	354
35 to 44 years .....	30,222	25,870	85.6	25,007	863	3.2	4,352	3,164	237	301	650
35 to 39 years .....	16,182	13,868	85.7	13,377	490	5.8	2,315	1,717	147	130	339
40 to 44 years .....	14,040	12,002	85.5	11,630	372	3.1	2,037	1,467	90	171	310
45 to 54 years .....	20,955	16,946	80.9	16,406	539	3.2	4,009	2,674	74	360	902
45 to 49 years .....	11,337	9,589	84.6	9,294	295	3.1	1,748	1,181	51	167	356
50 to 54 years .....	9,617	7,357	76.5	7,113	244	4.0	2,261	1,503	21	192	546
55 to 64 years .....	18,868	10,568	56.0	10,268	300	2.8	8,300	4,202	24	524	3,551
55 to 59 years .....	9,343	6,321	67.7	6,137	184	2.9	3,022	1,772	16	248	987
60 to 64 years .....	9,525	4,248	44.6	4,131	117	2.7	5,278	2,430	8	276	2,563
65 years and over .....	25,954	3,006	11.6	2,935	71	2.4	22,948	8,437	12	930	13,569
65 to 69 years .....	8,824	1,843	20.9	1,794	49	2.7	6,980	2,648	2	208	4,124
70 to 74 years .....	6,966	771	11.1	749	22	2.9	6,195	2,384	2	182	3,625
75 years and over .....	10,164	392	3.9	392	-	-	9,773	3,406	8	541	5,819
<b>Men</b>											
16 years and over .....	76,125	58,047	76.3	55,338	2,709	4.7	18,078	428	3,701	1,337	12,613
16 to 19 years .....	5,912	3,316	56.1	2,871	445	13.4	2,596	6	2,412	13	165
16 to 17 years .....	2,925	1,308	44.7	1,101	206	15.8	1,617	1	1,551	8	57
18 to 19 years .....	2,987	2,009	67.2	1,770	239	11.9	979	5	862	5	108
20 to 24 years .....	7,369	6,151	83.5	5,688	463	7.5	1,218	12	943	42	221
25 to 54 years .....	43,110	40,673	94.3	39,104	1,569	3.9	2,436	154	337	569	1,376
25 to 34 years .....	17,893	17,015	95.1	16,293	721	4.2	878	53	254	146	425
25 to 29 years .....	8,833	8,326	94.3	7,894	432	5.2	507	33	186	61	227
30 to 34 years .....	9,060	8,689	95.9	8,399	290	3.3	371	20	68	85	198
35 to 44 years .....	14,952	14,256	95.3	13,757	499	3.5	695	57	60	202	376
35 to 39 years .....	8,034	7,678	95.6	7,406	272	3.5	356	36	40	87	193
40 to 44 years .....	6,918	6,578	95.1	6,351	227	3.5	339	22	20	115	182
45 to 54 years .....	10,265	9,403	91.6	9,054	348	3.7	863	43	23	222	575
45 to 49 years .....	5,570	5,212	93.6	5,028	184	3.5	358	20	17	107	214
50 to 54 years .....	4,695	4,191	89.3	4,027	164	3.9	504	24	5	115	361
55 to 64 years .....	8,949	6,097	68.1	5,907	190	3.1	2,851	81	4	333	2,434
55 to 59 years .....	4,484	3,614	80.6	3,496	118	3.3	870	37	3	165	665
60 to 64 years .....	4,464	2,483	55.6	2,412	72	2.9	1,981	44	1	168	1,769
65 years and over .....	10,787	1,809	16.8	1,767	42	2.3	8,978	175	4	380	8,417
65 to 69 years .....	4,028	1,078	26.8	1,052	26	2.4	2,950	53	2	118	2,778
70 to 74 years .....	3,016	485	16.1	469	16	3.3	2,532	47	2	84	2,398
75 years and over .....	3,742	246	6.6	246	-	-	3,496	76		179	3,241
<b>Women</b>											
16 years and over .....	82,580	46,925	56.8	45,085	1,840	3.9	35,654	23,607	3,475	1,072	7,499
16 to 19 years .....	5,810	3,178	54.7	2,868	310	9.8	2,632	317	2,183	5	126
16 to 17 years .....	2,793	1,307	46.8	1,173	133	10.2	1,486	70	1,365	2	50
18 to 19 years .....	3,016	1,871	62.0	1,694	177	9.5	1,145	247	818	4	76
20 to 24 years .....	7,695	5,693	74.0	5,375	319	5.6	2,001	1,076	712	16	197
25 to 54 years .....	43,987	32,386	73.6	31,314	1,073	3.3	11,602	9,831	554	310	908
25 to 34 years .....	18,028	13,230	73.4	12,712	518	3.9	4,799	4,093	326	73	306
25 to 29 years .....	8,958	6,686	74.6	6,400	286	4.3	2,271	1,910	185	26	150
30 to 34 years .....	9,071	6,543	72.1	6,311	232	3.5	2,527	2,184	140	47	156
35 to 44 years .....	15,270	11,614	76.1	11,250	363	3.1	3,657	3,107	177	99	275
35 to 39 years .....	8,148	6,190	76.0	5,971	218	3.5	1,959	1,663	107	43	146
40 to 44 years .....	7,122	5,424	76.2	5,279	145	2.7	1,698	1,444	70	56	128
45 to 54 years .....	10,689	7,543	70.6	7,352	191	2.5	3,147	2,631	51	138	327
45 to 49 years .....	5,767	4,377	75.9	4,266	111	2.5	1,390	1,154	34	60	142
50 to 54 years .....	4,922	3,166	64.3	3,086	80	2.5	1,757	1,478	16	77	185
55 to 64 years .....	9,920	4,471	45.1	4,361	110	2.5	5,449	4,121	20	191	1,117
55 to 59 years .....	4,859	2,707	55.7	2,641	65	2.4	2,152	1,735	12	83	322
60 to 64 years .....	5,061	1,764	34.9	1,719	45	2.5	3,297	2,386	7	108	795
65 years and over .....	15,167	1,197	7.9	1,168	29	2.4	13,970	8,261	8	550	5,151
65 to 69 years .....	4,796	765	16.0	742	23	3.0	4,030	2,595		90	1,346
70 to 74 years .....	3,950	286	7.2	280	6	2.1	3,663	2,337		98	1,227
75 years and over .....	6,422	146	2.3	146	-	-	6,277	3,330	8	362	2,578

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	December 1988										
	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 .....	20,842	13,367	64.1	11,938	1,428	10.7	7,475	2,661	1,561	691	2,564
16 to 19 years .....	2,180	848	38.8	606	240	28.3	1,334	93	1,147	6	89
16 to 17 years .....	1,115	290	26.0	197	93	32.0	825	12	786	4	22
18 to 19 years .....	1,064	555	52.2	409	147	28.4	509	81	360	1	66
20 to 24 years .....	2,504	1,625	72.9	1,535	290	15.9	679	272	232	29	145
25 to 54 years .....	11,615	9,322	80.3	8,503	818	8.8	2,294	1,211	179	293	811
25 to 34 years .....	5,269	4,319	82.0	3,840	479	11.1	950	536	131	87	214
25 to 29 years .....	2,673	2,205	82.5	1,929	275	12.5	489	272	74	18	105
30 to 34 years .....	2,596	2,115	81.5	1,910	204	9.8	482	267	56	48	110
35 to 44 years .....	3,793	3,110	82.0	2,895	215	6.9	663	350	31	60	222
35 to 39 years .....	2,156	1,788	82.9	1,650	140	7.8	367	195	18	38	116
40 to 44 years .....	1,637	1,321	80.7	1,248	75	5.7	316	155	14	42	107
45 to 54 years .....	2,553	1,893	74.1	1,768	124	6.8	661	323	17	146	175
45 to 49 years .....	1,359	1,053	77.5	985	68	6.5	308	167	7	50	82
50 to 54 years .....	1,195	839	70.2	784	57	6.8	355	156	10	96	93
55 to 64 years .....	2,115	1,091	51.8	1,029	82	5.7	1,024	422	3	164	435
55 to 59 years .....	1,101	660	61.7	646	34	5.0	421	171	2	87	161
60 to 64 years .....	1,014	412	40.8	383	28	6.9	602	251	1	77	273
65 years and over .....	2,428	283	11.6	264	19	6.8	2,145	663	-	199	1,284
65 to 69 years .....	890	189	19.0	161	9	5.3	721	230	-	64	428
70 years and over .....	1,537	113	7.4	104	10	6.8	1,424	433	-	135	658
<b>Men</b>											
18 years and over .....	9,360	6,580	70.3	5,883	716	10.9	2,779	82	746	353	1,598
16 to 19 years .....	1,077	434	40.3	304	130	30.0	642	1	588	6	47
16 to 17 years .....	562	145	25.8	98	47	32.3	417	-	405	4	7
18 to 19 years .....	514	289	56.3	206	83	28.8	225	1	182	1	40
20 to 24 years .....	1,140	930	81.6	795	135	14.5	210	2	100	23	84
25 to 54 years .....	5,208	4,538	87.1	4,139	398	8.8	672	52	58	183	398
25 to 34 years .....	2,384	2,154	90.3	1,933	221	10.2	231	29	48	37	116
25 to 29 years .....	1,209	1,112	91.9	985	126	11.4	98	11	25	13	49
30 to 34 years .....	1,175	1,042	88.7	948	94	9.0	133	19	23	23	68
35 to 44 years .....	1,690	1,454	86.0	1,348	106	7.3	236	15	6	50	163
35 to 39 years .....	962	837	87.1	768	70	6.3	124	6	8	20	90
40 to 44 years .....	729	617	84.6	581	36	5.9	112	9	9	30	74
45 to 54 years .....	1,134	929	82.0	858	72	7.7	205	8	2	76	119
45 to 49 years .....	604	518	85.8	480	38	7.4	86	4	1	27	54
50 to 54 years .....	530	411	77.6	378	34	8.2	119	4	1	49	64
55 to 64 years .....	954	540	56.6	501	39	7.3	414	6	-	99	309
55 to 59 years .....	498	335	67.2	310	25	7.4	163	5	-	51	107
60 to 64 years .....	455	205	45.0	190	14	7.1	251	1	-	49	201
65 years and over .....	981	139	14.1	125	14	9.9	842	21	-	62	760
65 to 69 years .....	389	83	21.4	78	6	6.6	306	5	-	22	279
70 years and over .....	591	55	9.3	47	8	( <sup>1</sup> )	536	16	-	39	481
<b>Women</b>											
16 years and over .....	11,482	6,787	59.1	6,075	712	10.5	4,696	2,578	814	338	966
16 to 19 years .....	1,103	412	37.4	302	109	26.6	692	92	559	-	42
16 to 17 years .....	553	146	26.3	99	46	31.8	408	12	381	-	15
18 to 19 years .....	550	266	48.4	203	63	23.7	284	80	178	-	26
20 to 24 years .....	1,364	895	65.6	740	155	17.3	469	270	132	6	61
25 to 54 years .....	6,407	4,784	74.7	4,364	420	8.8	1,622	1,159	121	130	213
25 to 34 years .....	2,885	2,166	75.1	1,907	259	12.0	720	509	83	30	98
25 to 29 years .....	1,464	1,093	74.7	944	149	13.6	371	261	49	5	56
30 to 34 years .....	1,421	1,073	75.5	962	110	10.3	349	248	33	25	42
35 to 44 years .....	2,103	1,656	78.7	1,547	109	6.6	447	335	23	30	59
35 to 39 years .....	1,194	951	79.7	882	70	7.3	243	189	10	18	26
40 to 44 years .....	908	704	77.5	665	39	5.5	204	146	14	12	33
45 to 54 years .....	1,419	963	67.9	911	53	5.5	456	315	15	70	56
45 to 49 years .....	755	535	70.9	505	30	5.6	220	163	6	23	28
50 to 54 years .....	665	428	64.4	406	23	5.3	236	152	9	47	29
55 to 64 years .....	1,161	551	47.5	529	23	4.1	609	416	3	65	126
55 to 59 years .....	602	345	57.2	336	9	2.6	258	166	2	36	54
60 to 64 years .....	559	207	37.0	193	14	6.7	352	250	1	28	72
65 years and over .....	1,447	144	9.9	139	5	3.3	1,303	642	-	137	524
65 to 69 years .....	501	86	17.1	83	3	3.7	415	225	-	42	149
70 years and over .....	946	58	6.1	57	2	( <sup>1</sup> )	888	417	-	96	375

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

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

(Numbers in thousands)

Age and sex	December 1988								Not in labor force
	Civilian noninstitutional population	Civilian labor force						Percent of labor force	
		Total	Percent of population	Employed		Unemployed			
				Total	Agriculture	Nonagricultural industries	Number		
<b>TOTAL</b>									
16 years and over .....	26,697	17,148	64.2	15,555	174	15,380	1,593	9.3	9,549
16 to 19 years .....	2,725	1,047	38.4	780	3	777	267	25.5	1,678
16 to 17 years .....	1,389	367	26.5	259	-	259	109	29.5	1,021
18 to 19 years .....	1,337	680	50.8	521	3	518	159	23.4	657
20 to 24 years .....	3,157	2,227	70.6	1,898	21	1,878	329	14.8	930
25 to 54 years .....	15,213	12,135	79.8	11,226	115	11,111	909	7.5	3,076
25 to 34 years .....	6,766	5,451	80.6	4,933	41	4,892	518	9.5	1,315
25 to 29 years .....	3,394	2,762	81.4	2,464	19	2,445	298	10.8	632
30 to 34 years .....	3,371	1,417	42.0	2,468	22	2,446	221	15.6	683
35 to 44 years .....	5,064	4,135	81.7	3,885	31	3,854	250	6.0	929
35 to 39 years .....	2,846	2,333	82.0	2,173	13	2,160	159	6.8	513
40 to 44 years .....	2,220	1,802	81.2	1,713	17	1,696	91	5.0	416
45 to 54 years .....	3,382	2,549	75.4	2,408	44	2,364	141	5.5	833
45 to 49 years .....	1,813	1,424	78.5	1,344	15	1,330	80	5.6	389
50 to 54 years .....	1,570	1,126	71.7	1,063	29	1,034	61	5.4	444
55 to 64 years .....	2,681	1,390	51.8	1,321	25	1,296	68	4.9	1,291
55 to 59 years .....	1,397	863	61.8	827	13	815	36	4.1	534
60 to 64 years .....	1,283	526	41.0	494	12	481	33	6.2	757
65 years and over .....	2,921	348	11.9	329	10	319	19	5.4	2,573
65 to 69 years .....	1,083	216	19.9	207	2	205	9	4.2	867
70 to 74 years .....	746	86	11.5	77	9	68	10	11.6	660
75 years and over .....	1,093	46	4.2	46	-	46	-	( <sup>1</sup> )	1,046
<b>Men</b>									
16 years and over .....	12,132	8,580	70.7	7,773	151	7,622	808	9.4	3,552
16 to 19 years .....	1,345	519	38.6	381	2	379	138	26.6	826
16 to 17 years .....	697	171	24.5	119	-	119	52	30.4	527
18 to 19 years .....	647	348	53.8	262	2	260	86	24.7	299
20 to 24 years .....	1,461	1,143	78.2	992	19	973	151	13.2	318
25 to 54 years .....	6,935	6,043	87.1	5,581	100	5,481	462	7.6	891
25 to 34 years .....	3,094	2,761	89.2	2,512	32	2,480	249	9.0	333
25 to 29 years .....	1,571	1,418	90.2	1,278	13	1,265	140	9.8	153
30 to 34 years .....	1,523	1,344	88.2	1,234	19	1,215	110	8.2	180
35 to 44 years .....	2,308	2,001	86.7	1,871	26	1,845	130	6.5	307
35 to 39 years .....	1,305	1,133	86.9	1,052	10	1,042	81	7.2	172
40 to 44 years .....	1,004	868	86.5	820	16	803	49	5.6	135
45 to 54 years .....	1,533	1,281	83.6	1,197	42	1,156	83	6.5	252
45 to 49 years .....	817	713	87.3	666	14	652	47	6.6	104
50 to 54 years .....	716	568	79.3	531	28	503	36	6.4	148
55 to 64 years .....	1,192	697	58.5	655	19	636	43	6.1	495
55 to 59 years .....	636	446	70.0	420	7	412	26	5.8	191
60 to 64 years .....	556	252	45.3	235	12	223	17	6.6	304
65 years and over .....	1,199	178	14.8	164	10	154	14	7.8	1,021
65 to 69 years .....	469	109	23.2	103	2	101	6	5.4	360
70 to 74 years .....	318	44	13.8	36	9	27	8	( <sup>1</sup> )	275
75 years and over .....	413	25	6.1	25	-	25	-	( <sup>1</sup> )	387
<b>Women</b>									
16 years and over .....	14,564	8,567	58.8	7,782	23	7,758	785	9.2	5,997
16 to 19 years .....	1,381	528	38.3	399	1	398	129	24.5	852
16 to 17 years .....	691	197	28.5	140	-	140	57	28.8	495
18 to 19 years .....	689	331	48.1	259	1	258	73	22.0	358
20 to 24 years .....	1,696	1,084	63.9	906	2	905	178	16.4	611
25 to 54 years .....	8,278	6,092	73.6	5,645	15	5,630	447	7.3	2,185
25 to 34 years .....	3,672	2,689	73.2	2,420	9	2,411	269	10.0	982
25 to 29 years .....	1,823	1,344	73.7	1,186	6	1,180	158	11.8	479
30 to 34 years .....	1,848	1,345	72.8	1,234	3	1,231	111	8.2	503
35 to 44 years .....	2,756	2,134	77.4	2,014	4	2,010	120	5.6	622
35 to 39 years .....	1,541	1,200	77.9	1,121	3	1,118	78	6.5	341
40 to 44 years .....	1,216	934	76.9	893	1	892	42	4.5	281
45 to 54 years .....	1,850	1,269	68.6	1,211	2	1,209	58	4.6	581
45 to 49 years .....	996	711	71.4	678	1	678	33	4.6	285
50 to 54 years .....	854	558	65.3	532	1	531	25	4.5	296
55 to 64 years .....	1,488	692	46.5	666	6	660	26	3.7	796
55 to 59 years .....	761	418	54.9	408	5	402	10	2.3	344
60 to 64 years .....	727	275	37.8	259	1	258	16	5.9	453
65 years and over .....	1,722	170	9.9	165		165	5	2.8	1,552
65 to 69 years .....	614	107	17.4	104		104	3	3.0	507
70 to 74 years .....	428	42	9.8	41		41	2	( <sup>1</sup> )	385
75 years and over .....	680	21	3.1	21		21	-	( <sup>1</sup> )	659

<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. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	183,620	185,402	80,002	81,001	89,010	89,954	14,609	14,447
Civilian labor force .....	120,206	122,120	62,075	62,792	50,492	51,786	7,639	7,542
Percent of population .....	65.5	65.9	77.6	77.5	56.7	57.6	52.3	52.2
Employed .....	113,679	115,978	59,035	59,858	48,146	49,601	6,498	6,519
Agriculture .....	2,874	2,870	2,121	2,120	578	589	175	161
Nonagricultural industries .....	110,805	113,108	56,914	57,738	47,568	49,012	6,323	6,358
Unemployed .....	6,526	6,142	3,040	2,934	2,346	2,186	1,141	1,023
Unemployment rate .....	5.4	5.0	4.9	4.7	4.6	4.2	14.9	13.6
Not in labor force .....	63,414	63,282	17,927	18,209	38,518	38,168	6,970	6,906
<b>White</b>								
Civilian noninstitutional population .....	157,552	158,705	69,504	70,213	76,145	76,770	11,903	11,722
Civilian labor force .....	103,443	104,972	54,197	54,731	42,659	43,748	6,587	6,494
Percent of population .....	65.7	66.1	78.0	77.9	56.0	57.0	55.3	55.4
Employed .....	98,639	100,423	51,873	52,466	41,004	42,218	5,761	5,739
Agriculture .....	2,691	2,696	1,963	1,971	558	566	170	159
Nonagricultural industries .....	95,948	97,727	49,910	50,495	40,447	41,652	5,592	5,581
Unemployed .....	4,804	4,549	2,323	2,264	1,655	1,530	826	755
Unemployment rate .....	4.6	4.3	4.3	4.1	3.9	3.5	12.5	11.6
Not in labor force .....	54,109	53,733	15,308	15,483	33,486	33,023	5,316	5,227
<b>Black</b>								
Civilian noninstitutional population .....	20,508	20,842	8,133	8,283	10,206	10,379	2,169	2,180
Civilian labor force .....	13,127	13,367	6,026	6,146	6,241	6,375	860	846
Percent of population .....	64.0	64.1	74.1	74.2	61.2	61.4	39.6	38.8
Employed .....	11,631	11,938	5,430	5,559	5,626	5,773	575	606
Agriculture .....	150	135	129	119	17	16	4	-
Nonagricultural industries .....	11,481	11,803	5,302	5,441	5,608	5,756	570	607
Unemployed .....	1,496	1,428	595	586	615	602	285	240
Unemployment rate .....	11.4	10.7	9.9	9.5	9.9	9.4	33.2	28.3
Not in labor force .....	7,381	7,475	2,107	2,137	3,965	4,004	1,309	1,334

**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 1988									
	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 .....	15,720	7,675	48.8	7,027	1,241	5,786	649	111	537	8.4
16 to 19 years .....	10,824	4,828	44.6	4,319	378	3,941	509	64	445	10.5
20 to 24 years .....	4,896	2,847	58.1	2,707	863	1,845	140	47	92	4.9
High school .....	7,917	3,376	42.6	2,943	197	2,746	433	52	382	12.8
College .....	7,803	4,299	55.1	4,084	1,043	3,040	215	60	155	5.0
Full-time students .....	6,744	3,338	49.5	3,150	416	2,734	188	45	143	5.6
Part-time students .....	1,059	961	90.7	934	628	306	27	14	13	2.8
Men, 16 to 24 years .....	7,984	3,719	46.6	3,361	627	2,735	358	61	296	9.6
16 to 19 years .....	5,473	2,339	42.7	2,056	209	1,847	283	38	245	12.1
20 to 24 years .....	2,511	1,380	55.0	1,305	417	888	75	24	51	5.4
High school .....	4,208	1,746	41.5	1,501	137	1,364	245	29	216	14.0
College .....	3,777	1,974	52.3	1,861	489	1,371	113	32	81	5.7
Full-time students .....	3,337	1,567	47.0	1,466	222	1,244	101	25	75	6.4
Part-time students .....	440	407	92.5	394	267	127	13	7	6	3.1
Women, 16 to 24 years .....	7,736	3,956	51.1	3,665	614	3,051	291	50	241	7.4
16 to 19 years .....	5,351	2,489	46.5	2,263	169	2,094	226	26	200	9.1
20 to 24 years .....	2,385	1,467	61.5	1,402	445	957	65	23	41	4.4
High school .....	3,710	1,631	44.0	1,442	60	1,382	189	22	166	11.6
College .....	4,026	2,325	57.7	2,223	554	1,669	102	27	75	4.4
Full-time students .....	3,407	1,771	52.0	1,684	193	1,491	87	20	67	4.9
Part-time students .....	619	554	89.4	539	361	178	15	7	7	2.6
<b>White</b>										
Total, 16 to 24 years .....	12,864	6,643	51.6	6,160	1,084	5,076	482	78	405	7.3
16 to 19 years .....	8,740	4,184	47.9	3,812	335	3,477	371	47	324	8.9
20 to 24 years .....	4,125	2,459	59.6	2,348	749	1,599	111	30	81	4.5
Men .....	6,547	3,211	49.0	2,931	534	2,397	280	46	234	8.7
Women .....	6,317	3,431	54.3	3,229	550	2,679	202	32	171	5.9
High school .....	6,223	2,890	46.4	2,579	172	2,407	312	38	274	10.8
College .....	6,641	3,752	56.5	3,582	912	2,670	171	40	131	4.5
Full-time students .....	5,712	2,887	50.5	2,740	354	2,386	147	28	119	5.1
Part-time students .....	929	865	93.1	842	558	284	23	12	12	2.7
<b>Black</b>										
Total, 16 to 24 years .....	2,104	748	35.5	610	113	497	138	19	119	18.4
16 to 19 years .....	1,619	494	30.5	377	31	346	117	10	107	23.7
20 to 24 years .....	485	254	52.3	233	82	151	21	9	12	8.2
Men .....	1,049	377	35.9	308	70	238	69	8	61	18.3
Women .....	1,055	371	35.1	302	43	259	69	10	58	18.5
High school .....	1,334	380	28.5	272	21	251	108	7	101	28.3
College .....	770	368	47.8	337	92	246	30	12	18	8.2
Full-time students .....	692	313	45.2	286	51	235	27	9	18	8.7
Part-time students .....	78	55	70.6	52	41	11	3	3	-	( <sup>2</sup> )
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,126	451	40.1	390	116	274	61	15	47	13.6
16 to 19 years .....	823	258	31.4	201	22	179	57	11	46	22.1
20 to 24 years .....	303	193	63.6	189	94	95	4	4	-	2.1
Men .....	556	241	43.3	202	64	138	39	6	30	16.2
Women .....	570	210	36.9	188	52	136	22	9	14	10.6
High school .....	657	186	28.3	139	20	118	47	11	36	25.4
College .....	468	265	56.6	251	95	156	14	4	10	5.3
Full-time students .....	338	144	42.7	135	19	116	9	-	9	6.4
Part-time students .....	130	120	92.3	116	76	40	5	4	1	3.9

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 1988									
	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 .....	16,947	13,938	82.2	12,454	10,731	1,723	1,484	1,328	156	10.6
16 to 19 years .....	3,623	2,714	74.9	2,200	1,675	525	514	430	84	18.9
20 to 24 years .....	13,324	11,225	84.2	10,254	9,056	1,198	970	898	72	8.6
Less than 4 years of high school .....	4,125	2,704	65.6	2,095	1,673	422	609	540	68	22.5
4 years of high school .....	8,744	7,420	84.9	6,696	5,794	902	724	650	74	9.8
1 to 3 years of college .....	2,608	2,409	92.4	2,295	1,999	296	114	103	11	4.7
4 years of college or more .....	1,471	1,406	95.6	1,368	1,265	103	38	35	3	2.7
Men, 16 to 24 years .....	8,102	7,410	91.5	6,571	5,931	640	839	778	60	11.3
16 to 19 years .....	1,784	1,496	83.9	1,196	964	232	300	260	41	20.1
20 to 24 years .....	6,318	5,914	93.6	5,375	4,968	408	538	519	20	9.1
Less than 4 years of high school .....	2,187	1,780	81.4	1,399	1,191	208	381	352	29	21.4
4 years of high school .....	4,150	3,921	94.5	3,534	3,232	303	386	362	24	9.9
1 to 3 years of college .....	1,145	1,104	96.4	1,049	946	103	55	48	8	5.0
4 years of college or more .....	619	605	97.6	589	563	26	16	16	-	2.7
Women, 16 to 24 years .....	8,845	6,528	73.8	5,883	4,799	1,083	646	550	96	9.9
16 to 19 years .....	1,839	1,217	66.2	1,004	712	292	214	170	43	17.5
20 to 24 years .....	7,006	5,311	75.8	4,879	4,088	791	432	379	53	8.1
Less than 4 years of high school .....	1,937	924	47.7	696	482	214	228	188	40	24.7
4 years of high school .....	4,594	3,499	76.2	3,161	2,562	600	337	288	50	9.6
1 to 3 years of college .....	1,462	1,305	89.2	1,246	1,053	193	59	55	4	4.5
4 years of college or more .....	851	801	94.1	779	702	77	22	19	3	2.7
<b>White</b>										
Total, 16 to 24 years .....	13,921	11,696	84.0	10,642	9,222	1,420	1,054	947	107	9.0
16 to 19 years .....	2,982	2,311	77.5	1,927	1,475	452	384	327	57	16.6
20 to 24 years .....	10,939	9,385	85.8	8,715	7,747	968	670	619	51	7.1
Men .....	6,734	6,256	92.9	5,629	5,084	545	628	595	33	10.0
Women .....	7,187	5,440	75.7	5,013	4,138	876	427	352	75	7.8
Less than 4 years of high school .....	3,306	2,250	68.1	1,814	1,471	344	436	395	41	19.4
4 years of high school .....	7,167	6,181	86.2	5,673	4,916	757	508	453	55	8.2
1 to 3 years of college .....	2,158	2,020	93.6	1,944	1,719	225	76	67	9	3.7
4 years of college or more .....	1,290	1,245	96.5	1,211	1,116	95	35	32	3	2.8
<b>Black</b>										
Total, 16 to 24 years .....	2,580	1,923	74.5	1,532	1,261	270	392	343	48	20.4
16 to 19 years .....	561	229	62.8	229	165	64	123	96	27	34.8
20 to 24 years .....	2,019	1,571	77.8	1,302	1,096	206	269	248	22	17.1
Men .....	1,167	987	84.6	791	705	86	196	169	27	19.9
Women .....	1,413	936	66.3	741	556	185	195	174	21	20.9
Less than 4 years of high school .....	718	391	54.5	225	164	61	167	139	28	42.6
4 years of high school .....	1,367	1,092	79.9	899	762	138	193	174	19	17.7
1 to 3 years of college .....	396	345	87.1	313	247	66	32	30	1	9.2
4 years of college or more .....	99	95	95.8	95	89	6	-	-	-	.1
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,113	1,567	74.1	1,419	1,220	200	147	129	19	9.4
16 to 19 years .....	546	386	70.7	308	244	65	78	64	14	20.1
20 to 24 years .....	1,567	1,181	75.3	1,111	976	135	70	65	5	5.9
Men .....	1,124	1,022	90.9	923	829	93	99	90	9	9.7
Women .....	989	545	55.1	497	391	106	48	38	10	8.9
Less than 4 years of high school .....	1,096	724	66.0	631	542	89	93	78	14	12.8
4 years of high school .....	779	625	80.2	576	499	77	49	47	3	7.9
1 to 3 years of college .....	197	183	93.0	181	150	31	2	-	2	1.1
4 years of college or more .....	41	35	( <sup>2</sup> )	32	29	2	4	4	-	( <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. 1987	Dec. 1988	Total		Employed		Unemployed			
			Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Number		Percent of labor force	
							Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,863	7,903	7,242	7,248	6,902	6,981	340	287	4.7	4.0
30 to 44 years .....	6,083	5,729	5,786	5,424	5,481	5,212	305	212	5.3	3.9
30 to 34 years .....	813	592	766	559	687	525	79	34	10.3	6.1
35 to 39 years .....	2,402	1,969	2,304	1,882	2,185	1,798	119	88	5.2	4.6
40 to 44 years .....	2,868	3,168	2,716	2,983	2,609	2,891	107	92	3.9	3.1
45 years and over .....	1,780	2,174	1,456	1,824	1,421	1,749	35	75	2.4	4.1
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	19,908	20,885	18,727	19,692	17,943	18,916	784	776	4.2	3.9
30 to 34 years .....	8,974	9,221	8,487	8,732	8,091	8,390	396	342	4.7	3.9
35 to 39 years .....	6,501	7,077	6,113	6,655	5,886	6,397	227	258	3.7	3.9
40 to 44 years .....	4,433	4,587	4,127	4,305	3,966	4,129	161	176	3.9	4.1

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 1988							
	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 .....	95,261	93,381	1,880	20,717	17,358	3,359	5,008	1,134
16 to 19 years .....	2,054	1,964	90	4,465	4,087	378	494	529
16 to 17 years .....	187	174	13	2,347	2,267	80	102	346
18 to 19 years .....	1,867	1,790	77	2,118	1,820	298	391	183
20 years and over .....	93,207	91,417	1,790	16,251	13,270	2,981	4,514	606
20 to 24 years .....	9,919	9,646	273	3,043	2,474	569	945	165
25 years and over .....	83,288	81,771	1,517	13,208	10,796	2,412	3,569	441
25 to 54 years .....	72,159	70,811	1,348	9,485	7,445	2,040	3,215	336
55 years and over .....	11,129	10,960	169	3,723	3,351	372	354	105
<b>Men, 16 years and over .....</b>	<b>56,378</b>	<b>55,235</b>	<b>1,143</b>	<b>6,732</b>	<b>5,408</b>	<b>1,324</b>	<b>3,023</b>	<b>494</b>
16 to 19 years .....	1,173	1,119	54	2,079	1,878	201	297	286
20 years and over .....	55,205	54,116	1,089	4,652	3,529	1,123	2,726	208
20 to 24 years .....	5,386	5,218	168	1,295	1,050	245	542	71
25 years and over .....	49,821	48,899	922	3,358	2,480	878	2,184	136
25 to 54 years .....	42,855	42,033	822	1,831	1,097	734	1,950	82
55 years and over .....	6,966	6,866	100	1,527	1,383	144	234	55
<b>Women, 16 years and over .....</b>	<b>38,883</b>	<b>38,146</b>	<b>737</b>	<b>13,985</b>	<b>11,950</b>	<b>2,035</b>	<b>1,985</b>	<b>641</b>
16 to 19 years .....	881	845	36	2,386	2,209	177	196	243
20 years and over .....	38,002	37,301	701	11,598	9,741	1,857	1,788	397
20 to 24 years .....	4,533	4,428	105	1,748	1,425	323	403	94
25 years and over .....	33,467	32,872	595	9,851	8,317	1,534	1,385	304
25 to 54 years .....	29,304	28,778	526	7,655	6,349	1,306	1,265	254
55 years and over .....	4,164	4,094	70	2,196	1,968	228	120	50
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>49,484</b>	<b>48,522</b>	<b>962</b>	<b>5,853</b>	<b>4,795</b>	<b>1,058</b>	<b>2,337</b>	<b>372</b>
16 to 19 years .....	1,034	994	40	1,837	1,663	174	236	209
20 years and over .....	48,450	47,528	922	4,017	3,133	884	2,100	164
20 to 24 years .....	4,584	4,447	137	1,105	907	198	404	58
25 years and over .....	43,866	43,081	785	2,911	2,226	685	1,696	106
25 to 54 years .....	37,601	36,905	696	1,502	939	563	1,507	62
55 years and over .....	6,265	6,176	89	1,409	1,287	122	189	44
<b>Women, 16 years and over .....</b>	<b>32,754</b>	<b>32,154</b>	<b>600</b>	<b>12,331</b>	<b>10,719</b>	<b>1,612</b>	<b>1,342</b>	<b>498</b>
16 to 19 years .....	775	743	32	2,092	1,937	155	138	172
20 years and over .....	31,979	31,411	568	10,238	8,782	1,456	1,204	326
20 to 24 years .....	3,912	3,824	88	1,463	1,221	242	245	73
25 years and over .....	28,066	27,587	479	8,777	7,562	1,215	959	253
25 to 54 years .....	24,476	24,050	426	6,837	5,815	1,022	860	212
55 years and over .....	3,590	3,537	53	1,938	1,746	192	98	41
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,212</b>	<b>5,068</b>	<b>144</b>	<b>651</b>	<b>414</b>	<b>237</b>	<b>597</b>	<b>120</b>
16 to 19 years .....	113	103	10	191	169	22	56	74
20 years and over .....	5,100	4,966	134	459	245	214	541	46
20 to 24 years .....	662	631	31	132	87	45	121	14
25 years and over .....	4,438	4,335	103	326	157	169	419	32
25 to 54 years .....	3,905	3,812	93	234	85	149	378	20
55 years and over .....	533	523	10	92	72	20	41	12
<b>Women, 16 years and over .....</b>	<b>4,807</b>	<b>4,701</b>	<b>106</b>	<b>1,268</b>	<b>910</b>	<b>358</b>	<b>588</b>	<b>124</b>
16 to 19 years .....	82	78	4	220	200	20	49	61
20 years and over .....	4,724	4,622	102	1,048	710	338	539	63
20 to 24 years .....	516	503	13	224	149	75	135	19
25 years and over .....	4,208	4,120	88	825	562	263	404	44
25 to 54 years .....	3,749	3,671	78	615	380	235	383	37
55 years and over .....	458	449	9	210	182	28	21	7

24 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 1988									
	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> .....	98,312	66.2	93,356	4,956	5.0	50,251	22,495	8,497	2,293	16,966
Husbands .....	39,701	78.1	38,466	1,236	3.1	11,154	237	246	888	9,784
With employed wife .....	25,982	91.8	25,292	689	2.7	2,332	99	129	322	1,781
With unemployed wife .....	847	93.3	703	144	17.0	61	1	-	13	47
With wife not in labor force .....	12,872	59.5	12,471	402	3.1	8,762	137	116	553	7,956
Wives .....	29,221	57.5	28,314	908	3.1	21,634	17,658	441	392	3,143
With employed husband .....	25,995	67.6	25,292	703	2.7	12,471	11,123	342	180	826
With unemployed husband .....	834	67.5	689	144	17.3	402	356	18	7	21
With husband not in labor force .....	2,392	21.4	2,332	61	2.5	8,762	6,179	81	206	2,296
Relatives in married-couple families .....	12,822	61.9	11,629	1,192	9.3	7,905	715	5,595	301	1,294
16 to 19 years .....	4,806	51.5	4,285	521	10.8	4,530	84	4,252	10	183
20 to 24 years .....	4,534	74.5	4,151	383	8.5	1,553	138	1,201	37	177
25 years and over .....	3,481	65.6	3,193	288	8.3	1,822	493	142	254	934
Women who maintain families .....	6,961	62.7	6,435	526	7.6	4,135	2,833	195	206	901
Relatives in families maintained by women .....	5,714	60.2	4,921	793	13.9	3,771	679	1,658	342	1,093
16 to 19 years .....	1,431	47.5	1,125	306	21.4	1,580	89	1,335	11	144
20 to 24 years .....	1,574	75.9	1,358	216	13.7	501	84	261	34	122
25 years and over .....	2,709	61.6	2,438	271	10.0	1,690	506	62	297	827
Men who maintain families .....	2,118	76.5	2,000	119	5.6	651	51	35	80	487
Relatives in families maintained by men .....	1,775	63.9	1,591	183	10.3	1,001	322	327	84	268
16 to 19 years .....	329	54.1	268	61	18.5	278	8	244	2	24
20 to 24 years .....	486	78.2	440	47	9.6	136	41	61	2	32
25 years and over .....	958	62.0	883	75	7.8	587	273	22	80	212

<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. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
Total, 16 years and over .....	3,711	3,517	5.6	5.3	2,816	2,625	5.2	4.7
Married, spouse present .....	1,482	1,343	3.5	3.2	1,169	1,004	3.9	3.3
Widowed, divorced, or separated .....	477	463	7.4	6.9	619	591	5.8	5.4
Single (never married) .....	1,752	1,711	10.1	9.5	1,027	1,030	7.4	7.3
White, 16 years and over .....	2,826	2,709	4.9	4.7	1,978	1,840	4.3	3.9
Married, spouse present .....	1,234	1,124	3.3	3.0	958	838	3.6	3.1
Widowed, divorced, or separated .....	391	349	7.3	6.3	436	394	5.1	4.5
Single (never married) .....	1,201	1,236	8.3	8.3	583	608	5.3	5.4
Black, 16 years and over .....	750	716	11.6	10.9	746	712	11.2	10.5
Married, spouse present .....	193	186	5.9	6.0	163	143	6.6	5.9
Widowed, divorced, or separated .....	79	92	8.7	9.8	171	183	9.3	9.0
Single (never married) .....	478	439	20.8	17.2	413	386	17.6	16.5
Total, 25 years and over .....	2,409	2,320	4.4	4.2	1,854	1,689	4.3	3.8
Married, spouse present .....	1,333	1,242	3.3	3.1	956	822	3.5	2.9
Widowed, divorced, or separated .....	454	450	7.3	6.9	562	550	5.5	5.2
Single (never married) .....	622	628	7.6	7.2	338	316	5.7	5.0
White, 25 years and over .....	1,894	1,801	4.0	3.7	1,350	1,211	3.7	3.2
Married, spouse present .....	1,102	1,027	3.1	2.8	788	683	3.3	2.7
Widowed, divorced, or separated .....	369	339	7.1	6.3	397	366	4.9	4.4
Single (never married) .....	422	435	6.3	6.1	165	162	3.7	3.4
Black, 25 years and over .....	438	451	8.6	8.7	446	448	8.4	8.2
Married, spouse present .....	179	183	5.8	6.2	130	125	5.7	5.6
Widowed, divorced, or separated .....	78	91	8.7	9.9	152	172	8.6	8.8
Single (never married) .....	181	177	16.1	13.2	164	152	13.0	11.8

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
Total, 16 years and over .....	6,526	6,142	5.4	5.0	5.6	5.3	5.2	4.7
Managerial and professional specialty .....	605	503	2.1	1.7	2.1	1.7	2.0	1.6
Executive, administrative, and managerial .....	342	308	2.5	2.1	2.4	2.0	2.6	2.3
Professional specialty .....	263	195	1.7	1.2	1.8	1.3	1.6	1.2
Technical, sales, and administrative support .....	1,329	1,321	3.6	3.5	2.9	3.2	3.9	3.7
Technicians and related support .....	93	89	2.7	2.4	2.1	2.5	3.3	2.3
Sales occupations .....	564	597	3.9	4.0	2.7	3.2	5.1	4.8
Administrative support, including clerical .....	671	635	3.5	3.4	3.7	3.5	3.4	3.3
Service occupations .....	1,146	1,042	7.0	6.2	6.8	6.4	7.1	6.1
Private household .....	60	60	6.1	5.8	( <sup>1</sup> )	( <sup>1</sup> )	6.0	5.5
Protective service .....	76	79	3.7	4.0	2.8	4.2	9.2	3.0
Service, except private household and protective .....	1,011	903	7.5	6.6	8.2	7.2	7.2	6.3
Precision production, craft, and repair .....	738	756	5.2	5.3	5.3	5.2	4.1	6.0
Mechanics and repairers .....	172	175	3.8	3.9	3.8	3.8	3.1	4.7
Construction trades .....	406	403	7.5	7.3	7.3	7.2	13.9	13.3
Other precision production, craft, and repair .....	160	178	3.8	4.1	4.0	3.8	3.1	5.2
Operators, fabricators, and laborers .....	1,667	1,600	8.7	8.2	8.7	8.2	8.5	8.4
Machine operators, assemblers, and inspectors .....	683	684	7.9	7.6	7.4	6.6	8.4	9.0
Transportation and material moving occupations .....	380	285	7.5	5.5	7.5	5.9	7.5	1.9
Handlers, equipment cleaners, helpers, and laborers .....	604	631	11.0	11.8	11.4	12.4	9.3	9.1
Construction laborers .....	193	218	19.7	23.4	18.9	22.6	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	411	413	9.2	9.4	9.4	9.8	8.1	7.8
Farming, forestry, and fishing .....	286	243	8.7	7.5	9.0	7.4	7.4	7.9
No previous work experience .....	727	639						
16 to 19 years .....	486	436						
20 to 24 years .....	112	105						
25 years and over .....	129	98						

<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. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
Total, 16 years and over .....	6,526	6,142	5.4	5.0	5.6	5.3	5.2	4.7
Nonagricultural private wage and salary workers .....	4,901	4,725	5.4	5.2	5.7	5.4	5.2	4.8
Mining .....	68	54	7.9	7.4	8.3	7.9	6.2	4.6
Construction .....	679	678	11.1	10.8	11.5	11.0	7.2	8.6
Manufacturing .....	1,081	1,121	5.0	5.1	4.6	4.6	6.0	6.0
Durable goods .....	598	634	4.7	4.9	4.6	4.5	5.1	6.2
Lumber and wood products .....	47	46	6.8	5.9	7.0	5.6	5.7	7.5
Furniture and fixtures .....	39	37	6.1	5.7	7.0	5.6	4.3	6.1
Stone, clay, and glass products .....	27	41	4.2	6.5	4.3	6.0	3.6	8.7
Primary metal industries .....	38	49	4.6	5.4	4.4	5.9	6.0	1.7
Fabricated metal products .....	87	68	6.2	4.9	6.4	4.8	5.7	5.6
Machinery, except electrical .....	93	115	3.8	4.5	3.4	3.8	5.1	6.5
Electrical machinery, equipment, and supplies .....	80	89	3.8	4.2	2.7	3.7	5.3	5.0
Transportation equipment .....	154	143	5.7	5.5	5.4	4.4	7.1	9.5
Automobiles .....	79	84	6.3	6.4	6.2	5.2	6.3	10.6
Other transportation equipment .....	76	58	5.3	4.5	4.6	3.6	7.9	8.4
Professional and photographic equipment .....	18	21	2.8	2.8	2.9	2.8	2.6	2.9
Other durable goods industries .....	15	26	2.7	5.1	3.0	2.8	2.4	7.5
Nondurable goods .....	483	487	5.5	5.4	4.5	4.9	6.8	5.9
Food and kindred products .....	124	153	7.0	7.9	6.9	6.8	7.2	10.0
Textile mill products .....	51	32	6.5	4.7	3.8	6.2	8.9	3.1
Apparel and other textile products .....	107	96	8.8	7.3	7.8	5.8	9.1	7.9
Paper and allied products .....	25	32	3.6	4.3	3.6	2.8	3.6	9.2
Printing and publishing .....	73	70	3.9	3.8	3.3	5.0	4.6	2.5
Chemicals and allied products .....	48	38	3.6	3.0	2.6	2.8	6.1	3.3
Rubber and miscellaneous plastics products .....	36	36	4.7	4.0	4.7	4.0	4.7	4.0
Other nondurable goods industries .....	20	29	5.6	7.4	3.5	6.6	9.4	8.6
Transportation and public utilities .....	279	228	4.3	3.6	4.5	3.9	3.9	2.9
Transportation .....	229	185	6.2	4.8	6.4	5.2	5.5	3.7
Communications and other public utilities .....	50	43	1.8	1.7	1.4	1.4	2.5	2.1
Wholesale and retail trade .....	1,311	1,362	5.7	5.8	5.5	5.6	5.8	6.0
Wholesale trade .....	158	232	3.7	5.2	3.9	5.3	3.3	5.1
Retail trade .....	1,153	1,130	6.1	5.9	6.1	5.7	6.1	6.1
Finance, insurance, and real estate .....	230	211	3.1	2.9	3.5	3.3	2.9	2.6
Service industries .....	1,253	1,070	5.1	4.3	5.2	4.4	5.0	4.2
Professional services .....	468	346	3.4	2.4	2.9	2.1	3.6	2.6
Other service industries .....	785	724	7.3	6.6	7.0	6.2	7.5	7.0
Agricultural wage and salary workers .....	222	176	13.6	10.4	14.4	10.2	11.0	11.4
Government, self-employed, and unpaid family workers .....	676	602	2.4	2.1	2.5	2.3	2.3	2.0
No previous work experience .....	727	639	-	-	-	-	-	-

**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. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,526	6,142	3,040	2,934	2,346	2,186	1,141	1,023	4,804	4,549	1,496	1,428
Job losers .....	3,206	3,078	2,068	1,958	956	909	181	211	2,427	2,315	665	692
On layoff .....	909	866	585	582	290	244	34	39	788	708	99	130
Other job losers .....	2,297	2,212	1,483	1,376	666	665	147	172	1,639	1,607	566	562
Job leavers .....	856	903	370	430	357	331	129	142	682	716	153	162
Reentrants .....	1,738	1,523	521	466	873	823	345	234	1,208	1,082	454	385
New entrants .....	727	638	81	80	160	122	486	435	487	436	224	189
<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 .....	49.1	50.1	68.0	66.8	40.8	41.6	15.9	20.7	50.5	50.9	44.4	48.4
On layoff .....	13.9	14.1	19.2	19.9	12.4	11.2	3.0	3.8	16.4	15.6	6.6	9.1
Other job losers .....	35.2	36.0	48.8	46.9	28.4	30.4	12.9	16.9	34.1	35.3	37.8	39.3
Job leavers .....	13.1	14.7	12.2	14.6	15.2	15.2	11.3	13.9	14.2	15.7	10.2	11.4
Reentrants .....	26.6	24.8	17.1	15.9	37.2	37.7	30.2	22.9	25.1	23.8	30.3	26.9
New entrants .....	11.1	10.4	2.7	2.7	6.8	5.6	42.6	42.6	10.1	9.6	15.0	13.3
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.7	2.5	3.3	3.1	1.9	1.8	2.4	2.8	2.4	2.2	5.1	5.2
Job leavers .....	.7	.7	.6	.7	.7	.6	1.7	1.9	.7	.7	1.2	1.2
Reentrants .....	1.4	1.2	.8	.7	1.7	1.6	4.5	3.1	1.2	1.0	3.5	2.9
New entrants .....	.6	.5	.1	.1	.3	.2	6.4	5.8	.5	.4	1.7	1.4

**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 1988						
	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 .....	6,142	100.0	44.0	33.3	22.7	11.4	11.3
Job losers .....	3,078	100.0	39.0	35.4	25.6	12.0	13.6
On layoff .....	866	100.0	53.5	32.4	14.1	7.9	6.2
Other job losers .....	2,212	100.0	33.3	36.6	30.1	13.6	16.5
Job leavers .....	903	100.0	49.5	32.2	18.3	10.5	7.8
Reentrants .....	1,523	100.0	47.1	31.3	21.6	10.9	10.7
New entrants .....	638	100.0	52.7	29.6	17.8	10.9	6.9
Men, 20 years and over .....	2,934	100.0	38.8	33.7	27.6	11.3	16.3
Job losers .....	1,958	100.0	37.7	34.8	27.6	11.2	16.4
On layoff .....	582	100.0	53.1	31.1	15.8	8.3	7.5
Other job losers .....	1,376	100.0	31.1	36.3	32.5	12.4	20.1
Job leavers .....	430	100.0	46.6	30.1	23.3	11.5	11.8
Reentrants .....	466	100.0	36.2	31.6	32.2	10.8	21.4
New entrants .....	80	100.0	38.8	37.7	23.5	15.1	8.4
Women, 20 years and over .....	2,186	100.0	44.0	35.1	20.9	12.6	8.2
Job losers .....	909	100.0	36.3	38.5	25.3	14.8	10.4
On layoff .....	244	100.0	49.9	38.5	11.6	7.4	4.2
Other job losers .....	665	100.0	31.2	38.5	30.3	17.6	12.7
Job leavers .....	331	100.0	47.4	36.4	16.3	10.6	5.7
Reentrants .....	823	100.0	50.7	31.9	17.4	11.8	5.6
New entrants .....	122	100.0	47.7	28.5	23.8	7.2	16.7
Both sexes, 16 to 19 years .....	1,023	100.0	58.8	28.3	12.8	9.1	3.7
Job losers .....	211	100.0	63.1	27.9	9.0	7.5	1.5
On layoff .....	39	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	172	100.0	59.0	30.8	10.2	8.1	2.1
Job leavers .....	142	100.0	63.0	29.1	7.9	7.4	.4
Reentrants .....	234	100.0	56.4	28.4	15.2	7.7	7.5
New entrants .....	435	100.0	56.6	28.4	15.0	11.2	3.8

<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. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
Total, 16 years and over .....	6,526	6,142	100.0	100.0	5,233	5,008	100.0	100.0
Less than 5 weeks .....	2,871	2,701	44.0	44.0	2,143	2,040	41.0	40.7
5 to 14 weeks .....	1,991	2,045	30.5	33.3	1,641	1,707	31.4	34.1
5 to 10 weeks .....	1,448	1,469	22.2	23.9	1,184	1,208	22.6	24.1
11 to 14 weeks .....	543	577	8.3	9.4	458	498	8.8	9.9
15 weeks and over .....	1,665	1,396	25.5	22.7	1,449	1,261	27.7	25.2
15 to 26 weeks .....	813	701	12.5	11.4	683	611	13.1	12.2
27 weeks and over .....	851	696	13.0	11.3	766	649	14.6	13.0
27 to 51 weeks .....	283	252	4.3	4.1	245	237	4.7	4.7
52 weeks and over .....	568	444	8.7	7.2	522	412	10.0	8.2
Average (mean) duration, in weeks .....	14.6	13.2			15.9	14.4		
Median duration, in weeks .....	6.3	6.1			7.0	6.7		



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
	December 1988										
Total, 16 years and over .....	6,142	2,701	2,045	701	696	13.2	6.1	44.0	44.0	25.5	22.7
16 to 19 years .....	1,023	601	290	93	38	7.6	4.3	54.1	58.8	17.3	12.8
20 to 24 years .....	1,110	580	329	137	65	10.1	4.8	49.2	52.2	19.1	18.2
25 to 34 years .....	1,758	732	613	193	220	13.2	6.5	42.6	41.7	24.9	23.5
35 to 44 years .....	1,113	424	419	130	139	14.9	6.9	38.6	38.1	33.0	24.2
45 to 54 years .....	680	197	257	88	138	19.1	9.3	36.6	28.9	33.0	33.3
55 to 64 years .....	369	146	99	44	79	19.7	7.5	35.6	39.7	33.7	33.5
65 years and over .....	90	20	38	14	17	22.2	11.3	39.9	22.6	40.5	34.6
Men, 16 years and over .....	3,517	1,495	1,132	385	505	14.9	6.4	42.6	42.5	26.9	25.3
16 to 19 years .....	583	357	145	54	27	8.1	4.1	52.4	61.3	15.7	13.9
20 to 24 years .....	614	334	157	79	44	10.8	4.6	46.7	54.4	21.7	20.0
25 to 34 years .....	970	378	351	87	155	14.5	6.8	41.0	38.9	27.1	24.9
35 to 44 years .....	630	215	251	74	89	16.2	7.5	39.3	34.2	35.3	25.9
45 to 54 years .....	432	113	138	57	124	23.8	11.6	36.4	26.2	33.7	41.8
55 to 64 years .....	233	86	68	25	53	21.7	8.2	30.0	36.8	37.3	33.7
65 years and over .....	56	11	22	9	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,625	1,206	913	316	190	10.9	5.8	45.8	45.9	23.6	19.3
16 to 19 years .....	440	244	145	40	11	7.0	4.5	56.6	55.5	19.6	11.4
20 to 24 years .....	497	246	172	58	21	9.3	5.1	52.4	49.5	15.7	15.9
25 to 34 years .....	787	354	262	106	65	11.6	6.0	44.6	45.0	21.9	21.7
35 to 44 years .....	483	209	168	56	50	13.2	6.3	37.8	43.2	30.2	22.0
45 to 54 years .....	249	84	119	32	14	11.1	6.7	36.9	33.7	31.9	18.5
55 to 64 years .....	136	61	30	19	26	16.3	6.3	43.6	44.5	28.7	33.2
65 years and over .....	34	9	16	5	3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,549	2,066	1,472	514	497	13.0	5.9	45.1	45.4	24.1	22.2
Men .....	2,709	1,201	842	284	381	14.7	6.1	44.4	44.3	25.6	24.6
Women .....	1,840	865	630	230	116	10.4	5.6	46.1	47.0	22.0	18.8
Black, 16 years and over .....	1,428	563	519	163	183	14.0	7.0	40.8	39.4	29.5	24.3
Men .....	716	257	258	87	114	15.6	7.9	37.3	35.8	31.3	28.2
Women .....	712	306	260	76	69	12.5	6.3	44.5	43.1	27.6	20.4
Men, 16 years and over:											
Married, spouse present .....	1,343	449	484	152	258	18.4	8.4	39.4	33.5	31.2	30.5
Widowed, divorced, or separated .....	463	174	168	51	70	15.4	6.7	40.1	37.6	31.9	26.1
Single (never married) .....	1,711	871	480	182	177	12.0	4.9	46.0	50.9	21.9	21.0
Women, 16 years and over:											
Married, spouse present .....	1,004	466	326	141	71	10.6	5.7	44.5	46.4	20.7	21.2
Widowed, divorced, or separated .....	591	223	228	76	65	13.4	6.9	41.0	37.8	30.2	23.7
Single (never married) .....	1,030	517	360	99	54	9.9	5.0	50.1	50.2	23.0	14.9

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	
								Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
	December 1988										
<b>OCCUPATION</b>											
Managerial and professional specialty .....	503	188	170	82	63	14.7	7.5	42.4	37.4	23.6	28.8
Technical, sales, and administrative support .....	1,321	564	459	171	127	12.3	6.3	42.3	42.7	27.1	22.5
Service occupations .....	1,042	514	337	93	99	12.0	5.2	42.4	49.3	24.5	18.4
Precision production, craft, and repair .....	756	325	235	90	107	14.3	6.5	47.0	42.9	25.2	26.0
Operators, fabricators, and laborers .....	1,600	667	540	165	228	14.9	6.3	43.5	41.7	26.8	24.6
Farming, forestry, and fishing .....	243	89	100	26	28	13.3	7.0	46.5	36.7	20.2	22.4
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	176	68	78	16	14	9.8	6.2	48.4	38.7	19.5	16.9
Construction .....	698	346	225	65	62	11.6	5.1	46.1	49.6	21.2	18.2
Manufacturing .....	1,122	396	400	157	169	15.8	8.2	41.8	35.3	32.2	29.0
Durable goods .....	635	226	203	95	110	16.6	8.9	39.8	35.6	34.2	32.4
Nondurable goods .....	487	170	197	61	59	14.8	7.6	44.2	34.9	29.8	24.7
Transportation and public utilities .....	255	92	82	34	48	17.0	8.4	46.2	35.9	22.6	32.0
Wholesale and retail trade .....	1,365	623	430	149	163	13.8	5.9	41.8	45.7	25.1	22.8
Finance and service industries .....	1,498	667	522	162	147	12.2	6.0	44.8	44.5	23.4	20.6
Public administration .....	173	58	61	27	28	16.4	10.2	30.4	33.3	34.9	31.8
No previous work experience .....	639	337	189	70	44	10.7	4.7	49.1	52.8	24.5	17.7

<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 1988								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	Other	
Total, 16 years and over .....	6,142	5,168	20.3	6.5	74.8	33.5	18.2	5.3	1.59
16 to 19 years .....	1,023	961	8.5	2.5	86.2	19.4	14.8	2.8	1.34
20 to 24 years .....	1,110	955	23.7	6.4	71.8	35.9	20.2	5.9	1.64
25 to 34 years .....	1,758	1,447	21.3	6.2	71.9	37.7	19.1	5.0	1.61
35 to 44 years .....	1,113	900	23.4	9.2	73.6	40.8	18.3	5.4	1.71
45 to 54 years .....	680	551	28.9	11.3	71.1	32.5	18.1	8.3	1.70
55 to 64 years .....	369	274	17.2	4.7	73.0	33.2	16.8	5.1	1.50
65 years and over .....	90	81	19.8	6.2	72.8	25.9	23.5	11.1	1.59
Men, 16 years and over .....	3,517	2,836	20.9	6.2	75.8	30.6	21.5	5.5	1.61
16 to 19 years .....	583	540	8.5	2.6	85.9	20.2	16.7	1.7	1.36
20 to 24 years .....	614	505	25.1	6.3	72.5	32.1	24.4	5.0	1.65
25 to 34 years .....	970	737	22.5	5.0	72.0	31.9	27.7	3.9	1.63
35 to 44 years .....	630	490	22.9	9.8	76.3	40.6	19.0	8.0	1.77
45 to 54 years .....	432	340	30.6	10.0	72.9	30.3	21.2	11.8	1.77
55 to 64 years .....	233	170	15.3	4.1	77.1	29.4	10.6	4.1	1.41
65 years and over .....	56	53	( <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 .....	2,625	2,332	19.6	6.9	73.6	37.0	14.2	5.0	1.56
16 to 19 years .....	440	421	8.6	2.1	86.5	18.5	12.4	4.3	1.32
20 to 24 years .....	497	450	22.0	6.7	71.1	40.2	15.6	6.9	1.62
25 to 34 years .....	787	709	20.0	7.3	71.8	44.0	10.4	6.1	1.60
35 to 44 years .....	483	409	24.2	8.6	70.4	41.1	17.6	2.4	1.64
45 to 54 years .....	249	210	26.7	13.3	69.0	36.2	13.3	2.9	1.61
55 to 64 years .....	136	104	20.2	4.8	67.3	39.4	26.9	5.8	1.64
65 years and over .....	34	28	( <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 .....	4,549	3,764	20.2	7.1	74.5	35.2	17.8	5.2	1.60
Men .....	2,709	2,135	20.8	7.0	75.6	32.6	20.2	6.3	1.63
Women .....	1,840	1,629	19.5	7.3	73.1	38.7	14.5	3.8	1.57
Black, 16 years and over .....	1,428	1,279	20.6	4.7	76.5	29.1	19.7	5.0	1.56
Men .....	716	635	20.8	3.3	77.0	25.0	26.1	3.0	1.55
Women .....	712	643	20.7	6.2	76.2	33.0	13.5	7.0	1.57

<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 1988								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	Other	
Total, 16 years and over .....	6,142	5,168	20.3	6.5	74.8	33.5	18.2	5.3	1.59
Job losers <sup>1</sup> .....	3,078	2,198	27.3	7.6	76.2	35.5	21.7	5.1	1.73
Job leavers .....	903	889	17.3	7.3	76.4	40.0	17.5	3.3	1.62
Reentrants .....	1,523	1,453	15.6	6.1	69.9	33.3	14.4	7.7	1.47
New entrants .....	638	628	11.3	2.5	79.6	17.7	16.2	3.2	1.31
Men, 16 years and over .....	3,517	2,836	20.9	6.2	75.8	30.6	21.5	5.5	1.61
Job losers <sup>1</sup> .....	2,101	1,478	26.5	7.4	76.6	33.0	22.5	6.3	1.72
Job leavers .....	504	494	16.4	7.5	76.5	37.0	21.3	2.6	1.61
Reentrants .....	588	544	16.0	4.4	72.8	27.4	18.8	7.5	1.47
New entrants .....	324	320	10.0	1.9	76.9	15.0	21.9	2.8	1.28
Women, 16 years and over .....	2,625	2,332	19.6	6.9	73.6	37.0	14.2	5.0	1.56
Job losers <sup>1</sup> .....	977	721	28.8	8.2	75.2	40.6	19.8	2.5	1.75
Job leavers .....	400	395	18.2	6.8	75.9	43.8	12.9	4.1	1.62
Reentrants .....	935	908	15.3	7.3	68.4	36.9	11.8	7.6	1.47
New entrants .....	314	309	12.6	3.2	81.9	20.4	10.0	3.6	1.32

<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. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
All industries .....	113,679	115,978	62,265	63,111	51,414	52,867
16 to 19 years .....	6,498	6,519	3,230	3,252	3,268	3,267
16 to 17 years .....	2,673	2,534	1,305	1,220	1,368	1,314
18 to 19 years .....	3,825	3,985	1,925	2,032	1,900	1,953
20 to 24 years .....	13,259	12,961	6,797	6,681	6,462	6,281
25 to 54 years .....	79,170	81,645	43,621	44,686	35,550	36,959
25 to 34 years .....	33,450	33,938	18,567	18,806	14,883	15,132
35 to 44 years .....	27,774	28,892	15,131	15,628	12,643	13,265
45 to 54 years .....	17,946	18,815	9,923	10,252	8,024	8,563
55 to 64 years .....	11,625	11,589	6,715	6,562	4,910	5,027
55 to 59 years .....	6,966	6,964	3,996	3,915	2,970	3,049
60 to 64 years .....	4,659	4,625	2,719	2,647	1,940	1,978
65 years and over .....	3,126	3,264	1,902	1,931	1,224	1,333
Agriculture .....	2,874	2,870	2,266	2,235	608	635
16 to 19 years .....	175	161	144	114	31	47
16 to 17 years .....	92	78	75	52	17	26
18 to 19 years .....	83	84	69	63	14	21
20 to 24 years .....	296	339	267	271	29	67
25 to 54 years .....	1,716	1,689	1,291	1,301	425	389
25 to 34 years .....	709	754	550	581	160	173
35 to 44 years .....	540	516	398	398	142	118
45 to 54 years .....	466	419	343	322	123	97
55 to 64 years .....	422	426	325	341	97	85
55 to 59 years .....	213	242	164	200	49	42
60 to 64 years .....	209	184	161	141	48	43
65 years and over .....	265	255	239	207	27	47
Nonagricultural industries .....	110,805	113,108	59,999	60,876	50,806	52,232
16 to 19 years .....	6,323	6,358	3,086	3,138	3,238	3,220
16 to 17 years .....	2,582	2,456	1,230	1,168	1,352	1,288
18 to 19 years .....	3,742	3,902	1,856	1,970	1,886	1,932
20 to 24 years .....	12,963	12,623	6,530	6,409	6,433	6,214
25 to 54 years .....	77,454	79,955	42,330	43,385	35,124	36,571
25 to 34 years .....	32,741	33,183	18,017	18,224	14,723	14,959
35 to 44 years .....	27,234	28,376	14,733	15,230	12,501	13,146
45 to 54 years .....	17,480	18,395	9,580	9,930	7,900	8,465
55 to 64 years .....	11,203	11,163	6,390	6,221	4,813	4,942
55 to 59 years .....	6,753	6,722	3,832	3,715	2,921	3,007
60 to 64 years .....	4,450	4,440	2,558	2,506	1,892	1,935
65 years and over .....	2,861	3,009	1,663	1,723	1,198	1,286

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
Total .....	113,679	115,978	62,265	63,111	59,035	59,858	51,414	52,867	48,146	49,601
Managerial and professional specialty .....	28,519	29,754	15,796	16,256	15,688	16,177	12,723	13,498	12,607	13,379
Executive, administrative, and managerial .....	13,546	14,306	8,371	8,647	8,320	8,607	5,175	5,659	5,134	5,609
Officials and administrators, public administration .....	574	580	374	362	374	362	200	219	200	218
Other executive, administrative, and managerial .....	9,370	9,981	6,205	6,515	6,164	6,479	3,164	3,465	3,136	3,424
Management-related occupations .....	3,603	3,745	1,792	1,770	1,782	1,766	1,811	1,975	1,798	1,968
Professional specialty .....	14,972	15,449	7,425	7,609	7,368	7,571	7,548	7,839	7,473	7,770
Engineers .....	1,801	1,716	1,673	1,609	1,672	1,609	128	107	128	107
Mathematical and computer scientists .....	710	729	470	487	469	486	241	242	241	241
Natural scientists .....	388	369	293	255	293	255	96	113	96	113
Health diagnosing occupations .....	811	826	667	675	667	675	143	151	143	150
Health assessment and treating occupations .....	2,154	2,211	309	314	305	314	1,845	1,898	1,842	1,898
Teachers, college and university .....	756	815	485	527	481	523	271	288	268	283
Teachers, except college and university .....	3,874	4,215	1,046	1,165	1,031	1,156	2,828	3,049	2,801	3,018
Lawyers and judges .....	755	736	594	585	595	585	161	150	157	151
Other professional specialty occupations .....	3,724	3,832	1,888	1,991	1,856	1,968	1,836	1,840	1,798	1,810
Technical, sales, and administrative support .....	35,929	36,088	12,656	12,727	12,032	11,997	23,274	23,361	21,457	21,503
Technicians and related support .....	3,393	3,593	1,786	1,833	1,750	1,809	1,607	1,761	1,597	1,745
Health technologists and technicians .....	1,157	1,296	181	226	182	224	976	1,070	973	1,066
Engineering and science technicians .....	1,128	1,151	918	914	889	895	209	238	204	231
Technicians, except health, engineering, and science .....	1,108	1,146	687	693	679	690	421	453	419	448
Sales occupations .....	13,932	14,292	7,114	7,114	6,731	6,668	6,818	7,179	5,727	6,010
Supervisors and proprietors .....	3,666	3,686	2,466	2,433	2,447	2,418	1,200	1,252	1,176	1,225
Sales representatives, finance and business services .....	2,351	2,444	1,428	1,409	1,413	1,396	924	1,035	897	1,007
Sales representatives, commodities, except retail .....	1,580	1,622	1,299	1,274	1,284	1,263	281	348	272	339
Sales workers, retail and personal services .....	6,266	6,464	1,902	1,984	1,569	1,579	4,364	4,479	3,339	3,379
Sales-related occupations .....	68	77	18	13	18	13	50	64	43	60
Administrative support, including clerical .....	18,605	18,203	3,756	3,781	3,551	3,519	14,849	14,422	14,133	13,749
Supervisors .....	699	749	330	298	330	298	369	451	370	446
Computer equipment operators .....	914	868	287	286	279	267	628	583	590	552
Secretaries, stenographers, and typists .....	5,066	4,791	103	88	98	80	4,963	4,703	4,778	4,531
Financial records processing .....	2,453	2,329	230	235	217	219	2,223	2,094	2,172	2,065
Mail and message distributing .....	1,015	1,012	644	621	624	594	372	391	349	376
Other administrative support, including clerical .....	8,457	8,454	2,163	2,255	2,004	2,061	6,295	6,199	5,873	5,778
Service occupations .....	15,250	15,645	6,105	6,050	5,191	5,161	9,145	9,595	8,107	8,584
Private household .....	921	966	38	30	26	22	882	936	722	800
Protective service .....	1,947	1,881	1,684	1,605	1,641	1,568	262	276	239	254
Service, except private household and protective .....	12,383	12,797	4,382	4,415	3,523	3,571	8,000	8,382	7,146	7,530
Food service .....	5,192	5,339	2,040	2,037	1,396	1,398	3,152	3,302	2,551	2,694
Health service .....	1,943	2,001	202	189	186	179	1,741	1,811	1,649	1,747
Cleaning and building service .....	2,942	3,069	1,733	1,778	1,571	1,637	1,209	1,292	1,145	1,250
Personal service .....	2,306	2,388	407	411	370	357	1,899	1,977	1,802	1,838
Precision production, craft, and repair .....	13,431	13,599	12,282	12,428	11,993	12,155	1,149	1,171	1,116	1,145
Mechanics and repairers .....	4,347	4,349	4,210	4,205	4,104	4,110	137	144	130	142
Construction trades .....	5,035	5,097	4,938	4,988	4,805	4,855	97	109	94	105
Other precision production, craft, and repair .....	4,050	4,153	3,135	3,234	3,084	3,191	915	919	892	898
Operators, fabricators, and laborers .....	17,554	17,868	12,906	13,119	11,769	11,982	4,648	4,749	4,409	4,532
Machine operators, assemblers, and inspectors .....	8,023	8,285	4,628	4,839	4,439	4,635	3,394	3,446	3,280	3,321
Manufacturing industries .....	6,551	6,793	3,721	3,943	3,578	3,789	2,830	2,850	2,740	2,759
Durable goods .....	3,638	3,691	2,455	2,508	2,366	2,433	1,183	1,183	1,160	1,154
Nondurable goods .....	2,914	3,102	1,266	1,435	1,212	1,356	1,648	1,667	1,580	1,605
Nonmanufacturing industries .....	1,471	1,492	907	896	860	845	564	596	540	562
Transportation and material moving occupations .....	4,671	4,869	4,267	4,424	4,119	4,276	404	445	392	439
Motor vehicle operators .....	3,480	3,583	3,121	3,175	2,996	3,051	359	408	347	403
Other transportation and material moving occupations .....	1,190	1,287	1,146	1,250	1,123	1,226	45	37	45	36
Handlers, equipment cleaners, helpers, and laborers .....	4,861	4,714	4,011	3,856	3,211	3,072	850	858	737	772
Construction laborers .....	785	717	772	696	680	646	13	20	14	20
Other handlers, equipment cleaners, helpers, and laborers .....	4,076	3,996	3,239	3,160	2,531	2,425	836	838	723	752
Farming, forestry, and fishing .....	2,996	3,024	2,520	2,530	2,363	2,386	476	494	449	457
Farm operators and managers .....	1,238	1,168	1,055	1,007	1,046	999	183	161	182	159
Other farming, forestry, and fishing occupations .....	1,759	1,855	1,466	1,523	1,317	1,386	293	333	267	299

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	113,679	115,978	62,265	63,111	51,414	52,867
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.1	25.7	25.4	25.8	24.7	25.5
Executive, administrative, and managerial .....	11.9	12.3	13.4	13.7	10.1	10.7
Professional specialty .....	13.2	13.3	11.9	12.1	14.7	14.8
Technical, sales, and administrative support .....	31.6	31.1	20.3	20.2	45.3	44.2
Technicians and related support .....	3.0	3.1	2.9	2.9	3.1	3.3
Sales occupations .....	12.3	12.3	11.4	11.3	13.3	13.6
Administrative support, including clerical .....	16.4	15.7	6.0	6.0	28.9	27.3
Service occupations .....	13.4	13.5	9.8	9.6	17.8	18.1
Private household .....	.8	.8	.1	( <sup>1</sup> )	1.7	1.8
Protective service .....	1.7	1.6	2.7	2.5	.5	.5
Service, except private household and protective .....	10.9	11.0	7.0	7.0	15.6	15.9
Precision production, craft, and repair .....	11.8	11.7	19.7	19.7	2.2	2.2
Operators, fabricators, and laborers .....	15.4	15.4	20.7	20.8	9.0	9.0
Machine operators, assemblers, and inspectors .....	7.1	7.1	7.4	7.7	6.6	6.5
Transportation and material moving occupations .....	4.1	4.2	6.9	7.0	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.3	4.1	6.4	6.1	1.7	1.6
Farming, forestry, and fishing .....	2.6	2.6	4.0	4.0	.9	.9
<b>White</b>						
Total, 16 years and over (thousands) .....	98,639	100,423	54,729	55,338	43,910	45,085
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.1	26.9	26.4	27.1	25.7	26.7
Executive, administrative, and managerial .....	12.5	13.1	14.1	14.6	10.5	11.3
Professional specialty .....	13.6	13.8	12.3	12.5	15.2	15.4
Technical, sales, and administrative support .....	32.0	31.4	20.7	20.4	46.2	44.9
Technicians and related support .....	3.0	3.1	2.9	2.9	3.0	3.3
Sales occupations .....	12.9	12.9	12.1	11.9	13.8	14.0
Administrative support, including clerical .....	16.2	15.4	5.7	5.5	29.3	27.6
Service occupations .....	12.2	12.3	8.7	8.7	16.5	16.8
Private household .....	.7	.7	.1	( <sup>1</sup> )	1.5	1.6
Protective service .....	1.7	1.6	2.6	2.4	.5	.5
Service, except private household and protective .....	9.8	10.1	6.1	6.3	14.5	14.7
Precision production, craft, and repair .....	12.3	12.2	20.4	20.3	2.3	2.2
Operators, fabricators, and laborers .....	14.6	14.5	19.6	19.4	8.4	8.4
Machine operators, assemblers, and inspectors .....	6.6	6.7	7.1	7.2	6.0	6.1
Transportation and material moving occupations .....	3.9	4.0	6.4	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.1	3.8	6.1	5.6	1.6	1.5
Farming, forestry, and fishing .....	2.8	2.7	4.2	4.1	1.0	1.0
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,631	11,938	5,716	5,863	5,915	6,075
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	16.0	15.1	14.2	12.7	17.7	17.4
Executive, administrative, and managerial .....	7.2	6.7	7.4	6.3	7.0	7.1
Professional specialty .....	8.8	8.4	6.8	6.4	10.8	10.3
Technical, sales, and administrative support .....	27.9	28.8	16.1	17.5	39.3	39.7
Technicians and related support .....	2.6	2.6	1.8	2.0	3.4	3.3
Sales occupations .....	7.5	8.2	5.4	5.6	9.5	10.7
Administrative support, including clerical .....	17.8	18.0	8.9	9.8	26.4	25.8
Service occupations .....	23.3	22.5	18.7	16.8	27.7	28.1
Private household .....	1.7	1.8	.1	( <sup>1</sup> )	3.2	3.5
Protective service .....	2.3	2.4	3.7	3.8	1.0	1.0
Service, except private household and protective .....	19.2	18.4	14.9	12.9	23.4	23.6
Precision production, craft, and repair .....	8.4	8.7	15.1	15.4	2.0	2.2
Operators, fabricators, and laborers .....	22.8	23.0	32.9	34.1	13.1	12.4
Machine operators, assemblers, and inspectors .....	10.2	10.1	10.6	11.7	9.9	8.6
Transportation and material moving occupations .....	6.2	6.2	11.6	11.4	1.0	1.2
Handlers, equipment cleaners, helpers, and laborers .....	6.3	6.7	10.7	10.9	2.1	2.6
Farming, forestry, and fishing .....	1.7	1.9	3.1	3.6	.3	.3

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

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

(In thousands)

Age and sex	December 1988								
	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 .....	104,231	1,173	17,627	85,431	8,612	264	1,507	1,247	116
16 to 19 years .....	6,277	175	312	5,790	69	11	131	14	16
16 to 17 years .....	2,423	120	76	2,227	27	6	61	5	12
18 to 19 years .....	3,854	54	236	3,564	42	5	71	8	4
20 to 24 years .....	12,329	131	1,058	11,139	291	3	283	46	10
25 to 34 years .....	31,184	207	4,353	26,624	1,938	62	521	211	22
35 to 44 years .....	25,790	213	5,638	19,939	2,519	68	230	266	21
45 to 54 years .....	16,452	167	3,762	12,522	1,865	78	166	232	22
55 to 64 years .....	9,795	161	2,105	7,529	1,335	32	127	279	20
55 to 59 years .....	5,914	88	1,303	4,523	789	19	69	164	9
60 to 64 years .....	3,881	73	802	3,006	546	13	59	115	11
65 years and over .....	2,405	119	398	1,888	595	9	48	201	6
Men, 16 years and over .....	55,300	138	8,102	47,060	5,555	21	1,156	1,053	26
16 to 19 years .....	3,098	34	128	2,935	34	6	93	11	11
16 to 17 years .....	1,149	21	30	1,098	15	5	40	3	9
18 to 19 years .....	1,949	13	98	1,838	20	1	53	8	2
20 to 24 years .....	6,221	13	420	5,788	187	1	224	42	6
25 to 34 years .....	16,994	22	1,982	14,990	1,227	4	394	182	5
35 to 44 years .....	13,608	33	2,572	11,002	1,617	6	181	214	3
45 to 54 years .....	8,727	19	1,783	6,925	1,199	4	125	196	1
55 to 64 years .....	5,340	8	1,013	4,319	881	-	103	238	-
55 to 59 years .....	3,205	7	618	2,579	511	-	59	141	-
60 to 64 years .....	2,135	1	394	1,739	370	-	44	97	-
65 years and over .....	1,313	9	204	1,101	411	-	35	171	1
Women, 16 years and over .....	48,932	1,035	9,526	38,371	3,057	244	351	194	90
16 to 19 years .....	3,179	141	184	2,855	35	5	38	3	5
16 to 17 years .....	1,274	100	46	1,129	13	1	20	3	3
18 to 19 years .....	1,905	41	138	1,726	23	4	18	-	3
20 to 24 years .....	6,107	118	638	5,351	104	2	60	4	4
25 to 34 years .....	14,190	185	2,371	11,634	710	58	127	29	17
35 to 44 years .....	12,182	180	3,066	8,936	902	62	48	51	18
45 to 54 years .....	7,725	148	1,979	5,597	666	74	40	36	21
55 to 64 years .....	4,456	153	1,092	3,210	454	32	25	41	20
55 to 59 years .....	2,709	81	685	1,944	278	19	10	23	9
60 to 64 years .....	1,746	72	408	1,266	176	13	15	18	10
65 years and over .....	1,092	110	194	788	184	10	13	30	4

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	December 1988												
	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 .....	2,870	61	63	29	34	102		12	45	7	46	30	2,442
Mining .....	695	99	65	40	12	84		19	201	19	125	31	-
Construction .....	7,571	1,016	150	59	61	424		28	4,439	111	476	775	29
Manufacturing .....	21,391	2,490	1,733	724	768	2,330		377	4,125	6,793	800	1,164	87
Durable goods .....	12,602	1,475	1,173	526	303	1,266		189	2,815	3,691	473	605	84
Nondurable goods .....	8,789	1,015	560	197	465	1,064		188	1,310	3,102	326	558	3
Transportation and public utilities .....	8,141	886	444	291	308	2,275		264	1,178	163	1,773	550	9
Wholesale and retail trade .....	24,261	2,010	446	152	10,278	2,387		4,465	1,507	275	1,004	1,695	43
Wholesale trade .....	4,498	473	82	51	1,785	828		42	317	118	487	304	11
Retail trade .....	19,763	1,537	364	100	8,493	1,559		4,423	1,189	156	517	1,391	32
Finance, insurance, and real estate .....	7,888	2,038	200	126	1,896	3,038	-	336	148	20	12	25	49
Services .....	37,651	4,489	11,553	1,943	905	6,068	966	7,829	1,719	867	582	404	326
Private households .....	1,184	-	4	2	-	7	966	104	16	-	2	33	51
Other service industries .....	36,467	4,489	11,549	1,942	905	6,061	-	7,725	1,703	866	580	370	275
Professional services .....	24,433	2,425	10,434	1,569	157	4,302		4,419	336	286	348	102	54
Public administration .....	5,511	1,216	795	228	31	1,494		1,348	238	31	51	40	39

<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. 1987	Dec. 1988	Total		Wage and salary workers <sup>1</sup>			
			Dec. 1987	Dec. 1988	Paid absences		Unpaid absences	
					Dec. 1987	Dec. 1988	Dec. 1987	Dec. 1988
Total, 16 years and over .....	3,794	3,678	3,649	3,546	1,512	1,533	1,648	1,584
Vacation .....	1,175	1,200	1,140	1,176	786	842	228	226
Illness .....	1,404	1,339	1,369	1,298	509	518	764	686
Bad weather .....	126	72	97	46	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	24	13	24	13	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,063	1,054	1,019	1,013	218	173	656	673
Men, 16 years and over .....	2,064	1,947	1,946	1,838	804	862	823	719
Vacation .....	698	721	667	699	461	539	125	106
Illness .....	758	688	731	660	272	253	403	345
All other reasons <sup>3</sup> .....	608	538	548	479	71	69	295	268
Women, 16 years and over .....	1,730	1,731	1,703	1,708	707	671	824	865
Vacation .....	477	478	473	476	325	303	102	119
Illness .....	646	651	638	638	235	264	361	341
All other reasons <sup>3</sup> .....	606	602	593	593	147	104	361	405

<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 1988					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	112,299	2,738	109,562	100.0	100.0	100.0
1 to 34 hours .....	26,510	881	25,628	23.6	32.2	23.4
1 to 4 hours .....	790	57	732	.7	2.1	.7
5 to 14 hours .....	4,712	204	4,508	4.2	7.5	4.1
15 to 29 hours .....	13,739	430	13,309	12.2	15.7	12.1
30 to 34 hours .....	7,269	190	7,079	6.5	6.9	6.5
35 hours and over .....	85,789	1,857	83,933	76.4	67.8	76.6
35 to 39 hours .....	7,430	102	7,328	6.6	3.7	6.7
40 hours .....	44,624	602	44,022	39.7	22.0	40.2
41 hours and over .....	33,735	1,153	32,583	30.0	42.1	29.7
41 to 48 hours .....	11,965	216	11,749	10.7	7.9	10.7
49 to 59 hours .....	12,793	398	12,396	11.4	14.5	11.3
60 hours and over .....	8,977	539	8,438	8.0	19.7	7.7
Average hours, total at work .....	39.3	41.2	39.3	-	-	-
Average hours, workers on full-time schedules .....	43.9	48.7	43.8	-	-	-

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 1988					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	26,510	6,731	19,779	25,628	6,380	19,248
Economic reasons .....	5,239	1,880	3,359	4,961	1,732	3,229
Slack work .....	2,620	1,584	1,036	2,419	1,448	971
Material shortages or repairs to plant and equipment .....	40	40	-	35	35	-
New job started during week .....	195	195	-	190	190	-
Job terminated during week .....	62	62	-	60	60	-
Could find only part-time work .....	2,323	-	2,323	2,258	-	2,258
Other reasons .....	21,271	4,851	16,420	20,668	4,649	16,019
Does not want, or unavailable for, full-time work .....	13,839	-	13,839	13,553	-	13,553
Vacation .....	1,275	1,275	-	1,260	1,260	-
Illness .....	1,679	1,527	152	1,648	1,498	150
Bad weather .....	371	371	-	324	324	-
Industrial dispute .....	6	6	-	6	6	-
Legal or religious holiday .....	67	67	-	67	67	-
Full time for this job .....	1,751	-	1,751	1,710	-	1,710
All other reasons .....	2,284	1,606	678	2,099	1,493	606
Average hours:						
Economic reasons .....	22.1	23.8	21.2	22.2	24.0	21.3
Other reasons .....	20.9	26.2	19.3	20.9	26.4	19.3
Worked 30 to 34 hours:						
Economic reasons .....	1,669	606	863	1,594	759	835
Other reasons .....	5,600	2,588	3,012	5,485	2,520	2,965

**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 1988								
	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 .....	109,562	4,961	16,019	88,582	55,999	11,749	20,834	39.3	43.8
Wage and salary workers .....	101,079	4,255	14,492	82,332	53,117	11,097	18,118	39.2	43.5
Mining .....	644	28	14	602	328	86	188	45.0	46.4
Construction .....	5,945	342	273	5,330	3,635	693	1,002	40.2	42.5
Manufacturing .....	20,345	488	716	19,141	11,886	3,230	4,025	42.4	43.7
Durable goods .....	12,015	178	325	11,512	6,989	2,057	2,466	42.9	43.8
Nondurable goods .....	8,330	310	391	7,629	4,897	1,173	1,559	41.6	43.4
Transportation and public utilities .....	7,468	236	496	6,736	4,172	933	1,631	42.3	44.5
Wholesale and retail trade .....	21,756	1,369	5,497	14,890	8,700	2,245	3,945	36.9	44.4
Finance, insurance, and real estate .....	7,009	119	643	6,247	4,274	706	1,267	40.2	42.6
Service industries .....	32,616	1,617	6,570	24,429	16,410	2,786	5,233	37.2	43.2
Private households .....	1,144	249	487	408	244	59	105	26.2	46.8
All other industries .....	31,472	1,368	6,083	24,021	16,166	2,727	5,128	37.6	43.1
Public administration .....	5,298	55	283	4,960	3,714	418	828	40.8	42.4
Self-employed workers .....	8,218	695	1,416	6,107	2,807	638	2,662	40.5	47.9
Unpaid family workers .....	264	11	111	142	75	14	53	36.0	47.8

**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 1988							
	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 .....	109,562	4,961	16,019	88,582	55,999	32,583	39.3	43.8
16 to 19 years .....	6,226	463	3,901	1,862	1,519	343	24.2	40.1
16 to 17 years .....	2,420	89	2,174	157	138	19	17.1	36.8
18 to 19 years .....	3,806	373	1,727	1,706	1,382	324	28.8	40.4
20 years and over .....	103,336	4,499	12,118	86,719	54,479	32,240	40.2	43.9
20 to 24 years .....	12,319	794	2,342	9,183	6,355	2,828	36.9	42.6
25 years and over .....	91,018	3,705	9,776	77,537	48,124	29,413	40.7	44.0
25 to 44 years .....	59,746	2,486	5,267	51,993	31,744	20,249	41.2	44.2
45 to 64 years .....	28,427	1,101	3,143	24,183	15,406	8,777	40.4	43.9
65 years and over .....	2,844	117	1,366	1,361	973	388	29.3	42.2
<b>Men, 16 years and over</b> .....	59,038	2,253	4,855	51,930	29,059	22,871	42.3	45.3
16 to 19 years .....	3,069	251	1,773	1,045	809	236	25.8	40.9
16 to 17 years .....	1,148	52	996	100	88	12	18.2	37.2
18 to 19 years .....	1,920	199	776	945	720	225	30.4	41.3
20 years and over .....	55,969	2,002	3,083	50,884	28,249	22,635	43.2	45.4
20 to 24 years .....	6,254	376	978	4,900	3,098	1,802	38.8	43.7
25 years and over .....	49,715	1,626	2,105	45,984	25,150	20,834	43.7	45.6
25 to 44 years .....	32,605	1,113	760	30,732	16,426	14,306	44.4	45.8
45 to 64 years .....	15,482	450	658	14,374	8,132	6,242	43.6	45.3
65 years and over .....	1,628	62	687	879	594	285	31.3	42.7
<b>Women, 16 years and over</b> .....	50,524	2,708	11,164	36,652	26,940	9,712	35.8	41.7
16 to 19 years .....	3,158	212	2,128	818	711	107	22.7	39.2
16 to 17 years .....	1,272	37	1,177	58	50	8	16.1	( <sup>1</sup> )
18 to 19 years .....	1,886	174	951	761	662	99	27.1	39.4
20 years and over .....	47,367	2,496	9,036	35,835	26,229	9,606	36.6	41.8
20 to 24 years .....	6,065	417	1,365	4,283	3,257	1,026	35.0	41.3
25 years and over .....	41,302	2,079	7,671	31,552	22,974	8,578	36.8	41.8
25 to 44 years .....	27,141	1,373	4,507	21,261	15,320	5,941	37.4	41.8
45 to 64 years .....	12,945	653	2,485	9,807	7,272	2,535	36.7	41.8
65 years and over .....	1,216	53	679	484	382	102	26.6	41.2
<b>RACE</b>								
White, 16 years and over .....	94,765	4,002	14,300	76,463	46,865	29,598	39.4	44.1
Men .....	51,697	1,848	4,297	45,552	24,549	21,003	42.6	45.6
Women .....	43,068	2,153	10,003	30,912	22,317	8,595	35.6	41.8
Black, 16 years and over .....	11,342	801	1,234	9,307	7,097	2,210	38.3	42.1
Men .....	5,534	342	382	4,810	3,460	1,350	40.0	43.0
Women .....	5,808	460	852	4,496	3,636	860	36.7	41.2
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,961	1,026	1,409	35,526	18,860	16,666	44.2	45.8
Widowed, divorced, or separated .....	5,787	308	295	5,184	2,999	2,185	42.7	45.3
Single (never married) .....	15,290	920	3,152	11,218	7,197	4,021	37.4	43.9
Women, 16 years and over:								
Married, spouse present .....	27,834	1,304	6,397	20,133	15,019	5,114	35.7	41.3
Widowed, divorced, or separated .....	10,025	629	1,232	8,164	5,752	2,412	38.4	42.4
Single (never married) .....	12,665	774	3,535	8,356	6,170	2,186	33.9	41.9

<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 1988								
	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> .....	109,419	4,947	16,029	88,443	55,837	11,747	20,859	39.3	43.8
Managerial and professional specialty .....	28,954	537	2,775	25,842	13,915	3,216	8,511	42.5	45.5
Executive, administrative, and managerial .....	13,899	215	673	13,011	6,614	1,700	4,697	44.5	46.1
Professional specialty .....	15,054	321	2,102	12,631	7,301	1,516	3,815	40.8	44.9
Technical, sales, and administrative support .....	35,017	1,232	6,668	27,117	18,494	3,346	5,277	37.7	42.8
Technicians and related support .....	3,481	58	440	2,983	2,121	389	473	39.3	42.4
Sales occupations .....	13,896	640	3,144	10,111	5,256	1,429	3,426	38.9	45.8
Administrative support, including clerical .....	17,641	534	3,084	14,024	11,117	1,529	1,378	36.4	40.7
Service occupations .....	15,108	1,490	4,401	9,218	6,535	1,034	1,650	33.7	43.0
Private household .....	937	195	420	322	199	56	67	25.4	45.0
Protective service .....	1,796	32	178	1,586	925	230	430	42.4	45.9
Service, except private household and protective .....	12,376	1,263	3,803	7,310	5,410	748	1,152	33.1	42.3
Precision production, craft, and repair .....	13,111	636	461	12,015	7,563	1,897	2,554	41.7	43.6
Operators, fabricators, and laborers .....	17,228	1,053	1,725	14,451	9,330	2,254	2,867	40.0	43.6
Machine operators, assemblers, and inspectors .....	8,018	402	433	7,183	4,846	1,207	1,130	40.7	42.8
Transportation and material moving occupations .....	4,667	257	402	4,008	2,111	568	1,328	42.9	46.4
Handlers, equipment cleaners, helpers, and laborers .....	4,544	394	889	3,260	2,373	478	409	35.8	41.9
Men, 16 years and over <sup>1</sup> .....	58,762	2,224	4,819	51,718	28,843	7,428	15,446	42.3	45.4
Managerial and professional specialty .....	15,844	246	806	14,792	6,770	1,855	6,167	45.6	47.5
Executive, administrative, and managerial .....	8,427	137	284	8,006	3,452	1,051	3,503	46.4	47.8
Professional specialty .....	7,417	109	522	6,786	3,318	804	2,664	44.7	47.1
Technical, sales, and administrative support .....	12,415	278	1,378	10,759	5,703	1,575	3,481	42.3	45.8
Technicians and related support .....	1,790	29	131	1,630	1,087	235	308	41.3	43.5
Sales occupations .....	6,954	159	762	6,032	2,546	862	2,624	44.3	47.9
Administrative support, including clerical .....	3,671	90	485	3,097	2,070	478	549	39.1	42.7
Service occupations .....	5,859	415	1,186	4,259	2,828	519	912	37.1	44.1
Private household .....	30	8	10	12	10	-	3	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,526	28	95	1,403	794	208	400	44.1	46.3
Service, except private household and protective .....	4,304	379	1,081	2,844	2,024	311	510	34.8	43.1
Precision production, craft, and repair .....	11,990	580	338	11,072	6,926	1,748	2,398	41.9	43.6
Operators, fabricators, and laborers .....	12,654	705	1,113	10,836	6,616	1,731	2,488	41.0	44.4
Machine operators, assemblers, and inspectors .....	4,695	158	152	4,384	2,716	798	870	42.5	43.9
Transportation and material moving occupations .....	4,249	218	249	3,782	1,973	538	1,271	43.8	46.6
Handlers, equipment cleaners, helpers, and laborers .....	3,709	329	712	2,669	1,927	395	347	35.9	42.0
Women, 16 years and over <sup>1</sup> .....	50,658	2,723	11,210	36,725	26,994	4,318	5,413	35.8	41.7
Managerial and professional specialty .....	13,110	291	1,970	10,850	7,144	1,361	2,345	38.9	42.8
Executive, administrative, and managerial .....	5,473	79	389	5,005	3,162	649	1,194	41.5	43.4
Professional specialty .....	7,637	212	1,581	5,845	3,982	712	1,151	37.0	42.4
Technical, sales, and administrative support .....	22,602	953	5,291	16,358	12,791	1,771	1,796	35.2	40.9
Technicians and related support .....	1,691	29	310	1,352	1,034	154	164	37.1	41.0
Sales occupations .....	6,942	481	2,382	4,079	2,710	567	802	33.5	42.7
Administrative support, including clerical .....	13,970	444	2,599	10,926	9,047	1,051	829	35.7	40.2
Service occupations .....	9,249	1,075	3,215	4,959	3,707	515	737	31.5	42.0
Private household .....	907	187	410	310	190	56	64	25.5	45.3
Protective service .....	270	4	83	183	131	22	30	33.3	42.4
Service, except private household and protective .....	8,072	884	2,722	4,466	3,386	437	643	32.2	41.8
Precision production, craft, and repair .....	1,121	56	123	943	637	149	156	39.4	43.0
Operators, fabricators, and laborers .....	4,575	348	612	3,615	2,714	522	379	37.2	41.3
Machine operators, assemblers, and inspectors .....	3,323	244	281	2,799	2,130	409	260	38.2	41.1
Transportation and material moving occupations .....	417	39	153	225	137	31	57	33.8	43.4
Handlers, equipment cleaners, helpers, and laborers .....	834	66	178	591	446	83	62	35.3	41.4

<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	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	185,370	185,571	185,705	185,847	185,964	186,088	186,247	186,402	186,522	186,666	186,801	186,949	187,098
Labor force <sup>2</sup> .....	122,451	122,784	122,901	122,672	123,060	122,917	123,209	123,331	123,692	123,688	123,778	124,215	124,259
Percent of population <sup>2</sup> .....	66.1	66.2	66.2	66.0	66.2	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.4
Total employed <sup>3</sup> .....	115,490	115,804	116,009	115,865	116,392	116,117	116,686	116,707	116,895	117,074	117,260	117,652	117,705
Employment-population ratio <sup>3</sup> .....	62.3	62.4	62.5	62.3	62.6	62.4	62.7	62.6	62.7	62.7	62.8	62.9	62.9
Resident Armed Forces .....	1,750	1,749	1,736	1,736	1,732	1,714	1,685	1,673	1,692	1,704	1,687	1,705	1,696
Civilian employed .....	113,740	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009
Agriculture .....	3,212	3,256	3,200	3,181	3,187	3,110	3,121	3,060	3,142	3,176	3,238	3,238	3,193
Nonagricultural industries .....	110,528	110,799	111,073	110,948	111,473	111,293	111,880	111,974	112,061	112,194	112,335	112,709	112,816
Unemployed .....	6,961	6,980	6,892	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554
Unemployment rate <sup>4</sup> .....	5.7	5.7	5.6	5.5	5.4	5.5	5.3	5.4	5.5	5.3	5.3	5.3	5.3
Not in labor force .....	62,919	62,787	62,804	63,175	62,904	63,171	63,038	63,071	62,830	62,978	63,023	62,734	62,839
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	88,924	89,033	89,099	89,168	89,225	89,287	89,367	89,445	89,504	89,577	89,637	89,716	89,792
Labor force <sup>2</sup> .....	68,058	68,219	68,289	68,194	68,462	68,409	68,436	68,461	68,685	68,604	68,569	68,686	68,638
Percent of population <sup>2</sup> .....	76.5	76.6	76.6	76.5	76.7	76.6	76.6	76.5	76.7	76.6	76.5	76.6	76.4
Total employed <sup>3</sup> .....	64,281	64,420	64,587	64,417	64,866	64,672	64,894	64,941	64,931	65,015	64,976	65,074	65,055
Employment-population ratio <sup>3</sup> .....	72.3	72.4	72.5	72.2	72.7	72.4	72.6	72.6	72.5	72.6	72.5	72.5	72.5
Resident Armed Forces .....	1,589	1,588	1,577	1,573	1,569	1,553	1,523	1,512	1,529	1,540	1,526	1,542	1,534
Civilian employed .....	62,692	62,832	63,010	62,844	63,297	63,119	63,371	63,429	63,402	63,475	63,450	63,532	63,521
Unemployed .....	3,777	3,799	3,702	3,777	3,596	3,737	3,542	3,520	3,754	3,589	3,593	3,612	3,583
Unemployment rate <sup>4</sup> .....	5.5	5.6	5.4	5.5	5.3	5.5	5.2	5.1	5.5	5.2	5.2	5.3	5.2
Not in labor force .....	20,866	20,814	20,810	20,974	20,763	20,878	20,931	20,984	20,819	20,973	21,068	21,030	21,154
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	96,446	96,538	96,606	96,679	96,739	96,801	96,880	96,957	97,018	97,089	97,164	97,234	97,306
Labor force <sup>2</sup> .....	54,393	54,565	54,612	54,478	54,598	54,508	54,773	54,870	55,007	55,084	55,209	55,529	55,621
Percent of population <sup>2</sup> .....	56.4	56.5	56.5	56.3	56.4	56.3	56.5	56.6	56.7	56.7	56.8	57.1	57.2
Total employed <sup>3</sup> .....	51,209	51,384	51,422	51,448	51,526	51,445	51,792	51,766	51,964	52,059	52,284	52,578	52,650
Employment-population ratio <sup>3</sup> .....	53.1	53.2	53.2	53.2	53.3	53.1	53.5	53.4	53.6	53.6	53.8	54.1	54.1
Resident Armed Forces .....	161	161	159	163	163	161	162	161	163	164	161	163	162
Civilian employed .....	51,048	51,223	51,263	51,285	51,363	51,284	51,630	51,605	51,801	51,895	52,123	52,415	52,488
Unemployed .....	3,184	3,181	3,190	3,030	3,072	3,063	2,981	3,104	3,043	3,025	2,925	2,951	2,971
Unemployment rate <sup>4</sup> .....	5.9	5.8	5.8	5.6	5.6	5.6	5.4	5.7	5.5	5.5	5.3	5.3	5.3
Not in labor force .....	42,053	41,973	41,994	42,201	42,141	42,293	42,107	42,087	42,011	42,005	41,955	41,705	41,685

<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 1988. 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	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	183,620	183,822	183,969	184,111	184,232	184,374	184,562	184,729	184,830	184,962	185,114	185,244	185,402
Civilian labor force .....	120,701	121,035	121,165	120,936	121,328	121,203	121,524	121,658	122,000	121,984	122,091	122,510	122,563
Percent of population .....	65.7	65.8	65.9	65.7	65.9	65.7	65.8	65.9	66.0	66.0	66.0	66.1	66.1
Employed .....	113,740	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009
Employment-population ratio <sup>2</sup> .....	61.9	62.0	62.1	62.0	62.2	62.0	62.3	62.3	62.3	62.4	62.4	62.6	62.6
Unemployed .....	6,961	6,980	6,892	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554
Unemployment rate .....	5.8	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	80,002	80,120	80,203	80,260	80,326	80,402	80,526	80,608	80,669	80,751	80,851	80,924	81,001
Civilian labor force .....	62,281	62,421	62,614	62,532	62,774	62,721	62,669	62,729	62,916	62,884	62,915	62,995	63,002
Percent of population .....	77.8	77.9	78.1	77.9	78.1	78.0	77.8	77.8	78.0	77.9	77.8	77.8	77.8
Employed .....	59,220	59,315	59,561	59,468	59,833	59,656	59,780	59,897	59,839	59,979	60,004	59,999	60,049
Employment-population ratio <sup>2</sup> .....	74.0	74.0	74.3	74.1	74.5	74.2	74.2	74.3	74.2	74.3	74.2	74.1	74.1
Agriculture .....	2,290	2,302	2,279	2,258	2,259	2,238	2,231	2,252	2,273	2,249	2,315	2,313	2,292
Nonagricultural industries .....	56,930	57,013	57,282	57,210	57,574	57,418	57,549	57,645	57,566	57,730	57,689	57,686	57,757
Unemployed .....	3,061	3,106	3,053	3,064	2,941	3,065	2,889	2,832	3,077	2,905	2,911	2,996	2,953
Unemployment rate .....	4.9	5.0	4.9	4.9	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7
Not in labor force .....	17,721	17,699	17,589	17,728	17,552	17,681	17,857	17,879	17,753	17,867	17,936	17,929	17,999
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	89,010	89,110	89,178	89,261	89,307	89,382	89,502	89,588	89,670	89,735	89,807	89,887	89,954
Civilian labor force .....	50,327	50,462	50,530	50,510	50,591	50,532	50,690	50,807	50,959	50,991	51,201	51,558	51,587
Percent of population .....	56.5	56.6	56.7	56.6	56.6	56.5	56.6	56.7	56.8	56.8	57.0	57.4	57.3
Employed .....	47,722	47,894	47,934	48,060	48,120	48,040	48,205	48,242	48,492	48,535	48,788	49,113	49,165
Employment-population ratio <sup>2</sup> .....	53.6	53.7	53.8	53.8	53.9	53.7	53.9	53.8	54.1	54.1	54.3	54.6	54.7
Agriculture .....	640	639	638	641	653	604	626	549	609	638	640	640	646
Nonagricultural industries .....	47,082	47,255	47,296	47,419	47,467	47,436	47,579	47,693	47,883	47,897	48,148	48,473	48,519
Unemployed .....	2,605	2,568	2,596	2,450	2,471	2,492	2,485	2,565	2,467	2,456	2,413	2,445	2,422
Unemployment rate .....	5.2	5.1	5.1	4.9	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7
Not in labor force .....	38,683	38,648	38,648	38,751	38,716	38,850	38,812	38,781	38,711	38,744	38,606	38,329	38,367
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,609	14,592	14,588	14,591	14,598	14,590	14,534	14,533	14,491	14,477	14,456	14,433	14,447
Civilian labor force .....	8,093	8,152	8,021	7,894	7,963	7,950	8,165	8,122	8,125	8,109	7,975	7,957	7,974
Percent of population .....	55.4	55.9	55.0	54.1	54.5	54.5	56.2	55.9	56.1	56.0	55.2	55.1	55.2
Employed .....	6,798	6,846	6,778	6,601	6,707	6,707	7,016	6,895	6,872	6,856	6,781	6,835	6,795
Employment-population ratio <sup>2</sup> .....	46.5	46.9	46.5	45.2	45.9	46.0	48.3	47.4	47.4	47.4	46.9	47.4	47.0
Agriculture .....	282	315	283	282	275	268	264	259	260	289	283	285	255
Nonagricultural industries .....	6,516	6,531	6,495	6,319	6,432	6,439	6,752	6,636	6,612	6,567	6,498	6,550	6,540
Unemployed .....	1,295	1,306	1,243	1,293	1,256	1,243	1,149	1,227	1,253	1,253	1,194	1,122	1,179
Unemployment rate .....	16.0	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8
Not in labor force .....	6,516	6,440	6,567	6,697	6,635	6,640	6,369	6,411	6,366	6,368	6,481	6,476	6,473

<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 1988. See the article in this issue for additional information.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	157,552	157,676	157,773	157,868	157,943	158,034	158,166	158,279	158,340	158,422	158,524	158,603	158,705
Civilian labor force .....	103,907	104,188	104,404	104,172	104,517	104,433	104,716	104,651	105,013	105,036	105,051	105,395	105,411
Percent of population .....	66.0	66.1	66.2	66.0	66.2	66.1	66.2	66.1	66.3	66.3	66.3	66.5	66.4
Employed .....	98,787	99,011	99,350	99,252	99,663	99,508	99,902	99,761	99,907	100,058	100,199	100,543	100,567
Employment-population ratio <sup>2</sup> .....	62.7	62.8	63.0	62.9	63.1	63.0	63.2	63.0	63.1	63.2	63.2	63.4	63.4
Unemployed .....	5,120	5,177	5,054	4,920	4,854	4,925	4,814	4,890	5,106	4,978	4,852	4,852	4,844
Unemployment rate .....	4.9	5.0	4.8	4.7	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6
<b>Men, 20 years and over</b>													
Civilian labor force .....	54,369	54,470	54,627	54,541	54,653	54,722	54,658	54,712	54,864	54,839	54,861	54,922	54,898
Percent of population .....	78.2	78.3	78.4	78.3	78.4	78.4	78.2	78.2	78.4	78.3	78.3	78.3	78.2
Employed .....	52,046	52,080	52,348	52,266	52,478	52,443	52,475	52,557	52,487	52,579	52,612	52,624	52,636
Employment-population ratio <sup>2</sup> .....	74.9	74.8	75.2	75.0	75.3	75.2	75.1	75.2	75.0	75.1	75.1	75.0	75.0
Unemployed .....	2,323	2,390	2,279	2,275	2,175	2,279	2,183	2,155	2,377	2,260	2,249	2,298	2,262
Unemployment rate .....	4.3	4.4	4.2	4.2	4.0	4.2	4.0	3.9	4.3	4.1	4.1	4.2	4.1
<b>Women, 20 years and over</b>													
Civilian labor force .....	42,572	42,677	42,848	42,767	42,955	42,868	42,955	42,958	43,149	43,191	43,298	43,625	43,644
Percent of population .....	55.9	56.0	56.2	56.1	56.3	56.1	56.2	56.2	56.4	56.4	56.5	56.9	56.9
Employed .....	40,713	40,869	40,942	41,089	41,233	41,124	41,201	41,124	41,378	41,413	41,583	41,889	41,930
Employment-population ratio <sup>2</sup> .....	53.5	53.6	53.7	53.9	54.0	53.8	53.9	53.8	54.1	54.1	54.2	54.6	54.6
Unemployed .....	1,859	1,808	1,906	1,678	1,722	1,744	1,754	1,834	1,771	1,778	1,715	1,736	1,714
Unemployment rate .....	4.4	4.2	4.4	3.9	4.0	4.1	4.1	4.3	4.1	4.1	4.0	4.0	3.9
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,966	7,041	6,929	6,864	6,909	6,843	7,103	6,981	7,000	7,006	6,892	6,848	6,869
Percent of population .....	58.5	59.2	58.3	57.7	58.1	57.6	59.8	58.9	59.2	59.4	58.5	58.3	58.6
Employed .....	6,028	6,062	6,060	5,897	5,952	5,941	6,226	6,080	6,042	6,066	6,004	6,030	6,001
Employment-population ratio <sup>2</sup> .....	50.6	51.0	51.0	49.6	50.1	50.0	52.5	51.3	51.1	51.4	51.0	51.3	51.2
Unemployed .....	938	979	869	967	957	902	877	901	958	940	888	818	868
Unemployment rate .....	13.5	13.9	12.5	14.1	13.9	13.2	12.3	12.9	13.7	13.4	12.9	11.9	12.6
Men .....	14.8	14.5	12.5	15.5	14.4	14.0	13.2	14.3	13.9	14.5	14.4	12.6	13.4
Women .....	12.0	13.3	12.6	12.6	13.3	12.3	11.4	11.4	13.5	12.3	11.3	11.3	11.8
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	20,508	20,539	20,569	20,596	20,622	20,650	20,683	20,715	20,736	20,762	20,786	20,811	20,842
Civilian labor force .....	13,181	13,174	13,138	13,100	13,101	13,102	13,066	13,283	13,236	13,201	13,290	13,330	13,405
Percent of population .....	64.3	64.1	63.9	63.6	63.5	63.4	63.2	64.1	63.8	63.6	63.9	64.1	64.3
Employed .....	11,560	11,570	11,504	11,461	11,534	11,514	11,543	11,761	11,733	11,758	11,807	11,831	11,856
Employment-population ratio <sup>2</sup> .....	56.4	56.3	55.9	55.6	55.9	55.8	55.8	56.8	56.6	56.6	56.8	56.8	56.9
Unemployed .....	1,621	1,604	1,634	1,639	1,567	1,588	1,523	1,522	1,503	1,443	1,483	1,499	1,549
Unemployment rate .....	12.3	12.2	12.4	12.5	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,057	6,093	6,140	6,119	6,151	6,107	6,084	6,080	6,131	6,117	6,157	6,146	6,179
Percent of population .....	74.5	74.8	75.2	74.9	75.2	74.5	74.1	73.9	74.5	74.2	74.6	74.3	74.6
Employed .....	5,430	5,470	5,469	5,444	5,510	5,469	5,480	5,495	5,539	5,563	5,566	5,545	5,561
Employment-population ratio <sup>2</sup> .....	66.8	67.1	67.0	66.6	67.3	66.7	66.7	66.8	67.3	67.5	67.4	67.1	67.1
Unemployed .....	627	623	671	675	641	638	604	585	592	554	591	601	618
Unemployment rate .....	10.4	10.2	10.9	11.0	10.4	10.4	9.9	9.6	9.7	9.1	9.6	9.8	10.0
<b>Women, 20 years and over</b>													
Civilian labor force .....	6,193	6,206	6,135	6,141	6,112	6,099	6,097	6,286	6,188	6,174	6,234	6,280	6,316
Percent of population .....	60.7	60.7	59.9	59.9	59.6	59.4	59.3	61.0	60.0	59.8	60.2	60.6	60.9
Employed .....	5,515	5,524	5,490	5,478	5,444	5,453	5,449	5,640	5,571	5,575	5,620	5,663	5,654
Employment-population ratio <sup>2</sup> .....	54.0	54.1	53.6	53.5	53.1	53.1	53.0	54.7	54.0	54.0	54.3	54.6	54.5
Unemployed .....	678	682	645	663	668	646	648	646	617	599	614	617	662
Unemployment rate .....	10.9	11.0	10.5	10.8	10.9	10.6	10.6	10.3	10.0	9.7	9.8	9.8	10.5

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	1987	1988											
	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 .....	931	875	863	840	838	896	885	917	917	910	899	904	910
Percent of population .....	42.9	40.3	39.7	38.6	38.5	41.1	40.6	42.0	42.0	41.7	41.2	41.5	41.7
Employed .....	615	576	545	539	580	592	614	626	623	620	621	623	641
Employment-population ratio <sup>2</sup> .....	28.4	26.5	25.1	24.7	26.6	27.2	28.1	28.7	28.5	28.4	28.5	28.6	29.4
Unemployed .....	316	299	318	301	258	304	271	291	294	290	278	281	269
Unemployment rate .....	33.9	34.2	36.8	35.8	30.8	33.9	30.6	31.7	32.1	31.9	30.9	31.1	29.6
Men .....	34.3	34.6	39.9	37.8	27.9	33.2	31.5	31.2	32.1	31.9	32.8	32.1	29.8
Women .....	33.6	33.7	33.8	33.9	33.9	34.8	29.6	32.4	32.0	31.9	28.6	29.9	29.3
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,082	13,115	13,153	13,192	13,230	13,268	13,306	13,344	13,381	13,419	13,458	13,495	13,533
Civilian labor force .....	8,770	8,862	8,987	8,818	8,823	8,910	9,009	8,997	8,963	9,061	9,075	9,148	9,133
Percent of population .....	67.0	67.6	68.3	66.8	66.7	67.2	67.7	67.4	67.0	67.5	67.4	67.8	67.5
Employed .....	8,045	8,199	8,241	8,088	8,030	8,128	8,222	8,265	8,214	8,378	8,368	8,419	8,441
Employment-population ratio <sup>2</sup> .....	61.5	62.5	62.7	61.3	60.7	61.3	61.8	61.9	61.4	62.4	62.2	62.4	62.4
Unemployed .....	725	663	746	730	793	782	787	732	749	683	707	729	692
Unemployment rate .....	8.3	7.5	8.3	8.3	9.0	8.8	8.7	8.1	8.4	7.5	7.8	8.0	7.6

<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 1988. See the article in this issue for additional information.

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

(In thousands)

Category	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>CHARACTERISTIC</b>													
Total .....	113,740	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009
Married men, spouse present .....	40,616	40,438	40,488	40,486	40,494	40,317	40,493	40,518	40,511	40,513	40,504	40,407	40,483
Married women, spouse present .....	28,299	28,435	28,620	28,713	28,772	28,632	28,678	28,669	28,809	28,836	28,890	28,995	29,053
Women who maintain families .....	6,181	6,153	6,151	6,158	6,091	6,000	6,130	6,170	6,280	6,253	6,344	6,375	6,399
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,589	1,629	1,640	1,610	1,632	1,574	1,583	1,572	1,607	1,612	1,661	1,672	1,698
Self-employed workers .....	1,461	1,427	1,410	1,416	1,390	1,365	1,375	1,362	1,411	1,421	1,405	1,450	1,349
Unpaid family workers .....	155	143	123	146	152	155	161	149	158	137	177	125	149
Nonagricultural industries:													
Wage and salary workers .....	101,922	102,413	102,498	102,339	102,562	102,145	102,953	103,189	103,207	103,501	103,733	103,770	103,904
Government .....	17,021	17,080	16,961	16,952	17,012	16,946	17,049	17,031	17,111	17,145	17,240	17,387	17,423
Private industries .....	84,901	85,333	85,537	85,387	85,550	85,199	85,904	86,158	86,096	86,356	86,493	86,383	86,481
Private households .....	1,172	1,146	1,167	1,167	1,114	1,152	1,146	1,132	1,128	1,119	1,152	1,209	1,210
Other industries .....	83,729	84,187	84,370	84,220	84,436	84,047	84,758	85,026	84,968	85,237	85,341	85,174	85,271
Self-employed workers .....	8,306	8,246	8,338	8,395	8,567	8,816	8,536	8,531	8,508	8,570	8,479	8,619	8,602
Unpaid family workers .....	250	241	232	250	272	301	297	251	241	230	232	300	266
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,246	5,355	5,369	5,331	5,212	4,878	5,302	5,341	5,192	5,097	4,963	5,061	5,321
Slack work .....	2,265	2,351	2,408	2,448	2,264	2,267	2,346	2,471	2,315	2,266	2,220	2,279	2,549
Could only find part-time work .....	2,617	2,630	2,591	2,548	2,519	2,353	2,586	2,538	2,473	2,389	2,399	2,375	2,410
Voluntary part time .....	14,690	14,580	14,619	14,654	14,949	14,813	14,612	15,026	14,999	15,270	15,161	15,446	15,363
Nonagricultural industries:													
Part time for economic reasons .....	4,979	5,113	5,101	5,087	4,953	4,676	5,073	5,102	4,972	4,862	4,727	4,819	5,033
Slack work .....	2,099	2,212	2,258	2,265	2,131	2,136	2,183	2,334	2,171	2,102	2,095	2,116	2,377
Could only find part-time work .....	2,518	2,554	2,477	2,482	2,426	2,276	2,504	2,493	2,408	2,317	2,319	2,288	2,307
Voluntary part time .....	14,205	14,115	14,172	14,203	14,441	14,376	14,180	14,606	14,564	14,819	14,679	14,986	14,928

<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 1988. See the article in this issue for additional information.



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

(In thousands)

Sex and age	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over .....	113,740	114,055	114,273	114,129	114,860	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009
16 to 24 years .....	20,126	20,287	20,216	19,948	20,029	19,864	20,338	20,137	20,123	20,050	19,930	19,877	19,852
16 to 19 years .....	6,798	6,846	6,778	6,601	6,707	6,707	7,016	6,895	6,872	6,856	6,781	6,835	6,795
16 to 17 years .....	2,831	2,768	2,739	2,685	2,703	2,674	2,797	2,700	2,671	2,669	2,689	2,770	2,688
18 to 19 years .....	3,993	4,054	4,047	3,944	4,004	4,034	4,203	4,182	4,148	4,195	4,090	4,045	4,150
20 to 24 years .....	13,328	13,441	13,438	13,347	13,322	13,157	13,322	13,242	13,251	13,194	13,149	13,042	13,057
25 years and over .....	93,595	93,759	94,055	94,198	94,591	94,450	94,683	94,979	95,145	95,332	95,619	96,062	96,151
25 to 54 years .....	78,939	79,188	79,366	79,563	79,698	79,953	80,111	80,456	80,608	80,697	80,950	81,242	81,399
55 years and over .....	14,678	14,579	14,643	14,580	14,673	14,499	14,556	14,514	14,583	14,664	14,690	14,790	14,771
Men, 16 years and over .....	62,692	62,832	63,010	62,844	63,297	63,119	63,371	63,429	63,402	63,475	63,450	63,532	63,521
16 to 24 years .....	10,394	10,466	10,442	10,364	10,438	10,385	10,550	10,441	10,475	10,401	10,303	10,379	10,288
16 to 19 years .....	3,472	3,517	3,449	3,378	3,484	3,463	3,591	3,532	3,563	3,496	3,446	3,533	3,472
16 to 17 years .....	1,469	1,435	1,400	1,391	1,403	1,383	1,415	1,392	1,395	1,397	1,404	1,433	1,385
18 to 19 years .....	2,030	2,054	2,052	2,001	2,059	2,080	2,171	2,133	2,126	2,106	2,040	2,105	2,135
20 to 24 years .....	8,922	6,949	6,993	6,988	6,974	6,922	6,959	6,909	6,912	6,905	6,857	6,848	6,816
25 years and over .....	52,289	52,346	52,569	52,504	52,831	52,709	52,818	53,016	52,983	53,072	53,136	53,152	53,227
25 to 54 years .....	43,714	43,851	43,983	43,999	44,278	44,202	44,287	44,509	44,471	44,577	44,869	44,712	44,779
55 years and over .....	8,602	8,495	8,563	8,492	8,532	8,490	8,529	8,524	8,514	8,502	8,482	8,436	8,470
Women, 16 years and over .....	51,048	51,223	51,263	51,285	51,363	51,284	51,630	51,605	51,801	51,895	52,123	52,415	52,488
16 to 24 years .....	9,732	9,821	9,774	9,584	9,591	9,479	9,788	9,696	9,648	9,649	9,627	9,498	9,564
16 to 19 years .....	3,326	3,329	3,329	3,225	3,243	3,244	3,425	3,363	3,309	3,380	3,335	3,302	3,323
16 to 17 years .....	1,362	1,331	1,339	1,294	1,300	1,291	1,382	1,308	1,276	1,272	1,265	1,337	1,301
18 to 19 years .....	1,963	2,000	1,995	1,943	1,945	1,954	2,032	2,049	2,022	2,089	2,050	1,940	2,015
20 to 24 years .....	6,406	6,492	6,445	6,359	6,348	6,235	6,363	6,333	6,339	6,289	6,292	6,196	6,241
25 years and over .....	41,306	41,413	41,486	41,894	41,760	41,741	41,865	41,983	42,162	42,260	42,483	42,910	42,924
25 to 54 years .....	35,225	35,337	35,363	35,584	35,620	35,751	35,824	35,947	36,137	36,120	36,281	36,530	36,620
55 years and over .....	6,076	6,084	6,080	6,088	6,141	6,009	6,027	5,990	6,069	6,162	6,208	6,354	6,301

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

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

(In thousands)

Sex and age	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over .....	6,961	6,980	6,892	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554
16 to 24 years .....	2,543	2,656	2,531	2,812	2,518	2,513	2,394	2,465	2,476	2,457	2,429	2,363	2,421
16 to 19 years .....	1,295	1,306	1,243	1,293	1,256	1,243	1,149	1,227	1,253	1,253	1,194	1,122	1,179
16 to 17 years .....	604	627	588	578	580	536	527	571	605	650	559	520	535
18 to 19 years .....	683	689	665	714	658	700	642	628	660	615	629	599	637
20 to 24 years .....	1,248	1,350	1,288	1,319	1,262	1,270	1,245	1,238	1,223	1,204	1,235	1,241	1,242
25 years and over .....	4,400	4,370	4,377	4,171	4,144	4,253	4,146	4,143	4,334	4,179	4,061	4,193	4,125
25 to 54 years .....	3,940	3,861	3,887	3,742	3,696	3,765	3,675	3,702	3,828	3,733	3,651	3,739	3,687
55 years and over .....	470	516	485	443	460	498	450	457	475	436	419	433	457
Men, 16 years and over .....	3,777	3,799	3,702	3,777	3,596	3,737	3,542	3,520	3,754	3,589	3,593	3,612	3,583
16 to 24 years .....	1,380	1,448	1,340	1,403	1,321	1,352	1,302	1,331	1,351	1,329	1,376	1,274	1,280
16 to 19 years .....	716	693	649	713	655	672	653	688	677	684	682	616	630
16 to 17 years .....	339	341	300	318	300	291	301	307	301	367	318	300	290
18 to 19 years .....	370	366	360	399	355	377	363	359	362	329	360	314	333
20 to 24 years .....	664	755	691	690	666	680	649	643	674	645	694	658	650
25 years and over .....	2,387	2,378	2,369	2,367	2,270	2,348	2,259	2,191	2,417	2,270	2,195	2,331	2,296
25 to 54 years .....	2,093	2,056	2,071	2,071	1,994	2,051	1,961	1,936	2,088	2,014	1,946	2,050	1,999
55 years and over .....	277	335	297	296	281	304	278	278	298	255	266	275	286
Women, 16 years and over .....	3,184	3,181	3,190	3,030	3,072	3,063	2,981	3,104	3,043	3,025	2,925	2,951	2,971
16 to 24 years .....	1,163	1,208	1,191	1,209	1,197	1,161	1,092	1,134	1,125	1,128	1,053	1,089	1,141
16 to 19 years .....	579	613	594	580	601	571	496	539	576	569	512	506	549
16 to 17 years .....	265	286	288	260	280	245	226	264	304	283	241	220	245
18 to 19 years .....	313	323	305	315	303	323	279	269	298	286	269	285	304
20 to 24 years .....	584	595	597	629	596	590	596	595	549	559	541	583	592
25 years and over .....	2,013	1,992	2,008	1,804	1,874	1,905	1,887	1,952	1,917	1,909	1,866	1,862	1,829
25 to 54 years .....	1,847	1,805	1,816	1,671	1,702	1,714	1,714	1,766	1,740	1,719	1,705	1,689	1,688
55 years and over .....	193	181	188	147	179	194	172	179	177	181	153	158	171

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over .....	5.8	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3
16 to 24 years .....	11.2	11.6	11.1	11.6	11.2	11.2	10.5	10.9	11.0	10.9	10.9	10.6	10.9
16 to 19 years .....	16.0	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8
16 to 17 years .....	17.6	18.5	17.7	17.7	17.7	16.7	15.9	17.5	18.5	19.6	17.2	15.8	16.6
18 to 19 years .....	14.6	14.5	14.1	15.3	14.1	14.8	13.3	13.1	13.7	12.8	13.3	12.9	13.3
20 to 24 years .....	8.6	9.1	8.7	9.0	8.7	8.8	8.5	8.5	8.4	8.4	8.6	8.7	8.7
25 years and over .....	4.5	4.5	4.4	4.2	4.2	4.3	4.2	4.2	4.4	4.2	4.1	4.2	4.1
25 to 54 years .....	4.8	4.6	4.7	4.5	4.4	4.5	4.4	4.4	4.5	4.4	4.3	4.4	4.3
55 years and over .....	3.1	3.4	3.2	2.9	3.0	3.3	3.0	3.1	3.2	2.9	2.8	2.8	3.0
Men, 16 years and over .....	5.7	5.7	5.5	5.7	5.4	5.6	5.3	5.3	5.6	5.4	5.4	5.4	5.3
16 to 24 years .....	11.7	12.2	11.4	11.9	11.2	11.5	11.0	11.3	11.4	11.3	11.8	10.9	11.1
16 to 19 years .....	17.1	16.5	15.8	17.4	15.9	16.3	15.4	16.3	16.0	16.4	16.5	14.8	15.4
16 to 17 years .....	18.8	19.2	17.6	18.6	17.6	17.4	17.5	18.1	17.7	20.8	18.5	17.3	17.3
18 to 19 years .....	15.4	15.1	14.9	16.6	14.7	15.3	14.3	14.4	14.5	13.5	15.0	13.0	13.5
20 to 24 years .....	8.8	9.8	9.0	9.0	8.7	8.9	8.5	8.5	8.9	8.5	9.2	8.8	8.7
25 years and over .....	4.4	4.3	4.3	4.3	4.1	4.3	4.1	4.0	4.4	4.1	4.0	4.2	4.1
25 to 54 years .....	4.6	4.5	4.5	4.5	4.3	4.4	4.2	4.2	4.5	4.3	4.2	4.4	4.3
55 years and over .....	3.1	3.8	3.4	3.4	3.2	3.5	3.2	3.2	3.4	2.9	3.0	3.2	3.3
Women, 16 years and over .....	5.9	5.8	5.9	5.6	5.6	5.6	5.5	5.7	5.5	5.5	5.3	5.3	5.4
16 to 24 years .....	10.7	11.0	10.9	11.2	11.1	10.9	10.0	10.5	10.4	10.5	9.9	10.3	10.7
16 to 19 years .....	14.8	15.6	15.1	15.2	15.6	15.0	12.6	13.8	14.8	14.5	13.3	13.3	14.2
16 to 17 years .....	16.3	17.7	17.7	16.7	17.7	16.0	14.1	16.8	19.2	18.2	15.8	14.1	15.8
18 to 19 years .....	13.8	13.9	13.3	14.0	13.5	14.2	12.1	11.6	12.8	12.0	11.6	12.8	13.1
20 to 24 years .....	8.4	8.4	8.5	9.0	8.6	8.6	8.6	8.6	8.0	8.2	7.9	8.6	8.7
25 years and over .....	4.6	4.6	4.6	4.1	4.3	4.4	4.3	4.4	4.3	4.3	4.2	4.2	4.1
25 to 54 years .....	5.0	4.9	4.9	4.5	4.6	4.6	4.6	4.7	4.6	4.5	4.5	4.4	4.4
55 years and over .....	3.1	2.9	3.0	2.4	2.8	3.1	2.8	2.9	2.8	2.9	2.4	2.4	2.6

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

**A-39. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.8	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3
Men, 20 years and over .....	4.9	5.0	4.9	4.9	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7
Women, 20 years and over .....	5.2	5.1	5.1	4.9	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7
Both sexes, 16 to 19 years .....	16.0	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8
White .....	4.9	5.0	4.8	4.7	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6
Black and other .....	11.0	10.9	11.2	11.3	10.6	10.9	10.3	10.1	10.0	9.5	9.8	10.0	10.0
Black .....	12.3	12.2	12.4	12.5	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6
Hispanic origin .....	8.3	7.5	8.3	8.3	9.0	8.8	8.7	8.1	8.4	7.5	7.8	8.0	7.6
Married men, spouse present .....	3.4	3.5	3.4	3.4	3.1	3.3	3.2	3.1	3.4	3.1	3.1	3.3	3.1
Married women, spouse present .....	4.4	4.1	4.0	4.0	3.8	3.9	3.9	4.0	4.0	3.8	3.7	3.8	3.7
Women who maintain families .....	8.3	8.8	8.3	7.5	8.5	8.4	7.9	8.5	7.5	8.1	7.9	7.7	8.2
Full-time workers .....	5.4	5.4	5.3	5.3	5.1	5.2	5.0	5.0	5.3	5.1	5.0	5.0	5.1
Part-time workers .....	8.1	8.3	7.9	7.8	7.5	7.7	7.7	8.0	7.4	7.4	7.4	7.1	7.0
Unemployed 15 weeks and over <sup>1</sup> .....	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2
Labor force time lost <sup>2</sup> .....	6.8	6.6	6.6	6.5	6.2	6.4	6.3	6.4	6.4	6.3	6.1	6.2	6.3
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.7	5.8	5.7	5.6	5.4	5.6	5.4	5.4	5.6	5.4	5.4	5.5	5.4
Goods-producing industries .....	6.4	6.9	6.8	6.5	6.5	6.5	6.2	6.3	6.7	6.4	6.4	6.4	6.4
Mining .....	8.2	7.5	7.8	8.2	8.1	9.4	6.8	5.4	7.0	8.6	8.8	8.9	7.7
Construction .....	10.7	11.9	10.9	10.6	10.6	10.5	10.3	10.4	10.7	9.6	10.0	10.6	10.4
Manufacturing .....	5.2	5.5	5.6	5.2	5.3	5.3	4.9	5.2	5.5	5.4	5.3	5.1	5.2
Durable goods .....	4.8	5.3	5.7	5.1	4.8	4.9	4.5	4.9	5.0	5.2	5.0	4.9	5.0
Nondurable goods .....	5.6	5.8	5.4	5.4	5.9	5.9	5.5	5.6	6.3	5.8	5.7	5.3	5.5
Service-producing industries .....	5.3	5.3	5.2	5.2	4.8	5.2	5.1	5.0	5.1	5.0	4.9	5.1	4.9
Transportation and public utilities .....	4.6	3.7	3.8	4.1	3.8	4.2	4.1	3.6	3.8	3.8	3.5	4.0	3.8
Wholesale and retail trade .....	6.2	6.2	6.3	6.7	5.9	6.3	6.0	6.2	6.4	6.2	6.0	6.2	6.3
Finance and service industries .....	4.8	4.9	4.6	4.3	4.3	4.6	4.6	4.5	4.4	4.4	4.5	4.6	4.1
Government workers .....	3.0	3.0	2.9	2.9	3.0	2.9	2.9	3.0	2.9	2.7	2.6	2.5	2.7
Agricultural wage and salary workers .....	11.5	11.4	10.5	11.0	11.0	12.4	10.0	11.0	11.0	10.8	10.2	9.3	8.8

<sup>1</sup> Unemployment as a percent of the civilian labor force.

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

hours.

NOTE: Data have been revised based on the experience through December 1988. 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	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>DURATION</b>													
Less than 5 weeks .....	3,225	3,118	3,097	3,057	3,093	3,072	3,093	2,985	3,158	3,116	3,059	3,117	3,029
5 to 14 weeks .....	1,981	2,214	2,093	2,060	1,969	2,068	1,910	2,041	1,956	1,896	1,835	1,935	2,039
15 weeks and over .....	1,781	1,728	1,732	1,693	1,582	1,614	1,543	1,619	1,636	1,568	1,554	1,502	1,495
15 to 26 weeks .....	881	838	842	851	756	789	749	826	831	775	788	787	758
27 weeks and over .....	900	890	890	842	826	825	794	793	805	793	766	715	737
Average (mean) duration, in weeks .....	14.2	14.2	14.1	13.8	13.5	13.8	13.2	13.5	13.5	13.5	13.4	12.6	12.8
Median duration, in weeks .....	5.9	6.3	6.3	6.4	5.8	5.9	5.9	6.2	5.9	5.7	5.7	5.6	5.8
<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 .....	46.2	44.2	44.7	44.9	46.6	45.5	47.3	44.9	46.8	47.4	47.4	47.6	46.2
5 to 14 weeks .....	28.4	31.4	30.2	30.2	29.6	30.6	29.2	30.7	29.0	28.8	28.5	29.5	31.1
15 weeks and over .....	25.5	24.5	25.0	24.9	23.8	23.9	23.6	24.4	24.2	23.8	24.1	22.9	22.8
15 to 26 weeks .....	12.6	11.9	12.2	12.5	11.4	11.7	11.4	12.4	12.3	11.8	12.2	12.0	11.5
27 weeks and over .....	12.9	12.6	12.9	12.4	12.4	12.2	12.1	11.9	11.9	12.1	11.9	10.9	11.2

NOTE: Data have been revised based on the experience through December 1988. 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	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,192	3,181	3,182	3,131	2,968	3,201	3,070	3,085	3,112	3,079	2,951	3,031	3,066
On layoff .....	863	872	877	882	844	806	861	853	880	833	844	814	819
Other job losers .....	2,329	2,309	2,305	2,249	2,124	2,395	2,209	2,232	2,232	2,246	2,107	2,217	2,247
Job leavers .....	946	1,046	969	1,059	985	942	953	923	986	985	984	963	998
Reentrants .....	1,963	1,907	1,916	1,792	1,804	1,804	1,747	1,883	1,843	1,767	1,747	1,766	1,725
New entrants .....	900	870	855	871	886	811	800	799	800	761	747	799	799
<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 .....	45.6	45.4	46.0	45.7	44.7	47.4	46.7	46.1	46.2	46.7	45.9	46.2	46.5
On layoff .....	12.3	12.5	12.7	12.9	12.7	11.9	13.1	12.8	13.1	12.6	13.1	12.4	12.4
Other job losers .....	33.3	33.0	33.3	32.8	32.0	35.4	33.6	33.4	33.1	34.1	32.8	33.8	34.1
Job leavers .....	13.5	14.9	14.0	15.5	14.8	13.9	14.5	13.8	14.6	14.9	15.3	14.7	15.1
Reentrants .....	28.0	27.2	27.7	26.1	27.2	26.7	26.6	28.1	27.3	26.8	27.2	26.9	26.2
New entrants .....	12.9	12.4	12.4	12.7	13.3	12.0	12.2	11.9	11.9	11.5	11.6	12.2	12.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.6	2.6	2.6	2.6	2.4	2.6	2.5	2.5	2.6	2.5	2.4	2.5	2.5
Job leavers .....	.8	.9	.8	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants .....	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.5	1.5	1.4	1.4	1.4	1.4
New entrants .....	.7	.7	.7	.7	.7	.7	.7	.7	.7	.6	.6	.7	.7

NOTE: Data have been revised based on the experience through December 1988. 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	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	180,641	181,517	182,008	182,530	183,115	183,743	184,253	184,749	185,216	185,707	186,099	186,530	186,949
Labor force <sup>1</sup> .....	117,883	118,610	119,383	119,900	120,298	120,826	121,441	121,779	122,301	122,786	123,062	123,570	124,084
Percent of population <sup>2</sup> .....	65.3	65.3	65.6	65.7	65.7	65.8	65.9	65.9	66.0	66.1	66.1	66.2	66.4
Total employed <sup>1</sup> .....	109,681	110,426	110,944	111,662	112,178	112,974	113,926	114,576	115,224	115,893	116,398	116,892	117,539
Employment-population ratio <sup>3</sup> .....	60.7	60.8	61.0	61.2	61.3	61.5	61.8	62.0	62.2	62.4	62.5	62.7	62.9
Resident Armed Forces .....	1,700	1,692	1,687	1,695	1,750	1,741	1,726	1,733	1,749	1,740	1,710	1,690	1,686
Civilian employed .....	107,981	108,734	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843
Agriculture .....	3,087	3,191	3,165	3,134	3,163	3,191	3,263	3,186	3,193	3,212	3,139	3,126	3,223
Nonagricultural industries .....	104,894	105,543	106,091	106,833	107,264	108,042	108,937	109,657	110,282	110,940	111,549	112,076	112,620
Unemployed .....	8,202	8,184	8,439	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545
Unemployment rate <sup>4</sup> .....	7.0	6.9	7.1	6.9	6.8	6.5	6.2	5.9	5.8	5.6	5.4	5.4	5.3
Not in labor force .....	62,758	62,906	62,626	62,630	62,817	62,917	62,613	62,970	62,915	62,922	63,037	62,959	62,865
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	86,376	86,957	87,201	87,463	87,775	88,101	88,358	88,605	88,843	89,100	89,293	89,509	89,715
Labor force <sup>1</sup> .....	66,217	66,669	66,895	67,038	67,322	67,608	67,711	67,765	68,005	68,234	68,436	68,563	68,631
Percent of population <sup>2</sup> .....	76.7	76.7	76.7	76.6	76.7	76.7	76.6	76.5	76.5	76.6	76.6	76.6	76.5
Total employed <sup>1</sup> .....	61,738	62,235	62,280	62,459	62,796	63,249	63,503	63,815	64,168	64,475	64,811	64,962	65,035
Employment-population ratio <sup>3</sup> .....	71.5	71.6	71.4	71.4	71.5	71.8	71.9	72.0	72.2	72.4	72.6	72.6	72.5
Resident Armed Forces .....	1,551	1,539	1,533	1,540	1,592	1,583	1,567	1,572	1,587	1,579	1,548	1,527	1,534
Civilian employed .....	60,187	60,695	60,747	60,920	61,204	61,666	61,937	62,243	62,581	62,895	63,262	63,435	63,501
Unemployed .....	4,479	4,435	4,615	4,577	4,526	4,358	4,208	3,950	3,837	3,759	3,625	3,621	3,596
Unemployment rate <sup>4</sup> .....	6.8	6.7	6.9	6.8	6.7	6.4	6.2	5.8	5.8	5.5	5.3	5.3	5.2
Not in labor force .....	20,159	20,288	20,306	20,426	20,453	20,494	20,647	20,840	20,839	20,866	20,858	20,926	21,084
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	94,265	94,560	94,807	95,067	95,341	95,642	95,896	96,144	96,372	96,608	96,806	97,022	97,234
Labor force <sup>1</sup> .....	51,666	51,941	52,487	52,864	52,976	53,219	53,730	54,014	54,296	54,552	54,626	54,987	55,453
Percent of population <sup>2</sup> .....	54.8	54.9	55.4	55.6	55.6	55.6	56.0	56.2	56.3	56.5	56.4	56.7	57.0
Total employed <sup>1</sup> .....	47,943	48,191	48,664	49,202	49,382	49,725	50,423	50,760	51,056	51,418	51,588	51,930	52,504
Employment-population ratio <sup>3</sup> .....	50.9	51.0	51.3	51.8	51.8	52.0	52.6	52.8	53.0	53.2	53.3	53.5	54.0
Resident Armed Forces .....	149	152	154	155	158	158	160	161	161	161	162	163	162
Civilian employed .....	47,794	48,039	48,509	49,047	49,224	49,567	50,263	50,600	50,894	51,257	51,426	51,767	52,342
Unemployed .....	3,723	3,750	3,824	3,661	3,594	3,494	3,307	3,253	3,241	3,134	3,039	3,057	2,949
Unemployment rate <sup>4</sup> .....	7.2	7.2	7.3	6.9	6.8	6.6	6.2	6.0	6.0	5.7	5.6	5.6	5.3
Not in labor force .....	42,599	42,619	42,320	42,204	42,365	42,423	42,166	42,130	42,076	42,056	42,180	42,035	41,781

<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 1988. See the article in this issue for additional information.

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

(Numbers in thousands)

Employment status, sex, and age	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	178,941	179,825	180,321	180,835	181,365	182,002	182,527	183,016	183,467	183,967	184,389	184,840	185,253
Civilian labor force .....	116,183	116,919	117,695	118,205	118,548	119,085	119,714	120,046	120,552	121,045	121,352	121,881	122,388
Percent of population .....	64.9	65.0	65.3	65.4	65.4	65.4	65.6	65.6	65.7	65.8	65.8	65.9	66.1
Employed .....	107,981	108,734	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843
Employment-population ratio <sup>2</sup> .....	60.3	60.5	60.6	60.8	60.9	61.1	61.5	61.7	61.9	62.1	62.2	62.3	62.5
Unemployed .....	8,202	8,184	8,439	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545
Unemployment rate .....	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	77,571	78,169	78,393	78,647	78,883	79,217	79,466	79,678	79,898	80,194	80,418	80,676	80,925
Civilian labor force .....	60,594	61,100	61,193	61,364	61,670	61,908	62,068	62,083	62,270	62,522	62,721	62,843	62,971
Percent of population .....	78.1	78.2	78.1	78.0	78.2	78.1	78.1	77.9	77.9	78.0	78.0	77.9	77.8
Employed .....	56,943	57,426	57,405	57,575	57,885	58,316	58,613	58,828	59,147	59,448	59,756	59,905	60,017
Employment-population ratio <sup>2</sup> .....	73.4	73.5	73.2	73.2	73.4	73.6	73.8	73.8	74.0	74.1	74.3	74.3	74.2
Agriculture .....	2,229	2,327	2,301	2,252	2,297	2,316	2,386	2,314	2,298	2,280	2,243	2,258	2,307
Nonagricultural industries .....	54,714	55,099	55,103	55,323	55,589	56,000	56,227	56,514	56,849	57,168	57,514	57,647	57,711
Unemployed .....	3,651	3,674	3,788	3,789	3,785	3,592	3,455	3,255	3,123	3,074	2,965	2,938	2,953
Unemployment rate .....	6.0	6.0	6.2	6.2	6.1	5.8	5.6	5.2	5.0	4.9	4.7	4.7	4.7
Not in labor force .....	16,977	17,069	17,200	17,283	17,213	17,309	17,398	17,595	17,628	17,672	17,697	17,833	17,954
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	86,900	87,187	87,449	87,699	87,935	88,236	88,468	88,701	88,925	89,183	89,397	89,664	89,883
Civilian labor force .....	47,733	47,963	48,471	48,921	48,993	49,255	49,688	49,962	50,214	50,501	50,604	50,919	51,449
Percent of population .....	54.9	55.0	55.4	55.8	55.7	55.8	56.2	56.3	56.5	56.6	56.6	56.8	57.2
Employed .....	44,684	44,896	45,345	45,916	46,062	46,403	46,986	47,295	47,605	47,963	48,122	48,423	49,022
Employment-population ratio <sup>2</sup> .....	51.4	51.5	51.9	52.4	52.4	52.6	53.1	53.3	53.5	53.8	53.8	54.0	54.5
Agriculture .....	592	614	591	628	622	611	615	622	635	639	628	599	642
Nonagricultural industries .....	44,093	44,282	44,754	45,288	45,440	45,791	46,371	46,673	46,970	47,323	47,494	47,824	48,380
Unemployed .....	3,049	3,066	3,125	3,005	2,931	2,852	2,702	2,667	2,609	2,538	2,483	2,496	2,427
Unemployment rate .....	6.4	6.4	6.4	6.1	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9	4.7
Not in labor force .....	39,167	39,224	38,978	38,778	38,942	38,981	38,780	38,739	38,711	38,682	38,793	38,745	38,434
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,470	14,469	14,479	14,489	14,547	14,548	14,593	14,638	14,644	14,590	14,574	14,500	14,445
Civilian labor force .....	7,856	7,856	8,032	7,920	7,885	7,922	7,959	8,001	8,069	8,022	8,026	8,119	7,969
Percent of population .....	54.3	54.3	55.5	54.7	54.2	54.5	54.5	54.7	55.1	55.0	55.1	56.0	55.2
Employed .....	6,353	6,412	6,507	6,476	6,481	6,514	6,601	6,720	6,723	6,742	6,810	6,874	6,804
Employment-population ratio <sup>2</sup> .....	43.9	44.3	44.9	44.7	44.5	44.8	45.2	45.9	45.9	46.2	46.7	47.4	47.1
Agriculture .....	267	250	273	254	245	263	263	249	260	293	269	269	274
Nonagricultural industries .....	6,087	6,162	6,234	6,222	6,236	6,251	6,339	6,470	6,463	6,448	6,541	6,605	6,529
Unemployed .....	1,503	1,444	1,525	1,444	1,404	1,408	1,358	1,281	1,345	1,281	1,216	1,244	1,165
Unemployment rate .....	19.1	18.4	19.0	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6
Not in labor force .....	6,614	6,613	6,447	6,569	6,662	6,626	6,634	6,637	6,575	6,568	6,548	6,381	6,476

<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 1988. 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	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	154,204	154,893	155,245	155,609	155,982	156,435	156,806	157,145	157,448	157,772	158,048	158,347	158,611
Civilian labor force .....	100,530	101,066	101,620	102,135	102,413	102,735	103,224	103,386	103,758	104,255	104,555	104,900	105,286
Percent of population .....	65.2	65.2	65.5	65.6	65.7	65.7	65.8	65.8	65.8	66.1	66.2	66.2	66.4
Employed .....	94,486	94,943	95,337	96,027	96,345	96,900	97,642	98,084	98,527	99,204	99,691	99,909	100,436
Employment-population ratio <sup>2</sup> .....	61.3	61.3	61.4	61.7	61.8	61.9	62.3	62.4	62.6	62.9	63.1	63.1	63.3
Unemployed .....	6,044	6,123	6,283	6,109	6,067	5,835	5,581	5,302	5,231	5,050	4,864	4,991	4,849
Unemployment rate .....	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.7	4.8	4.6
<b>Men, 20 years and over</b>													
Civilian labor force .....	53,128	53,516	53,564	53,691	53,959	54,120	54,205	54,191	54,365	54,546	54,678	54,805	54,894
Percent of population .....	78.5	78.5	78.4	78.4	78.6	78.5	78.5	78.2	78.3	78.3	78.3	78.3	78.3
Employed .....	50,384	50,707	50,673	50,832	51,068	51,350	51,570	51,718	51,956	52,231	52,465	52,541	52,624
Employment-population ratio <sup>2</sup> .....	74.5	74.4	74.2	74.2	74.4	74.5	74.6	74.7	74.8	75.0	75.2	75.1	75.0
Unemployed .....	2,744	2,809	2,891	2,859	2,891	2,770	2,635	2,473	2,409	2,315	2,212	2,264	2,270
Unemployment rate .....	5.2	5.2	5.4	5.3	5.4	5.1	4.9	4.6	4.4	4.2	4.0	4.1	4.1
<b>Women, 20 years and over</b>													
Civilian labor force .....	40,585	40,748	41,140	41,586	41,577	41,734	42,113	42,327	42,474	42,764	42,926	43,099	43,522
Percent of population .....	54.3	54.4	54.8	55.3	55.1	55.2	55.6	55.7	55.8	56.1	56.2	56.3	56.7
Employed .....	38,380	38,474	38,860	39,401	39,465	39,712	40,181	40,446	40,626	40,967	41,186	41,305	41,801
Employment-population ratio <sup>2</sup> .....	51.4	51.4	51.8	52.4	52.3	52.5	53.0	53.3	53.4	53.7	53.9	54.0	54.5
Unemployed .....	2,205	2,274	2,280	2,185	2,112	2,022	1,932	1,881	1,848	1,797	1,740	1,794	1,722
Unemployment rate .....	5.4	5.6	5.5	5.3	5.1	4.8	4.6	4.4	4.4	4.2	4.1	4.2	4.0
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,818	6,802	6,916	6,858	6,876	6,882	6,905	6,868	6,918	6,945	6,952	6,996	6,870
Percent of population .....	57.5	57.3	58.2	57.7	57.8	57.7	57.8	57.4	58.0	58.4	58.5	59.1	58.5
Employed .....	5,722	5,762	5,803	5,793	5,812	5,838	5,891	5,920	5,944	6,006	6,040	6,063	6,012
Employment-population ratio <sup>2</sup> .....	48.2	48.6	48.9	48.8	48.9	49.0	49.3	49.5	49.8	50.5	50.9	51.2	51.2
Unemployed .....	1,095	1,040	1,112	1,065	1,065	1,043	1,014	948	974	938	912	933	858
Unemployment rate .....	16.1	15.3	16.1	15.5	15.5	15.2	14.7	13.8	14.1	13.5	13.1	13.3	12.5
Men .....	17.1	15.8	17.1	16.2	16.0	16.3	16.2	14.4	14.9	14.2	13.9	14.2	13.4
Women .....	15.0	14.8	15.0	14.8	15.0	13.9	13.1	13.1	13.2	12.8	12.3	12.4	11.5
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,790	19,863	19,945	20,028	20,120	20,218	20,310	20,398	20,481	20,568	20,651	20,737	20,813
Civilian labor force .....	12,473	12,559	12,753	12,600	12,709	12,836	12,883	13,076	13,167	13,137	13,090	13,240	13,342
Percent of population .....	63.0	63.2	63.9	62.9	63.2	63.5	63.4	64.1	64.3	63.9	63.4	63.8	64.1
Employed .....	10,573	10,734	10,873	10,751	10,893	11,053	11,201	11,426	11,546	11,512	11,530	11,751	11,831
Employment-population ratio <sup>2</sup> .....	53.4	54.0	54.5	53.7	54.1	54.7	55.1	56.0	56.4	56.0	55.8	56.7	56.8
Unemployed .....	1,900	1,825	1,880	1,849	1,816	1,783	1,682	1,650	1,621	1,626	1,559	1,489	1,510
Unemployment rate .....	15.2	14.5	14.7	14.7	14.3	13.9	13.1	12.6	12.3	12.4	11.9	11.2	11.3
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,813	5,874	5,928	5,904	5,962	5,979	6,007	6,053	6,050	6,117	6,114	6,109	6,161
Percent of population .....	74.6	74.8	75.1	74.5	74.9	74.7	74.7	74.9	74.5	75.0	74.6	74.2	74.5
Employed .....	5,026	5,120	5,169	5,116	5,196	5,278	5,322	5,397	5,431	5,461	5,486	5,532	5,557
Employment-population ratio <sup>2</sup> .....	64.5	65.2	65.5	64.6	65.3	65.9	66.1	66.8	66.9	66.9	66.9	67.2	67.2
Unemployed .....	786	754	758	788	766	702	685	656	619	656	628	577	603
Unemployment rate .....	13.5	12.8	12.8	13.3	12.8	11.7	11.4	10.8	10.2	10.7	10.3	9.4	9.8
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,769	5,776	5,886	5,854	5,902	5,984	6,007	6,108	6,180	6,161	6,103	6,216	6,277
Percent of population .....	58.6	58.5	59.3	58.7	58.9	59.5	59.5	60.2	60.6	60.2	59.4	60.2	60.6
Employed .....	5,027	5,071	5,143	5,132	5,161	5,227	5,324	5,402	5,499	5,497	5,449	5,595	5,646
Employment-population ratio <sup>2</sup> .....	51.0	51.3	51.8	51.5	51.5	52.0	52.7	53.2	54.0	53.7	53.0	54.2	54.5
Unemployed .....	742	705	743	723	741	756	683	706	681	663	654	621	631
Unemployment rate .....	12.9	12.2	12.6	12.3	12.5	12.6	11.4	11.6	11.0	10.8	10.7	10.0	10.1

See footnotes at end of table.

**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	1985	1986				1987				1988			
	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 .....	891	909	939	842	844	873	869	915	937	859	873	915	904
Percent of population .....	41.5	42.5	44.0	39.4	39.4	40.6	40.2	42.2	43.1	39.5	40.0	41.9	41.5
Employed .....	520	543	561	503	535	548	555	627	616	553	595	623	628
Employment-population ratio <sup>2</sup> .....	24.2	25.4	26.3	23.6	25.0	25.5	25.7	28.9	28.4	25.5	27.3	28.5	28.8
Unemployed .....	372	366	378	339	309	325	315	288	321	306	278	292	276
Unemployment rate .....	41.7	40.3	40.3	40.2	36.6	37.2	36.2	31.5	34.2	35.6	31.8	31.9	30.5
Men .....	42.8	40.4	39.9	40.4	37.0	36.0	36.3	32.8	33.0	37.4	31.0	31.7	31.6
Women .....	40.4	40.2	40.7	40.1	36.2	38.6	36.1	30.0	35.5	33.8	32.8	32.1	29.3
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	12,075	12,184	12,290	12,397	12,504	12,692	12,809	12,926	13,043	13,153	13,268	13,382	13,495
Civilian labor force .....	7,804	7,862	8,013	8,172	8,252	8,400	8,501	8,528	8,724	8,889	8,914	9,007	9,119
Percent of population .....	64.6	64.5	65.2	65.9	66.0	66.2	66.4	66.0	66.9	67.6	67.2	67.3	67.6
Employed .....	6,968	7,007	7,166	7,278	7,418	7,581	7,763	7,830	7,981	8,176	8,127	8,286	8,409
Employment-population ratio <sup>2</sup> .....	57.7	57.5	58.3	58.7	59.3	59.7	60.6	60.6	61.2	62.2	61.3	61.9	62.3
Unemployed .....	837	855	847	894	834	819	738	698	743	713	787	721	709
Unemployment rate .....	10.7	10.9	10.6	10.9	10.1	9.8	8.7	8.2	8.5	8.0	8.8	8.0	7.8

<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 1988. 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	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>EMPLOYED</b>													
Full-time workers .....	89,246	89,788	90,142	90,899	91,267	92,009	92,576	93,336	93,886	94,527	95,069	95,345	95,866
Men, 16 years and over .....	54,161	54,550	54,510	54,744	54,945	55,388	55,532	55,910	56,164	56,452	56,838	56,948	57,028
Men, 20 years and over .....	52,765	53,178	53,105	53,386	53,609	54,026	54,244	54,501	54,755	55,035	55,372	55,460	55,545
Women, 16 years and over .....	35,096	35,245	35,633	36,135	36,357	36,611	37,046	37,449	37,729	38,014	38,271	38,453	38,852
Women, 20 years and over .....	34,040	34,218	34,542	35,123	35,351	35,560	35,979	36,331	36,602	36,922	37,178	37,318	37,769
Both sexes, 16 to 19 years .....	2,441	2,392	2,495	2,390	2,307	2,423	2,354	2,504	2,528	2,570	2,520	2,567	2,552
Part-time workers .....	18,761	18,968	19,098	19,030	19,175	19,246	19,603	19,449	19,632	19,670	19,549	19,771	20,021
Men, 16 years and over .....	6,049	6,142	6,224	6,174	6,286	6,264	6,387	6,346	6,440	6,412	6,399	6,515	6,499
Men, 20 years and over .....	4,189	4,244	4,288	4,185	4,285	4,285	4,362	4,337	4,393	4,410	4,372	4,459	4,471
Women, 16 years and over .....	12,722	12,799	12,862	12,896	12,895	12,949	13,212	13,143	13,194	13,219	13,153	13,293	13,522
Women, 20 years and over .....	10,662	10,688	10,798	10,763	10,731	10,851	11,012	10,926	11,026	11,048	10,949	11,053	11,283
Both sexes, 16 to 19 years .....	3,910	4,036	4,011	4,082	4,160	4,110	4,229	4,186	4,213	4,212	4,228	4,260	4,268
<b>UNEMPLOYED</b>													
Looking for full-time work .....	6,709	6,698	6,852	6,698	6,608	6,348	6,064	5,791	5,658	5,516	5,305	5,333	5,255
Men, 16 years and over .....	3,881	3,864	3,985	3,918	3,890	3,773	3,610	3,405	3,288	3,159	3,089	3,120	3,093
Men, 20 years and over .....	3,423	3,462	3,530	3,533	3,528	3,355	3,223	3,036	2,923	2,860	2,746	2,753	2,739
Women, 16 years and over .....	2,824	2,826	2,882	2,763	2,700	2,583	2,466	2,393	2,390	2,305	2,229	2,232	2,196
Women, 20 years and over .....	2,483	2,497	2,546	2,436	2,394	2,300	2,186	2,130	2,092	2,037	1,982	1,990	1,935
Both sexes, 16 to 19 years .....	803	739	776	730	687	693	655	625	642	620	577	590	582
Looking for part-time work .....	1,498	1,500	1,556	1,553	1,514	1,525	1,422	1,415	1,421	1,396	1,331	1,353	1,286
Men, 16 years and over .....	597	569	629	641	618	607	591	568	556	563	530	545	518
Men, 20 years and over .....	227	219	246	257	255	249	218	221	198	226	206	188	211
Women, 16 years and over .....	901	931	927	902	902	915	836	848	866	828	811	808	772
Women, 20 years and over .....	574	574	565	575	547	559	505	531	524	508	490	505	494
Both sexes, 16 to 19 years .....	698	706	745	721	712	717	699	663	699	662	635	661	580

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 1988. 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	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>CHARACTERISTIC</b>													
Total .....	107,981	108,734	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843
Married men, spouse present .....	39,263	39,437	39,613	39,698	39,878	40,036	40,087	40,316	40,611	40,471	40,435	40,514	40,465
Married women, spouse present .....	26,805	26,789	26,966	27,349	27,485	27,793	28,231	28,196	28,228	28,589	28,694	28,771	28,979
Women who maintain families .....	5,544	5,721	5,801	5,870	5,950	5,936	6,013	6,108	6,173	6,154	6,074	6,234	6,373
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,519	1,568	1,512	1,539	1,589	1,626	1,638	1,639	1,622	1,626	1,596	1,597	1,677
Self-employed workers .....	1,410	1,453	1,482	1,433	1,419	1,406	1,451	1,411	1,427	1,418	1,377	1,398	1,401
Unpaid family workers .....	165	172	166	168	170	147	162	149	150	137	156	148	150
Nonagricultural industries:													
Wage and salary workers .....	96,736	97,622	98,065	98,572	98,941	99,668	100,462	101,174	101,781	102,417	102,553	103,299	103,802
Government .....	16,164	16,229	16,315	16,464	16,357	16,526	16,722	16,901	17,047	16,998	17,002	17,096	17,350
Private industries .....	80,572	81,394	81,750	82,108	82,584	83,142	83,739	84,273	84,735	85,419	85,551	86,203	86,452
Private households .....	1,213	1,218	1,271	1,257	1,193	1,225	1,216	1,179	1,216	1,160	1,137	1,126	1,190
Other industries .....	79,359	80,176	80,479	80,851	81,391	81,917	82,523	83,094	83,519	84,259	84,414	85,077	85,262
Self-employed workers .....	7,921	7,717	7,723	7,984	8,081	8,170	8,144	8,210	8,274	8,326	8,640	8,536	8,567
Unpaid family workers .....	257	259	238	264	259	259	267	269	245	241	290	241	266
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,486	5,461	5,791	5,505	5,628	5,511	5,337	5,353	5,414	5,352	5,131	5,210	5,115
Slack work .....	2,304	2,327	2,573	2,457	2,491	2,421	2,339	2,388	2,387	2,402	2,292	2,351	2,349
Could only find part-time work .....	2,878	2,830	2,873	2,723	2,801	2,733	2,678	2,631	2,670	2,590	2,486	2,467	2,395
Voluntary part time .....	13,670	13,844	13,922	13,939	14,043	14,177	14,443	14,451	14,554	14,618	14,791	15,098	15,323
Nonagricultural industries:													
Part time for economic reasons .....	5,263	5,234	5,530	5,271	5,369	5,227	5,066	5,066	5,136	5,100	4,901	4,979	4,860
Slack work .....	2,184	2,174	2,425	2,306	2,340	2,230	2,156	2,206	2,210	2,245	2,150	2,202	2,196
Could only find part-time work .....	2,776	2,754	2,776	2,661	2,701	2,647	2,597	2,551	2,575	2,504	2,402	2,406	2,305
Voluntary part time .....	13,224	13,391	13,498	13,525	13,602	13,719	13,953	13,989	14,093	14,163	14,332	14,663	14,864

<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 1988. See the article in this issue for additional information.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

(In thousands)

Sex and age	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over .....	107,981	108,734	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843
16 to 24 years .....	20,306	20,364	20,288	20,209	20,188	20,186	20,149	20,231	20,101	20,150	20,077	20,103	19,886
16 to 19 years .....	6,353	6,412	6,507	6,476	6,481	6,514	6,601	6,720	6,723	6,742	6,810	6,874	6,804
16 to 17 years .....	2,475	2,549	2,643	2,619	2,679	2,696	2,689	2,797	2,758	2,730	2,725	2,680	2,715
18 to 19 years .....	3,892	3,891	3,861	3,826	3,821	3,836	3,906	3,900	3,975	4,015	4,080	4,175	4,095
20 to 24 years .....	13,952	13,952	13,781	13,734	13,707	13,672	13,548	13,512	13,378	13,409	13,267	13,229	13,083
25 years and over .....	87,661	88,398	88,943	89,781	90,223	91,068	92,021	92,649	93,355	94,004	94,575	95,152	95,944
25 to 54 years .....	73,386	74,147	74,551	75,392	75,953	76,647	77,551	78,164	78,715	79,379	79,987	80,587	81,197
55 years and over .....	14,287	14,223	14,376	14,420	14,278	14,397	14,462	14,519	14,643	14,601	14,576	14,587	14,750
Men, 16 years and over .....	60,187	60,695	60,747	60,920	61,204	61,666	61,937	62,243	62,581	62,895	63,262	63,435	63,501
16 to 24 years .....	10,564	10,664	10,554	10,540	10,529	10,509	10,395	10,473	10,391	10,424	10,458	10,439	10,323
16 to 19 years .....	3,244	3,269	3,343	3,345	3,319	3,350	3,324	3,415	3,434	3,447	3,506	3,530	3,484
16 to 17 years .....	1,296	1,312	1,375	1,353	1,369	1,384	1,367	1,408	1,410	1,409	1,400	1,395	1,407
18 to 19 years .....	1,961	1,972	1,967	1,973	1,969	1,972	1,953	1,987	2,039	2,036	2,103	2,122	2,093
20 to 24 years .....	7,321	7,395	7,212	7,195	7,211	7,159	7,071	7,058	6,957	6,977	6,952	6,909	6,840
25 years and over .....	49,619	50,054	50,171	50,389	50,673	51,173	51,521	51,788	52,184	52,473	52,786	53,024	53,172
25 to 54 years .....	41,178	41,626	41,723	42,029	42,276	42,666	42,982	43,293	43,602	43,944	44,256	44,519	44,720
55 years and over .....	8,455	8,412	8,439	8,369	8,411	8,497	8,531	8,507	8,593	8,517	8,517	8,513	8,463
Women, 16 years and over .....	47,794	48,039	48,509	49,047	49,224	49,567	50,263	50,600	50,894	51,257	51,426	51,767	52,342
16 to 24 years .....	9,741	9,700	9,733	9,669	9,658	9,677	9,754	9,759	9,710	9,726	9,619	9,664	9,563
16 to 19 years .....	3,110	3,143	3,164	3,131	3,162	3,164	3,277	3,305	3,289	3,294	3,304	3,344	3,320
16 to 17 years .....	1,179	1,237	1,268	1,266	1,310	1,311	1,322	1,389	1,349	1,321	1,324	1,285	1,308
18 to 19 years .....	1,931	1,918	1,893	1,853	1,852	1,864	1,952	1,913	1,936	1,979	1,977	2,053	2,002
20 to 24 years .....	6,632	6,557	6,569	6,539	6,496	6,513	6,477	6,454	6,421	6,432	6,315	6,320	6,243
25 years and over .....	38,042	38,344	38,773	39,392	39,550	39,895	40,500	40,861	41,171	41,531	41,789	42,128	42,772
25 to 54 years .....	32,209	32,521	32,828	33,362	33,677	33,981	34,569	34,871	35,113	35,435	35,732	36,068	36,477
55 years and over .....	5,832	5,811	5,937	6,052	5,867	5,900	5,931	6,012	6,050	6,084	6,059	6,074	6,288

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

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

(In thousands)

Sex and age	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over .....	8,202	8,184	8,439	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545
16 to 24 years .....	3,218	3,109	3,201	3,106	3,011	2,995	2,859	2,703	2,631	2,600	2,475	2,466	2,404
16 to 19 years .....	1,503	1,444	1,525	1,444	1,404	1,408	1,358	1,281	1,345	1,281	1,216	1,244	1,165
16 to 17 years .....	682	663	689	661	648	672	664	604	653	598	548	609	538
18 to 19 years .....	823	789	841	773	755	743	695	673	688	689	667	634	622
20 to 24 years .....	1,715	1,665	1,676	1,662	1,607	1,586	1,501	1,422	1,286	1,319	1,259	1,222	1,239
25 years and over .....	4,974	5,084	5,233	5,143	5,093	4,872	4,645	4,509	4,427	4,306	4,181	4,219	4,126
25 to 54 years .....	4,383	4,479	4,677	4,560	4,525	4,398	4,141	4,018	3,936	3,830	3,712	3,754	3,692
55 years and over .....	574	614	563	582	562	480	505	488	491	481	469	456	436
Men, 16 years and over .....	4,479	4,435	4,615	4,577	4,526	4,358	4,208	3,950	3,837	3,759	3,625	3,621	3,596
16 to 24 years .....	1,742	1,649	1,746	1,701	1,621	1,612	1,562	1,450	1,403	1,397	1,325	1,337	1,310
16 to 19 years .....	828	761	827	788	741	767	753	695	714	685	660	683	643
16 to 17 years .....	362	358	363	363	334	363	372	328	348	320	297	325	303
18 to 19 years .....	466	411	470	411	405	413	386	358	362	375	365	350	336
20 to 24 years .....	913	888	919	914	880	846	810	755	689	712	665	654	667
25 years and over .....	2,728	2,789	2,864	2,888	2,891	2,754	2,638	2,511	2,419	2,371	2,292	2,293	2,274
25 to 54 years .....	2,368	2,433	2,524	2,520	2,521	2,451	2,315	2,206	2,124	2,066	2,002	2,013	1,998
55 years and over .....	350	363	343	368	363	306	322	305	294	309	288	277	276
Women, 16 years and over .....	3,723	3,750	3,824	3,661	3,594	3,494	3,307	3,253	3,241	3,134	3,039	3,057	2,949
16 to 24 years .....	1,476	1,460	1,455	1,405	1,390	1,382	1,296	1,253	1,228	1,203	1,150	1,129	1,094
16 to 19 years .....	674	683	698	656	663	642	605	586	632	596	556	561	522
16 to 17 years .....	320	306	325	298	314	308	292	276	305	278	250	284	235
18 to 19 years .....	357	378	371	362	350	331	310	315	327	314	302	284	286
20 to 24 years .....	802	777	757	749	727	741	691	667	597	607	594	568	572
25 years and over .....	2,246	2,294	2,369	2,255	2,203	2,118	2,008	1,998	2,008	1,935	1,889	1,926	1,852
25 to 54 years .....	2,016	2,046	2,153	2,040	2,003	1,947	1,826	1,811	1,812	1,764	1,710	1,742	1,694
55 years and over .....	224	251	220	213	199	174	183	183	197	172	182	179	161

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

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

(Civilian workers)

Sex and age	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over .....	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3
16 to 24 years .....	13.7	13.2	13.6	13.3	13.0	12.9	12.4	11.8	11.6	11.4	11.0	10.9	10.8
16 to 19 years .....	19.1	18.4	19.0	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6
16 to 17 years .....	21.6	20.6	20.7	20.2	19.5	19.9	19.8	17.8	19.1	18.0	16.7	18.5	16.5
18 to 19 years .....	17.4	16.9	17.9	16.8	16.5	16.2	15.1	14.7	14.8	14.7	14.0	13.2	13.2
20 to 24 years .....	10.9	10.7	10.8	10.8	10.5	10.4	10.0	9.5	8.8	9.0	8.7	8.5	8.7
25 years and over .....	5.4	5.4	5.6	5.4	5.3	5.1	4.8	4.6	4.5	4.4	4.2	4.2	4.1
25 to 54 years .....	5.6	5.7	5.9	5.7	5.6	5.4	5.1	4.9	4.8	4.6	4.4	4.5	4.3
55 years and over .....	3.9	4.1	3.8	3.9	3.8	3.2	3.4	3.2	3.2	3.2	3.1	3.0	2.9
Men, 16 years and over .....	6.9	6.8	7.1	7.0	6.9	6.6	6.4	6.0	5.8	5.6	5.4	5.4	5.4
16 to 24 years .....	14.2	13.4	14.2	13.9	13.3	13.3	13.1	12.2	11.9	11.8	11.2	11.4	11.3
16 to 19 years .....	20.3	18.9	19.8	19.1	18.3	18.6	18.5	16.9	17.2	16.6	15.8	16.2	15.6
16 to 17 years .....	21.8	21.4	20.9	21.2	19.6	20.8	21.4	18.9	19.8	18.5	17.5	18.9	17.7
18 to 19 years .....	19.2	17.2	19.3	17.2	17.1	17.3	16.5	15.3	15.1	15.6	14.8	14.2	13.8
20 to 24 years .....	11.1	10.7	11.3	11.3	10.9	10.6	10.3	9.7	9.0	9.3	8.7	8.6	8.9
25 years and over .....	5.2	5.3	5.4	5.4	5.4	5.1	4.9	4.6	4.4	4.3	4.2	4.1	4.1
25 to 54 years .....	5.4	5.5	5.7	5.7	5.6	5.4	5.1	4.8	4.6	4.5	4.3	4.3	4.3
55 years and over .....	4.0	4.1	3.9	4.2	4.1	3.5	3.6	3.5	3.3	3.5	3.3	3.2	3.2
Women, 16 years and over .....	7.2	7.2	7.3	6.9	6.8	6.6	6.2	6.0	6.0	5.8	5.6	5.6	5.3
16 to 24 years .....	13.2	13.1	13.0	12.7	12.6	12.5	11.7	11.4	11.2	11.0	10.7	10.5	10.3
16 to 19 years .....	17.8	17.9	18.1	17.3	17.3	16.9	15.6	15.1	16.1	15.3	14.4	14.4	13.6
16 to 17 years .....	21.4	19.8	20.4	19.1	19.3	19.0	18.1	16.6	18.4	17.4	15.9	18.1	15.3
18 to 19 years .....	15.6	16.4	16.4	16.3	15.9	15.1	13.7	14.1	14.4	13.7	13.2	12.2	12.5
20 to 24 years .....	10.8	10.6	10.3	10.3	10.1	10.2	9.6	9.4	8.5	8.6	8.6	8.2	8.4
25 years and over .....	5.6	5.6	5.8	5.4	5.3	5.0	4.7	4.7	4.6	4.5	4.3	4.4	4.2
25 to 54 years .....	5.9	5.9	6.2	5.8	5.6	5.4	5.0	4.9	4.9	4.7	4.6	4.6	4.4
55 years and over .....	3.7	4.1	3.6	3.4	3.3	2.9	3.0	2.9	3.2	2.7	2.9	2.9	2.5

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

**A-50. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3
Men, 20 years and over .....	6.0	6.0	6.2	6.2	6.1	5.8	5.6	5.2	5.0	4.9	4.7	4.7	4.7
Women, 20 years and over .....	6.4	6.4	6.4	6.1	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9	4.7
Both sexes, 16 to 19 years .....	19.1	18.4	19.0	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6
White .....	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.7	4.8	4.6
Black and other .....	13.8	13.1	13.4	13.1	12.7	12.4	11.7	11.3	11.0	11.1	10.6	9.9	9.9
Black .....	15.2	14.5	14.7	14.7	14.3	13.9	13.1	12.6	12.3	12.4	11.9	11.2	11.3
Hispanic origin .....	10.7	10.9	10.6	10.9	10.1	9.8	8.7	8.2	8.5	8.0	8.8	8.0	7.8
Married men, spouse present .....	4.2	4.4	4.4	4.4	4.4	4.1	4.1	3.8	3.5	3.4	3.2	3.2	3.2
Married women, spouse present .....	5.4	5.3	5.4	5.1	4.9	4.6	4.3	4.2	4.2	4.0	3.9	3.9	3.7
Women who maintain families .....	10.1	10.0	9.8	9.8	9.6	9.7	9.4	9.1	8.6	8.2	8.2	8.0	7.9
Full-time workers .....	6.7	6.7	6.8	6.6	6.5	6.2	5.9	5.6	5.5	5.3	5.1	5.1	5.0
Part-time workers .....	9.1	9.0	9.3	9.2	9.0	8.2	8.2	8.2	8.2	8.0	7.6	7.6	7.2
Unemployed 15 weeks and over <sup>1</sup> .....	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.2
Labor force time lost <sup>2</sup> .....	7.9	7.9	8.1	7.9	7.7	7.4	7.2	6.8	6.7	6.6	6.3	6.4	6.2
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	7.1	7.0	7.2	7.0	6.9	6.6	6.3	6.0	5.8	5.7	5.5	5.5	5.4
Goods-producing industries .....	8.7	8.4	8.6	8.5	8.9	8.0	7.5	7.0	6.7	6.7	6.4	6.5	6.4
Mining .....	8.7	10.5	13.6	15.9	14.7	12.3	10.8	8.2	7.8	7.9	8.1	7.0	8.5
Construction .....	13.0	12.9	12.6	12.9	14.1	12.1	12.0	11.5	10.9	11.1	10.5	10.2	10.3
Manufacturing .....	7.5	7.1	7.2	7.0	7.2	6.7	6.1	5.7	5.4	5.4	5.2	5.4	5.2
Durable goods .....	7.5	7.0	7.1	6.7	7.0	6.5	6.0	5.6	5.1	5.4	4.8	5.0	5.0
Nondurable goods .....	7.5	7.2	7.4	7.4	7.5	6.9	6.3	5.8	6.0	5.5	5.8	5.9	5.5
Service-producing industries .....	6.3	6.3	6.5	6.3	6.0	5.9	5.7	5.5	5.4	5.2	5.0	5.0	5.0
Transportation and public utilities .....	5.2	5.3	5.3	5.1	4.7	4.5	4.6	4.3	4.4	3.9	4.0	3.7	3.8
Wholesale and retail trade .....	7.7	7.5	7.9	7.6	7.3	7.1	6.7	6.5	6.4	6.0	6.2	6.2	6.2
Finance and service industries .....	5.4	5.6	5.7	5.6	5.2	5.2	4.9	4.8	4.7	4.6	4.5	4.4	4.4
Government workers .....	3.8	3.8	3.6	3.3	3.6	3.6	3.5	3.4	3.3	2.9	2.9	2.9	2.6
Agricultural wage and salary workers .....	12.3	12.4	14.4	12.3	11.2	11.1	9.2	9.9	11.2	11.0	11.1	10.9	9.4

<sup>1</sup> Unemployment as a percent of the civilian labor force.

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

hours.

NOTE: Data have been revised based on the experience through December 1988. 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	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>DURATION</b>													
Less than 5 weeks .....	3,429	3,476	3,542	3,423	3,362	3,382	3,208	3,193	3,205	3,091	3,086	3,086	3,068
5 to 14 weeks .....	2,510	2,524	2,684	2,521	2,543	2,409	2,185	2,102	2,060	2,122	1,982	1,964	1,936
15 weeks and over .....	2,243	2,218	2,227	2,288	2,204	2,109	2,085	1,892	1,804	1,718	1,580	1,608	1,517
15 to 26 weeks .....	1,007	1,067	1,022	1,081	1,022	979	1,002	891	872	844	765	811	778
27 weeks and over .....	1,235	1,151	1,204	1,207	1,182	1,131	1,083	1,001	932	874	815	797	739
Average (mean) duration, in weeks .....	15.4	14.9	14.9	15.4	15.1	14.8	14.9	14.2	14.1	14.0	13.5	13.5	12.9
Median duration, in weeks .....	7.0	6.8	6.9	7.1	7.1	6.7	6.7	6.3	6.1	6.3	5.9	5.9	5.7
<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 .....	41.9	42.3	41.9	41.6	41.5	42.8	42.9	44.4	45.3	44.6	46.4	46.4	47.0
5 to 14 weeks .....	30.7	30.7	31.8	30.6	31.4	30.5	29.2	29.2	29.1	30.6	29.8	29.5	29.7
15 weeks and over .....	27.4	27.0	26.3	27.8	27.2	26.7	27.9	26.3	25.5	24.8	23.8	24.1	23.3
15 to 26 weeks .....	12.3	13.0	12.1	13.1	12.6	12.4	13.4	12.4	12.3	12.2	11.5	12.2	11.9
27 weeks and over .....	15.1	14.0	14.2	14.7	14.6	14.3	14.5	13.9	13.2	12.6	12.3	12.0	11.3

NOTE: Data have been revised based on the experience through December 1988. 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	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,051	4,031	4,167	4,005	3,951	3,847	3,634	3,409	3,313	3,165	3,080	3,092	3,016
On layoff .....	1,147	1,123	1,105	1,058	1,066	1,018	946	871	898	877	837	855	826
Other job losers .....	2,903	2,908	3,062	2,946	2,885	2,829	2,688	2,538	2,415	2,288	2,243	2,237	2,190
Job leavers .....	879	976	1,043	1,009	1,037	968	953	991	949	1,025	960	965	982
Reentrants .....	2,223	2,174	2,180	2,181	2,103	2,059	1,998	1,926	1,914	1,872	1,785	1,831	1,746
New entrants .....	1,036	1,011	1,056	1,051	1,003	994	921	873	893	865	832	787	782
<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 .....	49.5	49.2	49.3	48.6	48.8	48.9	48.4	47.4	46.9	45.7	46.3	46.3	46.2
On layoff .....	14.0	13.7	13.1	12.8	13.2	12.9	12.6	12.1	12.7	12.7	12.6	12.8	12.7
Other job losers .....	35.5	35.5	36.3	35.7	35.6	35.9	35.8	35.3	34.2	33.0	33.7	33.5	33.6
Job leavers .....	10.7	11.9	12.4	12.2	12.8	12.3	12.7	13.8	13.4	14.8	14.4	14.5	15.0
Reentrants .....	27.1	26.5	25.8	26.4	26.0	26.2	26.6	26.8	27.1	27.0	26.8	27.4	26.8
New entrants .....	12.7	12.3	12.5	12.7	12.4	12.6	12.3	12.1	12.6	12.5	12.5	11.8	12.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.5	3.4	3.5	3.4	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.5	2.5
On layoff .....	.8	.8	.9	.9	.9	.8	.8	.8	.8	.8	.8	.8	.8
Other job losers .....	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4
Job leavers .....	.9	.9	.9	.9	.8	.8	.8	.7	.7	.7	.7	.6	.6

NOTE: Data have been revised based on the experience through December 1988. See the article in this issue for additional information.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

(In thousands)

Reason, sex, and race	1985	1986				1987				1988			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Total not in labor force .....	62,758	62,906	62,626	62,630	62,817	62,917	62,813	62,970	62,915	62,922	63,037	62,959	62,865
Do not want a job now .....	56,732	57,195	56,846	56,695	56,987	57,062	57,048	57,324	57,357	57,490	57,630	58,202	57,491
Current activity:													
Going to school .....	6,324	6,246	6,475	6,121	6,343	6,423	6,388	6,317	6,436	6,350	6,329	7,022	6,229
Ill, disabled .....	3,957	4,176	4,064	4,088	3,907	4,147	4,207	4,431	4,397	4,292	4,482	4,453	4,730
Keeping house .....	26,885	26,747	26,529	26,120	26,069	26,205	25,553	25,563	25,578	25,304	25,339	25,331	24,588
Retired .....	15,213	15,204	15,319	15,840	16,025	15,870	16,259	16,341	16,456	16,869	16,797	16,825	17,251
Other activity .....	4,353	4,822	4,458	4,525	4,643	4,416	4,641	4,672	4,490	4,675	4,683	4,571	4,693
Want a job now .....	5,997	5,767	5,856	5,931	5,848	5,775	5,885	5,788	5,455	5,484	5,318	5,276	5,418
Reason not looking:													
School attendance .....	1,477	1,441	1,381	1,511	1,415	1,364	1,479	1,516	1,371	1,327	1,286	1,387	1,412
Ill health, disability .....	868	845	865	905	769	854	906	838	849	849	832	794	750
Home responsibilities .....	1,366	1,380	1,297	1,200	1,357	1,240	1,326	1,265	1,237	1,193	1,209	1,128	1,145
Think cannot get a job .....	1,179	1,059	1,130	1,160	1,150	1,107	1,053	1,026	913	990	914	941	951
Job-market factors .....	778	752	776	753	828	735	706	652	587	667	600	599	597
Personal factors .....	400	307	354	407	322	373	347	374	326	323	314	341	354
Other reasons <sup>1</sup> .....	1,107	1,042	1,183	1,155	1,158	1,209	1,122	1,142	1,085	1,125	1,076	1,026	1,160
<b>Men</b>													
Total not in labor force .....	20,159	20,288	20,306	20,426	20,453	20,494	20,647	20,840	20,839	20,866	20,858	20,926	21,084
Do not want a job now .....	18,116	18,407	18,418	18,270	18,424	18,478	18,623	18,869	18,868	19,012	18,888	19,100	19,062
Want a job now .....	1,976	1,948	1,952	2,066	2,000	1,996	2,081	2,044	1,902	1,966	1,889	1,920	1,985
Reason not looking:													
School attendance .....	698	756	656	793	666	680	753	742	719	654	677	669	716
Ill health, disability .....	398	376	456	440	361	415	464	407	417	410	367	379	351
Think cannot get a job .....	496	412	410	431	499	452	437	445	364	440	414	447	446
Other reasons <sup>1</sup> .....	384	404	431	401	473	450	427	449	403	462	431	425	473
<b>Women</b>													
Total not in labor force .....	42,599	42,619	42,320	42,204	42,365	42,423	42,166	42,130	42,076	42,056	42,180	42,035	41,781
Do not want a job now .....	38,616	38,788	38,428	38,425	38,563	38,583	38,425	38,455	38,488	38,478	38,742	39,103	38,428
Want a job now .....	4,021	3,819	3,904	3,865	3,848	3,779	3,804	3,744	3,553	3,518	3,429	3,356	3,433
Reason not looking:													
School attendance .....	779	685	725	717	749	685	726	774	652	673	609	718	697
Ill health, disability .....	470	469	409	466	408	439	442	431	432	439	466	415	399
Home responsibilities .....	1,366	1,380	1,297	1,200	1,357	1,240	1,326	1,265	1,237	1,193	1,209	1,128	1,145
Think cannot get a job .....	682	647	720	729	651	655	615	581	549	551	500	494	505
Other reasons .....	724	638	752	753	684	760	695	693	682	663	645	601	688
<b>White</b>													
Total not in labor force .....	53,674	53,827	53,625	53,474	53,569	53,700	53,582	53,759	53,690	53,517	53,493	53,447	53,325
Do not want a job now .....	49,299	49,519	49,412	49,185	49,353	49,445	49,291	49,496	49,594	49,547	49,651	49,728	49,381
Want a job now .....	4,378	4,272	4,329	4,287	4,209	4,187	4,362	4,277	4,012	4,012	3,886	3,691	3,854
Reason not looking:													
School attendance .....	1,041	1,014	974	1,013	955	955	1,108	1,058	962	954	917	908	911
Ill health, disability .....	604	631	610	630	542	615	687	645	651	640	639	556	511
Home responsibilities .....	1,015	1,037	1,004	900	982	924	954	950	901	848	846	806	828
Think cannot get a job .....	801	712	758	827	801	745	718	679	611	670	596	600	676
Other reasons <sup>1</sup> .....	917	877	984	916	929	948	895	945	887	900	888	821	928
<b>Black</b>													
Total not in labor force .....	7,317	7,304	7,192	7,428	7,411	7,382	7,427	7,322	7,314	7,431	7,561	7,497	7,471
Do not want a job now .....	5,939	5,964	5,908	6,022	6,036	5,976	6,151	6,083	6,090	6,115	6,340	6,227	6,182
Want a job now .....	1,387	1,321	1,327	1,390	1,394	1,388	1,323	1,207	1,211	1,301	1,267	1,241	1,259
Reason not looking:													
School attendance .....	344	380	350	411	373	344	326	322	335	346	327	316	374
Ill health, disability .....	239	211	218	240	197	227	196	158	173	197	187	217	206
Home responsibilities .....	286	292	269	271	304	290	314	279	299	308	315	270	272
Think cannot get a job .....	352	306	307	271	297	327	314	294	244	264	276	290	210
Other reasons <sup>1</sup> .....	167	132	183	197	223	201	173	154	161	185	162	147	197

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

NOTE: Data have been revised based on the experience through December 1988. 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 1987	IV 1988	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>										
Total not in labor force .....	62,947	62,856	6,985	6,884	4,159	4,056	20,685	20,478	31,119	31,439
Do not want a job now .....	57,614	57,586	5,904	5,852	3,463	3,340	17,810	17,643	30,439	30,747
Current activity:										
Going to school .....	8,184	7,915	5,285	5,191	1,909	1,756	971	965	19	4
Ill, disabled .....	4,248	4,577	37	56	116	131	2,128	2,261	1,970	2,128
Keeping house .....	25,391	24,381	340	316	1,141	1,161	12,013	11,616	11,897	11,288
Retired .....	16,224	16,990	-	-	-	2	404	425	15,819	16,561
Other activity .....	3,567	3,723	242	289	297	290	2,294	2,376	734	766
Want a job now .....	5,333	5,271	1,082	1,033	695	715	2,875	2,833	679	689
Reason for not looking:										
School attendance .....	1,343	1,387	849	816	220	225	262	335	12	11
Ill health, disability .....	901	787	35	22	50	46	616	541	199	178
Home responsibilities .....	1,170	1,083	60	59	211	217	845	748	55	59
Think cannot get a job .....	891	923	71	73	92	105	537	562	191	183
Job-market factors .....	566	574	39	52	61	64	376	380	92	78
Personal factors .....	325	349	32	21	31	42	161	182	99	104
Other reasons <sup>1</sup> .....	1,028	1,091	67	63	122	122	615	647	222	258
<b>Men</b>										
Total not in labor force .....	21,130	21,361	3,459	3,373	1,532	1,462	4,163	4,276	11,977	12,250
Do not want a job now .....	19,229	19,393	2,889	2,853	1,280	1,193	3,388	3,440	11,676	11,908
Current activity:										
Going to school .....	4,113	4,022	2,717	2,676	1,028	980	363	365	7	2
Ill, disabled .....	2,226	2,379	14	31	57	77	1,274	1,311	881	960
Keeping house .....	484	439	27	9	27	5	158	168	275	257
Retired .....	10,325	10,488	-	-	-	2	308	308	10,017	10,178
Other activity .....	2,081	2,066	131	137	168	129	1,285	1,288	496	511
Want a job now .....	1,902	1,968	571	521	252	269	776	836	302	341
Reason for not looking:										
School attendance .....	707	702	485	442	117	140	100	114	5	6
Ill health, disability .....	458	382	21	7	43	27	292	261	103	87
Think cannot get a job .....	358	436	45	40	41	54	197	240	76	102
Other reasons <sup>1</sup> .....	378	448	20	32	51	48	187	221	118	146
<b>Women</b>										
Total not in labor force .....	41,817	41,495	3,526	3,511	2,628	2,594	16,521	16,202	19,141	19,189
Do not want a job now .....	38,385	38,192	3,017	2,998	2,182	2,149	14,423	14,204	18,763	18,841
Current activity:										
Going to school .....	4,071	3,893	2,569	2,514	879	776	610	602	13	2
Ill, disabled .....	2,023	2,198	24	26	58	55	853	950	1,088	1,169
Keeping house .....	24,907	23,942	313	306	1,116	1,156	11,854	11,447	11,623	11,032
Retired .....	5,899	6,502	-	-	-	-	97	118	5,801	6,383
Other activity .....	1,486	1,657	111	152	129	162	1,009	1,087	238	255
Want a job now .....	3,432	3,303	510	512	446	445	2,097	1,996	378	348
Reason not looking:										
School attendance .....	636	685	364	375	105	85	161	220	7	5
Ill health, disability .....	443	406	14	15	7	19	324	280	97	91
Home responsibilities .....	1,170	1,083	60	59	211	217	845	748	55	59
Think cannot get a job .....	533	487	25	33	52	51	340	321	115	81
Other reasons .....	650	643	47	30	71	73	427	427	104	112

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	IV 1987	IV 1988	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>WHITE</b>												
Total not in labor force .....	53,746	53,352	8,624	8,358	17,219	16,852	27,903	28,142	17,782	17,876	35,964	35,476
Do not want a job now .....	49,811	49,591	7,413	7,174	15,063	14,831	27,336	27,582	16,368	16,480	33,443	33,111
Current activity:												
Going to school .....	6,385	6,167	5,677	5,412	694	751	16	3	3,254	3,168	3,131	2,999
Ill, disabled .....	3,309	3,642	118	139	1,634	1,754	1,559	1,749	1,731	1,908	1,578	1,734
Keeping house .....	22,568	21,609	1,230	1,210	10,515	10,118	10,821	10,282	394	353	22,174	21,256
Retired .....	14,638	15,261	-	-	365	382	14,273	14,876	9,342	9,476	5,296	5,785
Other activity .....	2,911	2,912	388	413	1,855	1,826	667	672	1,647	1,575	1,264	1,337
Want a job now .....	3,935	3,761	1,207	1,182	2,154	2,018	567	562	1,415	1,397	2,523	2,365
Reason for not looking:												
School attendance .....	949	905	742	702	192	198	12	5	521	465	428	440
Ill health, disability .....	701	548	60	47	483	353	157	149	375	267	327	281
Home responsibilities .....	864	796	180	170	633	583	51	43	-	-	864	796
Think cannot get a job .....	598	663	86	124	357	389	152	150	214	323	385	341
Other reasons <sup>1</sup> .....	823	849	139	139	489	495	195	215	305	342	519	507
<b>BLACK</b>												
Total not in labor force .....	7,326	7,472	2,022	2,030	2,610	2,704	2,695	2,738	2,708	2,747	4,618	4,725
Do not want a job now .....	6,099	6,190	1,524	1,556	1,984	1,992	2,587	2,640	2,282	2,302	3,817	3,885
Current activity:												
Going to school .....	1,282	1,238	1,129	1,148	151	91	-	-	587	587	695	650
Ill, disabled .....	857	848	27	45	455	448	374	355	451	413	406	434
Keeping house .....	2,086	2,015	231	230	976	968	879	816	68	60	2,018	1,954
Retired .....	1,331	1,431	-	-	32	37	1,299	1,393	816	831	515	600
Other activity .....	543	658	137	133	370	448	35	76	360	411	183	247
Want a job now .....	1,227	1,282	499	474	626	712	107	97	426	446	800	839
Reason for not looking:												
School attendance .....	348	393	293	278	57	115	-	-	166	178	182	216
Ill health, disability .....	183	214	25	21	122	174	38	19	79	95	104	119
Home responsibilities .....	278	257	85	97	188	146	5	14	-	-	278	257
Think cannot get a job .....	246	212	55	47	155	139	36	26	119	90	127	123
Other reasons <sup>1</sup> .....	172	207	41	31	104	138	28	38	62	83	109	124
<b>HISPANIC ORIGIN</b>												
Total not in labor force .....	4,320	4,374	1,213	1,198	2,057	2,087	1,051	1,088	1,214	1,188	3,106	3,186
Do not want a job now .....	3,794	3,791	1,030	934	1,759	1,807	1,003	1,052	1,029	994	2,764	2,795
Current activity:												
Going to school .....	702	560	632	509	67	53	2	-	338	274	363	285
Ill, disabled .....	338	343	27	12	215	224	94	106	195	195	143	148
Keeping house .....	2,057	2,119	286	351	1,335	1,311	438	457	55	37	2,003	2,082
Retired .....	476	471	-	-	17	10	460	461	308	323	168	147
Other activity .....	221	298	85	62	125	209	9	28	133	165	87	133
Want a job now .....	526	583	182	261	297	282	47	38	184	193	341	391
Reason for not looking:												
School attendance .....	106	137	90	123	17	13	-	-	60	69	46	69
Ill health, disability .....	93	57	10	2	61	34	23	22	56	33	37	24
Home responsibilities .....	134	147	37	59	89	87	7	-	-	-	134	147
Think cannot get a job .....	87	125	26	50	53	72	7	4	29	54	57	71
Other reasons <sup>1</sup> .....	106	117	19	27	77	76	10	12	39	37	67	80

<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 1988							
	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 .....	119	2	-	28	89	106	13	9
Lacks education or training .....	152	12	33	101	6	100	28	25
Other personal handicap .....	78	7	9	53	9	69	7	1
Job-market factors:								
Could not find work .....	328	35	49	215	30	202	117	62
Thinks no job available .....	246	17	15	165	48	188	48	28
<b>Men</b>								
Personal factors:								
Employers think too young or old .....	60	-	-	16	44	49	10	4
Lacks education or training .....	41	6	16	20	-	26	5	8
Other personal handicap .....	51	7	4	36	6	49	-	-
Job-market factors:								
Could not find work .....	156	16	30	93	19	96	57	28
Thinks no job available .....	128	11	6	76	35	104	18	14
<b>Women</b>								
Personal factors:								
Employers think too young or old .....	59	2	-	12	46	57	3	5
Lacks education or training .....	111	6	17	81	6	74	23	17
Other personal handicap .....	27	-	5	16	4	20	7	1
Job-market factors:								
Could not find work .....	172	19	19	123	12	106	60	34
Thinks no job available .....	118	6	9	89	14	84	31	14

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 1987	IV 1988	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>												
Do not intend to seek work .....	53,095	53,224	5,842	5,928	16,757	16,529	30,496	30,766	45,937	45,873	5,583	5,737
Intend to seek work in the next 12 months .....	9,850	9,632	5,301	5,011	3,927	3,948	623	672	7,809	7,478	1,743	1,735
Never worked .....	1,657	1,591	1,476	1,391	178	181	2	19	1,136	1,043	452	456
Last worked over 5 years ago .....	1,174	1,131	45	45	932	866	199	220	902	843	239	257
Last worked 1 to 5 years ago .....	1,979	1,889	562	527	1,223	1,163	195	198	1,545	1,449	364	363
Worked during previous 12 months .....	5,040	5,021	3,218	3,048	1,595	1,738	227	236	4,227	4,144	688	660
<b>Men</b>												
Do not intend to seek work .....	17,155	17,513	2,385	2,392	3,112	3,187	11,657	11,935	14,604	14,848	2,048	2,135
Intend to seek work in the next 12 months .....	3,975	3,848	2,606	2,443	1,050	1,090	319	316	3,178	3,028	660	612
Never worked .....	736	727	710	678	27	49	-	-	523	503	180	183
Last worked over 5 years ago .....	276	260	9	11	172	162	94	87	185	174	80	61
Last worked 1 to 5 years ago .....	625	573	182	156	343	317	101	99	482	431	110	106
Worked during previous 12 months .....	2,338	2,288	1,705	1,598	509	560	124	130	1,989	1,920	289	262
<b>Women</b>												
Do not intend to seek work .....	35,941	35,711	3,457	3,536	13,645	13,342	18,837	18,833	31,333	31,025	3,535	3,602
Intend to seek work in the next 12 months .....	5,875	5,784	2,696	2,568	2,876	2,860	304	356	4,631	4,450	1,083	1,123
Never worked .....	920	864	766	713	151	132	2	19	613	540	272	273
Last worked over 5 years ago .....	899	872	36	34	760	704	103	133	717	669	159	195
Last worked 1 to 5 years ago .....	1,354	1,316	382	371	879	846	94	99	1,063	1,018	254	256
Worked during previous 12 months .....	2,702	2,733	1,512	1,450	1,086	1,178	104	106	2,238	2,224	398	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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	183,467	185,253	157,448	158,611	20,481	20,813	13,043	13,495
Civilian labor force .....	120,520	122,397	103,702	105,259	13,155	13,341	8,723	9,121
Percent of population .....	65.7	66.1	65.9	66.4	64.2	64.1	66.9	67.6
Employed .....	113,795	116,181	98,739	100,655	11,615	11,911	7,998	8,431
Agriculture .....	3,064	3,099	2,860	2,914	157	143	340	423
Nonagricultural industries .....	110,732	113,082	95,879	97,741	11,458	11,768	7,658	8,007
Unemployed .....	6,725	6,216	4,963	4,604	1,540	1,430	725	691
Unemployment rate .....	5.6	5.1	4.8	4.4	11.7	10.7	8.3	7.6
Not in labor force .....	62,947	62,856	53,746	53,352	7,326	7,472	4,320	4,374
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	87,256	88,181	75,441	76,075	9,187	9,345	6,461	6,691
Civilian labor force .....	66,125	66,820	57,659	58,198	6,479	6,598	5,247	5,503
Percent of population .....	75.8	75.8	76.4	76.5	70.5	70.6	81.2	82.2
Employed .....	62,483	63,403	54,874	55,591	5,743	5,882	4,818	5,101
Agriculture .....	2,408	2,420	2,229	2,261	138	124	302	377
Nonagricultural industries .....	60,074	60,984	52,645	53,330	5,605	5,758	4,517	4,725
Unemployed .....	3,643	3,416	2,784	2,607	736	716	428	401
Unemployment rate .....	5.5	5.1	4.8	4.5	11.4	10.8	8.2	7.3
Not in labor force .....	21,130	21,361	17,782	17,876	2,708	2,747	1,214	1,188
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	79,898	80,925	69,431	70,149	8,117	8,269	5,784	6,004
Civilian labor force .....	62,227	62,937	54,315	54,858	6,033	6,141	4,894	5,127
Percent of population .....	77.9	77.8	78.2	78.2	74.3	74.3	84.6	85.4
Employed .....	59,256	60,121	52,030	52,699	5,445	5,570	4,529	4,807
Agriculture .....	2,253	2,263	2,077	2,106	135	123	286	355
Nonagricultural industries .....	57,003	57,859	49,953	50,592	5,311	5,447	4,243	4,452
Unemployed .....	2,971	2,816	2,285	2,160	588	571	364	320
Unemployment rate .....	4.8	4.5	4.2	3.9	9.7	9.3	7.4	6.2
Not in labor force .....	17,671	17,988	15,116	15,290	2,084	2,128	891	877
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	96,211	97,072	82,007	82,536	11,294	11,468	6,582	6,805
Civilian labor force .....	54,395	55,577	46,043	47,060	6,676	6,743	3,476	3,619
Percent of population .....	56.5	57.3	56.1	57.0	59.1	58.8	52.8	53.2
Employed .....	51,313	52,777	43,865	45,063	5,872	6,029	3,180	3,329
Agriculture .....	655	679	631	653	19	19	38	46
Nonagricultural industries .....	50,658	52,098	43,234	44,411	5,853	6,010	3,142	3,283
Unemployed .....	3,082	2,800	2,178	1,997	804	714	296	290
Unemployment rate .....	5.7	5.0	4.7	4.2	12.0	10.6	8.5	8.0
Not in labor force .....	41,817	41,495	35,964	35,476	4,618	4,725	3,106	3,186
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	88,925	89,883	76,091	76,713	10,192	10,364	5,916	6,128
Civilian labor force .....	50,634	51,899	42,817	43,877	6,245	6,351	3,204	3,351
Percent of population .....	56.9	57.7	56.3	57.2	61.3	61.3	54.2	54.7
Employed .....	48,129	49,567	41,050	42,229	5,584	5,741	2,979	3,114
Agriculture .....	624	636	601	610	18	19	36	44
Nonagricultural industries .....	47,506	48,931	40,450	41,619	5,566	5,722	2,943	3,070
Unemployed .....	2,505	2,332	1,767	1,648	661	611	225	238
Unemployment rate .....	4.9	4.5	4.1	3.8	10.6	9.6	7.0	7.1
Not in labor force .....	38,291	37,984	33,273	32,836	3,947	4,012	2,712	2,777
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,644	14,445	11,926	11,749	2,172	2,180	1,342	1,363
Civilian labor force .....	7,659	7,561	6,570	6,523	877	849	625	643
Percent of population .....	52.3	52.3	55.1	55.5	40.4	38.9	46.6	47.2
Employed .....	6,411	6,492	5,659	5,727	586	601	490	510
Agriculture .....	187	200	183	197	4	1	18	24
Nonagricultural industries .....	6,223	6,292	5,476	5,530	582	600	472	486
Unemployed .....	1,249	1,069	911	796	292	248	135	133
Unemployment rate .....	16.3	14.1	13.9	12.2	33.2	29.2	21.6	20.7
Not in labor force .....	6,985	6,884	5,357	5,226	1,295	1,332	717	720

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-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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	13,043	13,495	7,733	8,128	1,549	1,563	866	852
Civilian labor force .....	8,723	9,121	5,270	5,663	830	866	598	554
Percent of population .....	66.9	67.6	68.1	69.7	53.6	55.4	69.1	65.0
Employed .....	7,998	8,431	4,798	5,207	734	789	560	512
Agriculture .....	340	423	295	377	4	4	9	9
Nonagricultural industries .....	7,658	8,007	4,503	4,830	729	785	551	503
Unemployed .....	725	691	472	456	96	77	39	42
Unemployment rate .....	8.3	7.6	9.0	8.1	11.6	8.9	6.5	7.6
Not in labor force .....	4,320	4,374	2,463	2,464	719	697	268	298
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	6,461	6,691	3,970	4,168	673	677	416	414
Civilian labor force .....	5,247	5,503	3,284	3,541	480	499	335	324
Percent of population .....	81.2	82.2	82.7	85.0	71.3	73.7	80.5	78.3
Employed .....	4,818	5,101	2,994	3,269	421	450	314	298
Agriculture .....	302	377	268	337	3	4	7	6
Nonagricultural industries .....	4,517	4,725	2,725	2,932	418	447	307	292
Unemployed .....	428	401	290	272	59	49	21	26
Unemployment rate .....	8.2	7.3	8.8	7.7	12.2	9.7	6.2	7.9
Not in labor force .....	1,214	1,188	686	627	193	177	81	90
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	5,784	6,004	3,523	3,714	609	612	396	390
Civilian labor force .....	4,894	5,127	3,035	3,268	454	467	327	311
Percent of population .....	84.6	85.4	86.1	88.0	74.5	76.3	82.6	79.7
Employed .....	4,529	4,807	2,794	3,058	401	427	308	287
Agriculture .....	286	355	254	317	3	4	7	6
Nonagricultural industries .....	4,243	4,452	2,539	2,741	398	423	300	281
Unemployed .....	364	320	241	210	53	40	20	24
Unemployment rate .....	7.4	6.2	7.9	6.4	11.7	8.6	6.0	7.7
Not in labor force .....	891	877	488	445	155	145	69	79
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	6,582	6,805	3,763	3,960	875	886	450	438
Civilian labor force .....	3,476	3,619	1,986	2,123	350	367	263	230
Percent of population .....	52.8	53.2	52.8	53.6	40.0	41.4	58.4	52.5
Employed .....	3,180	3,329	1,804	1,938	312	338	245	214
Agriculture .....	38	46	26	40	1	-	1	2
Nonagricultural industries .....	3,142	3,283	1,778	1,898	311	338	244	211
Unemployed .....	296	290	182	184	37	29	18	16
Unemployment rate .....	8.5	8.0	9.1	8.7	10.7	7.8	6.8	7.1
Not in labor force .....	3,106	3,186	1,777	1,837	526	519	186	208
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	5,916	6,128	3,351	3,506	785	800	428	411
Civilian labor force .....	3,204	3,351	1,812	1,937	319	341	252	220
Percent of population .....	54.2	54.7	54.1	55.2	40.6	42.6	58.9	53.5
Employed .....	2,979	3,114	1,677	1,792	291	316	238	204
Agriculture .....	36	44	24	38	1	-	1	2
Nonagricultural industries .....	2,943	3,070	1,653	1,754	289	316	237	202
Unemployed .....	225	238	135	144	28	25	14	16
Unemployment rate .....	7.0	7.1	7.5	7.4	8.9	7.3	5.7	7.3
Not in labor force .....	2,712	2,777	1,539	1,569	466	459	175	191
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	1,342	1,363	859	908	154	150	42	50
Civilian labor force .....	625	643	423	458	56	57	19	22
Percent of population .....	46.6	47.2	49.2	50.4	36.4	38.0	( <sup>2</sup> )	( <sup>2</sup> )
Employed .....	490	510	327	356	42	45	14	20
Agriculture .....	18	24	16	22	-	-	-	-
Nonagricultural industries .....	472	486	311	335	42	45	14	20
Unemployed .....	135	133	96	102	15	12	5	2
Unemployment rate .....	21.6	20.7	22.6	22.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	717	720	436	450	98	93	23	28

<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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	113,795	116,181	98,739	100,655	11,615	11,911	7,998	8,431
Men .....	62,483	63,403	54,874	55,591	5,743	5,882	4,818	5,101
Women .....	51,313	52,777	43,865	45,063	5,872	6,029	3,180	3,329
<b>OCCUPATION</b>								
Managerial and professional specialty .....	28,364	29,723	25,598	26,959	1,825	1,759	1,133	1,070
Executive, administrative, and managerial .....	13,573	14,322	12,377	13,162	815	778	552	543
Professional specialty .....	14,791	15,402	13,221	13,797	1,009	981	581	527
Technical, sales, and administrative support .....	35,686	35,923	31,381	31,395	3,196	3,406	2,015	2,060
Technicians and related support .....	3,415	3,578	2,960	3,102	294	307	120	165
Sales occupations .....	13,730	14,072	12,465	12,721	859	944	722	720
Administrative support, including clerical .....	18,541	18,273	15,956	15,572	2,042	2,154	1,173	1,175
Service occupations .....	15,119	15,514	11,906	12,263	2,700	2,702	1,376	1,692
Private household .....	946	941	713	718	210	209	122	186
Protective service .....	1,912	1,934	1,600	1,579	281	317	119	124
Service, except private household and protective .....	12,261	12,640	9,593	9,965	2,209	2,177	1,134	1,381
Precision production, craft, and repair .....	13,622	13,680	12,295	12,270	999	1,035	1,137	1,118
Mechanics and repairers .....	4,422	4,369	3,992	3,933	327	322	338	340
Construction trades .....	5,092	5,127	4,639	4,667	362	369	393	413
Other precision production, craft, and repair .....	4,108	4,184	3,665	3,670	310	344	406	365
Operators, fabricators, and laborers .....	17,743	18,044	14,547	14,746	2,699	2,790	1,951	2,047
Machine operators, assemblers, and inspectors .....	8,098	8,278	6,592	6,756	1,214	1,229	1,080	1,140
Transportation and material moving occupations .....	4,811	4,911	3,995	4,089	730	727	335	370
Handlers, equipment cleaners, helpers, and laborers .....	4,834	4,854	3,960	3,902	755	833	536	536
Construction laborers .....	795	786	643	642	134	123	99	125
Other handlers, equipment cleaners, helpers, and laborers .....	4,038	4,068	3,317	3,260	621	710	437	412
Farming, forestry, and fishing .....	3,262	3,295	3,012	3,022	197	220	386	444
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,523	1,579	1,358	1,433	135	122	271	347
Self-employed workers .....	1,407	1,385	1,370	1,346	22	21	65	70
Unpaid family workers .....	134	135	132	134	-	-	4	7
Nonagricultural industries:								
Wage and salary workers .....	102,123	104,160	87,953	89,545	11,070	11,345	7,258	7,496
Government .....	17,267	17,586	14,052	14,281	2,626	2,678	1,061	971
Private industries .....	84,856	86,575	73,902	75,263	8,444	8,667	6,197	6,526
Private households .....	1,212	1,190	911	899	269	270	145	216
Other industries .....	83,644	85,385	72,990	74,365	8,175	8,397	6,052	6,310
Self-employed workers .....	8,371	8,663	7,715	7,964	382	416	384	488
Unpaid family workers .....	239	259	211	232	6	8	17	22
<b>FULL- AND PART-TIME STATUS<sup>1</sup></b>								
Full-time schedules .....	91,932	93,878	79,535	81,114	9,564	9,807	6,650	7,033
Part time for economic reasons .....	5,242	4,954	4,210	3,981	890	826	579	627
Part time for noneconomic reasons .....	16,621	17,348	14,995	15,561	1,161	1,278	769	770

<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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	7,998	8,431	4,798	5,207	734	789	560	512
Men .....	4,818	5,101	2,994	3,269	421	450	314	298
Women .....	3,180	3,329	1,804	1,938	312	338	245	214
<b>OCCUPATION</b>								
Managerial and professional specialty .....	1,133	1,070	566	523	116	124	134	127
Executive, administrative, and managerial .....	552	543	293	266	53	54	68	68
Professional specialty .....	581	527	273	256	63	71	66	59
Technical, sales, and administrative support .....	2,015	2,060	1,095	1,136	216	207	208	168
Technicians and related support .....	120	165	61	81	10	27	13	10
Sales occupations .....	722	720	399	396	56	50	67	69
Administrative support, including clerical .....	1,173	1,175	635	658	150	130	129	90
Service occupations .....	1,376	1,692	806	1,076	114	142	59	57
Private household .....	122	186	64	89	-	5	5	1
Protective service .....	119	124	79	83	7	20	6	5
Service, except private household and protective .....	1,134	1,381	663	904	107	117	47	50
Precision production, craft, and repair .....	1,137	1,118	712	701	97	115	61	62
Mechanics and repairers .....	338	340	198	197	31	47	19	21
Construction trades .....	393	413	260	252	26	39	23	30
Other precision production, craft, and repair .....	406	365	254	252	40	28	20	11
Operators, fabricators, and laborers .....	1,951	2,047	1,281	1,369	189	194	90	95
Machine operators, assemblers, and inspectors .....	1,080	1,140	698	758	95	115	53	54
Transportation and material moving occupations .....	335	370	213	230	41	37	18	14
Handlers, equipment cleaners, helpers, and laborers .....	536	536	370	380	53	42	18	27
Construction laborers .....	99	125	81	85	4	9	3	5
Other handlers, equipment cleaners, helpers, and laborers .....	437	412	289	295	49	34	16	22
Farming, forestry, and fishing .....	386	444	338	403	2	6	7	3
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	271	347	239	311	4	3	4	6
Self-employed workers .....	65	70	55	60		1	4	2
Unpaid family workers .....	4	7	1	6				
Nonagricultural industries:								
Wage and salary workers .....	7,258	7,496	4,282	4,558	710	760	508	440
Government .....	1,061	971	670	605	132	151	44	46
Private industries .....	6,197	6,526	3,612	3,953	578	609	463	393
Private households .....	145	216	79	109	-	6	7	1
Other industries .....	6,052	6,310	3,533	3,844	578	603	456	392
Self-employed workers .....	384	488	214	257	20	23	40	63
Unpaid family workers .....	17	22	7	14	-	2	4	1
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	6,650	7,033	3,944	4,311	634	667	482	435
Part time for economic reasons .....	579	627	402	470	34	32	26	22
Part time for noneconomic reasons .....	769	770	451	427	66	90	52	55

<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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
Total, 16 years and over .....	113,795	116,181	98,739	100,655	11,615	11,911	7,998	8,431
16 to 19 years .....	6,411	6,492	5,659	5,727	586	601	490	510
16 to 17 years .....	2,588	2,548	2,350	2,274	177	213	145	143
18 to 19 years .....	3,823	3,944	3,309	3,453	408	388	345	367
20 to 24 years .....	13,370	13,060	11,527	11,159	1,482	1,514	1,294	1,312
25 years and over .....	94,016	96,628	81,554	83,769	9,547	9,796	6,214	6,609
25 to 54 years .....	79,221	81,720	68,439	70,509	8,218	8,494	5,574	5,883
55 years and over .....	14,795	14,908	13,115	13,260	1,329	1,301	641	727
Men, 16 years and over .....	62,483	63,403	54,874	55,591	5,743	5,882	4,818	5,101
16 to 19 years .....	3,227	3,282	2,844	2,893	298	313	289	294
16 to 17 years .....	1,271	1,269	1,156	1,135	89	114	83	72
18 to 19 years .....	1,956	2,013	1,688	1,758	209	199	206	222
20 to 24 years .....	6,899	6,777	5,976	5,778	743	781	761	833
25 years and over .....	52,356	53,344	46,054	46,920	4,702	4,789	3,768	3,975
25 to 54 years .....	43,712	44,831	38,278	39,221	4,023	4,155	3,384	3,551
55 years and over .....	8,644	8,514	7,776	7,699	679	634	383	424
Women, 16 years and over .....	51,313	52,777	43,865	45,063	5,872	6,029	3,180	3,329
16 to 19 years .....	3,183	3,210	2,815	2,834	288	288	201	215
16 to 17 years .....	1,317	1,279	1,194	1,139	89	99	63	70
18 to 19 years .....	1,866	1,931	1,621	1,695	199	189	139	145
20 to 24 years .....	6,470	6,282	5,551	5,380	739	734	533	479
25 years and over .....	41,659	43,285	35,500	36,849	4,845	5,007	2,446	2,635
25 to 54 years .....	35,508	36,890	30,161	31,288	4,195	4,339	2,188	2,332
55 years and over .....	6,150	6,395	5,339	5,561	650	667	258	303

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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
Total, 16 years and over .....	5.6	5.1	4.8	4.4	11.7	10.7	8.3	7.6
16 to 19 years .....	16.3	14.1	13.9	12.2	33.2	29.2	21.6	20.7
16 to 17 years .....	18.8	16.0	16.1	13.9	41.5	32.7	26.2	25.4
18 to 19 years .....	14.6	12.9	12.2	11.1	28.8	27.1	19.5	18.7
20 to 24 years .....	8.2	8.0	6.5	6.8	19.0	16.3	8.8	7.8
25 years and over .....	4.4	4.0	3.8	3.5	8.6	8.3	7.0	6.3
25 to 54 years .....	4.6	4.2	4.0	3.6	9.3	8.7	7.0	6.5
55 years and over .....	3.1	2.8	3.0	2.6	4.1	5.2	6.6	4.9
Men, 16 years and over .....	5.5	5.1	4.8	4.5	11.4	10.8	8.2	7.3
16 to 19 years .....	17.2	15.5	14.9	13.4	33.2	31.6	18.2	21.6
16 to 17 years .....	20.2	18.1	17.7	15.8	40.1	35.0	22.2	31.9
18 to 19 years .....	15.1	13.7	13.0	11.7	29.8	29.4	16.4	17.5
20 to 24 years .....	8.4	8.3	7.0	7.3	17.7	15.4	9.0	7.2
25 years and over .....	4.3	4.0	3.8	3.5	8.3	8.2	7.1	6.0
25 to 54 years .....	4.5	4.1	4.0	3.7	9.0	8.4	7.0	6.1
55 years and over .....	3.2	3.1	3.1	2.7	4.5	7.3	7.9	5.8
Women, 16 years and over .....	5.7	5.0	4.7	4.2	12.0	10.6	8.5	8.0
16 to 19 years .....	15.3	12.7	12.8	11.0	33.2	26.4	26.1	19.5
16 to 17 years .....	17.3	13.8	14.4	11.9	43.0	29.8	31.0	17.3
18 to 19 years .....	13.9	12.0	11.5	10.3	27.8	24.5	23.6	20.5
20 to 24 years .....	7.9	7.8	6.0	6.2	20.2	17.3	8.5	9.0
25 years and over .....	4.5	4.0	3.8	3.4	8.9	8.4	6.7	6.7
25 to 54 years .....	4.7	4.3	4.0	3.6	9.6	9.1	7.0	7.2
55 years and over .....	3.0	2.4	3.0	2.3	3.7	3.2	4.1	3.2

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>DURATION</b>								
Total, 16 years and over .....	6,725	6,216	4,963	4,604	1,540	1,430	725	691
Less than 5 weeks .....	3,071	2,946	2,337	2,230	634	631	363	352
5 to 14 weeks .....	2,021	1,901	1,475	1,381	476	469	206	202
15 weeks and over .....	1,633	1,370	1,151	994	430	329	156	137
15 to 26 weeks .....	765	681	522	503	211	154	70	72
27 weeks and over .....	868	689	629	490	219	176	86	64
Average (mean) duration, in weeks .....	14.1	12.9	13.7	12.7	15.5	13.7	13.1	11.5
Median duration, in weeks .....	6.0	5.5	5.6	5.3	7.0	6.2	5.0	4.9
<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 .....	45.7	47.4	47.1	48.4	41.1	44.2	50.0	50.9
5 to 14 weeks .....	30.1	30.6	29.7	30.0	30.9	32.8	28.4	29.2
15 weeks and over .....	24.3	22.0	23.2	21.6	27.9	23.0	21.5	19.8
15 to 26 weeks .....	11.4	11.0	10.5	10.9	13.7	10.7	9.7	10.4
27 weeks and over .....	12.9	11.1	12.7	10.6	14.2	12.3	11.8	9.3

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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	6,725	6,216	4,963	4,604	1,540	1,430	725	691
Job losers .....	3,153	2,876	2,378	2,174	684	629	376	328
On layoff .....	834	771	697	626	116	126	80	78
Other job losers .....	2,319	2,105	1,681	1,549	568	503	296	250
Job leavers .....	945	976	767	774	150	174	89	107
Reentrants .....	1,847	1,689	1,301	1,205	471	425	157	171
New entrants .....	780	674	517	451	235	201	93	85
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	46.9	46.3	47.9	47.2	44.4	44.0	51.9	47.5
On layoff .....	12.4	12.4	14.0	13.6	7.6	8.8	11.0	11.3
Other job losers .....	34.5	33.9	33.9	33.6	36.9	35.2	40.9	36.1
Job leavers .....	14.1	15.7	15.5	16.8	9.8	12.2	12.2	15.5
Reentrants .....	27.5	27.2	26.2	26.2	30.6	29.8	21.6	24.7
New entrants .....	11.6	10.8	10.4	9.8	15.2	14.1	12.8	12.3
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	2.6	2.3	2.3	2.1	5.2	4.7	4.3	3.6
Job leavers .....	.8	.8	.7	.7	1.1	1.3	1.0	1.2
Reentrants .....	1.5	1.4	1.3	1.1	3.6	3.2	1.8	1.9
New entrants .....	.6	.6	.5	.4	1.8	1.5	1.1	.9

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

**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 1987	IV 1988	Total		Employed		Unemployed			
			IV 1987	IV 1988	IV 1987	IV 1988	Number		Percent of labor force	
							IV 1987	IV 1988	IV 1987	IV 1988
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,859	7,903	7,259	7,297	6,934	7,027	324	270	4.5	3.7
30 to 34 years .....	6,108	5,766	5,808	5,482	5,527	5,280	281	202	4.8	3.7
35 to 39 years .....	834	609	791	570	717	532	74	38	9.3	6.7
40 to 44 years .....	2,440	2,001	2,322	1,914	2,224	1,839	99	75	4.2	3.9
45 years and over .....	2,834	3,155	2,695	2,998	2,586	2,909	109	89	4.0	3.0
	1,751	2,137	1,450	1,815	1,407	1,747	43	68	3.0	3.8
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	19,823	20,794	18,763	19,700	17,983	18,936	780	765	4.2	3.9
30 to 34 years .....	8,948	9,187	8,514	8,746	8,124	8,379	390	367	4.6	4.2
35 to 39 years .....	6,433	7,041	6,086	6,663	5,862	6,414	224	249	3.7	3.7
40 to 44 years .....	4,442	4,566	4,163	4,291	3,997	4,142	166	149	4.0	3.5

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.

**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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL, 30 to 44 years</b>												
Civilian noninstitutional population .....	5,406	5,067	588	604	253	209	17,053	17,889	2,006	2,069	1,812	1,976
Civilian labor force .....	5,168	4,857	529	532	239	202	16,298	17,147	1,766	1,826	1,691	1,886
Employed .....	4,944	4,706	479	486	221	196	15,701	16,554	1,612	1,681	1,582	1,789
Unemployed .....	223	151	50	46	19	6	596	593	156	145	109	97
Unemployment rate .....	4.3	3.1	9.4	8.7	7.9	2.9	3.7	3.5	8.8	8.0	6.4	5.2
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	676	482	133	120	59	39	7,770	7,948	895	923	804	858
Civilian labor force .....	646	459	121	104	58	39	7,460	7,643	800	829	764	823
Employed .....	594	439	100	87	50	39	7,166	7,363	714	753	715	782
Unemployed .....	51	20	21	17	8	1	295	280	86	76	48	41
Unemployment rate .....	8.0	4.3	17.1	16.3	( <sup>1</sup> )	( <sup>1</sup> )	4.0	3.7	10.7	9.2	6.3	5.0
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	2,152	1,762	240	206	91	85	5,485	6,027	659	708	548	682
Civilian labor force .....	2,061	1,698	215	183	86	80	5,229	5,777	588	625	498	655
Employed .....	1,984	1,637	198	171	80	76	5,055	5,583	546	578	466	617
Unemployed .....	77	62	17	12	7	4	173	194	42	47	33	37
Unemployment rate .....	3.7	3.6	7.8	6.8	7.9	4.4	3.3	3.4	7.2	7.5	6.6	5.7
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	2,577	2,824	216	279	102	85	3,798	3,914	452	437	460	437
Civilian labor force .....	2,461	2,700	193	245	95	83	3,609	3,727	379	373	429	408
Employed .....	2,366	2,630	180	228	91	81	3,481	3,608	352	351	401	389
Unemployed .....	95	70	12	17	4	2	128	119	28	22	28	19
Unemployment rate .....	3.9	2.6	6.5	6.8	4.6	2.0	3.5	3.2	7.3	5.9	6.5	4.7

<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 1987					IV 1988				
	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 .....	64,178	4,970	29.0	71.0	62.4	64,674	4,664	29.7	70.3	61.5
With children under 18 years of age .....	31,504	3,030	31.7	68.3	60.0	31,435	2,720	33.4	66.6	58.2
Married-couple families .....	50,833	3,449	19.2	80.8	72.2	50,881	3,155	19.0	81.0	72.2
With children under 18 years of age .....	24,069	2,128	18.5	81.5	72.7	23,899	1,903	18.8	81.2	72.4
Families maintained by women .....	10,703	1,239	54.2	45.8	36.6	10,986	1,221	55.0	45.0	35.6
With children under 18 years of age .....	6,446	790	63.9	36.1	28.7	6,431	711	68.5	31.5	23.9
Families maintained by men .....	2,642	282	38.3	61.7	54.6	2,807	288	39.2	60.8	53.8
With children under 18 years of age .....	989	112	55.4	44.6	40.2	1,104	106	60.4	39.6	34.0
<b>White</b>										
Total families .....	55,299	3,722	25.8	74.2	65.3	55,570	3,534	26.0	74.0	65.1
With children under 18 years of age .....	26,350	2,229	27.3	72.7	63.9	26,266	2,015	27.8	72.2	63.2
Married-couple families .....	45,817	2,852	19.3	80.7	72.0	45,928	2,639	18.8	81.2	72.2
With children under 18 years of age .....	21,327	1,741	18.3	81.7	72.8	21,235	1,566	18.4	81.6	72.5
Families maintained by women .....	7,402	674	49.0	51.0	40.8	7,503	697	50.5	49.5	40.5
With children under 18 years of age .....	4,242	403	59.0	41.0	31.6	4,201	374	62.0	38.0	29.1
Families maintained by men .....	2,080	196	40.3	59.7	52.6	2,140	199	35.2	64.8	57.3
With children under 18 years of age .....	781	85	61.2	38.8	35.3	829	74	54.1	45.9	39.2
<b>Black</b>										
Total families .....	7,082	1,078	40.9	59.1	51.4	7,233	1,002	41.8	58.2	49.1
With children under 18 years of age .....	4,124	688	46.7	53.3	46.9	4,097	625	49.8	50.2	43.0
Married-couple families .....	3,592	468	19.0	81.0	72.6	3,477	419	17.2	82.8	74.2
With children under 18 years of age .....	1,901	301	18.9	81.1	72.4	1,795	272	16.6	83.4	74.9
Families maintained by women .....	3,039	533	61.4	38.6	31.5	3,210	505	61.2	38.8	29.1
With children under 18 years of age .....	2,051	367	70.5	29.5	25.4	2,070	325	75.7	24.3	17.8
Families maintained by men .....	451	77	31.6	68.4	60.5	546	78	47.4	52.6	44.9
With children under 18 years of age .....	172	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	232	28	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total families .....	4,471	534	30.1	69.9	60.5	4,765	525	32.0	68.0	59.6
With children under 18 years of age .....	2,885	347	33.4	66.6	57.1	3,027	346	32.9	67.1	57.1
Married-couple families .....	3,100	403	25.3	74.7	65.8	3,275	356	25.9	74.1	65.6
With children under 18 years of age .....	2,007	281	25.6	74.4	65.1	2,141	255	22.7	77.3	67.8
Families maintained by women .....	1,076	105	49.5	50.5	39.0	1,156	124	48.4	51.6	40.3
With children under 18 years of age .....	758	59	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	767	78	60.3	39.7	28.2
Families maintained by men .....	295	26	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	334	45	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
With children under 18 years of age .....	120	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	119	13	( <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 1987				IV 1988			
	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> .....	5,427	31.3	68.7	59.9	5,063	32.2	67.8	59.2
Husbands .....	1,299	38.4	61.6	48.4	1,177	38.3	61.7	47.9
With children under 18 years of age .....	819	41.6	58.4	44.6	743	42.1	57.9	42.0
Wives .....	1,107	15.9	84.1	78.2	996	18.5	81.5	75.8
With children under 18 years of age .....	726	14.1	85.9	79.9	641	16.5	83.5	78.6
Relatives in married-couple families .....	1,345	10.4	89.6	82.7	1,261	10.2	89.8	83.6
Women who maintain families .....	571	84.1	15.9	9.4	533	86.1	13.9	7.9
With children under 18 years of age .....	490	90.4	9.6	4.9	449	93.2	6.8	2.8
Relatives in families maintained by women .....	795	34.5	65.5	54.5	793	35.6	64.4	53.1
Men who maintain families .....	122	60.3	39.7	31.1	126	67.0	33.0	25.9
With children under 18 years of age .....	58	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	63	91.2	8.8	3.8
Relatives in families maintained by men .....	187	29.8	70.2	62.7	178	22.6	77.4	70.9
<b>White</b>								
Total unemployed in families <sup>1</sup> .....	3,984	28.3	71.7	62.6	3,761	28.8	71.2	62.6
Husbands .....	1,091	39.3	60.7	46.6	979	38.5	61.5	47.3
With children under 18 years of age .....	676	42.5	57.5	42.7	602	43.0	57.0	40.7
Wives .....	923	15.6	84.4	78.8	836	18.1	81.9	75.9
With children under 18 years of age .....	597	13.2	86.8	80.9	524	15.8	84.2	79.2
Relatives in married-couple families .....	1,047	9.3	90.7	84.0	1,025	10.1	89.9	83.7
Women who maintain families .....	290	79.0	21.0	12.1	264	82.1	17.9	10.9
With children under 18 years of age .....	241	86.5	13.5	7.0	219	90.4	9.6	3.9
Relatives in families maintained by women .....	417	31.3	68.7	58.0	453	34.8	65.2	56.6
Men who maintain families .....	91	63.8	36.2	25.1	85	63.6	36.4	25.9
With children under 18 years of age .....	48	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	41	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	125	31.2	68.8	63.5	119	20.2	79.8	75.6
<b>Black</b>								
Total unemployed in families <sup>1</sup> .....	1,248	42.0	58.0	50.5	1,164	42.6	57.4	48.3
Husbands .....	162	34.2	65.8	58.1	166	35.5	64.5	52.0
With children under 18 years of age .....	108	36.6	63.4	53.5	119	33.4	66.6	52.0
Wives .....	143	19.6	80.4	73.2	127	20.9	79.1	74.8
With children under 18 years of age .....	107	21.2	78.8	72.8	92	19.4	80.6	75.8
Relatives in married-couple families .....	243	15.0	85.0	77.5	198	7.9	92.1	85.1
Women who maintain families .....	266	91.0	9.0	6.3	259	90.0	10.0	5.1
With children under 18 years of age .....	237	95.8	4.2	3.1	222	95.8	4.2	1.8
Relatives in families maintained by women .....	351	38.5	61.5	50.7	329	37.1	62.9	48.4
Men who maintain families .....	25	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	36	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	56	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	50	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Hispanic origin</b>								
Total unemployed in families <sup>1</sup> .....	595	30.9	69.1	58.8	585	34.4	65.6	57.7
Husbands .....	179	49.3	50.7	41.8	144	51.0	49.0	36.0
With children under 18 years of age .....	138	49.0	51.0	41.0	96	52.1	47.9	33.5
Wives .....	121	15.8	84.2	78.1	105	31.1	68.9	64.5
With children under 18 years of age .....	78	13.4	86.6	79.9	74	26.2	73.8	67.6
Relatives in married-couple families .....	151	9.1	90.9	76.1	163	11.6	88.4	83.4
Women who maintain families .....	43	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	48	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	35	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	44	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by women .....	75	35.7	64.3	53.4	78	25.9	74.1	61.6
Men who maintain families .....	8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	22	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	18	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	25	( <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 1987				IV 1988			
	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> .....	92,267	22.7	77.3	65.6	93,520	21.9	78.1	66.4
Husbands .....	38,613	29.6	70.4	51.3	38,598	28.3	71.7	52.6
With children under 18 years of age .....	22,196	31.1	68.9	46.3	22,125	29.9	70.1	47.2
Wives .....	27,795	8.6	91.4	86.4	28,408	8.3	91.7	86.8
With children under 18 years of age .....	15,027	4.9	95.1	91.2	15,272	4.4	95.6	91.7
Relatives in married-couple families .....	11,572	7.3	92.7	88.4	11,658	6.8	93.2	89.2
Women who maintain families .....	6,139	62.5	37.5	24.6	6,379	61.6	38.4	24.8
With children under 18 years of age .....	4,041	79.0	21.0	9.1	4,039	79.2	20.8	8.9
Relatives in families maintained by women .....	4,802	24.3	75.7	66.0	4,845	22.9	77.1	67.1
Men who maintain families .....	1,857	52.8	47.2	34.5	2,037	53.0	47.0	35.2
With children under 18 years of age .....	812	80.6	19.4	8.2	922	79.8	20.2	10.7
Relatives in families maintained by men .....	1,489	18.3	81.7	74.3	1,595	19.1	80.9	74.3
<b>White</b>								
Total employed in families <sup>1</sup> .....	80,332	22.1	77.9	65.6	81,382	21.2	78.8	66.6
Husbands .....	34,860	30.1	69.9	50.0	34,941	28.6	71.4	51.6
With children under 18 years of age .....	19,840	31.7	68.3	44.5	19,862	30.4	69.6	45.6
Wives .....	24,688	8.2	91.8	86.8	25,351	7.9	92.1	87.2
With children under 18 years of age .....	13,175	4.4	95.6	91.8	13,480	3.9	96.1	92.2
Relatives in married-couple families .....	10,160	7.1	92.9	88.6	10,204	6.7	93.3	89.2
Women who maintain families .....	4,389	60.5	39.5	25.0	4,515	59.0	41.0	25.5
With children under 18 years of age .....	2,850	77.6	22.4	8.5	2,814	77.5	22.5	8.8
Relatives in families maintained by women .....	3,555	25.4	74.6	64.9	3,522	23.3	76.7	66.0
Men who maintain families .....	1,504	52.6	47.4	34.2	1,593	51.3	48.7	35.7
With children under 18 years of age .....	653	80.8	19.2	7.9	708	76.7	23.3	11.8
Relatives in families maintained by men .....	1,176	17.5	82.5	75.9	1,256	19.5	80.5	74.0
<b>Black</b>								
Total employed in families <sup>1</sup> .....	9,045	28.1	71.9	63.5	9,136	29.3	70.7	62.5
Husbands .....	2,619	23.1	76.9	65.6	2,511	23.8	76.2	63.7
With children under 18 years of age .....	1,641	22.9	77.1	65.4	1,532	22.9	77.1	63.8
Wives .....	2,188	12.8	87.2	81.5	2,105	13.9	86.1	81.9
With children under 18 years of age .....	1,312	9.2	90.8	85.5	1,233	10.1	89.9	86.8
Relatives in married-couple families .....	995	9.8	90.2	85.2	989	8.3	91.7	87.2
Women who maintain families .....	1,598	68.5	31.5	23.2	1,716	68.5	31.5	22.5
With children under 18 years of age .....	1,101	82.7	17.3	10.6	1,147	82.5	17.5	9.3
Relatives in families maintained by women .....	1,136	21.4	78.6	69.3	1,197	21.9	78.1	69.6
Men who maintain families .....	276	58.7	41.3	31.5	355	61.8	38.2	30.8
With children under 18 years of age .....	137	82.3	17.7	7.8	186	89.7	10.3	7.2
Relatives in families maintained by men .....	233	25.1	74.9	62.1	262	18.5	81.5	74.3
<b>Hispanic origin</b>								
Total employed in families <sup>1</sup> .....	6,412	26.5	73.5	63.7	6,883	24.9	75.1	65.2
Husbands .....	2,457	37.6	62.4	48.5	2,682	35.9	64.1	50.0
With children under 18 years of age .....	1,744	39.7	60.3	45.8	1,938	38.7	61.3	45.7
Wives .....	1,572	8.1	91.9	85.4	1,650	6.8	93.2	87.9
With children under 18 years of age .....	1,053	7.5	92.5	86.7	1,078	5.4	94.6	88.8
Relatives in married-couple families .....	963	7.8	92.2	85.5	936	5.9	94.1	89.1
Women who maintain families .....	534	62.6	37.4	27.3	634	59.1	40.9	30.3
With children under 18 years of age .....	364	79.9	20.1	12.6	400	78.5	21.5	14.0
Relatives in families maintained by women .....	465	19.3	80.7	72.0	457	16.9	83.1	68.8
Men who maintain families .....	243	55.2	44.8	37.9	272	40.5	59.5	50.8
With children under 18 years of age .....	101	87.7	12.3	8.2	99	70.4	29.6	27.0
Relatives in families maintained by men .....	179	8.1	91.9	84.6	252	8.2	91.8	86.7

<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		Median weekly earnings	
	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>				
Total families with earners <sup>1</sup> .....	43,079	42,845	\$579	\$606
Married-couple families .....	34,031	33,519	647	684
One earner .....	12,554	11,901	419	426
Husband .....	9,504	8,938	488	500
Wife .....	2,242	2,307	236	243
Other family member .....	808	656	209	229
Two or more earners .....	21,477	21,618	782	820
Husband and wife .....	18,937	19,160	795	832
Husband and other family member(s) .....	1,868	1,775	740	780
Wife and other family member(s) .....	522	525	498	512
Other family members only .....	150	159	527	492
Families maintained by women .....	7,174	7,255	329	338
One earner .....	4,753	4,825	261	257
Householder .....	3,703	3,848	267	265
Other family member .....	1,051	977	228	222
Two or more earners .....	2,421	2,430	526	567
Families maintained by men .....	1,875	2,070	481	479
One earner .....	1,100	1,290	350	362
Two or more earners .....	774	780	691	705
<b>White</b>				
Total families with earners <sup>1</sup> .....	36,794	36,453	599	630
Married-couple families .....	30,104	29,791	658	695
One earner .....	11,209	10,617	433	447
Husband .....	8,617	8,141	496	509
Wife .....	1,914	1,913	236	250
Two or more earners .....	18,895	19,174	792	828
Husband and wife .....	16,672	17,049	805	840
Families maintained by women .....	5,204	5,096	344	356
Families maintained by men .....	1,485	1,566	504	491
<b>Black</b>				
Total families with earners <sup>1</sup> .....	5,046	5,144	431	440
Married-couple families .....	2,927	2,755	539	572
One earner .....	948	903	296	265
Husband .....	570	515	352	339
Wife .....	272	312	219	205
Two or more earners .....	1,979	1,852	681	719
Husband and wife .....	1,767	1,607	688	735
Families maintained by women .....	1,807	1,988	294	291
Families maintained by men .....	312	401	351	444
<b>Hispanic origin</b>				
Total families with earners <sup>1</sup> .....	3,333	3,571	450	441
Married-couple families .....	2,443	2,503	496	491
One earner .....	1,043	1,074	317	296
Husband .....	829	907	345	308
Wife .....	126	125	199	208
Two or more earners .....	1,400	1,429	627	691
Husband and wife .....	1,159	1,186	658	713
Families maintained by women .....	632	788	303	294
Families maintained by men .....	258	281	433	417

<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.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	IV 1987	IV 1988	IV 1987	IV 1988
Married-couple families <sup>1</sup> .....	2,439	2,210	\$405	\$442
Husband unemployed .....	760	757	251	253
Wife only earner .....	598	594	237	232
Wife and other earner(s) .....	97	94	( <sup>2</sup> )	( <sup>2</sup> )
Other earner(s) only .....	65	69	( <sup>2</sup> )	( <sup>2</sup> )
Wife unemployed .....	813	708	397	468
Husband only earner .....	726	591	386	427
Husband and other earner(s) .....	72	107	( <sup>2</sup> )	649
Other earner(s) only .....	14	10	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	866	745	667	672
Husband or wife earner .....	320	291	505	494
Both husband and wife earners .....	486	429	828	814
Other combinations of earners .....	61	24	( <sup>2</sup> )	( <sup>2</sup> )
Families maintained by women <sup>1</sup> .....	537	540	278	254
Householder unemployed .....	86	83	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	452	456	299	276
Families maintained by men <sup>1</sup> .....	145	159	355	296

<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 1987	IV 1988	IV 1987	IV 1988
<b>SEX AND AGE</b>				
Total, 16 years and over .....	81,563	82,964	\$381	\$392
Men, 16 years and over .....	47,405	47,885	445	458
16 to 24 years .....	6,345	6,310	265	271
25 years and over .....	41,060	41,575	481	491
Women, 16 years and over .....	34,157	35,079	309	320
16 to 24 years .....	5,412	5,191	232	241
25 years and over .....	28,746	29,888	326	341
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	31,332	30,951	493	507
Wives .....	17,680	18,176	316	327
Women who maintain families .....	4,841	4,996	309	312
Men who maintain families .....	1,478	1,614	402	405
Other persons in families:				
Men .....	6,111	6,143	274	284
Women .....	4,463	4,247	244	256
All other men <sup>1</sup> .....	8,484	9,176	411	408
All other women <sup>1</sup> .....	7,172	7,662	338	361
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	69,784	70,920	391	402
Men .....	41,231	41,580	462	475
Women .....	28,553	29,339	312	323
Black .....	9,339	9,474	306	314
Men .....	4,760	4,866	334	342
Women .....	4,579	4,608	283	291
Hispanic origin .....	6,350	6,632	290	281
Men .....	3,984	4,224	316	299
Women .....	2,366	2,408	253	251

<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 DATA**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	IV 1987	IV 1988	IV 1987	IV 1988
<b>SEX AND AGE</b>				
Total, 16 years and over .....	18,941	19,347	\$101	\$106
Men, 16 years and over .....	5,901	6,036	94	100
16 to 24 years .....	3,385	3,382	77	80
25 years and over .....	2,516	2,654	122	137
Women, 16 years and over .....	13,039	13,311	105	110
16 to 24 years .....	4,043	4,108	76	74
25 years and over .....	8,997	9,203	119	130
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	1,626	1,616	124	138
Wives .....	6,969	6,969	123	136
Women who maintain families .....	1,032	1,085	107	121
Men who maintain families .....	108	119	118	120
Other persons in families:				
Men .....	3,179	3,338	76	81
Women .....	3,439	3,445	71	70
All other men <sup>1</sup> .....	982	963	108	129
All other women <sup>1</sup> .....	1,606	1,812	107	104
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	16,627	16,879	102	107
Men .....	5,051	5,127	95	99
Women .....	11,576	11,752	106	111
Black .....	1,799	1,910	92	99
Men .....	659	686	87	98
Women .....	1,140	1,224	95	100
Hispanic origin .....	1,076	1,096	105	109
Men .....	428	380	108	106
Women .....	648	716	104	112

<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 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>				
Managerial and professional specialty .....	21,475	22,215	\$537	\$559
Executive, administrative, and managerial .....	10,646	10,849	551	566
Professional specialty .....	10,830	11,365	527	561
Technical, sales, and administrative support .....	24,974	24,735	341	358
Technicians and related support .....	2,879	2,918	440	458
Sales occupations .....	7,787	7,827	377	404
Administrative support, including clerical .....	14,309	13,991	316	323
Service occupations .....	8,051	8,833	237	246
Private household .....	315	309	142	153
Protective service .....	1,584	1,839	415	417
Service, except private household and protective .....	6,152	6,685	220	225
Precision production, craft, and repair .....	10,993	10,973	430	437
Mechanics and repairers .....	3,818	3,749	436	442
Construction trades .....	3,555	3,697	420	432
Other precision production, craft, and repair .....	3,620	3,527	437	436
Operators, fabricators, and laborers .....	14,851	14,901	309	316
Machine operators, assemblers, and inspectors .....	7,605	7,587	295	302
Transportation and material moving occupations .....	3,851	3,857	385	394
Handlers, equipment cleaners, helpers, and laborers .....	3,395	3,457	284	289
Farming, forestry, and fishing .....	1,218	1,307	224	238
<b>Men</b>				
Managerial and professional specialty .....	11,895	12,086	647	674
Executive, administrative, and managerial .....	6,423	6,302	667	686
Professional specialty .....	5,472	5,783	628	661
Technical, sales, and administrative support .....	9,284	9,201	463	481
Technicians and related support .....	1,592	1,604	501	512
Sales occupations .....	4,605	4,575	483	507
Administrative support, including clerical .....	3,087	3,021	412	418
Service occupations .....	3,984	4,317	294	298
Private household .....	22	0	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,383	1,594	428	423
Service, except private household and protective .....	2,580	2,723	254	255
Precision production, craft, and repair .....	10,112	10,116	445	453
Mechanics and repairers .....	3,695	3,612	436	447
Construction trades .....	3,521	3,628	421	434
Other precision production, craft, and repair .....	2,896	2,876	479	476
Operators, fabricators, and laborers .....	11,047	11,023	344	358
Machine operators, assemblers, and inspectors .....	4,541	4,554	351	367
Transportation and material moving occupations .....	3,675	3,647	389	399
Handlers, equipment cleaners, helpers, and laborers .....	2,830	2,822	292	297
Farming, forestry, and fishing .....	1,082	1,143	229	245
<b>Women</b>				
Managerial and professional specialty .....	9,580	10,129	451	476
Executive, administrative, and managerial .....	4,222	4,547	421	442
Professional specialty .....	5,358	5,582	471	493
Technical, sales, and administrative support .....	15,690	15,535	299	310
Technicians and related support .....	1,287	1,313	379	405
Sales occupations .....	3,182	3,252	249	264
Administrative support, including clerical .....	11,221	10,970	302	310
Service occupations .....	4,066	4,516	200	211
Private household .....	293	309	140	153
Protective service .....	201	245	327	364
Service, except private household and protective .....	3,572	3,962	202	212
Precision production, craft, and repair .....	881	857	307	277
Mechanics and repairers .....	123	137	476	347
Construction trades .....	34	69	( <sup>1</sup> )	( <sup>1</sup> )
Other precision production, craft, and repair .....	724	651	290	267
Operators, fabricators, and laborers .....	3,804	3,878	237	242
Machine operators, assemblers, and inspectors .....	3,064	3,033	232	238
Transportation and material moving occupations .....	175	210	317	293
Handlers, equipment cleaners, helpers, and laborers .....	565	635	248	244
Farming, forestry, and fishing .....	135	164	191	204

<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 1987	IV 1988	Total		Central cities		Suburbs	
			IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	183,467	185,253	143,187	144,625	57,236	57,260	85,952	87,364
Civilian labor force .....	120,520	122,397	95,433	96,886	36,902	37,256	58,531	59,630
Percent of population .....	65.7	66.1	66.6	67.0	64.5	65.1	68.1	68.3
Employed .....	113,795	116,181	90,347	92,139	34,429	34,939	55,918	57,200
Unemployed .....	6,725	6,216	5,086	4,748	2,473	2,317	2,613	2,431
Unemployment rate .....	5.6	5.1	5.3	4.9	6.7	6.2	4.5	4.1
Not in labor force .....	62,947	62,856	47,754	47,738	20,334	20,004	27,420	27,734
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	79,898	80,925	62,283	63,199	24,560	24,461	37,723	38,737
Civilian labor force .....	62,227	62,937	49,122	49,783	18,751	18,719	30,371	31,063
Percent of population .....	77.9	77.8	78.9	78.8	76.3	76.5	80.5	80.2
Employed .....	59,256	60,121	46,886	47,641	17,613	17,655	29,273	29,986
Unemployed .....	2,971	2,816	2,236	2,142	1,138	1,064	1,098	1,078
Unemployment rate .....	4.8	4.5	4.6	4.3	6.1	5.7	3.6	3.5
Not in labor force .....	17,671	17,988	13,161	13,416	5,809	5,742	7,353	7,674
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	88,925	89,883	69,493	70,236	28,373	28,501	41,120	41,735
Civilian labor force .....	50,634	51,899	40,276	41,221	16,033	16,386	24,243	24,835
Percent of population .....	56.9	57.7	58.0	58.7	56.5	57.5	59.0	59.5
Employed .....	48,129	49,567	38,354	39,413	15,109	15,517	23,245	23,896
Unemployed .....	2,505	2,332	1,922	1,808	924	869	998	939
Unemployment rate .....	4.9	4.5	4.8	4.4	5.8	5.3	4.1	3.8
Not in labor force .....	38,291	37,984	29,217	29,015	12,340	12,115	16,877	16,900
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,644	14,445	11,411	11,190	4,303	4,298	7,108	6,892
Civilian labor force .....	7,659	7,561	6,035	5,883	2,118	2,151	3,918	3,732
Percent of population .....	52.3	52.3	52.9	52.6	49.2	50.0	55.1	54.2
Employed .....	6,411	6,492	5,107	5,085	1,707	1,767	3,400	3,318
Unemployed .....	1,249	1,069	928	798	411	384	517	414
Unemployment rate .....	16.3	14.1	15.4	13.6	19.4	17.8	13.2	11.1
Not in labor force .....	6,985	6,884	5,376	5,307	2,185	2,147	3,191	3,160
<b>White</b>								
Civilian noninstitutional population .....	157,448	158,611	121,338	122,231	42,928	42,918	78,410	79,314
Civilian labor force .....	103,702	105,259	81,090	82,208	27,887	28,185	53,203	54,023
Percent of population .....	65.9	66.4	66.8	67.3	65.0	65.7	67.9	68.1
Employed .....	98,739	100,655	77,438	78,616	26,431	26,796	51,007	52,020
Unemployed .....	4,963	4,604	3,652	3,392	1,455	1,389	2,197	2,003
Unemployment rate .....	4.8	4.4	4.5	4.1	5.2	4.9	4.1	3.7
Not in labor force .....	53,746	53,352	40,248	40,023	15,041	14,733	25,207	25,290
<b>Black</b>								
Civilian noninstitutional population .....	20,481	20,813	17,048	17,269	11,962	11,766	5,086	5,503
Civilian labor force .....	13,155	13,341	11,108	11,291	7,477	7,420	3,631	3,871
Percent of population .....	64.2	64.1	65.2	65.4	62.5	63.1	71.4	70.3
Employed .....	11,615	11,911	9,836	10,080	6,556	6,569	3,280	3,511
Unemployed .....	1,540	1,430	1,273	1,211	922	851	351	360
Unemployment rate .....	11.7	10.7	11.5	10.7	12.3	11.5	9.7	9.3
Not in labor force .....	7,326	7,472	5,940	5,979	4,485	4,347	1,455	1,632
<b>Hispanic origin</b>								
Civilian noninstitutional population .....	13,043	13,495	12,095	12,464	6,972	7,064	5,123	5,400
Civilian labor force .....	8,723	9,121	8,110	8,408	4,479	4,622	3,631	3,787
Percent of population .....	66.9	67.6	67.1	67.5	64.2	65.4	70.9	70.1
Employed .....	7,998	8,431	7,452	7,796	4,061	4,227	3,392	3,569
Unemployed .....	725	691	658	613	418	395	240	218
Unemployment rate .....	8.3	7.6	8.1	7.3	9.3	8.6	6.6	5.7
Not in labor force .....	4,320	4,374	3,985	4,056	2,493	2,442	1,491	1,614

**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 1987	IV 1988	IV 1987	IV 1988
	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988				
<b>TOTAL</b>										
Civilian noninstitutional population .....	40,280	40,629	2,758	2,754	37,522	37,875	135,175	136,175	48,292	49,079
Civilian labor force .....	25,087	25,510	1,937	1,971	23,150	23,539	89,253	90,407	31,267	31,990
Percent of population .....	62.3	62.8	70.2	71.6	61.7	62.2	66.0	66.4	64.7	65.2
Employed .....	23,449	24,042	1,902	1,930	21,546	22,112	84,197	85,761	29,599	30,420
Unemployed .....	1,638	1,469	35	41	1,604	1,428	5,056	4,647	1,669	1,570
Unemployment rate .....	6.5	5.8	1.8	2.1	6.9	6.1	5.7	5.1	5.3	4.9
Not in labor force .....	15,193	15,118	821	783	14,372	14,335	45,922	45,768	17,025	17,089
<b>Men, 20 years and over</b>										
Civilian noninstitutional population .....	17,604	17,718	1,307	1,321	16,298	16,397	58,269	58,906	21,619	22,010
Civilian labor force .....	13,099	13,152	1,100	1,107	11,999	12,045	45,532	46,025	16,689	16,910
Percent of population .....	74.4	74.2	84.2	83.8	73.6	73.5	78.1	78.1	77.2	76.8
Employed .....	12,365	12,478	1,086	1,090	11,279	11,389	43,326	43,925	15,925	16,194
Unemployed .....	734	674	14	17	720	656	2,206	2,100	764	716
Unemployment rate .....	5.6	5.1	1.3	1.6	6.0	5.4	4.8	4.6	4.6	4.2
Not in labor force .....	4,505	4,566	206	214	4,299	4,352	12,737	12,881	4,929	5,100
<b>Women, 20 years and over</b>										
Civilian noninstitutional population .....	19,443	19,656	1,219	1,209	18,224	18,447	66,387	66,914	22,549	22,978
Civilian labor force .....	10,364	10,680	701	731	9,663	9,949	38,155	38,956	12,485	12,945
Percent of population .....	53.3	54.3	57.5	60.5	53.0	53.9	57.5	58.2	55.4	56.3
Employed .....	9,780	10,156	689	719	9,092	9,437	36,252	37,207	11,882	12,362
Unemployed .....	584	524	12	12	571	512	1,903	1,749	602	583
Unemployment rate .....	5.6	4.9	1.8	1.7	5.9	5.1	5.0	4.5	4.8	4.5
Not in labor force .....	9,079	8,976	518	478	8,561	8,498	28,232	27,958	10,064	10,033
<b>Both sexes, 16 to 19 years</b>										
Civilian noninstitutional population .....	3,233	3,255	232	225	3,000	3,031	10,520	10,355	4,124	4,090
Civilian labor force .....	1,624	1,678	136	133	1,488	1,545	5,566	5,426	2,093	2,135
Percent of population .....	50.2	51.6	58.6	59.2	49.6	51.0	52.9	52.4	50.8	52.2
Employed .....	1,304	1,407	127	121	1,176	1,286	4,620	4,628	1,791	1,864
Unemployed .....	320	271	8	12	312	259	947	798	302	271
Unemployment rate .....	19.7	16.1	6.2	8.7	21.0	16.8	17.0	14.7	14.4	12.7
Not in labor force .....	1,609	1,577	96	92	1,512	1,485	4,953	4,929	2,031	1,955
<b>White</b>										
Civilian noninstitutional population .....	36,110	36,379	2,694	2,685	33,416	33,695	112,684	113,167	44,764	45,444
Civilian labor force .....	22,612	23,051	1,898	1,926	20,714	21,125	74,615	75,428	29,087	29,831
Percent of population .....	62.6	63.4	70.5	71.7	62.0	62.7	66.2	66.7	65.0	65.6
Employed .....	21,301	21,839	1,867	1,889	19,434	19,950	71,074	72,194	27,665	28,461
Unemployed .....	1,311	1,212	31	37	1,280	1,175	3,541	3,234	1,422	1,370
Unemployment rate .....	5.8	5.3	1.6	1.9	6.2	5.6	4.7	4.3	4.9	4.6
Not in labor force .....	13,498	13,329	796	759	12,702	12,570	38,068	37,739	15,677	15,613
<b>Black</b>										
Civilian noninstitutional population .....	3,432	3,543	53	56	3,379	3,487	17,651	17,900	2,829	2,913
Civilian labor force .....	2,047	2,050	34	36	2,013	2,014	11,419	11,609	1,736	1,733
Percent of population .....	59.6	57.9	( <sup>1</sup> )	( <sup>1</sup> )	59.6	57.8	64.7	64.9	61.4	59.5
Employed .....	1,779	1,832	30	34	1,749	1,798	10,370	10,347	1,545	1,564
Unemployed .....	267	219	3	3	264	216	1,349	1,262	191	168
Unemployment rate .....	13.1	10.7	( <sup>1</sup> )	( <sup>1</sup> )	13.1	10.7	11.8	10.9	11.0	9.7
Not in labor force .....	1,386	1,493	20	20	1,366	1,473	6,232	6,291	1,093	1,181
<b>Hispanic origin</b>										
Civilian noninstitutional population .....	948	1,031	43	35	905	996	12,100	12,336	943	1,160
Civilian labor force .....	613	713	29	23	583	689	8,073	8,366	650	755
Percent of population .....	64.7	69.1	( <sup>1</sup> )	( <sup>1</sup> )	64.5	69.2	66.7	67.8	69.0	65.1
Employed .....	546	635	30	18	516	617	7,402	7,744	596	687
Unemployed .....	67	78	-	6	67	72	670	622	54	69
Unemployment rate .....	10.9	10.9	( <sup>1</sup> )	( <sup>1</sup> )	11.6	10.5	8.3	7.4	8.3	9.1
Not in labor force .....	335	318	14	12	321	306	4,028	3,970	292	404

<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 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988	IV 1987	IV 1988
<b>TOTAL</b>												
Civilian noninstitutional population .....	27,472	27,570	155,995	157,683	18,333	18,343	124,854	126,281	9,139	9,227	31,141	31,402
Civilian labor force .....	15,710	16,016	104,811	106,381	10,402	10,649	85,031	86,238	5,307	5,367	19,780	20,143
Percent of population .....	57.2	58.1	67.2	67.5	56.7	58.1	68.1	68.3	58.1	58.2	63.5	64.1
Employed .....	14,067	14,500	99,729	101,680	9,250	9,582	81,097	82,557	4,817	4,918	18,632	19,123
Unemployed .....	1,643	1,515	5,082	4,701	1,153	1,067	3,934	3,681	490	449	1,148	1,020
Unemployment rate .....	10.5	9.5	4.8	4.4	11.1	10.0	4.6	4.3	9.2	8.4	5.8	5.1
Men, 20 years and over .....	9.0	8.5	4.1	3.9	9.8	9.1	3.9	3.7	7.5	7.2	5.1	4.6
Women, 20 years and over .....	9.5	8.3	4.3	3.9	10.0	8.7	4.1	3.8	8.4	7.5	4.9	4.2
Both sexes, 16 to 19 years .....	27.6	24.7	14.5	12.5	27.2	25.5	13.8	12.0	28.4	23.2	17.4	14.3
Men .....	26.4	23.8	15.7	14.0	25.5	24.4	15.1	13.8	28.0	22.6	18.1	14.8
Women .....	29.0	25.9	13.3	10.9	29.1	26.8	12.6	10.2	28.8	24.0	16.7	13.8
Not in labor force .....	11,762	11,554	51,184	51,302	7,931	7,695	39,824	40,043	3,832	3,860	11,361	11,259
<b>White</b>												
Civilian noninstitutional population .....	16,587	16,570	140,861	142,041	9,847	9,828	111,491	112,403	6,740	6,742	29,370	29,638
Civilian labor force .....	9,604	9,842	94,098	95,417	5,657	5,830	75,433	76,379	3,947	4,012	18,665	19,038
Percent of population .....	57.9	59.4	66.8	67.2	57.5	59.3	67.7	68.0	58.6	59.5	63.6	64.2
Employed .....	8,861	9,131	89,878	91,523	5,179	5,388	72,259	73,428	3,682	3,743	17,619	18,095
Unemployed .....	743	710	4,220	3,894	478	442	3,174	2,950	265	269	1,046	943
Unemployment rate .....	7.7	7.2	4.5	4.1	8.5	7.6	4.2	3.9	6.7	6.7	5.6	5.0
Men, 20 years and over .....	7.0	6.5	3.9	3.7	8.0	7.2	3.6	3.4	5.6	5.5	5.0	4.5
Women, 20 years and over .....	6.7	6.3	3.9	3.5	7.4	6.4	3.7	3.4	5.6	6.1	4.7	4.0
Both sexes, 16 to 19 years .....	19.7	18.8	13.2	11.5	18.2	17.9	12.4	10.8	22.0	20.3	16.3	14.0
Men .....	18.4	18.3	14.5	12.8	16.0	17.1	13.8	12.3	21.6	20.2	17.2	14.4
Women .....	21.6	19.5	11.9	10.2	20.9	18.9	11.1	9.3	22.6	20.4	15.3	13.5
Not in labor force .....	6,983	6,728	46,763	46,624	4,190	3,998	36,058	36,025	2,793	2,730	10,705	10,599
<b>Black</b>												
Civilian noninstitutional population .....	9,848	9,826	10,633	10,987	7,752	7,640	9,296	9,630	2,096	2,187	1,336	1,357
Civilian labor force .....	5,519	5,527	7,636	7,814	4,328	4,330	6,780	6,961	1,191	1,198	856	853
Percent of population .....	56.0	56.2	71.8	71.1	55.8	56.7	72.9	72.3	56.8	54.8	64.0	62.9
Employed .....	4,693	4,773	6,922	7,138	3,688	3,735	6,148	6,345	1,005	1,038	774	793
Unemployed .....	825	754	715	676	640	595	633	617	185	159	82	59
Unemployment rate .....	15.0	13.6	9.4	8.6	14.8	13.7	9.3	8.9	15.6	13.3	9.6	7.0
Men, 20 years and over .....	12.9	12.4	7.5	7.1	13.0	12.5	7.6	7.3	12.3	12.1	6.3	5.1
Women, 20 years and over .....	13.4	11.8	8.5	8.1	13.1	11.9	8.5	8.2	14.7	11.8	8.5	6.8
Both sexes, 16 to 19 years .....	40.8	35.5	28.0	24.6	39.2	35.8	26.6	25.1	46.7	34.2	39.0	( <sup>1</sup> )
Men .....	42.7	34.6	27.4	29.3	40.5	35.5	26.2	29.7	51.6	( <sup>1</sup> )	39.1	( <sup>1</sup> )
Women .....	39.0	36.5	28.7	19.3	38.0	36.2	27.2	19.6	42.9	( <sup>1</sup> )	38.9	( <sup>1</sup> )
Not in labor force .....	4,329	4,299	2,996	3,173	3,424	3,310	2,516	2,669	905	989	481	504
<b>Hispanic origin</b>												
Civilian noninstitutional population .....	4,471	4,548	8,571	8,947	4,124	4,184	7,971	8,281	348	364	600	667
Civilian labor force .....	2,602	2,778	6,121	6,343	2,394	2,540	5,716	5,869	208	239	405	474
Percent of population .....	58.2	61.1	71.4	70.9	58.1	60.7	71.7	70.9	59.8	65.6	67.4	71.1
Employed .....	2,332	2,536	5,667	5,894	2,149	2,320	5,303	5,475	183	216	363	419
Unemployed .....	270	242	454	448	245	219	413	394	26	23	42	55
Unemployment rate .....	10.4	8.7	7.4	7.1	10.2	8.6	7.2	6.7	12.3	9.7	10.3	11.6
Men, 20 years and over .....	9.5	7.7	6.5	5.6	9.6	7.8	6.4	5.2	8.2	7.3	8.8	9.6
Women, 20 years and over .....	9.4	7.6	6.1	6.9	9.1	7.6	6.0	6.7	12.9	8.0	7.7	9.2
Both sexes, 16 to 19 years .....	19.9	20.8	22.6	20.6	18.6	19.1	21.6	19.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	16.5	21.2	19.2	21.7	13.6	19.9	17.7	20.2	41.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	24.8	20.1	26.8	19.3	25.2	17.8	26.5	17.7	18.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	1,869	1,769	2,450	2,604	1,730	1,644	2,255	2,412	140	126	195	193

Data not shown where base is less than 60,000.  
NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and

Hispanics are included in both the white and black population groups. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

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

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	(1)	(1)	1,417	3,503	(1)	(1)	(1)
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	(1)	(1)	1,410	3,458	(1)	(1)	(1)
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	1,762	4,664	1,447	3,502	905	(1)	(1)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,835	4,914	1,485	3,665	996	(1)	(1)
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	(1)	(1)
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,906	5,212	1,509	4,066	2,213	(1)	(1)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	(1)	(1)
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	(1)	(1)
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	(1)	(1)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	(1)	(1)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	(1)	(1)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,605	6,667	1,800	5,181	1,863	(1)	(1)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	(1)	(1)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,635	6,751	1,888	5,357	1,928	(1)	(1)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,727	7,015	1,956	5,547	2,302	(1)	(1)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,699	2,420	(1)	(1)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	(1)	(1)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	(1)	(1)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,389	6,497	2,209	1,250	3,819
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,980	7,770	2,481	6,765	2,191	1,415	4,232
1959 <sup>2</sup>	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,597	9,648	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,753	17,930	6,283	23,053	2,899	3,893	9,901
1987	102,310	85,295	24,764	721	4,998	19,065	77,525	5,385	5,872	18,509	6,549	24,196	2,943	3,963	10,109
1988 <sup>P</sup>	106,037	88,648	25,564	733	5,292	19,540	80,473	5,581	6,156	19,205	6,678	25,463	2,971	4,052	10,366
Monthly data, seasonally adjusted															
1987:															
December	104,001	86,794	25,201	735	5,118	19,348	78,800	5,481	5,984	18,784	6,619	24,725	2,980	4,001	10,226
1988:															
January	104,262	87,044	25,180	728	5,083	19,369	79,082	5,499	6,010	18,927	6,633	24,795	2,973	4,006	10,239
February	104,729	87,475	25,271	731	5,150	19,390	79,458	5,513	6,035	19,045	6,636	24,975	2,972	4,014	10,268
March	105,020	87,700	25,330	733	5,192	19,405	79,690	5,530	6,061	19,050	6,651	25,078	2,970	4,031	10,319
April	105,281	87,973	25,435	737	5,238	19,460	79,846	5,543	6,089	19,093	6,650	25,163	2,963	4,041	10,304
May	105,489	88,139	25,466	739	5,237	19,490	80,023	5,556	6,115	19,130	6,656	25,216	2,957	4,050	10,343
June	106,057	88,678	25,592	740	5,308	19,544	80,465	5,582	6,148	19,205	6,679	25,472	2,951	4,049	10,379
July	106,271	88,941	25,663	740	5,330	19,593	80,608	5,598	6,174	19,261	6,684	25,561	2,951	4,059	10,320
August	106,425	89,066	25,639	739	5,340	19,560	80,786	5,605	6,192	19,279	6,689	25,662	2,956	4,070	10,333
September	106,737	89,205	25,648	734	5,365	19,549	81,089	5,618	6,219	19,291	6,692	25,737	2,989	4,086	10,457
October	106,973	89,481	25,743	729	5,366	19,648	81,230	5,631	6,246	19,327	6,708	25,826	2,989	4,070	10,433
November	107,377	89,817	25,844	721	5,405	19,718	81,533	5,648	6,276	19,387	6,7				

**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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	
<b>Total</b> .....		104,548	104,809	107,850	108,271	108,507						-
<b>Total private</b> .....		87,034	87,318	90,124	90,348	90,636	70,523	70,767	72,963	73,140	73,336	
<b>Mining</b> .....		745	740	736	730	728	541	535	533	528	525	
Metal mining .....	10	44.8	44.8	51.2	51.7	-	34.2	34.2	40.0	40.3	-	
Iron ores .....	101	6.6	6.4	7.3	7.2	-	5.1	4.9	6.0	5.9	-	
Copper ores .....	102	14.2	14.2	14.3	14.4	-	11.3	11.3	11.1	11.2	-	
Coal mining .....	11,12	163.1	161.9	152.9	152.3	-	134.1	132.4	125.2	125.1	-	
Bituminous coal and lignite mining .....	12	161.2	160.0	150.9	150.2	-	132.4	130.8	123.5	123.3	-	
Oil and gas extraction .....	13	424.3	425.4	415.9	411.7	410.7	284.9	285.5	279.0	275.1		
Crude petroleum, natural gas, and natural gas liquids ...	131,2	203.9	204.8	196.8	196.7	-	101.7	102.1	98.8	98.5	-	
Oil and gas field services .....	138	220.4	220.6	219.1	215.0	-	183.2	183.4	180.2	176.6	-	
Nonmetallic minerals, except fuels .....	14	112.6	108.1	116.1	114.4	-	87.3	82.7	89.1	87.5	-	
Crushed and broken stone .....	142	41.3	39.5	42.5	42.0	-	32.8	30.9	33.6	33.0	-	
Sand and gravel .....	144	34.8	32.8	36.1	35.3	-	-	-	-	-	-	
Chemical and fertilizer minerals .....	147	17.1	17.1	17.9	17.9	-	-	-	-	-	-	
<b>Construction</b> .....		5,227	5,063	5,645	5,551	5,364	4,106	3,942	4,457	4,361	4,169	
General building contractors .....	15	1,385.1	1,353.5	1,455.6	1,443.3	1,415.3	1,018.2	987.5	1,075.7	1,061.3	-	
Residential building construction .....	152	736.4	717.2	786.8	777.9	-	526.9	510.0	570.5	559.7	-	
Operative builders .....	153	54.0	53.4	52.6	52.1	-	25.3	24.7	23.6	23.1	-	
Nonresidential building construction .....	154	594.7	582.9	616.2	613.3	-	466.0	452.8	481.6	478.5	-	
Heavy construction contractors .....	16	806.4	742.7	849.2	812.4	-	680.0	616.7	719.7	684.4	-	
Highway and street construction .....	161	294.0	250.9	319.9	297.8	-	246.9	203.7	269.7	248.1	-	
Heavy construction, except highway .....	162	512.4	491.8	529.3	514.6	-	433.1	413.0	450.0	436.3	-	
Special trade contractors .....	17	3,035.0	2,966.4	3,339.8	3,295.1	-	2,408.2	2,338.2	2,661.7	2,615.5	-	
Plumbing, heating, and air conditioning .....	171	653.5	649.7	702.9	697.0	-	485.3	481.9	525.8	519.1	-	
Painting, paper hanging, and decorating .....	172	179.3	172.7	192.1	186.4	-	150.9	143.8	162.9	157.3	-	
Electrical work .....	173	559.2	560.9	603.4	602.0	-	437.8	438.1	472.6	470.0	-	
Masonry, stonework, and plastering .....	174	499.6	488.8	565.3	562.1	-	428.4	417.8	487.5	483.9	-	
Carpentering and flooring .....	175	188.3	184.2	196.1	193.2	-	144.7	140.7	151.4	148.0	-	
Roofing and sheet metal work .....	176	220.2	209.7	234.1	230.8	-	178.5	167.8	188.5	185.1	-	
<b>Manufacturing</b> .....		19,379	19,370	19,760	19,802	19,780	13,256	13,239	13,522	13,551	13,516	
<b>Durable goods</b> .....		11,400	11,415	11,642	11,684	11,697	7,609	7,615	7,781	7,815	7,820	
Lumber and wood products .....	24	751.0	743.2	771.8	768.6	761.2	627.8	620.3	643.0	639.5	632.7	
Logging camps and logging contractors .....	241	89.3	85.0	95.8	94.3	-	74.7	70.9	80.3	78.8	-	
Sawmills and planing mills .....	242	203.9	203.7	205.3	204.7	-	180.2	179.4	180.1	179.6	-	
Sawmills and planing mills, general .....	2421	165.8	165.4	167.6	167.0	-	146.5	145.7	147.0	146.4	-	
Hardwood dimension and flooring .....	2426	34.7	34.8	34.2	34.2	-	30.5	30.7	30.1	30.1	-	
Millwork, plywood, and structural members .....	243	260.7	260.3	265.6	266.1	-	215.1	215.1	217.6	217.5	-	
Millwork .....	2431	100.0	99.8	102.9	103.0	-	80.5	80.5	82.8	82.7	-	
Wood kitchen cabinets .....	2434	70.9	71.0	70.2	70.7	-	57.2	57.4	55.9	56.3	-	
Hardwood veneer and plywood .....	2435	24.1	24.4	24.8	24.8	-	21.2	21.4	21.5	21.5	-	
Softwood veneer and plywood .....	2436	37.5	37.6	38.1	38.0	-	34.1	34.2	34.3	34.1	-	
Wood containers .....	244	41.4	41.2	43.9	43.2	-	35.0	34.8	37.2	36.7	-	
Wood buildings and mobile homes .....	245	72.0	69.8	75.3	75.1	-	54.4	52.3	57.5	57.3	-	
Mobile homes .....	2451	47.8	46.1	51.8	51.3	-	38.7	37.1	42.4	42.0	-	
Miscellaneous wood products .....	249	83.7	83.2	85.9	85.2	-	68.4	67.8	70.3	69.6	-	

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	536.7	538.8	544.3	546.4	547.7	430.2	432.4	436.3	438.6	440.1
Household furniture .....	251	319.2	321.7	320.9	323.3	-	270.2	272.6	271.9	274.3	-
Wood household furniture .....	2511	143.1	144.6	144.5	145.8	-	125.2	126.6	126.4	127.5	-
Upholstered household furniture .....	2512	102.7	103.1	104.3	104.6	-	86.4	86.8	87.8	88.1	-
Metal household furniture .....	2514	27.8	28.9	26.4	27.8	-	22.7	23.5	21.3	22.6	-
Mattresses and bedsprings .....	2515	28.9	29.1	30.5	30.1	-	21.9	22.2	23.6	23.2	-
Office furniture .....	252	69.2	69.5	68.2	68.9	-	52.4	52.7	51.4	51.6	-
Public building and related furniture .....	253	29.7	29.6	31.3	31.4	-	22.7	22.6	24.6	24.8	-
Partitions and fixtures .....	254	77.2	76.4	79.4	78.7	-	56.1	55.6	58.1	57.5	-
Miscellaneous furniture and fixtures .....	259	41.4	41.6	44.5	44.7	-	28.8	28.9	30.3	30.4	-
Stone, clay, and glass products .....	32	589.3	580.9	596.5	594.9	587.4	457.7	450.8	465.8	464.3	456.6
Flat glass .....	321	14.8	14.7	15.1	15.4	-	11.5	11.5	12.0	12.3	-
Glass and glassware, pressed or blown .....	322	86.6	85.4	85.9	85.3	-	74.6	73.6	74.3	73.9	-
Glass containers .....	3221	43.7	42.9	43.3	42.8	-	39.4	38.8	39.4	38.9	-
Pressed and blown glass, nec .....	3229	42.9	42.5	42.6	42.5	-	35.2	34.8	34.9	35.0	-
Products of purchased glass .....	323	51.6	51.5	52.7	53.0	-	37.3	37.4	40.0	40.6	-
Cement, hydraulic .....	324	20.4	20.4	20.2	20.2	-	15.6	15.5	15.4	15.4	-
Structural clay products .....	325	38.5	38.7	39.0	39.0	-	30.3	30.4	30.8	30.7	-
Pottery and related products .....	326	37.0	37.0	38.5	38.6	-	29.4	29.6	30.8	30.9	-
Concrete, gypsum, and plaster products .....	327	215.5	207.9	216.7	214.4	-	167.5	160.5	167.0	164.7	-
Concrete block and brick .....	3271	20.3	20.0	20.8	20.7	-	13.4	13.2	13.6	13.4	-
Concrete products, nec .....	3272	72.5	70.8	73.8	73.4	-	55.6	54.0	56.1	55.9	-
Ready-mixed concrete .....	3273	103.3	97.9	103.1	101.2	-	83.4	78.3	82.5	80.6	-
Misc. nonmetallic mineral products .....	329	112.2	112.6	114.5	115.1	-	81.5	82.2	84.6	85.0	-
Abrasive products .....	3291	21.7	21.7	22.1	22.3	-	14.9	15.1	15.5	15.6	-
Asbestos products .....	3292	8.7	8.8	8.6	8.6	-	6.7	6.7	6.4	6.4	-
Mineral wool .....	3296	24.9	24.9	24.8	25.0	-	-	-	-	-	-
Primary metal industries .....	33	766.4	769.3	790.5	794.2	796.6	582.6	585.0	606.2	609.0	612.4
Blast furnaces and basic steel products .....	331	277.3	279.2	279.6	281.1	281.7	212.2	213.9	216.0	217.4	218.4
Blast furnaces and steel mills .....	3312	209.9	211.2	210.5	211.9	-	161.9	162.9	164.0	165.3	-
Steel pipe and tubes .....	3317	24.2	24.6	25.2	25.1	-	18.2	18.5	19.1	19.1	-
Iron and steel foundries .....	332	133.7	134.9	144.5	145.7	-	106.1	107.3	116.7	117.9	-
Gray iron foundries .....	3321	83.2	83.7	87.7	88.2	-	67.7	68.2	72.2	72.6	-
Malleable iron foundries .....	3322	8.9	9.0	9.4	9.5	-	6.6	6.7	7.2	7.3	-
Steel foundries, nec .....	3325	27.6	28.0	32.7	33.2	-	20.9	21.3	25.7	26.3	-
Primary nonferrous metals .....	333	40.7	40.6	42.5	42.5	-	29.6	29.7	31.6	31.4	-
Primary aluminum .....	3334	21.6	21.6	23.0	22.8	-	15.9	15.9	17.5	17.4	-
Nonferrous rolling and drawing .....	335	183.4	182.8	186.7	187.0	-	131.8	131.0	134.4	134.3	-
Copper rolling and drawing .....	3351	23.7	24.0	24.5	24.5	-	18.4	18.7	18.8	18.7	-
Aluminum sheet, plate, and foil .....	3353	27.9	28.1	28.0	27.9	-	19.7	19.8	19.2	19.0	-
Nonferrous wire drawing and insulating .....	3357	79.3	78.6	81.7	81.9	-	56.9	56.1	59.7	59.8	-
Nonferrous foundries .....	336	88.2	88.3	92.2	92.1	-	71.0	70.7	74.2	74.1	-
Aluminum foundries .....	3361	54.4	54.5	56.1	55.9	-	44.6	44.4	45.8	45.7	-
Fabricated metal products .....	34	1,437.1	1,438.7	1,477.7	1,482.3	1,484.6	1,070.1	1,071.8	1,104.8	1,108.6	1,108.3
Metal cans and shipping containers .....	341	55.5	54.5	53.7	54.2	-	47.1	46.2	46.2	46.7	-
Metal cans .....	3411	44.7	43.9	42.7	43.2	-	38.4	37.7	37.1	37.6	-
Cutlery, hand tools, and hardware .....	342	135.4	136.1	133.0	133.1	-	100.4	101.2	98.6	98.7	-
Hand and edge tools, and hand saws and blades .....	3423,5	46.8	46.9	46.0	45.9	-	34.4	34.6	33.4	33.5	-
Hardware, nec .....	3429	77.7	78.3	75.6	75.8	-	58.6	59.3	57.3	57.3	-
Plumbing and heating, except electric .....	343	62.7	63.0	65.0	65.8	-	45.1	45.3	47.5	48.3	-
Plumbing fittings and brass goods .....	3432	25.3	25.6	25.9	26.7	-	18.5	18.7	19.0	19.7	-
Heating equipment, except electric .....	3433	25.6	25.5	26.9	27.1	-	17.5	17.4	19.1	19.3	-
Fabricated structural metal products .....	344	436.4	434.1	449.6	449.1	-	312.9	311.2	324.9	323.6	-
Fabricated structural metal .....	3441	78.7	78.6	80.6	80.4	-	56.5	56.3	58.4	58.6	-
Metal doors, sash, and trim .....	3442	94.1	92.3	93.2	92.5	-	69.7	68.2	68.5	67.2	-
Fabricated plate work (boiler shops) .....	3443	88.0	88.1	95.1	95.9	-	57.8	58.1	64.5	65.3	-
Sheet metal work .....	3444	112.1	111.8	115.2	114.5	-	84.7	84.3	86.7	85.7	-
Architectural metal work .....	3446	31.0	30.7	32.5	32.9	-	22.7	22.5	24.3	24.5	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Screw machine products, bolts, etc .....	345	94.3	94.8	98.7	98.9		72.3	72.7	75.7	75.9	
Screw machine products .....	3451	47.6	48.0	50.9	51.2		39.1	39.3	41.6	41.8	
Bolts, nuts, rivets, and washers .....	3452	46.7	46.8	47.8	47.7		33.2	33.4	34.1	34.1	
Metal forgings and stampings .....	346	236.8	237.2	241.8	244.2		189.3	189.4	192.8	194.8	
Iron and steel forgings .....	3462	29.7	29.9	30.6	31.1		22.8	23.0	23.4	23.9	
Automotive stampings .....	3465	97.8	98.0	98.0	99.5		83.5	83.6	83.1	84.5	
Metal stampings, nec .....	3469	98.0	97.9	101.8	102.3		74.8	74.5	77.9	78.0	
Metal services, nec .....	347	115.9	116.3	122.0	123.2		93.2	93.7	98.0	99.1	-
Plating and polishing .....	3471	75.2	75.6	79.6	80.1		60.9	61.2	64.3	64.8	
Metal coating and allied services .....	3479	40.7	40.7	42.4	43.1		32.3	32.5	33.7	34.3	-
Ordnance and accessories, nec .....	348	78.3	78.2	77.6	76.7		47.7	47.7	48.9	48.9	
Ammunition, except for small arms, nec .....	3483	43.8	43.5	42.4	41.6		23.9	23.7	23.7	24.0	
Misc. fabricated metal products .....	349	221.8	224.5	236.3	237.1		162.1	164.4	172.2	172.6	
Valves and pipe fittings .....	3494	80.9	83.0	89.3	90.0		54.8	56.2	60.5	60.8	
Misc. fabricated wire products .....	3496	54.4	55.0	56.2	56.3		41.5	42.4	43.1	43.4	
Machinery, except electrical .....	35	2,058.3	2,077.5	2,168.4	2,181.4	2,197.2	1,227.7	1,240.6	1,296.8	1,308.0	1,319.2
Engines and turbines .....	351	89.0	89.0	89.0	89.6	-	58.0	59.1	58.8	59.2	-
Turbines and turbine generator sets .....	3511	24.2	23.6	23.1	23.3		13.3	13.7	13.6	13.7	-
Internal combustion engines, nec .....	3519	64.8	65.4	65.9	66.3		44.7	45.4	45.2	45.5	-
Farm and garden machinery .....	352	97.4	99.6	104.4	105.2		66.9	69.0	74.9	76.0	
Farm machinery and equipment .....	3523	70.5	71.2	76.4	76.2		46.3	47.0	53.0	53.3	-
Construction and related machinery .....	353	221.1	223.2	235.6	236.2		133.3	134.8	144.7	145.3	
Construction machinery .....	3531	80.5	80.8	84.5	84.8		49.3	49.7	52.8	52.9	
Mining machinery .....	3532	17.7	17.9	18.4	18.3		10.7	10.9	11.2	11.2	
Oil field machinery .....	3533	40.7	41.0	44.8	44.8		24.2	24.4	27.0	27.1	
Conveyors and conveying equipment .....	3535	32.8	33.3	34.1	34.0		17.3	17.6	18.3	18.3	
Industrial trucks and tractors .....	3537	25.0	25.4	26.5	26.8		17.5	17.7	18.4	18.6	
Metalworking machinery .....	354	289.4	291.0	305.6	308.4		207.1	208.3	220.1	223.1	
Machine tools, metal cutting types .....	3541	45.0	45.0	47.3	47.7		28.5	28.5	30.3	30.9	
Machine tools, metal forming types .....	3542	17.0	17.1	17.8	18.0		10.8	10.9	11.5	11.7	
Special dies, tools, jigs, and fixtures .....	3544	137.5	138.3	144.6	146.1		105.0	105.6	111.1	112.7	-
Machine tool accessories .....	3545	52.8	53.2	56.9	57.3	-	37.6	38.0	40.8	41.0	
Power driven hand tools .....	3546	20.0	20.1	20.5	20.8		14.7	14.8	14.8	15.2	
Special industry machinery .....	355	164.8	166.1	175.7	177.4		99.1	100.0	105.8	106.8	
Food products machinery .....	3551	38.7	39.0	40.9	41.1		23.5	23.6	24.7	24.9	
Textile machinery .....	3552	20.5	20.6	21.2	21.2		13.7	13.9	14.0	14.0	
Printing trades machinery .....	3555	27.2	27.3	29.2	29.5		16.3	16.3	17.6	17.8	
General industrial machinery .....	356	249.2	250.7	260.9	262.9		159.8	161.4	169.0	170.6	
Pumps and pumping equipment .....	3561	44.1	44.5	46.3	46.6		25.3	25.6	26.8	27.1	
Ball and roller bearings .....	3562	41.2	41.5	42.8	43.3	-	32.0	32.3	33.2	33.9	
Air and gas compressors .....	3563	20.3	20.4	20.7	21.1	-	11.8	12.0	12.2	12.3	
Blowers and fans .....	3564	30.1	30.2	30.7	30.7		19.4	19.5	20.0	20.1	
Speed changers, drives, and gears .....	3566	19.4	19.5	20.7	20.9		13.2	13.4	14.3	14.4	
Power transmission equipment, nec .....	3568	16.9	17.0	17.9	17.9		11.3	11.3	12.2	12.2	
Office and computing machines .....	357	493.7	501.1	520.4	522.9		167.4	169.3	167.8	169.6	
Electronic computing equipment .....	3573	440.3	447.3	465.9	467.8		141.7	143.3	142.8	143.7	
Refrigeration and service machinery .....	358	177.3	177.5	181.9	182.7		127.4	127.5	131.4	132.0	
Refrigeration and heating equipment .....	3585	126.1	125.7	130.3	131.2		93.1	92.8	96.6	97.4	
Misc. machinery, except electrical .....	359	276.4	279.3	294.9	296.1	-	208.7	211.2	224.3	225.4	
Carburetors, pistons, rings, and valves .....	3592	31.3	31.7	32.4	32.1		24.9	25.2	25.7	25.4	-
Machinery, except electrical, nec .....	3599	245.1	247.6	262.5	264.0		183.8	186.0	198.6	200.0	
Electrical and electronic equipment .....	36	2,108.7	2,117.8	2,134.8	2,139.4	2,138.6	1,243.9	1,249.5	1,264.7	1,269.5	1,267.8
Electric distributing equipment .....	361	108.6	109.5	112.0	112.9	-	78.6	79.2	79.8	80.3	-
Transformers .....	3612	49.5	49.7	50.6	51.1	-	36.1	36.2	36.6	37.0	-
Switchgear and switchboard apparatus .....	3613	59.1	59.8	61.4	61.8		42.5	43.0	43.2	43.3	-
Electrical industrial apparatus .....	362	183.6	184.3	188.2	188.7		126.4	126.7	130.8	131.0	
Motors and generators .....	3621	87.8	88.2	89.9	90.0		67.6	68.0	70.5	70.5	
Industrial controls .....	3622	60.9	61.1	62.4	62.9	-	35.0	35.1	36.5	36.6	
Household appliances .....	363	139.2	140.3	139.9	139.8		111.0	111.9	113.6	113.8	
Household refrigerators and freezers .....	3632	29.3	30.5	28.9	29.1		23.8	24.8	23.7	24.0	
Household laundry equipment .....	3633	22.5	22.5	22.8	23.1		18.0	18.0	18.6	18.9	-
Electric housewares and fans .....	3634	36.3	35.7	38.2	37.9		28.1	27.5	30.6	30.4	

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>
<b>Durable goods—Continued</b>											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment .....	364	194.1	194.7	194.8	195.8	-	141.7	141.9	141.1	141.9	-
Electric lamps .....	3641	25.5	25.5	25.1	25.1	-	21.7	21.8	21.3	21.2	-
Current-carrying wiring devices .....	3643	75.5	75.8	75.2	75.4	-	50.0	50.2	49.0	49.1	-
Noncurrent-carrying wiring devices .....	3644	15.5	15.7	16.0	16.3	-	11.3	11.5	11.9	12.2	-
Residential lighting fixtures .....	3645	28.2	28.2	28.8	29.0	-	21.6	21.4	22.0	22.2	-
Radio and TV receiving equipment .....	365	84.2	83.3	86.6	87.6	-	58.6	57.4	60.9	61.7	-
Radio and TV receiving sets .....	3651	63.5	63.2	65.1	66.0	-	43.4	42.6	44.4	45.0	-
Communication equipment .....	366	605.7	607.0	589.2	587.3	-	252.2	253.4	246.8	245.7	-
Telephone and telegraph apparatus .....	3661	116.9	117.3	116.3	115.0	-	66.1	67.1	69.5	68.8	-
Radio and TV communication equipment .....	3662	488.8	489.7	472.9	472.3	-	186.1	186.3	177.3	176.9	-
Electronic components and accessories .....	367	642.2	646.9	667.9	669.8	-	368.2	371.3	380.4	382.4	-
Electronic tubes .....	3671-3	38.0	38.3	38.4	38.6	-	24.3	24.6	24.9	24.9	-
Semiconductors and related devices .....	3674	251.9	253.6	269.3	270.3	-	98.4	99.5	106.8	108.1	-
Electronic components, nec .....	3679	278.2	280.3	281.7	282.8	-	190.3	191.4	190.0	190.9	-
Misc. electrical equipment and supplies .....	369	151.1	151.8	156.2	157.5	-	107.2	107.7	111.3	112.7	-
Storage batteries .....	3691	29.1	29.2	31.3	31.5	-	22.8	22.8	23.9	24.0	-
Engine electrical equipment .....	3694	66.5	67.2	68.2	68.7	-	51.1	51.5	52.5	53.0	-
Transportation equipment .....	37	2,060.7	2,065.9	2,049.1	2,084.7	2,073.9	1,298.6	1,302.8	1,279.7	1,292.2	1,300.9
Motor vehicles and equipment .....	371	863.1	865.7	862.4	869.2	875.8	674.9	675.7	675.2	681.6	685.7
Motor vehicles and car bodies .....	3711	373.4	376.6	363.7	368.8	-	282.6	284.1	276.3	280.1	-
Truck and bus bodies .....	3713	42.9	42.8	42.8	43.0	-	33.6	33.3	33.5	34.0	-
Motor vehicle parts and accessories .....	3714	397.4	397.3	401.3	403.7	-	320.0	319.9	322.2	324.9	-
Truck trailers .....	3715	30.6	30.9	33.3	33.0	-	23.8	24.2	26.5	26.3	-
Aircraft and parts .....	372	707.2	707.3	696.5	700.8	-	353.0	352.1	337.8	342.6	-
Aircraft .....	3721	366.8	368.1	369.2	371.7	-	164.4	164.4	161.7	163.9	-
Aircraft engines and engine parts .....	3724	155.7	155.4	148.2	148.3	-	79.1	79.2	74.0	74.7	-
Aircraft equipment, nec .....	3728	184.7	183.8	179.1	180.8	-	109.5	108.5	102.1	104.0	-
Ship and boat building and repairing .....	373	191.8	194.0	188.8	191.9	-	144.9	147.5	138.9	139.3	-
Ship building and repairing .....	3731	128.2	129.9	122.5	126.6	-	93.3	95.6	84.3	85.7	-
Boat building and repairing .....	3732	63.8	64.1	66.1	65.3	-	51.6	51.9	54.6	53.6	-
Railroad equipment .....	374	27.6	28.5	34.2	35.5	-	19.5	20.5	25.5	28.7	-
Guided missiles, space vehicles, and parts .....	376	207.4	207.8	206.2	206.2	-	63.5	64.8	61.5	60.9	-
Guided missiles and space vehicles .....	3761	156.0	156.1	154.2	154.5	-	46.6	47.7	43.8	43.2	-
Miscellaneous transportation equipment .....	379	51.8	51.3	49.9	49.6	-	34.7	34.4	33.0	33.1	-
Travel trailers and campers .....	3792	19.9	19.6	19.9	20.1	-	15.3	15.1	15.5	15.7	-
Instruments and related products .....	38	704.3	705.3	718.2	720.6	725.0	385.8	386.8	397.8	399.7	403.1
Engineering and scientific instruments .....	381	84.0	84.5	86.9	87.3	-	38.7	39.0	40.4	40.7	-
Measuring and controlling devices .....	382	237.7	237.4	238.3	236.6	-	132.9	133.0	135.2	135.7	-
Environmental controls .....	3822	41.7	41.9	41.4	41.3	-	27.2	27.4	27.5	27.6	-
Process control instruments .....	3823	53.8	53.8	53.9	54.3	-	28.2	28.5	28.9	29.2	-
Instruments to measure electricity .....	3825	101.2	101.0	100.5	100.5	-	49.6	49.4	51.2	51.5	-
Optical instruments and lenses .....	383	33.9	34.0	35.6	35.7	-	16.7	16.8	18.4	18.4	-
Medical instruments and supplies .....	384	193.1	193.5	202.1	203.5	-	116.9	117.5	122.2	122.9	-
Surgical and medical instruments .....	3841	95.2	94.8	98.4	99.0	-	55.0	55.0	57.1	57.3	-
Surgical appliances and supplies .....	3842	83.8	84.5	88.6	89.3	-	53.9	54.4	56.6	57.1	-
Ophthalmic goods .....	385	37.6	37.7	38.0	37.9	-	25.9	26.0	26.2	26.0	-
Photographic equipment and supplies .....	386	106.2	106.5	108.3	108.4	-	45.8	45.8	47.1	47.5	-
Watches, clocks, and watchcases .....	387	11.8	11.7	11.0	11.2	-	8.9	8.7	8.3	8.5	-
Miscellaneous manufacturing .....	39	387.5	377.8	390.3	391.1	384.9	284.8	274.8	285.4	285.4	279.0
Jewelry, silverware, and plated ware .....	391	56.8	55.5	57.9	58.1	-	39.6	38.6	41.3	41.4	-
Jewelry, precious metal .....	3911	40.7	39.5	41.0	41.2	-	28.2	27.4	29.1	29.2	-
Musical instruments .....	393	13.0	12.8	12.6	12.5	-	10.9	10.7	10.5	10.4	-
Toys and sporting goods .....	394	103.9	100.2	106.8	105.8	-	79.0	75.0	79.7	78.5	-
Dolls, games, toys, and children's vehicles .....	3942.4	48.5	44.2	49.3	48.1	-	36.2	31.9	35.8	34.7	-
Sporting and athletic goods, nec .....	3949	55.4	56.0	57.5	57.7	-	42.8	43.1	43.9	43.8	-
Pens, pencils, office, and art supplies .....	395	32.8	32.5	33.0	33.0	-	22.8	22.7	23.3	23.1	-
Costume jewelry and notions .....	396	44.4	41.5	40.7	41.5	-	34.9	31.8	31.3	32.2	-
Costume jewelry .....	3961	23.8	22.3	21.2	22.2	-	18.9	17.3	16.1	17.0	-
Miscellaneous manufactures .....	399	136.6	135.3	139.3	140.2	-	97.6	96.0	99.3	99.8	-
Signs and advertising displays .....	3993	59.9	59.7	61.4	62.1	-	41.5	41.3	42.4	43.0	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Nondurable goods</b> .....		7,979	7,955	8,118	8,118	8,083	5,647	5,624	5,741	5,736	5,696
Food and kindred products .....	20	1,650.6	1,627.9	1,695.0	1,676.6	1,649.5	1,173.9	1,151.9	1,214.0	1,196.3	1,166.5
Meat products .....	201	398.3	398.1	404.1	408.5	-	338.3	338.2	342.5	346.4	-
Meat packing plants .....	2011	140.7	141.6	144.0	145.0	-	118.6	119.3	120.6	121.7	-
Sausages and other prepared meats .....	2013	81.1	81.1	81.7	82.5	-	60.0	59.9	60.4	60.6	-
Poultry dressing plants .....	2016	155.4	154.4	157.7	160.1	-	140.9	140.3	143.1	145.5	-
Dairy products .....	202	162.4	162.8	163.2	163.0	-	98.1	98.2	98.1	98.5	-
Cheese, natural and processed .....	2022	42.4	42.8	43.3	43.7	-	32.5	32.7	33.0	33.4	-
Fluid milk .....	2026	80.5	80.6	80.5	80.4	-	40.0	39.9	39.9	40.1	-
Preserved fruits and vegetables .....	203	238.1	221.6	267.1	246.5	-	195.2	179.0	221.9	201.2	-
Canned specialties .....	2032	24.5	24.2	25.4	25.2	-	17.3	16.9	18.6	18.2	-
Canned fruits and vegetables .....	2033	73.4	65.4	92.2	80.0	-	60.1	52.2	77.9	65.7	-
Frozen fruits and vegetables .....	2037	46.8	40.9	52.8	47.9	-	41.0	35.3	47.0	42.3	-
Grain mill products .....	204	129.4	130.1	135.4	134.9	-	89.7	90.6	95.6	94.4	-
Flour and other grain mill products .....	2041	23.4	23.5	24.3	24.7	-	16.1	16.3	17.1	17.1	-
Prepared feeds, nec .....	2048	42.8	43.3	44.7	44.5	-	27.1	27.7	28.6	28.2	-
Bakery products .....	205	211.5	210.9	209.1	209.6	-	130.4	130.3	128.2	129.1	-
Bread, cake, and related products .....	2051	163.6	162.8	161.2	161.9	-	92.3	92.0	91.2	92.4	-
Cookies and crackers .....	2052	47.9	48.1	47.9	47.7	-	38.1	38.3	37.0	36.7	-
Sugar and confectionery products .....	206	106.8	103.6	110.9	111.7	-	85.4	82.3	89.9	90.5	-
Cane and beet sugar .....	2061-3	27.0	24.9	26.0	25.1	-	21.6	19.6	21.4	20.5	-
Confectionery products .....	2065	60.1	58.8	65.1	66.8	-	50.4	49.1	55.0	56.6	-
Fats and oils .....	207	34.7	34.7	35.3	35.4	-	25.8	25.7	26.1	26.4	-
Beverages .....	208	200.1	199.6	198.0	197.2	-	84.2	84.0	84.2	83.4	-
Malt beverages .....	2082	39.6	39.7	39.3	39.1	-	24.7	24.9	23.4	23.5	-
Bottled and canned soft drinks .....	2086	117.1	117.0	115.5	115.0	-	37.6	37.7	38.2	37.5	-
Misc. food and kindred products .....	209	169.3	166.5	171.9	169.8	-	126.8	123.6	127.5	126.4	-
Tobacco manufactures .....	21	55.2	57.0	55.3	54.5	54.6	41.9	43.6	41.7	41.1	40.8
Cigarettes .....	211	38.6	39.0	38.1	38.3	-	28.7	29.0	28.1	28.4	-
Textile mill products .....	22	736.1	733.6	726.0	725.5	723.9	638.7	636.6	629.6	629.1	627.7
Weaving mills, cotton .....	221	102.5	102.4	96.8	96.3	-	92.6	92.5	87.5	87.1	-
Weaving mills, synthetics .....	222	90.2	90.9	94.2	95.0	-	80.4	81.1	83.4	84.3	-
Weaving and finishing mills, wool .....	223	18.8	19.1	19.5	19.7	-	15.4	15.6	15.8	16.0	-
Narrow fabric mills .....	224	23.6	23.7	25.2	25.4	-	20.4	20.5	21.7	21.8	-
Knitting mills .....	225	214.0	211.4	206.3	205.9	-	187.5	185.6	182.2	181.8	-
Women's hosiery, except socks .....	2251	35.1	35.0	32.5	32.2	-	31.3	31.2	29.4	29.2	-
Hosiery, nec .....	2252	35.4	35.4	34.9	34.6	-	31.7	31.8	31.5	31.3	-
Knit outerwear mills .....	2253	72.4	70.7	69.1	69.2	-	64.5	62.9	61.7	61.8	-
Knit underwear mills .....	2254	26.2	25.7	25.4	25.2	-	21.9	21.8	21.5	21.2	-
Circular knit fabric mills .....	2257	26.0	25.9	25.5	25.8	-	22.5	22.4	22.3	22.5	-
Textile finishing, except wool .....	226	61.0	60.7	58.5	58.7	-	51.3	50.9	48.5	48.5	-
Finishing plants, cotton .....	2261	24.5	24.4	24.0	24.1	-	20.7	20.7	19.9	19.9	-
Finishing plants, synthetics .....	2262	22.3	22.3	21.2	21.1	-	18.2	18.1	17.1	17.0	-
Floor covering mills .....	227	59.4	58.8	59.8	60.0	-	48.0	47.3	48.6	48.9	-
Yarn and thread mills .....	228	112.4	112.3	110.7	109.7	-	100.9	100.7	98.9	97.8	-
Yarn mills, except wool .....	2281	83.2	83.2	82.1	81.5	-	75.6	75.3	74.2	73.6	-
Throwing and winding mills .....	2282	15.3	15.3	15.1	14.9	-	13.5	13.5	13.3	13.1	-
Miscellaneous textile goods .....	229	54.2	54.3	55.0	54.8	-	42.2	42.4	43.0	42.9	-
Apparel and other textile products .....	23	1,117.8	1,105.9	1,098.2	1,101.0	1,093.8	940.3	929.2	926.6	930.2	922.6
Men's and boys' suits and coats .....	231	58.1	57.8	58.5	58.5	-	50.1	49.7	50.6	50.7	-
Men's and boys' furnishings .....	232	314.6	313.7	307.6	308.3	-	271.3	270.6	265.5	266.2	-
Men's and boys' shirts and nightwear .....	2321	86.4	86.2	83.2	83.2	-	73.9	73.6	71.0	70.8	-
Men's and boys' separate trousers .....	2327	50.6	50.8	49.7	49.7	-	44.2	44.4	43.2	43.3	-
Men's and boys' work clothing .....	2328	97.9	97.0	92.9	93.2	-	85.5	84.8	80.7	81.2	-
Women's and misses' outerwear .....	233	355.9	348.5	344.8	346.1	-	297.3	290.4	288.0	290.2	-
Women's and misses' blouses and waists .....	2331	46.2	45.5	44.5	44.3	-	38.5	37.9	36.7	36.5	-
Women's and misses' dresses .....	2335	82.3	81.6	82.1	81.5	-	68.9	68.2	68.0	67.7	-
Women's and misses' suits and coats .....	2337	42.6	38.4	42.7	43.3	-	35.3	31.3	35.2	36.0	-
Women's and misses' outerwear, nec .....	2339	184.8	183.0	175.5	177.0	-	154.6	153.0	148.1	150.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	72.7	71.8	70.6	70.8		59.7	59.1	58.8	59.0	
Women's and children's underwear .....	2341	59.4	58.6	57.6	57.8		50.7	50.1	49.6	49.9	
Brassieres and allied garments .....	2342	13.3	13.2	13.0	13.0		9.0	9.0	9.2	9.1	
Children's outerwear .....	236	59.6	59.7	54.9	55.3		50.0	50.0	46.1	46.6	
Children's dresses and blouses .....	2361	25.2	25.4	23.0	23.4		22.1	22.2	20.0	20.3	
Misc. apparel and accessories .....	238	42.5	41.8	43.0	42.8		35.2	34.6	35.6	35.6	
Misc. fabricated textile products .....	239	197.1	195.2	200.2	200.3		163.2	161.1	167.2	166.8	
Curtains and draperies .....	2391	26.0	25.8	25.1	24.6		21.2	20.9	20.7	20.2	
House furnishings, nec .....	2392	56.0	55.2	57.3	57.4		48.1	47.4	48.7	48.7	
Automotive and apparel trimmings .....	2396	40.6	40.0	40.5	40.6		34.0	33.3	34.8	34.6	
Paper and allied products .....	26	684.0	684.8	692.2	693.2	690.7	519.7	519.8	522.4	523.9	522.3
Paper and pulp mills .....	261,2,6	190.3	191.2	190.8	191.4	-	144.7	145.7	144.4	145.1	-
Paper mills, except building paper .....	262	166.6	167.4	168.0	168.6		126.0	126.9	126.5	127.3	
Paperboard mills .....	263	53.2	53.7	52.9	52.9		40.2	40.7	40.3	40.5	
Misc. converted paper products .....	264	234.3	233.4	238.1	237.4		173.5	172.1	174.1	173.9	
Paper coating and glazing .....	2641	58.6	58.8	58.9	59.3		36.7	36.5	35.0	35.3	
Envelopes .....	2642	27.1	27.3	27.3	27.4		21.1	21.3	21.0	21.2	
Bags, except textile bags .....	2643	53.1	53.4	54.3	54.4		42.0	42.4	42.6	42.9	
Paperboard containers and boxes .....	265	206.2	206.5	210.4	211.5		161.3	161.3	163.6	164.4	
Folding paperboard boxes .....	2651	45.5	45.8	46.0	46.5		36.2	36.3	36.7	37.3	
Corrugated and solid fiber boxes .....	2653	111.5	111.7	113.7	114.1		84.9	85.0	85.6	85.7	
Sanitary food containers .....	2654	22.5	22.5	23.3	23.1		19.3	19.4	19.6	19.4	
Printing and publishing .....	27	1,535.3	1,538.9	1,579.2	1,591.0	1,596.0	859.8	864.6	882.0	889.3	891.7
Newspapers .....	271	479.0	479.0	479.5	481.8	-	175.9	176.6	172.2	172.8	-
Periodicals .....	272	124.3	123.7	129.5	130.9		46.7	46.3	46.1	47.1	
Books .....	273	108.3	110.7	110.5	113.1		56.6	59.2	56.8	58.5	
Book publishing .....	2731	80.4	82.2	81.8	83.5		34.7	36.6	33.8	35.1	
Book printing .....	2732	27.9	28.5	28.7	29.6		21.9	22.6	23.0	23.4	
Miscellaneous publishing .....	274	80.2	80.4	82.6	83.8		42.1	42.4	41.6	42.9	
Commercial printing .....	275	540.5	541.5	561.9	565.8		393.6	394.3	410.0	412.9	
Commercial printing, letterpress .....	2751	167.4	167.2	173.9	174.8		119.8	119.2	125.0	126.1	
Commercial printing, lithographic .....	2752	344.3	345.5	358.3	361.0		250.7	251.9	261.3	262.9	
Manifold business forms .....	276	50.6	50.6	51.6	51.9		34.8	34.9	35.4	35.6	
Blankbooks and bookbinding .....	278	73.8	74.6	81.2	81.6		58.9	59.6	64.1	64.1	
Printing trade services .....	279	54.2	54.3	57.6	57.6		40.5	40.6	42.7	42.7	
Chemicals and allied products .....	28	1,039.7	1,044.3	1,071.3	1,071.7	1,073.3	583.2	587.7	601.7	600.5	601.2
Industrial inorganic chemicals .....	281	133.4	133.2	132.5	132.6	-	67.0	66.8	66.4	66.1	-
Industrial inorganic chemicals, nec .....	2819	90.4	89.9	88.5	88.7		48.3	48.2	47.7	47.4	
Plastics materials and synthetics .....	282	167.3	167.7	170.8	171.2		109.2	109.8	112.3	112.4	
Plastics materials and resins .....	2821	76.3	76.8	79.2	79.4		44.5	44.9	46.9	46.8	
Organic fibers, noncellulosic .....	2824	63.4	63.2	64.1	64.2		44.3	44.3	45.6	45.8	
Drugs .....	283	218.1	219.9	231.3	232.2		99.8	100.9	103.4	103.6	
Pharmaceutical preparations .....	2834	173.1	174.6	183.7	184.2		77.8	78.7	80.3	80.3	
Soap, cleaners, and toilet goods .....	284	158.2	158.9	166.3	164.9		101.8	102.4	107.1	105.1	
Soap and other detergents .....	2841	45.2	45.5	45.0	45.4		28.5	28.5	28.1	28.1	
Polishing, sanitation, and finishing preparations .....	2842,3	41.9	42.0	43.9	44.2		23.6	23.9	25.0	25.2	
Toilet preparations .....	2844	71.1	71.4	77.4	75.3		49.7	50.0	54.0	51.8	
Paints and allied products .....	285	61.8	61.4	61.8	61.1		30.3	30.0	30.7	30.3	
Industrial organic chemicals .....	286	152.0	152.3	158.3	158.9		86.9	87.4	91.2	91.8	
Cyclic crudes and intermediates .....	2865	29.1	29.1	30.4	30.6		18.5	18.6	18.5	18.7	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	122.9	123.2	127.9	128.3		68.4	68.8	72.7	73.1	
Agricultural chemicals .....	287	50.6	52.4	51.8	52.0		31.7	33.5	32.8	32.9	
Miscellaneous chemical products .....	289	98.3	98.5	98.5	98.8		56.5	56.9	57.8	58.3	
Petroleum and coal products .....	29	166.1	164.5	169.3	168.5	164.8	108.7	107.1	110.7	109.7	106.6
Petroleum refining .....	291	127.1	127.2	128.5	128.5	-	81.4	81.6	82.1	82.0	-
Paving and roofing materials .....	295	26.6	24.8	27.7	26.9		20.3	18.5	21.4	20.5	

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	846.3	851.2	884.7	888.5	889.7	657.4	662.4	690.4	694.2	695.8
Tires and inner tubes .....	301	85.7	85.7	87.3	87.3	-	60.7	60.9	64.9	65.0	-
Rubber and plastics footwear .....	302	12.3	12.4	12.0	12.0	-	10.2	10.2	9.9	9.9	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	23.2	23.4	25.3	25.5	-	17.0	17.2	18.7	19.0	-
Fabricated rubber products, nec .....	306	105.7	106.3	109.8	110.1	-	81.2	81.9	84.3	84.7	-
Miscellaneous plastics products .....	307	619.4	623.4	650.3	653.6	-	488.3	492.2	512.6	515.6	-
Leather and leather products .....	31	147.8	146.4	147.1	147.2	146.3	123.3	121.4	121.7	122.0	121.0
Leather tanning and finishing .....	311	14.4	14.4	14.3	14.5	-	11.9	11.9	11.9	12.0	-
Footwear, except rubber .....	314	86.8	86.7	85.5	86.0	-	74.6	74.0	72.7	73.4	-
Men's footwear, except athletic .....	3143	38.4	38.2	38.6	39.1	-	31.3	30.8	31.2	31.6	-
Women's footwear, except athletic .....	3144	30.3	30.8	28.7	28.7	-	26.8	27.2	25.3	25.4	-
Luggage .....	316	11.5	11.7	12.3	12.4	-	8.2	8.4	9.0	9.2	-
Handbags and personal leather goods .....	317	17.0	16.1	16.4	16.0	-	13.7	12.7	12.9	12.4	-
<b>Transportation and public utilities .....</b>		<b>5,498</b>	<b>5,521</b>	<b>5,683</b>	<b>5,683</b>	<b>5,696</b>	<b>4,565</b>	<b>4,584</b>	<b>4,723</b>	<b>4,724</b>	<b>4,727</b>
Transportation .....		3,265	3,287	3,434	3,434	3,451	-	-	-	-	-
Railroad transportation .....	40	303.2	299.4	302.7	295.0	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	263.8	259.5	260.7	253.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	311.6	312.1	323.3	322.2	-	288.1	288.5	297.0	295.8	-
Local and suburban transportation .....	411	110.9	111.3	117.1	117.6	-	101.3	101.7	106.5	106.7	-
Taxicabs .....	412	33.8	34.2	32.4	32.7	-	-	-	-	-	-
Intercity highway transportation .....	413	31.1	31.0	32.9	32.9	-	28.1	28.0	29.6	29.6	-
School buses .....	415	113.4	113.5	115.2	113.8	-	-	-	-	-	-
Trucking and warehousing .....	42	1,523.6	1,545.9	1,606.5	1,610.2	-	1,329.0	1,350.9	1,402.5	1,407.1	-
Trucking and trucking terminals .....	421,3	1,405.4	1,431.7	1,475.9	1,482.5	-	1,228.8	1,254.2	1,291.2	1,298.5	-
Public warehousing .....	422	118.2	114.2	130.6	127.7	-	100.2	96.7	111.3	108.6	-
Water transportation .....	44	177.0	176.5	183.5	181.3	-	-	-	-	-	-
Local water transportation .....	445	25.6	25.8	28.3	27.7	-	-	-	-	-	-
Water transportation services .....	446	97.8	96.5	102.4	100.7	-	-	-	-	-	-
Transportation by air .....	45	623.4	623.1	660.0	684.4	-	-	-	-	-	-
Air transportation .....	451,2	547.7	546.5	578.9	583.0	-	-	-	-	-	-
Air transportation services .....	458	75.7	76.6	81.1	81.4	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	18.2	18.3	16.3	16.2	-	13.2	13.3	11.5	11.4	-
Transportation services .....	47	308.1	311.4	341.9	344.6	-	-	-	-	-	-
Freight forwarding .....	471	65.4	65.3	72.0	72.7	-	-	-	-	-	-
Communication and public utilities .....		2,233	2,234	2,249	2,249	2,245	-	-	-	-	-
Communication .....	48	1,307.5	1,307.2	1,313.6	1,313.9	-	988.1	967.0	992.9	993.2	-
Telephone communication .....	481	912.9	912.3	906.3	904.6	-	672.5	671.3	664.2	662.2	-
Radio and television broadcasting .....	483	239.6	240.5	245.9	247.3	-	195.7	196.4	202.8	204.4	-
Radio broadcasting .....	4832	114.7	115.5	117.8	118.4	-	-	-	-	-	-
Television broadcasting .....	4833	124.9	125.0	128.1	128.9	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	925.8	927.1	934.9	935.2	-	732.1	732.9	738.1	737.7	-
Electric services .....	491	445.3	445.7	444.6	444.4	-	339.0	339.2	338.5	338.5	-
Gas production and distribution .....	492	165.1	165.4	167.0	166.9	-	130.5	130.7	131.7	131.3	-
Combination utility services .....	493	202.4	203.9	201.9	201.9	-	166.4	167.7	165.0	164.5	-
Sanitary services .....	495	86.3	85.3	93.7	94.3	-	74.9	74.0	81.2	81.9	-
<b>Wholesale trade .....</b>		<b>5,975</b>	<b>5,993</b>	<b>6,276</b>	<b>6,293</b>	<b>6,315</b>	<b>4,793</b>	<b>4,810</b>	<b>5,060</b>	<b>5,066</b>	<b>5,089</b>
Durable goods .....	50	3,518	3,538	3,743	3,765	3,789	2,791	2,811	2,994	3,006	-
Motor vehicles and automotive equipment .....	501	438.7	439.2	456.5	457.5	-	352.0	352.5	367.4	367.7	-
Automobiles and other motor vehicles .....	5012	114.2	114.4	120.7	122.2	-	-	-	-	-	-
Automotive parts and supplies .....	5013	293.9	294.4	304.4	303.5	-	-	-	-	-	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Furniture and home furnishings .....	502	147.6	146.8	147.5	148.8		120.3	119.9	119.0	120.7	
Furniture .....	5021	63.7	64.1	65.7	65.8		-	-	-	-	
Home furnishings .....	5023	83.9	82.7	81.8	83.0		-	-	-	-	
Lumber and construction materials .....	503	247.4	248.6	290.0	294.3		203.3	204.2	237.6	240.1	
Lumber, plywood, and millwork .....	5031	112.2	112.9	131.4	132.8		-	-	-	-	
Construction materials, nec .....	5039	135.2	135.7	158.6	161.5		-	-	-	-	
Sporting goods, toys, and hobby goods .....	504	88.8	89.6	90.5	92.8		73.0	74.0	73.4	74.7	
Metals and minerals, except petroleum .....	505	138.2	139.1	149.4	150.4		108.6	109.2	118.4	119.3	
Electrical goods .....	506	506.9	508.2	539.1	541.2		384.9	386.6	414.8	417.4	
Electrical apparatus and equipment .....	5063	279.1	280.6	301.2	302.1		-	-	-	-	
Electrical appliances, TV and radios .....	5064	68.9	68.9	70.7	71.3		-	-	-	-	
Electronic parts and equipment .....	5065	158.9	158.7	167.2	167.8		-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	266.0	267.3	274.3	274.5		215.8	216.4	221.6	221.7	
Hardware .....	5072	92.0	92.2	93.1	93.6		-	-	-	-	
Plumbing and hydronic heating supplies .....	5074	109.9	111.0	114.3	113.9		-	-	-	-	
Machinery, equipment, and supplies .....	508	1,479.0	1,492.1	1,574.0	1,583.8		1,167.6	1,181.3	1,262.9	1,265.8	
Commercial machines and equipment .....	5081	554.4	563.6	584.1	588.7		-	-	-	-	
Construction and mining machinery .....	5082	78.9	78.9	83.5	84.0		-	-	-	-	
Farm machinery and equipment .....	5083	115.3	114.2	121.9	121.9		-	-	-	-	
Industrial machinery and equipment .....	5084	307.1	308.7	329.4	331.6		-	-	-	-	
Industrial supplies .....	5085	131.9	132.0	140.2	141.2		-	-	-	-	
Professional equipment and supplies .....	5086	178.6	181.1	194.4	194.6		-	-	-	-	
Miscellaneous durable goods .....	509	205.3	207.4	221.6	221.7		165.8	167.2	178.5	178.9	
Scrap and waste materials .....	5093	93.2	94.2	103.2	102.9		-	-	-	-	
Nondurable goods .....	51	2,457	2,455	2,533	2,528	2,526	2,002	1,999	2,066	2,060	
Paper and paper products .....	511	206.7	207.1	213.9	214.7	-	167.7	167.6	173.3	174.4	
Drugs, proprietaries, and sundries .....	512	171.3	173.4	179.3	180.8		142.7	144.9	151.0	152.4	
Apparel, piece goods, and notions .....	513	202.2	200.6	207.4	207.9		154.6	153.3	160.8	160.8	
Groceries and related products .....	514	792.6	793.6	812.2	811.7		669.7	670.5	684.6	683.9	
Groceries, general line .....	5141	251.6	252.8	259.8	261.5		-	-	-	-	
Meats and meat products .....	5147	66.2	66.0	65.2	66.2		-	-	-	-	
Fresh fruits and vegetables .....	5148	97.1	97.7	106.5	103.5		-	-	-	-	
Chemicals and allied products .....	516	130.5	130.6	133.8	134.3		96.7	96.7	98.0	98.1	
Petroleum and petroleum products .....	517	200.5	201.4	205.8	205.5		156.6	156.8	161.1	160.8	
Petroleum bulk stations and terminals .....	5171	84.9	85.4	88.8	88.9		-	-	-	-	
Petroleum products, nec .....	5172	115.6	116.0	117.0	116.6		-	-	-	-	
Beer, wine, and distilled beverages .....	518	152.9	153.9	155.4	156.3		125.1	125.8	127.2	128.0	
Beer and ale .....	5181	94.6	94.9	97.6	97.4		-	-	-	-	
Wines and distilled beverages .....	5182	58.3	59.0	57.8	58.9		-	-	-	-	
Miscellaneous nondurable goods .....	519	468.1	465.6	487.3	487.7		380.8	378.2	395.0	395.1	
Farm supplies .....	5191	148.6	146.1	161.5	159.0		-	-	-	-	
<b>Retail trade .....</b>		<b>19,050</b>	<b>19,408</b>	<b>19,404</b>	<b>19,678</b>	<b>20,081</b>	<b>16,938</b>	<b>17,287</b>	<b>17,177</b>	<b>17,442</b>	<b>17,808</b>
Building materials and garden supplies .....	52	752.9	749.3	767.3	764.1		625.0	621.6	633.4	632.0	
Lumber and other building materials .....	521	415.7	410.1	418.5	415.0		350.7	345.4	351.2	348.6	
Hardware stores .....	525	159.8	161.8	166.0	167.4		133.0	134.4	137.7	139.2	
General merchandise stores .....	53	2,665.7	2,803.7	2,550.5	2,691.9	2,880.2	2,496.0	2,627.3	2,351.4	2,492.3	
Department stores .....	531	2,235.2	2,340.6	2,116.7	2,233.5	-	2,108.4	2,210.7	1,962.2	2,079.4	
Variety stores .....	533	251.0	266.6	249.1	260.2		230.2	244.2	228.0	238.8	
Misc. general merchandise stores .....	539	179.5	196.5	184.7	198.2		157.4	172.4	161.2	174.1	
Food stores .....	54	3,016.1	3,051.6	3,149.1	3,195.2	3,239.5	2,774.8	2,809.2	2,899.9	2,942.7	
Grocery stores .....	541	2,648.2	2,664.6	2,780.7	2,814.3	-	2,447.1	2,463.6	2,575.5	2,607.8	
Meat markets and freezer provisioners .....	542	58.0	58.9	59.0	60.7		-	-	-	-	
Dairy products stores .....	545	30.9	33.2	27.0	29.8		-	-	-	-	
Retail bakeries .....	546	178.5	181.2	178.7	180.2		162.4	164.5	161.3	161.1	
Automotive dealers and service stations .....	55	2,021.4	2,021.9	2,106.9	2,099.8	2,097.7	1,691.8	1,690.7	1,759.3	1,752.1	
New and used car dealers .....	551,2	987.5	986.1	1,024.5	1,021.5	-	818.3	816.2	848.0	845.5	-
Auto and home supply stores .....	553	328.2	326.9	337.0	335.0		266.6	265.3	272.3	270.6	
Gasoline service stations .....	554	610.4	614.4	637.7	637.7		531.0	534.6	553.7	553.1	

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,150.7	1,211.5	1,105.9	1,150.9	-	979.2	1,039.5	931.2	978.2	-
Men's and boys' clothing and furnishings .....	561	110.1	118.8	102.5	106.1	-	91.4	99.9	82.8	86.5	-
Women's ready-to-wear stores .....	562	394.4	412.0	384.7	393.5	-	335.5	353.1	322.9	332.6	-
Family clothing stores .....	565	275.2	297.9	259.4	278.9	-	241.5	263.3	225.6	245.4	-
Shoe stores .....	566	227.8	233.4	222.1	229.4	-	188.1	194.7	184.1	192.2	-
Furniture and home furnishings stores .....	57	831.5	848.7	829.5	843.6	-	688.3	702.9	679.2	692.6	-
Furniture and home furnishings stores .....	571	460.4	465.7	465.3	470.0	-	379.9	384.2	379.4	384.6	-
Furniture stores .....	5712	284.0	286.0	289.1	291.0	-	-	-	-	-	-
Household appliance stores .....	572	90.4	91.1	87.5	88.1	-	77.6	78.5	73.4	73.9	-
Radio, television, and music stores .....	573	280.7	291.9	276.7	285.5	-	230.8	240.2	226.4	234.1	-
Radio and television stores .....	5732	204.7	212.2	198.2	203.4	-	-	-	-	-	-
Music stores .....	5733	76.0	79.7	78.5	82.1	-	-	-	-	-	-
Eating and drinking places .....	58	6,162.8	6,174.9	6,421.9	6,381.7	6,390.5	5,604.2	5,620.9	5,844.7	5,799.4	-
Miscellaneous retail .....	59	2,448.4	2,545.9	2,472.6	2,551.0	-	2,078.3	2,174.4	2,078.0	2,152.2	-
Drug stores and proprietary stores .....	591	592.2	607.4	586.8	593.9	-	508.0	521.9	499.9	506.7	-
Liquor stores .....	592	125.3	129.6	125.7	127.2	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	845.3	906.8	835.1	886.4	-	717.7	778.5	700.6	749.5	-
Sporting goods and bicycle shops .....	5941	147.7	155.0	150.1	154.3	-	-	-	-	-	-
Book stores .....	5942	78.7	82.4	82.5	84.7	-	-	-	-	-	-
Stationery stores .....	5943	76.9	78.0	77.9	79.1	-	-	-	-	-	-
Jewelry stores .....	5944	156.7	168.0	156.6	166.2	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	164.9	177.8	168.7	173.8	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	63.3	64.0	62.7	63.6	-	-	-	-	-	-
Nonstore retailers .....	596	293.5	295.8	278.1	282.7	-	266.0	267.6	248.5	252.9	-
Mail order houses .....	5961	144.8	145.6	133.1	136.2	-	-	-	-	-	-
Merchandising machine operators .....	5962	89.3	90.1	90.1	90.8	-	-	-	-	-	-
Fuel and ice dealers .....	598	111.9	113.0	117.5	121.0	-	93.1	94.3	98.0	101.0	-
Retail stores, nec .....	599	393.3	406.4	437.2	446.5	-	319.8	334.1	353.0	360.9	-
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,582</b>	<b>6,601</b>	<b>6,691</b>	<b>6,699</b>	<b>6,712</b>	<b>4,796</b>	<b>4,812</b>	<b>4,840</b>	<b>4,841</b>	<b>4,849</b>
<b>Finance</b> .....		<b>3,289</b>	<b>3,296</b>	<b>3,295</b>	<b>3,304</b>	<b>3,317</b>	-	-	-	-	-
Banking .....	60	1,727.0	1,731.0	1,729.5	1,735.8	-	1,241.0	1,243.2	1,233.0	1,236.9	-
Commercial and stock savings banks .....	602	1,557.1	1,560.3	1,552.1	1,557.0	-	1,115.3	1,117.1	1,103.4	1,105.8	-
State banks, Federal Reserve .....	6022	343.5	344.6	344.1	345.0	-	-	-	-	-	-
State banks, not Federal Reserve .....	6023,4	371.0	372.2	373.9	374.9	-	-	-	-	-	-
Mutual savings banks .....	603	84.1	84.5	85.4	86.0	-	-	-	-	-	-
Credit agencies other than banks .....	61	890.2	890.0	893.8	896.0	-	664.0	663.1	664.7	666.6	-
Savings and loan associations .....	612	399.2	399.4	390.3	391.7	-	303.4	303.4	295.8	296.5	-
Federal savings and loan associations .....	6122	221.3	221.4	220.5	221.7	-	-	-	-	-	-
State associations, insured .....	6123	173.1	173.2	165.2	165.5	-	-	-	-	-	-
Personal credit institutions .....	614	239.8	241.3	250.4	251.7	-	185.3	186.5	193.7	195.1	-
Business credit institutions .....	615	58.3	58.2	69.6	71.2	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	168.6	167.3	161.7	159.8	-	-	-	-	-	-
Security, commodity brokers, and services .....	62	463.5	464.7	453.1	452.2	-	-	-	-	-	-
Security brokers and dealers .....	621	362.4	362.2	347.5	346.3	-	-	-	-	-	-
Holding and other investment offices .....	67	208.4	210.4	218.2	219.7	-	-	-	-	-	-
<b>Insurance</b> .....		<b>2,039</b>	<b>2,047</b>	<b>2,085</b>	<b>2,090</b>	<b>2,094</b>	-	-	-	-	-
Insurance carriers .....	63	1,429.0	1,435.1	1,456.3	1,459.0	-	955.2	961.5	969.7	971.5	-
Life insurance .....	631	586.0	590.2	592.9	593.4	-	355.0	357.1	353.8	354.8	-
Medical service and health insurance .....	632	199.6	199.9	206.7	207.7	-	160.8	161.5	167.1	168.0	-
Fire, marine, and casualty insurance .....	633	539.6	541.7	552.0	553.2	-	360.6	364.5	369.3	369.4	-
Title insurance .....	636	56.7	56.0	57.0	56.6	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	609.6	612.1	628.6	630.5	-	-	-	-	-	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,254	1,258	1,311	1,305	1,301					
Real estate .....	65	1,244.5	1,247.8	1,301.6	1,295.6						
Real estate operators and lessors .....	651	529.4	536.1	546.6	548.0						
Real estate agents and managers .....	653	530.4	533.7	558.7	557.7						
Subdividers and developers .....	655	151.2	145.3	163.2	156.8						
Combined real estate, insurance, etc .....	66	9.9	10.0	9.6	9.6						
<b>Services .....</b>		<b>24,578</b>	<b>24,622</b>	<b>25,929</b>	<b>25,912</b>	<b>25,960</b>	<b>21,528</b>	<b>21,558</b>	<b>22,651</b>	<b>22,627</b>	<b>22,653</b>
Hotels and other lodging places .....	70	1,460.0	1,465.5	1,609.8	1,583.5	-	-	-	-	-	
Hotels, motels, and tourist courts .....	701	1,422.6	1,429.1	1,565.1	1,540.5		1,263.6	1,270.0	1,396.6	1,372.1	
Personal services .....	72	1,156.5	1,179.0	1,203.1	1,200.7		-	-	-	-	
Laundry, cleaning, and garment services .....	721	412.6	413.9	419.2	418.3		367.8	368.4	372.7	371.6	
Photographic studios, portrait .....	722	62.4	61.0	59.1	59.1		-	-	-	-	
Beauty shops .....	723	355.6	356.7	357.9	359.6		319.9	320.5	319.0	320.3	
Funeral service and crematories .....	726	76.6	77.2	78.5	78.1		-	-	-	-	
Business services .....	73	5,322.3	5,326.6	5,609.0	5,599.2	5,628.3	4,567.2	4,564.7	4,793.6	4,780.8	
Advertising .....	731	215.0	215.8	216.6	217.1	-	160.2	161.2	160.8	160.5	
Advertising agencies .....	7311	158.7	159.0	159.4	160.2		-	-	-	-	
Credit reporting and collection .....	732	97.0	97.3	95.1	96.0		-	-	-	-	
Mailing, reproduction, and stenographic .....	733	224.7	227.9	252.5	255.3		-	-	-	-	
Services to buildings .....	734	711.5	706.2	728.6	725.6	-	642.9	638.4	657.8	655.8	
Personnel supply services .....	736	1,268.7	1,262.3	1,339.5	1,323.7		-	-	-	-	
Employment agencies .....	7361	188.3	186.5	200.8	195.9		-	-	-	-	
Temporary help supply services .....	7362	997.5	993.1	1,052.9	1,041.9		-	-	-	-	
Computer and data processing services .....	737	675.4	681.2	751.4	754.9		530.5	534.1	586.0	588.1	
Computer programming and software .....	7372	254.9	258.7	290.5	293.4		-	-	-	-	
Data processing services .....	7374	308.9	310.9	336.4	336.6		-	-	-	-	
Miscellaneous business services .....	739	2,120.8	2,126.6	2,214.9	2,216.0		-	-	-	-	
Research development laboratories, nec .....	7391	192.8	196.4	201.5	201.2		-	-	-	-	
Management and public relations .....	7392	597.2	598.5	614.1	621.3		-	-	-	-	
Detective and protective services .....	7393	458.2	460.1	478.1	480.4		-	-	-	-	
Equipment rental and leasing .....	7394	247.8	246.7	263.4	261.4		-	-	-	-	
Photofinishing laboratories .....	7395	85.3	83.5	85.3	85.6		-	-	-	-	
Auto repair, services, and garages .....	75	802.3	804.8	840.2	840.2		667.9	669.1	692.3	691.5	
Automotive rentals, without drivers .....	751	161.5	164.5	170.0	169.2		-	-	-	-	
Automotive repair shops .....	753	480.3	479.7	508.7	509.0		397.3	395.8	418.8	417.4	
Miscellaneous repair services .....	76	326.2	326.9	346.6	347.4		270.7	270.8	283.5	283.3	
Electrical repair shops .....	762	105.0	105.4	117.4	117.9		-	-	-	-	
Motion pictures .....	78	230.4	231.4	230.9	232.0		193.9	195.6	192.6	194.3	
Motion picture production and services .....	781	116.5	116.1	116.7	121.2		94.6	94.6	92.3	96.9	
Motion picture theaters .....	783	99.4	100.9	98.5	95.3		-	-	-	-	
Amusement and recreation services .....	79	802.2	815.8	908.5	854.2		696.1	709.4	780.5	732.4	
Health services .....	80	6,954.4	6,982.7	7,365.3	7,405.8	7,458.7	6,182.1	6,209.9	6,541.1	6,579.0	
Offices of physicians .....	801	1,078.2	1,088.4	1,166.7	1,172.8	-	886.1	895.8	955.7	961.9	
Offices of dentists .....	802	476.6	477.9	498.6	500.5		420.5	421.2	436.1	437.7	
Nursing and personal care facilities .....	805	1,298.7	1,301.1	1,340.5	1,346.7		1,172.2	1,174.8	1,209.3	1,216.2	
Skilled nursing care facilities .....	8051	870.8	872.0	898.1	902.6		-	-	-	-	
Nursing and personal care, nec .....	8059	427.9	429.1	442.4	444.1	-	-	-	-	-	
Hospitals .....	806	3,215.4	3,224.6	3,390.7	3,405.6		2,933.8	2,943.6	3,099.3	3,113.9	
General medical and surgical hospitals .....	8062	2,997.7	3,006.5	3,158.1	3,172.1		-	-	-	-	
Psychiatric hospitals .....	8063	77.1	77.5	83.1	83.6		-	-	-	-	
Specialty hospitals, excluding psychiatric .....	8069	140.6	140.6	149.5	149.9		-	-	-	-	
Medical and dental laboratories .....	807	139.5	140.1	155.2	156.1		-	-	-	-	
Outpatient care facilities .....	808	269.2	270.1	304.1	307.9		-	-	-	-	

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	805.6	806.3	836.2	843.4		675.6	675.3	696.0	702.8	-
Educational services .....	82	1,566.2	1,536.3	1,610.3	1,635.9						
Elementary and secondary schools .....	821	380.6	381.2	385.9	390.0			-	-	-	-
Colleges and universities .....	822	1,018.3	987.2	1,044.5	1,063.8						
Correspondence and vocational schools .....	824	79.8	80.2	80.6	81.7						
Social services .....	83	1,533.0	1,540.5	1,616.4	1,634.0		-	-			
Individual and family services .....	832	302.1	303.6	308.9	311.6						
Job training and related services .....	833	221.5	223.5	215.7	216.0						
Residential care .....	836	357.2	360.4	379.8	384.6						
Museums, botanical and zoological gardens .....	84	49.1	49.3	50.2	48.8			-	-		
Membership organizations .....	86	1,579.7	1,586.7	1,607.2	1,607.3						
Business associations .....	861	91.3	91.2	93.4	93.1		-				
Labor organizations .....	863	132.5	135.3	137.0	135.6						
Civic and social associations .....	864	366.1	369.5	378.8	382.6						
Miscellaneous services .....	89	1,337.7	1,342.9	1,409.8	1,416.8		1,082.7	1,087.7	1,131.3	1,135.9	-
Engineering and architectural services .....	891	730.8	732.2	775.0	777.1		615.3	616.6	643.8	644.5	-
Noncommercial research organizations .....	892	123.1	123.6	126.7	128.2		-	-	-	-	-
Accounting, auditing, and bookkeeping .....	893	457.1	460.3	478.4	481.5		349.6	353.1	364.7	367.3	-
<b>Government .....</b>		<b>17,513</b>	<b>17,491</b>	<b>17,726</b>	<b>17,923</b>	<b>17,871</b>					
Federal Government <sup>4</sup> .....		2,956	2,972	2,968	2,970	2,984					
Executive, by agency <sup>4</sup> .....		2,898.3	2,914.3	2,909.1							
Department of Defense .....		994.2	991.5	951.3							
Postal Service <sup>5</sup> .....		810.6	832.9	830.0							
Other executive agencies .....		1,093.5	1,089.9	1,127.8							
Legislative .....		37.9	37.8	37.3							
Judicial .....		20.1	20.2	21.1							
Federal government, by industry:											
Manufacturing activities .....		125.4	125.4	121.3	121.5						
Shipbuilding and repairing .....	3731	76.4	76.3	74.1	74.3						
Transportation and public utilities, except Postal Service .....		44.1	43.1	38.6	38.8						
Services .....		428.1	428.6	436.3	436.5	-					
Hospitals .....	806	250.5	250.8	247.2	247.2		-	-			
State government .....		4,105	4,084	4,168	4,189	4,170					
Hospitals .....	806	440.0	439.9	446.3	447.5						
Education .....	82	1,735.6	1,710.7	1,731.9	1,763.7						
General administration, including executive, legislative, and judicial functions .....		1,394.4	1,398.7	1,444.0	1,435.0						
Local government .....		10,452	10,435	10,590	10,764	10,717					
Transportation and public utilities .....		492.4	492.3	495.5	495.8						
Hospitals .....	806	618.3	620.5	640.9	642.9						
Education .....	82	5,974.5	5,958.0	6,000.7	6,116.9						
General administration, including executive, legislative, and judicial functions .....		3,037.3	3,035.4	3,100.4	3,157.8						

<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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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. 1987	Oct. 1987	Aug. 1988	Sept. 1988	Oct. 1988
<b>Total</b> .....	47,637	48,341	48,673	49,586	50,165
<b>Total private</b> .....	39,120	39,391	40,599	40,778	40,980
<b>Goods-producing</b> .....	7,006	7,027	7,166	7,195	7,210
<b>Mining</b> .....	96	96	100	98	98
<b>Construction</b> .....	543	545	589	588	590
<b>Manufacturing</b> .....	6,367	6,386	6,477	6,509	6,522
<b>Durable goods</b> .....	3,035	3,055	3,102	3,119	3,132
Lumber and wood products .....	121	121	126	125	124
Furniture and fixtures .....	164	167	165	168	169
Stone, clay, and glass products .....	115	116	119	119	119
Primary metal industries .....	103	104	107	108	108
Fabricated metal products .....	322	324	331	333	334
Machinery, except electrical .....	453	457	479	480	484
Electrical and electronic equipment .....	877	882	890	894	898
Transportation equipment .....	400	399	392	397	399
Instruments and related products .....	302	305	314	314	315
Miscellaneous manufacturing .....	176	181	180	182	183
<b>Nondurable goods</b> .....	3,332	3,331	3,375	3,390	3,390
Food and kindred products .....	559	542	560	562	553
Tobacco manufactures .....	18	19	17	19	19
Textile mill products .....	356	356	349	350	350
Apparel and other textile products .....	886	892	867	873	876
Paper and allied products .....	166	166	170	170	171
Printing and publishing .....	649	654	681	681	686
Chemicals and allied products .....	299	299	315	315	315
Petroleum and coal products .....	24	24	26	26	26
Rubber and misc. plastics products .....	288	293	302	305	308
Leather and leather products .....	87	88	87	88	87
<b>Service-producing</b> .....	40,631	41,314	41,507	42,391	42,955
<b>Transportation and public utilities</b> .....	1,569	1,582	1,611	1,640	1,649
<b>Wholesale trade</b> .....	1,761	1,778	1,854	1,870	1,891
<b>Retail trade</b> .....	9,922	9,993	10,249	10,273	10,304
<b>Finance, insurance, and real estate</b> .....	4,103	4,107	4,206	4,176	4,180
<b>Services</b> .....	14,759	14,904	15,513	15,624	15,746
<b>Government</b> .....	8,517	8,951	8,074	8,808	9,185
Federal .....	1,049	1,049	1,065	1,061	1,081
State .....	1,885	1,983	1,863	1,963	2,050
Local .....	5,583	5,919	5,146	5,784	6,074

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1987 forward are subject to revision.



**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Total</b> .....	104,001	104,262	104,729	105,020	105,281	105,489	106,057	106,271	106,425	106,737	106,973	107,377	107,656
<b>Total private</b> .....	86,794	87,044	87,475	87,700	87,973	88,139	88,678	88,941	89,066	89,205	89,481	89,817	90,082
<b>Goods-producing</b> .....	25,201	25,180	25,271	25,330	25,435	25,466	25,592	25,663	25,639	25,648	25,743	25,844	25,893
<b>Mining</b> .....	735	728	731	733	737	739	740	740	739	734	729	721	723
Oil and gas extraction .....	417	414	415	419	421	425	425	424	423	419	413	405	402
<b>Construction</b> .....	5,118	5,083	5,150	5,192	5,238	5,237	5,308	5,330	5,340	5,365	5,366	5,405	5,418
General building contractors .....	1,352	1,365	1,377	1,383	1,400	1,394	1,412	1,400	1,401	1,404	1,393	1,404	1,414
<b>Manufacturing</b> .....	19,348	19,369	19,390	19,405	19,460	19,490	19,544	19,593	19,560	19,549	19,648	19,718	19,752
<b>Durable goods</b> .....	11,390	11,393	11,404	11,411	11,459	11,477	11,515	11,566	11,547	11,537	11,595	11,638	11,668
Lumber and wood products .....	754	754	756	755	758	757	757	756	753	753	760	768	772
Furniture and fixtures .....	533	536	535	534	535	537	537	541	537	538	540	540	542
Stone, clay, and glass products .....	588	583	584	585	587	585	587	589	586	585	588	591	594
Primary metal industries .....	769	768	770	772	773	776	781	789	785	787	794	796	796
Blast furnaces and basic steel products .....	279	279	280	281	281	281	281	282	281	280	282	283	281
Fabricated metal products .....	1,433	1,435	1,438	1,439	1,444	1,448	1,457	1,464	1,458	1,460	1,469	1,473	1,479
Machinery, except electrical .....	2,074	2,085	2,091	2,099	2,111	2,121	2,134	2,151	2,156	2,159	2,173	2,186	2,193
Electrical and electronic equipment .....	2,110	2,112	2,112	2,115	2,117	2,115	2,120	2,122	2,126	2,124	2,126	2,131	2,130
Transportation equipment .....	2,046	2,036	2,031	2,025	2,045	2,048	2,047	2,052	2,044	2,032	2,045	2,050	2,053
Motor vehicles and equipment .....	851	839	837	835	848	851	850	857	855	849	859	860	861
Instruments and related products .....	704	704	705	705	706	709	713	715	718	716	719	720	723
Miscellaneous manufacturing .....	379	380	382	382	383	381	382	387	384	383	381	383	386
<b>Nondurable goods</b> .....	7,958	7,976	7,986	7,994	8,001	8,013	8,029	8,027	8,013	8,012	8,053	8,080	8,084
Food and kindred products .....	1,638	1,647	1,649	1,647	1,648	1,643	1,645	1,631	1,630	1,632	1,654	1,662	1,659
Tobacco manufactures .....	54	55	54	54	54	52	53	52	52	51	52	53	52
Textile mill products .....	733	732	732	729	727	728	727	726	719	722	722	723	723
Apparel and other textile products .....	1,106	1,105	1,104	1,106	1,100	1,100	1,097	1,096	1,089	1,087	1,086	1,093	1,094
Paper and allied products .....	684	685	686	687	687	689	691	692	691	688	691	692	689
Printing and publishing .....	1,532	1,538	1,544	1,548	1,554	1,559	1,565	1,567	1,572	1,575	1,581	1,583	1,590
Chemicals and allied products .....	1,047	1,047	1,049	1,052	1,056	1,060	1,065	1,067	1,070	1,069	1,071	1,073	1,075
Petroleum and coal products .....	167	166	165	164	165	166	167	167	167	168	169	169	167
Rubber and misc. plastics products .....	851	854	856	860	864	870	873	882	878	874	882	887	889
Leather and leather products .....	146	147	147	147	146	146	146	147	145	146	145	145	146
<b>Service-producing</b> .....	78,800	79,082	79,458	79,690	79,846	80,023	80,465	80,608	80,786	81,089	81,230	81,533	81,763
<b>Transportation and public utilities</b> .....	5,481	5,499	5,513	5,530	5,543	5,556	5,582	5,598	5,605	5,618	5,631	5,648	5,650
Transportation .....	3,244	3,261	3,272	3,285	3,298	3,308	3,332	3,345	3,351	3,366	3,380	3,397	3,403
Communication and public utilities .....	2,237	2,238	2,241	2,245	2,245	2,248	2,250	2,253	2,254	2,252	2,251	2,251	2,247
<b>Wholesale trade</b> .....	5,984	6,010	6,035	6,061	6,089	6,115	6,148	6,174	6,192	6,219	6,246	6,276	6,303
Durable goods .....	3,536	3,555	3,573	3,591	3,610	3,635	3,660	3,681	3,696	3,714	3,736	3,761	3,785
Nondurable goods .....	2,448	2,455	2,462	2,470	2,479	2,480	2,488	2,493	2,496	2,505	2,510	2,515	2,518
<b>Retail trade</b> .....	18,784	18,927	19,045	19,050	19,093	19,130	19,205	19,261	19,279	19,291	19,327	19,387	19,439
General merchandise stores .....	2,494	2,526	2,561	2,543	2,546	2,541	2,549	2,545	2,539	2,533	2,520	2,518	2,565
Food stores .....	2,988	3,014	3,029	3,044	3,049	3,053	3,080	3,097	3,106	3,110	3,143	3,157	3,173
Automotive dealers and service stations .....	2,033	2,038	2,047	2,055	2,064	2,070	2,076	2,088	2,095	2,095	2,103	2,106	2,108
Eating and drinking places .....	6,232	6,260	6,291	6,319	6,326	6,336	6,352	6,369	6,377	6,384	6,415	6,440	6,449
<b>Finance, insurance, and real estate</b> .....	6,619	6,633	6,636	6,651	6,650	6,656	6,679	6,684	6,689	6,692	6,708	6,724	6,733
Finance .....	3,301	3,308	3,305	3,306	3,302	3,299	3,304	3,300	3,298	3,300	3,308	3,314	3,324
Insurance .....	2,049	2,052	2,053	2,060	2,065	2,067	2,074	2,077	2,081	2,083	2,089	2,092	2,096
Real estate .....	1,269	1,273	1,278	1,285	1,283	1,290	1,301	1,307	1,310	1,309	1,311	1,318	1,313
<b>Services</b> .....	24,725	24,795	24,975	25,078	25,163	25,216	25,472	25,561	25,662	25,737	25,826	25,938	26,064
Business services .....	5,306	5,321	5,385	5,405	5,420	5,443	5,480	5,500	5,512	5,538	5,553	5,560	5,606
Health services .....	6,995	7,019	7,056	7,088	7,126	7,153	7,203	7,238	7,271	7,323	7,365	7,413	7,474
<b>Government</b> .....	17,207	17,218	17,254	17,320	17,308	17,350	17,379	17,330	17,359	17,532	17,492	17,560	17,574
Federal .....	2,980	2,973	2,972	2,970	2,963	2,957	2,951	2,951	2,956	2,989	2,989	2,988	2,993
State .....	4,001	4,006	4,014	4,031	4,041	4,050	4,049	4,059	4,070	4,086	4,070	4,071	4,084
Local .....	10,226	10,239	10,268	10,319	10,304	10,343	10,379	10,320	10,333	10,457	10,433	10,501	10,497

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987			1988									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>Total</b> .....	47,941	48,072	48,240	48,396	48,615	48,772	48,865	48,999	49,306	49,371	49,491	49,658	49,739
<b>Total private</b> .....	39,170	39,295	39,425	39,573	39,767	39,881	39,969	40,075	40,357	40,459	40,549	40,646	40,743
<b>Goods-producing</b> .....	6,963	6,990	7,007	7,022	7,028	7,040	7,058	7,082	7,103	7,125	7,112	7,116	7,142
<b>Mining</b> .....	96	96	96	96	96	96	97	97	99	97	100	98	98
<b>Construction</b> .....	538	542	543	546	549	552	558	566	569	574	578	581	582
<b>Manufacturing</b> .....	6,329	6,352	6,368	6,380	6,383	6,392	6,403	6,419	6,435	6,454	6,434	6,437	6,462
<b>Durable goods</b> .....	3,038	3,045	3,056	3,059	3,062	3,067	3,077	3,085	3,096	3,112	3,107	3,106	3,114
Lumber and wood products .....	120	120	121	122	122	122	123	123	123	123	123	123	123
Furniture and fixtures .....	166	166	166	167	166	166	166	167	166	168	166	168	168
Stone, clay, and glass products .....	115	115	116	116	116	116	117	118	117	119	118	117	117
Primary metal industries .....	104	104	105	104	105	104	105	106	108	107	107	108	108
Fabricated metal products .....	322	323	324	325	325	326	327	329	331	333	332	331	332
Machinery, except electrical .....	458	460	463	466	467	469	471	473	476	480	482	483	485
Electrical and electronic equipment .....	877	878	881	882	882	885	886	885	890	891	891	890	893
Transportation equipment .....	398	398	399	396	393	393	396	397	397	398	396	394	397
Instruments and related products .....	304	306	306	306	308	308	308	309	311	313	314	314	315
Miscellaneous manufacturing .....	174	175	175	175	178	178	178	178	177	180	178	178	176
<b>Nondurable goods</b> .....	3,291	3,307	3,312	3,321	3,321	3,325	3,326	3,334	3,339	3,342	3,327	3,331	3,348
Food and kindred products .....	518	521	521	528	528	526	528	526	526	521	514	519	528
Tobacco manufactures .....	17	17	18	18	18	17	17	17	17	18	18	17	17
Textile mill products .....	353	354	354	353	353	352	350	351	351	351	347	347	347
Apparel and other textile products .....	883	886	883	881	879	880	875	877	874	874	868	867	867
Paper and allied products .....	165	166	167	167	167	167	167	167	168	169	169	169	169
Printing and publishing .....	654	658	660	664	666	669	672	673	677	679	683	683	687
Chemicals and allied products .....	299	301	303	303	304	305	307	309	311	311	313	313	315
Petroleum and coal 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> )
Rubber and misc. plastics products .....	291	293	296	296	296	298	300	303	304	307	304	304	305
Leather and leather products .....	87	87	86	87	86	87	86	86	86	87	85	86	86
<b>Service-producing</b> .....	40,978	41,082	41,233	41,374	41,587	41,732	41,807	41,917	42,203	42,246	42,379	42,542	42,597
<b>Transportation and public utilities</b> .....	1,568	1,572	1,576	1,580	1,588	1,599	1,602	1,610	1,625	1,625	1,632	1,630	1,634
<b>Wholesale trade</b> .....	1,762	1,774	1,785	1,795	1,802	1,813	1,813	1,826	1,838	1,848	1,854	1,864	1,874
<b>Retail trade</b> .....	9,925	9,955	9,972	10,056	10,127	10,123	10,130	10,161	10,192	10,198	10,218	10,232	10,232
<b>Finance, insurance, and real estate</b> .....	4,120	4,126	4,131	4,139	4,139	4,147	4,141	4,147	4,164	4,167	4,173	4,180	4,193
<b>Services</b> .....	14,832	14,878	14,954	14,981	15,083	15,159	15,225	15,249	15,435	15,496	15,560	15,624	15,668
<b>Government</b> .....	8,771	8,777	8,815	8,823	8,848	8,891	8,896	8,924	8,949	8,912	8,942	9,012	8,996
Federal .....	1,057	1,060	1,062	1,060	1,061	1,061	1,057	1,054	1,050	1,050	1,057	1,067	1,070
State .....	1,935	1,937	1,945	1,947	1,952	1,960	1,968	1,971	1,978	1,987	1,990	2,007	2,000
Local .....	5,779	5,780	5,808	5,816	5,835	5,870	5,871	5,899	5,921	5,875	5,895	5,938	5,926

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

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Total private</b> .....	70,234	70,405	70,787	70,961	71,170	71,260	71,736	71,948	72,063	72,109	72,328	72,587	72,777
<b>Goods-producing</b> .....	17,743	17,698	17,798	17,839	17,909	17,925	18,025	18,085	18,058	18,049	18,124	18,203	18,237
<b>Mining</b> .....	530	524	527	529	533	535	535	535	536	530	527	518	520
<b>Construction</b> .....	3,998	3,949	4,022	4,059	4,096	4,088	4,149	4,168	4,170	4,187	4,185	4,218	4,228
<b>Manufacturing</b> .....	13,215	13,225	13,249	13,251	13,280	13,302	13,341	13,382	13,352	13,332	13,412	13,467	13,489
<b>Durable goods</b> .....	7,590	7,582	7,599	7,598	7,632	7,649	7,676	7,720	7,705	7,689	7,733	7,768	7,792
Lumber and wood products .....	630	629	631	631	633	632	634	630	628	626	632	638	642
Furniture and fixtures .....	427	428	427	426	427	429	429	432	428	430	432	433	434
Stone, clay, and glass products .....	457	453	454	455	457	455	457	460	457	455	457	460	483
Primary metal industries .....	584	583	588	588	591	594	599	605	601	603	609	610	611
Blast furnaces and basic steel products .....	213	214	216	217	219	218	219	220	218	216	218	218	218
Fabricated metal products .....	1,068	1,068	1,071	1,071	1,073	1,079	1,085	1,091	1,087	1,088	1,096	1,101	1,104
Machinery, except electrical .....	1,238	1,244	1,250	1,256	1,282	1,269	1,273	1,287	1,289	1,289	1,299	1,311	1,317
Electrical and electronic equipment .....	1,241	1,240	1,241	1,242	1,244	1,244	1,250	1,254	1,256	1,254	1,257	1,261	1,259
Transportation equipment .....	1,283	1,273	1,271	1,281	1,278	1,278	1,276	1,284	1,284	1,289	1,278	1,278	1,280
Motor vehicles and equipment .....	661	651	649	648	658	660	660	671	674	664	672	672	671
Instruments and related products .....	365	367	368	368	369	391	394	395	396	396	399	399	401
Miscellaneous manufacturing .....	277	277	280	280	280	278	279	282	279	279	276	277	281
<b>Nondurable goods</b> .....	5,625	5,643	5,850	5,653	5,848	5,653	5,665	5,662	5,647	5,843	5,679	5,699	5,697
Food and kindred products .....	1,161	1,169	1,172	1,168	1,169	1,164	1,188	1,153	1,151	1,153	1,174	1,181	1,175
Tobacco manufactures .....	41	42	41	41	40	39	40	39	36	37	38	40	38
Textile mill products .....	636	636	636	634	632	632	630	632	622	626	628	626	626
Apparel and other textile products .....	930	929	928	930	926	925	923	922	916	915	916	922	924
Paper and allied products .....	519	520	521	521	520	521	523	524	524	520	521	522	521
Printing and publishing .....	858	863	867	870	871	872	875	876	879	880	883	885	886
Chemicals and allied products .....	589	589	589	592	593	596	599	600	603	601	603	602	603
Petroleum and coal products .....	109	109	108	107	107	108	108	108	109	109	110	110	109
Rubber and misc. plastics products .....	681	664	666	669	670	676	679	687	685	682	688	691	694
Leather and leather products .....	121	122	122	121	120	120	120	121	120	120	120	120	121
<b>Service-producing</b> .....	52,491	52,707	52,989	53,122	53,261	53,335	53,711	53,863	54,005	54,080	54,204	54,384	54,540
<b>Transportation and public utilities</b> .....	4,545	4,560	4,574	4,587	4,600	4,611	4,632	4,648	4,661	4,656	4,672	4,691	4,685
<b>Wholesale trade</b> .....	4,802	4,825	4,848	4,881	4,902	4,924	4,956	4,975	4,990	5,011	5,030	5,051	5,079
<b>Retail trade</b> .....	16,671	16,795	16,902	16,897	18,949	16,949	17,028	17,070	17,087	17,078	17,109	17,150	17,173
<b>Finance, insurance, and real estate</b> .....	4,824	4,831	4,827	4,825	4,823	4,828	4,842	4,844	4,851	4,847	4,855	4,865	4,859
<b>Services</b> .....	21,649	21,696	21,838	21,932	21,987	22,023	22,253	22,326	22,416	22,488	22,538	22,627	22,744

<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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1986.....	57.0	47.3	49.5	50.8	51.9	46.8	51.9	54.1	51.4	53.0	58.9	58.9
	1987.....	50.8	59.2	61.1	62.4	62.4	61.6	70.8	62.2	68.1	67.3	67.8	68.4
	1988.....	61.6	61.6	62.2	63.8	58.1	68.9	61.4	51.9	49.5	62.4	<sup>p</sup> 71.1	<sup>p</sup> 63.2
Over 3-month span	1986.....	50.0	47.6	45.7	46.2	46.2	46.2	48.1	51.9	50.5	55.9	59.7	59.2
	1987.....	57.6	57.0	65.1	69.2	68.1	71.9	73.8	76.8	74.1	76.5	78.1	73.0
	1988.....	71.6	66.8	67.0	66.8	71.4	69.7	68.4	57.3	57.0	<sup>p</sup> 66.2	<sup>p</sup> 74.3	
Over 6-month span	1986.....	48.1	47.3	43.8	42.7	43.2	47.0	46.5	50.0	55.9	53.2	55.9	58.4
	1987.....	64.6	64.3	63.0	70.3	72.4	77.3	78.4	79.7	82.7	77.8	77.0	76.5
	1988.....	73.5	70.3	70.3	73.8	70.5	68.4	64.9	<sup>p</sup> 72.4	<sup>p</sup> 71.1			
Over 12-month span	1986.....	42.2	41.6	43.8	44.9	45.7	48.6	46.8	48.6	51.6	53.8	56.5	57.8
	1987.....	63.8	67.3	69.5	73.5	76.8	76.8	78.9	78.9	79.7	78.4	77.8	81.9
	1988.....	77.6	77.6	73.5	74.3	<sup>p</sup> 76.2	<sup>p</sup> 73.5						

<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. Beginning with the publication

of January 1989 data, a broader-based diffusion index covering 349 private nonagricultural industries will replace the 185-industry index shown in this table. A new manufacturing index, comprised of 143 industries, will also be published. Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Alabama</b> .....	1,524.0	1,538.6	1,545.7	11.7	11.6	11.6	74.5	75.2	74.2
Birmingham .....	397.1	408.5	409.9	5.7	5.6	5.6	24.5	27.5	27.2
Huntsville .....	125.7	130.4	130.5	.1	.1	.1	5.7	5.9	5.9
Mobile .....	160.8	161.8	163.4	.5	.5	.6	9.5	9.0	9.1
Montgomery .....	126.5	126.6	127.1	.2	.2	.2	8.0	7.5	7.5
Tuscaloosa .....	59.1	61.1	61.5	2.5	2.5	2.5	3.0	3.2	3.2
<b>Alaska</b> .....	206.5	212.3	207.4	8.4	9.0	8.8	10.1	10.0	8.1
<b>Arizona</b> .....	1,417.2	1,421.7	1,429.0	11.7	12.1	12.0	99.1	95.8	94.5
Phoenix .....	933.3	932.6	937.8	.6	.7	.7	66.3	64.0	63.4
Tucson .....	250.0	251.0	251.9	1.6	1.8	1.8	19.4	18.5	18.2
<b>Arkansas</b> .....	851.4	872.0	872.1	4.0	4.2	4.2	34.2	35.5	34.3
Fayetteville-Springdale .....	49.2	51.2	51.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	1.9	1.9
Fort Smith .....	77.7	76.7	76.5	.9	1.0	1.0	2.9	2.9	2.8
Little Rock-North Little Rock .....	233.3	241.0	241.5	.4	.4	.4	11.2	12.2	11.7
Pine Bluff .....	32.7	33.1	33.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.5
<b>California</b> .....	11,906.4	12,264.1	12,327.2	41.0	40.4	40.2	605.8	666.8	663.4
Anaheim-Santa Ana .....	1,106.7	1,124.7	1,131.0	1.6	1.3	1.3	63.3	66.6	66.9
Bakersfield .....	160.1	158.9	159.1	13.0	13.0	12.8	9.1	8.6	8.4
Fresno .....	206.7	212.8	212.4	.6	.5	.5	12.0	13.2	12.8
Los Angeles-Long Beach .....	4,084.9	4,146.3	4,167.4	9.5	9.4	9.3	153.7	160.7	161.5
Modesto .....	108.1	111.7	111.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	6.8	6.6
Oakland .....	826.1	847.7	853.5	3.2	3.3	3.4	49.5	52.8	51.6
Oxnard-Ventura .....	208.5	213.4	214.6	2.6	2.6	2.6	13.2	13.9	13.9
Riverside-San Bernardino .....	624.2	643.5	648.2	1.2	1.3	1.3	52.1	58.4	57.8
Sacramento .....	566.8	588.2	591.4	.9	.7	.7	35.2	38.9	37.9
San Diego .....	883.3	920.8	926.5	.8	.8	.8	57.6	63.2	63.0
San Francisco .....	948.4	959.5	966.4	.9	.9	.9	36.4	37.7	37.7
San Jose .....	794.3	806.9	807.8	.2	.2	.1	32.8	33.5	32.9
Santa Barbara-Santa Maria-Lompoc .....	147.8	149.2	150.7	1.3	1.3	1.3	6.7	7.0	7.0
Santa Rosa-Petaluma .....	127.9	131.8	131.8	.7	.8	.8	8.7	9.4	9.0
Stockton .....	142.8	149.1	147.4	.1	.1	.1	8.3	8.4	8.1
Vallejo-Fairfield-Napa .....	127.5	131.8	132.3	.3	.3	.3	9.3	10.6	10.4
<b>Colorado</b> .....	1,407.4	1,404.3	1,410.8	21.0	20.8	20.9	67.4	60.8	59.1
Boulder-Longmont .....	106.9	107.4	107.6	.3	.3	.3	3.6	3.1	3.0
Denver .....	798.2	793.9	795.4	13.9	13.3	13.2	37.4	34.1	33.0
<b>Connecticut</b> .....	1,665.3	1,681.8	1,696.0	1.6	1.7	1.7	79.7	81.5	80.8
Bridgeport-Milford .....	202.3	203.6	204.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	9.9	9.8
Hartford .....	485.2	492.8	495.5	.3	.4	.3	21.1	22.3	22.3
New Haven-Meriden .....	255.3	260.7	262.4	.3	.4	.4	13.6	14.6	14.6
Stamford .....	128.7	129.4	130.1	.5	.5	.5	5.7	5.8	5.9
Waterbury .....	88.3	90.2	90.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	5.1	5.1
<b>Delaware</b> .....	327.9	336.0	336.8	.1	.1	.1	21.0	22.7	22.2
Wilmington .....	280.0	287.1	288.4	.2	.1	.1	17.5	18.0	17.7
<b>District of Columbia</b> .....	659.4	676.4	679.3	.1	.1	.1	16.0	15.1	15.1
Washington MSA .....	2,108.1	2,174.8	2,189.5	1.3	1.3	1.3	132.3	138.9	139.5
<b>Florida</b> .....	4,980.7	5,113.8	5,174.4	8.7	9.0	9.0	348.0	357.5	357.0
Daytona Beach .....	113.1	116.2	116.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.5	8.8	8.8
Fort Lauderdale-Hollywood-Pompano Beach .....	474.7	487.6	493.6	.4	.4	.4	35.8	35.8	35.8
Fort Myers-Cape Coral .....	110.6	116.6	118.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.3	13.5	13.6
Jacksonville .....	403.5	420.8	424.2	.5	.5	.5	27.5	28.6	28.5
Melbourne-Titusville-Palm Bay .....	146.3	154.0	155.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	8.5	8.4
Miami-Hialeah .....	834.9	842.6	849.3	.9	.9	.9	41.4	41.0	40.8
Orlando .....	484.5	503.9	507.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.4	36.6	36.7
Pensacola .....	126.2	127.2	127.6	.3	.3	.3	9.5	9.0	9.0
Sarasota .....	106.5	109.1	110.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.8	10.6	10.5
Tallahassee .....	110.9	114.4	115.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	6.1	6.1
Tampa-St. Petersburg-Clearwater .....	810.8	824.8	831.7	.6	.6	.6	59.7	59.4	59.5
West Palm Beach-Boca Raton-Delray Beach .....	338.8	352.2	361.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.6	30.2	30.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Alabama</b> .....	373.4	375.9	377.3	72.3	72.7	73.0	340.0	343.5	347.1
Birmingham .....	54.9	56.9	57.1	27.7	28.0	27.9	100.3	102.1	103.2
Huntsville .....	31.6	33.0	33.0	2.9	2.9	2.9	23.9	24.5	24.7
Mobile .....	26.2	25.4	26.1	9.0	9.1	9.2	44.0	44.0	44.5
Montgomery .....	19.2	19.3	19.4	5.0	5.0	5.0	28.6	29.3	29.2
Tuscaloosa .....	9.5	10.0	9.9	1.9	1.9	1.9	12.4	12.6	12.8
<b>Alaska</b> .....	11.8	13.3	12.2	17.1	18.0	17.4	41.7	42.0	41.7
<b>Arizona</b> .....	188.1	189.5	188.5	74.1	73.0	73.4	347.1	347.5	353.5
Phoenix .....	136.8	138.5	137.9	50.9	50.5	50.7	235.0	233.8	238.2
Tucson .....	30.9	30.1	29.7	9.7	9.3	9.4	57.0	57.7	58.6
<b>Arkansas</b> .....	224.4	230.1	230.1	52.7	52.7	52.5	192.5	196.0	196.7
Fayetteville-Springdale .....	12.2	12.6	12.6	4.5	5.2	5.2	11.1	11.7	11.7
Fort Smith .....	27.1	26.1	26.0	3.9	4.1	4.1	15.7	15.5	15.6
Little Rock-North Little Rock .....	33.0	34.8	35.0	16.8	17.2	17.2	56.1	57.4	58.0
Pine Bluff .....	6.4	6.4	6.4	2.6	2.5	2.5	6.8	7.0	7.0
<b>California</b> .....	2,127.5	2,163.8	2,165.3	589.0	590.3	591.1	2,840.1	2,923.0	2,959.7
Anaheim-Santa Ana .....	252.0	258.2	258.6	34.5	34.3	34.4	280.4	282.2	287.8
Bakersfield .....	11.2	11.0	11.2	7.9	8.2	8.2	38.6	38.2	38.7
Fresno .....	22.8	24.5	23.9	11.4	11.5	11.6	54.0	53.2	53.2
Los Angeles-Long Beach .....	916.2	912.7	917.1	209.2	211.6	212.2	937.6	942.6	951.4
Modesto .....	23.4	26.0	25.6	4.5	4.3	4.3	28.2	29.2	29.2
Oakland .....	104.7	106.5	107.0	56.3	57.8	58.0	206.6	207.0	211.9
Oxnard-Ventura .....	30.0	30.7	30.6	10.1	10.0	9.9	51.7	52.7	53.7
Riverside-San Bernardino .....	83.7	85.4	85.4	31.6	31.8	31.9	158.4	161.3	163.1
Sacramento .....	41.2	43.3	43.1	25.9	26.7	26.8	140.7	142.7	145.1
San Diego .....	123.5	124.8	125.5	34.1	34.1	34.4	214.2	223.3	227.1
San Francisco .....	81.0	80.5	81.4	77.1	76.5	76.9	217.3	217.2	220.8
San Jose .....	261.9	269.0	269.2	22.1	22.0	21.9	156.0	154.7	156.3
Santa Barbara-Santa Maria-Lompoc .....	22.2	22.2	22.2	5.1	5.1	5.2	36.0	36.1	36.7
Santa Rosa-Petaluma .....	18.7	19.1	19.0	6.4	6.2	6.2	33.6	34.6	35.0
Stockton .....	22.4	24.1	23.7	8.3	9.3	8.9	34.0	35.5	35.0
Vallejo-Fairfield-Napa .....	11.9	12.4	12.3	4.6	4.7	4.6	30.6	32.1	32.6
<b>Colorado</b> .....	186.0	188.9	189.5	84.6	83.0	82.9	351.0	351.0	353.3
Boulder-Longmont .....	28.8	29.0	28.9	2.3	2.3	2.3	23.4	23.4	23.8
Denver .....	95.0	95.6	95.7	61.7	60.0	59.8	201.9	199.0	200.3
<b>Connecticut</b> .....	383.1	373.3	378.0	74.0	74.0	74.6	379.1	389.2	396.0
Bridgeport-Milford .....	58.7	56.9	56.9	9.2	9.6	9.7	47.7	47.1	47.7
Hartford .....	93.7	93.8	93.9	18.0	18.4	18.6	104.1	104.6	106.5
New Haven-Meriden .....	47.0	45.9	46.1	18.3	18.5	18.6	59.6	61.2	62.0
Stamford .....	23.8	23.3	23.3	5.2	5.4	5.4	31.6	31.1	31.7
Waterbury .....	23.8	23.8	23.8	3.2	3.1	3.1	18.3	18.3	18.6
<b>Delaware</b> .....	70.0	69.3	69.8	13.9	14.4	14.3	73.4	72.3	73.2
Wilmington .....	59.9	57.9	58.4	15.0	15.5	15.4	59.7	60.6	61.5
<b>District of Columbia</b> .....	16.4	16.5	16.5	24.5	24.8	24.8	64.9	66.7	67.2
Washington MSA .....	87.5	87.3	87.6	103.0	109.0	109.7	426.5	431.5	438.4
<b>Florida</b> .....	538.4	538.8	542.6	260.9	262.8	264.6	1,355.9	1,391.3	1,425.7
Daytona Beach .....	11.9	11.9	11.9	3.5	3.5	3.5	33.4	34.3	34.9
Fort Lauderdale-Hollywood-Pompano Beach .....	46.2	46.9	47.1	22.8	23.4	23.7	141.8	144.6	147.0
Fort Myers-Cape Coral .....	5.5	5.6	5.7	5.0	5.1	5.3	32.7	34.1	35.0
Jacksonville .....	39.1	40.5	40.8	28.1	28.7	28.9	109.4	112.8	114.5
Melbourne-Titusville-Palm Bay .....	28.4	30.3	30.4	5.9	6.0	6.0	34.7	35.4	35.7
Miami-Hialeah .....	95.7	96.1	96.4	68.6	67.9	68.3	224.6	225.3	228.9
Orlando .....	54.5	55.0	55.1	25.1	25.9	26.2	127.8	132.5	134.8
Pensacola .....	11.5	11.5	11.5	5.9	6.2	6.2	32.8	33.5	33.6
Sarasota .....	9.0	8.7	8.6	3.6	3.5	3.5	31.7	31.8	32.9
Tallahassee .....	4.7	4.8	4.8	3.1	3.1	3.1	23.2	23.7	23.9
Tampa-St. Petersburg-Clearwater .....	93.1	95.1	95.7	38.8	39.4	39.5	225.4	228.0	231.1
West Palm Beach-Boca Raton-Delray Beach .....	37.1	35.4	36.0	11.9	12.6	12.6	91.5	96.7	100.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Alabama</b> .....	70.0	70.9	70.9	278.7	285.7	286.7	303.4	303.1	304.9
Birmingham .....	29.2	29.4	29.4	93.1	96.6	96.8	61.7	62.4	62.7
Huntsville .....	3.6	3.8	3.8	28.0	30.4	30.2	29.9	29.8	29.9
Mobile .....	8.0	8.0	7.9	35.5	37.3	37.3	28.1	28.5	28.7
Montgomery .....	7.6	7.7	7.7	26.1	26.1	26.2	31.8	31.5	31.9
Tuscaloosa .....	2.1	2.2	2.2	8.3	8.6	8.6	19.4	20.1	20.4
<b>Alaska</b> .....	10.8	10.6	10.6	40.5	41.7	41.1	66.1	67.7	67.5
<b>Arizona</b> .....	95.4	91.4	90.9	351.8	358.1	358.3	249.9	254.3	257.9
Phoenix .....	75.6	72.7	72.2	236.8	241.0	241.1	131.3	131.4	133.6
Tucson .....	12.6	12.1	12.1	66.4	67.5	67.4	52.4	54.0	54.7
<b>Arkansas</b> .....	37.5	38.0	37.9	155.4	162.0	161.6	150.7	153.5	154.8
Fayetteville-Springdale .....	1.5	1.4	1.5	7.3	7.5	7.5	10.6	10.9	10.9
Fort Smith .....	2.6	2.6	2.6	16.9	16.6	16.5	7.7	7.9	7.9
Little Rock-North Little Rock .....	15.8	16.3	16.2	53.4	56.0	56.1	46.6	46.7	46.9
Pine Bluff .....	1.5	1.5	1.5	6.2	6.3	6.4	7.7	7.8	7.8
<b>California</b> .....	813.3	826.7	828.3	2,946.9	3,055.1	3,061.7	1,942.8	1,998.0	2,017.5
Anaheim-Santa Ana .....	91.0	90.3	89.3	266.2	272.8	271.7	117.7	119.0	121.0
Bakersfield .....	6.2	6.2	6.2	32.7	32.3	31.8	41.4	41.4	41.8
Fresno .....	13.3	12.6	12.7	47.7	50.6	50.7	44.9	46.7	47.0
Los Angeles-Long Beach .....	288.7	296.0	296.9	1,063.9	1,092.8	1,095.5	506.1	520.5	523.5
Modesto .....	4.6	4.6	4.6	21.6	22.5	22.3	18.3	18.3	18.5
Oakland .....	54.8	56.2	55.9	189.2	197.1	197.1	161.8	167.0	168.6
Oxnard-Ventura .....	10.3	11.0	11.0	49.5	51.7	51.4	41.1	40.8	41.5
Riverside-San Bernardino .....	26.8	28.1	28.3	146.2	150.3	152.2	124.2	126.9	128.2
Sacramento .....	33.8	35.3	35.4	121.0	128.2	128.4	168.1	172.4	174.0
San Diego .....	61.2	63.1	63.2	232.2	244.7	245.3	159.7	166.8	167.2
San Francisco .....	112.8	113.6	113.9	286.4	296.3	296.4	136.5	136.8	138.4
San Jose .....	34.6	34.8	34.8	199.4	205.6	205.1	87.3	87.1	87.5
Santa Barbara-Santa Maria-Lompoc .....	8.7	8.7	8.7	39.9	40.8	41.0	27.9	28.0	28.6
Santa Rosa-Petaluma .....	8.4	8.7	8.8	28.7	29.5	29.6	22.7	23.5	23.4
Stockton .....	8.6	8.4	8.4	30.1	30.8	30.7	31.0	32.5	32.5
Vallejo-Fairfield-Napa .....	4.5	4.5	4.5	28.8	29.6	29.6	37.5	37.6	38.0
<b>Colorado</b> .....	97.5	96.0	96.1	328.7	331.4	334.4	271.2	272.4	274.6
Boulder-Longmont .....	4.1	4.0	4.0	21.6	22.1	22.2	22.8	23.2	23.1
Denver .....	66.5	65.5	65.5	194.1	198.2	197.7	127.7	128.2	130.2
<b>Connecticut</b> .....	150.3	151.9	151.7	390.1	403.5	403.0	207.4	206.7	210.2
Bridgeport-Milford .....	12.0	12.6	12.6	45.2	47.0	46.8	20.1	20.5	20.7
Hartford .....	78.1	80.0	80.0	108.1	111.5	111.4	61.8	61.8	62.5
New Haven-Meriden .....	15.4	15.8	16.0	69.0	72.2	72.3	32.1	32.1	32.4
Stamford .....	13.3	13.8	13.8	37.7	38.7	38.6	10.9	10.8	10.9
Waterbury .....	4.5	4.5	4.5	21.0	22.2	22.1	12.9	13.2	13.4
<b>Delaware</b> .....	26.9	29.3	29.8	75.0	80.8	80.2	47.6	47.1	47.2
Wilmington .....	24.0	26.0	26.3	65.9	70.7	70.5	37.8	38.3	38.5
<b>District of Columbia</b> .....	37.3	37.7	37.8	235.8	247.5	248.6	264.4	268.1	269.3
Washington MSA .....	126.0	130.4	130.7	671.7	706.8	709.0	559.9	569.8	573.3
<b>Florida</b> .....	366.2	370.9	371.5	1,336.1	1,400.8	1,414.2	766.5	782.7	789.8
Daytona Beach .....	6.6	6.7	6.6	30.6	31.4	31.1	18.6	19.6	19.9
Fort Lauderdale-Hollywood-Pompano Beach .....	40.3	41.6	41.6	128.0	131.9	134.1	59.4	63.0	63.9
Fort Myers-Cape Coral .....	8.3	8.2	8.3	30.9	33.4	33.7	15.8	16.6	16.8
Jacksonville .....	38.0	39.7	39.9	102.6	110.4	111.1	58.3	59.6	60.0
Melbourne-Titusville-Palm Bay .....	5.5	5.8	5.9	42.1	45.8	46.3	21.3	22.1	22.3
Miami-Hialeah .....	67.8	68.7	68.9	224.7	229.4	230.1	111.2	113.3	115.0
Orlando .....	34.1	36.3	36.5	152.2	158.6	159.2	56.2	58.9	59.2
Pensacola .....	5.7	5.7	5.8	30.8	31.6	31.7	29.7	29.4	29.5
Sarasota .....	8.6	8.7	8.6	30.5	32.8	33.2	12.3	13.0	13.0
Tallahassee .....	5.0	5.0	5.0	22.3	23.0	23.1	46.3	48.4	48.7
Tampa-St. Petersburg-Clearwater .....	66.3	67.1	67.3	222.5	229.0	230.9	104.4	106.2	107.1
West Palm Beach-Boca Raton-Delray Beach .....	29.1	28.6	29.1	98.9	105.3	108.6	40.6	43.3	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	Total			Mining			Construction		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Georgia</b> .....	2,803.0	2,813.8	2,822.0	8.4	8.5	8.5	156.0	143.6	143.4
Athens .....	63.8	64.6	64.7	.2	.2	.2	2.4	2.3	2.2
Atlanta .....	1,385.5	1,398.3	1,402.8	1.4	1.4	1.3	73.6	69.9	69.3
Augusta .....	158.4	157.7	158.3	.5	.5	.5	9.8	9.9	10.1
Columbus .....	93.6	92.2	92.1	.1	.1	.1	5.3	5.1	5.1
Macon-Warner Robins .....	119.7	119.4	119.8	.1	.1	.1	4.9	4.9	4.8
Savannah .....	103.9	102.1	102.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	6.5	6.5
<b>Hawaii</b> .....	468.1	469.8	474.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.5	21.0	21.3
Honolulu .....	373.7	373.2	377.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.1	16.6	16.9
<b>Idaho</b> .....	341.9	357.0	355.3	2.6	3.4	3.4	14.0	16.3	15.6
Boise City .....	88.0	93.0	92.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.6	4.8	4.7
<b>Illinois</b> .....	4,965.1	5,077.1	5,117.0	24.0	23.5	23.4	203.9	224.2	219.4
Aurora-Elgin .....	138.4	143.0	144.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	7.4	7.4
Bloomington-Normal .....	57.0	58.5	58.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.8	1.8
Champaign-Urbana-Rantoul .....	86.9	87.7	87.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.5	2.5
Chicago .....	3,063.1	3,126.8	3,146.4	2.6	2.5	2.4	127.1	136.4	133.8
Davenport-Rock Island-Moline .....	156.0	155.5	156.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.7	4.7
Decatur .....	50.5	50.7	50.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	1.9	1.9
Joliet .....	97.9	98.0	98.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.6	5.6	5.6
Lake County .....	189.9	198.9	200.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	10.5	10.4
Peoria .....	134.2	138.0	138.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	5.6	5.6
Rockford .....	125.0	127.4	127.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.7	4.7
Springfield .....	98.6	99.3	99.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.4	3.4
<b>Indiana</b> .....	2,361.3	2,445.6	2,449.8	8.8	8.3	8.1	106.9	121.2	118.3
Anderson .....	48.9	49.3	49.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.5	1.5	1.5
Bloomington .....	53.4	57.0	56.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.2	2.7	2.6
Elkhart-Goshen .....	99.8	104.8	104.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.9	3.0	3.0
Evansville .....	127.5	131.1	131.7	2.3	2.1	2.1	7.4	7.6	7.4
Fort Wayne .....	190.2	199.3	200.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.2	11.6	11.4
Gary-Hammond .....	225.2	233.8	234.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	12.3	14.8	15.0
Indianapolis .....	816.3	838.9	841.1	.8	.8	.8	32.1	34.9	34.9
Lafayette .....	66.0	67.7	67.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.0	3.7	3.6
Muncie .....	51.8	53.4	53.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.1	2.3	2.2
South Bend-Mishawaka .....	114.8	116.9	117.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.4	6.1	6.3
Terre Haute .....	54.4	55.1	55.1	.3	.3	.3	2.1	2.6	2.6
<b>Iowa</b> .....	1,137.5	1,163.6	1,166.7	2.4	2.3	2.3	37.2	39.9	38.0
Cedar Rapids .....	89.2	92.5	92.9	.2	.1	.1	3.3	3.6	3.4
Des Moines .....	213.2	221.4	222.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.7	8.4	6.2
Dubuque .....	43.7	44.5	44.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.3
Sioux City .....	52.2	53.8	54.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	1.9	1.9
Waterloo-Cedar Falls .....	63.0	64.5	65.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.3	2.2
<b>Kansas</b> .....	1,020.4	1,031.4	1,040.1	12.1	11.1	10.9	45.3	43.0	42.3
Topeka .....	86.5	88.2	89.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.3	3.1
Wichita .....	230.9	235.5	236.5	2.5	2.4	2.3	10.0	10.2	10.0
<b>Kentucky</b> .....	1,341.6	1,372.4	1,373.0	38.5	35.3	34.8	62.5	65.8	64.9
Lexington-Fayette .....	176.7	181.3	181.0	.6	.5	.5	10.1	9.4	9.2
Louisville .....	446.9	480.2	460.9	.5	.4	.3	24.6	25.8	25.6
Owensboro .....	34.1	34.6	34.7	.8	.7	.6	2.2	2.1	2.1
<b>Louisiana</b> .....	1,503.6	1,513.3	1,514.8	55.1	54.5	54.4	80.2	63.9	61.4
Alexandria .....	48.3	46.1	46.2	.2	.2	.2	2.4	2.4	2.2
Baton Rouge .....	214.5	216.2	216.5	.8	.8	.8	20.3	21.1	21.1
Houma-Thibodaux .....	52.7	53.7	53.8	5.8	5.8	5.8	1.4	1.8	1.8
Lafayette .....	82.6	84.0	84.8	10.4	10.5	10.8	3.3	3.4	3.6
Monroe .....	54.4	54.2	54.7	.4	.3	.4	2.6	2.5	2.5
New Orleans .....	511.2	518.1	519.3	14.5	15.3	15.5	21.8	25.2	24.4
Shreveport .....	134.2	132.5	132.2	3.2	2.9	2.9	7.5	7.7	7.7
<b>Maine</b> .....	515.1	533.1	533.8	.1	.1	.1	32.6	36.9	36.1
Lewiston-Auburn .....	40.0	41.6	41.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.4	2.4
Portland .....	127.0	130.8	131.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.8	9.8	9.4

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. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>
<b>Georgia</b> .....	575.7	565.2	563.4	177.0	179.3	179.5	700.7	706.3	713.6
Athens .....	15.7	15.5	15.6	1.8	1.7	1.7	13.1	13.2	13.3
Atlanta .....	189.1	181.7	181.2	117.3	121.2	121.2	383.1	384.9	388.9
Augusta .....	36.5	36.7	36.8	5.2	5.1	5.1	34.5	33.3	33.5
Columbus .....	20.3	20.3	20.0	3.6	3.5	3.5	20.9	20.0	20.2
Macon-Warner Robins .....	18.6	18.3	18.0	4.9	4.9	4.9	27.1	27.0	27.2
Savannah .....	17.3	16.7	16.8	9.6	9.0	8.9	25.2	25.3	25.5
<b>Hawaii</b> .....	22.2	22.0	22.0	37.1	36.7	37.0	125.8	124.7	125.8
Honolulu .....	16.5	16.2	16.2	30.6	30.5	30.8	99.1	97.8	98.8
<b>Idaho</b> .....	56.3	59.8	59.5	18.1	19.2	18.9	86.3	88.3	88.7
Boise City .....	11.5	12.8	12.8	5.2	5.3	5.2	23.0	24.4	24.4
<b>Illinois</b> .....	936.4	948.7	950.3	302.0	304.0	303.8	1,244.5	1,279.6	1,288.6
Aurora-Elgin .....	36.6	37.6	37.5	3.1	3.1	3.2	38.9	39.8	40.5
Bloomington-Normal .....	5.2	6.3	6.3	2.6	2.6	2.6	12.8	12.8	12.8
Champaign-Urbana-Rantoul .....	7.7	8.2	8.4	2.3	2.3	2.3	19.3	19.3	19.4
Chicago .....	553.9	556.0	555.3	195.6	196.8	196.6	775.1	785.4	791.8
Davenport-Rock Island-Moline .....	33.0	32.4	32.6	8.2	8.2	8.2	42.6	42.5	42.6
Decatur .....	12.9	13.1	13.2	4.9	4.8	4.8	11.9	11.7	11.8
Joliet .....	19.7	19.9	19.9	8.4	8.3	8.3	23.1	22.8	23.1
Lake County .....	42.7	44.1	44.0	6.9	7.4	7.4	51.7	54.1	55.0
Peoria .....	32.1	34.8	34.9	6.8	6.7	6.7	33.2	33.2	33.3
Rockford .....	42.1	44.8	44.5	4.3	4.4	4.4	29.1	29.0	28.9
Springfield .....	3.8	3.9	3.9	4.9	5.0	5.0	22.2	22.1	22.1
<b>Indiana</b> .....	626.2	640.2	640.6	122.1	131.5	131.5	562.6	576.9	584.4
Anderson .....	17.0	16.8	16.7	1.5	1.6	1.6	11.4	11.5	11.7
Bloomington .....	9.1	10.1	10.2	1.7	1.8	1.8	12.0	12.6	12.6
Elkhart-Goshen .....	53.7	57.0	56.6	2.8	2.9	2.9	18.6	19.0	19.1
Evansville .....	30.8	31.0	31.2	6.6	6.8	6.7	33.8	35.0	35.6
Fort Wayne .....	51.1	52.9	53.0	12.2	12.9	12.9	47.4	49.0	50.2
Gary-Hammond .....	56.2	57.2	57.3	14.9	15.3	15.3	53.2	55.2	55.6
Indianapolis .....	107.5	106.2	106.1	37.4	38.5	38.6	161.0	166.2	168.2
Lafayette .....	12.0	12.6	12.6	2.0	2.0	2.0	13.2	13.3	13.2
Muncie .....	10.3	10.8	11.0	2.5	2.5	2.5	13.0	13.2	13.2
South Bend-Mishawaka .....	24.3	23.2	23.3	5.0	5.3	5.3	30.6	31.3	31.7
Terre Haute .....	10.3	9.9	9.9	2.8	2.9	2.9	14.7	15.3	15.3
<b>Iowa</b> .....	220.3	228.3	228.7	53.7	55.3	55.1	288.3	294.4	297.4
Cedar Rapids .....	23.3	24.2	24.4	6.0	6.7	6.6	21.6	22.1	22.6
Des Moines .....	25.2	26.5	26.1	12.3	12.6	12.6	56.2	58.9	59.9
Dubuque .....	12.8	13.1	13.2	1.7	1.9	1.8	9.9	10.0	10.1
Sioux City .....	10.3	11.0	11.1	3.1	3.2	3.3	13.6	14.2	14.2
Waterloo-Cedar Falls .....	14.2	15.5	15.8	1.7	1.8	1.8	15.1	15.4	15.6
<b>Kansas</b> .....	178.1	181.5	181.8	61.7	61.6	61.7	257.8	259.4	260.7
Topeka .....	8.4	8.3	8.6	6.6	6.3	6.3	19.9	20.7	20.8
Wichita .....	60.8	61.3	61.7	10.8	10.5	10.7	53.1	54.3	54.4
<b>Kentucky</b> .....	263.0	273.5	275.2	67.9	67.8	67.4	325.7	335.1	337.7
Lexington-Fayette .....	28.1	30.1	30.3	7.8	8.0	8.2	42.4	45.4	45.4
Louisville .....	85.9	87.5	88.0	29.2	30.8	30.9	112.6	116.6	117.3
Owensboro .....	5.9	6.1	6.3	2.1	2.1	2.1	8.8	8.8	9.0
<b>Louisiana</b> .....	167.9	171.4	171.5	104.4	105.6	105.6	367.5	368.0	371.0
Alexandria .....	3.4	3.3	3.3	2.2	2.2	2.2	11.2	11.1	11.3
Baton Rouge .....	18.7	18.8	19.0	10.2	10.4	10.3	51.7	52.7	53.1
Houma-Thibodaux .....	4.6	4.6	4.5	5.7	6.2	6.2	13.6	13.5	13.6
Lafayette .....	6.1	6.1	6.1	5.6	5.9	5.9	22.3	23.2	23.6
Monroe .....	7.0	7.3	7.3	2.7	2.6	2.7	14.8	14.1	14.2
New Orleans .....	42.5	43.0	43.1	43.4	44.5	44.7	135.2	132.9	134.2
Shreveport .....	17.5	17.3	17.0	8.3	8.0	8.0	32.7	31.8	32.0
<b>Maine</b> .....	105.2	109.3	109.8	20.6	21.7	21.5	128.8	131.2	131.7
Lewiston-Auburn .....	10.5	10.3	10.1	1.4	1.4	1.4	9.8	10.6	10.7
Portland .....	16.2	16.9	17.2	6.0	5.6	5.5	37.2	39.0	39.9

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Georgia</b> .....	156.4	158.1	158.2	545.6	560.5	559.9	483.1	492.4	495.4
Athens .....	1.9	1.9	2.0	9.6	10.2	10.1	19.1	19.6	19.6
Atlanta .....	99.0	100.4	100.7	324.5	334.4	334.4	197.6	204.4	205.7
Augusta .....	6.2	6.0	6.1	32.3	32.5	32.5	33.4	33.7	33.7
Columbus .....	6.3	6.0	6.0	16.3	16.7	16.7	20.8	20.6	20.6
Macon-Warner Robins .....	7.6	7.8	7.9	22.9	22.6	22.6	33.6	33.9	34.4
Savannah .....	4.4	4.3	4.2	23.9	24.0	24.2	16.3	16.4	16.3
<b>Hawaii</b> .....	34.3	34.5	34.6	129.8	132.8	132.8	98.4	98.1	100.5
Honolulu .....	28.7	28.9	29.0	99.8	101.1	101.2	82.9	82.1	84.4
<b>Idaho</b> .....	19.1	19.4	19.5	69.3	72.0	71.6	76.2	78.6	78.1
Boise City .....	7.4	7.7	7.8	19.1	20.1	19.7	17.2	17.9	17.7
<b>Illinois</b> .....	359.1	363.7	363.0	1,163.4	1,204.0	1,204.4	731.8	729.4	764.1
Aurora-Elgin .....	6.4	6.6	6.6	30.9	32.9	33.3	15.6	15.5	15.5
Bloomington-Normal .....	9.4	9.6	9.6	11.7	12.0	12.0	13.5	13.4	13.4
Champaign-Urbana-Rantoul .....	3.3	3.4	3.4	16.2	16.5	16.3	35.6	35.5	35.6
Chicago .....	258.8	264.5	264.1	791.5	820.2	819.7	358.5	365.0	382.5
Davenport-Rock Island-Moline .....	8.1	8.2	8.2	31.4	31.7	31.7	28.0	27.8	28.3
Decatur .....	2.7	2.7	2.7	10.5	10.7	10.7	5.6	5.8	5.8
Joliet .....	3.8	3.8	3.8	20.0	20.0	20.1	17.0	17.3	17.2
Lake County .....	6.8	6.8	6.9	41.0	43.6	43.1	30.8	31.8	33.3
Peoria .....	7.0	7.0	7.0	33.6	34.2	34.2	16.2	16.5	16.5
Rockford .....	5.4	5.3	5.4	26.7	26.9	27.0	12.5	12.3	12.4
Springfield .....	7.9	8.0	8.0	24.0	23.8	23.9	32.3	33.0	33.2
<b>Indiana</b> .....	116.3	120.2	120.4	460.0	480.9	478.5	358.4	366.4	367.8
Anderson .....	1.6	1.7	1.7	9.9	10.0	10.0	5.9	6.2	6.3
Bloomington .....	1.8	1.9	2.0	8.1	8.6	8.6	18.5	19.1	19.1
Elkhart-Goshen .....	2.6	2.7	2.8	13.4	14.2	14.1	5.9	6.0	6.0
Evansville .....	5.2	5.4	5.4	29.2	30.7	30.7	12.2	12.6	12.7
Fort Wayne .....	12.2	12.1	12.1	39.1	41.8	41.7	18.1	19.0	19.0
Gary-Hammond .....	8.4	8.5	8.5	48.2	50.6	50.7	32.0	32.1	32.2
Indianapolis .....	46.3	48.8	48.8	139.2	148.4	148.1	92.0	95.0	95.6
Lafayette .....	3.0	3.2	3.2	11.5	11.5	11.4	21.3	21.4	21.5
Muncie .....	1.7	1.7	1.7	10.6	11.0	10.9	11.7	11.9	12.1
South Bend-Mishawaka .....	6.3	6.4	6.5	31.5	33.1	33.0	11.7	11.5	11.6
Terre Haute .....	2.0	2.1	2.1	11.2	11.0	11.0	11.0	11.1	11.1
<b>Iowa</b> .....	65.2	67.2	67.3	250.5	256.8	256.9	219.9	219.4	221.0
Cedar Rapids .....	4.8	4.9	4.8	19.4	20.5	20.5	10.6	10.4	10.5
Des Moines .....	27.8	30.2	30.2	53.0	54.7	55.0	29.8	29.9	30.1
Dubuque .....	1.4	1.5	1.5	12.6	12.9	12.9	3.8	3.6	3.5
Sioux City .....	2.7	2.6	2.6	14.1	14.4	14.6	6.4	6.5	6.6
Waterloo-Cedar Falls .....	2.9	2.7	2.7	14.3	14.2	14.1	12.9	12.5	12.8
<b>Kansas</b> .....	56.4	57.1	57.2	203.6	211.8	212.0	205.4	205.9	213.5
Topeka .....	6.3	6.6	6.7	20.7	21.3	21.3	20.8	21.6	22.5
Wichita .....	11.4	11.4	11.3	54.7	57.4	57.6	27.6	28.0	28.5
<b>Kentucky</b> .....	60.9	61.2	61.0	277.9	290.0	288.2	245.2	243.7	243.8
Lexington-Fayette .....	9.3	9.4	9.5	42.2	41.9	41.3	36.2	36.6	36.6
Louisville .....	28.9	29.3	29.1	103.4	107.7	107.6	61.8	62.1	62.1
Owensboro .....	1.4	1.5	1.5	7.7	8.1	7.9	5.2	5.2	5.2
<b>Louisiana</b> .....	84.3	84.0	84.0	328.2	333.6	334.0	316.0	312.3	312.9
Alexandria .....	2.6	2.6	2.6	11.3	11.7	11.7	13.0	12.6	12.7
Baton Rouge .....	13.5	13.6	13.5	43.6	44.0	43.9	55.7	54.8	54.8
Houma-Thibodaux .....	2.3	2.1	2.1	8.6	9.1	9.2	10.7	10.6	10.6
Lafayette .....	3.8	3.5	3.5	18.2	18.5	18.4	12.9	12.9	12.9
Monroe .....	4.6	4.5	4.5	11.6	11.8	11.8	10.7	11.1	11.3
New Orleans .....	34.1	33.5	33.3	134.6	137.9	138.0	85.1	85.8	86.1
Shreveport .....	7.2	6.9	6.9	32.5	32.8	32.3	25.3	25.1	25.4
<b>Maine</b> .....	24.9	25.6	25.4	109.1	114.3	112.5	93.8	94.0	96.7
Lewiston-Auburn .....	2.2	2.4	2.3	10.0	10.4	10.5	3.8	4.1	4.1
Portland .....	12.6	12.7	12.7	29.0	30.5	30.3	16.2	16.3	16.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Maryland</b> .....	2,045.9	2,072.4	2,079.9	1.9	1.9	1.9	153.7	158.0	156.4
Baltimore MSA .....	1,098.8	1,101.2	1,107.3	.3	.3	.3	73.8	78.0	76.3
Baltimore City .....	460.7	462.3	463.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.6	20.3	20.5
Suburban Maryland-D.C. ....	724.7	737.3	741.5	.7	.7	.7	63.3	64.4	64.2
<b>Massachusetts</b> .....	3,092.2	3,152.0	3,165.8	1.9	2.0	2.0	145.5	161.9	160.2
Boston .....	1,747.7	1,764.9	1,775.1	1.0	1.2	1.2	72.7	78.1	77.0
Brockton .....	73.7	75.4	76.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	4.5	4.4
Fall River .....	56.5	57.5	57.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	3.0	3.0
Fitchburg-Leominster .....	40.3	40.6	40.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	3.0	3.0
Lawrence-Haverhill .....	163.2	164.7	164.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.3	8.8	8.4
Lowell .....	107.0	107.7	108.4	.2	.1	.1	5.8	6.6	6.8
New Bedford .....	67.6	69.2	69.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.8	3.8
Springfield .....	242.3	243.3	244.3	.1	.1	.1	10.3	11.2	11.2
Worcester .....	204.0	210.6	212.2	.1	.2	.2	9.9	11.1	10.9
<b>Michigan</b> .....	3,777.5	3,809.0	3,848.3	10.0	10.2	10.2	130.5	145.9	141.5
Ann Arbor .....	171.5	176.2	176.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.6	7.2	6.9
Battle Creek .....	57.7	59.3	59.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.4	2.3
Benton Harbor .....	64.9	68.2	66.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.6	1.5
Detroit .....	1,877.0	1,891.3	1,915.5	.8	.8	.9	63.2	69.1	67.0
Flint .....	172.4	168.5	169.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.8	4.5
Grand Rapids .....	320.7	331.8	332.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.8	16.3	16.1
Kalamazoo .....	107.4	109.5	110.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.5	3.5
Lansing-East Lansing .....	208.3	212.9	212.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	6.4	6.4
Muskegon .....	56.8	57.9	57.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.2
Saginaw-Bay City-Midland .....	157.8	161.6	162.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	7.3	7.4
<b>Minnesota</b> .....	2,004.8	2,067.6	2,066.8	6.7	7.4	7.2	67.5	87.8	82.8
Duluth .....	90.9	91.5	91.7	4.4	4.7	4.6	4.7	3.8	3.7
Minneapolis-St. Paul .....	1,310.5	1,334.1	1,334.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	58.4	59.1	56.9
Rochester .....	57.9	60.0	60.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.0	2.1	2.0
St. Cloud .....	72.0	74.1	74.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.5	4.1	4.0
<b>Mississippi</b> .....	883.9	895.7	897.3	6.3	6.2	6.1	35.0	34.4	34.1
Jackson .....	180.0	183.4	184.1	1.1	1.1	1.1	8.7	8.7	8.6
<b>Missouri</b> .....	2,219.3	2,242.6	2,246.2	5.6	5.6	5.5	103.2	105.2	101.9
Kansas City .....	739.6	742.0	743.2	.5	.5	.5	37.7	38.6	37.8
St. Louis .....	1,137.7	1,148.3	1,152.5	3.5	3.5	3.5	57.9	58.0	55.4
Springfield .....	110.7	115.3	114.8	.1	.1	.1	5.4	6.1	5.9
<b>Montana</b> .....	277.1	280.3	277.9	5.7	6.2	6.0	9.5	10.1	9.6
<b>Nebraska</b> .....	670.3	675.9	681.2	1.7	1.6	1.6	24.7	25.2	24.8
Lincoln .....	112.8	114.5	115.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.3	4.3
Omaha .....	302.4	309.6	311.0	.2	.2	.2	12.4	12.7	12.6
<b>Nevada</b> .....	512.1	544.0	546.5	8.8	11.0	11.1	30.4	35.9	35.6
Las Vegas .....	293.5	309.8	313.3	.3	.3	.3	18.4	21.4	21.4
Reno .....	135.8	141.8	141.2	1.0	1.2	1.1	7.2	8.9	8.7
<b>New Hampshire</b> .....	522.8	547.6	547.3	.7	.7	.7	38.9	41.3	40.1
Nashua .....	95.2	98.1	96.7	.1	.1	.1	5.5	5.6	5.7
Portsmouth-Dover-Rochester .....	111.0	117.4	116.2	.1	.1	.1	6.3	6.5	5.9
<b>New Jersey</b> .....	3,649.6	3,718.0	3,726.8	2.4	2.5	2.5	179.9	192.9	191.2
Atlantic City .....	157.9	167.8	165.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.8	10.6	10.9
Bergen-Passaic .....	682.3	695.0	698.5	.1	.2	.2	33.0	34.1	34.0
Camden .....	433.6	446.4	448.8	.1	.1	.1	26.8	29.7	29.5
Jersey City .....	247.0	250.6	251.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.8	8.6
Middlesex-Somerset-Hunterdon .....	526.8	543.7	546.4	.6	.7	.7	24.0	25.8	25.9
Monmouth-Ocean .....	322.9	336.1	335.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.9	25.6	25.4
Newark .....	969.0	981.0	984.6	.7	.7	.7	41.0	45.2	45.0
Trenton .....	198.8	201.7	202.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	6.0	5.8

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>
<b>Maryland</b> .....	207.1	207.0	207.3	94.0	95.0	95.3	527.7	526.9	532.6
Baltimore MSA .....	131.9	130.8	130.6	53.9	53.3	53.2	273.1	271.1	274.2
Baltimore City .....	44.8	44.4	44.4	28.2	27.8	27.6	98.8	98.2	98.6
Suburban Maryland-D.C. ....	35.4	35.9	35.7	28.0	28.3	28.4	196.8	195.9	199.1
<b>Massachusetts</b> .....	595.9	579.0	579.8	131.9	132.6	133.3	730.3	734.4	742.2
Boston .....	281.6	273.0	272.9	76.0	76.2	76.6	393.6	388.5	394.0
Brockton .....	11.5	11.5	11.8	5.2	5.3	5.3	22.6	23.3	23.8
Fall River .....	17.1	15.9	15.9	1.7	2.0	2.0	15.1	15.9	16.2
Fitchburg-Leominster .....	11.6	11.5	11.7	1.6	1.7	1.7	10.2	10.4	10.5
Lawrence-Haverhill .....	50.7	49.4	49.1	7.1	6.7	6.7	36.9	38.3	38.7
Lowell .....	36.0	35.3	35.5	3.8	3.4	3.4	22.7	22.9	23.1
New Bedford .....	19.2	18.6	18.5	2.9	3.1	3.2	16.6	17.0	17.3
Springfield .....	51.6	51.4	51.2	9.7	10.1	10.1	57.7	58.2	59.0
Worcester .....	46.7	46.1	46.4	8.8	8.6	8.7	48.6	48.7	49.6
<b>Michigan</b> .....	962.1	943.1	948.0	150.1	152.9	153.5	880.5	886.7	892.4
Ann Arbor .....	39.5	38.9	38.6	4.2	4.4	4.3	30.0	31.4	31.9
Battle Creek .....	15.0	15.4	15.4	1.8	1.8	1.8	11.7	12.4	12.7
Benton Harbor .....	21.6	21.0	21.2	2.3	2.4	2.4	13.5	14.1	14.1
Detroit .....	463.7	454.1	458.3	85.6	86.5	86.6	449.9	450.2	453.8
Flint .....	53.5	48.8	49.0	4.5	4.7	4.7	46.2	47.2	48.2
Grand Rapids .....	97.4	99.6	99.6	11.2	11.2	11.2	83.5	86.8	87.9
Kalamazoo .....	30.0	30.3	30.4	3.3	3.4	3.5	24.2	24.8	25.2
Lansing-East Lansing .....	34.7	33.2	32.7	5.8	5.6	5.5	43.0	44.5	45.1
Muskegon .....	17.4	17.3	17.2	2.3	2.4	2.4	12.6	12.9	13.0
Saginaw-Bay City-Midland .....	44.1	44.7	44.7	6.8	7.0	7.1	38.1	37.9	38.3
<b>Minnesota</b> .....	378.4	392.7	391.8	102.8	104.1	104.4	497.6	514.2	518.0
Duluth .....	7.7	7.8	7.8	5.8	6.1	6.1	22.2	22.1	22.3
Minneapolis-St. Paul .....	256.6	261.9	261.8	71.8	72.2	72.4	323.4	326.7	329.0
Rochester .....	10.9	11.5	11.6	1.7	1.7	1.7	11.6	11.8	11.9
St. Cloud .....	11.9	12.6	12.5	3.3	3.7	3.7	21.8	22.7	23.0
<b>Mississippi</b> .....	232.8	234.5	235.2	42.7	44.2	43.6	189.8	191.9	194.0
Jackson .....	21.0	21.3	21.2	12.7	13.1	13.1	43.1	43.5	44.1
<b>Missouri</b> .....	420.9	420.8	425.4	143.9	144.5	144.7	549.5	556.4	559.1
Kansas City .....	110.3	108.9	109.1	56.6	56.1	56.1	193.3	193.3	194.5
St. Louis .....	219.0	221.3	225.7	74.3	75.2	75.4	279.9	278.9	282.1
Springfield .....	20.9	21.5	21.4	7.1	7.6	7.5	31.0	32.1	32.3
<b>Montana</b> .....	21.4	21.6	21.1	19.3	19.4	19.5	73.1	73.7	73.9
<b>Nebraska</b> .....	90.7	94.0	93.8	43.8	44.8	45.7	172.6	172.5	173.7
Lincoln .....	13.3	14.2	14.3	5.9	6.0	5.9	26.1	25.6	26.0
Omaha .....	34.8	36.2	36.2	23.4	24.5	25.3	77.1	77.9	78.1
<b>Nevada</b> .....	23.9	24.3	24.4	28.3	28.8	29.1	105.1	109.7	111.2
Las Vegas .....	8.9	9.1	9.1	16.2	16.4	16.7	62.0	65.0	66.2
Reno .....	8.1	7.9	8.0	9.3	9.4	9.4	30.9	31.5	32.1
<b>New Hampshire</b> .....	120.4	122.5	123.2	17.1	17.5	17.4	132.7	138.0	139.6
Nashua .....	37.4	37.1	37.2	2.1	2.2	2.2	21.6	21.1	21.6
Portsmouth-Dover-Rochester .....	20.6	21.3	21.4	2.9	3.3	3.2	28.9	32.0	32.4
<b>New Jersey</b> .....	675.3	672.3	670.5	243.9	248.3	247.7	880.2	884.1	891.9
Atlantic City .....	8.5	8.2	8.1	6.0	6.2	6.2	31.8	34.8	33.9
Bergen-Passaic .....	160.8	161.0	160.0	28.7	28.8	28.9	199.5	198.9	202.4
Camden .....	72.1	72.7	72.9	18.4	19.3	19.1	118.9	121.5	123.5
Jersey City .....	49.6	48.8	48.2	31.7	31.1	31.2	61.7	62.2	62.6
Middlesex-Somerset-Hunterdon .....	115.2	117.9	118.2	44.1	45.0	45.2	129.7	132.0	133.2
Monmouth-Ocean .....	30.3	30.0	30.0	16.5	17.1	17.2	88.7	89.9	90.2
Newark .....	181.1	178.1	177.8	82.0	80.0	79.7	200.6	201.1	202.9
Trenton .....	31.4	31.0	31.0	6.7	6.9	6.9	32.5	33.0	33.4

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Maryland</b> .....	125.7	128.1	128.6	542.1	552.9	552.5	393.7	402.6	405.3
Baltimore MSA .....	75.4	75.4	75.9	287.2	290.5	291.2	203.3	203.8	205.6
Baltimore City .....	44.1	44.6	44.9	141.0	142.5	142.6	84.2	84.4	84.9
Suburban Maryland-D.C. ....	41.4	43.1	43.3	208.8	212.6	212.3	150.2	156.4	157.8
<b>Massachusetts</b> .....	219.5	229.5	230.5	862.5	906.9	908.0	404.7	405.7	409.8
Boston .....	152.3	155.7	156.7	563.6	580.3	582.8	206.9	211.9	213.9
Brockton .....	3.0	3.1	3.1	15.3	15.7	15.7	12.1	12.0	11.9
Fall River .....	3.1	3.3	3.3	10.2	10.8	10.9	6.7	6.6	6.6
Fitchburg-Leominster .....	1.8	1.9	1.9	8.0	8.1	7.9	4.4	4.0	4.2
Lawrence-Haverhill .....	6.4	6.5	6.5	33.1	34.4	34.4	20.7	20.8	21.0
Lowell .....	4.2	4.3	4.3	20.6	20.9	21.0	13.7	14.2	14.4
New Bedford .....	2.5	2.7	2.7	13.0	13.7	13.6	10.3	10.3	10.7
Springfield .....	16.3	16.4	16.4	57.7	59.0	59.2	38.9	36.9	37.1
Worcester .....	14.2	14.9	15.0	50.5	55.3	55.6	25.2	25.7	25.8
<b>Michigan</b> .....	178.3	184.5	184.3	822.1	847.7	842.9	643.9	638.0	675.5
Ann Arbor .....	4.7	4.7	4.7	33.4	35.4	35.3	54.0	54.0	54.2
Battle Creek .....	3.3	3.4	3.3	12.2	12.2	12.3	11.5	11.6	11.6
Benton Harbor .....	2.6	2.7	2.7	14.7	15.4	15.3	8.6	8.8	8.8
Detroit .....	102.6	107.4	107.4	463.0	477.3	476.8	248.2	245.8	264.9
Flint .....	5.9	5.9	5.9	31.5	31.4	31.2	26.6	25.8	26.1
Grand Rapids .....	13.9	14.2	14.2	67.4	70.3	70.1	32.2	32.9	32.9
Kalamazoo .....	4.9	5.1	5.2	23.5	23.6	23.6	18.2	18.7	18.8
Lansing-East Lansing .....	12.0	12.4	12.5	37.8	40.4	40.1	69.5	70.2	69.6
Muskegon .....	1.3	1.3	1.3	11.7	12.4	12.2	9.2	9.1	9.2
Saginaw-Bay City-Midland .....	6.0	6.3	6.3	33.7	35.9	36.0	22.0	22.2	22.4
<b>Minnesota</b> .....	120.7	123.6	123.1	484.1	507.4	504.9	326.9	330.4	334.5
Duluth .....	3.1	3.2	3.2	20.5	21.5	21.3	22.4	22.3	22.6
Minneapolis-St. Paul .....	94.1	96.5	96.6	330.0	337.1	337.1	177.7	179.9	180.5
Rochester .....	1.5	1.7	1.7	24.1	25.1	25.1	6.1	6.2	6.3
St. Cloud .....	2.4	2.4	2.4	14.8	15.3	15.2	13.4	13.2	13.4
<b>Mississippi</b> .....	38.7	39.0	39.0	140.5	144.1	143.4	198.0	201.3	201.8
Jackson .....	14.4	14.4	14.4	39.5	41.1	41.0	39.5	40.4	40.6
<b>Missouri</b> .....	134.1	135.2	135.0	509.1	521.3	517.2	353.0	353.6	357.4
Kansas City .....	57.8	58.2	58.2	170.1	173.9	173.6	111.5	112.5	113.4
St. Louis .....	73.7	73.3	72.9	286.2	295.7	293.9	143.2	142.4	143.6
Springfield .....	4.7	4.7	4.6	27.4	29.0	28.8	14.1	14.2	14.2
<b>Montana</b> .....	12.9	12.5	12.4	64.2	66.6	65.9	71.0	70.2	69.5
<b>Nebraska</b> .....	47.5	48.3	48.5	150.2	149.5	149.8	139.1	140.0	143.3
Lincoln .....	8.4	8.9	8.9	23.5	23.9	23.5	31.3	31.6	33.0
Omaha .....	28.3	28.7	28.7	80.2	83.0	83.1	46.0	46.4	46.8
<b>Nevada</b> .....	23.9	25.3	25.3	225.3	239.7	240.4	66.4	69.3	69.4
Las Vegas .....	14.6	15.7	15.8	139.3	146.5	148.4	33.8	35.4	35.4
Reno .....	6.9	7.0	6.9	55.6	58.3	57.6	16.8	17.4	17.4
<b>New Hampshire</b> .....	32.5	33.6	33.7	114.4	123.5	121.1	65.9	70.5	71.5
Nashua .....	4.0	4.1	4.0	17.7	18.8	18.6	6.8	7.1	7.3
Portsmouth-Dover-Rochester .....	6.7	6.7	6.8	19.8	22.3	20.9	25.7	25.2	25.5
<b>New Jersey</b> .....	230.3	237.8	238.2	886.7	921.4	918.2	550.9	558.7	566.6
Atlantic City .....	7.2	7.5	7.4	69.5	76.2	74.3	24.0	24.2	24.4
Bergen-Passaic .....	38.5	40.3	40.4	153.5	161.9	161.8	68.2	69.8	70.8
Camden .....	25.4	26.4	26.6	99.6	102.8	102.6	72.3	73.9	74.5
Jersey City .....	12.9	13.8	14.0	42.7	44.1	44.6	40.6	42.0	42.2
Middlesex-Somerset-Hunterdon .....	35.7	36.4	36.3	105.6	112.8	112.7	71.9	73.1	74.2
Monmouth-Ocean .....	17.9	18.2	18.2	86.2	92.2	90.4	61.2	62.9	63.7
Newark .....	77.9	79.6	79.9	250.1	261.0	261.2	135.6	135.3	137.4
Trenton .....	9.5	9.6	9.6	58.0	59.7	59.9	55.2	55.5	55.9

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	Total			Mining			Construction		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>New Mexico</b> .....	537.0	550.4	554.1	15.7	15.4	15.4	31.2	30.6	30.3
Albuquerque .....	235.0	239.7	239.9	.2	.1	.1	15.8	15.8	15.5
Las Cruces .....	41.2	42.4	42.8	.1	.1	.1	2.1	2.2	2.1
Santa Fe .....	54.7	56.1	56.3	.1	.1	.1	2.5	2.6	2.5
<b>New York</b> .....	8,200.3	8,306.6	8,351.3	6.2	6.3	6.2	350.1	370.1	365.0
Albany-Schenectady-Troy .....	414.3	420.4	421.6	.4	.5	.4	21.1	21.4	21.0
Binghamton .....	123.6	124.3	125.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.7	5.7	5.6
Buffalo .....	447.5	453.8	454.8	.4	.3	.3	18.6	19.4	18.4
Elmira .....	40.0	41.5	42.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.9	1.9
Nassau-Suffolk .....	1,152.4	1,160.9	1,168.4	.2	.2	.2	64.3	65.0	65.0
New York PMSA .....	4,173.1	4,191.0	4,219.2	1.2	1.2	1.2	159.9	165.1	165.0
New York City .....	3,635.7	3,651.5	3,675.7	.6	.6	.6	123.9	129.3	129.4
Niagara Falls .....	83.6	84.2	84.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.8	3.7
Orange County .....	104.1	106.8	106.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.1	7.0	7.0
Poughkeepsie .....	119.7	122.4	123.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.4	7.1	7.0
Rochester .....	475.4	481.7	482.9	.8	.7	.8	20.5	20.7	20.0
Rockland County .....	99.4	99.8	100.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.8	5.4	5.4
Syracuse .....	308.9	310.6	311.6	.2	.2	.2	17.1	18.2	17.6
Utica-Rome .....	123.9	126.6	125.9	.2	.2	.2	4.4	4.3	4.0
Westchester County .....	419.4	420.8	423.7	.3	.3	.3	28.6	28.7	28.4
<b>North Carolina</b> .....	2,924.7	2,996.3	3,010.2	5.0	5.1	5.0	162.2	170.7	170.6
Asheville .....	78.8	80.4	80.8	.1	.1	.1	4.2	4.5	4.4
Charlotte-Gastonia-Rock Hill .....	593.5	607.5	609.7	.4	.4	.4	35.6	39.0	39.1
Greensboro-Winston-Salem-High Point .....	471.5	474.8	477.1	.3	.3	.3	24.9	25.6	25.5
Raleigh-Durham .....	389.3	397.9	399.6	.4	.4	.4	21.7	22.5	22.5
<b>North Dakota</b> .....	255.6	262.0	259.7	4.5	4.3	4.2	11.1	11.7	10.4
Bismarck .....	36.6	37.8	37.6	.2	.2	.2	1.6	1.7	1.6
Fargo-Moorhead .....	72.6	75.6	75.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	4.1	3.7
Grand Forks .....	30.5	31.3	31.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.4
<b>Ohio</b> .....	4,674.2	4,770.6	4,845.1	20.8	20.5	20.4	192.7	212.4	206.2
Akron .....	271.6	276.1	280.1	.5	.6	.6	9.6	10.6	10.3
Canton .....	158.7	162.8	164.2	1.0	1.1	1.1	7.0	8.2	8.0
Cincinnati .....	693.1	711.4	718.9	.5	.6	.6	32.3	35.6	34.9
Cleveland .....	908.5	924.6	933.0	1.2	1.1	1.1	30.5	31.9	31.2
Columbus .....	674.2	694.7	703.5	1.0	1.0	1.0	29.2	32.2	31.4
Dayton-Springfield .....	436.6	445.9	451.4	.4	.4	.4	17.7	20.2	19.7
Toledo .....	287.9	296.6	299.5	.2	.2	.2	11.9	13.8	13.4
Youngstown-Warren .....	191.9	198.7	200.6	.7	.7	.7	8.0	9.3	8.8
<b>Oklahoma</b> .....	1,108.7	1,110.8	1,107.1	46.5	43.1	42.7	33.3	31.8	30.8
Enid .....	21.7	21.4	21.6	1.0	.9	.9	.6	.6	.6
Lawton .....	33.7	32.8	33.3	.2	.2	.2	1.1	1.1	1.2
Oklahoma City .....	403.8	400.6	400.8	11.2	10.2	10.2	12.9	12.4	11.8
Tulsa .....	289.0	291.9	291.6	15.4	14.9	15.0	9.6	9.4	9.3
<b>Oregon</b> .....	1,121.4	1,175.2	1,176.8	1.5	1.5	1.5	35.9	41.1	38.3
Eugene-Springfield .....	106.9	111.5	112.6	.1	.2	.2	3.4	3.6	3.4
Portland .....	569.4	584.5	588.3	.5	.5	.5	20.4	21.9	20.9
Salem .....	98.4	103.0	101.3	.1	.1	.1	3.1	3.6	3.4
<b>Pennsylvania</b> .....	5,016.3	5,115.1	5,123.1	30.9	30.0	29.8	234.9	256.1	250.0
Allentown-Bethlehem .....	274.2	279.8	280.5	.6	.6	.6	14.2	15.4	15.6
Altoona .....	51.6	52.6	52.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.8	2.9	2.8
Beaver County .....	51.0	52.6	52.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.8	5.0	5.1
Erie .....	112.8	114.9	115.4	.2	.2	.2	3.7	4.0	3.9
Harrisburg-Lebanon-Carlisle .....	298.4	304.2	303.2	.3	.3	.3	12.6	13.5	12.9
Johnstown .....	78.8	80.1	79.7	3.6	3.6	3.5	2.9	3.1	2.9
Lancaster .....	182.7	188.3	188.2	.4	.4	.4	11.0	12.0	12.0
Philadelphia PMSA .....	2,195.1	2,207.1	2,222.6	1.1	1.1	1.1	109.7	117.2	117.3
Philadelphia City .....	789.7	781.7	785.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	18.6	18.6	18.8
Pittsburgh .....	869.8	876.9	876.1	5.9	5.5	5.5	42.5	43.1	41.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>New Mexico</b> .....	39.5	41.8	41.3	29.2	29.0	28.7	130.9	134.5	135.6
Albuquerque .....	20.2	20.6	20.4	12.5	12.5	12.3	61.3	62.7	63.7
Las Cruces .....	4.3	4.2	4.0	1.3	1.3	1.3	8.4	9.1	9.4
Santa Fe .....	1.7	1.8	1.8	1.2	1.3	1.3	10.9	11.2	11.4
<b>New York</b> .....	1,231.9	1,226.8	1,226.1	410.8	411.5	412.2	1,734.4	1,734.1	1,768.2
Albany-Schenectady-Troy .....	49.6	48.0	47.8	16.7	16.9	17.0	89.7	91.8	93.1
Binghamton .....	38.2	38.1	38.3	4.6	4.6	4.6	27.4	27.6	28.1
Buffalo .....	77.6	77.8	77.9	22.1	21.8	21.9	112.2	113.1	114.8
Elmira .....	8.2	8.9	9.0	1.4	1.4	1.4	10.8	10.7	11.0
Nassau-Suffolk .....	176.5	171.0	171.0	49.5	49.9	50.2	313.2	313.7	319.7
New York PMSA .....	467.0	461.2	461.6	243.7	242.0	242.7	776.6	772.7	784.3
New York City .....	383.4	377.9	378.1	217.4	215.8	216.4	647.4	645.2	654.4
Niagara Falls .....	24.2	24.0	24.0	3.9	3.9	3.8	19.3	19.9	20.1
Orange County .....	14.9	14.9	14.8	6.1	6.2	6.2	27.8	28.8	28.8
Poughkeepsie .....	29.7	30.1	30.0	3.3	3.4	3.4	24.8	25.0	25.3
Rochester .....	133.2	137.2	136.8	14.6	14.7	14.7	102.9	101.7	103.8
Rockland County .....	14.7	14.8	14.9	4.1	4.1	4.2	23.9	23.8	24.3
Syracuse .....	52.5	52.5	52.2	18.1	18.3	18.3	72.8	73.5	75.1
Utica-Rome .....	24.4	25.1	25.0	4.5	4.7	4.7	27.5	27.4	27.3
Westchester County .....	67.0	66.5	66.7	21.5	21.3	21.4	101.0	99.3	101.1
<b>North Carolina</b> .....	867.5	868.2	869.0	144.5	152.7	152.6	662.5	677.6	684.8
Asheville .....	19.5	19.1	19.3	3.7	3.7	3.7	19.0	19.0	19.1
Charlotte-Gastonia-Rock Hill .....	155.7	154.3	154.2	49.4	49.4	49.9	144.1	147.1	148.5
Greensboro-Winston-Salem-High Point .....	153.0	150.6	151.4	27.9	28.0	28.1	106.2	106.3	107.4
Raleigh-Durham .....	58.2	59.3	59.5	17.0	16.6	16.6	84.1	83.8	84.5
<b>North Dakota</b> .....	16.1	17.2	16.7	16.2	17.2	17.1	68.4	69.1	69.1
Bismarck .....	1.9	2.2	2.1	2.6	2.6	2.6	9.8	9.7	9.8
Fargo-Moorhead .....	4.8	5.0	4.9	4.6	5.2	5.2	21.3	21.9	22.0
Grand Forks .....	1.5	1.7	1.8	1.6	1.6	1.6	8.6	8.6	8.7
<b>Ohio</b> .....	1,103.7	1,109.1	1,113.9	209.6	212.7	212.4	1,126.1	1,149.3	1,163.0
Akron .....	67.1	66.3	67.8	13.1	13.1	13.2	67.2	68.6	69.3
Canton .....	43.8	44.0	44.0	5.8	6.1	6.2	40.3	40.6	41.2
Cincinnati .....	145.4	144.9	145.7	36.1	38.1	38.0	175.2	179.8	182.2
Cleveland .....	203.3	205.3	206.0	41.5	41.6	41.7	220.0	224.0	226.5
Columbus .....	102.7	104.2	104.6	28.7	29.3	29.4	173.7	178.0	180.8
Dayton-Springfield .....	103.6	103.4	103.7	15.6	15.9	15.9	99.6	102.3	103.8
Toledo .....	62.4	62.9	62.8	14.1	14.1	13.9	71.5	73.2	74.6
Youngstown-Warren .....	49.7	51.3	51.6	7.6	7.9	7.9	49.3	51.8	52.3
<b>Oklahoma</b> .....	154.8	158.9	159.6	62.0	61.2	61.2	270.4	266.9	267.7
Enid .....	1.7	1.6	1.6	2.0	2.2	2.2	6.3	6.0	6.0
Lawton .....	3.3	3.6	3.6	1.2	1.2	1.2	8.7	8.4	8.7
Oklahoma City .....	47.0	47.9	48.3	19.3	19.4	19.2	101.4	99.4	99.7
Tulsa .....	47.4	48.7	48.9	23.3	23.7	23.8	70.6	69.0	69.3
<b>Oregon</b> .....	208.9	218.2	213.0	59.0	60.9	61.2	286.7	304.6	306.2
Eugene-Springfield .....	19.6	20.6	20.4	4.2	4.3	4.4	27.0	28.0	28.7
Portland .....	96.2	97.9	96.3	35.1	35.9	36.0	149.8	153.5	155.4
Salem .....	14.2	17.0	15.3	2.9	3.1	3.0	22.4	22.6	23.0
<b>Pennsylvania</b> .....	1,053.5	1,057.1	1,056.8	249.8	249.3	249.6	1,153.0	1,157.5	1,171.6
Allentown-Bethlehem .....	75.9	76.8	76.4	14.0	14.0	13.9	61.4	61.6	62.3
Alltoona .....	11.4	11.3	11.3	4.6	4.6	4.6	13.2	13.6	13.6
Beaver County .....	9.8	9.3	9.0	5.2	5.3	5.3	11.2	10.9	11.1
Erie .....	34.9	35.0	35.1	4.0	3.7	3.7	24.3	24.1	24.5
Harrisburg-Lebanon-Carlisle .....	53.2	52.8	52.7	18.5	18.3	18.3	68.2	68.9	69.0
Johnstown .....	13.0	13.2	13.3	5.3	5.3	5.5	16.5	16.8	16.8
Lancaster .....	59.5	59.1	59.5	7.0	7.5	7.1	43.9	45.7	45.9
Philadelphia PMSA .....	378.1	371.5	371.8	99.1	98.1	98.1	517.3	519.3	529.2
Philadelphia City .....	96.4	94.6	94.3	45.5	44.4	44.2	153.6	156.4	158.8
Pittsburgh .....	125.4	125.0	125.3	45.2	43.2	42.8	220.7	219.5	220.4

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>New Mexico</b> .....	27.3	27.8	27.8	121.6	126.7	126.1	141.6	144.6	148.9
Albuquerque .....	15.0	15.1	15.1	63.6	65.2	64.6	46.4	47.7	48.0
Las Cruces .....	1.6	1.6	1.8	6.5	7.1	7.0	16.9	16.6	17.1
Santa Fe .....	2.0	1.9	1.9	14.3	14.9	14.6	22.0	22.3	22.7
<b>New York</b> .....	800.0	799.2	800.0	2,242.5	2,321.4	2,324.3	1,424.3	1,437.2	1,449.2
Albany-Schenectady-Troy .....	22.9	23.4	23.6	102.1	105.6	105.7	111.8	112.7	112.9
Binghamton .....	4.0	4.1	4.1	22.2	22.7	22.6	21.5	21.4	21.6
Buffalo .....	27.0	27.9	28.0	114.5	116.2	117.8	75.1	75.3	75.6
Elmira .....	1.4	1.4	1.4	9.8	10.2	10.4	6.8	6.6	7.1
Nassau-Suffolk .....	78.4	76.4	78.5	266.7	298.5	297.1	183.7	184.1	186.7
New York PMSA .....	587.4	575.8	576.3	1,272.0	1,301.1	1,310.7	665.3	671.9	677.5
New York City .....	553.8	540.9	541.3	1,126.8	1,153.4	1,162.7	582.5	588.3	592.8
Niagara Falls .....	1.9	2.0	2.0	16.9	17.8	17.5	13.1	12.8	13.0
Orange County .....	4.0	4.1	4.1	22.1	22.5	22.4	23.0	23.1	23.4
Poughkeepsie .....	4.5	4.9	4.9	26.0	27.2	27.4	25.0	24.8	24.9
Rochester .....	21.9	22.4	22.3	114.8	118.3	117.6	66.8	65.9	66.8
Rockland County .....	5.2	5.4	5.4	24.2	24.7	24.9	21.5	21.5	21.8
Syracuse .....	19.3	19.5	19.5	76.7	76.8	76.5	52.1	51.6	52.2
Utica-Rome .....	6.8	7.1	7.1	26.7	27.8	27.7	29.4	29.9	30.0
Westchester County .....	27.6	28.7	28.6	115.9	117.8	117.9	57.5	58.2	59.0
<b>North Carolina</b> .....	129.2	133.4	133.5	495.8	527.9	527.2	458.0	460.7	467.5
Asheville .....	2.6	2.7	2.7	17.7	18.4	18.5	11.9	12.9	13.0
Charlotte-Gastonia-Rock Hill .....	36.6	36.7	36.7	106.1	115.0	114.3	83.5	85.6	86.6
Greensboro-Winston-Salem-High Point .....	23.0	23.8	23.8	82.0	85.1	84.9	54.1	55.1	55.7
Raleigh-Durham .....	23.2	23.5	23.7	96.1	102.0	101.8	88.6	89.8	90.5
<b>North Dakota</b> .....	12.3	12.3	12.2	81.2	64.5	64.1	65.8	65.7	65.9
Bismarck .....	1.6	1.6	1.6	10.5	11.2	11.1	8.4	8.6	8.6
Fargo-Moorhead .....	4.5	4.6	4.5	19.3	20.1	20.2	14.6	14.7	14.8
Grand Forks .....	1.1	1.2	1.2	8.8	7.0	7.0	9.4	9.7	10.0
<b>Ohio</b> .....	246.2	253.1	253.1	1,067.5	1,110.6	1,106.8	707.6	702.8	769.3
Akron .....	10.6	10.8	10.8	58.8	61.0	60.6	44.7	45.1	47.6
Canton .....	8.5	6.4	6.4	35.6	37.3	36.9	18.8	19.1	20.5
Cincinnati .....	41.1	42.6	42.8	172.8	180.2	179.1	89.7	89.7	95.5
Cleveland .....	55.1	57.4	57.3	238.2	247.1	245.7	118.8	116.2	123.4
Columbus .....	58.2	59.7	59.7	156.7	166.5	166.8	122.1	123.7	129.7
Dayton-Springfield .....	17.9	18.4	18.4	107.3	111.6	111.6	74.5	73.7	77.9
Toledo .....	11.5	11.4	11.4	72.7	76.3	76.1	43.6	44.5	47.0
Youngstown-Warren .....	8.2	8.3	8.3	43.9	45.8	45.3	24.5	23.6	25.8
<b>Oklahoma</b> .....	57.9	56.5	56.2	232.3	239.3	238.8	251.5	253.1	250.1
Enid .....	1.0	1.0	1.0	5.5	5.6	5.8	3.6	3.5	3.5
Lawton .....	1.5	1.5	1.5	5.8	5.8	5.8	11.9	11.2	11.3
Oklahoma City .....	24.4	23.5	23.5	90.6	90.5	90.5	97.0	97.3	97.6
Tulsa .....	17.5	17.2	17.2	70.5	72.3	72.8	34.7	36.7	35.3
<b>Oregon</b> .....	71.5	74.4	74.3	245.7	280.0	263.1	212.2	214.5	219.2
Eugene-Springfield .....	4.6	4.9	4.8	24.1	25.9	26.3	23.9	24.0	24.4
Portland .....	47.3	48.8	48.8	139.8	144.9	147.7	80.3	81.1	82.7
Salem .....	5.5	5.8	5.8	19.8	20.6	20.5	30.4	30.2	30.2
<b>Pennsylvania</b> .....	292.1	298.0	297.9	1,298.2	1,364.0	1,359.2	703.9	703.1	708.2
Allentown-Bethlehem .....	11.5	11.6	11.7	66.4	70.0	69.7	30.2	29.8	30.3
Altoona .....	1.6	1.8	1.7	10.7	11.1	11.1	7.3	7.3	7.4
Beaver County .....	1.8	1.9	1.8	11.4	11.9	11.9	7.8	8.3	8.3
Erie .....	5.5	5.4	5.5	26.3	28.2	28.2	13.9	14.3	14.3
Harrisburg-Lebanon-Carlisle .....	17.3	19.0	19.1	81.2	63.8	63.2	67.1	67.6	67.7
Johnstown .....	4.7	4.7	4.6	19.8	20.4	20.5	13.0	13.0	12.6
Lancaster .....	6.8	7.2	7.2	37.6	39.9	39.4	16.5	16.5	16.7
Philadelphia PMSA .....	164.0	163.5	163.3	622.9	634.5	637.3	302.9	301.9	304.5
Philadelphia City .....	73.4	71.4	71.7	257.7	254.7	255.0	144.5	141.6	142.7
Pittsburgh .....	53.6	53.9	53.6	269.6	278.7	278.7	106.9	108.0	108.5

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	151.5	157.7	158.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.1	7.8	7.6
Scranton-Wilkes-Barre .....	294.3	302.4	300.8	0.6	0.6	0.6	12.5	14.3	13.7
Williamsport .....	52.1	54.2	54.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.0	2.1	2.0
York .....	173.7	179.4	181.2	.4	.5	.5	10.3	11.8	12.1
<b>Rhode Island</b> .....	460.0	463.2	463.5	.2	.1	.1	20.4	21.7	21.2
Pawtucket-Woonsocket-Attleboro .....	135.4	136.2	136.8	.1	.1	.1	5.3	5.5	5.1
Providence .....	325.5	327.2	327.2	.1	.1	.1	15.2	15.9	15.5
<b>South Carolina</b> .....	1,418.0	1,458.3	1,460.0	1.6	1.6	1.6	87.1	91.8	91.4
Charleston .....	189.5	196.3	197.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.6	14.2	14.2
Columbia .....	228.2	234.2	235.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.4	15.0	14.7
Greenville-Spartanburg .....	311.4	321.4	322.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.7	22.4	22.4
<b>South Dakota</b> .....	257.3	263.2	261.1	2.5	2.6	2.5	10.2	11.7	10.4
Rapid City .....	34.4	36.0	35.0	.3	.3	.3	2.2	2.4	2.1
Sioux Falls .....	65.3	67.8	67.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	3.5	3.2
<b>Tennessee</b> .....	2,058.7	2,078.5	2,076.8	6.7	6.4	6.3	101.8	102.1	100.0
Chattanooga .....	191.4	195.5	196.2	.8	.8	.8	8.6	9.6	9.4
Johnson City-Kingsport-Bristol .....	164.8	165.6	167.4	.3	.3	.3	7.5	6.7	6.9
Knoxville .....	253.6	253.9	252.4	1.9	1.8	1.8	12.1	11.5	11.4
Memphis .....	431.6	436.4	440.8	.1	.1	.1	20.6	20.5	20.4
Nashville .....	471.3	464.5	463.8	.7	.6	.6	26.7	25.4	24.4
<b>Texas</b> .....	6,575.2	6,658.6	6,676.7	183.3	178.7	178.3	339.4	319.9	316.1
Abilene .....	49.2	50.5	50.5	2.1	2.1	2.0	2.1	2.2	2.2
Amarillo .....	78.4	77.6	77.3	1.3	1.2	1.2	3.9	3.8	3.6
Austin .....	353.8	351.2	351.9	.8	.7	.7	16.4	15.2	14.9
Beaumont-Port Arthur .....	129.5	129.8	130.1	1.5	1.5	1.5	7.4	8.3	8.6
Brazoria .....	57.6	59.0	59.1	1.8	1.6	1.6	5.9	6.9	6.9
Brownsville-Harlingen .....	65.6	67.6	67.5	.1	.1	.1	2.1	2.0	2.0
Bryan-College Station .....	48.9	50.0	50.5	.7	.6	.6	2.1	2.4	2.5
Corpus Christi .....	124.4	125.9	126.2	3.9	4.2	4.3	6.3	6.3	6.1
Dallas .....	1,340.8	1,338.5	1,340.8	18.4	17.8	17.8	59.0	48.2	47.5
El Paso .....	186.7	191.2	190.8	.1	.1	.1	9.5	9.2	9.0
Ft. Worth-Arlington .....	519.1	518.5	517.5	3.6	3.6	3.6	22.7	19.2	19.2
Galveston-Texas City .....	69.6	69.3	69.3	.6	.5	.5	3.2	2.9	3.1
Houston .....	1,397.5	1,434.0	1,439.2	63.1	65.0	65.1	82.2	86.3	84.9
Killeen-Temple .....	70.0	71.2	71.4	.1	.1	.1	3.5	3.8	3.7
Laredo .....	35.9	37.9	38.1	2.0	1.9	1.9	1.3	1.2	1.1
Longview-Marshall .....	64.8	65.9	65.6	3.6	3.6	3.6	3.0	3.4	3.4
Lubbock .....	92.7	93.6	94.5	.4	.4	.4	3.2	3.4	3.4
McAllen-Edinburg-Mission .....	90.7	93.0	94.7	.9	.9	.9	4.0	4.1	4.0
Midland .....	43.7	44.9	45.3	9.9	9.6	9.6	1.2	1.2	1.2
Odessa .....	43.2	43.1	43.2	6.2	5.7	5.8	2.3	2.1	2.1
San Angelo .....	36.8	36.4	36.6	.5	.4	.4	1.5	1.5	1.5
San Antonio .....	506.9	514.5	514.9	2.5	2.5	2.4	29.6	25.2	24.6
Sherman-Denison .....	38.2	37.4	37.5	.1	.1	.1	1.6	1.7	1.8
Texarkana .....	46.2	45.3	45.1	.1	.1	.1	2.2	1.7	1.7
Tyler .....	61.2	61.8	61.9	1.9	1.8	1.8	2.2	2.3	2.3
Victoria .....	27.4	27.5	27.6	1.5	1.3	1.2	1.7	1.7	1.6
Waco .....	78.9	79.8	79.6	.1	.1	.1	3.5	3.9	3.7
Wichita Falls .....	50.1	51.3	51.2	1.9	1.9	1.9	1.7	2.1	2.1
<b>Utah</b> .....	650.7	670.6	675.6	8.3	8.1	8.1	26.1	26.8	26.3
Provo-Orem .....	79.1	83.3	84.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.9	2.9
Salt Lake City-Ogden .....	452.0	461.0	464.2	2.7	2.8	2.8	18.8	18.0	17.2
<b>Vermont</b> .....	249.5	257.9	258.0	.6	.7	.6	17.8	19.5	19.4
Barre-Montpelier .....	33.9	36.2	36.1	.2	.2	.2	2.2	2.7	2.8
Burlington .....	76.5	80.5	80.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	5.5	5.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	48.8	50.1	50.4	6.8	7.4	7.3	33.9	34.0	34.6
Scranton-Wilkes-Barre .....	71.5	72.2	70.4	15.8	16.4	16.3	68.0	68.1	69.3
Williamsport .....	16.7	16.5	16.5	1.9	1.9	1.9	11.9	12.7	12.7
York .....	60.3	61.3	61.9	7.5	8.3	8.3	41.9	42.4	43.0
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	118.0	117.0	117.2	15.7	15.8	15.7	106.2	106.6	107.8
Providence .....	54.8	54.1	54.5	3.4	3.5	3.5	33.0	33.3	34.2
Providence .....	73.7	72.9	73.0	12.1	12.3	12.2	71.9	72.7	73.4
<b>South Carolina</b>									
Charleston .....	378.4	378.7	379.5	60.3	61.8	62.2	320.3	332.7	334.4
Columbia .....	19.6	20.7	20.7	9.9	10.5	10.5	47.3	46.3	46.4
Columbia .....	29.0	30.1	30.2	10.4	10.6	10.6	50.5	50.5	50.7
Greenville-Spartanburg .....	101.0	101.5	101.9	11.5	11.9	11.9	72.2	74.5	75.0
<b>South Dakota</b>									
Rapid City .....	30.1	30.6	30.1	12.4	12.9	12.8	67.2	68.1	68.2
Rapid City .....	3.2	3.2	3.2	1.7	1.9	1.8	9.7	10.0	10.0
Sioux Falls .....	8.8	8.7	8.3	4.7	4.7	4.7	17.4	17.9	18.0
<b>Tennessee</b>									
Chattanooga .....	503.1	499.9	500.4	104.9	108.7	108.3	486.0	489.8	492.4
Chattanooga .....	46.3	47.1	47.2	8.4	8.5	8.5	45.2	45.1	45.3
Johnson City-Kingsport-Bristol .....	53.9	55.2	55.1	6.1	6.2	6.2	37.5	35.8	37.2
Knoxville .....	51.9	51.6	51.0	10.2	10.1	10.1	63.9	65.8	65.2
Memphis .....	52.9	54.0	53.6	39.4	40.6	44.7	120.6	120.3	120.8
Nashville .....	88.9	87.6	88.0	23.7	24.1	24.1	116.4	111.0	111.1
<b>Texas</b>									
Abilene .....	945.0	954.1	955.5	388.8	393.4	394.2	1,657.3	1,663.2	1,672.9
Abilene .....	4.5	4.8	4.8	2.5	2.5	2.5	13.5	14.1	14.2
Amarillo .....	9.7	9.4	9.1	5.8	5.8	5.8	23.1	23.2	23.5
Austin .....	39.7	40.1	40.1	10.7	10.7	10.7	79.7	76.9	77.7
Beaumont-Port Arthur .....	24.9	25.2	25.0	9.8	9.6	9.6	32.4	31.5	31.9
Brazoria .....	15.4	15.7	15.8	2.4	2.2	2.2	11.2	11.0	11.1
Brownsville-Harlingen .....	9.9	10.3	10.2	3.0	3.3	3.1	17.2	17.9	17.9
Bryan-College Station .....	3.0	3.1	3.2	1.5	1.7	1.7	10.0	9.7	9.9
Corpus Christi .....	11.4	11.2	11.2	6.9	6.8	6.7	32.1	32.3	32.6
Dallas .....	223.0	221.8	222.2	89.8	92.6	92.7	349.5	352.5	355.9
El Paso .....	37.2	37.9	37.6	10.2	10.8	10.7	46.7	47.5	47.4
Ft. Worth-Arlington .....	117.2	119.3	119.5	30.0	31.2	31.4	138.4	133.9	133.1
Galveston-Texas City .....	8.5	8.5	8.5	4.9	4.6	4.4	13.9	14.1	14.2
Houston .....	149.5	152.8	152.9	98.1	99.7	100.2	356.1	360.1	364.6
Killeen-Temple .....	8.0	8.4	8.4	2.7	2.8	2.7	16.2	16.3	16.5
Laredo .....	1.8	1.9	1.9	4.6	5.0	5.1	10.3	10.9	11.0
Longview-Marshall .....	15.7	15.7	15.3	3.1	3.1	3.1	16.6	17.0	17.1
Lubbock .....	7.3	7.6	7.7	5.0	5.1	5.1	27.5	27.8	28.0
McAllen-Edinburg-Mission .....	12.1	12.3	12.5	2.8	2.9	3.0	26.9	28.1	29.0
Midland .....	2.8	2.8	2.9	2.0	2.2	2.2	10.3	10.4	10.7
Odessa .....	3.7	3.7	3.7	2.1	2.2	2.2	12.6	12.8	12.8
San Angelo .....	5.8	5.4	5.5	3.1	3.0	3.0	9.6	9.5	9.5
San Antonio .....	47.0	47.0	47.1	18.0	18.0	18.0	132.5	134.8	135.6
Sherman-Denison .....	11.3	10.9	10.7	2.0	1.9	1.9	8.4	8.2	8.3
Texarkana .....	7.5	7.4	7.4	1.8	1.9	1.8	10.8	10.8	10.9
Tyler .....	10.8	10.5	10.5	2.8	2.7	2.7	16.5	16.7	16.9
Victoria .....	2.9	3.0	3.0	1.4	1.6	1.6	7.9	7.8	8.1
Waco .....	14.9	15.1	15.1	3.3	3.4	3.3	19.5	19.0	19.4
Wichita Falls .....	8.3	8.3	8.2	2.6	2.6	2.6	12.3	12.4	12.4
<b>Utah</b>									
Provo-Orem .....	95.1	99.2	100.0	38.8	40.4	40.5	155.0	156.5	160.1
Provo-Orem .....	11.9	14.3	14.6	2.9	2.7	2.8	16.9	17.4	17.7
Salt Lake City-Ogden .....	62.7	64.1	64.5	29.6	29.8	30.4	114.6	114.0	116.0
<b>Vermont</b>									
Barre-Montpelier .....	50.1	49.8	49.8	10.3	10.7	10.5	58.1	60.2	60.4
Barre-Montpelier .....	4.8	4.9	4.9	.9	.9	.9	7.2	7.6	7.7
Burlington .....	16.7	16.8	16.6	3.0	3.0	3.0	17.8	18.6	18.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	7.8	8.2	8.2	30.0	32.7	32.4	17.3	17.5	18.0
Scranton-Wilkes-Barre .....	12.9	12.9	12.9	70.8	75.7	75.0	42.2	42.2	42.8
Williamsport .....	2.3	2.4	2.4	10.1	11.1	11.2	7.2	7.5	7.5
York .....	4.9	5.2	5.2	30.2	31.3	31.3	18.2	18.6	18.9
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	25.5	26.5	28.4	114.9	117.0	118.4	59.1	58.5	58.7
Providence .....	3.6	3.7	3.7	25.0	25.8	25.6	10.2	10.2	10.1
	21.4	22.2	21.9	85.9	88.7	86.6	45.2	44.4	44.5
<b>South Carolina</b>									
Charleston .....	64.4	88.7	88.4	244.5	261.5	259.6	261.4	263.5	264.9
Columbia .....	8.6	8.7	8.8	40.3	42.0	42.3	50.1	53.8	54.1
Greenville-Spartanburg .....	18.1	18.9	19.1	44.2	45.3	45.5	62.2	63.4	63.9
	11.9	12.1	12.1	53.5	57.0	57.1	39.4	41.7	42.0
<b>South Dakota</b>									
Rapid City .....	14.2	14.6	14.7	61.2	63.1	62.6	59.5	59.7	59.8
Sioux Falls .....	1.7	1.7	1.6	8.8	9.4	8.9	6.9	7.1	7.2
	6.0	6.5	6.5	18.1	19.1	19.1	7.3	7.4	7.3
<b>Tennessee</b>									
Chattanooga .....	102.5	103.6	103.4	418.4	427.9	425.7	335.3	340.1	340.3
Johnson City-Kingsport-Bristol .....	11.7	11.9	11.8	36.3	38.2	38.4	34.1	34.3	34.8
Knoxville .....	5.3	5.6	5.6	29.6	31.6	31.7	24.5	24.2	24.4
Memphis .....	9.6	9.6	9.7	52.5	53.3	53.0	51.5	50.2	50.2
Nashville .....	24.6	25.2	25.1	99.8	101.9	101.3	73.6	73.8	74.8
	33.5	33.1	33.2	113.8	112.8	112.2	67.7	69.9	70.2
<b>Texas</b>									
Abilene .....	438.7	438.9	439.4	1,451.6	1,513.7	1,515.3	1,171.1	1,196.7	1,205.0
Amarillo .....	2.7	2.6	2.6	13.1	13.2	13.2	8.7	9.0	9.0
Austin .....	4.3	4.3	4.3	16.2	16.5	16.3	14.1	13.4	13.5
Beaumont-Port Arthur .....	24.8	24.6	24.4	84.2	83.6	83.4	97.5	99.4	100.0
Brazoria .....	5.3	5.2	5.2	27.9	28.0	27.7	20.3	20.5	20.6
Brownsville-Harlingen .....	2.0	2.0	1.9	7.8	8.3	8.3	11.1	11.3	11.3
Bryan-College Station .....	3.6	3.5	3.5	13.8	14.3	14.5	16.0	16.3	16.3
Corpus Christi .....	1.8	1.6	1.6	8.5	8.9	8.8	21.3	22.0	22.2
Dallas .....	6.9	7.1	7.1	29.0	29.7	29.8	27.9	28.3	28.4
El Paso .....	131.6	126.7	126.4	317.9	327.5	326.6	151.6	151.4	151.7
Ft. Worth-Arlington .....	9.6	9.0	9.0	34.5	36.7	36.8	39.0	40.0	40.2
Galveston-Texas City .....	27.7	26.5	26.4	112.2	116.1	115.6	67.3	68.7	68.7
Houston .....	4.1	4.1	4.1	13.7	14.5	14.5	20.7	20.1	20.0
Killeen-Temple .....	98.5	96.8	97.0	361.2	379.0	378.5	188.8	194.3	196.0
Laredo .....	3.0	3.0	3.0	15.0	15.5	15.6	21.5	21.3	21.4
Longview-Marshall .....	1.6	1.6	1.6	5.9	6.1	6.1	8.4	9.3	9.4
Lubbock .....	2.7	2.7	2.7	11.6	11.9	11.9	8.5	8.5	8.5
McAllen-Edinburg-Mission .....	5.5	5.5	5.5	21.8	22.4	22.6	22.0	21.4	21.8
Midland .....	3.9	3.8	3.9	14.5	14.9	15.3	25.6	26.0	26.1
Odessa .....	2.5	2.5	2.5	8.6	8.8	8.8	6.4	7.4	7.4
San Angelo .....	1.6	1.7	1.7	7.1	7.4	7.4	7.6	7.5	7.5
San Antonio .....	1.8	1.8	1.8	7.8	7.9	7.9	6.7	6.9	7.0
Sherman-Denison .....	39.7	40.8	40.7	121.0	127.4	127.2	116.6	118.8	119.3
Texas City .....	1.7	1.8	1.8	8.7	8.6	8.7	4.4	4.2	4.2
Tyler .....	1.9	1.9	1.8	9.4	9.4	9.4	12.5	12.1	12.0
Victoria .....	3.7	3.7	3.7	14.3	15.0	14.8	9.0	9.1	9.2
Waco .....	1.5	1.5	1.5	5.9	5.9	5.9	4.6	4.7	4.7
Wichita Falls .....	4.8	4.7	4.7	20.2	21.0	20.7	12.6	12.6	12.6
	2.3	2.3	2.3	11.5	11.6	11.6	9.5	10.1	10.1
<b>Utah</b>									
Provo-Orem .....	33.8	32.9	32.8	150.6	162.5	162.1	142.8	144.2	145.7
Salt Lake City-Ogden .....	2.3	2.3	2.3	28.9	29.8	30.0	13.6	13.9	14.0
	28.0	27.6	27.6	101.8	110.7	110.3	93.8	94.0	95.4
<b>Vermont</b>									
Barre-Montpelier .....	12.0	12.5	12.4	59.8	62.3	61.6	40.8	42.2	43.3
Burlington .....	3.0	3.0	3.0	7.4	8.2	8.0	8.2	8.7	8.6
	3.6	3.8	3.9	18.3	20.5	20.0	12.1	12.3	12.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Virginia</b> .....	2,733.7	2,841.2	2,857.1	15.8	15.0	14.9	184.3	202.6	202.2
Bristol .....	31.9	33.9	34.2	.1	.1	.1	1.0	1.0	1.0
Charlottesville .....	68.3	69.6	70.8	.1	.1	.1	3.6	3.9	4.0
Danville .....	41.0	42.2	42.6	.1	.1	.1	1.8	2.1	2.0
Lynchburg .....	72.5	73.5	73.9	.1	.1	.1	3.5	3.5	3.5
Norfolk-Virginia Beach-Newport News .....	559.8	575.5	575.8	.1	.1	.1	39.3	41.1	40.9
Northern Virginia .....	724.0	761.0	768.8	.5	.5	.5	53.0	59.4	60.2
Richmond-Petersburg .....	444.9	461.2	463.1	.5	.6	.7	30.1	32.0	31.3
Roanoke .....	120.9	120.1	121.0	.2	.2	.2	7.7	8.0	8.0
<b>Washington</b> .....	1,883.0	1,974.6	1,973.0	3.1	3.4	3.4	90.5	108.1	102.7
Seattle .....	956.5	1,002.5	1,008.6	.5	.7	.7	48.2	56.1	53.6
<b>West Virginia</b> .....	608.4	612.3	622.9	36.3	34.1	34.6	23.9	27.4	25.2
Charleston .....	106.9	108.8	109.7	2.1	2.0	2.1	4.1	4.7	4.6
Huntington-Ashland .....	103.3	105.4	106.8	1.3	1.3	1.4	4.1	4.9	4.8
Parkersburg-Marietta .....	60.4	60.6	61.5	.6	.6	.5	2.8	3.1	3.1
Wheeling .....	58.7	59.6	60.7	2.2	2.4	2.4	2.1	2.4	2.4
<b>Wisconsin</b> .....	2,126.2	2,192.1	2,192.7	2.2	2.5	2.3	72.2	78.0	76.8
Appleton-Oshkosh-Neenah .....	147.3	154.3	154.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.6	6.9	6.6
Eau Claire .....	55.6	59.5	59.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.7	1.8
Green Bay .....	97.2	101.1	101.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.8	3.7
Janesville-Beloit .....	55.7	57.9	58.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.5
Kenosha .....	41.9	42.7	42.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	.9	1.1	1.0
La Crosse .....	53.4	55.0	55.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.9	2.5
Madison .....	205.1	208.7	209.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.1	6.8	6.6
Milwaukee .....	712.8	729.6	730.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.6	23.2	23.1
Racine .....	70.8	72.2	72.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.1	2.1
Wausau .....	46.6	48.8	48.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.6
<b>Wyoming</b> .....	178.4	179.7	178.5	18.3	18.0	17.6	9.2	8.9	8.3
<b>Puerto Rico</b> .....	777.5	805.9	809.3	.8	.8	.8	35.1	39.1	38.7
Caguas .....	51.0	50.9	51.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	55.7	56.9	57.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	50.0	51.0	51.6	.2	.2	.2	3.1	3.7	3.7
San Juan .....	473.7	494.3	494.4	.5	.4	.4	26.2	28.4	28.0
<b>Virgin Islands</b> .....	39.8	39.2	39.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	1.8	1.7

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Virginia</b> .....	432.5	429.0	429.2	144.4	150.0	150.1	632.4	651.7	664.1
Bristol .....	10.4	11.7	11.8	1.1	1.1	1.1	8.1	8.4	8.6
Charlottesville .....	8.9	8.6	8.6	2.3	2.3	2.3	14.1	14.5	14.6
Danville .....	17.2	17.6	17.6	1.0	1.0	1.0	8.7	9.6	9.9
Lynchburg .....	23.4	23.1	23.2	2.8	2.7	2.7	14.9	15.7	16.0
Norfolk-Virginia Beach-Newport News .....	68.5	69.1	69.1	25.9	25.8	25.7	138.2	140.7	143.4
Northern Virginia .....	35.7	34.8	35.0	50.5	55.9	56.6	164.8	168.9	172.4
Richmond-Petersburg .....	62.8	62.8	62.8	23.1	23.8	23.5	108.1	112.5	113.6
Roanoke .....	19.8	19.5	19.2	8.8	8.4	8.4	32.8	32.6	33.6
<b>Washington</b> .....	325.6	341.2	341.1	99.9	105.9	105.5	465.3	485.3	489.1
Seattle .....	188.9	199.7	201.5	59.4	61.3	61.5	236.1	242.1	245.6
<b>West Virginia</b> .....	86.2	87.7	88.2	36.3	36.8	36.9	144.1	143.3	143.5
Charleston .....	11.0	11.1	11.1	8.5	8.5	8.6	28.5	29.0	28.3
Huntington-Ashland .....	19.0	19.8	19.8	7.7	7.7	7.7	27.1	27.2	27.2
Parkersburg-Marietta .....	13.9	14.2	14.3	2.1	2.1	2.2	14.7	14.9	14.8
Wheeling .....	7.0	7.0	7.0	3.3	3.2	3.2	16.2	16.1	16.0
<b>Wisconsin</b> .....	535.2	556.8	556.2	96.9	100.1	99.7	511.7	523.8	524.4
Appleton-Oshkosh-Neenah .....	51.0	53.6	53.2	5.4	5.6	5.7	32.4	34.3	34.4
Eau Claire .....	10.1	11.0	11.0	3.6	3.9	3.8	16.5	17.0	17.1
Green Bay .....	25.1	26.1	26.0	6.5	6.6	6.6	25.9	26.3	26.4
Janesville-Beloit .....	18.0	18.1	18.5	2.2	2.2	2.3	13.6	14.1	14.2
Kenosha .....	14.5	14.2	14.2	1.4	1.3	1.3	9.0	9.3	9.2
La Crosse .....	11.3	11.1	11.2	2.5	2.6	2.5	14.6	14.8	15.1
Madison .....	23.2	24.0	24.0	7.2	7.6	7.6	47.4	48.1	48.9
Milwaukee .....	172.7	177.6	178.4	35.5	35.9	35.9	165.3	169.1	169.3
Racine .....	24.7	25.0	25.2	2.4	2.3	2.3	16.9	17.6	17.5
Wausau .....	13.0	14.0	13.9	2.8	3.1	3.0	11.6	11.9	11.9
<b>Wyoming</b> .....	8.4	8.6	8.6	12.8	12.6	12.6	40.1	40.3	39.7
<b>Puerto Rico</b> .....	154.1	154.8	156.0	15.8	14.8	14.9	139.2	140.0	142.8
Caguas .....	15.7	15.0	15.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.6	10.0	10.2
Mayaguez .....	20.3	20.2	20.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9	7.7	8.0
Ponce .....	9.6	9.2	9.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9	8.0	8.4
San Juan .....	66.2	67.3	67.6	13.7	12.2	12.1	97.5	99.0	100.6
<b>Virgin Islands</b> .....	2.2	2.3	2.3	2.6	2.5	2.6	9.4	8.9	9.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Virginia</b> .....	146.2	150.3	150.4	635.4	691.3	688.6	542.7	551.3	557.6
Bristol .....	1.2	1.4	1.4	4.9	5.1	5.1	5.1	5.1	5.1
Charlottesville .....	3.6	3.7	3.7	12.0	12.3	12.4	23.9	24.2	25.1
Danville .....	1.2	1.2	1.2	5.8	5.5	5.6	5.2	5.1	5.2
Lynchburg .....	3.8	4.2	4.2	14.2	14.5	14.5	9.7	9.7	9.7
Norfolk-Virginia Beach-Newport News .....	27.2	28.1	27.9	132.3	142.3	140.2	128.3	128.3	128.5
Northern Virginia .....	47.3	49.4	49.7	227.1	246.7	248.2	145.3	145.4	146.2
Richmond-Petersburg .....	35.9	37.1	37.2	93.3	98.8	98.4	91.3	93.6	95.6
Roanoke .....	8.2	8.4	8.4	27.7	27.7	27.5	15.6	15.3	15.7
<b>Washington</b> .....	106.8	109.0	109.3	429.2	454.2	451.7	362.6	367.5	370.2
Seattle .....	67.7	69.4	69.7	224.4	238.6	239.2	131.3	134.6	136.8
<b>West Virginia</b> .....	24.5	24.3	24.3	126.3	128.4	128.0	130.8	130.3	142.2
Charleston .....	6.0	6.0	6.1	25.6	25.5	25.5	21.1	22.0	23.4
Huntington-Ashland .....	3.9	3.9	3.9	20.2	21.9	22.2	20.0	18.7	19.8
Parkersburg-Marietta .....	2.3	2.3	2.3	13.8	13.3	13.5	10.2	10.1	10.8
Wheeling .....	2.7	2.6	2.6	15.7	16.1	16.0	9.5	9.8	11.1
<b>Wisconsin</b> .....	112.9	114.9	115.1	461.4	475.7	473.8	333.6	340.3	344.4
Appleton-Oshkosh-Neenah .....	7.2	7.6	7.6	27.5	28.7	28.7	16.9	17.3	17.9
Eau Claire .....	1.9	2.0	1.9	11.9	12.5	12.5	10.3	11.4	11.5
Green Bay .....	3.4	3.6	3.6	21.6	23.4	23.2	11.0	11.2	11.7
Janesville-Beloit .....	1.6	1.7	1.7	12.2	12.9	12.9	6.7	7.3	7.4
Kenosha .....	1.3	1.5	1.4	8.3	8.7	8.4	6.5	6.6	6.8
La Crosse .....	1.4	1.5	1.5	14.1	14.8	14.8	7.9	8.3	8.2
Madison .....	18.1	18.5	18.6	43.3	45.2	44.9	57.6	58.3	58.6
Milwaukee .....	49.3	49.4	49.6	185.0	190.3	189.8	82.0	83.8	84.2
Racine .....	2.3	2.3	2.3	14.2	14.4	14.6	8.4	8.4	8.5
Wausau .....	3.4	3.5	3.6	8.0	8.4	8.4	6.3	6.3	6.5
<b>Wyoming</b> .....	7.3	7.2	7.1	30.7	31.7	31.2	51.6	52.3	53.4
<b>Puerto Rico</b> .....	35.5	36.1	36.1	112.7	117.9	118.2	284.3	302.5	301.8
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.8	16.0	15.8
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.4	19.4	19.3
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.6	9.4	9.4	16.7	17.4	17.5
San Juan .....	29.0	29.2	29.2	79.7	84.6	84.1	161.3	173.1	172.4
<b>Virgin Islands</b> .....	1.7	1.8	1.8	9.3	8.9	9.4	12.6	13.0	13.0

<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 1987 benchmarks except Colorado. Data for Colorado have been adjusted to December 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	\$2.38	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.48	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	42.8	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.81	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	5.89	211.87
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	11.26	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.83	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.52	530.85	37.8	12.69	479.68
1988 <sup>p</sup> .....	34.8	9.29	323.29	42.2	12.68	535.10	37.9	12.97	491.56
<b>Monthly data, not seasonally adjusted</b>									
<b>1987:</b>									
December .....	34.8	\$9.13	\$317.72	43.1	\$12.60	\$543.06	37.6	\$12.81	\$481.66
<b>1988:</b>									
January .....	34.4	9.18	315.79	42.1	12.77	537.62	35.9	12.99	466.34
February .....	34.5	9.17	316.37	41.8	12.71	531.28	36.1	12.82	462.80
March .....	34.4	9.18	315.79	41.9	12.59	527.52	37.4	12.87	481.34
April .....	34.7	9.23	320.28	42.8	12.60	539.28	37.9	12.88	488.15
May .....	34.6	9.26	320.40	42.2	12.54	529.19	38.2	12.87	491.63
June .....	34.9	9.23	322.13	42.5	12.55	533.38	38.7	12.85	497.30
July .....	35.1	9.25	324.68	42.3	12.66	535.52	38.5	12.91	497.04
August .....	35.0	9.24	323.40	42.0	12.62	530.04	36.6	12.95	499.87
September .....	34.8	9.40	327.12	42.2	12.75	536.05	38.4	13.13	504.19
October .....	34.9	9.45	329.81	42.7	12.72	543.14	39.0	13.13	512.07
November <sup>p</sup> .....	34.7	9.45	327.92	41.9	12.80	536.32	37.7	13.04	491.61
December <sup>p</sup> .....	34.9	9.45	329.81	42.1	12.84	540.56	37.2	13.15	469.16

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
	Annual averages									
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.35	358.11
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
1988 <sup>p</sup> .....	41.1	10.17	9.71	417.99	39.3	12.33	484.57	38.1	9.92	377.95
	Monthly data, not seasonally adjusted									
<b>1987:</b>										
December .....	41.8	\$10.07	\$9.59	\$420.93	39.2	\$12.24	\$479.81	38.2	\$9.73	\$371.69
<b>1988:</b>										
January .....	41.0	10.07	9.62	412.87	39.0	12.16	474.24	37.9	9.78	370.66
February .....	40.7	10.05	9.63	409.04	38.9	12.23	475.75	37.9	9.78	370.66
March .....	40.9	10.07	9.64	411.86	38.6	12.19	470.53	37.9	9.78	370.66
April .....	41.0	10.12	9.68	414.92	39.2	12.27	480.98	38.2	9.88	377.42
May .....	40.9	10.14	9.70	414.73	39.2	12.28	481.38	38.0	9.87	375.06
June .....	41.2	10.16	9.70	418.59	39.5	12.27	484.67	38.1	9.85	375.29
July .....	40.7	10.16	9.72	413.51	39.8	12.33	490.73	38.3	9.93	380.32
August .....	40.8	10.12	9.66	412.90	39.7	12.35	490.30	38.0	9.88	375.44
September .....	41.3	10.25	9.75	423.33	39.5	12.41	490.20	38.1	10.01	381.38
October .....	41.3	10.24	9.76	422.91	39.5	12.43	490.99	38.2	10.08	385.06
November <sup>p</sup> .....	41.5	10.30	9.81	427.45	39.4	12.50	492.50	38.0	10.05	381.90
December <sup>p</sup> .....	41.8	10.37	9.87	433.47	39.6	12.48	494.21	38.2	10.13	386.97

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	8.36	304.30	32.5	8.18	265.85
1987 .....	29.2	6.11	178.41	36.3	8.73	316.90	32.5	8.48	275.60
1988 <sup>p</sup> .....	29.1	6.30	183.33	36.0	9.09	327.24	32.6	8.90	290.14
Monthly data, not seasonally adjusted									
<b>1987:</b>									
December .....	29.3	\$6.19	\$181.37	36.0	\$8.81	\$317.16	32.4	\$8.73	\$282.85
<b>1988:</b>									
January .....	28.3	6.24	176.59	36.2	8.96	324.35	32.4	8.81	285.44
February .....	28.5	6.23	177.56	36.4	9.02	328.33	32.6	8.81	287.21
March .....	28.6	6.24	178.46	35.8	8.97	321.13	32.3	8.80	284.24
April .....	28.9	6.26	180.91	36.2	9.03	326.89	32.6	8.82	287.53
May .....	28.9	6.28	181.49	35.8	9.09	325.42	32.4	8.84	286.42
June .....	29.4	6.26	184.04	35.8	8.98	321.48	32.7	8.78	287.11
July .....	30.0	6.28	188.40	36.2	9.03	326.89	33.0	8.79	290.07
August .....	29.8	6.26	186.55	35.7	9.04	322.73	32.8	8.79	288.31
September .....	29.0	6.37	184.73	35.8	9.14	327.21	32.5	8.98	291.85
October .....	29.1	6.38	185.66	36.0	9.29	334.44	32.7	9.07	296.59
November <sup>p</sup> .....	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.09	295.43
December <sup>p</sup> .....	29.3	6.40	187.52	35.8	9.28	332.22	32.6	9.13	297.64

<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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

**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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>
<b>Total private</b> .....		34.8	34.8	34.9	34.7	34.9	-	-	-	-	-
<b>Mining</b> .....		42.6	43.1	42.7	41.9	42.1	-	-	-	-	-
Metal mining .....	10	42.1	42.8	41.7	42.1	-	-	-	-	-	-
Iron ores .....	101	41.8	42.7	42.3	42.4	-	-	-	-	-	-
Copper ores .....	102	43.0	43.6	43.5	43.1	-	-	-	-	-	-
Coal mining .....	11,12	42.1	43.2	42.7	41.8	-	-	-	-	-	-
Bituminous coal and lignite mining .....	12	42.1	43.2	42.8	41.9	-	-	-	-	-	-
Oil and gas extraction .....	13	42.0	42.6	41.5	40.7	-	-	-	-	-	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	40.9	42.6	41.0	40.9	-	-	-	-	-	-
Oil and gas field services .....	138	42.7	42.6	41.9	40.8	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	45.6	45.3	46.5	45.4	-	-	-	-	-	-
Crushed and broken stone .....	142	47.1	47.0	47.9	46.5	-	-	-	-	-	-
<b>Construction</b> .....		37.1	37.6	39.0	37.7	37.2	-	-	-	-	-
General building contractors .....	15	36.8	37.2	38.3	37.5	-	-	-	-	-	-
Residential building construction .....	152	36.1	36.2	37.3	36.3	-	-	-	-	-	-
Operative builders .....	153	37.7	37.9	39.0	38.5	-	-	-	-	-	-
Nonresidential building construction .....	154	37.5	38.2	39.6	38.8	-	-	-	-	-	-
Heavy construction contractors .....	16	40.3	41.3	44.0	41.6	-	-	-	-	-	-
Highway and street construction .....	161	39.9	40.7	45.9	41.8	-	-	-	-	-	-
Heavy construction, except highway .....	162	40.5	41.6	42.9	41.4	-	-	-	-	-	-
Special trade contractors .....	17	36.3	36.7	38.0	36.7	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	37.8	36.3	39.0	37.9	-	-	-	-	-	-
Painting, paper hanging, and decorating .....	172	35.5	36.1	36.5	35.4	-	-	-	-	-	-
Electrical work .....	173	36.3	39.2	38.8	38.1	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	34.0	34.9	35.9	34.7	-	-	-	-	-	-
Carpentering and flooring .....	175	35.4	35.3	35.4	35.6	-	-	-	-	-	-
Roofing and sheet metal work .....	176	32.6	31.6	35.6	33.3	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.4	41.8	41.3	41.5	41.6	4.1	4.2	4.1	4.2	4.3
<b>Durable goods</b> .....		42.0	42.4	42.0	42.2	42.6	4.2	4.3	4.3	4.3	4.6
Lumber and wood products .....	24	40.4	40.5	40.9	40.0	40.7	3.8	3.7	3.9	3.6	-
Logging camps and logging contractors .....	241	40.0	39.1	42.3	38.8	-	4.8	4.1	5.6	4.1	-
Sawmills and planing mills .....	242	41.3	41.6	41.9	41.1	-	4.4	4.5	4.3	4.1	-
Sawmills and planing mills, general .....	2421	41.3	41.6	42.2	41.3	-	4.6	4.7	4.6	4.3	-
Hardwood dimension and flooring .....	2426	41.5	42.0	40.7	40.6	-	4.0	4.0	3.4	3.3	-
Millwork, plywood, and structural members .....	243	40.6	40.7	40.4	40.2	-	3.3	3.4	3.5	3.5	-
Millwork .....	2431	40.2	39.7	40.0	39.4	-	2.5	2.5	2.8	2.5	-
Wood kitchen cabinets .....	2434	40.1	41.2	39.2	39.6	-	3.1	3.3	3.0	3.3	-
Hardwood veneer and plywood .....	2435	41.8	42.2	41.3	41.2	-	4.0	4.3	3.7	3.7	-
Softwood veneer and plywood .....	2436	41.8	41.7	42.9	42.0	-	4.7	4.8	5.4	5.1	-
Wood containers .....	244	38.3	38.9	39.2	38.7	-	2.8	2.9	3.5	3.1	-
Wood buildings and mobile homes .....	245	36.4	36.1	39.8	38.6	-	2.5	2.2	2.9	2.4	-
Mobile homes .....	2451	37.7	37.3	39.6	36.1	-	2.1	1.9	2.6	2.2	-
Miscellaneous wood products .....	249	40.7	40.9	40.4	40.0	-	3.6	3.6	3.3	3.1	-
Furniture and fixtures .....	25	40.8	41.1	40.1	39.9	40.6	3.1	3.4	3.1	2.6	-
Household furniture .....	251	40.3	40.7	39.7	39.6	-	2.9	3.2	2.6	2.5	-
Wood household furniture .....	2511	41.0	41.4	40.0	40.2	-	3.2	3.3	2.9	2.7	-
Upholstered household furniture .....	2512	39.3	39.5	39.0	38.6	-	2.5	2.7	2.4	2.2	-
Metal household furniture .....	2514	41.8	43.1	40.0	40.4	-	3.5	4.5	2.7	2.3	-
Mattresses and bedsprings .....	2515	36.2	38.5	39.4	38.6	-	2.5	2.5	3.3	2.5	-
Office furniture .....	252	42.1	43.4	40.7	39.7	-	3.0	4.0	3.0	2.9	-
Public building and related furniture .....	253	40.5	40.3	41.3	41.1	-	3.6	3.9	4.3	4.3	-
Partitions and fixtures .....	254	40.5	41.2	41.1	40.8	-	3.8	4.0	4.0	3.8	-
Miscellaneous furniture and fixtures .....	259	40.6	40.1	39.9	40.5	-	3.0	2.9	2.8	3.0	-
Stone, clay, and glass products .....	32	42.4	42.3	43.0	42.6	41.9	5.1	4.9	5.6	5.2	-
Flat glass .....	321	45.6	48.7	46.2	45.5	-	7.4	7.6	6.4	7.6	-
Glass and glassware, pressed or blown .....	322	41.3	41.0	41.4	41.7	-	4.7	4.5	4.6	4.5	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Total private</b> .....		\$9.13	\$9.13	\$9.45	\$9.45	\$9.45	\$317.72	\$317.72	\$329.81	\$327.92	\$329.81
<b>Mining</b> .....		12.54	12.60	12.72	12.80	12.84	534.20	543.06	543.14	536.32	540.56
Metal mining .....	10	12.84	12.76	13.29	13.26	-	540.56	543.58	554.19	558.25	-
Iron ores .....	101	13.49	13.03	13.63	14.00	-	561.18	556.38	576.55	593.60	-
Copper ores .....	102	11.39	11.48	11.60	11.45	-	489.77	500.53	504.60	493.50	-
Coal mining .....	11,12	16.17	16.04	15.92	16.03	-	680.76	692.93	679.78	670.05	-
Bituminous coal and lignite mining .....	12	16.23	16.09	15.97	16.08	-	683.28	695.09	683.52	673.75	-
Oil and gas extraction .....	13	11.39	11.53	11.74	11.82	-	478.38	491.18	487.21	481.07	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	14.07	14.28	14.56	14.54	-	575.46	608.33	596.96	594.69	-
Oil and gas field services .....	138	9.97	10.00	10.23	10.29	-	425.72	426.00	428.64	417.77	-
Nonmetallic minerals, except fuels .....	14	10.73	10.78	11.13	11.14	-	489.29	488.33	517.55	505.76	-
Crushed and broken stone .....	142	10.15	10.14	10.58	10.57	-	478.07	476.58	506.78	491.51	-
<b>Construction</b> .....		12.83	12.81	13.13	13.04	13.15	475.99	481.66	512.07	491.61	489.18
General building contractors .....	15	11.88	11.89	12.35	12.30	-	437.18	442.31	473.01	461.25	-
Residential building construction .....	152	11.13	11.19	11.68	11.60	-	401.79	405.08	435.66	421.08	-
Operative builders .....	153	10.69	10.85	11.57	11.66	-	403.01	411.22	451.23	448.91	-
Nonresidential building construction .....	154	12.76	12.69	13.14	13.11	-	478.50	484.76	520.34	508.67	-
Heavy construction contractors .....	16	12.22	11.92	12.70	12.47	-	492.47	492.30	558.80	518.75	-
Highway and street construction .....	161	12.14	11.54	12.81	12.36	-	484.39	469.68	587.98	516.65	-
Heavy construction, except highway .....	162	12.26	12.11	12.62	12.54	-	496.53	503.78	541.40	519.16	-
Special trade contractors .....	17	13.44	13.46	13.59	13.52	-	487.87	493.98	516.42	496.18	-
Plumbing, heating, and air conditioning .....	171	13.57	13.67	13.94	13.86	-	510.23	523.56	543.66	525.29	-
Painting, paper hanging, and decorating .....	172	12.70	12.72	12.87	12.70	-	450.85	459.19	469.76	449.58	-
Electrical work .....	173	14.80	14.75	14.69	14.61	-	566.84	578.20	569.97	556.64	-
Masonry, stonework, and plastering .....	174	13.49	13.41	13.76	13.67	-	458.66	468.01	493.98	474.35	-
Carpentering and flooring .....	175	12.86	12.83	13.11	13.07	-	455.24	452.90	464.09	465.29	-
Roofing and sheet metal work .....	176	11.90	12.04	12.07	11.98	-	387.94	382.87	429.69	398.93	-
<b>Manufacturing</b> .....		10.01	10.07	10.24	10.30	10.37	414.41	420.93	422.91	427.45	433.47
<b>Durable goods</b> .....		10.54	10.60	10.78	10.85	10.92	442.68	449.44	452.76	457.87	465.19
Lumber and wood products .....	24	8.47	8.43	8.76	8.68	8.74	342.19	341.42	358.28	347.20	355.72
Logging camps and logging contractors .....	241	10.90	10.66	11.36	10.96	-	436.00	416.81	480.53	425.25	-
Sawmills and planing mills .....	242	8.61	8.63	8.82	8.82	-	355.59	359.01	369.56	362.50	-
Sawmills and planing mills, general .....	2421	8.96	8.99	9.15	9.16	-	370.05	373.98	386.13	378.31	-
Hardwood dimension and flooring .....	2426	6.91	6.97	7.13	7.17	-	286.77	292.74	290.19	291.10	-
Millwork, plywood, and structural members .....	243	8.36	8.34	8.62	8.62	-	339.42	339.44	348.25	346.52	-
Millwork .....	2431	8.60	8.53	8.78	8.77	-	345.72	338.64	351.20	345.54	-
Wood kitchen cabinets .....	2434	7.74	7.79	8.08	8.14	-	310.37	320.95	316.74	322.34	-
Hardwood veneer and plywood .....	2435	6.85	6.87	7.08	7.06	-	284.96	289.91	292.40	290.87	-
Softwood veneer and plywood .....	2436	9.87	9.82	10.20	10.13	-	412.57	409.49	437.58	425.46	-
Wood containers .....	244	6.20	6.28	6.48	6.40	-	237.46	244.29	254.02	247.68	-
Wood buildings and mobile homes .....	245	7.97	7.99	8.21	8.25	-	306.05	304.42	326.76	318.45	-
Mobile homes .....	2451	8.04	8.04	8.32	8.36	-	303.11	299.89	329.47	318.52	-
Miscellaneous wood products .....	249	7.29	7.34	7.51	7.47	-	296.70	300.21	303.40	298.80	-
Furniture and fixtures .....	25	7.71	7.78	8.04	8.00	8.04	313.03	319.76	322.40	319.20	326.42
Household furniture .....	251	7.13	7.21	7.42	7.36	-	287.34	293.45	294.57	291.46	-
Wood household furniture .....	2511	6.64	6.67	6.95	6.90	-	272.24	276.14	278.00	277.38	-
Upholstered household furniture .....	2512	7.88	8.03	8.09	8.09	-	309.68	317.19	315.51	312.27	-
Metal household furniture .....	2514	6.99	6.94	7.40	7.15	-	292.18	299.11	296.00	288.86	-
Mattresses and bedsprings .....	2515	7.64	7.75	7.90	7.86	-	291.85	298.38	311.26	303.40	-
Office furniture .....	252	8.58	8.71	9.14	9.06	-	361.22	378.01	372.00	359.68	-
Public building and related furniture .....	253	7.99	7.99	8.45	8.60	-	323.60	322.00	348.99	353.46	-
Partitions and fixtures .....	254	9.27	9.34	9.55	9.53	-	375.44	384.81	392.51	388.82	-
Miscellaneous furniture and fixtures .....	259	8.19	8.18	8.36	8.39	-	332.51	328.02	333.56	339.80	-
Stone, clay, and glass products .....	32	10.30	10.29	10.58	10.60	10.50	436.72	435.27	454.94	451.56	439.95
Flat glass .....	321	14.90	15.01	15.23	15.30	-	679.44	700.97	703.63	696.15	-
Glass and glassware, pressed or blown .....	322	11.36	11.41	11.77	11.69	-	469.17	467.81	487.28	487.47	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	40.8	41.0	40.7	41.1	-	5.5	5.3	5.3	4.9	-
Pressed and blown glass, nec .....	3229	41.9	41.1	42.1	42.4	-	3.9	3.5	3.8	4.0	-
Products of purchased glass .....	323	41.8	41.7	42.8	43.2	-	3.7	3.7	4.3	4.3	-
Cement, hydraulic .....	324	42.5	42.2	41.6	42.6	-	3.0	3.6	3.2	3.8	-
Structural clay products .....	325	42.3	42.6	42.2	42.1	-	4.3	4.6	4.5	4.2	-
Pottery and related products .....	326	40.5	41.1	40.6	40.6	-	3.6	3.5	3.7	3.8	-
Concrete, gypsum, and plaster products .....	327	42.9	42.4	44.6	43.3	-	6.2	5.7	7.4	6.5	-
Concrete block and brick .....	3271	44.9	44.5	45.9	44.0	-	7.3	6.4	7.4	6.3	-
Concrete products, nec .....	3272	42.6	43.4	43.4	42.9	-	5.9	5.7	6.6	6.0	-
Ready-mixed concrete .....	3273	41.8	40.5	44.6	42.5	-	5.8	5.2	7.7	6.5	-
Misc. nonmetallic mineral products .....	329	43.1	43.8	42.4	42.8	-	4.9	5.2	4.9	4.7	-
Abrasive products .....	3291	43.9	45.1	43.5	44.2	-	4.1	4.8	4.5	4.2	-
Asbestos products .....	3292	43.3	45.3	43.0	44.5	-	5.5	6.8	5.1	5.0	-
Primary metal industries											
Blast furnaces and basic steel products .....	331	43.7	44.1	43.6	43.9	44.1	5.4	5.5	5.8	5.7	-
Blast furnaces and steel mills .....	3312	43.8	44.4	43.9	44.0	44.3	5.6	5.7	6.0	5.7	-
Steel pipe and tubes .....	3317	43.8	44.5	44.3	44.4	-	5.7	5.8	6.3	6.0	-
Iron and steel foundries .....	332	43.7	44.8	41.8	42.7	-	6.2	6.7	4.6	4.9	-
Gray iron foundries .....	3321	43.6	44.1	43.9	44.2	-	5.4	5.6	6.0	6.2	-
Malleable iron foundries .....	3322	43.9	44.0	44.1	44.3	-	5.8	5.7	6.4	6.6	-
Steel foundries, nec .....	3325	42.2	42.5	42.0	43.0	-	3.9	4.5	4.2	5.2	-
Primary nonferrous metals .....	333	42.4	44.1	43.9	44.0	-	4.6	5.7	5.9	5.8	-
Primary aluminum .....	3334	44.2	43.9	43.0	44.1	-	5.1	4.7	4.8	5.1	-
Nonferrous rolling and drawing .....	335	44.7	44.6	42.8	43.7	-	4.8	4.5	4.6	4.8	-
Copper rolling and drawing .....	3351	44.1	44.5	43.9	44.0	-	5.9	6.0	6.3	6.2	-
Aluminum sheet, plate, and foil .....	3353	44.5	44.5	43.3	43.9	-	6.2	6.8	6.3	6.1	-
Nonferrous wire drawing and insulating .....	3357	45.0	46.0	45.3	45.4	-	7.1	7.6	7.8	7.3	-
Nonferrous foundries .....	336	43.7	44.1	43.6	43.7	-	5.5	5.5	6.1	6.1	-
Aluminum foundries .....	3361	42.5	42.6	42.0	42.5	-	4.1	4.2	4.2	4.5	-
Aluminum foundries .....	3361	43.3	43.0	42.5	42.9	-	4.4	4.4	4.3	4.8	-
Fabricated metal products											
Metal cans and shipping containers .....	34	42.4	42.7	42.0	42.4	42.9	4.4	4.5	4.4	4.5	-
Metal cans .....	341	44.1	45.0	44.8	45.7	-	5.9	5.3	6.5	6.3	-
Cutlery, hand tools, and hardware .....	342	44.5	45.1	45.2	46.4	-	6.0	5.3	6.6	6.6	-
Hand and edge tools, and hand saws and blades .....	3423,5	42.4	42.6	41.4	41.8	-	4.2	4.1	3.7	3.7	-
Hardware, nec .....	3429	42.6	42.4	41.1	41.1	-	4.3	3.9	3.1	3.0	-
Plumbing and heating, except electric .....	343	42.0	42.5	41.2	41.9	-	4.1	4.1	3.8	4.0	-
Plumbing fittings and brass goods .....	3432	42.1	43.2	40.8	41.6	-	4.2	4.6	3.6	4.1	-
Heating equipment, except electric .....	3433	42.4	43.6	40.7	41.4	-	4.0	4.4	2.8	3.7	-
Fabricated structural metal products .....	344	42.4	43.2	40.7	41.6	-	4.5	4.4	4.3	4.9	-
Fabricated structural metal .....	3441	41.5	41.7	41.1	41.5	-	3.8	3.9	3.9	4.0	-
Metal doors, sash, and trim .....	3442	42.0	42.9	42.2	42.0	-	4.0	4.5	4.9	4.7	-
Fabricated plate work (boiler shops) .....	3443	40.4	39.4	40.0	40.3	-	3.0	2.7	2.9	2.9	-
Sheet metal work .....	3444	42.9	44.2	42.3	43.0	-	4.3	4.8	4.2	4.2	-
Architectural metal work .....	3446	40.6	40.9	40.1	40.4	-	3.7	3.6	3.4	3.5	-
Screw machine products, bolts, etc .....	345	40.9	41.1	40.8	41.3	-	3.4	3.7	4.5	4.9	-
Screw machine products .....	3451	43.5	44.3	43.0	43.9	-	5.5	6.1	5.5	6.0	-
Bolts, nuts, rivets, and washers .....	3452	42.4	43.0	41.6	42.3	-	4.6	5.2	4.6	4.9	-
Metal forgings and stampings .....	346	44.8	45.8	44.7	45.8	-	6.6	7.1	6.7	7.4	-
Iron and steel forgings .....	3462	43.2	43.6	43.3	44.0	-	5.1	5.1	5.5	5.7	-
Automotive stampings .....	3465	43.3	44.3	43.2	44.3	-	4.9	5.6	5.1	6.1	-
Metal stampings, nec .....	3469	44.6	44.8	45.3	46.5	-	5.8	5.4	7.0	7.2	-
Metal services, nec .....	347	41.7	42.1	41.3	41.3	-	4.5	4.7	4.2	4.0	-
Plating and polishing .....	3471	41.9	41.9	41.3	41.8	-	4.1	4.3	3.8	4.0	-
Metal coating and allied services .....	3479	41.6	41.8	41.0	41.7	-	4.1	4.3	3.6	3.8	-
Ordnance and accessories, nec .....	348	42.5	42.0	41.9	42.0	-	4.2	4.3	4.2	4.5	-
Ammunition, except for small arms, nec .....	3483	42.9	42.7	41.4	41.5	-	3.1	3.7	3.1	2.8	-
Misc. fabricated metal products .....	349	42.8	41.8	41.0	39.8	-	2.8	3.0	2.7	2.7	-
Valves and pipe fittings .....	3494	42.2	42.8	41.9	42.2	-	4.1	4.5	4.0	4.0	-
Misc. fabricated wire products .....	3496	43.1	44.1	42.0	42.4	-	4.5	5.3	3.8	3.9	-
Machinery, except electrical .....	35	40.8	41.4	40.8	41.1	-	3.8	3.9	3.9	3.7	-
Engines and turbines .....	351	43.0	43.7	42.5	42.7	43.5	4.6	5.0	4.5	4.6	-
Turbines and turbine generator sets .....	3511	45.2	44.8	44.2	44.9	-	6.9	6.5	5.1	5.3	-
Internal combustion engines, nec .....	3519	42.5	41.2	44.7	46.1	-	6.1	4.0	8.0	9.6	-
Farm and garden machinery .....	352	46.0	45.9	44.1	44.6	-	7.1	7.3	4.2	4.0	-
Farm machinery and equipment .....	3523	42.6	43.5	41.2	41.4	-	3.9	4.2	3.6	3.8	-
Farm machinery and equipment .....	3523	43.3	44.0	41.4	41.8	-	4.6	4.7	4.2	4.3	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	\$11.78	\$11.87	\$12.25	\$12.09	-	\$480.62	\$486.67	\$498.58	\$496.90	-
Pressed and blown glass, nec .....	3229	10.91	10.90	11.25	11.25	-	457.13	447.99	473.63	477.00	-
Products of purchased glass .....	323	8.76	8.72	9.29	9.30	-	366.17	363.62	397.61	401.76	-
Cement, hydraulic .....	324	13.68	13.48	13.37	13.89	-	581.40	568.86	556.19	591.71	-
Structural clay products .....	325	8.62	8.63	9.03	9.06	-	364.63	367.64	381.07	381.43	-
Pottery and related products .....	326	8.99	9.09	9.41	9.52	-	364.10	373.60	382.05	386.51	-
Concrete, gypsum, and plaster products .....	327	10.08	9.98	10.37	10.35	-	432.43	423.15	462.50	448.16	-
Concrete block and brick .....	3271	9.04	9.04	9.38	9.43	-	405.90	402.28	430.54	414.92	-
Concrete products, nec .....	3272	9.04	8.99	9.37	9.23	-	385.10	390.17	406.66	395.97	-
Ready-mixed concrete .....	3273	10.89	10.81	11.15	11.21	-	455.20	437.81	497.29	476.43	-
Misc. nonmetallic mineral products .....	329	10.45	10.54	10.60	10.63	-	450.40	461.65	449.44	454.96	-
Abrasive products .....	3291	9.88	9.99	10.05	10.17	-	433.73	450.55	437.18	449.51	-
Asbestos products .....	3292	10.46	10.70	10.88	10.70	-	452.92	484.71	467.84	476.15	-
Primary metal industries .....	33	12.04	12.11	12.20	12.23	\$12.26	526.15	534.05	531.92	536.90	\$540.67
Blast furnaces and basic steel products .....	331	13.89	13.93	14.04	13.99	13.96	608.38	618.49	616.36	615.56	618.43
Blast furnaces and steel mills .....	3312	14.61	14.68	14.78	14.71	-	639.92	653.26	654.75	653.12	-
Steel pipe and tubes .....	3317	10.98	10.93	10.96	10.92	-	479.83	489.66	458.13	466.28	-
Iron and steel foundries .....	332	10.86	10.91	11.05	11.17	-	473.50	481.13	485.10	493.71	-
Gray iron foundries .....	3321	11.35	11.41	11.58	11.75	-	498.27	502.04	510.68	520.53	-
Malleable iron foundries .....	3322	11.74	11.79	11.86	11.97	-	495.43	501.08	498.12	514.71	-
Steel foundries, nec .....	3325	10.07	10.21	10.29	10.32	-	426.97	450.26	451.73	454.08	-
Primary nonferrous metals .....	333	13.11	13.14	13.38	13.35	-	579.46	576.85	575.34	588.74	-
Primary aluminum .....	3334	13.38	13.51	13.66	13.69	-	598.09	602.55	584.65	598.25	-
Nonferrous rolling and drawing .....	335	11.54	11.57	11.79	11.85	-	508.91	514.87	517.58	521.40	-
Copper rolling and drawing .....	3351	10.60	10.83	11.06	11.04	-	471.70	481.94	478.90	484.66	-
Aluminum sheet, plate, and foil .....	3353	14.06	13.94	13.96	13.98	-	632.70	641.24	632.39	634.69	-
Nonferrous wire drawing and insulating .....	3357	11.66	11.61	12.08	12.18	-	509.54	512.00	526.69	532.27	-
Nonferrous foundries .....	336	9.55	9.69	9.65	9.74	-	405.88	412.79	405.30	413.95	-
Aluminum foundries .....	3361	9.79	10.01	9.87	9.97	-	423.91	430.43	419.48	427.71	-
Fabricated metal products .....	34	10.10	10.19	10.32	10.35	10.39	428.24	435.11	433.44	438.84	445.73
Metal cans and shipping containers .....	341	13.23	13.38	13.51	13.70	-	583.44	602.10	605.25	626.09	-
Metal cans .....	3411	13.99	14.15	14.41	14.57	-	622.56	638.17	651.33	676.05	-
Cutlery, hand tools, and hardware .....	342	10.07	10.12	10.30	10.31	-	426.97	431.11	426.42	430.96	-
Hand and edge tools, and hand saws and blades .....	3423,5	9.28	9.30	9.36	9.38	-	395.33	394.32	384.70	385.52	-
Hardware, nec .....	3429	10.45	10.50	10.73	10.74	-	438.90	446.25	442.08	450.01	-
Plumbing and heating, except electric .....	343	9.31	9.30	9.39	9.37	-	391.95	401.76	383.11	389.79	-
Plumbing fittings and brass goods .....	3432	8.96	8.93	8.97	9.03	-	379.90	389.35	365.08	373.84	-
Heating equipment, except electric .....	3433	9.21	9.14	9.36	9.36	-	390.50	394.85	380.95	389.38	-
Fabricated structural metal products .....	344	9.39	9.51	9.68	9.69	-	389.69	396.57	397.85	402.14	-
Fabricated structural metal .....	3441	9.95	10.02	10.38	10.29	-	417.90	429.86	438.04	432.18	-
Metal doors, sash, and trim .....	3442	7.80	7.95	8.06	8.16	-	315.12	313.23	322.40	328.85	-
Fabricated plate work (boiler shops) .....	3443	10.36	10.46	10.35	10.33	-	444.44	462.33	437.81	444.19	-
Sheet metal work .....	3444	9.70	9.78	9.98	10.02	-	393.82	400.00	400.20	404.81	-
Architectural metal work .....	3446	8.83	9.11	9.23	9.03	-	361.15	374.42	376.58	372.94	-
Screw machine products, bolts, etc .....	345	9.96	10.02	10.10	10.10	-	433.26	443.89	434.30	443.39	-
Screw machine products .....	3451	9.25	9.32	9.50	9.51	-	392.20	400.76	395.20	402.27	-
Bolts, nuts, rivets, and washers .....	3452	10.75	10.79	10.78	10.77	-	481.60	494.18	481.87	493.27	-
Metal forgings and stampings .....	346	12.03	12.06	12.27	12.26	-	519.70	525.82	531.29	539.44	-
Iron and steel forgings .....	3462	12.75	12.97	12.79	12.89	-	552.08	574.57	552.53	571.03	-
Automotive stampings .....	3465	14.02	13.95	14.47	14.30	-	625.29	624.96	655.49	664.95	-
Metal stampings, nec .....	3469	9.40	9.47	9.49	9.50	-	391.98	398.69	391.94	392.35	-
Metal services, nec .....	347	8.01	8.17	8.24	8.32	-	335.62	342.32	340.31	347.78	-
Plating and polishing .....	3471	7.96	8.15	8.25	8.28	-	331.14	340.67	338.25	345.28	-
Metal coating and allied services .....	3479	8.11	8.21	8.23	8.40	-	344.68	344.82	344.84	352.80	-
Ordnance and accessories, nec .....	348	11.05	11.20	11.36	11.29	-	474.05	478.24	470.30	468.54	-
Ammunition, except for small arms, nec .....	3483	10.60	10.69	11.04	10.97	-	453.68	446.84	452.64	436.61	-
Misc. fabricated metal products .....	349	9.39	9.50	9.58	9.64	-	396.26	406.60	401.40	405.81	-
Valves and pipe fittings .....	3494	10.16	10.33	10.29	10.38	-	437.90	455.55	432.18	440.11	-
Misc. fabricated wire products .....	3496	8.51	8.52	8.56	8.65	-	347.21	352.73	349.25	355.52	-
Machinery, except electrical .....	35	10.83	10.89	11.07	11.17	11.20	465.69	475.89	470.48	476.96	487.20
Engines and turbines .....	351	13.51	13.54	13.81	14.06	-	610.65	606.59	610.40	631.29	-
Turbines and turbine generator sets .....	3511	13.75	13.76	14.15	14.47	-	584.38	566.91	632.51	667.07	-
Internal combustion engines, nec .....	3519	13.45	13.48	13.71	13.93	-	618.70	618.73	604.61	621.28	-
Farm and garden machinery .....	352	10.12	10.17	10.31	10.65	-	431.11	442.40	424.77	440.91	-
Farm machinery and equipment .....	3523	10.79	10.87	11.05	11.50	-	467.21	478.28	457.47	480.70	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	44.0	44.7	43.0	43.1	-	4.7	5.2	4.0	4.1	-
Construction machinery .....	3531	44.6	45.1	43.8	43.8	-	3.9	4.5	3.9	3.9	-
Mining machinery .....	3532	43.1	43.8	42.1	42.7	-	4.7	5.3	4.1	4.3	-
Oil field machinery .....	3533	45.0	45.9	42.9	42.1	-	6.7	7.3	4.6	4.5	-
Conveyors and conveying equipment .....	3535	43.3	44.0	42.6	43.6	-	4.6	5.2	4.6	5.2	-
Industrial trucks and tractors .....	3537	42.2	43.3	41.7	42.0	-	4.5	4.6	3.3	3.3	-
Metalworking machinery .....	354	43.1	44.2	43.5	43.7	-	5.2	5.7	5.5	5.7	-
Machine tools, metal cutting types .....	3541	42.4	43.8	43.3	44.0	-	4.6	5.1	5.0	5.4	-
Machine tools, metal forming types .....	3542	44.9	45.5	45.1	46.3	-	6.3	7.3	6.9	7.5	-
Special dies, tools, jigs, and fixtures .....	3544	43.7	44.8	44.2	44.0	-	5.8	6.3	6.2	6.3	-
Machine tool accessories .....	3545	42.6	43.6	41.7	42.2	-	4.6	5.3	4.3	4.9	-
Power driven hand tools .....	3546	40.5	41.9	43.3	43.1	-	2.7	3.3	4.0	3.9	-
Special industry machinery .....	355	42.2	43.3	42.5	42.6	-	4.6	5.2	4.9	4.9	-
Food products machinery .....	3551	42.5	43.2	42.8	42.9	-	4.6	4.4	4.3	4.3	-
Textile machinery .....	3552	42.5	43.8	42.6	42.3	-	4.1	4.8	4.1	3.8	-
Printing trades machinery .....	3555	40.3	41.0	39.7	39.4	-	4.6	4.8	5.1	4.4	-
General industrial machinery .....	356	43.4	44.2	42.9	43.2	-	4.6	5.1	4.9	4.9	-
Pumps and pumping equipment .....	3561	44.1	44.7	42.9	43.1	-	4.6	5.4	4.2	4.6	-
Ball and roller bearings .....	3562	44.3	44.3	44.4	44.3	-	5.6	5.2	6.5	6.3	-
Air and gas compressors .....	3563	43.7	44.3	42.3	43.7	-	5.6	6.3	4.4	5.3	-
Blowers and fans .....	3564	41.6	43.6	41.5	42.5	-	2.9	3.9	3.6	3.7	-
Speed changers, drives, and gears .....	3566	42.8	44.3	43.2	43.6	-	4.5	5.6	5.2	5.7	-
Power transmission equipment, nec .....	3568	42.3	44.1	41.5	42.3	-	4.9	5.3	4.9	5.2	-
Office and computing machines .....	357	42.8	43.0	41.7	41.8	-	3.9	4.4	3.5	3.6	-
Electronic computing equipment .....	3573	42.9	43.2	41.8	42.1	-	3.8	4.2	3.3	3.6	-
Refrigeration and service machinery .....	358	42.7	43.1	41.7	41.7	-	4.0	3.9	3.3	3.3	-
Refrigeration and heating equipment .....	3585	43.3	43.2	42.1	42.3	-	4.4	4.0	3.6	3.7	-
Misc. machinery, except electrical .....	359	42.1	42.9	42.0	42.3	-	4.5	4.8	4.8	4.8	-
Carburetors, pistons, rings, and valves .....	3592	42.5	43.3	42.5	43.3	-	4.4	4.4	4.7	5.7	-
Machinery, except electrical, nec .....	3599	42.0	42.9	41.9	42.1	-	4.5	4.9	4.8	4.7	-
Electrical and electronic equipment .....	36	41.4	42.0	41.0	41.4	41.8	3.5	3.8	3.4	3.6	-
Electric distributing equipment .....	361	41.9	42.0	42.5	43.4	-	3.6	3.6	4.0	4.1	-
Transformers .....	3612	42.5	42.3	42.3	43.1	-	3.8	3.4	3.9	4.3	-
Switchgear and switchboard apparatus .....	3613	41.4	41.8	42.8	43.7	-	3.4	3.8	4.1	4.0	-
Electrical industrial apparatus .....	362	42.3	42.8	42.0	42.7	-	4.2	4.4	3.8	4.0	-
Motors and generators .....	3621	41.9	42.3	41.9	42.5	-	4.2	4.4	4.2	4.4	-
Industrial controls .....	3622	42.3	43.4	40.9	42.0	-	3.5	3.9	2.6	2.8	-
Household appliances .....	363	40.6	41.0	40.6	41.6	-	3.3	3.2	3.9	3.9	-
Household refrigerators and freezers .....	3632	40.4	41.2	40.9	41.0	-	4.5	4.3	5.2	4.6	-
Household laundry equipment .....	3633	39.6	40.2	40.2	42.2	-	1.9	1.9	2.1	3.3	-
Electric housewares and fans .....	3634	43.4	43.2	41.6	43.0	-	4.6	3.9	4.1	4.8	-
Electric lighting and wiring equipment .....	364	40.7	41.3	40.0	40.3	-	3.5	3.8	3.1	3.4	-
Electric lamps .....	3641	41.0	41.8	40.3	40.4	-	4.3	4.8	2.7	3.0	-
Current-carrying wiring devices .....	3643	40.8	41.0	38.9	39.8	-	3.5	3.6	2.5	2.9	-
Noncurrent-carrying wiring devices .....	3644	41.8	42.1	41.3	40.5	-	3.6	3.8	3.7	3.0	-
Residential lighting fixtures .....	3645	39.7	40.0	39.3	38.6	-	2.3	2.4	2.5	2.8	-
Radio and TV receiving equipment .....	365	41.2	41.5	42.1	42.9	-	3.3	2.9	4.6	4.7	-
Radio and TV receiving sets .....	3651	41.1	42.5	41.3	42.5	-	2.9	3.0	3.9	4.1	-
Communication equipment .....	366	41.2	42.3	40.2	40.6	-	3.0	3.3	2.4	2.6	-
Telephone and telegraph apparatus .....	3661	42.1	43.9	40.9	40.8	-	3.4	3.9	2.4	2.7	-
Radio and TV communication equipment .....	3662	40.9	41.7	39.9	40.5	-	2.9	3.1	2.4	2.6	-
Electronic components and accessories .....	367	41.2	41.7	40.3	40.7	-	3.6	4.0	3.3	3.4	-
Electronic tubes .....	3671-3	42.6	44.3	42.4	43.2	-	2.7	3.4	4.3	4.5	-
Semiconductors and related devices .....	3674	40.8	41.3	39.9	40.2	-	3.8	4.3	3.5	3.5	-
Electronic components, nec .....	3679	41.5	42.0	40.7	41.1	-	3.8	4.2	3.3	3.4	-
Misc. electrical equipment and supplies .....	369	42.7	43.2	43.5	43.4	-	4.1	4.3	4.8	4.7	-
Storage batteries .....	3691	43.2	43.5	44.8	43.6	-	4.4	4.1	5.1	3.9	-
Engine electrical equipment .....	3694	43.1	43.6	43.5	44.0	-	4.5	4.9	5.5	5.7	-

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	Average hourly earnings					Average weekly earnings				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	\$11.04	\$11.14	\$11.06	\$11.21	-	\$485.76	\$497.96	\$475.58	\$483.15	-
Construction machinery .....	3531	12.21	12.36	12.37	12.66	-	544.57	557.44	541.81	554.51	-
Mining machinery .....	3532	11.38	11.40	11.31	11.19	-	490.48	499.32	476.15	477.81	-
Oil field machinery .....	3533	10.86	11.02	10.60	10.74	-	488.70	505.82	454.74	452.15	-
Conveyors and conveying equipment .....	3535	9.79	9.92	10.03	10.18	-	423.91	436.48	427.28	443.85	-
Industrial trucks and tractors .....	3537	9.90	9.97	9.80	9.84	-	417.78	431.70	408.66	413.28	-
Metalworking machinery .....	354	11.21	11.31	11.52	11.59	-	483.15	499.90	501.12	506.48	-
Machine tools, metal cutting types .....	3541	11.13	11.28	11.42	11.47	-	471.91	494.06	494.49	504.68	-
Machine tools, metal forming types .....	3542	11.76	11.87	11.94	12.01	-	528.02	540.09	538.49	556.06	-
Special dies, tools, jigs, and fixtures .....	3544	11.93	12.01	12.37	12.41	-	521.34	538.05	546.75	546.04	-
Machine tool accessories .....	3545	10.12	10.23	10.26	10.43	-	431.11	446.03	427.84	440.15	-
Power driven hand tools .....	3546	8.81	8.80	9.06	9.04	-	356.81	368.72	392.30	389.62	-
Special industry machinery .....	355	10.88	10.97	11.24	11.32	-	459.14	475.00	477.70	482.23	-
Food products machinery .....	3551	10.99	11.02	11.12	11.21	-	467.08	476.06	475.94	480.91	-
Textile machinery .....	3552	8.94	8.97	9.33	9.39	-	379.95	392.89	397.46	397.20	-
Printing trades machinery .....	3555	11.69	11.76	12.28	12.32	-	471.11	482.16	487.52	485.41	-
General industrial machinery .....	356	10.47	10.54	10.64	10.76	-	454.40	465.87	456.46	464.83	-
Pumps and pumping equipment .....	3561	10.99	11.22	11.20	11.45	-	484.66	501.53	480.48	493.50	-
Ball and roller bearings .....	3562	11.01	10.85	11.13	11.33	-	487.74	480.66	494.17	501.92	-
Air and gas compressors .....	3563	10.55	10.62	10.58	10.70	-	461.04	470.47	447.53	467.59	-
Blowers and fans .....	3564	9.21	9.37	9.52	9.49	-	383.14	408.53	395.08	403.33	-
Speed changers, drives, and gears .....	3566	10.33	10.49	10.68	10.84	-	442.12	464.71	461.38	472.62	-
Power transmission equipment, nec .....	3568	10.70	10.68	10.60	10.69	-	452.61	470.99	439.90	452.19	-
Office and computing machines .....	357	10.39	10.42	10.86	10.89	-	444.69	448.06	452.86	455.20	-
Electronic computing equipment .....	3573	10.40	10.44	10.80	10.85	-	446.16	451.01	451.44	456.79	-
Refrigeration and service machinery .....	358	10.58	10.65	10.70	10.72	-	451.77	459.02	446.19	447.02	-
Refrigeration and heating equipment .....	3585	10.82	10.85	10.89	10.88	-	468.51	468.72	458.47	460.22	-
Misc. machinery, except electrical .....	359	10.48	10.51	10.71	10.78	-	441.21	450.88	449.82	455.99	-
Carburetors, pistons, rings, and valves .....	3592	12.87	13.03	12.89	13.01	-	546.98	564.20	547.63	563.33	-
Machinery, except electrical, nec .....	3599	10.15	10.17	10.43	10.49	-	426.30	436.29	437.02	441.63	-
Electrical and electronic equipment .....	36	9.98	10.03	10.16	10.23	\$10.30	413.17	421.26	416.56	423.52	\$430.54
Electric distributing equipment .....	361	9.40	9.36	9.48	9.45	-	393.86	393.12	402.90	410.13	-
Transformers .....	3612	9.21	9.14	9.27	9.31	-	391.43	366.62	392.12	401.26	-
Switchgear and switchboard apparatus .....	3613	9.57	9.55	9.67	9.57	-	396.20	399.19	413.88	416.21	-
Electrical industrial apparatus .....	362	9.95	9.99	10.08	10.12	-	420.89	427.57	423.36	432.12	-
Motors and generators .....	3621	9.85	9.97	10.12	10.13	-	412.72	421.73	424.03	430.53	-
Industrial controls .....	3622	9.88	9.86	9.86	10.00	-	417.92	427.92	403.27	420.00	-
Household appliances .....	363	9.93	9.95	10.06	10.06	-	403.16	407.95	408.44	418.50	-
Household refrigerators and freezers .....	3632	11.70	11.60	11.92	11.89	-	472.68	477.92	487.53	487.49	-
Household laundry equipment .....	3633	11.80	11.81	11.91	12.01	-	467.28	474.76	478.78	506.82	-
Electric housewares and fans .....	3634	7.37	7.37	7.36	7.38	-	319.86	318.36	306.18	317.34	-
Electric lighting and wiring equipment .....	364	9.27	9.32	9.61	9.68	-	377.29	384.92	384.40	390.10	-
Electric lamps .....	3641	10.49	10.43	10.82	10.94	-	430.09	435.97	436.05	441.98	-
Current-carrying wiring devices .....	3643	6.93	6.93	6.97	6.97	-	364.34	370.23	368.38	376.91	-
Noncurrent-carrying wiring devices .....	3644	9.38	9.36	9.32	9.40	-	392.08	394.06	384.92	380.70	-
Residential lighting fixtures .....	3645	6.73	6.82	6.85	6.91	-	267.18	272.80	269.21	266.73	-
Radio and TV receiving equipment .....	365	9.39	9.33	9.72	9.83	-	386.87	387.20	409.21	421.71	-
Radio and TV receiving sets .....	3651	9.71	9.58	10.24	10.40	-	399.08	407.15	422.91	442.00	-
Communication equipment .....	366	11.90	11.94	12.09	12.18	-	490.28	505.06	486.02	494.51	-
Telephone and telegraph apparatus .....	3661	11.44	11.39	11.56	11.70	-	481.62	500.02	472.80	477.36	-
Radio and TV communication equipment .....	3662	12.06	12.15	12.30	12.37	-	493.25	506.66	490.77	500.99	-
Electronic components and accessories .....	367	8.98	9.05	9.18	9.22	-	369.98	377.39	369.95	375.25	-
Electronic tubes .....	3671-3	11.32	11.27	11.36	11.49	-	482.23	499.28	481.66	496.37	-
Semiconductors and related devices .....	3674	10.92	10.99	11.18	11.22	-	445.54	453.89	446.08	451.04	-
Electronic components, nec .....	3679	8.09	8.18	8.22	8.25	-	335.74	343.56	334.55	339.08	-
Misc. electrical equipment and supplies .....	369	10.70	10.79	10.83	11.15	-	456.69	466.13	471.11	483.91	-
Storage batteries .....	3691	11.49	11.69	11.55	11.60	-	496.37	508.52	517.44	505.76	-
Engine electrical equipment .....	3694	11.24	11.29	11.40	11.96	-	484.44	492.24	495.90	526.24	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	42.5	42.7	43.1	43.7	44.2	4.5	4.6	5.1	5.4	
Motor vehicles and equipment .....	371	42.9	42.8	44.0	44.8	45.4	4.5	4.4	5.7	6.1	
Motor vehicles and car bodies .....	3711	42.2	41.3	44.3	45.3	-	4.0	3.5	5.8	6.6	
Truck and bus bodies .....	3713	41.4	42.5	42.4	41.2	-	3.4	3.8	4.3	3.6	-
Motor vehicle parts and accessories .....	3714	44.0	44.3	44.2	45.2	-	5.4	5.4	6.1	6.4	
Truck trailers .....	3715	40.4	41.8	40.5	40.6	-	2.3	3.5	2.8	2.5	-
Aircraft and parts .....	372	42.9	43.6	42.5	43.3	-	5.4	5.7	5.1	5.4	
Aircraft .....	3721	42.7	43.0	42.3	43.0	-	4.9	5.1	4.8	4.9	
Aircraft engines and engine parts .....	3724	42.6	43.9	42.2	43.1	-	5.5	5.9	5.2	5.9	
Aircraft equipment, nec .....	3728	43.5	44.1	43.2	43.9	-	5.9	6.5	5.5	5.8	
Ship and boat building and repairing .....	373	40.2	40.9	40.8	41.0	-	3.1	3.2	3.0	3.0	
Ship building and repairing .....	3731	40.7	41.2	41.6	41.7	-	3.3	3.3	3.4	3.4	-
Boat building and repairing .....	3732	39.4	40.4	39.5	39.9	-	2.6	3.0	2.5	2.2	
Railroad equipment .....	374	42.0	42.7	43.1	43.6	-	3.2	3.9	4.7	4.4	-
Guided missiles, space vehicles, and parts .....	376	42.8	44.0	43.5	43.5	-	4.8	5.1	4.7	4.9	
Guided missiles and space vehicles .....	3761	42.7	43.9	43.6	43.3	-	4.7	5.0	4.7	4.8	
Miscellaneous transportation equipment .....	379	39.2	39.9	40.2	39.2	-	2.6	3.1	2.7	2.2	-
Travel trailers and campers .....	3792	37.4	37.3	38.5	38.6	-	1.1	1.5	1.8	2.1	-
Instruments and related products .....	38	41.8	42.2	41.7	41.9	42.4	3.4	3.6	3.2	3.3	-
Engineering and scientific instruments .....	381	42.5	43.5	41.9	42.5	-	3.9	4.2	3.1	3.5	-
Measuring and controlling devices .....	382	41.8	42.2	41.2	42.5	-	3.0	3.5	2.9	3.1	-
Environmental controls .....	3822	40.9	40.1	39.7	40.6	-	3.8	3.4	2.2	2.6	
Process control instruments .....	3823	43.5	45.1	43.2	44.2	-	3.8	4.6	4.1	4.3	
Instruments to measure electricity .....	3825	41.4	41.3	40.5	42.5	-	2.6	3.0	2.4	2.7	
Optical instruments and lenses .....	383	42.7	43.4	44.3	44.8	-	3.8	3.7	3.7	4.0	-
Medical instruments and supplies .....	384	41.5	42.1	40.9	40.6	-	3.7	3.8	2.8	2.9	-
Surgical and medical instruments .....	3841	41.4	42.1	40.4	40.0	-	3.4	3.6	2.4	2.7	
Surgical appliances and supplies .....	3842	41.6	41.9	41.1	41.1	-	4.0	3.9	3.1	3.0	-
Ophthalmic goods .....	385	40.0	39.8	39.6	40.4	-	2.5	2.2	3.1	3.3	-
Photographic equipment and supplies .....	386	42.8	42.7	45.0	42.7	-	4.1	4.2	4.8	4.1	-
Watches, clocks, and watchcases .....	387	40.2	40.0	42.7	42.4	-	2.4	2.8	4.1	3.5	-
Miscellaneous manufacturing .....	39	39.7	40.0	39.6	39.8	39.8	3.1	2.8	2.9	2.8	
Jewelry, silverware, and plated ware .....	391	39.3	39.5	39.6	39.8	-	3.5	3.2	3.7	3.6	-
Jewelry, precious metal .....	3911	39.2	39.3	38.8	39.2	-	3.6	3.2	3.5	3.6	
Musical instruments .....	393	40.6	41.7	39.7	39.9	-	2.7	3.1	2.2	2.5	-
Toys and sporting goods .....	394	40.1	39.7	39.1	39.5	-	3.0	2.5	2.1	2.2	
Dolls, games, toys, and children's vehicles .....	3942,4	39.4	38.5	38.9	39.4	-	2.8	2.0	2.2	2.0	-
Sporting and athletic goods, nec .....	3949	40.7	40.6	39.2	39.6	-	3.2	2.8	2.1	2.3	
Pens, pencils, office, and art supplies .....	395	41.2	42.0	40.0	40.0	-	2.9	3.4	2.8	2.7	
Costume jewelry and notions .....	396	36.7	37.2	38.5	39.4	-	2.8	2.0	2.7	2.8	-
Costume jewelry .....	3961	32.9	35.5	36.2	38.5	-	1.8	1.7	2.3	2.8	
Miscellaneous manufactures .....	399	40.2	40.6	40.3	40.0	-	3.1	2.9	3.4	3.2	-
Signs and advertising displays .....	3993	40.0	40.3	40.9	40.3	-	2.9	2.9	3.8	3.2	-
<b>Nondurable goods</b> .....		40.6	40.9	40.3	40.5	40.6	3.9	3.9	3.9	3.9	3.9
Food and kindred products .....	20	40.7	41.1	40.8	40.9	41.1	4.4	4.3	4.6	4.5	-
Meat products .....	201	41.1	41.0	40.9	41.0	-	4.7	4.7	4.8	4.9	
Meat packing plants .....	2011	43.2	43.0	42.6	42.3	-	5.7	5.8	6.2	5.6	-
Sausages and other prepared meats .....	2013	41.3	40.9	40.6	41.2	-	4.3	4.7	4.4	4.7	-
Poultry dressing plants .....	2016	39.2	39.2	39.5	39.9	-	4.0	3.4	3.6	4.2	-
Dairy products .....	202	41.2	41.1	40.8	40.9	-	4.4	4.2	4.0	4.1	
Cheese, natural and processed .....	2022	39.3	40.1	39.4	39.0	-	3.7	4.1	3.4	3.6	-
Fluid milk .....	2026	42.6	42.0	42.1	42.3	-	5.1	4.6	4.7	4.7	
Preserved fruits and vegetables .....	203	39.0	39.8	40.5	40.1	-	3.6	3.5	4.9	4.2	-
Canned specialties .....	2032	39.9	41.4	43.7	44.0	-	6.4	6.4	5.8	6.6	-
Canned fruits and vegetables .....	2033	37.9	40.0	39.2	39.1	-	3.2	3.0	5.1	4.2	
Frozen fruits and vegetables .....	2037	37.3	36.6	40.0	39.0	-	2.6	2.7	4.8	3.7	-
Grain mill products .....	204	44.7	45.0	45.0	45.3	-	6.4	6.4	6.9	6.8	-
Flour and other grain mill products .....	2041	47.8	47.0	47.5	48.0	-	7.6	6.9	8.0	7.9	-
Prepared feeds, nec .....	2048	43.9	43.8	43.6	43.4	-	6.3	6.5	6.9	6.5	-
Bakery products .....	205	40.3	40.5	40.3	39.9	-	4.4	4.1	4.2	4.1	
Bread, cake, and related products .....	2051	39.1	39.3	39.3	38.7	-	4.3	3.9	4.2	4.2	
Cookies and crackers .....	2052	43.1	43.5	42.7	43.1	-	4.6	4.6	4.2	4.0	-

See footnotes at end of table.



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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$13.18	\$13.25	\$13.49	\$13.61	\$13.78	\$560.15	\$565.78	\$581.42	\$594.76	\$609.08
Motor vehicles and equipment .....	371	13.79	13.87	14.16	14.26	14.48	591.59	593.64	623.04	638.85	657.39
Motor vehicles and car bodies .....	3711	15.66	15.78	16.08	16.15	-	660.85	651.71	712.34	731.60	-
Truck and bus bodies .....	3713	11.56	11.70	11.84	11.72	-	478.58	497.25	502.02	482.86	-
Motor vehicle parts and accessories .....	3714	12.96	13.03	13.38	13.47	-	570.24	577.23	591.40	608.84	-
Truck trailers .....	3715	9.19	9.31	9.20	9.28	-	371.28	389.16	372.60	376.77	-
Aircraft and parts .....	372	13.43	13.48	13.77	13.91	-	576.15	587.73	585.23	602.30	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$13.71	\$13.84	\$13.91	\$14.12	-	\$584.05	\$607.58	\$587.00	\$608.57	-
Aircraft equipment, nec .....	3728	12.47	12.47	12.64	12.77	-	542.45	549.93	546.05	560.60	-
Ship and boat building and repairing .....	373	10.44	10.50	10.41	10.51	-	419.69	429.45	424.73	430.91	-
Ship building and repairing .....	3731	11.70	11.73	11.59	11.68	-	476.19	483.28	482.14	487.06	-
Boat building and repairing .....	3732	8.09	8.19	8.49	8.56	-	318.75	330.88	335.36	341.54	-
Railroad equipment .....	374	12.18	12.34	12.32	12.30	-	511.56	526.92	530.99	536.28	-
Guided missiles, space vehicles, and parts .....	376	12.95	13.14	13.35	13.43	-	554.26	578.16	580.73	584.21	-
Guided missiles and space vehicles .....	3761	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Miscellaneous transportation equipment .....	379	\$10.40	\$10.59	\$10.41	\$10.46	-	\$407.68	\$422.54	\$418.48	\$410.03	-
Travel trailers and campers .....	3792	8.49	8.73	8.73	8.94	-	317.53	325.63	336.11	345.08	-
Instruments and related products .....	38	9.83	9.84	10.05	10.02	10.06	410.89	415.25	419.09	419.84	426.54
Engineering and scientific instruments .....	381	10.74	10.75	11.14	11.19	-	456.45	467.63	466.77	475.58	-
Measuring and controlling devices .....	382	9.75	9.76	9.72	9.69	-	407.55	411.87	400.46	411.83	-
Environmental controls .....	3822	9.11	9.24	9.12	9.13	-	372.60	370.52	362.06	370.68	-
Process control instruments .....	3823	9.54	9.66	9.48	9.52	-	414.99	435.67	409.54	420.78	-
Instruments to measure electricity .....	3825	10.11	9.99	9.85	9.71	-	418.55	412.59	398.93	412.68	-
Optical instruments and lenses .....	383	10.61	10.54	11.01	11.09	-	453.05	457.44	487.74	496.83	-
Medical instruments and supplies .....	384	8.69	8.75	9.03	9.13	-	360.64	368.38	369.33	370.68	-
Surgical and medical instruments .....	3841	8.79	8.93	9.34	9.49	-	363.91	375.95	377.34	379.60	-
Surgical appliances and supplies .....	3842	8.57	8.54	8.70	8.75	-	356.51	357.83	357.57	359.63	-
Ophthalmic goods .....	385	7.47	7.56	7.74	7.75	-	298.80	300.89	306.50	313.10	-
Photographic equipment and supplies .....	386	13.56	13.46	13.64	13.37	-	580.37	574.74	613.80	570.90	-
Watches, clocks, and watchcases .....	387	7.07	7.19	7.44	7.37	-	284.21	287.60	317.69	312.49	-
Miscellaneous manufacturing .....	39	7.80	7.91	8.07	8.09	8.17	309.66	316.40	319.57	321.98	325.17
Jewelry, silverware, and plated ware .....	391	8.47	8.54	8.78	8.81	-	332.87	337.33	347.69	350.64	-
Jewelry, precious metal .....	3911	8.59	8.68	8.90	9.01	-	336.73	341.12	345.32	353.19	-
Musical instruments .....	393	7.66	7.77	7.99	8.03	-	311.00	324.01	317.20	320.40	-
Toys and sporting goods .....	394	7.12	7.25	7.20	7.25	-	285.51	287.83	281.52	286.38	-
Dolls, games, toys, and children's vehicles .....	3942,4	6.87	7.15	6.97	7.06	-	270.68	275.28	271.13	278.16	-
Sporting and athletic goods, nec .....	3949	7.33	7.33	7.38	7.41	-	298.33	297.60	289.30	293.44	-
Pens, pencils, office, and art supplies .....	395	7.78	7.80	8.00	8.02	-	320.54	327.60	320.00	320.80	-
Costume jewelry and notions .....	396	6.40	6.45	6.91	6.88	-	234.88	239.94	266.04	271.07	-
Costume jewelry .....	3961	5.87	5.97	6.61	6.54	-	193.12	211.94	239.28	251.79	-
Miscellaneous manufactures .....	399	8.57	8.65	8.84	8.86	-	344.51	351.19	356.25	354.40	-
Signs and advertising displays .....	3993	8.97	8.91	9.33	9.29	-	358.80	359.07	381.60	374.39	-
<b>Nondurable goods</b> .....		9.26	9.32	9.48	9.52	9.60	375.96	381.19	382.04	385.56	389.76
Food and kindred products .....	20	8.98	9.07	9.04	9.15	9.21	365.49	372.78	368.83	374.24	378.53
Meat products .....	201	7.51	7.54	7.62	7.66	-	308.66	309.14	311.66	314.06	-
Meat packing plants .....	2011	8.47	8.47	8.48	8.51	-	365.90	364.21	361.25	359.97	-
Sausages and other prepared meats .....	2013	8.87	8.91	8.95	9.06	-	366.33	364.42	363.37	373.27	-
Poultry dressing plants .....	2016	6.17	6.22	6.39	6.44	-	241.86	243.82	252.41	256.96	-
Dairy products .....	202	9.77	9.77	9.97	10.02	-	402.52	401.55	406.78	409.82	-
Cheese, natural and processed .....	2022	9.10	9.05	9.16	9.19	-	357.63	362.91	360.90	358.41	-
Fluid milk .....	2026	10.22	10.26	10.38	10.43	-	435.37	430.92	437.00	441.19	-
Preserved fruits and vegetables .....	203	8.25	8.55	8.15	8.34	-	321.75	340.29	330.08	334.43	-
Canned specialties .....	2032	10.44	10.38	10.37	10.44	-	416.56	429.73	453.17	459.36	-
Canned fruits and vegetables .....	2033	8.06	8.57	7.92	8.21	-	305.47	342.80	310.46	321.01	-
Frozen fruits and vegetables .....	2037	7.58	7.96	7.45	7.53	-	282.73	291.34	298.00	293.67	-
Grain mill products .....	204	10.98	11.04	11.09	11.28	-	490.81	496.80	499.05	510.98	-
Flour and other grain mill products .....	2041	10.72	10.68	10.92	11.18	-	512.42	501.96	518.70	536.64	-
Prepared feeds, nec .....	2048	8.63	8.64	8.69	8.65	-	378.86	378.43	378.88	375.41	-
Bakery products .....	205	10.17	10.22	10.25	10.29	-	409.85	413.91	413.08	410.57	-
Bread, cake, and related products .....	2051	10.13	10.16	10.19	10.27	-	396.08	399.29	400.47	397.45	-
Cookies and crackers .....	2052	10.25	10.36	10.38	10.34	-	441.78	450.66	443.23	445.65	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	41.4	41.7	41.2	41.9	-	4.3	3.9	4.4	4.4	-
Cane and beet sugar .....	2061-3	45.3	45.6	42.2	44.8	-	7.5	6.9	7.0	7.4	-
Confectionery products .....	2065	39.6	40.0	40.6	40.4	-	3.2	2.9	3.6	3.4	-
Fats and oils .....	207	44.0	44.2	43.8	44.7	-	5.7	5.7	5.6	5.9	-
Beverages .....	208	40.6	41.6	40.0	40.6	-	3.7	3.6	3.3	3.4	-
Malt beverages .....	2082	42.8	43.6	42.4	42.7	-	6.4	5.4	5.3	5.8	-
Bottled and canned soft drinks .....	2086	39.4	41.1	38.2	39.5	-	2.7	3.2	2.0	2.5	-
Misc. food and kindred products .....	209	38.6	39.4	38.0	38.5	-	3.8	4.0	3.7	3.8	-
Tobacco manufactures .....	21	40.9	40.5	41.3	40.3	39.4	3.7	3.6	2.6	2.6	-
Cigarettes .....	211	41.1	41.1	40.9	40.8	-	4.1	4.0	2.5	2.9	-
Textile mill products .....	22	42.0	42.1	41.2	41.4	41.6	4.6	4.5	4.2	4.2	-
Weaving mills, cotton .....	221	43.2	42.6	41.5	41.3	-	5.8	5.8	4.4	4.0	-
Weaving mills, synthetics .....	222	42.7	43.0	42.1	42.1	-	4.9	4.9	4.7	4.6	-
Weaving and finishing mills, wool .....	223	41.4	42.3	42.6	41.9	-	3.1	4.0	3.6	3.6	-
Narrow fabric mills .....	224	40.9	42.0	41.9	42.1	-	3.8	3.8	4.3	4.4	-
Knitting mills .....	225	40.1	40.1	39.8	40.3	-	3.6	3.4	3.6	3.6	-
Women's hosiery, except socks .....	2251	39.9	39.8	38.9	39.4	-	3.7	3.1	3.0	3.1	-
Hosiery, nec .....	2252	40.8	39.3	39.0	39.2	-	3.4	2.8	2.7	2.6	-
Knit outerwear mills .....	2253	38.4	38.1	39.3	40.2	-	3.4	3.0	4.0	4.3	-
Knit underwear mills .....	2254	39.8	42.0	39.5	39.3	-	2.3	2.2	2.0	2.1	-
Circular knit fabric mills .....	2257	42.8	43.4	41.1	42.0	-	5.2	5.5	5.1	5.2	-
Textile finishing, except wool .....	226	42.7	42.7	42.3	42.4	-	5.5	5.1	4.8	5.5	-
Finishing plants, cotton .....	2261	43.3	43.2	43.6	43.6	-	5.7	5.4	5.3	6.2	-
Finishing plants, synthetics .....	2262	43.0	43.0	42.0	41.9	-	5.6	5.0	4.5	5.0	-
Floor covering mills .....	227	43.4	44.5	43.2	43.4	-	4.1	4.5	4.6	4.5	-
Yarn and thread mills .....	228	42.5	42.3	40.4	40.6	-	5.0	4.8	4.0	3.9	-
Yarn mills, except wool .....	2281	43.4	42.9	40.9	41.1	-	5.4	5.0	4.3	4.2	-
Throwing and winding mills .....	2282	37.9	36.2	37.8	38.3	-	2.7	3.1	2.4	2.5	-
Miscellaneous textile goods .....	229	43.4	43.8	42.5	42.5	-	5.2	5.3	4.4	4.4	-
Apparel and other textile products .....	23	37.4	37.6	37.0	37.3	37.3	2.0	2.0	1.9	2.0	-
Men's and boys' suits and coats .....	231	36.7	37.1	36.5	37.0	-	1.5	1.7	1.4	1.4	-
Men's and boys' furnishings .....	232	37.7	37.4	36.6	37.0	-	1.8	1.8	1.3	1.5	-
Men's and boys' shirts and nightwear .....	2321	37.7	37.7	37.2	37.2	-	1.6	1.6	1.2	1.2	-
Men's and boys' separate trousers .....	2327	37.0	37.8	38.2	35.9	-	1.4	1.7	1.1	1.2	-
Men's and boys' work clothing .....	2328	37.2	36.3	35.3	35.8	-	1.9	1.7	1.2	1.4	-
Women's and misses' outerwear .....	233	35.5	36.1	35.5	35.8	-	1.5	1.7	1.6	1.6	-
Women's and misses' blouses and waists .....	2331	35.9	35.8	36.4	36.2	-	1.4	1.5	1.3	1.3	-
Women's and misses' dresses .....	2335	35.0	35.0	35.1	35.0	-	1.4	1.3	1.5	1.4	-
Women's and misses' suits and coats .....	2337	35.1	35.4	35.8	36.1	-	1.5	1.6	2.1	2.1	-
Women's and misses' outerwear, nec .....	2339	35.7	36.8	35.3	35.9	-	1.6	1.9	1.5	1.6	-
Women's and children's undergarments .....	234	36.5	36.2	36.6	36.4	-	1.8	1.9	2.2	1.9	-
Women's and children's underwear .....	2341	36.7	36.5	39.1	38.9	-	1.7	1.8	2.2	1.9	-
Brassieres and allied garments .....	2342	37.3	36.3	35.6	35.9	-	2.6	2.3	2.0	2.2	-
Children's outerwear .....	236	37.8	36.3	36.8	37.7	-	2.0	2.2	1.6	1.9	-
Children's dresses and blouses .....	2361	36.9	37.2	36.5	37.6	-	1.8	2.1	1.3	1.7	-
Misc. apparel and accessories .....	238	39.3	39.3	39.2	39.2	-	2.9	2.4	2.9	2.9	-
Misc. fabricated textile products .....	239	39.9	39.9	39.6	39.7	-	3.2	3.1	3.4	3.4	-
Curtains and draperies .....	2391	37.2	37.5	36.2	36.0	-	1.6	1.6	1.4	1.1	-
House furnishings, nec .....	2392	40.5	39.7	40.7	39.7	-	3.7	3.2	3.6	3.3	-
Automotive and apparel trimmings .....	2396	42.4	42.2	42.7	43.5	-	5.9	5.4	6.2	6.9	-
Paper and allied products .....	26	43.8	44.2	43.3	43.3	43.8	5.4	5.5	5.3	6.5	-
Paper and pulp mills .....	261,2,6	45.7	46.0	45.2	45.2	-	6.6	6.8	6.4	11.4	-
Paper mills, except building paper .....	262	46.0	46.3	45.3	45.3	-	6.8	7.0	6.3	12.1	-
Paperboard mills .....	263	44.9	44.8	44.5	44.3	-	8.1	7.3	7.3	6.7	-
Misc. converted paper products .....	264	42.5	43.0	41.7	41.7	-	4.1	4.3	4.3	4.0	-
Paper coating and glazing .....	2641	44.4	44.7	43.1	42.9	-	4.6	4.7	4.3	4.3	-
Envelopes .....	2642	41.8	42.3	40.9	41.4	-	3.2	3.8	3.5	3.3	-
Bags, except textile bags .....	2643	42.3	43.1	41.7	41.7	-	4.4	4.8	4.6	4.5	-
Paperboard containers and boxes .....	265	43.3	43.8	43.1	43.2	-	5.0	5.1	4.9	4.7	-
Folding paperboard boxes .....	2651	43.6	43.6	42.9	43.0	-	5.2	5.2	4.9	4.7	-
Corrugated and solid fiber boxes .....	2653	43.7	44.2	43.9	43.8	-	5.4	5.5	5.4	5.3	-
Sanitary food containers .....	2654	42.3	44.0	41.6	42.7	-	4.2	4.7	3.6	3.5	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Dec. 1988 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	\$9.06	\$9.07	\$9.26	\$9.24		\$375.08	\$378.22	\$381.51	\$387.16	
Cane and beet sugar .....	2061-3	10.14	10.17	10.49	10.36		459.34	463.75	442.68	464.13	
Confectionery products .....	2065	7.94	7.97	8.20	8.18		314.42	318.80	332.92	330.47	
Fats and oils .....	207	9.23	9.26	9.18	9.25		406.12	409.29	402.08	413.48	
Beverages .....	208	12.13	12.07	12.25	12.36		492.48	502.11	490.00	501.82	
Malt beverages .....	2082	16.87	16.48	17.01	17.28		722.04	721.82	721.22	737.86	
Bottled and canned soft drinks .....	2086	9.44	9.50	9.76	9.83		371.94	390.45	372.83	388.29	
Misc. food and kindred products .....	209	8.43	8.48	8.51	8.67		325.40	334.11	323.38	333.80	
Tobacco manufactures .....	21	13.75	13.69	13.92	14.45	\$14.40	562.38	554.45	574.90	582.34	\$567.36
Cigarettes .....	211	17.03	17.10	17.63	17.73	-	699.93	702.81	721.07	723.38	-
Textile mill products .....	22	7.29	7.31	7.45	7.47	7.51	306.18	307.75	306.94	309.26	312.42
Weaving mills, cotton .....	221	7.71	7.70	7.72	7.69	-	333.07	329.56	320.38	317.60	-
Weaving mills, synthetics .....	222	7.87	7.83	8.03	8.03		336.05	336.69	338.06	338.06	
Weaving and finishing mills, wool .....	223	7.86	7.80	7.98	8.18		325.40	329.94	339.95	342.74	
Narrow fabric mills .....	224	6.74	6.69	6.88	6.92		275.67	280.98	288.27	291.33	
Knitting mills .....	225	6.64	6.65	6.71	6.73		266.26	266.67	267.06	271.22	
Women's hosiery, except socks .....	2251	6.53	6.55	6.63	6.68		260.55	260.69	257.91	263.19	
Hosiery, nec .....	2252	6.35	6.29	6.46	6.50		259.08	247.20	251.94	254.80	
Knit outerwear mills .....	2253	6.60	6.65	6.33	6.34		253.44	253.37	248.77	254.87	
Knit underwear mills .....	2254	6.24	6.19	6.54	6.59		248.35	259.98	258.33	258.99	
Circular knit fabric mills .....	2257	7.26	7.33	7.58	7.60		310.73	318.12	311.54	319.20	
Textile finishing, except wool .....	226	7.66	7.63	7.90	7.96		327.08	325.80	334.17	337.50	
Finishing plants, cotton .....	2261	7.69	7.68	7.89	7.93		332.98	331.78	344.00	345.75	
Finishing plants, synthetics .....	2262	7.87	7.85	8.17	8.19		338.41	337.55	343.14	343.16	
Floor covering mills .....	227	7.50	7.62	7.89	7.82		325.50	339.09	340.85	339.39	
Yarn and thread mills .....	228	6.95	6.96	7.15	7.18		295.38	294.41	288.86	291.51	
Yarn mills, except wool .....	2281	6.94	6.93	7.13	7.17		301.20	297.30	291.62	294.69	
Throwing and winding mills .....	2282	7.05	7.18	7.30	7.27		267.20	274.28	275.94	278.44	
Miscellaneous textile goods .....	229	8.16	8.28	8.46	8.54		354.14	362.66	359.55	362.95	-
Apparel and other textile products .....	23	5.98	6.00	6.20	6.23	6.27	223.65	225.60	229.40	232.38	233.87
Men's and boys' suits and coats .....	231	6.82	6.84	6.97	7.03	-	250.29	253.76	254.41	260.11	-
Men's and boys' furnishings .....	232	5.48	5.52	5.62	5.68		206.60	206.45	205.69	210.16	
Men's and boys' shirts and nightwear .....	2321	5.31	5.36	5.53	5.57		200.19	202.07	205.72	207.20	
Men's and boys' separate trousers .....	2327	5.37	5.47	5.47	5.47		198.69	206.77	198.01	196.37	
Men's and boys' work clothing .....	2328	5.48	5.53	5.59	5.63		203.86	200.74	197.33	201.55	
Women's and misses' outerwear .....	233	5.75	5.75	6.01	6.01		204.13	207.58	213.36	215.16	
Women's and misses' blouses and waists .....	2331	5.10	5.08	5.16	5.15		183.09	181.86	187.82	186.43	
Women's and misses' dresses .....	2335	6.09	6.12	6.45	6.44		213.15	214.20	226.40	225.40	
Women's and misses' suits and coats .....	2337	6.54	6.50	6.63	6.65		229.55	230.10	237.35	240.07	
Women's and misses' outerwear, nec .....	2339	5.58	5.60	5.88	5.87		199.21	206.08	207.56	210.73	
Women's and children's undergarments .....	234	5.57	5.58	5.78	5.77		214.45	213.16	223.11	221.57	
Women's and children's underwear .....	2341	5.38	5.39	5.65	5.64		208.21	207.52	220.92	219.40	
Brassieres and allied garments .....	2342	6.67	6.71	6.53	6.57		248.79	243.57	232.47	235.86	
Children's outerwear .....	236	5.37	5.39	5.50	5.55		202.99	206.44	202.40	209.24	
Children's dresses and blouses .....	2361	5.27	5.30	5.56	5.61		194.46	197.16	202.94	210.94	
Misc. apparel and accessories .....	238	5.80	5.82	6.12	6.12		227.94	228.73	239.90	239.90	
Misc. fabricated textile products .....	239	7.22	7.25	7.42	7.51		288.08	289.28	293.83	298.15	
Curtains and draperies .....	2391	5.79	5.84	6.11	6.04		215.39	219.00	221.18	217.44	
House furnishings, nec .....	2392	6.08	6.10	6.32	6.30		246.24	242.17	257.22	250.11	
Automotive and apparel trimmings .....	2396	11.14	11.21	11.38	11.68		472.34	473.06	485.93	508.08	
Paper and allied products .....	26	11.49	11.53	11.67	11.70	11.78	503.26	509.63	505.31	506.61	515.96
Paper and pulp mills .....	261,2,6	14.17	14.09	14.41	14.48	-	647.57	648.14	651.33	654.50	-
Paper mills, except building paper .....	262	14.24	14.17	14.41	14.55		655.04	656.07	652.77	659.12	
Paperboard mills .....	263	14.59	14.47	14.60	14.59		655.09	648.26	649.70	646.34	
Misc. converted paper products .....	264	9.90	10.04	10.09	10.10		420.75	431.72	420.75	421.17	
Paper coating and glazing .....	2641	11.16	11.26	11.37	11.29		495.50	503.32	490.05	484.34	
Envelopes .....	2642	9.37	9.49	9.64	9.63		391.67	401.43	394.28	398.68	
Bags, except textile bags .....	2643	9.17	9.20	9.41	9.39	-	387.89	396.52	392.40	391.56	
Paperboard containers and boxes .....	265	9.82	9.91	10.00	10.03		425.21	434.06	431.00	433.30	
Folding paperboard boxes .....	2651	10.21	10.37	10.44	10.49		445.16	452.13	447.88	451.07	
Corrugated and solid fiber boxes .....	2653	10.03	10.08	10.21	10.22		438.31	445.54	448.22	447.64	
Sanitary food containers .....	2654	9.50	9.55	9.74	9.87		401.85	420.20	405.18	421.45	

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>2</sup>	Dec. 1988 <sup>2</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>2</sup>	Dec. 1988 <sup>2</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	38.3	38.7	38.1	38.1	38.4	3.4	3.4	3.4	3.2	
Newspapers .....	271	34.1	34.2	33.5	34.0	-	1.8	1.8	1.5	1.8	
Periodicals .....	272	38.6	38.3	38.4	38.1	-	3.4	3.4	3.6	3.0	
Books .....	273	38.6	40.1	38.2	38.3	-	3.4	3.9	3.6	3.0	-
Book publishing .....	2731	37.8	38.7	37.2	37.5	-	3.0	3.0	2.6	2.0	
Book printing .....	2732	39.9	42.3	39.7	39.5	-	4.2	5.4	5.0	4.6	-
Miscellaneous publishing .....	274	37.5	37.3	36.7	36.5	-	3.2	2.9	2.5	2.4	-
Commercial printing .....	275	39.8	40.0	39.6	39.5	-	3.9	3.8	4.0	3.8	-
Commercial printing, letterpress .....	2751	39.8	39.8	39.4	39.5	-	3.4	3.5	3.3	3.4	-
Commercial printing, lithographic .....	2752	39.6	39.8	39.7	39.3	-	3.9	3.8	4.2	3.9	-
Manifold business forms .....	276	42.1	44.1	41.2	41.7	-	4.5	5.8	3.8	4.1	-
Blankbooks and bookbinding .....	278	39.2	40.6	39.4	39.2	-	3.4	3.8	3.8	3.3	-
Printing trade services .....	279	38.3	39.1	38.9	38.5	-	4.1	4.4	4.3	4.0	-
Chemicals and allied products .....	28	42.7	43.0	42.3	42.6	42.8	4.1	4.2	4.2	4.1	-
Industrial inorganic chemicals .....	281	43.1	43.2	43.0	43.0	-	4.3	4.3	4.7	4.4	-
Industrial inorganic chemicals, nec .....	2819	43.5	43.4	43.1	43.0	-	4.1	4.0	4.6	4.4	-
Plastics materials and synthetics .....	282	43.5	43.6	43.8	43.8	-	4.5	4.4	5.4	5.0	-
Plastics materials and resins .....	2821	44.3	44.7	44.0	44.6	-	5.0	5.2	5.6	5.4	-
Organic fibers, noncellulosic .....	2824	42.7	43.0	43.9	43.3	-	3.8	3.8	5.3	4.6	-
Drugs .....	283	41.7	42.1	40.7	41.3	-	3.3	3.6	3.1	3.6	-
Pharmaceutical preparations .....	2834	41.5	42.2	40.3	41.1	-	3.3	3.7	3.2	3.6	-
Soap, cleaners, and toilet goods .....	284	41.6	41.7	39.5	40.4	-	3.4	3.5	2.8	2.4	-
Soap and other detergents .....	2841	44.6	44.9	42.5	43.6	-	5.6	5.6	4.8	4.3	-
Polishing, sanitation, and finishing preparations .....	2842,3	41.6	42.5	40.6	40.8	-	3.0	3.3	3.2	2.4	-
Toilet preparations .....	2844	39.8	39.4	37.4	38.6	-	2.3	2.4	1.5	1.3	-
Paints and allied products .....	285	41.3	42.0	41.6	41.7	-	3.2	3.0	3.6	3.3	-
Industrial organic chemicals .....	286	44.6	45.3	44.4	44.9	-	5.5	5.7	5.4	5.6	-
Cyclic crudes and intermediates .....	2865	43.7	44.8	42.5	43.0	-	6.2	6.3	5.0	4.3	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	44.9	45.4	44.9	45.4	-	5.3	5.5	5.5	5.9	-
Agricultural chemicals .....	287	42.8	43.6	44.0	43.6	-	4.7	4.9	5.7	4.7	-
Miscellaneous chemical products .....	289	42.0	42.3	42.3	42.5	-	3.8	3.7	3.9	3.8	-
Petroleum and coal products .....	29	44.1	44.5	44.7	44.1	43.8	5.2	5.1	6.0	5.3	-
Petroleum refining .....	291	44.2	44.4	44.7	44.5	-	4.9	4.7	5.7	5.1	-
Paving and roofing materials .....	295	44.6	45.8	45.7	43.4	-	7.1	7.5	8.1	6.7	-
Rubber and misc. plastics products .....	30	42.0	42.4	41.6	41.9	42.2	4.4	4.6	4.3	4.3	-
Tires and inner tubes .....	301	45.8	46.2	44.9	45.4	-	6.3	6.7	6.5	6.5	-
Rubber and plastics footwear .....	302	42.9	44.1	41.4	40.8	-	3.3	3.7	2.3	2.5	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	44.6	45.3	43.8	43.8	-	5.1	5.3	4.3	4.1	-
Fabricated rubber products, nec .....	306	41.8	42.8	41.6	41.9	-	4.0	4.5	3.7	3.9	-
Miscellaneous plastics products .....	307	41.4	41.8	41.1	41.5	-	4.2	4.3	4.2	4.2	-
Leather and leather products .....	31	38.4	38.6	37.9	37.6	37.7	2.4	2.3	2.0	2.0	-
Leather tanning and finishing .....	311	41.2	42.1	40.8	40.7	-	4.0	4.9	3.5	3.9	-
Footwear, except rubber .....	314	38.0	38.2	37.4	36.9	-	1.9	1.9	1.6	1.5	-
Men's footwear, except athletic .....	3143	37.1	38.0	37.1	36.5	-	1.4	1.6	1.0	.9	-
Women's footwear, except athletic .....	3144	39.2	38.5	37.3	36.8	-	2.7	2.2	2.0	2.1	-
Luggage .....	316	40.9	40.5	38.9	39.2	-	4.8	3.8	3.0	3.8	-
Handbags and personal leather goods .....	317	37.4	36.9	37.4	36.8	-	3.4	2.2	2.7	2.0	-
<b>Transportation and public utilities .....</b>		<b>39.3</b>	<b>39.2</b>	<b>39.5</b>	<b>39.4</b>	<b>39.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	45.2	44.0	45.2	46.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	33.2	33.6	34.6	33.8	-	-	-	-	-	-
Local and suburban transportation .....	411	38.3	38.3	38.7	38.6	-	-	-	-	-	-
Intercity highway transportation .....	413	40.4	38.4	40.7	38.2	-	-	-	-	-	-
Trucking and warehousing .....	42	38.2	38.4	38.7	38.4	-	-	-	-	-	-
Trucking and trucking terminals .....	421,3	38.1	38.3	38.5	38.2	-	-	-	-	-	-
Public warehousing .....	422	39.4	39.8	40.9	40.6	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	41.9	43.3	41.5	41.0	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$10.39	\$10.43	\$10.68	\$10.66	\$10.72	\$397.94	\$403.64	\$406.91	\$406.15	\$411.65
Newspapers .....	271	10.24	10.33	10.58	10.62	-	349.18	353.29	354.43	361.08	-
Periodicals .....	272	10.79	10.71	11.28	11.18	-	416.49	410.19	433.15	425.96	-
Books .....	273	9.51	9.38	9.85	9.55	-	367.09	376.14	376.27	365.77	-
Book publishing .....	2731	9.11	8.94	9.67	9.17	-	344.36	345.98	359.72	343.88	-
Book printing .....	2732	10.12	10.04	10.11	10.09	-	403.79	424.69	401.37	398.56	-
Miscellaneous publishing .....	274	9.87	9.69	9.99	10.02	-	370.13	361.44	366.63	365.73	-
Commercial printing .....	275	10.67	10.73	10.97	10.95	-	424.67	429.20	434.41	432.53	-
Commercial printing, letterpress .....	2751	10.23	10.36	10.44	10.46	-	407.15	412.33	411.34	413.17	-
Commercial printing, lithographic .....	2752	10.79	10.83	11.15	11.11	-	427.28	431.03	442.66	436.62	-
Manifold business forms .....	276	10.83	11.05	10.99	11.04	-	455.94	487.31	452.79	460.37	-
Blankbooks and bookbinding .....	278	8.37	8.42	8.49	8.50	-	328.10	341.85	334.51	333.20	-
Printing trade services .....	279	12.64	12.75	13.08	13.14	-	484.11	498.53	508.81	505.89	-
Chemicals and allied products .....	28	12.55	12.61	12.79	12.87	13.02	535.89	542.23	541.02	548.26	557.26
Industrial inorganic chemicals .....	281	13.73	13.75	13.98	14.06	-	591.76	594.00	601.14	604.58	-
Industrial inorganic chemicals, nec .....	2819	13.77	13.77	13.97	14.04	-	599.00	597.62	602.11	603.72	-
Plastics materials and synthetics .....	282	12.79	12.82	13.22	13.26	-	556.37	558.95	579.04	580.79	-
Plastics materials and resins .....	2821	13.67	13.73	14.25	14.27	-	605.58	613.73	627.00	636.44	-
Organic fibers, noncellulosic .....	2824	12.35	12.26	12.50	12.54	-	527.35	527.18	548.75	542.98	-
Drugs .....	283	11.83	11.95	12.21	12.40	-	493.31	503.10	496.95	512.12	-
Pharmaceutical preparations .....	2834	11.48	11.57	11.91	12.06	-	476.42	488.25	479.97	495.67	-
Soap, cleaners, and toilet goods .....	284	10.98	11.12	11.05	11.10	-	456.77	463.70	436.48	448.44	-
Soap and other detergents .....	2841	14.15	14.43	14.77	14.83	-	631.09	647.91	627.73	646.59	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.18	10.18	10.47	10.27	-	423.49	432.65	425.08	419.02	-
Toilet preparations .....	2844	9.35	9.45	9.13	9.24	-	372.13	372.33	341.46	356.66	-
Paints and allied products .....	285	10.92	10.98	11.34	11.45	-	451.00	461.16	471.74	477.47	-
Industrial organic chemicals .....	286	15.09	15.04	15.14	15.20	-	673.01	681.31	672.22	682.48	-
Cyclic crudes and intermediates .....	2865	15.07	15.22	14.42	14.56	-	658.56	681.86	612.85	626.08	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	15.10	14.99	15.31	15.35	-	677.99	680.55	687.42	696.89	-
Agricultural chemicals .....	287	12.21	12.43	12.59	12.54	-	522.59	541.95	553.96	546.74	-
Miscellaneous chemical products .....	289	11.53	11.56	11.57	11.61	-	484.26	488.99	489.41	493.43	-
Petroleum and coal products .....	29	14.77	14.73	15.22	15.26	15.25	651.36	655.49	680.33	672.97	667.95
Petroleum refining .....	291	15.90	15.79	16.44	16.41	-	702.78	701.08	734.87	730.25	-
Paving and roofing materials .....	295	11.52	11.56	11.86	11.81	-	513.79	529.45	542.00	512.55	-
Rubber and misc. plastics products .....	30	8.98	9.04	9.20	9.22	9.29	377.16	383.30	382.72	386.32	392.04
Tires and inner tubes .....	301	14.10	14.21	14.46	14.59	-	645.78	656.50	649.25	662.39	-
Rubber and plastics footwear .....	302	6.20	6.25	6.40	6.50	-	265.98	275.63	264.96	265.20	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	8.96	9.06	9.16	9.35	-	399.62	410.42	401.21	409.53	-
Fabricated rubber products, nec .....	306	8.83	8.90	8.74	8.83	-	369.09	380.92	363.58	369.98	-
Miscellaneous plastics products .....	307	8.36	8.42	8.60	8.59	-	346.10	351.96	353.46	356.49	-
Leather and leather products .....	31	6.15	6.16	6.34	6.39	6.33	236.16	237.78	240.29	240.26	238.64
Leather tanning and finishing .....	311	8.24	8.33	8.38	8.50	-	339.49	350.69	341.90	345.95	-
Footwear, except rubber .....	314	5.85	5.85	6.07	6.12	-	222.30	223.47	227.02	225.83	-
Men's footwear, except athletic .....	3143	6.22	6.22	6.38	6.50	-	230.76	236.36	236.70	237.25	-
Women's footwear, except athletic .....	3144	5.57	5.56	5.84	5.87	-	218.34	214.06	217.83	216.02	-
Luggage .....	316	6.58	6.50	6.18	6.20	-	269.12	263.25	240.40	243.04	-
Handbags and personal leather goods .....	317	5.79	5.76	5.91	5.95	-	216.55	212.54	221.03	218.96	-
<b>Transportation and public utilities .....</b>		<b>12.21</b>	<b>12.24</b>	<b>12.43</b>	<b>12.50</b>	<b>12.48</b>	<b>479.85</b>	<b>479.81</b>	<b>490.99</b>	<b>492.50</b>	<b>494.21</b>
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	14.39	14.87	14.91	15.11	-	650.43	654.28	673.93	695.06	-
Local and interurban passenger transit .....	41	8.38	8.30	8.60	8.67	-	278.22	278.88	297.56	293.05	-
Local and suburban transportation .....	411	9.02	9.00	9.09	9.26	-	345.47	344.70	351.78	357.44	-
Intercity highway transportation .....	413	11.62	11.53	11.24	11.29	-	469.45	442.75	457.47	431.28	-
Trucking and warehousing .....	42	10.93	10.96	11.02	11.09	-	417.53	420.86	426.47	425.86	-
Trucking and trucking terminals .....	421,3	11.13	11.16	11.25	11.28	-	424.05	427.43	433.13	430.90	-
Public warehousing .....	422	8.58	8.50	8.55	8.94	-	338.05	338.30	349.70	362.96	-
Pipe lines, except natural gas .....	46	15.54	15.78	15.94	15.98	-	651.13	683.27	661.51	655.18	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	40.3	40.0	39.7	39.6	-	-	-	-	-	-
Telephone communication .....	481	41.8	41.4	41.2	41.1	-	-	-	-	-	-
Radio and television broadcasting .....	483	36.1	35.9	36.1	35.8	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	42.1	41.9	41.8	42.0	-	-	-	-	-	-
Electric services .....	491	41.8	41.3	41.6	42.0	-	-	-	-	-	-
Gas production and distribution .....	492	41.4	41.4	42.1	41.8	-	-	-	-	-	-
Combination utility services .....	493	43.4	43.0	42.2	42.4	-	-	-	-	-	-
Sanitary services .....	495	42.5	43.8	42.4	42.0	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>38.2</b>	<b>38.2</b>	<b>38.2</b>	<b>38.0</b>	<b>38.2</b>	-	-	-	-	-
Durable goods .....	50	38.7	38.7	38.7	38.5	-	-	-	-	-	-
Motor vehicles and automotive equipment .....	501	38.3	38.7	38.0	37.8	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.3	37.8	37.5	37.0	-	-	-	-	-	-
Lumber and construction materials .....	503	39.2	39.2	39.7	39.2	-	-	-	-	-	-
Sporting goods, toys, and hobby goods .....	504	36.5	36.5	36.2	36.0	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.8	41.3	40.4	40.5	-	-	-	-	-	-
Electrical goods .....	506	38.3	38.4	38.1	37.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.6	38.5	39.0	38.8	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.0	38.9	39.0	38.8	-	-	-	-	-	-
Miscellaneous durable goods .....	509	38.0	38.0	38.3	38.4	-	-	-	-	-	-
Nondurable goods .....	51	37.5	37.6	37.6	37.2	-	-	-	-	-	-
Paper and paper products .....	511	37.1	37.2	37.0	36.6	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	37.0	37.6	37.1	37.0	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	37.5	37.5	37.1	36.9	-	-	-	-	-	-
Groceries and related products .....	514	38.1	38.1	37.9	37.9	-	-	-	-	-	-
Chemicals and allied products .....	516	38.8	39.3	39.9	39.7	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.7	38.7	38.7	38.1	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	35.8	36.0	36.1	36.0	-	-	-	-	-	-
Miscellaneous nondurable goods .....	519	36.6	36.9	36.6	36.3	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>29.0</b>	<b>29.3</b>	<b>29.1</b>	<b>28.8</b>	<b>29.3</b>	-	-	-	-	-
Building materials and garden supplies .....	52	36.4	36.3	36.7	36.3	-	-	-	-	-	-
Lumber and other building materials .....	521	38.4	38.0	38.6	38.3	-	-	-	-	-	-
Hardware stores .....	525	32.8	33.2	32.8	32.6	-	-	-	-	-	-
General merchandise stores .....	53	27.4	28.8	27.5	27.4	-	-	-	-	-	-
Department stores .....	531	27.0	28.3	27.2	27.0	-	-	-	-	-	-
Variety stores .....	533	29.3	31.1	28.8	29.0	-	-	-	-	-	-
Misc. general merchandise stores .....	539	29.0	31.1	29.4	29.2	-	-	-	-	-	-
Food stores .....	54	30.0	29.8	30.0	29.9	-	-	-	-	-	-
Grocery stores .....	541	30.2	29.9	30.1	30.0	-	-	-	-	-	-
Retail bakeries .....	546	27.5	28.0	29.1	28.9	-	-	-	-	-	-
Automotive dealers and service stations .....	55	36.5	36.2	36.4	36.2	-	-	-	-	-	-
New and used car dealers .....	551,2	37.3	37.1	37.2	37.2	-	-	-	-	-	-
Auto and home supply stores .....	553	39.0	38.5	38.9	38.3	-	-	-	-	-	-
Gasoline service stations .....	554	34.1	33.8	34.1	33.8	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.5	27.5	27.0	26.8	-	-	-	-	-	-
Men's and boys' clothing and furnishings .....	561	28.5	30.5	28.8	28.4	-	-	-	-	-	-
Women's ready-to-wear stores .....	562	25.0	25.8	25.2	24.7	-	-	-	-	-	-
Family clothing stores .....	565	27.0	28.0	27.0	27.1	-	-	-	-	-	-
Shoe stores .....	566	27.5	28.3	28.5	28.4	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	33.0	33.5	33.0	32.6	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.2	33.5	33.7	33.5	-	-	-	-	-	-
Household appliance stores .....	572	34.1	34.2	33.4	33.6	-	-	-	-	-	-
Radio, television, and music stores .....	573	32.3	33.4	31.7	30.9	-	-	-	-	-	-
Eating and drinking places <sup>a</sup> .....	58	25.6	25.5	25.8	25.4	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>2</sup>	Dec. 1988 <sup>2</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>2</sup>	Dec. 1988 <sup>2</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.58	\$12.84	\$12.91	\$12.96	-	\$506.97	\$505.60	\$512.53	\$513.22	-
Telephone communication .....	481	13.36	13.36	13.64	13.68	-	558.45	553.93	561.97	562.25	-
Radio and television broadcasting .....	483	10.93	11.15	11.78	11.89	-	394.57	400.29	425.26	425.66	-
Electric, gas, and sanitary services .....	49	14.07	14.03	14.59	14.69	-	592.35	587.86	609.86	616.96	-
Electric services .....	491	14.10	14.05	14.59	14.83	-	589.38	580.27	606.94	622.86	-
Gas production and distribution .....	492	13.31	13.25	13.67	13.68	-	551.03	548.55	575.51	571.82	-
Combination utility services .....	493	16.60	16.51	17.37	17.25	-	720.44	709.93	733.01	731.40	-
Sanitary services .....	495	10.39	10.59	11.25	11.32	-	441.58	463.84	477.00	475.44	-
<b>Wholesale trade .....</b>		<b>9.72</b>	<b>9.73</b>	<b>10.08</b>	<b>10.05</b>	<b>\$10.13</b>	<b>371.30</b>	<b>371.69</b>	<b>365.06</b>	<b>361.90</b>	<b>\$386.97</b>
Durable goods .....	50	9.92	9.90	10.35	10.27	-	383.90	383.13	400.55	395.40	-
Motor vehicles and automotive equipment .....	501	8.93	8.98	9.31	9.25	-	342.02	347.53	353.78	349.65	-
Furniture and home furnishings .....	502	8.93	8.88	9.55	9.42	-	333.09	335.68	356.13	346.54	-
Lumber and construction materials .....	503	9.43	9.47	9.87	9.83	-	369.66	371.22	391.64	365.34	-
Sporting goods, toys, and hobby goods .....	504	9.73	9.63	9.64	9.25	-	355.15	351.50	348.97	333.00	-
Metals and minerals, except petroleum .....	505	10.53	10.53	10.74	10.61	-	429.62	434.89	433.90	429.71	-
Electrical goods .....	506	10.36	10.27	10.76	10.76	-	397.55	394.37	409.96	406.73	-
Hardware, plumbing, and heating equipment .....	507	9.38	9.31	9.67	9.54	-	361.30	356.44	377.13	370.15	-
Machinery, equipment, and supplies .....	508	10.58	10.56	11.10	11.02	-	412.62	410.78	432.90	427.58	-
Miscellaneous durable goods .....	509	7.89	7.89	8.13	8.11	-	299.62	299.82	311.38	311.42	-
Nondurable goods .....	51	9.44	9.48	9.69	9.71	-	354.00	356.45	364.34	361.21	-
Paper and paper products .....	511	10.30	10.24	10.68	10.66	-	382.13	360.93	395.16	390.16	-
Drugs, proprietaries, and sundries .....	512	11.01	10.91	11.21	11.20	-	407.37	410.22	415.89	414.40	-
Apparel, piece goods, and notions .....	513	9.15	9.19	9.39	9.40	-	343.13	344.63	348.37	346.86	-
Groceries and related products .....	514	9.60	9.62	9.85	9.88	-	365.76	366.52	373.32	374.45	-
Chemicals and allied products .....	516	12.23	12.15	12.31	12.27	-	474.52	477.50	491.17	487.12	-
Petroleum and petroleum products .....	517	9.58	9.67	9.80	9.75	-	369.97	374.23	379.26	371.48	-
Beer, wine, and distilled beverages .....	518	11.01	11.23	11.31	11.30	-	394.16	404.28	406.29	406.80	-
Miscellaneous nondurable goods .....	519	7.69	7.76	8.01	7.96	-	281.45	286.34	293.17	286.95	-
<b>Retail trade .....</b>		<b>6.18</b>	<b>6.19</b>	<b>6.38</b>	<b>6.43</b>	<b>6.40</b>	<b>179.22</b>	<b>181.37</b>	<b>185.66</b>	<b>185.18</b>	<b>187.52</b>
Building materials and garden supplies .....	52	7.16	7.20	7.49	7.51	-	261.35	261.36	274.66	272.61	-
Lumber and other building materials .....	521	7.51	7.59	7.88	7.91	-	266.38	266.42	304.17	302.95	-
Hardware stores .....	525	6.03	6.04	6.25	6.24	-	197.78	200.53	205.00	203.42	-
General merchandise stores .....	53	6.50	6.57	6.70	6.65	-	178.10	169.22	184.25	182.21	-
Department stores .....	531	6.61	6.90	7.01	6.96	-	183.67	195.27	190.67	187.92	-
Variety stores .....	533	4.82	4.99	5.07	5.09	-	141.23	155.19	146.02	147.61	-
Misc. general merchandise stores .....	539	5.04	4.96	5.39	5.33	-	146.16	154.26	158.47	155.64	-
Food stores .....	54	7.04	6.89	7.03	7.25	-	211.20	205.32	210.90	216.78	-
Grocery stores .....	541	7.19	7.04	7.13	7.37	-	217.14	210.50	214.61	221.10	-
Retail bakeries .....	546	5.74	5.81	6.06	6.05	-	157.85	162.68	176.35	174.85	-
Automotive dealers and service stations .....	55	7.82	7.86	8.32	8.24	-	285.43	284.53	302.85	298.29	-
New and used car dealers .....	551,2	9.44	9.48	10.12	9.98	-	352.11	351.71	376.46	371.26	-
Auto and home supply stores .....	553	6.61	6.80	7.20	7.15	-	265.59	261.80	280.08	273.85	-
Gasoline service stations .....	554	5.60	5.68	5.66	5.84	-	190.96	191.98	199.83	197.39	-
Apparel and accessory stores .....	56	5.62	5.61	5.85	5.65	-	148.93	154.28	157.95	156.78	-
Men's and boys' clothing and furnishings .....	561	6.64	6.62	7.03	7.10	-	189.24	201.91	202.46	201.64	-
Women's ready-to-wear stores .....	562	5.25	5.26	5.56	5.53	-	131.25	135.71	140.11	136.59	-
Family clothing stores .....	565	5.45	5.41	5.69	5.70	-	147.15	151.48	153.63	154.47	-
Shoe stores .....	566	5.85	5.84	5.96	5.99	-	160.66	165.27	170.43	170.12	-
Furniture and home furnishings stores .....	57	7.59	7.71	7.94	7.96	-	250.47	258.29	262.02	259.50	-
Furniture and home furnishings stores .....	571	7.72	7.76	8.08	8.09	-	256.30	259.96	272.30	271.02	-
Household appliance stores .....	572	7.66	7.65	7.96	8.03	-	261.21	261.63	265.86	269.61	-
Radio, television, and music stores .....	573	7.35	7.64	7.68	7.70	-	237.41	255.18	243.46	237.93	-
Eating and drinking places <sup>4</sup> .....	58	4.48	4.51	4.63	4.66	-	114.69	115.01	119.45	118.36	-

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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	30.0	31.0	30.0	29.8	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	28.2	28.5	27.5	27.5	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	27.9	29.8	28.7	28.1	-	-	-	-	-	-
Nonstore retailers .....	596	33.5	35.1	32.7	33.0	-	-	-	-	-	-
Fuel and ice dealers .....	598	39.6	39.3	39.8	39.2	-	-	-	-	-	-
Retail stores, nec .....	599	31.7	32.4	31.7	31.5	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.3</b>	<b>36.0</b>	<b>36.0</b>	<b>35.7</b>	<b>35.8</b>	-	-	-	-	-
Banking .....	60	36.3	35.8	36.0	35.5	-	-	-	-	-	-
Commercial and stock savings banks .....	602	36.3	35.8	36.0	35.4	-	-	-	-	-	-
Credit agencies other than banks .....	61	36.7	36.1	36.7	36.1	-	-	-	-	-	-
Savings and loan associations .....	612	36.1	35.5	36.0	35.6	-	-	-	-	-	-
Personal credit institutions .....	614	36.4	36.4	36.2	36.1	-	-	-	-	-	-
Insurance carriers .....	63	37.3	37.2	37.3	37.1	-	-	-	-	-	-
Life insurance .....	631	37.0	36.7	37.0	36.8	-	-	-	-	-	-
Medical service and health insurance .....	632	37.8	38.1	37.8	38.1	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.3	37.1	36.9	36.7	-	-	-	-	-	-
<b>Services</b> .....		<b>32.5</b>	<b>32.4</b>	<b>32.7</b>	<b>32.5</b>	<b>32.6</b>	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	31.2	29.8	32.0	30.6	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.1	34.2	34.5	34.3	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	29.5	29.7	30.1	29.7	-	-	-	-	-	-
Business services .....	73	33.6	33.6	33.8	33.8	-	-	-	-	-	-
Advertising .....	731	36.8	36.7	37.0	36.4	-	-	-	-	-	-
Services to buildings .....	734	28.8	28.7	29.8	29.7	-	-	-	-	-	-
Computer and data processing services .....	737	37.4	37.3	38.2	38.0	-	-	-	-	-	-
Auto repair, services, and garages .....	75	36.4	36.5	37.0	36.7	-	-	-	-	-	-
Automotive repair shops .....	753	38.0	38.4	38.1	38.0	-	-	-	-	-	-
Miscellaneous repair services .....	76	37.5	38.4	38.1	38.0	-	-	-	-	-	-
Motion pictures .....	78	29.0	29.4	28.3	28.8	-	-	-	-	-	-
Motion picture production and services .....	781	37.1	38.2	36.0	35.7	-	-	-	-	-	-
Amusement and recreation services .....	79	28.2	28.0	27.8	27.9	-	-	-	-	-	-
Health services .....	80	32.4	32.3	32.4	32.3	-	-	-	-	-	-
Offices of physicians .....	801	31.0	30.8	31.4	31.2	-	-	-	-	-	-
Offices of dentists .....	802	28.7	28.7	28.6	28.6	-	-	-	-	-	-
Nursing and personal care facilities .....	805	31.7	31.5	31.7	31.5	-	-	-	-	-	-
Hospitals .....	806	34.1	34.0	33.8	33.8	-	-	-	-	-	-
Legal services .....	81	34.5	34.2	34.8	34.4	-	-	-	-	-	-
Miscellaneous services .....	89	38.2	38.3	38.1	37.9	-	-	-	-	-	-
Engineering and architectural services .....	891	39.4	39.6	39.3	39.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	893	36.5	36.7	36.6	36.4	-	-	-	-	-	-

See footnotes at end of table.



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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.36	\$6.33	\$6.65	\$6.64	-	\$190.80	\$196.23	\$199.50	\$197.87	-
Drug stores and proprietary stores .....	591	5.94	5.93	6.29	6.30	-	167.51	169.01	172.98	173.25	-
Miscellaneous shopping goods stores .....	594	5.88	5.84	6.19	6.15	-	164.05	174.03	177.65	172.82	-
Nonstore retailers .....	596	7.15	7.23	7.45	7.44	-	239.53	253.77	243.62	245.52	-
Fuel and ice dealers .....	598	9.23	9.24	9.33	9.38	-	365.51	363.13	371.33	367.70	-
Retail stores, nec .....	599	6.53	6.47	6.84	6.81	-	207.00	209.63	216.83	214.52	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>8.89</b>	<b>8.81</b>	<b>9.29</b>	<b>9.27</b>	<b>\$9.28</b>	<b>322.71</b>	<b>317.16</b>	<b>334.44</b>	<b>330.94</b>	<b>\$332.22</b>
Banking .....	60	7.66	7.62	7.94	7.91	-	278.06	272.80	285.84	280.81	-
Commercial and stock savings banks .....	602	7.41	7.37	7.66	7.62	-	268.98	263.85	275.76	269.75	-
Credit agencies other than banks .....	61	8.08	8.00	8.52	8.43	-	296.54	288.80	312.68	304.32	-
Savings and loan associations .....	612	7.63	7.59	8.04	7.94	-	275.44	269.45	289.44	282.66	-
Personal credit institutions .....	614	7.58	7.55	7.94	7.92	-	275.91	274.82	287.43	285.91	-
Insurance carriers .....	63	9.74	9.74	10.41	10.38	-	363.30	362.33	388.29	385.10	-
Life insurance .....	631	9.13	9.16	9.82	9.79	-	337.81	336.17	363.34	360.27	-
Medical service and health insurance .....	632	9.56	9.51	10.11	10.05	-	361.37	362.33	382.16	382.91	-
Fire, marine, and casualty insurance .....	633	10.21	10.26	10.97	10.95	-	380.83	380.65	404.79	401.87	-
<b>Services</b> .....		<b>8.71</b>	<b>8.73</b>	<b>9.07</b>	<b>9.09</b>	<b>9.13</b>	<b>283.08</b>	<b>282.85</b>	<b>296.59</b>	<b>295.43</b>	<b>297.64</b>
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	6.35	6.46	6.45	6.48	-	198.12	192.51	206.40	198.29	-
Personal services:											
Laundry, cleaning, and garment services .....	721	6.22	6.27	6.36	6.42	-	212.10	214.43	219.42	220.21	-
Beauty shops <sup>4</sup> .....	723	6.44	6.71	6.76	6.81	-	189.98	199.29	203.48	202.26	-
Business services .....	73	8.93	8.93	9.25	9.25	-	300.05	300.05	312.65	312.65	-
Advertising .....	731	12.44	12.31	12.67	12.54	-	457.79	451.78	468.79	456.46	-
Services to buildings .....	734	6.75	6.75	6.89	6.86	-	194.40	193.73	205.32	203.74	-
Computer and data processing services .....	737	12.53	12.49	13.06	13.21	-	468.62	465.88	498.89	501.98	-
Auto repair, services, and garages .....	75	7.94	7.99	8.29	8.32	-	289.02	291.64	306.73	305.34	-
Automotive repair shops .....	753	8.56	8.57	8.95	8.99	-	325.28	329.09	341.00	341.62	-
Miscellaneous repair services .....	76	9.36	9.50	9.61	9.62	-	351.94	364.80	366.14	365.56	-
Motion pictures .....	78	12.62	12.47	12.05	12.32	-	365.98	366.62	341.02	354.82	-
Motion picture production and services .....	781	16.68	16.38	15.79	16.14	-	618.83	625.72	568.44	576.20	-
Amusement and recreation services .....	79	7.42	7.58	7.70	7.95	-	209.24	212.24	214.06	221.81	-
Health services .....	80	8.89	8.92	9.43	9.45	-	288.04	288.12	305.53	305.24	-
Offices of physicians .....	801	8.59	8.61	8.98	8.94	-	266.29	265.19	281.97	278.93	-
Offices of dentists .....	802	8.57	8.69	9.02	9.02	-	245.96	249.40	257.97	257.97	-
Nursing and personal care facilities .....	805	6.09	6.12	6.48	6.49	-	193.05	192.78	205.42	204.44	-
Hospitals .....	806	10.10	10.12	10.75	10.79	-	344.41	344.08	363.35	364.70	-
Legal services .....	81	12.38	12.27	13.12	12.93	-	427.11	419.63	456.58	444.79	-
Miscellaneous services .....	89	12.41	12.32	12.93	12.78	-	474.06	471.86	492.63	484.36	-
Engineering and architectural services .....	891	13.21	13.15	13.61	13.54	-	520.47	520.74	534.87	529.41	-
Accounting, auditing, and bookkeeping .....	893	10.70	10.54	11.28	10.96	-	390.55	386.82	412.85	398.94	-

<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 aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.

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

<sup>4</sup> Money payments only; tips, not included.

<sup>5</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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

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

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

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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Oct. 1987	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Oct. 1987	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>
Average hourly earnings, excluding lump-sum payments .....	\$13.81	\$13.95	\$14.44	\$14.55	\$13.09	\$13.26	\$13.70	\$13.80
Average hourly earnings, including lump-sum payments .....	14.13	14.26	<sup>p</sup> 14.96	15.07	13.32	13.50	14.06	14.17

<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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Manufacturing</b> .....	\$9.54	\$9.59	\$9.76	\$9.81	\$9.87
<b>Durable goods</b> .....	10.04	10.09	10.26	10.31	10.36
Lumber and wood products .....	8.09	8.06	8.36	8.31	(?)
Furniture and fixtures .....	7.43	7.47	7.75	7.72	(?)
Stone, clay, and glass products .....	9.72	9.73	9.93	9.99	(?)
Primary metal industries .....	11.34	11.40	11.45	11.48	(?)
Fabricated metal products .....	9.60	9.68	9.81	9.83	(?)
Machinery, except electrical .....	10.28	10.30	10.52	10.60	(?)
Electrical and electronic equipment .....	9.58	9.60	9.75	9.81	(?)
Transportation equipment .....	12.51	12.57	12.74	12.82	(?)
Instruments and related products .....	9.44	9.43	9.68	9.64	(?)
Miscellaneous manufacturing .....	7.51	7.64	7.78	7.81	(?)
<b>Nondurable goods</b> .....	8.84	8.89	9.05	9.08	\$9.16
Food and kindred products .....	8.52	8.61	8.56	8.66	(?)
Tobacco manufactures .....	13.17	13.11	13.50	14.00	(?)
Textile mill products .....	6.91	6.93	7.09	7.11	(?)
Apparel and other textile products .....	5.83	5.84	6.04	6.07	(?)
Paper and allied products .....	10.82	10.86	11.00	10.89	(?)
Printing and publishing .....	9.96	9.98	10.23	10.23	(?)
Chemicals and allied products .....	11.97	12.02	12.18	12.28	(?)
Petroleum and coal products .....	13.94	13.94	14.26	14.40	(?)
Rubber and misc. plastics products .....	8.54	8.58	8.74	8.77	(?)
Leather and leather products .....	5.96	5.98	6.17	6.22	(?)

<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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>	Nov. 1987	Dec. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Dec. 1988 <sup>p</sup>
<b>Total private:</b>										
Current dollars .....	\$9.13	\$9.13	\$9.45	\$9.45	\$9.45	\$317.72	\$317.72	\$329.81	\$327.92	\$329.81
Constant (1977) dollars .....	4.87	4.87	4.84	4.84	( <sup>2</sup> )	169.45	169.54	168.96	167.82	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	12.54	12.60	12.72	12.80	\$12.84	534.20	543.06	543.14	536.32	\$540.56
Constant (1977) dollars .....	6.69	6.72	6.52	6.55	( <sup>2</sup> )	284.91	289.79	278.25	274.47	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	12.83	12.81	13.13	13.04	\$13.15	475.99	481.66	512.07	491.61	\$489.18
Constant (1977) dollars .....	6.84	6.84	6.73	6.67	( <sup>2</sup> )	253.86	257.02	262.33	251.59	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.01	10.07	10.24	10.30	\$10.37	414.41	420.93	422.91	427.45	\$433.47
Constant (1977) dollars .....	5.34	5.37	5.25	5.27	( <sup>2</sup> )	221.02	224.62	216.66	218.76	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.21	12.24	12.43	12.50	\$12.48	479.85	479.81	490.99	492.50	\$494.21
Constant (1977) dollars .....	6.51	6.53	6.37	6.40	( <sup>2</sup> )	255.92	256.04	251.53	252.05	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	9.72	9.73	10.08	10.05	\$10.13	371.30	371.69	385.06	381.90	\$386.97
Constant (1977) dollars .....	5.18	5.19	5.16	5.14	( <sup>2</sup> )	198.03	198.34	197.26	195.45	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.18	6.19	6.38	6.43	\$6.40	179.22	181.37	185.66	185.18	\$187.52
Constant (1977) dollars .....	3.30	3.30	3.27	3.29	( <sup>2</sup> )	95.58	96.78	95.11	94.77	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	8.89	8.81	9.29	9.27	\$9.28	322.71	317.16	334.44	330.94	\$332.22
Constant (1977) dollars .....	4.74	4.70	4.76	4.74	( <sup>2</sup> )	172.11	169.24	171.33	169.37	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	8.71	8.73	9.07	9.09	\$9.13	283.08	282.85	296.59	295.43	\$297.64
Constant (1977) dollars .....	4.65	4.66	4.65	4.65	( <sup>2</sup> )	150.98	150.93	151.94	151.19	( <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 1987 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1987 forward are subject to revision.

**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	1987	1988											
	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	34.8	34.6	34.9	34.7	34.7	34.9	34.6	34.7	34.9	34.8	34.7
<b>Mining</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <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>Construction</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <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>Manufacturing</b> .....	41.0	41.1	41.0	40.9	41.2	41.0	41.1	41.1	41.0	41.2	41.2	41.2	41.0
<i>Overtime hours</i> .....	3.8	3.9	3.7	3.7	3.9	3.9	3.9	3.9	3.9	3.9	4.0	3.9	3.9
<b>Durable goods</b> .....	41.5	41.6	41.5	41.5	42.0	41.8	41.8	41.8	41.6	41.9	41.9	41.9	41.7
<i>Overtime hours</i> .....	3.9	4.0	3.8	3.8	4.2	4.2	4.1	4.0	4.1	4.0	4.2	4.1	4.1
Lumber and wood products .....	40.4	40.2	40.3	40.1	40.6	40.1	40.2	40.5	40.0	39.9	40.7	40.3	40.6
Furniture and fixtures .....	39.8	39.6	39.5	39.3	39.5	39.5	39.4	39.7	39.0	39.6	39.4	39.5	39.3
Stone, clay, and glass products .....	42.5	42.0	42.3	42.3	42.5	42.3	42.4	42.1	42.1	42.3	42.5	42.6	42.1
Primary metal industries .....	43.4	43.4	43.1	43.3	43.5	43.6	43.6	43.4	43.5	44.0	43.8	43.7	43.4
Blast furnaces and basic steel products ..	44.0	44.0	43.8	43.7	43.8	43.9	44.3	44.0	44.0	44.6	44.3	44.0	43.8
Fabricated metal products .....	41.7	41.8	41.6	41.6	42.0	41.9	42.0	41.7	41.8	42.0	41.9	42.1	41.9
Machinery, except electrical .....	42.6	42.7	42.6	42.5	42.8	42.6	42.5	43.0	42.4	42.7	42.6	42.4	42.4
Electrical and electronic equipment .....	40.9	41.1	40.9	40.9	41.2	41.0	41.1	41.0	40.8	41.0	41.0	41.0	40.7
Transportation equipment .....	41.5	42.0	42.0	42.1	43.0	43.0	43.0	42.6	42.7	43.3	43.3	43.4	43.0
Motor vehicles and equipment .....	41.4	42.1	42.3	42.3	44.1	44.0	44.2	42.5	43.6	44.5	44.2	44.8	43.9
Instruments and related products .....	41.2	41.8	41.3	41.4	41.8	41.4	41.3	41.8	41.5	41.6	41.9	41.5	41.4
Miscellaneous manufacturing .....	39.2	39.1	39.3	39.2	39.4	39.2	39.3	39.2	39.2	39.2	39.1	39.3	39.0
<b>Nondurable goods</b> .....	40.3	40.3	40.2	40.1	40.3	40.0	40.1	40.2	40.1	40.2	40.2	40.2	40.0
<i>Overtime hours</i> .....	3.7	3.8	3.6	3.6	3.6	3.6	3.6	3.7	3.6	3.7	3.8	3.7	3.7
Food and kindred products .....	40.5	40.6	40.3	40.1	40.1	40.1	40.3	40.5	40.4	40.3	40.6	40.6	40.5
Tobacco manufactures .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Textile mill products .....	41.5	41.5	41.6	41.2	41.6	40.8	40.7	41.1	41.1	41.1	41.0	41.0	41.0
Apparel and other textile products .....	37.1	36.8	37.0	37.0	37.4	36.8	36.9	36.9	36.8	37.1	36.8	37.0	36.8
Paper and allied products .....	43.3	43.4	43.3	43.2	43.3	43.3	43.2	43.2	43.2	43.3	43.2	43.0	42.9
Printing and publishing .....	38.0	38.1	38.1	38.1	38.2	37.7	38.0	38.0	38.0	38.1	38.0	37.8	37.7
Chemicals and allied products .....	42.5	42.5	42.4	42.5	42.1	42.0	42.4	42.3	42.1	42.1	42.5	42.4	42.3
Petroleum and coal products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Rubber and misc. plastics products .....	41.6	41.7	41.6	41.7	42.0	41.7	41.6	41.6	41.5	41.6	41.5	41.7	41.4
Leather and leather products .....	38.0	38.0	37.8	37.9	37.3	37.3	36.9	37.0	37.6	37.5	37.9	37.5	37.1
<b>Transportation and public utilities</b> .....	39.1	39.5	39.1	38.8	39.5	39.4	39.3	39.5	39.3	39.4	39.4	39.3	39.5
<b>Wholesale trade</b> .....	38.0	38.1	38.2	38.1	38.3	38.0	37.9	38.2	37.8	38.1	38.1	38.0	38.0
<b>Retail trade</b> .....	28.8	29.0	29.1	29.0	29.2	29.0	29.1	29.3	29.0	28.9	29.2	29.0	28.9
<b>Finance, insurance, and real estate</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <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>Services</b> .....	32.5	32.6	32.7	32.4	32.7	32.5	32.5	32.7	32.4	32.6	32.8	32.6	32.7

<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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987	1988											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Total private</b> .....	122.5	123.0	123.9	123.6	125.1	124.4	125.4	126.4	125.5	126.0	127.1	127.0	127.1
<b>Goods-producing</b> .....	101.3	100.5	101.1	101.6	102.7	102.1	103.2	103.3	102.8	103.1	104.0	104.4	103.7
<b>Mining</b> .....	84.0	81.7	82.5	83.2	85.9	84.4	85.0	85.6	83.5	82.8	83.5	80.7	80.5
<b>Construction</b> .....	137.7	132.1	136.0	139.1	141.1	139.3	144.0	142.4	142.5	143.4	145.3	147.2	144.1
<b>Manufacturing</b> .....	95.0	95.2	95.2	95.2	96.1	95.7	96.1	96.5	96.0	96.3	96.9	97.2	97.0
<b>Durable goods</b> .....	92.5	92.7	92.7	92.7	94.0	93.9	94.3	94.8	94.2	94.6	95.2	95.6	95.4
Lumber and wood products .....	103.7	103.0	103.6	103.1	104.7	103.2	103.8	103.9	102.3	101.7	104.8	104.7	106.2
Furniture and fixtures .....	114.0	113.7	113.2	112.3	113.2	113.7	113.4	115.1	112.0	114.2	114.2	114.8	114.4
Stone, clay, and glass products .....	88.3	86.5	87.3	87.5	88.3	87.5	88.1	88.0	87.5	87.5	88.3	89.1	88.6
Primary metal industries .....	66.6	66.5	66.4	66.9	67.6	68.1	68.6	69.0	68.7	69.7	70.1	70.0	69.7
Blast furnaces and basic steel products .....	54.1	53.9	53.9	54.1	54.8	54.6	55.4	55.3	54.8	55.0	55.1	54.8	54.5
Fabricated metal products .....	90.7	90.9	90.8	90.8	91.8	92.1	92.8	92.7	92.6	93.1	93.6	94.4	94.2
Machinery, except electrical .....	89.3	90.0	90.2	90.4	91.5	91.6	91.6	93.7	92.6	93.2	93.7	94.2	94.6
Electrical and electronic equipment .....	101.8	102.2	101.8	101.9	102.8	102.3	103.0	103.1	102.8	103.1	103.4	103.7	102.8
Transportation equipment .....	97.1	97.5	97.3	96.8	100.0	100.2	100.0	99.7	99.9	100.2	100.7	101.1	100.3
Motor vehicles and equipment .....	84.6	84.7	85.7	84.8	89.8	89.9	90.3	88.2	90.9	91.4	91.9	93.2	91.1
Instruments and related products .....	103.9	106.0	105.0	105.2	106.5	106.1	106.6	108.2	107.7	107.9	109.5	108.5	108.8
Miscellaneous manufacturing .....	83.6	83.4	84.8	84.5	85.0	83.9	84.5	85.1	84.2	84.2	83.1	83.9	84.4
<b>Nondurable goods</b> .....	98.7	99.0	99.0	98.8	99.1	98.4	98.9	99.1	98.7	98.7	99.4	99.7	99.3
Food and kindred products .....	101.3	102.2	101.7	100.9	101.0	100.5	101.4	100.6	100.2	100.1	102.7	103.3	102.5
Tobacco manufactures .....	76.4	77.2	75.8	74.8	73.8	71.0	71.4	73.7	72.0	69.1	69.7	72.7	68.7
Textile mill products .....	82.5	82.5	82.7	81.7	82.2	80.6	80.2	81.2	79.9	80.4	80.2	80.2	80.2
Apparel and other textile products .....	85.9	85.1	85.5	85.7	86.2	84.7	84.8	84.7	83.9	84.5	83.9	84.9	84.6
Paper and allied products .....	101.2	101.6	101.5	101.3	101.4	101.5	101.7	101.9	101.9	101.4	101.3	101.0	100.6
Printing and publishing .....	133.7	134.9	135.5	136.0	136.5	134.9	136.4	136.6	137.0	137.5	137.6	137.2	137.0
Chemicals and allied products .....	97.4	97.4	97.1	97.9	97.1	97.4	98.8	98.7	98.7	98.4	99.7	99.3	99.2
Petroleum and coal products .....	86.3	86.3	84.5	83.5	84.9	85.3	86.8	86.6	86.6	86.1	87.3	86.1	84.9
Rubber and misc. plastics products .....	120.1	120.9	121.0	121.8	122.9	123.1	123.4	124.8	124.2	123.9	124.7	125.8	125.5
Leather and leather products .....	57.0	57.5	57.2	56.9	55.5	55.5	54.9	55.5	56.0	55.8	56.4	55.8	55.7
<b>Service-producing</b> .....	134.2	135.5	136.4	135.8	137.4	136.8	137.8	139.1	138.1	138.7	139.9	139.6	140.0
<b>Transportation and public utilities</b> .....	111.0	112.6	111.8	111.2	113.5	113.5	113.8	114.7	114.5	114.6	115.0	115.2	115.6
<b>Wholesale trade</b> .....	121.3	122.2	123.1	123.6	124.8	124.4	124.9	126.3	125.4	126.9	127.4	127.6	128.3
<b>Retail trade</b> .....	122.2	124.0	125.2	124.8	126.0	125.1	126.2	127.3	126.2	125.7	127.2	126.6	126.4
<b>Finance, insurance, and real estate</b> .....	139.6	141.3	141.6	139.6	141.1	140.1	140.1	142.1	140.0	140.6	141.2	140.4	139.8
<b>Services</b> .....	155.6	156.5	158.0	157.2	159.0	158.3	160.0	161.5	160.7	162.0	163.5	163.2	164.5

<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>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987	1988											
	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</b> (in current dollars) .....	175.7	176.6	178.7	177.0	178.0	178.7	178.8	179.3	179.5	180.3	181.5	181.4	181.7
Mining .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
Construction .....	155.4	157.6	156.8	157.5	157.8	157.5	157.8	158.8	158.6	159.3	159.2	159.3	159.9
Manufacturing .....	176.6	178.8	177.0	177.3	177.9	178.4	178.8	178.8	179.3	180.0	180.5	180.7	180.9
Transportation and public utilities .....	178.2	178.3	179.1	179.4	180.6	181.8	181.0	181.5	181.9	182.0	183.1	182.9	182.8
Wholesale trade .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
Retail trade .....	162.7	163.4	163.4	163.8	164.8	165.4	165.7	166.6	166.7	167.1	168.4	168.9	168.2
Finance, insurance, and real estate .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
Services .....	185.2	166.5	186.3	186.9	188.3	189.9	189.4	190.8	190.9	191.9	194.0	193.3	193.9
<b>Total private</b> (in constant dollars) <sup>4</sup> .....	93.7	93.8	93.7	93.5	93.6	93.6	93.2	93.2	92.9	93.0	93.1	92.9	( <sup>q</sup> )
Average hourly earnings													
<b>Total private</b> .....	\$9.11	\$9.14	\$9.13	\$9.16	\$9.23	\$9.27	\$9.27	\$9.32	\$9.32	\$9.37	\$9.43	\$9.42	\$9.44
Mining .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
Construction .....	\$12.74	\$12.91	\$12.82	\$12.90	\$12.93	\$12.91	\$12.93	\$13.03	\$12.99	\$13.04	\$13.03	\$13.01	\$13.08
Manufacturing .....	10.01	10.02	10.03	10.05	10.11	10.15	10.18	10.17	10.20	10.26	10.28	10.29	10.31
Transportation and public utilities .....	12.16	12.14	12.19	12.21	12.29	12.35	12.33	12.37	12.39	12.37	12.43	12.41	12.41
Wholesale trade .....	9.69	9.75	9.72	9.76	9.88	9.88	9.86	9.97	9.93	10.01	10.13	10.04	10.09
Retail trade .....	6.19	6.20	6.20	6.22	6.25	6.28	6.29	6.33	6.32	6.34	6.37	6.42	6.40
Finance, insurance, and real estate .....	8.84	8.92	8.91	8.90	8.99	9.08	9.00	9.10	9.09	9.18	9.36	9.26	9.33
Services .....	8.67	8.72	8.72	8.75	8.81	8.88	8.86	8.92	8.93	8.99	9.06	9.03	9.07
Average weekly earnings													
<b>Total private:</b>													
In current dollars .....	315.21	317.16	317.72	316.94	322.13	321.67	321.67	325.27	322.47	325.14	329.11	327.82	327.57
In constant (1977) dollars <sup>4</sup> .....	168.02	168.43	168.46	167.43	169.36	168.41	167.89	169.06	166.82	167.68	168.86	167.94	( <sup>q</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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision. Beginning with the February 1989 issue, the Hourly Earnings Index series will no longer be published in *Employment and Earnings*. For further information, see "Employment Cost Index Series to Replace Hourly Earnings Index," *Monthly Labor Review*, July 1988, pp. 32-35.

**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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Alabama</b> .....	41.7	41.4	41.5	\$8.85	\$9.07	\$9.11	\$369.04	\$375.50	\$378.06
Birmingham .....	41.7	41.8	41.2	9.08	9.13	9.16	378.64	381.63	377.39
Mobile .....	40.1	40.2	40.8	10.40	10.52	10.71	417.04	422.90	436.97
<b>Alaska</b> .....	39.9	43.5	46.1	12.82	13.00	12.48	511.52	565.50	575.33
<b>Arizona</b> .....	40.5	40.8	41.3	9.98	9.93	9.97	404.19	405.14	411.76
<b>Arkansas</b> .....	41.0	41.2	40.4	7.92	8.12	8.08	324.72	334.54	326.43
Fayetteville-Springdale .....	42.5	42.8	41.6	7.30	7.21	7.30	310.25	308.59	303.68
Fort Smith .....	41.0	40.8	40.6	8.55	8.71	8.63	350.55	355.37	350.38
Little Rock-North Little Rock .....	41.5	41.7	41.0	8.48	8.54	8.52	351.92	356.12	349.32
Pine Bluff .....	43.1	43.1	42.6	10.60	10.56	10.76	456.86	455.14	458.38
<b>California</b> .....	41.0	( <sup>1</sup> )	( <sup>1</sup> )	10.88	( <sup>1</sup> )	( <sup>1</sup> )	446.08	( <sup>1</sup> )	( <sup>1</sup> )
<b>Colorado</b> .....	40.8	40.6	40.6	10.11	10.25	10.32	412.49	416.15	418.99
Denver .....	40.5	40.0	40.3	10.40	10.83	10.92	421.20	433.20	440.08
<b>Connecticut</b> .....	42.0	41.8	42.2	10.63	10.78	10.89	446.46	450.60	459.56
Bridgeport-Milford .....	41.3	41.3	41.8	11.01	11.21	11.29	454.71	462.97	471.92
Hartford .....	42.0	42.3	42.5	10.75	11.46	11.59	451.50	484.76	492.58
New Haven-Meriden .....	40.2	41.8	42.2	10.13	10.35	10.30	407.23	432.63	434.66
Stamford .....	40.2	39.3	39.3	11.41	12.16	12.19	458.68	477.89	479.07
Waterbury .....	43.2	43.8	44.5	9.14	10.02	10.09	394.85	438.88	449.01
<b>Delaware</b> .....	39.8	39.8	40.6	10.79	10.38	10.32	429.44	413.12	418.99
Wilmington .....	41.3	40.3	42.0	12.92	13.06	12.77	533.60	526.32	536.34
<b>District of Columbia:</b>									
Washington MSA .....	38.5	39.9	39.6	11.00	11.40	11.48	423.50	454.86	454.61
<b>Florida</b> .....	41.3	40.9	41.3	8.24	8.54	8.53	340.31	349.29	352.29
Fort Lauderdale-Hollywood-Pompano Beach .....	42.9	40.9	41.5	8.20	8.44	8.45	351.78	345.20	350.68
Jacksonville .....	41.8	40.9	40.3	8.89	9.14	9.14	371.60	373.83	368.34
Miami-Hialeah .....	40.0	39.9	40.4	7.03	7.31	7.29	281.20	291.67	294.52
Orlando .....	40.5	39.9	39.8	8.72	9.07	9.03	353.16	361.89	359.39
Pensacola .....	43.3	42.1	43.2	11.06	10.71	10.85	478.90	450.89	468.72
Tampa-St. Petersburg-Clearwater .....	40.1	40.7	41.1	7.73	8.35	8.32	309.97	339.85	341.95
West Palm Beach-Boca Raton-Delray Beach .....	42.8	40.3	42.6	9.31	9.38	9.64	398.47	378.01	410.66
<b>Georgia</b> .....	41.8	41.4	41.6	8.63	8.69	8.72	360.73	359.77	362.75
Atlanta .....	42.2	40.6	41.1	10.15	10.20	10.26	428.33	414.12	421.69
Savannah .....	47.0	48.5	47.7	11.06	11.45	11.39	519.82	555.33	543.30
<b>Hawaii</b> .....	40.5	40.2	40.9	9.53	9.89	9.83	385.97	397.58	402.05
Honolulu .....	39.7	39.7	41.5	9.79	10.10	10.04	388.66	400.97	416.66
<b>Idaho</b> .....	38.2	37.7	37.7	9.80	9.99	9.87	374.36	376.62	372.10
<b>Illinois</b> .....	42.1	41.2	41.5	10.87	11.08	11.07	457.63	456.50	459.41
Aurora-Elgin .....	42.8	42.5	42.9	10.67	10.71	10.81	456.68	455.18	463.75
Bloomington-Normal .....	41.6	39.0	40.3	10.90	11.46	11.34	453.44	446.94	457.00
Champaign-Urbana-Rantoul .....	41.6	39.3	41.3	9.29	9.23	9.34	386.46	362.74	385.74
Chicago .....	43.1	42.0	42.3	10.69	10.78	10.81	460.74	452.76	457.26
Davenport-Rock Island-Moline .....	40.8	38.8	40.3	12.81	12.91	12.93	522.65	500.91	521.08
Decatur .....	41.9	42.6	43.4	14.18	14.46	14.60	594.14	616.00	633.64
Joliet .....	41.5	41.7	41.2	11.78	12.02	12.03	488.87	501.23	495.64
Lake County .....	41.2	41.0	42.3	11.22	11.67	11.76	462.26	478.47	497.45
Peoria .....	45.6	47.5	46.0	13.26	13.55	13.58	604.66	643.63	624.68
Rockford .....	41.6	42.3	43.4	11.29	11.36	11.44	469.66	480.53	496.50
Springfield .....	42.5	43.5	43.3	11.85	12.14	11.97	503.63	528.09	518.30
<b>Indiana</b> .....	42.3	42.1	42.2	11.20	11.44	11.49	473.76	481.62	484.88

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. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>
<b>Iowa</b> .....	42.1	41.8	41.9	\$10.64	\$10.61	\$10.78	\$447.94	\$443.50	\$451.68
Cedar Rapids .....	40.7	41.6	41.0	11.99	12.33	12.57	487.99	512.93	515.37
Des Moines .....	42.3	42.2	43.0	11.98	11.79	11.79	506.75	497.54	506.97
Dubuque .....	43.4	42.9	39.1	11.53	11.87	11.67	500.40	509.22	456.30
Sioux City .....	40.8	32.4	31.9	8.50	8.12	8.06	346.80	263.09	257.11
<b>Kansas</b> .....	40.9	41.1	40.9	10.03	10.37	10.40	410.23	426.21	425.36
Topeka .....	43.2	41.1	41.9	11.89	11.56	11.76	513.65	475.12	492.74
Wichita .....	40.9	41.9	41.6	10.65	10.95	11.14	435.59	458.81	463.42
<b>Kentucky</b> .....	41.5	40.3	40.8	10.11	10.19	10.25	419.57	410.66	418.20
Lexington-Fayette .....	40.9	39.4	40.3	10.43	10.36	10.53	426.59	408.18	424.36
Louisville .....	43.4	41.4	42.5	11.68	11.65	11.79	506.91	482.31	501.08
<b>Louisiana</b> .....	42.3	42.7	43.4	10.66	10.96	11.04	450.92	467.99	479.14
Baton Rouge .....	43.5	42.1	43.5	12.15	12.93	12.45	528.53	544.35	541.58
New Orleans .....	40.7	41.3	41.1	10.50	10.66	10.87	427.35	440.26	446.76
Shreveport .....	39.5	41.1	42.4	11.50	11.67	12.01	454.25	479.64	509.22
<b>Maine</b> .....	41.9	40.3	39.5	8.85	9.19	9.45	370.82	370.36	373.28
Lewiston-Auburn .....	40.0	39.5	38.6	7.52	8.26	8.25	300.80	326.27	318.45
Portland .....	43.2	41.9	39.2	9.01	9.43	9.78	389.23	395.12	383.38
<b>Maryland</b> .....	40.5	41.6	41.9	10.12	10.53	10.68	409.86	438.05	447.49
Baltimore MSA .....	41.7	42.0	42.1	11.05	11.31	11.43	460.79	475.02	481.20
<b>Massachusetts</b> .....	40.9	41.0	41.4	10.04	10.46	10.44	410.64	428.86	432.22
Boston .....	41.0	41.4	41.6	10.85	11.10	11.11	444.85	459.54	462.18
Springfield .....	42.4	42.7	42.8	9.37	9.89	9.86	397.29	422.30	422.01
Worcester .....	40.4	40.9	41.3	10.06	10.61	10.63	406.42	433.95	439.02
<b>Michigan</b> .....	42.9	43.5	44.3	13.10	13.35	13.44	561.99	580.72	595.39
Ann Arbor .....	46.1	46.7	47.5	14.28	14.60	14.69	658.31	681.82	697.77
Battle Creek .....	43.0	43.1	43.5	13.67	14.59	14.67	587.81	628.83	638.14
Detroit .....	44.0	44.3	44.8	14.10	14.39	14.51	620.40	637.48	650.05
Flint .....	41.4	45.4	45.8	15.73	16.77	16.93	651.22	761.36	775.39
Grand Rapids .....	40.7	41.2	41.8	11.13	11.51	11.45	452.99	474.21	478.61
Kalamazoo .....	43.1	42.6	43.1	12.59	12.58	12.71	542.63	535.91	547.80
Lansing-East Lansing .....	42.1	42.9	44.3	13.92	14.37	14.56	586.03	616.47	645.01
Muskegon .....	40.9	40.9	41.4	11.85	11.96	12.05	484.66	489.16	498.87
Saginaw-Bay City-Midland .....	42.9	43.4	44.8	14.65	15.04	15.31	628.48	652.74	685.89
<b>Minnesota</b> .....	40.8	41.2	40.8	10.41	10.62	10.63	424.73	437.54	433.70
Duluth .....	37.1	38.8	36.5	10.70	11.22	11.22	396.97	435.34	409.53
Minneapolis-St. Paul .....	40.8	40.8	40.7	11.11	11.28	11.27	453.29	460.22	458.69
St. Cloud .....	39.3	37.4	36.8	9.95	10.00	9.96	391.04	374.00	366.53
<b>Mississippi</b> .....	40.8	40.7	40.9	7.64	7.91	7.93	311.71	321.94	324.34
Jackson .....	40.9	40.8	41.0	8.75	8.71	8.78	357.88	355.37	359.98
<b>Missouri</b> .....	41.1	41.3	41.2	10.07	10.16	10.22	413.88	419.61	421.06
Kansas City .....	41.5	41.8	41.3	11.24	11.62	11.41	466.46	485.72	471.23
St. Louis .....	41.6	41.8	41.7	11.70	11.75	11.89	486.72	491.15	495.81
Springfield .....	40.1	40.9	40.4	8.46	8.39	8.49	339.25	343.15	343.00
<b>Montana</b> .....	38.5	40.2	40.0	10.34	10.55	10.72	398.09	424.11	428.80
<b>Nebraska</b> .....	41.4	40.9	40.5	9.43	9.54	9.65	390.40	390.19	390.83
Lincoln .....	41.1	40.1	39.8	10.19	9.98	9.98	418.81	400.20	397.20
Omaha .....	41.2	42.0	40.9	10.05	10.36	10.63	414.06	435.12	434.77
<b>Nevada</b> .....	40.6	39.0	39.8	9.82	10.43	10.17	398.69	406.77	404.77
Las Vegas .....	39.8	40.8	41.0	12.18	13.14	12.65	484.76	536.11	518.65
<b>New Hampshire</b> .....	41.5	39.8	39.8	9.51	9.92	9.91	394.67	394.82	394.42
Nashua .....	41.7	40.0	40.0	11.57	12.48	12.30	482.47	499.20	492.00
Portsmouth-Dover-Rochester .....	40.9	41.0	42.1	9.07	9.27	9.34	370.96	380.07	393.21

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>New Jersey</b> .....	41.8	41.1	41.2	\$10.56	\$10.90	\$10.91	\$441.41	\$447.99	\$449.49
<b>New Mexico</b> .....	39.8	40.1	40.5	8.87	8.72	8.92	351.25	349.87	361.28
Albuquerque .....	40.0	40.1	39.9	9.10	9.53	9.58	364.00	382.15	381.44
<b>New York</b> .....	40.5	40.1	40.5	10.18	10.55	10.59	412.29	423.06	428.90
Albany-Schenectady-Troy .....	40.8	40.6	41.9	10.85	11.32	11.38	434.52	481.88	478.82
Binghamton .....	41.0	40.6	40.2	9.34	9.80	9.74	382.94	397.88	391.55
Buffalo .....	42.2	43.7	44.1	11.91	12.40	12.51	502.80	541.88	551.69
Elmira .....	42.2	41.7	42.8	9.57	9.83	9.88	403.85	401.57	422.88
Nassau-Suffolk .....	40.0	39.8	40.2	10.79	11.44	11.48	431.80	455.31	460.89
New York PMSA .....	37.4	37.4	37.8	9.88	9.99	10.04	382.03	373.63	377.50
New York City .....	37.0	37.2	37.1	9.48	9.78	9.79	350.02	363.82	363.21
Niagara Falls .....	42.6	42.4	43.1	13.21	13.74	13.85	582.75	582.58	598.94
Orange County .....	39.1	37.5	39.2	7.97	6.57	8.52	311.83	321.38	333.96
Poughkeepsie .....	40.3	41.3	41.4	9.58	10.10	10.17	388.07	417.13	421.04
Rochester .....	43.2	43.5	43.8	12.20	12.43	12.33	527.04	540.71	540.05
Rockland County .....	38.7	35.2	37.7	10.36	10.88	10.92	400.93	382.98	411.88
Syracuse .....	43.0	41.8	42.3	11.34	12.10	12.33	487.62	505.78	521.58
Utica-Rome .....	43.0	41.6	42.7	9.48	9.75	9.77	407.84	405.80	417.18
Westchester County .....	40.7	40.1	42.1	11.21	11.40	11.89	456.25	457.14	492.15
<b>North Carolina</b> .....	41.8	40.8	40.9	7.93	8.19	8.22	331.47	334.15	338.20
Asheville .....	43.3	41.8	41.9	8.08	8.31	8.31	349.86	347.38	348.19
Charlotte-Gastonia-Rock Hill .....	42.3	41.0	41.1	8.28	8.52	8.59	350.24	349.32	353.05
Greensboro-Winston-Salem-High Point .....	41.2	40.3	40.5	8.70	8.98	9.01	356.44	361.89	364.91
Raleigh-Durham .....	43.0	41.6	41.8	9.03	9.17	9.21	388.29	381.47	383.14
<b>North Dakota</b> .....	39.5	39.9	39.0	8.45	8.42	8.40	333.78	335.96	327.60
Fargo-Moorhead .....	40.3	40.5	39.8	8.71	8.61	8.43	351.01	348.71	335.51
<b>Ohio</b> .....	43.2	43.3	43.8	11.84	12.08	12.18	511.49	523.06	533.48
Akron .....	43.1	42.8	42.8	11.24	11.42	11.60	484.44	488.78	498.48
Canton .....	42.1	42.9	42.8	11.30	11.51	11.47	475.73	493.78	490.92
Cincinnati .....	43.3	43.0	43.2	11.02	11.26	11.29	477.17	484.18	487.73
Cleveland .....	43.8	43.4	44.0	11.66	11.93	12.01	510.71	517.76	528.44
Columbus .....	42.3	41.7	41.7	11.46	11.66	11.64	484.76	486.22	485.39
Dayton-Springfield .....	42.7	44.3	44.6	12.01	12.95	13.04	512.83	573.69	581.58
Toledo .....	42.8	44.4	45.3	12.81	13.19	13.49	548.27	585.64	611.10
Youngstown-Warren .....	42.4	43.0	43.5	13.37	13.63	13.66	566.89	586.09	594.21
<b>Oklahoma</b> .....	41.7	41.5	41.5	10.22	10.60	10.72	426.17	439.90	444.88
Oklahoma City .....	41.0	42.9	43.6	11.21	11.89	11.89	459.61	510.08	518.40
Tulsa .....	42.1	42.3	42.4	10.83	10.69	10.69	455.94	452.19	453.26
<b>Oregon</b> .....	39.7	40.3	39.2	10.63	10.66	10.70	422.01	429.60	419.44
Eugene-Springfield .....	40.7	39.7	39.2	10.80	10.63	10.53	439.56	422.01	412.78
Portland .....	40.0	40.3	40.1	10.82	10.86	10.87	432.80	437.66	435.89
Salem .....	37.8	40.2	37.9	9.14	8.66	8.90	345.49	348.13	337.31

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. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>a</sup>
<b>Pennsylvania</b> .....	41.5	41.3	41.7	\$10.16	\$10.37	\$10.44	\$421.64	\$428.28	\$435.35
Allentown-Bethlehem .....	40.4	40.4	40.5	10.42	10.44	10.41	420.97	421.78	421.61
Altoona .....	39.6	40.5	41.7	8.49	8.82	8.99	336.20	357.21	374.88
Beaver County .....	42.5	42.0	42.7	11.08	10.88	10.85	470.90	456.96	463.30
Erie .....	42.5	43.3	44.1	10.40	10.63	10.65	442.00	460.28	469.67
Harrisburg-Lebanon-Carlisle .....	39.9	40.0	40.8	9.52	9.78	9.96	379.85	391.20	406.37
Johnstown .....	40.8	39.6	40.1	8.73	8.36	8.35	356.18	331.06	334.84
Lancaster .....	41.1	41.3	41.4	9.82	10.24	10.34	403.60	422.91	428.08
Philadelphia PMSA .....	41.1	40.8	41.3	11.05	11.42	11.46	454.16	465.94	473.30
Pittsburgh .....	42.3	42.5	42.5	11.34	11.34	11.33	479.68	481.95	481.53
Reading .....	41.9	41.0	41.7	10.60	10.93	11.07	444.14	448.13	461.62
Scranton-Wilkes-Barre .....	39.0	39.4	39.0	8.87	9.03	8.95	345.93	355.78	349.05
Williamsport .....	42.4	41.1	40.5	8.67	9.03	9.11	367.61	371.13	368.96
York .....	43.2	42.6	42.1	9.62	9.84	9.97	415.58	419.18	419.74
<b>Rhode Island</b> .....	40.1	39.8	40.0	8.32	8.66	8.66	333.63	344.67	346.40
Pawtucket-Woonsocket-Attleboro .....	40.5	39.4	39.3	7.90	8.17	8.17	319.95	321.90	321.08
Providence .....	39.6	39.6	39.0	8.33	8.52	8.59	329.87	337.39	335.01
<b>South Carolina</b> .....	42.1	41.4	41.4	8.15	8.36	8.35	343.12	346.10	345.69
Charleston .....	42.5	41.4	41.0	9.07	9.17	9.17	385.48	380.88	375.97
Columbia .....	41.5	41.3	41.5	8.03	8.48	8.50	333.24	350.22	352.75
Greenville-Spartanburg .....	41.7	41.3	41.2	8.09	8.28	8.28	337.35	341.96	341.14
<b>South Dakota</b> .....	42.1	41.5	41.4	7.95	8.15	8.14	334.70	338.23	337.00
Sioux Falls .....	38.7	44.6	45.2	7.94	8.31	8.43	307.28	370.63	381.04
<b>Tennessee</b> .....	42.3	41.2	41.4	8.84	8.99	9.05	373.93	370.39	374.67
Chattanooga .....	42.4	42.4	42.3	7.93	8.19	8.18	336.23	347.26	346.01
Johnson City-Kingsport-Bristol .....	43.4	43.7	43.6	9.27	9.32	9.45	402.32	407.28	412.02
Knoxville .....	42.0	40.5	39.3	9.06	8.86	8.89	380.52	358.83	349.38
Memphis .....	42.1	42.3	41.7	8.86	9.01	8.99	373.01	381.12	374.88
Nashville .....	43.0	41.9	42.1	10.55	10.29	10.46	453.65	431.15	440.37
<b>Texas</b> .....	42.2	42.0	42.0	9.88	9.99	9.95	416.94	419.58	417.90
Dallas .....	41.6	41.7	41.8	9.82	9.95	9.91	408.51	414.92	414.24
Ft. Worth-Arlington .....	41.8	42.4	41.8	10.16	10.91	10.86	424.69	462.58	453.95
Houston .....	43.9	43.7	43.6	11.26	11.41	11.34	494.31	498.62	494.42
San Antonio .....	40.5	39.8	40.5	7.59	7.56	7.54	307.40	300.89	305.37
<b>Utah</b> .....	41.2	41.0	40.7	10.05	10.18	10.10	414.06	417.38	411.07
Salt Lake City-Ogden .....	41.5	40.7	40.9	10.06	10.01	10.00	417.49	407.41	409.00
<b>Vermont</b> .....	41.0	41.8	41.3	9.27	9.75	9.79	380.07	407.55	404.33
Burlington .....	41.0	41.9	41.2	10.26	10.52	10.98	420.66	440.79	452.38
<b>Virginia</b> .....	41.1	41.3	41.8	9.27	9.42	9.53	381.00	389.05	398.35
Bristol .....	43.1	44.4	43.1	7.82	7.57	7.67	337.04	336.11	330.58
Charlottesville .....	41.6	42.5	43.5	7.46	7.79	7.75	310.34	331.08	337.13
Danville .....	42.0	41.0	40.9	8.39	8.48	8.45	352.38	347.68	345.61
Lynchburg .....	41.1	41.6	41.6	8.62	8.93	9.07	354.28	371.49	377.31
Northern Virginia .....	38.2	40.2	40.4	10.05	10.77	10.76	383.91	432.95	434.70
Richmond-Petersburg .....	41.2	42.4	42.7	11.99	11.90	12.00	493.99	504.56	512.40
Roanoke .....	42.0	41.4	41.4	9.02	9.34	9.81	378.84	386.68	406.13
<b>Washington</b> .....	40.1	40.8	40.8	11.69	11.71	11.83	468.77	477.77	482.66

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>
<b>West Virginia</b> .....	42.1	41.5	41.9	\$10.69	\$11.03	\$11.00	\$450.05	\$457.75	\$460.90
Charleston .....	43.5	43.8	44.5	13.47	14.02	13.78	585.95	614.08	613.21
Huntington-Ashland .....	41.5	40.4	40.8	12.30	12.37	12.58	510.45	499.75	513.26
Parkersburg-Marietta .....	42.6	40.4	41.9	11.88	12.75	12.91	506.09	515.10	540.93
Wheeling .....	42.5	39.0	43.1	12.45	12.20	12.48	529.13	475.80	537.89
<b>Wisconsin</b> .....	42.4	41.9	42.3	10.69	10.66	10.74	453.26	446.65	454.30
Appleton-Oshkosh .....	43.2	42.7	43.8	11.04	11.23	11.37	476.93	479.52	498.01
Eau Claire .....	42.1	39.8	40.2	10.81	10.47	10.46	455.10	416.71	420.49
Green Bay .....	41.6	42.2	43.5	11.51	11.40	11.63	478.82	481.08	505.91
Janesville-Beloit .....	40.0	43.2	42.9	12.13	13.16	12.71	485.20	568.51	545.26
Kenosha .....	40.7	40.9	44.8	12.47	12.77	13.58	507.53	522.29	608.38
La Crosse .....	41.8	39.7	41.2	8.96	9.02	9.03	374.53	358.09	372.04
Madison .....	40.8	42.7	42.1	9.84	9.85	9.85	401.47	420.60	414.69
Milwaukee .....	42.7	42.0	42.3	11.81	11.62	11.66	504.29	488.04	493.22
Racine .....	43.2	40.2	39.8	11.17	10.94	10.92	482.54	439.79	434.62
Wausau .....	43.2	42.8	42.1	10.13	10.01	10.06	437.62	428.43	423.53
<b>Wyoming</b> .....	36.8	39.0	38.2	9.96	10.04	9.75	366.53	391.56	372.45
<b>Puerto Rico</b> .....	39.4	39.3	37.1	5.44	5.59	5.62	214.34	219.69	208.50
<b>Virgin Islands</b> .....	43.5	40.9	41.3	9.64	9.99	10.06	419.34	404.50	415.48

<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 1987 benchmarks, except Colorado. Data for Colorado have been adjusted to December 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. 1988 <sup>r</sup>	Nov. 1988 <sup>r</sup>	Dec. 1988 <sup>p</sup>	Dec. 1987 to Dec. 1988 <sup>p</sup>	Oct. 1988 to Nov. 1988 <sup>r</sup>	Nov. 1988 to Dec. 1988 <sup>p</sup>
Total .....	199,951	198,880	199,983	3.5	-0.5	0.6
Private sector .....	164,721	164,494	164,741	3.8	-.1	.1
Mining .....	1,624	1,567	1,558	-4.1	-3.5	-6
Construction .....	10,748	10,829	10,622	4.8	.8	-1.9
Manufacturing .....	42,003	42,138	42,054	2.1	.3	-2
Durable goods .....	25,122	25,214	25,168	2.7	.4	-2
Nondurable goods .....	16,881	16,924	16,886	1.1	.3	-2
Transportation and public utilities .....	11,567	11,576	11,620	4.0	.1	.4
Wholesale trade .....	12,394	12,382	12,469	5.4	-.1	.7
Retail trade .....	29,390	29,212	29,224	3.5	-.6	.0
Finance, insurance, and real estate .....	12,585	12,512	12,559	1.3	-.6	.4
Services .....	44,411	44,278	44,635	5.9	-.3	.8
Government .....	35,230	34,385	35,242	2.3	-2.4	2.5

<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 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

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

(1977 = 100)

Item	Annual average		Quarterly index										
	1986	1987	1986				1987				1988		
			I	II	III	IV	I	II	III	IV	I	II	III
<b>Business sector</b>													
Output per hour of all persons .....	110.1	111.0	110.5	110.4	110.0	109.8	109.9	110.6	111.7	111.8	112.8	111.8	112.2
Output .....	128.6	133.3	128.4	128.2	128.5	129.3	130.5	132.2	134.3	136.2	138.0	138.8	139.7
Hours .....	116.8	120.1	116.2	116.1	116.8	117.8	118.8	119.5	120.3	121.8	122.3	124.1	124.5
Compensation per hour .....	183.1	190.4	180.4	182.0	184.0	186.2	187.3	189.0	191.1	194.0	195.8	198.1	201.0
Real compensation per hour .....	101.2	101.5	100.0	101.2	101.7	102.2	101.5	101.2	101.4	102.0	102.1	102.1	102.4
Unit labor costs .....	166.3	171.5	163.3	164.9	167.3	169.6	170.5	170.8	171.1	173.5	173.5	177.1	179.1
Unit nonlabor payments .....	185.0	168.7	164.5	165.2	166.6	163.7	165.6	168.7	171.5	168.9	170.0	170.4	172.4
Implicit price deflator .....	165.6	170.5	163.7	165.0	167.0	167.5	166.7	170.1	171.2	171.9	172.3	174.7	176.7
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	108.2	109.0	108.6	108.4	108.0	107.8	107.8	108.6	109.6	109.9	110.8	110.1	110.6
Output .....	128.2	133.0	128.1	127.8	128.1	128.8	130.1	131.9	134.1	136.0	137.9	139.2	140.4
Hours .....	118.5	122.1	117.9	117.9	118.6	119.5	120.7	121.5	122.3	123.8	124.4	126.4	126.9
Compensation per hour .....	182.3	189.4	179.8	181.2	183.1	185.4	186.4	187.9	190.0	192.9	194.6	196.6	199.4
Real compensation per hour .....	100.8	101.0	99.6	100.7	101.2	101.8	101.0	100.6	100.8	101.4	101.5	101.3	101.5
Unit labor costs .....	168.6	173.8	165.5	167.1	169.5	172.1	172.9	173.0	173.3	175.6	175.7	178.6	180.2
Unit nonlabor payments .....	166.4	170.2	166.1	166.6	168.1	164.9	167.2	169.8	173.0	170.9	171.8	171.8	173.6
Implicit price deflator .....	167.8	172.5	165.7	167.0	169.0	169.5	170.9	171.9	173.2	174.0	174.2	176.2	177.9
<b>Manufacturing</b>													
Output per hour of all persons .....	127.7	132.0	126.6	127.2	128.0	128.8	130.0	131.7	132.8	133.2	134.3	135.5	137.2
Output .....	124.7	130.1	124.2	124.1	124.8	125.9	127.2	128.7	131.1	133.5	135.0	136.9	139.3
Hours .....	97.7	98.6	98.1	97.6	97.4	97.7	97.8	97.7	98.8	100.2	100.6	101.1	101.5
Compensation per hour .....	183.0	186.9	181.1	182.0	183.6	185.3	185.9	186.3	187.2	188.2	190.7	192.1	194.4
Real compensation per hour .....	101.2	99.7	100.3	101.2	101.5	101.7	100.8	99.7	99.3	99.0	99.4	99.0	99.0
Unit labor costs .....	143.3	141.7	143.0	143.2	143.4	143.8	143.1	141.4	141.0	141.3	142.1	141.8	141.6
<b>Durable goods</b>													
Output per hour of all persons .....	133.5	138.5	132.2	132.6	133.9	135.1	136.6	138.1	139.1	140.0	141.3	142.7	144.2
Output .....	130.8	136.0	130.5	130.0	130.7	131.8	133.3	134.2	136.5	139.9	141.3	144.0	146.4
Hours .....	98.0	98.2	98.7	98.0	97.6	97.6	97.6	97.2	98.2	99.9	100.0	100.9	101.6
Compensation per hour .....	181.9	185.2	180.3	180.8	182.2	184.2	184.9	184.4	185.3	186.2	189.5	190.1	192.3
Real compensation per hour .....	100.6	98.8	99.9	100.5	100.7	101.2	100.2	98.8	98.3	97.9	98.8	98.0	98.0
Unit labor costs .....	136.3	133.7	136.4	136.3	136.0	136.4	135.3	133.5	133.2	133.0	134.1	133.3	133.4
<b>Nondurable goods</b>													
Output per hour of all persons .....	118.9	122.3	118.1	118.9	119.2	119.6	120.1	122.4	123.5	123.2	123.9	124.8	126.9
Output .....	115.8	121.4	114.7	115.4	115.9	117.0	118.0	120.5	123.1	124.0	125.6	126.4	128.8
Hours .....	97.3	99.3	97.1	97.0	97.2	97.9	98.2	98.4	99.7	100.7	101.4	101.3	101.5
Compensation per hour .....	184.8	190.1	182.1	184.0	186.0	187.2	188.0	189.7	190.8	191.9	193.2	195.7	197.9
Real compensation per hour .....	102.2	101.4	100.9	102.3	102.8	102.8	101.9	101.6	101.2	100.9	100.8	100.9	100.8
Unit labor costs .....	155.4	155.4	154.3	154.7	156.0	156.5	156.4	155.0	154.5	155.8	156.0	156.8	156.0
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	109.7	111.3	109.5	109.3	109.6	110.3	110.1	110.9	112.2	112.2	113.3	112.9	112.6
Output .....	129.1	134.6	128.8	128.3	128.9	130.4	131.3	133.3	136.1	137.7	140.1	141.2	141.9
Hours .....	117.7	120.9	117.6	117.3	117.6	118.1	119.3	120.2	121.3	122.8	123.6	125.0	126.1
Compensation per hour .....	179.5	185.5	177.1	178.5	180.2	182.2	182.9	184.3	186.1	188.5	189.9	191.9	194.4
Real compensation per hour .....	99.2	98.9	98.1	99.2	99.6	100.1	99.1	98.7	98.7	99.1	99.0	98.9	99.0
Total unit costs .....	167.3	170.6	165.5	166.7	168.4	168.8	169.9	170.3	170.2	172.0	171.5	173.8	176.4
Unit labor costs .....	163.6	166.6	161.7	163.3	164.3	165.1	166.2	166.1	165.9	168.1	167.5	170.0	172.7
Unit nonlabor costs .....	178.4	182.5	176.7	176.9	180.3	179.6	180.8	182.6	183.0	183.6	183.4	185.1	187.6
Unit profits .....	132.4	130.8	133.7	132.7	133.6	129.7	128.5	129.8	136.4	128.3	132.5	132.6	129.5
Implicit price deflator .....	163.2	165.8	161.7	162.6	164.2	164.1	164.9	165.4	166.1	166.7	166.9	168.8	170.8

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 1987	III 1987	IV 1987	I 1988	II 1988	III 1988	II 1987	III 1987	IV 1987	I 1988	II 1988	III 1988
<b>Business sector</b>												
Output per hour of all persons .....	2.7	3.9	0.6	3.5	-3.4	1.5	0.2	1.5	1.9	2.7	1.1	0.5
Output .....	5.3	6.6	5.7	5.5	2.4	2.6	3.1	4.5	5.3	5.8	5.0	4.0
Hours .....	2.5	2.6	5.1	1.9	6.0	1.1	2.9	3.0	3.4	3.0	3.9	3.5
Compensation per hour .....	3.6	4.6	6.2	3.7	4.8	6.1	3.8	3.9	4.2	4.5	4.8	5.2
Real compensation per hour .....	-1.2	.8	2.4	.3	.0	1.3	.0	-3	-2	.5	.9	1.0
Unit labor costs .....	.8	.7	5.6	.2	8.5	4.5	3.6	2.3	2.3	1.8	3.7	4.7
Unit nonlabor payments .....	7.9	6.7	-5.8	2.5	1.0	4.6	2.1	2.9	3.2	2.7	1.0	.5
Implicit price deflator .....	3.2	2.8	1.4	1.0	5.8	4.5	3.1	2.5	2.6	2.1	2.7	3.2
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	3.2	3.7	.9	3.4	-2.4	1.9	.2	1.5	1.9	2.8	1.4	.9
Output .....	5.7	6.8	5.9	5.6	4.0	3.4	3.2	4.7	5.6	6.0	5.6	4.7
Hours .....	2.5	2.9	4.9	2.1	6.6	1.5	3.0	3.2	3.6	3.1	4.1	3.8
Compensation per hour .....	3.4	4.5	6.4	3.5	4.2	5.6	3.7	3.7	4.1	4.4	4.6	4.9
Real compensation per hour .....	-1.4	.6	2.6	.1	-5	.8	-1	-4	-4	.5	.7	.8
Unit labor costs .....	.2	.7	5.4	.1	6.8	3.7	3.5	2.2	2.1	1.6	3.2	4.0
Unit nonlabor payments .....	6.5	7.7	-4.8	1.6	.7	4.1	1.9	2.9	3.6	2.6	1.2	.3
Implicit price deflator .....	2.3	3.1	1.8	.6	4.7	3.8	3.0	2.5	2.6	1.9	2.5	2.7
<b>Manufacturing</b>												
Output per hour of all persons .....	5.5	3.2	1.3	3.2	3.7	5.2	3.6	3.7	3.4	3.3	2.8	3.3
Output .....	4.9	7.8	7.5	4.6	5.8	7.2	3.7	5.1	6.0	6.2	6.4	6.2
Hours .....	-6	4.4	6.1	1.3	2.0	1.8	.1	1.4	2.6	2.8	3.4	2.8
Compensation per hour .....	.7	2.1	2.1	5.4	3.0	4.7	2.3	2.0	1.6	2.6	3.2	3.8
Real compensation per hour .....	-4.0	-1.7	-1.5	2.0	-1.7	.0	-1.4	-2.1	-2.7	-1.3	-7	-3
Unit labor costs .....	-4.6	-1.1	.8	2.2	-7	-5	-1.2	-1.7	-1.8	-7	.3	.4
<b>Durable goods</b>												
Output per hour of all persons .....	4.4	2.9	2.6	3.8	3.8	4.3	4.1	3.8	3.7	3.4	3.3	3.6
Output .....	2.8	7.0	10.2	4.3	7.7	6.9	3.3	4.5	6.1	6.0	7.3	7.2
Hours .....	-1.5	4.0	7.3	.4	3.8	2.5	-8	.6	2.3	2.5	3.8	3.5
Compensation per hour .....	-1.0	2.0	1.9	7.1	1.4	4.7	2.0	1.7	1.1	2.5	3.1	3.8
Real compensation per hour .....	-5.6	-1.7	-1.7	3.6	-3.2	.0	-1.7	-2.4	-3.2	-1.4	-8	-4
Unit labor costs .....	-5.1	-9	-7	3.2	-2.3	.4	-2.0	-2.1	-2.5	-9	-2	.1
<b>Nondurable goods</b>												
Output per hour of all persons .....	7.6	3.8	-1.1	2.3	3.2	6.7	2.9	3.6	3.0	3.1	2.0	2.7
Output .....	8.5	9.0	3.1	5.1	2.7	7.6	4.4	6.2	6.0	6.4	4.9	4.6
Hours .....	.8	5.1	4.2	2.7	-5	.9	1.5	2.5	2.9	3.2	2.9	1.8
Compensation per hour .....	3.8	2.4	2.2	2.9	5.2	4.6	3.1	2.6	2.5	2.8	3.2	3.7
Real compensation per hour .....	-1.0	-1.4	-1.4	-5	.4	-1	-7	-1.5	-1.9	-1.1	-7	-4
Unit labor costs .....	-3.6	-1.3	3.4	.6	2.0	-1.9	.2	-1.0	-5	-3	1.1	1.0
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	3.1	4.7	-.1	4.3	-1.6	-1.1	1.5	2.3	1.6	3.0	1.8	.3
Output .....	6.1	8.8	4.7	7.2	3.0	2.1	3.9	5.6	5.6	6.7	5.9	4.2
Hours .....	2.9	4.0	4.8	2.8	4.7	3.3	2.4	3.2	3.9	3.6	4.1	3.9
Compensation per hour .....	2.9	4.1	5.2	3.0	4.2	5.4	3.2	3.3	3.4	3.8	4.1	4.5
Real compensation per hour .....	-1.8	.3	1.5	-.4	-.6	.7	-.6	-.9	-1.0	-.1	.2	.3
Total unit costs .....	1.0	-.2	4.2	-1.0	5.3	6.3	2.1	1.1	1.9	1.0	2.1	3.7
Unit labor costs .....	-.2	-.6	5.3	-1.2	5.9	6.6	1.7	.9	1.8	.8	2.3	4.1
Unit nonlabor costs .....	4.1	.8	1.3	-.3	3.7	5.5	3.2	1.5	2.2	1.5	1.4	2.5
Unit profits .....	3.9	21.9	-21.5	13.8	.3	-9.1	-2.2	2.0	-1.1	3.1	2.2	-5.0
Implicit price deflator .....	1.2	1.7	1.5	.3	4.8	4.8	1.7	1.2	1.6	1.2	2.1	2.8

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Alabama</b> .....	1,904.7	1,918.1	1,925.2	133.9	128.0	134.6	7.0	6.7	7.0
Birmingham .....	449.9	457.8	457.7	27.3	25.2	25.5	6.1	5.5	5.6
Huntsville .....	132.4	136.7	137.2	6.1	6.3	8.6	4.8	4.6	4.9
Mobile .....	211.0	210.0	212.2	19.1	17.6	18.8	9.1	8.4	8.8
Montgomery .....	138.6	137.6	138.3	8.5	7.9	8.6	6.2	5.7	6.2
Tuscaloosa .....	70.8	71.9	72.0	3.8	3.5	3.5	5.3	4.9	4.9
<b>Alaska</b> .....	241.3	239.2	236.2	23.6	20.1	21.2	9.8	8.4	9.0
<b>Arizona</b> .....	1,640.8	1,719.9	1,748.4	94.2	119.0	114.2	5.7	6.9	6.5
Phoenix .....	1,015.8	1,061.2	1,078.7	49.7	61.4	60.0	4.9	5.8	5.6
Tucson .....	313.8	326.6	331.3	15.3	16.6	16.3	4.9	5.7	5.5
<b>Arkansas</b> .....	1,099.2	1,115.4	1,113.9	82.8	74.7	75.6	7.5	6.7	6.8
Fayetteville-Springdale .....	59.3	61.7	61.8	2.2	2.5	2.6	3.7	4.0	4.2
Fort Smith .....	92.3	92.2	92.5	5.5	6.7	6.6	5.9	7.2	7.4
Little Rock-North Little Rock .....	259.3	264.3	266.5	16.7	15.0	15.0	6.4	5.7	5.6
Pine Bluff .....	37.0	37.3	37.3	3.0	2.8	2.6	8.0	7.5	7.5
<b>California</b> <sup>1</sup> .....	13,906.2	14,200.3	14,336.9	716.0	675.9	730.7	5.1	4.8	5.1
Anaheim-Santa Ana .....	1,308.5	1,353.3	1,367.9	39.9	40.0	40.3	3.1	3.0	2.9
Bakersfield .....	232.6	232.2	231.7	24.1	23.1	23.9	10.4	10.0	10.3
Fresno .....	287.0	300.9	304.7	31.9	29.1	33.7	11.1	9.7	11.1
Los Angeles-Long Beach .....	4,294.0	4,155.2	4,204.5	192.0	179.5	186.8	4.5	4.3	4.4
Modesto .....	152.2	160.5	159.9	17.4	15.8	18.7	11.4	9.9	11.7
Oakland .....	1,039.0	1,081.6	1,097.6	47.4	45.1	47.5	4.6	4.2	4.3
Oxnard-Ventura .....	340.2	354.8	360.0	18.6	18.1	20.5	5.5	5.1	5.7
Riverside-San Bernardino .....	924.9	973.5	985.5	50.7	53.6	54.9	5.5	5.5	5.6
Sacramento .....	691.8	727.0	737.6	37.3	34.6	38.1	5.4	4.6	5.2
San Diego .....	1,076.7	1,140.8	1,155.3	46.9	45.8	47.4	4.4	4.0	4.1
San Francisco .....	676.7	901.0	915.5	29.6	28.6	29.5	3.4	3.2	3.2
San Jose .....	808.3	834.2	841.1	32.4	30.4	32.9	4.0	3.6	3.9
Santa Barbara-Santa Maria-Lompoc .....	179.2	164.5	187.2	6.4	7.3	7.8	4.7	4.0	4.1
Santa Rosa-Petaluma .....	190.3	199.3	201.6	6.7	8.1	9.6	4.6	4.0	4.8
Stockton .....	185.7	199.2	195.8	16.7	16.6	19.7	10.0	8.4	10.1
Vallejo-Fairfield-Napa .....	185.1	195.6	196.8	10.3	9.8	10.7	5.6	5.0	5.4
<b>Colorado</b> .....	1,887.7	1,725.6	1,752.6	122.4	99.5	110.4	7.3	5.8	6.3
Boulder-Longmont .....	132.9	135.6	137.2	7.5	6.3	6.8	5.6	4.6	4.9
Denver .....	891.5	903.1	914.2	60.4	49.2	53.5	6.8	5.4	5.9
<b>Connecticut</b> .....	1,778.1	1,791.1	1,795.8	52.1	53.7	54.7	2.9	3.0	3.0
Bridgeport-Milford .....	234.2	235.7	235.1	7.6	8.9	6.8	3.3	3.6	3.7
Hartford .....	432.3	436.5	437.4	11.9	12.1	12.9	2.8	2.8	2.9
New Haven-Meriden .....	275.5	261.0	261.0	8.0	8.4	7.9	2.9	3.0	2.8
Stamford .....	120.0	120.1	120.3	2.4	2.4	2.5	2.0	2.0	2.1
Waterbury .....	103.2	104.9	104.6	3.8	3.8	3.8	3.7	3.6	3.8
<b>Delaware</b> .....	337.6	351.7	355.4	9.4	10.1	12.1	2.8	2.9	3.4
Wilmington .....	294.5	304.6	306.1	6.5	9.8	11.0	2.9	3.2	3.6
<b>District of Columbia</b> .....	332.0	340.8	340.1	19.3	16.5	15.2	5.8	4.8	4.5
Washington .....	2,141.2	2,239.5	2,244.8	62.7	67.6	65.8	2.9	3.0	2.9
<b>Florida</b> <sup>1</sup> .....	5,932.5	6,173.8	6,103.2	302.8	303.0	317.5	5.1	4.9	5.2
Daytona Beach .....	147.3	152.9	150.1	7.5	6.8	7.3	5.1	4.5	4.8
Fort Lauderdale-Hollywood-Pompano Beach .....	621.1	649.5	643.7	25.3	25.2	27.2	4.1	3.9	4.2
Fort Myers-Cape Coral .....	135.2	144.5	143.6	5.1	5.5	5.2	3.8	3.8	3.6
Jacksonville .....	448.9	475.7	468.7	23.4	23.4	25.7	5.2	4.9	5.5
Melbourne-Titusville-Palm Bay .....	176.4	168.5	185.1	8.8	8.9	8.7	5.0	4.7	4.7
Miami-Hialeah .....	913.5	934.4	921.1	50.6	49.1	51.3	5.5	5.3	5.6
Orlando .....	559.0	591.4	580.8	24.0	28.0	28.0	4.3	4.4	4.8
Pensacola .....	150.2	154.2	151.1	9.3	9.4	9.9	6.2	6.1	6.8
Sarasota .....	118.8	123.1	121.6	4.5	3.9	4.1	3.8	3.2	3.4
Tallahassee .....	124.4	130.6	128.0	4.7	4.4	5.0	3.8	3.3	3.9
Tampa-St. Petersburg-Clearwater .....	984.0	993.9	982.1	45.2	44.5	48.4	4.7	4.5	4.9
West Palm Beach-Boca Raton-Delray Beach .....	406.5	429.0	429.5	19.7	21.6	21.5	4.8	5.0	5.0

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Georgia</b> .....	3,077.3	3,212.9	3,213.7	152.6	163.7	161.9	5.0	5.1	5.0
Athens .....	73.4	77.2	77.4	2.9	2.9	3.4	3.9	3.8	4.4
Atlanta .....	1,451.2	1,522.8	1,523.3	62.4	70.2	68.5	4.3	4.6	4.5
Augusta .....	179.5	184.5	183.8	9.4	10.2	9.4	5.2	5.5	5.1
Columbus .....	101.2	103.7	101.8	5.8	7.2	5.9	5.7	7.0	5.8
Macon-Warner Robins .....	129.3	133.5	133.1	6.2	6.0	5.7	4.8	4.5	4.3
Savannah .....	111.4	113.7	113.4	6.1	6.4	6.0	5.5	5.7	5.3
<b>Hawaii</b> .....	522.3	518.5	523.1	18.7	15.8	15.5	3.6	3.0	3.0
Honolulu .....	390.2	385.0	389.4	12.3	10.4	10.2	3.1	2.7	2.6
<b>Idaho</b> .....	465.2	484.0	475.1	31.5	21.1	24.1	6.8	4.4	5.1
Boise City .....	105.5	110.1	108.3	5.4	3.3	3.6	5.1	3.0	3.4
<b>Illinois</b> <sup>1</sup> .....	5,747.2	5,848.8	5,908.0	363.6	353.4	384.7	6.3	6.0	6.5
Aurora-Elgin .....	175.6	181.0	183.9	8.4	8.2	9.4	4.8	4.5	5.1
Bloomington-Normal .....	66.7	68.3	69.0	3.0	2.8	3.5	4.5	4.1	5.1
Champaign-Urbana-Rantoul .....	88.5	90.1	91.2	3.5	3.3	4.2	3.9	3.7	4.6
Chicago .....	3,165.9	3,223.4	3,246.3	181.1	182.4	192.4	5.7	5.7	5.9
Davenport-Rock Island-Moline .....	180.0	182.0	184.5	11.9	13.4	14.0	6.6	7.4	7.6
Decatur .....	58.2	58.6	58.7	5.0	5.3	5.2	8.6	9.0	8.8
Joliet .....	195.1	194.0	195.7	13.5	12.2	13.2	6.9	6.3	6.8
Lake County .....	267.8	279.3	282.4	10.6	10.4	11.6	4.0	3.7	4.1
Peoria .....	152.1	155.4	157.0	10.2	9.6	10.7	6.7	6.2	6.8
Rockford .....	145.9	146.0	146.7	11.3	9.1	10.1	7.8	6.3	6.9
Springfield .....	109.5	109.6	111.3	5.6	5.2	6.2	5.2	4.8	5.5
<b>Indiana</b> .....	2,800.1	2,853.6	2,871.0	160.3	134.6	155.0	5.7	4.7	5.4
Anderson .....	59.8	59.5	59.8	3.5	3.1	3.3	5.9	5.1	5.6
Bloomington .....	60.9	63.6	64.1	2.3	1.8	2.2	3.8	2.7	3.5
Elkhart-Goshen .....	95.1	98.8	98.2	4.9	4.7	4.4	5.1	4.8	4.5
Evansville .....	143.4	144.8	146.5	9.1	7.3	8.5	6.4	5.0	5.8
Fort Wayne .....	200.0	206.2	207.9	10.3	9.8	11.0	5.2	4.8	5.3
Gary-Hammond .....	254.9	257.3	260.0	18.6	13.8	15.6	7.3	5.4	6.0
Indianapolis .....	669.5	684.0	689.4	33.3	29.3	34.4	5.0	4.3	5.0
Lafayette .....	68.2	68.3	68.4	2.8	1.6	2.0	4.1	2.3	2.9
Muncie .....	61.4	61.7	62.2	4.3	3.1	3.6	6.9	4.9	5.8
South Bend-Mishawaka .....	131.2	131.8	133.7	6.8	5.9	7.2	5.2	4.5	5.4
Terre Haute .....	60.2	60.1	60.5	3.5	2.9	3.4	5.8	4.8	5.7
<b>Iowa</b> .....	1,454.5	1,512.9	1,506.4	64.4	53.5	57.5	4.4	3.5	3.8
Cedar Rapids .....	94.3	98.0	99.0	3.6	2.8	2.9	3.8	2.9	2.9
Des Moines .....	226.3	237.3	239.8	7.5	7.6	8.0	3.3	3.2	3.3
Dubuque .....	45.4	45.8	45.9	2.6	1.9	2.0	5.7	4.1	4.3
Sioux City .....	59.8	61.8	62.5	3.1	2.3	2.4	5.2	3.7	3.9
Waterloo-Cedar Falls .....	69.1	70.5	71.1	4.1	2.9	3.0	6.0	4.1	4.3
<b>Kansas</b> .....	1,270.4	1,294.9	1,326.9	54.4	55.5	61.3	4.3	4.3	4.6
Topeka .....	90.8	90.8	92.5	4.0	4.3	4.5	4.4	4.7	4.8
Wichita .....	253.6	255.5	257.6	10.8	11.5	12.0	4.3	4.5	4.7
<b>Kentucky</b> .....	1,698.8	1,725.5	1,738.2	131.4	111.9	117.5	7.7	6.5	6.8
Lexington-Fayette .....	183.7	189.9	190.5	8.8	7.9	8.2	4.8	4.1	4.3
Louisville .....	507.0	517.8	522.7	30.6	26.9	28.6	6.0	5.2	5.5
Owensboro .....	44.9	45.2	45.4	3.8	2.9	3.0	8.4	6.5	6.7
<b>Louisiana</b> .....	1,928.7	1,945.8	1,930.4	186.8	185.7	184.9	9.7	9.5	9.6
Alexandria .....	61.8	61.5	61.5	5.0	5.3	5.5	8.1	8.6	9.0
Baton Rouge .....	263.9	267.2	266.0	21.7	23.4	23.4	8.2	8.7	8.8
Houma-Thibodaux .....	70.8	70.3	69.9	8.0	6.3	6.2	11.3	9.0	8.9
Lafayette .....	99.1	99.7	99.6	9.5	8.8	8.7	9.6	8.8	8.7
Monroe .....	70.1	69.5	69.1	6.0	6.4	6.3	8.6	9.2	9.2
New Orleans .....	598.1	605.1	602.3	50.8	52.3	51.5	8.5	8.6	8.6
Shreveport .....	166.9	165.4	163.4	15.3	15.6	15.3	9.2	9.4	9.4
<b>Maine</b> .....	591.2	603.0	605.9	20.3	14.1	17.8	3.4	2.3	2.9
Lewiston-Auburn .....	41.6	42.1	42.5	1.6	1.3	1.5	4.0	3.0	3.4
Portland .....	127.6	128.7	130.8	2.3	1.7	2.2	1.8	1.3	1.7

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>Maryland</b> .....	2,415.6	2,482.5	2,478.6	96.3	115.1	108.4	4.0	4.6	4.4
Baltimore .....	1,165.5	1,190.0	1,185.2	50.2	62.0	55.3	4.3	5.2	4.7
<b>Massachusetts</b> <sup>1</sup> .....	3,096.6	3,148.7	3,145.8	72.2	89.0	110.8	2.3	2.8	3.5
Boston .....	1,542.8	1,547.9	1,555.6	30.3	38.6	46.7	2.0	2.5	3.0
Brockton .....	97.4	100.2	100.1	2.7	3.5	4.0	2.7	3.4	4.0
Fall River .....	76.1	76.6	77.3	3.2	3.2	4.0	4.2	4.2	5.2
Fitchburg-Leominster .....	45.2	45.5	45.8	1.3	1.8	2.2	2.8	3.8	4.8
Lawrence-Haverhill .....	183.0	184.0	183.4	6.2	7.2	8.2	3.4	3.9	4.5
Lowell .....	149.5	151.0	150.2	3.8	4.9	5.9	2.6	3.3	3.9
New Bedford .....	84.3	86.5	87.1	3.0	3.3	4.3	3.6	3.8	4.9
Springfield .....	252.4	253.4	253.2	5.8	7.2	9.1	2.3	2.8	3.6
Worcester .....	216.7	225.1	223.8	4.4	5.5	6.9	2.0	2.4	3.1
<b>Michigan</b> <sup>1</sup> .....	4,537.9	4,596.2	4,651.6	335.1	305.2	314.7	7.4	6.6	6.8
Ann Arbor .....	161.6	166.3	167.9	5.6	5.8	5.4	3.5	3.5	3.2
Battle Creek .....	64.6	65.7	66.2	5.0	4.3	4.0	7.8	6.5	6.1
Benton Harbor .....	77.6	79.5	80.6	4.9	5.1	5.6	6.3	6.4	7.0
Detroit .....	2,181.6	2,194.0	2,231.2	160.6	149.7	148.9	7.4	6.8	6.7
Flint .....	203.2	194.9	195.4	27.3	22.9	21.0	13.4	11.7	10.8
Grand Rapids .....	351.9	363.1	367.5	18.8	17.4	18.4	5.3	4.8	5.0
Kalamazoo .....	117.0	119.5	120.7	5.7	5.7	5.5	4.9	4.7	4.5
Lansing-East Lansing .....	241.0	246.0	247.4	13.9	12.3	13.6	5.7	5.0	5.5
Muskegon .....	67.4	69.1	69.4	5.8	6.0	6.2	8.6	8.7	8.9
Saginaw-Bay City-Midland .....	186.8	190.1	192.2	13.3	11.6	12.2	7.1	6.1	6.3
<b>Minnesota</b> .....	2,293.1	2,340.8	2,353.2	119.0	85.5	106.4	5.2	3.7	4.5
Duluth .....	106.9	106.7	108.1	8.5	5.5	6.2	8.0	5.2	5.7
Minneapolis-St.Paul .....	1,377.4	1,387.3	1,399.2	59.9	47.2	55.2	4.3	3.4	3.9
Rochester .....	59.1	59.7	60.9	2.7	1.5	2.2	4.6	2.6	3.7
St. Cloud .....	93.6	96.4	97.6	5.2	3.7	4.9	5.6	3.8	5.0
<b>Mississippi</b> .....	1,146.9	1,155.3	1,151.6	95.9	92.9	98.7	8.4	8.0	8.6
Jackson .....	199.9	203.4	204.1	11.6	11.6	12.4	5.8	5.7	6.1
<b>Missouri</b> .....	2,613.9	2,630.3	2,633.6	154.2	142.3	150.1	5.9	5.4	5.7
Kansas City .....	842.3	828.8	833.9	41.8	40.8	42.2	5.0	4.9	5.1
St. Louis .....	1,284.6	1,281.2	1,291.5	81.4	78.6	81.4	6.3	6.1	6.3
Springfield .....	124.8	128.1	128.4	5.4	5.3	5.7	4.4	4.1	4.4
<b>Montana</b> .....	398.1	392.4	398.1	26.5	19.8	23.9	6.7	5.0	6.0
<b>Nebraska</b> .....	818.8	828.9	828.0	37.1	26.2	29.9	4.5	3.2	3.6
Lincoln .....	123.2	125.8	127.2	4.3	4.0	3.5	3.5	3.2	2.8
Omaha .....	322.3	330.0	333.6	15.2	11.3	13.0	4.7	3.4	3.9
<b>Nevada</b> .....	564.9	593.0	594.3	32.5	26.1	25.6	5.7	4.4	4.3
Las Vegas .....	329.9	344.6	346.0	19.7	16.5	15.1	6.0	4.8	4.4
Reno .....	139.3	143.9	143.6	7.2	5.2	5.7	5.2	3.6	4.0
<b>New Hampshire</b> .....	594.8	611.2	613.5	13.1	14.1	15.3	2.2	2.3	2.5
Nashua .....	99.8	101.0	100.2	2.4	3.1	3.1	2.4	3.1	3.1
Portsmouth-Dover-Rochester .....	132.5	137.7	136.8	2.3	2.1	2.3	1.7	1.5	1.7
<b>New Jersey</b> <sup>1</sup> .....	3,972.2	3,909.9	3,955.9	129.0	138.2	139.5	3.2	3.5	3.5
Atlantic City .....	168.2	170.4	170.6	9.4	8.6	10.4	5.6	5.1	6.1
Bergen-Passaic .....	724.7	712.0	721.8	19.5	21.9	21.4	2.7	3.1	3.0
Jersey City .....	269.7	264.4	267.0	13.9	15.5	15.1	5.2	5.9	5.6
Middlesex-Somerset-Hunterdon .....	559.1	556.0	563.3	12.8	13.7	13.8	2.3	2.5	2.5
Monmouth-Ocean .....	465.7	468.6	471.5	12.6	14.8	15.0	2.7	3.2	3.2
Newark .....	963.1	940.5	951.0	32.7	35.0	34.0	3.4	3.7	3.6
Trenton .....	173.3	169.3	171.6	4.5	4.5	4.7	2.6	2.7	2.7
<b>New Mexico</b> .....	687.4	706.3	709.8	56.3	49.6	45.7	8.2	7.0	6.4
Albuquerque .....	263.2	271.2	271.8	17.0	15.1	13.9	6.5	5.6	5.1
Las Cruces .....	57.3	59.9	60.1	4.1	4.1	3.4	7.1	6.8	5.7
Santa Fe .....	65.1	68.0	68.5	3.4	3.2	2.9	5.2	4.7	4.2

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. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>P</sup>
<b>New York</b> <sup>1</sup>	8,576.0	8,544.1	8,563.6	422.5	359.2	371.5	4.9	4.2	4.3
Albany-Schenectady-Troy	420.6	422.2	423.8	14.8	14.5	15.3	3.5	3.4	3.6
Binghamton	126.4	127.1	127.8	4.5	4.5	4.9	3.6	3.5	3.8
Buffalo	449.3	450.3	451.2	22.5	21.4	23.1	5.0	4.7	5.1
Elmira	42.0	43.3	43.8	1.7	1.6	1.8	4.0	3.8	4.0
Nassau-Suffolk	1,428.8	1,432.6	1,437.6	43.4	48.1	47.2	3.0	3.4	3.3
New York	3,970.6	3,900.2	3,919.2	235.5	178.1	177.7	5.9	4.6	4.5
New York City	3,291.0	3,222.5	3,236.4	218.0	158.9	157.6	6.6	4.9	4.9
Orange County	131.9	134.9	134.3	4.5	4.9	5.3	3.4	3.7	4.0
Poughkeepsie	128.2	130.2	130.1	3.7	3.5	3.6	2.9	2.7	2.8
Rochester	499.8	500.8	501.2	19.4	17.6	19.6	3.9	3.5	3.9
Syracuse	323.2	318.1	319.4	17.7	12.7	14.2	5.5	4.0	4.5
Utica-Rome	135.8	137.7	136.8	6.3	6.2	6.9	4.6	4.5	5.0
<b>North Carolina</b> <sup>1</sup>	3,317.3	3,376.7	3,378.5	133.4	127.9	123.0	4.0	3.8	3.6
Asheville	87.6	88.8	89.0	3.4	3.0	2.8	3.9	3.4	3.1
Charlotte-Gastonia-Rock Hill	641.7	657.1	657.6	21.4	22.5	22.2	3.3	3.4	3.4
Greensboro-Winston-Salem-High Point	519.5	521.6	523.6	17.3	17.6	16.9	3.3	3.4	3.2
Raleigh-Durham	402.3	409.2	408.7	11.7	11.2	10.0	2.9	2.7	2.4
<b>North Dakota</b>	331.4	337.9	331.8	14.8	13.5	17.4	4.5	4.0	5.2
Bismarck	45.2	44.9	45.1	2.2	2.0	2.8	4.9	4.4	6.1
Fargo-Moorhead	87.0	88.7	88.1	2.9	2.1	2.6	3.3	2.3	2.9
Grand Forks	37.4	37.4	37.6	1.4	1.1	1.4	3.8	3.1	3.8
<b>Ohio</b> <sup>1</sup>	5,284.6	5,327.5	5,359.6	304.6	275.7	284.4	5.8	5.2	5.3
Akron	323.5	324.6	324.3	18.6	16.3	16.7	5.8	5.0	5.1
Canton	189.9	190.1	190.2	12.5	10.3	10.6	6.6	5.4	5.6
Cincinnati	756.5	766.5	771.4	39.1	34.5	35.8	5.2	4.5	4.6
Cleveland	936.9	936.4	937.0	49.9	44.8	45.4	5.3	4.8	4.8
Columbus	707.8	718.0	722.5	33.5	32.2	34.3	4.7	4.5	4.8
Dayton-Springfield	467.8	472.2	472.7	22.6	22.7	22.1	4.8	4.8	4.7
Toledo	313.6	317.0	317.9	18.1	16.2	17.0	5.8	5.1	5.3
Youngstown-Warren	220.2	222.2	222.8	15.8	13.4	14.1	7.2	6.0	6.3
<b>Oklahoma</b>	1,544.0	1,508.9	1,516.7	98.0	95.9	92.0	6.3	6.4	6.1
Enid	30.0	28.8	28.8	1.7	1.5	1.4	5.7	5.3	4.9
Lawton	49.6	48.2	48.5	2.3	2.8	2.7	4.7	5.9	5.5
Oklahoma City	503.9	489.8	492.1	26.6	26.5	24.5	5.3	5.4	5.0
Tulsa	343.1	338.5	337.6	25.6	23.1	22.0	7.5	6.8	6.5
<b>Oregon</b>	1,405.5	1,413.7	1,423.1	75.7	70.0	77.8	5.4	4.9	5.5
Eugene-Springfield	140.3	141.7	143.8	7.6	7.1	7.5	5.4	5.0	5.2
Portland	645.4	642.6	650.8	29.9	27.8	28.9	4.6	4.3	4.4
Salem	128.3	133.1	132.2	7.0	6.1	7.0	5.5	4.6	5.3
<b>Pennsylvania</b> <sup>1</sup>	5,724.5	5,770.1	5,738.6	299.8	291.9	247.8	5.2	5.1	4.3
Allentown-Bethlehem	320.2	321.5	320.1	15.0	13.6	11.6	4.7	4.2	3.6
Altoona	59.4	60.2	59.5	4.2	4.1	3.6	7.1	6.8	6.0
Beaver County	62.0	63.3	62.3	5.6	5.4	4.5	9.1	8.5	7.2
Erie	129.1	129.8	128.6	8.6	7.9	6.4	6.7	6.1	5.0
Harrisburg-Lebanon-Carlisle	316.6	320.2	317.1	13.7	13.4	11.7	4.3	4.2	3.7
Johnstown	93.8	94.2	93.1	7.4	6.6	5.7	7.9	7.0	6.1
Lancaster	216.4	220.5	218.3	9.4	8.9	6.7	4.3	4.0	3.1
Philadelphia	2,423.0	2,408.1	2,412.4	94.3	99.8	85.1	3.9	4.1	3.5
Pittsburgh	955.5	953.9	944.3	56.2	52.9	44.9	5.9	5.5	4.8
Reading	174.1	178.9	179.6	7.9	6.6	6.5	4.5	3.7	3.6
Scranton-Wilkes-Barre	351.9	357.1	354.8	22.8	20.9	19.0	6.5	5.9	5.3
Williamsport	59.8	61.8	61.7	3.3	3.0	2.8	5.6	4.9	4.5
York	213.5	219.0	218.9	9.6	9.7	8.4	4.5	4.4	3.8
<b>Rhode Island</b>	526.1	527.9	534.4	16.3	13.4	14.6	3.1	2.5	2.7
Pawtucket-Woonsocket-Attleboro	169.0	169.9	171.6	5.6	5.4	6.2	3.3	3.2	3.6
Providence	343.1	344.5	348.6	10.2	8.3	9.0	3.0	2.4	2.6
<b>South Carolina</b>	1,651.9	1,697.3	1,699.7	83.9	78.0	75.4	5.1	4.6	4.4
Charleston	222.6	233.3	234.1	9.7	9.3	8.9	4.3	4.0	3.8
Columbia	229.8	238.3	239.7	8.7	8.0	7.6	3.8	3.3	3.2
Greenville-Spartanburg	324.0	338.4	338.8	12.7	11.8	11.5	3.9	3.5	3.4
<b>South Dakota</b>	358.5	357.0	348.9	18.2	14.8	14.9	5.1	4.2	4.3
Rapid City	39.5	39.6	38.2	1.7	2.1	1.8	4.3	5.4	4.7
Sioux Falls	74.6	71.2	70.8	4.7	2.9	3.1	6.3	4.0	4.4

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. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>	Nov. 1987	Oct. 1988	Nov. 1988 <sup>p</sup>
<b>Tennessee</b> .....	2,360.1	2,329.5	2,357.9	138.6	131.7	135.7	5.9	5.7	5.8
Chattanooga .....	209.2	213.0	215.1	10.3	11.9	12.1	4.9	5.6	5.6
Johnson City-Kingsport-Bristol .....	220.4	215.7	221.0	13.5	10.4	11.9	6.1	4.8	5.4
Knoxville .....	285.6	278.1	281.1	16.5	14.6	16.8	5.8	5.3	6.0
Memphis LMA .....	452.7	449.0	451.6	24.1	23.1	22.8	5.3	5.1	5.0
Nashville .....	520.0	503.0	507.9	22.5	21.5	21.7	4.3	4.3	4.3
<b>Texas<sup>1</sup></b> .....	8,390.4	8,375.4	8,420.0	659.5	571.2	552.0	7.9	6.8	6.6
Abilene .....	55.2	55.8	56.1	4.2	3.1	3.1	7.7	5.6	5.5
Amarillo .....	102.9	101.8	102.0	6.4	6.1	5.9	6.3	6.0	5.8
Austin .....	437.9	428.0	430.8	28.7	24.1	22.8	6.6	5.6	5.3
Beaumont-Port Arthur .....	163.2	161.8	162.4	18.0	15.2	14.8	11.0	9.4	9.1
Brazoria .....	82.7	83.7	84.1	7.3	5.9	5.9	8.8	7.1	7.0
Brownsville-Harlingen .....	97.7	98.1	98.0	13.9	11.5	10.9	14.3	11.8	11.1
Bryan-College Station .....	58.9	60.1	60.8	2.9	2.7	2.5	5.0	4.5	4.1
Corpus Christi .....	161.7	160.6	161.3	17.1	13.8	13.0	10.6	8.6	8.0
Dallas .....	1,481.1	1,470.9	1,478.6	90.7	82.5	78.3	6.1	5.6	5.3
El Paso .....	238.3	243.5	243.3	25.2	25.8	24.8	10.6	10.6	10.2
Fort Worth-Arlington .....	689.5	683.0	685.3	45.0	40.4	38.6	6.5	5.9	5.6
Galveston-Texas City .....	108.4	105.3	105.6	10.6	8.4	8.0	9.8	8.0	7.5
Houston .....	1,631.3	1,643.8	1,656.4	129.4	101.4	97.8	7.9	6.2	5.9
Killeen-Temple .....	95.3	97.6	97.8	7.5	7.8	7.2	7.9	8.0	7.4
Laredo .....	46.4	47.5	48.2	6.7	5.6	5.6	14.3	11.7	11.7
Longview-Marshall .....	80.1	80.4	80.4	7.6	6.8	6.5	9.5	8.5	8.1
Lubbock .....	114.9	115.5	116.7	6.4	5.8	5.3	5.5	5.0	4.6
McAllen-Edinburg-Mission .....	153.4	153.0	156.4	28.5	25.3	24.8	18.6	16.6	15.9
Midland .....	50.8	50.4	50.8	3.8	2.7	2.7	7.4	5.4	5.3
Odessa .....	54.2	53.6	54.1	4.4	4.0	4.0	8.0	7.4	7.3
San Angelo .....	46.2	46.5	46.6	2.7	2.8	2.5	5.9	5.9	5.4
San Antonio .....	623.1	629.9	632.5	47.9	46.6	44.4	7.7	7.4	7.0
Sherman-Denison .....	50.7	49.6	49.6	3.8	3.2	3.0	7.4	6.5	6.1
Texarkana .....	59.3	58.3	58.7	4.6	4.4	4.4	7.8	7.5	7.5
Tyler .....	77.9	77.1	77.7	6.3	5.4	5.3	8.2	7.1	6.8
Victoria .....	37.3	36.8	36.8	2.9	2.3	2.1	7.8	6.2	5.7
Waco .....	96.0	94.8	95.4	7.9	5.7	5.4	8.2	6.0	5.6
Wichita Falls .....	57.9	58.3	58.8	4.0	3.2	3.3	6.9	5.5	5.5
<b>Utah</b> .....	757.3	765.6	781.3	42.2	32.9	38.4	5.6	4.3	4.9
Provo-Orem .....	99.8	104.3	108.5	5.4	3.9	4.4	5.4	3.8	4.0
Salt Lake City-Ogden .....	504.0	503.0	512.5	26.6	21.1	24.4	5.3	4.2	4.8
<b>Vermont</b> .....	299.5	305.0	304.0	10.0	7.1	8.7	3.3	2.3	2.9
Burlington .....	75.1	79.0	78.4	1.8	1.3	1.6	2.4	1.7	2.1
<b>Virginia</b> .....	3,024.0	3,157.0	3,157.9	120.8	126.3	129.0	4.0	4.0	4.1
Charlottesville .....	67.7	71.0	71.6	1.6	2.1	1.8	2.4	3.0	2.6
Danville .....	51.6	53.9	54.0	3.5	3.7	3.6	6.8	6.8	6.6
Lynchburg .....	71.9	73.5	72.9	3.8	3.8	3.3	5.3	5.2	4.5
Norfolk-Virginia Beach-Newport News .....	602.1	634.2	630.3	28.0	31.1	30.9	4.6	4.9	4.9
Richmond-Petersburg .....	436.4	459.8	459.5	16.3	15.6	16.5	3.7	3.4	3.6
Roanoke .....	119.7	121.2	121.9	5.1	5.4	5.4	4.3	4.4	4.4
<b>Washington</b> .....	2,283.1	2,305.9	2,298.7	168.1	125.2	137.7	7.4	5.4	6.0
Seattle .....	1,022.7	1,035.5	1,044.5	59.5	46.7	48.4	5.8	4.5	4.6
<b>West Virginia</b> .....	746.4	724.6	747.2	68.3	63.9	67.5	9.2	8.8	9.0
Charleston .....	116.6	114.3	116.8	9.5	8.8	9.0	8.2	7.7	7.7
Huntington-Ashland .....	126.7	124.8	127.2	11.3	8.5	8.8	8.9	6.8	6.9
Parkersburg-Marietta .....	72.0	69.9	71.2	5.2	4.4	4.5	7.2	6.3	6.4
Wheeling .....	71.9	70.1	71.9	5.8	4.8	5.1	8.1	6.8	7.2
<b>Wisconsin</b> .....	2,533.9	2,593.9	2,601.3	139.6	88.9	98.1	5.5	3.4	3.8
Appleton-Oshkosh-Neenah .....	166.9	174.6	175.3	8.8	5.7	6.4	5.3	3.3	3.6
Eau Claire .....	71.8	75.2	75.9	4.2	2.4	3.0	5.9	3.1	4.0
Green Bay .....	108.5	112.4	113.1	6.2	4.1	4.2	5.7	3.6	3.7
Janesville-Beloit .....	72.3	74.2	76.0	4.5	2.6	3.4	6.2	3.4	4.5
Kenosha .....	56.2	56.4	56.1	3.7	1.9	2.0	6.5	3.4	3.5
La Crosse .....	55.6	57.4	58.5	2.6	1.7	1.8	4.7	2.9	3.1
Madison .....	221.9	226.6	228.6	8.5	5.1	5.9	3.8	2.2	2.6
Milwaukee .....	750.4	775.0	778.2	35.4	24.6	24.3	4.7	3.2	3.1
Racine .....	86.8	88.7	89.8	5.1	3.4	3.8	5.8	3.8	4.2
Wausau .....	59.5	61.4	61.8	3.5	2.1	2.5	5.8	3.4	4.1
<b>Wyoming</b> .....	228.9	232.9	234.3	16.4	13.5	16.7	7.2	5.8	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 1987 have been

benchmarked to 1987 Current Population Survey annual averages. Except in the 11 States designated by footnote 1, estimates for 1988 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

# Annual Averages

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(Numbers in thousands)

Year	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Persons 14 years of age and over									
1929	( <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
Persons 16 years of age and over									
1947	101,827	59,350	58.3	57,038	7,890	49,148	2,311	3.9	42,477
1948	103,068	60,621	58.8	58,343	7,629	50,714	2,276	3.8	42,447
1949	103,994	61,286	58.9	57,651	7,658	49,993	3,637	5.9	42,708
1950	104,995	62,208	59.2	58,918	7,160	51,758	3,288	5.3	42,787
1951	104,621	62,017	59.2	59,961	6,726	53,235	2,055	3.3	42,604
1952	105,231	62,138	59.0	60,250	6,500	53,749	1,883	3.0	43,093
1953 <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	4,687	63,076	4,070	5.7	50,583
1964	124,485	73,091	58.7	69,305	4,523	64,782	3,786	5.2	51,394
1965	126,513	74,455	58.9	71,088	4,361	66,726	3,366	4.5	52,058
1966	128,058	75,770	59.2	72,895	3,979	68,915	2,875	3.8	52,288
1967	129,874	77,347	59.6	74,372	3,844	70,527	2,975	3.8	52,527
1968	132,028	78,737	59.6	75,920	3,817	72,103	2,817	3.6	53,291
1969	134,335	80,734	60.1	77,902	3,606	74,296	2,832	3.5	53,602
1970	137,085	82,771	60.4	78,678	3,463	75,215	4,093	4.9	54,315
1971	140,216	84,382	60.2	79,367	3,394	75,972	5,016	5.9	55,834
1972 <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	62,888
1988	184,613	121,669	65.9	114,968	3,169	111,800	6,701	5.5	62,944

<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, 1955 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>Men</b>									
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	4,596	37,827	3,098	6.8	8,514
1959	54,793	45,886	83.7	43,466	4,532	38,934	2,420	5.2	8,907
1960 <sup>1</sup>	55,662	46,388	83.3	43,904	4,472	39,431	2,486	5.4	9,274
1961	56,286	46,653	82.9	43,656	4,298	39,359	2,997	6.4	9,633
1962 <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	2,862	46,128	2,238	4.4	13,076
1971	65,942	52,180	79.1	49,390	2,795	46,595	2,789	5.3	13,762
1972 <sup>1</sup>	67,835	53,555	78.9	50,896	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	7.1	16,585
1977	75,193	58,396	77.7	54,728	2,671	52,057	3,667	6.3	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	56,787	2,704	54,083	6,260	9.9	19,484
1984	83,605	63,835	76.4	59,091	2,668	56,423	4,744	7.4	19,771
1985	84,469	64,411	76.3	59,891	2,535	57,356	4,521	7.0	20,058
1986 <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
1988	87,857	66,927	76.2	63,273	2,493	60,780	3,655	5.5	20,930
<b>Women</b>									
1955	57,574	20,548	35.7	19,551	1,184	18,366	998	4.9	37,026
1956	58,228	21,461	36.9	20,419	1,244	19,175	1,039	4.8	36,769
1957	58,951	21,732	36.9	20,714	1,123	19,591	1,018	4.7	37,218
1958	59,690	22,118	37.1	20,613	990	19,623	1,504	6.8	37,574
1959	60,534	22,483	37.1	21,164	1,033	20,131	1,320	5.9	38,053
1960 <sup>1</sup>	61,582	23,240	37.7	21,874	986	20,887	1,366	5.9	38,343
1961	62,484	23,806	38.1	22,090	902	21,187	1,717	7.2	38,679
1962 <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	1,468	5.2	40,608
1968	70,179	29,204	41.6	27,807	660	27,147	1,397	4.8	40,976
1969	71,436	30,513	42.7	29,084	643	28,441	1,429	4.7	40,924
1970	72,782	31,543	43.3	29,688	601	29,087	1,855	5.9	41,239
1971	74,274	32,202	43.4	29,976	599	29,377	2,227	6.9	42,072
1972 <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	3,486	9.3	43,386
1976	82,390	38,983	47.3	35,615	588	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	669	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	656	41,461	3,370	7.4	42,861
1981	89,618	46,696	52.1	43,000	667	42,333	3,696	7.9	42,922
1982	90,748	47,755	52.6	43,256	665	42,591	4,499	9.4	42,993
1983	91,684	48,503	52.9	44,047	680	43,367	4,457	9.2	43,181
1984	92,778	49,709	53.6	45,915	653	45,262	3,794	7.6	43,068
1985	93,736	51,050	54.5	47,259	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
1988	96,756	54,742	56.6	51,696	676	51,020	3,046	5.6	42,014

<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**

(Numbers in thousands)

Age, sex, and race	1988										
	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>TOTAL</b>											
16 years and over .....	184,613	121,669	65.9	114,968	6,701	5.5	62,944	28,036	7,565	3,194	24,149
16 to 19 years .....	14,527	8,031	55.3	6,805	1,226	15.3	6,497	457	4,923	34	1,083
16 to 17 years .....	7,284	3,286	45.1	2,713	573	17.4	3,998	135	3,208	10	645
18 to 19 years .....	7,243	4,745	65.5	4,092	653	13.8	2,499	321	1,715	24	437
20 to 24 years .....	18,434	14,505	78.7	13,244	1,261	8.7	3,929	1,503	1,600	100	727
25 to 54 years .....	101,398	84,041	82.9	80,290	3,751	4.5	17,356	12,026	1,001	1,176	3,152
25 to 34 years .....	42,611	35,503	83.3	33,574	1,929	5.4	7,108	5,019	671	309	1,108
25 to 29 years .....	21,291	17,769	83.5	16,728	1,041	5.9	3,521	2,384	425	136	578
30 to 34 years .....	21,320	17,733	83.2	16,847	888	5.0	3,585	2,635	247	174	530
35 to 44 years .....	34,784	29,435	84.6	28,269	1,166	4.0	5,349	3,775	260	368	946
35 to 39 years .....	18,856	15,925	84.5	15,254	671	4.2	2,930	2,113	161	174	492
40 to 44 years .....	15,928	13,510	84.8	13,015	494	3.7	2,418	1,671	98	194	455
45 to 54 years .....	24,004	19,104	79.6	18,447	657	3.4	4,900	3,232	70	500	1,098
45 to 49 years .....	12,921	10,656	82.5	10,276	380	3.6	2,265	1,551	43	218	453
50 to 54 years .....	11,082	8,448	76.2	8,171	277	3.3	2,635	1,681	27	283	644
55 to 64 years .....	21,641	11,808	54.6	11,433	375	3.2	9,833	4,830	28	724	4,251
55 to 59 years .....	10,838	7,121	65.7	6,891	230	3.2	3,717	2,107	19	354	1,238
60 to 64 years .....	10,803	4,687	43.4	4,541	146	3.1	6,116	2,723	10	370	3,012
65 years and over .....	28,612	3,284	11.5	3,197	87	2.7	25,328	9,220	13	1,158	14,936
65 to 69 years .....	9,632	1,979	20.1	1,921	58	2.9	7,854	2,962	5	282	4,605
70 years and over .....	18,779	1,305	6.9	1,276	30	2.3	17,474	6,259	8	876	10,330
<b>Men</b>											
16 years and over .....	87,657	66,927	76.2	63,273	3,655	5.5	20,930	565	3,805	1,772	14,788
16 to 19 years .....	7,304	4,159	56.9	3,492	667	16.0	3,144	32	2,535	21	556
16 to 17 years .....	3,715	1,714	46.1	1,403	311	18.2	2,001	18	1,655	5	326
18 to 19 years .....	3,588	2,445	68.1	2,089	356	14.6	1,143	17	881	16	230
20 to 24 years .....	8,931	7,594	85.0	6,916	676	8.9	1,337	29	853	65	389
25 to 54 years .....	49,570	46,382	93.6	44,360	2,022	4.4	3,188	209	403	782	1,793
25 to 34 years .....	20,937	19,742	94.3	18,702	1,040	5.3	1,195	81	296	215	602
25 to 29 years .....	10,449	9,794	93.7	9,238	556	5.7	655	38	204	96	318
30 to 34 years .....	10,466	9,946	94.9	9,485	484	4.9	539	43	93	119	284
35 to 44 years .....	17,006	16,074	94.5	15,457	617	3.6	934	65	84	255	531
35 to 39 years .....	9,245	8,760	94.8	8,408	352	4.0	485	34	53	125	273
40 to 44 years .....	7,783	7,314	94.2	7,050	264	3.6	449	31	30	129	258
45 to 54 years .....	11,625	10,566	90.9	10,201	368	3.5	1,059	62	23	313	661
45 to 49 years .....	6,274	5,834	93.0	5,630	204	3.5	440	26	13	136	263
50 to 54 years .....	5,351	4,733	88.4	4,571	162	3.4	819	34	10	178	397
55 to 64 years .....	10,193	6,831	67.0	6,591	240	3.5	3,382	94	12	451	2,805
55 to 59 years .....	5,166	4,099	79.3	3,954	145	3.5	1,068	41	9	230	788
60 to 64 years .....	5,026	2,732	54.4	2,638	95	3.5	2,294	53	2	221	2,018
65 years and over .....	11,859	1,960	16.5	1,911	49	2.5	9,899	201	2	452	9,244
65 to 69 years .....	4,462	1,152	25.8	1,122	31	2.7	3,310	58	1	148	3,103
70 years and over .....	7,397	808	10.9	789	19	2.3	6,589	143	1	304	6,141
<b>Women</b>											
16 years and over .....	96,756	54,742	56.6	51,696	3,046	5.6	42,014	27,471	3,780	1,422	9,361
16 to 19 years .....	7,224	3,872	53.8	3,313	558	14.4	3,352	424	2,368	13	527
16 to 17 years .....	3,569	1,572	44.0	1,310	262	16.6	1,997	120	1,553	5	319
18 to 19 years .....	3,655	2,300	62.9	2,003	297	12.9	1,355	305	834	6	208
20 to 24 years .....	9,503	6,910	72.7	6,328	585	8.5	2,593	1,474	747	35	338
25 to 54 years .....	51,828	37,659	72.7	35,929	1,729	4.6	14,168	11,817	598	394	1,359
25 to 34 years .....	21,674	15,761	72.7	14,872	889	5.6	5,913	4,938	375	94	506
25 to 29 years .....	10,842	7,975	73.6	7,490	485	6.1	2,866	2,346	221	40	260
30 to 34 years .....	10,832	7,785	71.9	7,362	404	5.2	3,046	2,592	154	55	246
35 to 44 years .....	17,776	13,361	75.2	12,811	550	4.1	4,415	3,710	176	114	415
35 to 39 years .....	9,611	7,165	74.6	6,846	319	4.5	2,445	2,070	108	49	219
40 to 44 years .....	6,165	6,196	75.9	5,965	230	3.7	1,969	1,640	68	65	197
45 to 54 years .....	12,376	8,537	69.0	8,246	291	3.4	3,641	3,169	47	187	438
45 to 49 years .....	6,847	4,822	72.5	4,646	176	3.7	1,825	1,523	30	82	190
50 to 54 years .....	5,731	3,715	64.8	3,600	115	3.1	2,016	1,647	17	105	247
55 to 64 years .....	11,446	4,977	43.5	4,841	136	2.7	6,471	4,736	17	273	1,446
55 to 59 years .....	5,672	3,022	53.3	2,938	85	2.6	2,650	2,066	9	124	451
60 to 64 years .....	5,777	1,955	33.8	1,904	51	2.8	3,822	2,671	7	149	995
65 years and over .....	16,753	1,324	7.9	1,286	38	2.9	15,429	9,020	11	706	5,692
65 to 69 years .....	5,370	827	15.4	799	27	3.3	4,544	2,904	4	134	1,502
70 years and over .....	11,382	497	4.4	487	11	2.1	10,885	6,116	7	572	4,169



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

(Numbers in thousands)

Age, sex, and race	1988										
	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>WHITE</b>											
16 years and over .....	158,194	104,756	66.2	99,812	4,944	4.7	53,439	24,406	5,707	2,442	20,884
16 to 19 years .....	11,838	6,940	58.6	6,030	910	13.1	4,897	341	3,716	28	813
16 to 17 years .....	5,893	2,861	48.5	2,424	437	15.3	3,032	102	2,422	7	500
18 to 19 years .....	5,945	4,079	68.6	3,606	473	11.6	1,865	239	1,294	20	312
20 to 24 years .....	15,276	12,311	80.6	11,438	874	7.1	2,965	1,167	1,240	64	494
25 to 54 years .....	86,344	72,099	83.5	69,318	2,781	3.9	14,247	10,230	719	876	2,421
25 to 34 years .....	35,876	30,167	84.1	28,796	1,371	4.5	5,709	4,183	479	234	814
25 to 29 years .....	17,869	15,076	84.4	14,341	735	4.9	2,793	1,973	303	104	412
30 to 34 years .....	18,007	15,091	83.8	14,455	636	4.2	2,916	2,211	175	128	401
35 to 44 years .....	29,818	25,358	85.0	24,468	890	3.5	4,459	3,276	188	279	717
35 to 39 years .....	16,027	13,609	84.9	13,105	504	6.0	2,418	1,829	112	127	368
40 to 44 years .....	13,790	11,749	85.2	11,363	386	3.3	2,042	1,469	75	152	349
45 to 54 years .....	20,652	16,573	80.3	16,054	520	3.1	4,078	2,771	52	364	890
45 to 49 years .....	11,115	9,250	83.2	8,947	302	3.3	1,866	1,318	32	162	359
50 to 54 years .....	9,536	7,324	76.8	7,107	217	4.1	2,212	1,482	20	202	531
55 to 64 years .....	18,996	10,462	55.1	10,153	309	3.0	8,534	4,260	21	555	3,698
55 to 59 years .....	9,440	6,281	66.5	6,094	187	3.0	3,159	1,835	12	265	1,046
60 to 64 years .....	9,556	4,181	43.8	4,059	122	2.9	5,375	2,425	8	290	2,652
65 years and over .....	25,739	2,943	11.4	2,874	69	2.4	22,796	8,408	12	919	13,458
65 to 69 years .....	8,774	1,772	20.2	1,724	47	2.7	7,002	2,664	4	215	4,120
70 years and over .....	16,966	1,172	6.9	1,150	22	1.9	15,794	5,744	8	704	9,338
<b>Men</b>											
16 years and over .....	75,855	58,317	76.9	55,550	2,766	4.7	17,538	426	2,887	1,370	12,856
16 to 19 years .....	5,968	3,583	60.0	3,084	499	13.9	2,385	23	1,927	16	419
16 to 17 years .....	3,015	1,487	49.3	1,248	239	16.1	1,528	11	1,256	4	256
18 to 19 years .....	2,953	2,095	71.0	1,836	260	12.4	858	12	671	12	162
20 to 24 years .....	7,473	6,468	86.6	5,987	480	7.4	1,005	19	681	40	264
25 to 54 years .....	42,724	40,371	94.5	38,823	1,548	3.8	2,354	142	270	597	1,344
25 to 34 years .....	17,867	17,018	95.2	16,241	777	4.6	849	51	204	162	432
25 to 29 years .....	8,872	8,410	94.8	7,997	413	4.9	461	23	143	73	222
30 to 34 years .....	8,995	8,608	95.7	8,244	364	4.2	387	29	60	88	210
35 to 44 years .....	14,743	14,068	95.4	13,590	477	3.4	676	49	53	193	382
35 to 39 years .....	7,952	7,608	95.7	7,338	270	3.6	344	25	32	93	194
40 to 44 years .....	6,791	6,460	95.1	6,252	207	3.2	332	24	20	99	188
45 to 54 years .....	10,114	9,285	91.8	8,992	293	3.2	830	42	14	243	531
45 to 49 years .....	5,460	5,123	93.8	4,959	164	3.2	337	18	8	105	206
50 to 54 years .....	4,654	4,162	89.4	4,033	129	3.1	492	24	6	138	325
55 to 64 years .....	9,001	6,108	67.9	5,909	200	3.3	2,893	74	6	352	2,461
55 to 59 years .....	4,529	3,651	80.6	3,531	120	3.3	878	31	5	175	667
60 to 64 years .....	4,473	2,457	54.9	2,377	80	3.3	2,016	43	1	177	1,794
65 years and over .....	10,688	1,787	16.7	1,748	40	2.2	8,900	168	1	364	8,368
65 to 69 years .....	4,004	1,053	26.3	1,028	25	2.4	2,951	46	1	116	2,789
70 years and over .....	6,684	735	11.0	720	15	2.0	5,949	122	1	247	5,579
<b>Women</b>											
16 years and over .....	82,340	46,439	56.4	44,262	2,177	4.7	35,901	23,981	2,820	1,072	8,027
16 to 19 years .....	5,869	3,358	57.2	2,946	412	12.3	2,512	318	1,788	11	394
16 to 17 years .....	2,878	1,374	47.7	1,176	198	14.4	1,504	91	1,166	3	244
18 to 19 years .....	2,991	1,984	66.3	1,770	214	10.8	1,007	227	623	8	150
20 to 24 years .....	7,804	5,844	74.9	5,450	393	6.7	1,960	1,148	559	23	229
25 to 54 years .....	43,620	31,728	72.7	30,495	1,233	3.9	11,893	10,088	449	279	1,077
25 to 34 years .....	18,009	13,149	73.0	12,555	594	4.5	4,860	4,132	275	72	382
25 to 29 years .....	8,997	6,666	74.1	6,344	322	4.8	2,332	1,950	160	31	190
30 to 34 years .....	9,012	6,483	71.9	6,211	272	4.2	2,529	2,182	115	40	191
35 to 44 years .....	15,074	11,291	74.9	10,878	413	3.7	3,784	3,227	135	86	335
35 to 39 years .....	8,075	6,001	74.3	5,767	234	3.9	2,074	1,787	80	34	174
40 to 44 years .....	6,999	5,289	75.6	5,111	179	3.4	1,710	1,441	55	53	161
45 to 54 years .....	10,537	7,288	69.2	7,062	227	3.1	3,249	2,729	38	121	360
45 to 49 years .....	5,655	4,127	73.0	3,988	138	3.4	1,529	1,294	24	57	153
50 to 54 years .....	4,882	3,162	64.8	3,074	88	2.8	1,720	1,435	14	64	206
55 to 64 years .....	9,994	4,354	43.6	4,244	110	2.5	5,640	4,186	14	203	1,237
55 to 59 years .....	4,911	2,630	53.5	2,563	67	2.5	2,281	1,804	7	91	379
60 to 64 years .....	5,083	1,724	33.9	1,682	42	2.5	3,359	2,382	7	112	858
65 years and over .....	15,052	1,156	7.7	1,126	30	2.6	13,896	8,240	10	555	5,090
65 to 69 years .....	4,770	719	15.1	696	22	3.1	4,051	2,618	3	99	1,331
70 years and over .....	10,282	437	4.3	430	7	1.6	9,845	5,622	7	457	3,759

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

(Numbers in thousands)

Age, sex, and race	1988										
	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 .....	20,692	13,205	63.8	11,658	1,547	11.7	7,487	2,756	1,340	683	2,709
16 to 19 years .....	2,179	889	40.8	601	288	32.4	1,291	101	956	7	227
16 to 17 years .....	1,130	344	30.4	223	121	35.1	787	28	636	3	120
18 to 19 years .....	1,049	545	51.9	378	167	30.7	504	74	320	4	106
20 to 24 years .....	2,527	1,782	70.5	1,433	349	19.6	745	280	237	34	193
25 to 54 years .....	11,474	9,190	80.1	8,346	843	9.2	2,285	1,274	142	267	603
25 to 34 years .....	5,234	4,226	80.8	3,725	502	11.9	1,007	592	97	72	247
25 to 29 years .....	2,671	2,135	79.9	1,859	276	12.9	536	305	61	30	140
30 to 34 years .....	2,563	2,092	81.6	1,866	226	10.8	471	287	35	42	107
35 to 44 years .....	3,716	3,069	82.6	2,839	230	7.5	647	347	37	77	187
35 to 39 years .....	2,122	1,755	82.7	1,615	140	8.0	367	201	24	40	100
40 to 44 years .....	1,594	1,314	82.4	1,224	90	6.8	280	145	12	37	86
45 to 54 years .....	2,524	1,894	75.0	1,783	111	5.9	630	335	8	118	169
45 to 49 years .....	1,343	1,044	77.7	984	60	5.7	298	170	5	49	74
50 to 54 years .....	1,181	849	71.9	798	51	6.0	332	164	3	70	95
55 to 64 years .....	2,110	1,069	50.6	1,018	51	4.8	1,041	431	4	152	454
55 to 59 years .....	1,101	661	60.1	628	33	5.0	439	201	4	75	160
60 to 64 years .....	1,010	407	40.3	389	18	4.4	602	230		77	295
65 years and over .....	2,402	276	11.5	261	15	5.5	2,126	670	1	223	1,232
65 to 69 years .....	880	165	18.8	156	9	5.5	715	238		62	414
70 years and over .....	1,523	110	7.2	104	6	5.5	1,411	432		160	818
<b>Men</b>											
16 years and over .....	9,289	6,596	71.0	5,824	771	11.7	2,694	111	630	360	1,592
16 to 19 years .....	1,074	469	43.8	316	154	32.7	606	8	478	5	115
16 to 17 years .....	569	186	32.7	122	64	34.4	383	4	321	1	58
18 to 19 years .....	505	283	56.0	193	90	31.7	222	5	157	4	56
20 to 24 years .....	1,151	913	79.3	736	177	19.4	238	8	101	24	104
25 to 54 years .....	5,144	4,510	87.7	4,107	402	8.9	635	54	48	162	370
25 to 34 years .....	2,367	2,114	89.3	1,881	233	11.0	253	25	35	50	143
25 to 29 years .....	1,208	1,071	88.7	945	126	11.8	137	13	21	22	81
30 to 34 years .....	1,159	1,043	90.0	936	107	10.3	116	12	13	28	63
35 to 44 years .....	1,656	1,459	88.2	1,348	111	7.6	196	13	11	51	122
35 to 39 years .....	946	842	89.0	774	68	8.0	104	6	7	26	64
40 to 44 years .....	709	617	87.0	573	44	7.1	92	6	3	25	58
45 to 54 years .....	1,121	936	83.5	878	58	6.2	185	16	2	61	105
45 to 49 years .....	597	515	86.4	485	30	5.8	81	7	1	28	45
50 to 54 years .....	524	420	80.2	392	28	6.7	104	9	1	34	60
55 to 64 years .....	951	565	59.4	536	30	5.2	386	15	2	87	281
55 to 59 years .....	498	343	68.8	324	19	5.5	155	7	2	46	100
60 to 64 years .....	453	223	49.2	212	11	4.7	230	8		41	181
65 years and over .....	970	139	14.3	131	8	5.6	831	26	1	82	722
65 to 69 years .....	384	78	20.4	74	5	6.1	306	8		30	267
70 years and over .....	586	60	10.3	57	3	4.9	525	18		52	455
<b>Women</b>											
16 years and over .....	11,402	6,609	58.0	5,834	776	11.7	4,793	2,644	710	323	1,117
16 to 19 years .....	1,105	419	37.9	285	134	32.0	685	93	478	2	112
16 to 17 years .....	561	158	28.1	101	57	35.9	403	24	315	2	62
18 to 19 years .....	544	262	48.2	184	78	29.6	282	69	163		50
20 to 24 years .....	1,376	869	63.2	697	172	19.8	507	272	136	10	89
25 to 54 years .....	6,330	4,680	73.9	4,239	441	9.4	1,650	1,220	94	105	233
25 to 34 years .....	2,867	2,112	73.7	1,844	269	12.7	754	567	62	22	104
25 to 29 years .....	1,463	1,064	72.7	914	150	14.1	399	292	40	8	59
30 to 34 years .....	1,404	1,049	74.7	930	119	11.3	355	275	22	14	44
35 to 44 years .....	2,060	1,610	78.1	1,491	118	7.4	451	334	26	26	65
35 to 39 years .....	1,176	913	77.6	841	72	7.9	263	195	17	14	36
40 to 44 years .....	885	697	78.8	651	46	6.6	188	139	9	12	28
45 to 54 years .....	1,403	958	68.3	905	53	5.6	445	319	6	57	64
45 to 49 years .....	746	529	70.9	499	30	5.7	217	163	4	21	29
50 to 54 years .....	657	429	65.3	406	23	5.4	228	155	2	36	35
55 to 64 years .....	1,159	504	43.4	482	22	4.3	656	416	2	65	173
55 to 59 years .....	603	319	52.9	305	14	4.5	284	194	1	30	59
60 to 64 years .....	557	185	33.2	177	7	4.0	372	222		36	114
65 years and over .....	1,432	137	9.6	129	7	5.4	1,295	644		141	510
65 to 69 years .....	496	87	17.5	82	4	4.9	409	230		32	147
70 years and over .....	937	50	5.4	47	3	6.3	886	414		108	363

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

(Numbers in thousands)

Age and sex	1988								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 .....	26,418	16,913	64.0	15,156	203	14,953	1,757	10.4	9,505
16 to 19 years .....	2,690	1,090	40.5	774	10	765	316	29.0	1,600
16 to 17 years .....	1,391	425	30.5	288	3	286	136	32.1	966
18 to 19 years .....	1,299	665	51.2	486	7	479	179	27.0	633
20 to 24 years .....	3,158	2,193	69.5	1,806	20	1,787	387	17.6	965
25 to 54 years .....	15,053	11,943	79.3	10,973	126	10,847	972	8.1	3,110
25 to 34 years .....	6,735	5,336	79.2	4,779	61	4,717	558	10.4	1,399
25 to 29 years .....	3,423	2,694	78.7	2,387	33	2,355	307	11.4	729
30 to 34 years .....	3,313	1,413	42.6	2,391	28	2,363	252	17.8	670
35 to 44 years .....	4,966	4,077	82.1	3,801	31	3,769	276	6.8	890
35 to 39 years .....	2,828	2,316	81.9	2,149	15	2,134	167	7.2	512
40 to 44 years .....	2,138	1,761	82.4	1,652	16	1,636	108	6.1	377
45 to 54 years .....	3,352	2,530	75.5	2,393	32	2,361	137	5.4	822
45 to 49 years .....	1,806	1,407	77.9	1,329	14	1,315	78	5.5	399
50 to 54 years .....	1,546	1,123	72.6	1,065	19	1,046	58	5.2	423
55 to 64 years .....	2,645	1,346	50.9	1,280	30	1,250	66	4.9	1,299
55 to 59 years .....	1,398	840	60.1	797	16	781	43	5.1	558
60 to 64 years .....	1,247	506	40.6	483	13	469	23	4.6	741
65 years and over .....	2,872	341	11.9	323	19	304	18	5.2	2,532
65 to 69 years .....	1,058	208	19.7	197	7	190	11	5.3	852
70 years and over .....	1,813	133	7.3	127	13	113	11	8.3	1,680
<b>Men</b>									
16 years and over .....	12,002	8,611	71.7	7,722	175	7,547	888	10.3	3,392
16 to 19 years .....	1,335	576	43.2	407	8	400	169	29.3	759
16 to 17 years .....	700	227	32.4	154	3	152	72	31.9	473
18 to 19 years .....	635	349	55.0	253	5	248	96	27.6	285
20 to 24 years .....	1,458	1,126	77.2	931	15	916	196	17.4	332
25 to 54 years .....	6,846	6,012	87.8	5,538	111	5,427	475	7.9	834
25 to 34 years .....	3,070	2,724	88.7	2,462	55	2,407	262	9.6	346
25 to 29 years .....	1,578	1,384	87.7	1,241	29	1,212	143	10.3	194
30 to 34 years .....	1,493	1,341	89.8	1,221	25	1,196	120	8.9	152
35 to 44 years .....	2,265	2,006	88.6	1,867	26	1,841	139	6.9	258
35 to 39 years .....	1,293	1,152	89.1	1,070	12	1,058	82	7.1	141
40 to 44 years .....	972	855	87.9	797	14	783	57	6.7	117
45 to 54 years .....	1,511	1,281	84.8	1,209	30	1,179	73	5.7	229
45 to 49 years .....	814	711	87.4	671	12	659	40	5.6	103
50 to 54 years .....	697	570	81.8	538	18	520	32	5.7	127
55 to 64 years .....	1,191	723	60.7	683	25	658	40	5.6	468
55 to 59 years .....	638	448	70.2	422	12	410	25	5.7	190
60 to 64 years .....	553	275	49.8	261	12	248	15	5.3	278
65 years and over .....	1,172	173	14.7	163	17	146	9	5.4	999
65 to 69 years .....	458	100	21.7	94	6	88	6	5.7	359
70 years and over .....	713	73	10.3	70	11	58	4	5.0	640
<b>Women</b>									
16 years and over .....	14,416	8,303	57.6	7,434	28	7,406	869	10.5	6,113
16 to 19 years .....	1,355	514	37.9	367	2	365	147	28.6	841
16 to 17 years .....	691	198	28.7	134	-	134	64	32.2	493
18 to 19 years .....	664	316	47.6	233	2	231	83	26.3	348
20 to 24 years .....	1,700	1,067	62.8	875	5	871	191	17.9	633
25 to 54 years .....	8,207	5,931	72.3	5,435	15	5,420	497	8.4	2,276
25 to 34 years .....	3,665	2,612	71.3	2,317	7	2,310	295	11.3	1,053
25 to 29 years .....	1,845	1,310	71.0	1,146	4	1,143	164	12.5	535
30 to 34 years .....	1,820	1,302	71.5	1,170	3	1,167	132	10.1	518
35 to 44 years .....	2,701	2,070	76.6	1,933	5	1,928	137	6.6	631
35 to 39 years .....	1,535	1,164	75.8	1,079	3	1,076	85	7.3	371
40 to 44 years .....	1,166	906	77.7	855	2	853	51	5.7	260
45 to 54 years .....	1,841	1,249	67.8	1,185	3	1,182	64	5.1	592
45 to 49 years .....	992	696	70.1	658	2	656	38	5.4	296
50 to 54 years .....	849	553	65.2	527	1	526	26	4.8	296
55 to 64 years .....	1,454	623	42.9	597	5	592	26	4.2	831
55 to 59 years .....	761	392	51.6	375	4	371	17	4.5	368
60 to 64 years .....	693	231	33.3	222	1	221	9	3.8	463
65 years and over .....	1,701	168	9.9	160	2	158	8	4.9	1,533
65 to 69 years .....	600	108	17.9	103	1	102	5	4.5	493
70 years and over .....	1,100	60	5.5	57	2	55	3	5.8	1,040

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	182,753	184,613	79,565	80,553	88,583	89,532	14,606	14,527
Civilian labor force .....	119,865	121,669	62,095	62,768	49,783	50,870	7,988	8,031
Percent of population .....	65.6	65.9	78.0	77.9	56.2	56.8	54.7	55.3
Employed .....	112,440	114,968	58,726	59,781	47,074	48,383	6,640	6,805
Agriculture .....	3,208	3,169	2,329	2,271	622	625	258	273
Nonagricultural industries .....	109,232	111,800	56,397	57,510	46,453	47,757	6,382	6,532
Unemployed .....	7,425	6,701	3,369	2,987	2,709	2,487	1,347	1,226
Unemployment rate .....	6.2	5.5	5.4	4.8	5.4	4.9	16.9	15.3
Not in labor force .....	62,888	62,944	17,470	17,785	38,800	38,662	6,618	6,497
<b>White</b>								
Civilian noninstitutional population .....	156,958	158,194	69,175	69,887	75,845	76,470	11,939	11,838
Civilian labor force .....	103,290	104,756	54,232	54,734	42,164	43,081	6,893	6,940
Percent of population .....	65.8	66.2	78.4	78.3	55.6	56.3	57.7	58.6
Employed .....	97,789	99,812	51,649	52,466	40,242	41,316	5,898	6,030
Agriculture .....	2,986	2,965	2,150	2,104	590	599	246	263
Nonagricultural industries .....	94,803	96,846	49,499	50,362	39,652	40,717	5,652	5,767
Unemployed .....	5,501	4,944	2,584	2,268	1,922	1,766	995	910
Unemployment rate .....	5.3	4.7	4.8	4.1	4.6	4.1	14.4	13.1
Not in labor force .....	53,669	53,439	14,942	15,153	33,681	33,389	5,045	4,897
<b>Black</b>								
Civilian noninstitutional population .....	20,352	20,692	8,063	8,215	10,126	10,298	2,163	2,179
Civilian labor force .....	12,993	13,205	6,023	6,127	6,071	6,190	899	889
Percent of population .....	63.8	63.8	74.7	74.6	60.0	60.1	41.6	40.8
Employed .....	11,309	11,658	5,357	5,509	5,365	5,548	587	601
Agriculture .....	164	153	135	129	20	18	9	7
Nonagricultural industries .....	11,145	11,505	5,222	5,381	5,345	5,530	578	594
Unemployed .....	1,684	1,547	666	617	706	642	312	288
Unemployment rate .....	13.0	11.7	11.1	10.1	11.6	10.4	34.7	32.4
Not in labor force .....	7,359	7,487	2,040	2,089	4,054	4,108	1,264	1,291

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	1988									
	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 ENROLLED</b>										
Total, 16 to 24 years .....	12,823	6,274	48.9	5,585	1,137	4,447	689	116	573	11.0
16 to 19 years .....	8,835	3,895	44.1	3,355	363	2,992	540	67	473	13.9
20 to 24 years .....	3,988	2,380	59.7	2,230	775	1,456	149	49	100	6.3
High school .....	6,636	2,778	41.9	2,330	172	2,158	448	53	395	16.1
College .....	6,187	3,496	56.5	3,255	966	2,289	241	64	178	6.9
Full-time students .....	5,155	2,582	50.1	2,387	414	1,972	196	42	153	7.6
Part-time students .....	1,032	914	88.6	868	551	317	46	21	24	5.0
Men, 16 to 24 years .....	6,532	3,133	48.0	2,782	601	2,160	371	66	305	11.8
16 to 19 years .....	4,492	1,951	43.4	1,659	200	1,459	292	38	255	15.0
20 to 24 years .....	2,040	1,181	57.9	1,102	401	701	79	29	50	6.7
High school .....	3,511	1,472	41.9	1,220	114	1,106	252	31	222	17.1
College .....	3,021	1,660	55.0	1,541	486	1,054	119	35	83	7.2
Full-time students .....	2,563	1,247	48.7	1,153	238	915	94	23	71	7.5
Part-time students .....	458	413	90.2	389	249	139	25	12	12	6.0
Women, 16 to 24 years .....	6,291	3,142	49.9	2,823	536	2,287	318	50	268	10.1
16 to 19 years .....	4,343	1,943	44.7	1,696	163	1,533	248	30	218	12.8
20 to 24 years .....	1,948	1,198	61.5	1,128	373	754	70	21	50	5.9
High school .....	3,125	1,306	41.8	1,110	58	1,052	196	22	174	15.0
College .....	3,166	1,836	58.0	1,713	478	1,235	123	28	94	6.7
Full-time students .....	2,592	1,335	51.5	1,234	176	1,057	102	19	82	7.6
Part-time students .....	574	501	87.2	480	302	178	21	9	12	4.2
<b>White</b>										
Total, 16 to 24 years .....	10,434	5,435	52.1	4,921	1,000	3,921	514	84	430	9.5
16 to 19 years .....	7,119	3,385	47.5	2,981	321	2,660	404	49	355	11.9
20 to 24 years .....	3,314	2,050	61.8	1,939	679	1,261	110	35	75	5.4
Men .....	5,324	2,697	50.6	2,418	524	1,894	279	48	230	10.3
Women .....	5,109	2,739	53.6	2,503	476	2,027	236	36	200	8.6
High school .....	5,236	2,391	45.7	2,059	146	1,912	333	39	293	13.9
College .....	5,198	3,044	58.6	2,862	854	2,008	181	45	137	6.0
Full-time students .....	4,318	2,248	52.1	2,101	383	1,737	147	28	119	6.6
Part-time students .....	879	796	90.5	762	491	271	34	16	16	4.3
<b>Black</b>										
Total, 16 to 24 years .....	1,788	614	34.4	458	101	357	156	28	128	25.4
16 to 19 years .....	1,353	399	29.5	276	31	245	123	17	106	30.9
20 to 24 years .....	435	216	49.6	183	71	112	33	11	22	15.3
Men .....	888	317	35.7	233	56	177	84	15	69	26.5
Women .....	900	297	33.0	225	45	180	72	13	59	24.3
High school .....	1,133	315	27.8	211	21	189	104	12	91	33.0
College .....	655	300	45.8	248	80	168	52	15	37	17.4
Full-time students .....	553	223	40.4	181	36	145	42	11	31	18.6
Part-time students .....	103	77	74.7	66	44	23	10	4	6	13.4
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	972	418	43.0	347	101	246	70	15	55	16.8
16 to 19 years .....	707	247	34.9	190	30	159	57	9	48	23.2
20 to 24 years .....	265	171	64.4	158	71	87	13	6	7	7.6
Men .....	486	209	42.8	174	57	117	35	8	28	16.9
Women .....	484	209	43.1	174	44	129	35	8	27	16.8
High school .....	592	194	32.8	142	25	117	52	9	43	26.8
College .....	360	224	58.8	205	76	129	18	6	12	8.2
Full-time students .....	278	136	49.1	124	23	101	12	3	9	8.7
Part-time students .....	102	87	85.3	81	53	28	6	3	3	7.4

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	1988									
	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 .....	20,139	16,261	80.7	14,464	11,855	2,608	1,797	1,520	277	11.1
16 to 19 years .....	5,693	4,136	72.7	3,450	2,199	1,251	686	524	161	16.6
20 to 24 years .....	14,446	12,125	83.9	11,014	9,657	1,357	1,111	995	116	9.2
Less than 4 years of high school .....	5,551	3,582	64.5	2,865	1,983	882	717	576	141	20.0
4 years of high school .....	9,414	7,947	84.4	7,141	6,006	1,135	806	707	98	10.1
1 to 3 years of college .....	3,558	3,200	89.9	2,999	2,520	479	201	166	35	6.3
4 years of college or more .....	1,615	1,532	94.9	1,459	1,347	112	73	70	3	4.8
<b>Men, 16 to 24 years .....</b>	<b>9,703</b>	<b>8,621</b>	<b>88.8</b>	<b>7,648</b>	<b>6,585</b>	<b>1,064</b>	<b>972</b>	<b>862</b>	<b>110</b>	<b>11.3</b>
16 to 19 years .....	2,812	2,208	78.5	1,832	1,262	571	375	300	75	17.0
20 to 24 years .....	6,891	6,413	93.1	5,816	5,323	493	597	562	35	9.3
Less than 4 years of high school .....	2,930	2,283	77.9	1,852	1,402	450	430	369	61	18.8
4 years of high school .....	4,473	4,175	93.3	3,761	3,367	394	414	381	33	9.9
1 to 3 years of college .....	1,590	1,479	93.0	1,384	1,202	182	95	79	16	6.4
4 years of college or more .....	709	684	96.5	651	614	37	33	33	-	4.8
<b>Women, 16 to 24 years .....</b>	<b>10,436</b>	<b>7,640</b>	<b>73.2</b>	<b>6,815</b>	<b>5,271</b>	<b>1,545</b>	<b>825</b>	<b>658</b>	<b>167</b>	<b>10.8</b>
16 to 19 years .....	2,881	1,928	66.9	1,617	937	681	311	224	86	16.1
20 to 24 years .....	7,555	5,712	75.6	5,198	4,334	864	514	433	81	9.0
Less than 4 years of high school .....	2,621	1,299	49.6	1,012	580	432	287	207	80	22.1
4 years of high school .....	4,941	3,772	76.3	3,380	2,640	741	392	326	66	10.4
1 to 3 years of college .....	1,969	1,721	87.4	1,615	1,318	297	106	87	19	6.1
4 years of college or more .....	906	848	93.6	808	733	75	40	38	3	4.7
<b>White</b>										
Total, 16 to 24 years .....	16,680	13,817	82.8	12,547	10,343	2,204	1,270	1,062	207	9.2
16 to 19 years .....	4,718	3,555	75.4	3,049	1,955	1,093	506	386	121	14.2
20 to 24 years .....	11,962	10,261	85.8	9,498	8,387	1,111	763	677	87	7.4
<b>Men .....</b>	<b>8,116</b>	<b>7,354</b>	<b>90.6</b>	<b>6,654</b>	<b>5,766</b>	<b>887</b>	<b>701</b>	<b>618</b>	<b>83</b>	<b>9.5</b>
<b>Women .....</b>	<b>8,564</b>	<b>6,463</b>	<b>75.5</b>	<b>5,894</b>	<b>4,577</b>	<b>1,317</b>	<b>569</b>	<b>444</b>	<b>125</b>	<b>8.8</b>
Less than 4 years of high school .....	4,457	3,004	67.4	2,485	1,735	750	519	411	108	17.3
4 years of high school .....	7,796	6,726	86.3	6,169	5,219	951	557	486	70	8.3
1 to 3 years of college .....	2,973	2,698	90.8	2,564	2,163	402	134	107	27	5.0
4 years of college or more .....	1,454	1,389	95.5	1,328	1,226	102	60	58	2	4.3
<b>Black</b>										
Total, 16 to 24 years .....	2,919	2,057	70.5	1,576	1,242	334	481	418	63	23.4
16 to 19 years .....	827	490	59.3	325	197	128	165	128	37	33.6
20 to 24 years .....	2,092	1,567	74.9	1,250	1,045	206	316	290	26	20.2
<b>Men .....</b>	<b>1,338</b>	<b>1,065</b>	<b>79.6</b>	<b>818</b>	<b>675</b>	<b>143</b>	<b>247</b>	<b>223</b>	<b>23</b>	<b>23.2</b>
<b>Women .....</b>	<b>1,581</b>	<b>991</b>	<b>62.7</b>	<b>757</b>	<b>567</b>	<b>191</b>	<b>234</b>	<b>195</b>	<b>39</b>	<b>23.6</b>
Less than 4 years of high school .....	941	491	52.2	307	198	109	184	155	29	37.4
4 years of high school .....	1,407	1,066	75.8	835	676	159	232	206	25	21.7
1 to 3 years of college .....	475	408	86.0	349	290	60	59	51	8	14.4
4 years of college or more .....	96	91	94.5	84	79	5	7	6	-	7.4
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,330	1,739	74.7	1,517	1,280	237	223	189	33	12.8
16 to 19 years .....	647	424	65.5	334	229	104	90	69	22	21.3
20 to 24 years .....	1,683	1,316	78.2	1,183	1,051	133	132	121	11	10.1
<b>Men .....</b>	<b>1,198</b>	<b>1,066</b>	<b>89.0</b>	<b>933</b>	<b>819</b>	<b>114</b>	<b>133</b>	<b>120</b>	<b>13</b>	<b>12.5</b>
<b>Women .....</b>	<b>1,132</b>	<b>673</b>	<b>59.5</b>	<b>584</b>	<b>461</b>	<b>123</b>	<b>89</b>	<b>70</b>	<b>20</b>	<b>13.3</b>
Less than 4 years of high school .....	1,160	760	65.5	634	524	109	126	106	20	16.6
4 years of high school .....	869	713	82.0	634	538	96	79	69	10	11.1
1 to 3 years of college .....	245	216	88.1	202	173	29	14	12	3	6.6
4 years of college or more .....	56	50	90.2	47	45	3	3	3	-	5.8

<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	1988							
	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 .....	95,214	93,454	1,760	19,754	16,308	3,446	5,357	1,343
16 to 19 years .....	2,562	2,436	126	4,243	3,674	569	592	634
16 to 17 years .....	455	428	27	2,257	2,048	209	160	413
18 to 19 years .....	2,105	2,007	98	1,986	1,626	360	431	222
20 years and over .....	92,653	91,019	1,634	15,510	12,633	2,877	4,765	709
20 to 24 years .....	10,431	10,141	290	2,813	2,186	627	1,044	216
25 years and over .....	82,222	80,877	1,345	12,699	10,448	2,251	3,722	492
25 to 54 years .....	71,186	70,024	1,162	9,105	7,227	1,878	3,375	376
55 years and over .....	11,036	10,853	183	3,594	3,221	373	347	116
<b>Men, 16 years and over .....</b>	<b>56,816</b>	<b>55,780</b>	<b>1,036</b>	<b>6,457</b>	<b>5,019</b>	<b>1,438</b>	<b>3,116</b>	<b>539</b>
16 to 19 years .....	1,462	1,390	72	2,029	1,747	282	338	330
20 years and over .....	55,353	54,390	963	4,427	3,272	1,155	2,778	209
20 to 24 years .....	5,724	5,552	172	1,195	904	291	590	86
25 years and over .....	49,631	48,839	792	3,234	2,369	865	2,188	123
25 to 54 years .....	42,614	41,932	682	1,748	1,043	705	1,956	67
55 years and over .....	7,017	6,907	110	1,485	1,326	159	233	56
<b>Women, 16 years and over .....</b>	<b>38,398</b>	<b>37,674</b>	<b>724</b>	<b>13,298</b>	<b>11,289</b>	<b>2,009</b>	<b>2,241</b>	<b>805</b>
16 to 19 years .....	1,099	1,046	53	2,214	1,927	287	254	305
20 years and over .....	37,299	36,628	671	11,084	9,362	1,722	1,987	500
20 to 24 years .....	4,707	4,589	118	1,618	1,282	336	454	130
25 years and over .....	32,591	32,039	552	9,465	8,080	1,385	1,533	370
25 to 54 years .....	28,572	28,092	480	7,358	6,185	1,173	1,419	310
55 years and over .....	4,018	3,946	72	2,108	1,895	213	114	60
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>49,998</b>	<b>49,118</b>	<b>880</b>	<b>5,551</b>	<b>4,411</b>	<b>1,140</b>	<b>2,355</b>	<b>411</b>
16 to 19 years .....	1,303	1,240	63	1,781	1,544	237	252	247
20 years and over .....	48,696	47,879	817	3,770	2,867	903	2,104	164
20 to 24 years .....	4,987	4,843	144	1,000	771	229	414	66
25 years and over .....	43,709	43,036	673	2,772	2,097	675	1,690	97
25 to 54 years .....	37,402	36,825	577	1,421	879	542	1,495	52
55 years and over .....	6,306	6,211	95	1,350	1,217	133	194	45
<b>Women, 16 years and over .....</b>	<b>32,402</b>	<b>31,822</b>	<b>580</b>	<b>11,860</b>	<b>10,232</b>	<b>1,628</b>	<b>1,551</b>	<b>626</b>
16 to 19 years .....	974	929	45	1,972	1,720	252	183	228
20 years and over .....	31,427	30,892	535	9,888	8,512	1,376	1,368	398
20 to 24 years .....	4,078	3,985	93	1,371	1,115	256	297	96
25 years and over .....	27,349	26,908	441	8,516	7,397	1,119	1,070	302
25 to 54 years .....	23,853	23,471	382	6,643	5,697	946	980	253
55 years and over .....	3,497	3,437	60	1,874	1,701	173	89	49
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,152</b>	<b>5,021</b>	<b>131</b>	<b>673</b>	<b>423</b>	<b>250</b>	<b>658</b>	<b>113</b>
16 to 19 years .....	127	120	7	188	152	36	79	75
20 years and over .....	5,025	4,901	124	485	271	214	579	38
20 to 24 years .....	604	581	23	132	81	51	160	17
25 years and over .....	4,420	4,319	101	352	190	162	419	21
25 to 54 years .....	3,864	3,776	88	242	102	140	390	12
55 years and over .....	556	543	13	111	88	23	29	9
<b>Women, 16 years and over .....</b>	<b>4,736</b>	<b>4,621</b>	<b>115</b>	<b>1,097</b>	<b>775</b>	<b>322</b>	<b>621</b>	<b>155</b>
16 to 19 years .....	101	94	7	185	155	30	66	68
20 years and over .....	4,636	4,528	108	912	620	292	555	87
20 to 24 years .....	511	491	20	186	116	70	141	31
25 years and over .....	4,126	4,037	89	726	504	222	412	55
25 to 54 years .....	3,713	3,634	79	528	340	188	392	47
55 years and over .....	413	403	10	198	164	34	20	8

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

**HOUSEHOLD DATA  
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**8. Employment status of persons in families by family relationship**

(Numbers in thousands)

Family relationship	1988									
	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> .....	98,537	66.4	93,055	5,482	5.6	49,916	22,791	6,907	2,265	17,953
Husbands .....	39,832	78.3	38,596	1,236	3.1	11,020	205	193	870	9,752
With employed wife .....	25,564	92.0	24,859	705	2.8	2,219	77	101	312	1,730
With unemployed wife .....	974	91.5	861	113	11.6	91	3	3	18	66
With wife not in labor force .....	13,294	60.4	12,876	418	3.1	8,709	124	89	541	7,955
Wives .....	28,848	56.7	27,784	1,064	3.7	22,003	17,881	317	357	3,448
With employed husband .....	25,720	66.6	24,859	861	3.3	12,876	11,480	256	128	1,013
With unemployed husband .....	818	66.2	705	113	13.8	418	368	10	10	30
With husband not in labor force .....	2,310	21.0	2,219	91	3.9	6,709	6,033	51	219	2,406
Relatives in married-couple families .....	13,618	64.8	12,202	1,416	10.4	7,412	751	4,504	340	1,816
16 to 19 years .....	5,274	55.6	4,604	670	12.7	4,212	116	3,415	20	661
20 to 24 years .....	4,894	77.5	4,462	432	8.8	1,422	126	976	41	280
25 years and over .....	3,450	66.0	3,136	314	9.1	1,778	509	113	279	875
Women who maintain families .....	6,665	62.1	6,121	543	8.2	4,060	2,772	190	209	889
Relatives in families maintained by women .....	5,575	60.1	4,694	882	15.8	3,702	769	1,386	315	1,231
16 to 19 years .....	1,472	49.0	1,118	354	24.0	1,532	105	1,122	11	295
20 to 24 years .....	1,564	75.3	1,313	251	16.1	512	123	199	30	160
25 years and over .....	2,540	60.5	2,263	277	10.9	1,658	541	65	274	776
Men who maintain families .....	2,188	76.4	2,045	142	6.5	675	47	31	85	512
Relatives in families maintained by men .....	1,811	63.4	1,613	198	11.0	1,045	366	286	89	305
16 to 19 years .....	346	56.3	278	68	19.6	269	18	202	1	47
20 to 24 years .....	482	78.4	431	51	10.6	133	36	59	5	33
25 years and over .....	983	60.5	904	79	8.0	643	312	25	83	225

<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	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over .....	4,101	3,655	6.2	5.5	3,324	3,046	6.2	5.6
Married, spouse present .....	1,625	1,360	3.9	3.3	1,273	1,166	4.3	3.9
Widowed, divorced, or separated .....	498	471	7.6	7.0	727	665	7.0	6.3
Single (never married) .....	1,978	1,824	11.1	9.9	1,323	1,215	9.5	8.6
White, 16 years and over .....	3,132	2,766	5.4	4.7	2,369	2,177	5.2	4.7
Married, spouse present .....	1,359	1,125	3.6	3.0	1,045	959	4.0	3.6
Widowed, divorced, or separated .....	373	344	6.8	6.1	509	464	6.1	5.5
Single (never married) .....	1,401	1,297	9.4	8.5	815	754	7.3	6.6
Black, 16 years and over .....	826	771	12.7	11.7	858	776	13.2	11.7
Married, spouse present .....	206	185	6.5	5.8	183	162	7.6	6.7
Widowed, divorced, or separated .....	113	112	11.9	11.5	200	186	10.9	9.9
Single (never married) .....	507	474	21.5	19.4	476	428	20.9	18.3
Total, 25 years and over .....	2,590	2,311	4.8	4.2	2,034	1,903	4.8	4.3
Married, spouse present .....	1,487	1,254	3.7	3.1	1,040	967	3.9	3.5
Widowed, divorced, or separated .....	468	445	7.4	6.8	647	601	6.5	5.9
Single (never married) .....	636	612	8.0	7.2	346	334	6.0	5.5
White, 25 years and over .....	2,016	1,787	4.2	3.7	1,473	1,372	4.1	3.7
Married, spouse present .....	1,239	1,036	3.5	2.9	855	795	3.6	3.2
Widowed, divorced, or separated .....	350	325	6.7	6.0	448	413	5.7	5.1
Single (never married) .....	426	426	6.5	6.1	169	165	3.9	3.6
Black, 25 years and over .....	480	440	9.4	8.4	495	469	9.6	8.8
Married, spouse present .....	190	171	6.2	5.6	146	133	6.6	6.0
Widowed, divorced, or separated .....	105	106	11.3	11.2	182	174	10.3	9.6
Single (never married) .....	185	164	16.2	13.5	168	162	14.3	12.6

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over .....	7,425	6,701	6.2	5.5	6.2	5.5	6.2	5.6
Managerial and professional specialty .....	650	577	2.3	1.9	2.2	1.8	2.4	2.1
Executive, administrative, and managerial .....	350	311	2.6	2.1	2.4	2.0	2.9	2.3
Professional specialty .....	300	266	2.0	1.7	2.0	1.6	2.1	1.9
Technical, sales, and administrative support .....	1,595	1,479	4.3	4.0	3.7	3.3	4.7	4.3
Technicians and related support .....	104	95	3.0	2.6	3.2	2.4	2.8	2.8
Sales occupations .....	691	652	4.9	4.5	3.4	3.1	6.4	6.0
Administrative support, including clerical .....	799	732	4.2	3.9	4.5	4.3	4.1	3.8
Service occupations .....	1,259	1,136	7.7	6.9	7.5	6.7	7.8	7.0
Private household .....	55	54	5.6	5.7	7.9	11.2	5.5	5.4
Protective service .....	94	81	4.7	4.0	4.3	3.5	7.0	7.0
Service, except private household and protective .....	1,110	1,000	8.3	7.4	8.7	7.8	8.1	7.2
Precision production, craft, and repair .....	875	773	6.1	5.4	6.0	5.3	6.4	5.7
Mechanics and repairers .....	191	166	4.1	3.6	4.1	3.5	3.5	5.5
Construction trades .....	470	405	8.6	7.4	8.5	7.3	14.4	8.5
Other precision production, craft, and repair .....	214	202	5.0	4.7	4.7	4.5	5.9	5.4
Operators, fabricators, and laborers .....	1,820	1,620	9.4	8.3	9.3	8.1	9.9	8.9
Machine operators, assemblers, and inspectors .....	777	673	8.9	7.7	8.0	6.7	10.0	9.0
Transportation and material moving occupations .....	366	317	7.2	6.2	7.3	6.2	6.1	5.2
Handlers, equipment cleaners, helpers, and laborers .....	677	630	12.4	11.5	12.7	11.7	11.0	10.3
Construction laborers .....	189	192	19.8	19.4	19.6	19.3	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	488	439	10.8	9.7	10.9	9.7	10.6	9.9
Farming, forestry, and fishing .....	268	260	7.1	7.0	7.0	6.8	7.6	8.3
No previous work experience .....	921	818						
16 to 19 years .....	618	552						
20 to 24 years .....	172	152						
25 years and over .....	131	114						

<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	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over .....	7,425	6,701	6.2	5.5	6.2	5.5	6.2	5.6
Nonagricultural private wage and salary workers .....	5,520	5,028	6.2	5.5	6.3	5.6	6.0	5.5
Mining .....	87	62	10.0	7.9	10.7	8.5	5.7	4.6
Construction .....	724	669	11.6	10.6	12.0	11.1	7.7	6.4
Manufacturing .....	1,305	1,161	6.0	5.3	5.4	4.7	7.2	6.4
Durable goods .....	749	653	5.8	5.0	5.6	4.7	6.4	5.8
Lumber and wood products .....	59	59	8.0	7.9	8.0	8.2	8.1	6.3
Furniture and fixtures .....	40	37	6.1	5.3	5.9	4.5	6.5	7.1
Stone, clay, and glass products .....	38	33	6.2	5.4	6.5	5.1	5.0	6.3
Primary metal industries .....	63	38	7.3	4.5	6.9	4.6	10.0	4.0
Fabricated metal products .....	93	76	7.0	5.6	6.9	5.5	7.3	5.7
Machinery, except electrical .....	131	107	5.2	4.1	4.8	3.7	6.2	5.3
Electrical machinery, equipment, and supplies .....	108	104	4.9	4.9	4.3	4.0	5.6	6.1
Transportation equipment .....	153	143	5.7	5.3	5.3	4.9	7.1	6.8
Automobiles .....	99	80	7.9	6.3	7.0	5.6	11.5	9.1
Other transportation equipment .....	54	63	3.7	4.4	3.7	4.2	3.7	5.2
Professional and photographic equipment .....	27	23	3.9	3.3	3.7	3.4	4.2	3.1
Other durable goods industries .....	36	31	6.9	5.9	6.5	5.6	7.3	6.8
Nondurable goods .....	556	508	6.3	5.7	5.0	4.7	8.0	6.9
Food and kindred products .....	159	152	8.6	8.3	7.3	7.2	11.3	10.7
Textile mill products .....	43	40	5.7	5.3	4.1	4.8	7.5	5.9
Apparel and other textile products .....	123	104	9.7	8.2	6.2	8.2	10.7	8.2
Paper and allied products .....	30	25	3.9	3.2	3.9	2.6	4.0	5.2
Printing and publishing .....	79	78	4.4	4.2	4.1	3.5	4.8	5.1
Chemicals and allied products .....	51	37	4.1	2.9	3.5	2.5	5.3	3.6
Rubber and miscellaneous plastics products .....	41	48	5.4	5.6	5.2	4.9	5.9	6.8
Other nondurable goods industries .....	30	26	7.5	6.5	5.3	5.9	10.9	7.7
Transportation and public utilities .....	277	246	4.5	3.9	4.5	3.9	4.2	3.7
Transportation .....	210	191	5.9	5.2	6.0	5.2	5.4	5.1
Communications and other public utilities .....	67	55	2.5	2.1	2.2	1.8	3.2	2.5
Wholesale and retail trade .....	1,582	1,433	6.9	6.2	6.2	5.6	7.7	6.9
Wholesale trade .....	201	187	4.5	4.3	4.2	3.8	5.3	5.3
Retail trade .....	1,381	1,246	7.5	6.7	6.9	6.2	8.0	7.1
Finance, insurance, and real estate .....	225	221	3.1	3.0	3.2	2.8	3.1	3.2
Service industries .....	1,320	1,236	5.4	4.9	5.8	5.0	5.2	4.9
Professional services .....	489	445	3.6	3.2	3.4	2.9	3.7	3.3
Other service industries .....	831	791	7.7	7.1	7.7	6.7	7.6	7.5
Agricultural wage and salary workers .....	191	192	10.5	10.6	10.3	10.2	11.2	12.0
Government, self-employed, and unpaid family workers .....	794	661	2.9	2.4	2.8	2.3	2.9	2.4
No previous work experience .....	921	818	-	-	-	-	-	-

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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	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	7,425	6,701	3,369	2,987	2,709	2,487	1,347	1,226	5,501	4,944	1,684	1,547
Job losers .....	3,566	3,092	2,289	1,939	1,067	946	210	207	2,704	2,338	761	674
On layoff .....	943	851	613	544	285	258	45	49	782	704	144	127
Other job losers .....	2,623	2,241	1,676	1,395	782	688	165	158	1,922	1,634	617	546
Job leavers .....	965	983	413	416	406	408	146	159	784	776	151	180
Reentrants .....	1,974	1,809	558	534	1,041	965	375	310	1,401	1,298	501	445
New entrants .....	920	816	108	98	194	168	617	550	613	532	271	249
<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 .....	48.0	46.1	68.0	64.9	39.4	38.1	15.6	16.9	49.1	47.2	45.2	43.6
On layoff .....	12.7	12.7	18.2	18.2	10.5	10.4	3.4	4.0	14.2	14.2	8.6	8.2
Other job losers .....	35.3	33.4	49.8	46.7	28.9	27.7	12.2	12.9	34.9	33.0	36.6	35.3
Job leavers .....	13.0	14.7	12.3	13.9	15.0	16.4	10.8	13.0	14.2	15.7	8.9	11.6
Reentrants .....	26.6	27.0	16.6	17.9	38.4	38.8	27.8	25.3	25.5	26.2	29.8	28.7
New entrants .....	12.4	12.2	3.2	3.3	7.2	6.8	45.8	44.9	11.1	10.8	16.1	16.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	3.0	2.5	3.7	3.1	2.2	1.9	2.7	2.6	2.7	2.3	5.9	5.1
Job leavers .....	.8	.8	.7	.7	.8	.8	1.8	2.0	.8	.7	1.2	1.4
Reentrants .....	1.6	1.5	.9	.9	2.1	1.9	4.7	3.9	1.4	1.2	3.9	3.4
New entrants .....	.8	.7	.2	.2	.4	.3	7.7	6.8	.6	.5	2.1	1.9

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

(Percent distribution)

Reason, sex, and age	1988						
	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 .....	6,701	100.0	46.0	30.0	24.0	12.0	12.1
Job losers .....	3,092	100.0	37.1	31.8	31.3	15.6	15.7
On layoff .....	851	100.0	51.1	30.4	18.4	12.8	5.7
Other job losers .....	2,241	100.0	31.8	32.0	36.2	16.6	19.5
Job leavers .....	983	100.0	52.6	30.2	17.2	8.8	8.4
Reentrants .....	1,809	100.0	53.1	27.9	19.1	9.1	9.9
New entrants .....	816	100.0	56.2	28.1	15.8	8.3	7.4
Men, 20 years and over .....	2,987	100.0	37.4	31.0	31.6	14.6	17.0
Job losers .....	1,939	100.0	34.0	31.3	34.7	16.2	18.5
On layoff .....	544	100.0	46.9	30.8	20.3	14.2	6.0
Other job losers .....	1,395	100.0	28.1	31.5	40.4	17.0	23.3
Job leavers .....	416	100.0	46.0	31.2	22.7	10.1	12.6
Reentrants .....	534	100.0	43.1	29.7	27.2	12.3	14.9
New entrants .....	98	100.0	37.2	31.1	31.6	12.7	19.0
Women, 20 years and over .....	2,487	100.0	48.9	29.4	21.7	11.5	10.3
Job losers .....	946	100.0	39.1	32.3	28.6	15.9	12.7
On layoff .....	258	100.0	52.6	30.3	17.1	11.3	5.8
Other job losers .....	688	100.0	34.0	33.0	33.0	17.7	15.3
Job leavers .....	408	100.0	54.0	29.9	16.1	9.4	6.8
Reentrants .....	965	100.0	55.5	27.0	17.5	8.6	8.9
New entrants .....	168	100.0	54.2	25.5	20.3	7.8	12.5
Both sexes, 16 to 19 years .....	1,226	100.0	61.3	28.5	10.2	6.6	3.6
Job losers .....	207	100.0	58.0	30.9	11.1	7.7	3.4
On layoff .....	49	100.0	68.3	26.7	5.0	4.3	.7
Other job losers .....	158	100.0	54.7	32.2	13.0	8.8	4.2
Job leavers .....	159	100.0	66.5	28.2	5.3	3.7	1.6
Reentrants .....	310	100.0	62.8	27.4	9.8	5.4	4.4
New entrants .....	550	100.0	60.1	28.3	11.5	7.7	3.8

14. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	1987	1988	1987	1988	1987	1988	1987	1988
	Total, 16 years and over .....	7,425	6,701	100.0	100.0	5,979	5,357	100.0
Less than 5 weeks .....	3,246	3,084	43.7	46.0	2,362	2,225	39.5	41.5
5 to 14 weeks .....	2,196	2,007	29.6	30.0	1,813	1,662	30.3	31.0
5 to 10 weeks .....	1,606	1,485	21.6	22.2	1,308	1,214	21.9	22.7
11 to 14 weeks .....	589	521	7.9	7.8	506	448	8.5	8.4
15 weeks and over .....	1,983	1,610	26.7	24.0	1,804	1,470	30.2	27.4
15 to 26 weeks .....	943	801	12.7	12.0	837	722	14.0	13.5
27 weeks and over .....	1,040	809	14.0	12.1	967	749	16.2	14.0
27 to 51 weeks .....	438	312	5.9	4.7	406	291	6.8	5.4
52 weeks and over .....	602	496	8.1	7.4	561	458	9.4	8.5
Average (mean) duration, in weeks .....	14.5	13.5	-	-	16.1	15.0	-	-
Median duration, in weeks .....	6.5	5.9	-	-	7.6	7.0	-	-

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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	
								1987	1988	1987	1988
	1988							1987	1988	1987	1988
Total, 16 years and over .....	6,701	3,084	2,007	801	809	13.5	5.9	43.7	46.0	26.7	24.0
16 to 19 years .....	1,226	751	350	81	44	7.0	4.1	59.1	61.3	12.0	10.2
20 to 24 years .....	1,261	666	359	134	102	10.5	4.7	48.6	52.8	20.9	18.7
25 to 34 years .....	1,929	832	604	247	246	13.9	6.5	40.6	43.1	28.6	25.6
35 to 44 years .....	1,166	441	369	164	192	16.9	7.9	36.6	37.9	33.9	30.5
45 to 54 years .....	657	229	199	108	121	18.7	9.0	34.3	34.9	38.7	34.9
55 to 64 years .....	375	127	101	59	89	21.9	10.0	31.6	33.8	40.9	39.2
65 years and over .....	87	38	26	9	14	18.0	6.9	41.0	43.1	33.3	27.1
Men, 16 years and over .....	3,655	1,507	1,125	486	536	15.6	7.0	39.4	41.2	30.9	28.0
16 to 19 years .....	667	391	199	51	27	7.5	4.3	56.4	58.5	13.5	11.7
20 to 24 years .....	676	327	205	83	61	11.5	5.4	44.0	48.3	24.3	21.4
25 to 34 years .....	1,040	396	333	146	165	16.1	7.7	37.0	38.1	32.3	29.9
35 to 44 years .....	617	197	202	96	120	19.7	9.5	30.9	32.0	40.0	35.2
45 to 54 years .....	366	105	106	66	88	22.8	11.0	28.8	28.8	44.8	42.1
55 to 64 years .....	240	71	66	39	65	24.6	11.4	27.3	29.7	46.0	43.0
65 years and over .....	49	20	15	5	10	20.3	7.9	39.8	40.4	35.3	29.6
Women, 16 years and over .....	3,046	1,577	882	315	272	11.0	4.8	49.1	51.8	21.5	19.3
16 to 19 years .....	558	360	151	30	17	6.5	3.9	62.4	64.5	10.1	8.4
20 to 24 years .....	585	339	154	51	41	9.4	4.3	53.8	58.0	16.9	15.6
25 to 34 years .....	889	436	271	101	81	11.4	5.2	44.8	49.1	24.1	20.4
35 to 44 years .....	550	244	166	68	72	13.8	6.3	43.3	44.4	26.7	25.3
45 to 54 years .....	291	124	92	42	33	13.5	6.8	42.0	42.6	30.0	25.7
55 to 64 years .....	136	56	36	20	24	17.2	7.6	38.8	41.2	32.4	32.6
65 years and over .....	38	18	11	4	5	15.0	5.8	( <sup>1</sup> )	46.7	( <sup>1</sup> )	23.8
White, 16 years and over .....	4,944	2,332	1,468	588	555	12.9	5.6	44.9	47.2	25.7	23.1
Men .....	2,766	1,166	841	369	390	15.2	6.8	40.4	42.1	30.0	27.4
Women .....	2,177	1,167	627	219	165	10.0	4.7	50.8	53.6	19.9	17.6
Black, 16 years and over .....	1,547	656	476	187	227	15.4	6.9	39.8	42.4	29.9	26.8
Men .....	771	296	245	101	129	16.9	7.9	35.0	38.3	34.4	29.9
Women .....	776	361	232	86	97	14.0	5.9	44.5	46.5	25.7	23.6
Men, 16 years and over:											
Married, spouse present .....	1,360	455	429	216	260	18.9	9.1	32.8	33.4	38.2	35.0
Widowed, divorced, or separated .....	471	176	139	61	95	19.5	8.3	32.0	37.4	38.1	33.0
Single (never married) .....	1,824	876	557	210	182	12.1	5.5	46.6	48.0	23.2	21.4
Women, 16 years and over:											
Married, spouse present .....	1,166	594	341	129	103	10.8	4.9	48.3	51.0	21.4	19.8
Widowed, divorced, or separated .....	665	301	202	84	78	13.4	6.2	41.4	45.2	29.2	24.4
Single (never married) .....	1,215	682	339	102	91	10.0	4.5	54.1	56.2	17.4	16.0

<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	
								1987	1988	1987	1988
<b>OCCUPATION</b>											
Managerial and professional specialty .....	577	233	180	91	73	14.4	7.4	38.3	40.4	31.1	28.4
Technical, sales, and administrative support .....	1,479	690	451	176	162	12.8	5.8	45.1	46.7	25.3	22.9
Service occupations .....	1,136	579	324	107	125	12.2	4.9	47.5	51.0	23.3	20.5
Precision production, craft, and repair .....	773	315	243	107	108	15.2	7.1	39.2	40.7	30.4	27.8
Operators, fabricators, and laborers .....	1,620	672	487	215	247	15.7	7.0	38.9	41.4	31.6	28.5
Farming, forestry, and fishing .....	260	118	79	34	29	13.3	6.1	46.3	45.5	24.4	24.1
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	192	90	63	23	16	11.0	5.7	48.8	47.0	22.1	20.2
Construction .....	690	301	220	91	78	13.2	6.5	39.9	43.7	28.0	24.4
Manufacturing .....	1,163	456	346	167	194	16.8	7.7	36.9	39.2	34.3	31.0
Durable goods .....	655	234	194	100	128	18.7	8.9	34.4	35.7	36.3	34.8
Nondurable goods .....	508	222	153	68	66	14.2	6.4	40.4	43.7	31.6	26.2
Transportation and public utilities .....	284	111	87	40	46	16.1	7.7	39.1	39.0	30.7	30.2
Wholesale and retail trade .....	1,441	709	437	141	154	12.2	5.2	45.7	49.2	24.3	20.5
Finance and service industries .....	1,705	789	511	213	191	13.1	5.9	45.4	46.3	24.9	23.8
Public administration .....	181	74	52	27	28	16.0	7.7	37.0	40.8	35.1	30.4
No previous work experience .....	818	460	229	68	61	10.2	4.4	53.6	56.2	17.8	15.7

<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	1988								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	6,701	5,711	21.1	7.3	74.8	34.9	18.0	5.0	1.61
16 to 19 years .....	1,226	1,155	11.6	3.4	80.9	23.6	15.2	3.5	1.38
20 to 24 years .....	1,261	1,104	21.8	7.5	75.2	35.6	18.2	4.0	1.62
25 to 34 years .....	1,929	1,617	24.1	7.5	73.4	38.7	18.4	5.1	1.67
35 to 44 years .....	1,166	952	25.5	9.9	72.6	40.0	19.3	5.7	1.73
45 to 54 years .....	657	515	24.7	10.1	72.0	36.3	19.0	8.0	1.70
55 to 64 years .....	375	296	20.9	7.8	67.6	37.8	20.3	6.8	1.61
65 years and over .....	87	73	15.1	4.1	69.9	28.8	20.5	6.8	1.45
Men, 16 years and over .....	3,655	3,004	22.9	7.2	75.6	32.9	20.3	5.6	1.64
16 to 19 years .....	667	621	12.4	3.1	81.6	20.6	17.1	2.9	1.38
20 to 24 years .....	676	573	23.0	7.9	77.0	33.7	21.5	3.7	1.67
25 to 34 years .....	1,040	823	26.2	7.7	74.8	36.3	21.1	5.3	1.72
35 to 44 years .....	617	478	29.7	10.3	73.6	38.7	20.9	7.5	1.81
45 to 54 years .....	366	282	25.5	8.5	71.3	34.8	22.3	10.3	1.73
55 to 64 years .....	240	185	23.2	8.1	67.0	40.0	20.0	8.6	1.67
65 years and over .....	49	41	14.6	4.9	73.2	24.4	19.5	7.3	1.44
Women, 16 years and over .....	3,046	2,708	19.1	7.3	73.5	37.1	15.5	4.4	1.57
16 to 19 years .....	558	533	10.7	3.8	80.1	27.2	12.9	4.1	1.39
20 to 24 years .....	585	530	20.6	7.2	73.4	37.7	14.7	4.3	1.58
25 to 34 years .....	889	794	21.9	7.3	71.9	41.1	15.5	4.8	1.62
35 to 44 years .....	550	474	21.3	9.5	71.5	41.4	17.7	3.8	1.65
45 to 54 years .....	291	234	23.1	12.0	72.2	38.5	15.4	5.1	1.66
55 to 64 years .....	136	111	16.2	7.2	68.5	34.2	20.7	4.5	1.51
65 years and over .....	38	32	( <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 .....	4,944	4,122	20.4	7.6	74.5	36.8	17.9	5.1	1.62
Men .....	2,766	2,220	22.5	7.4	75.5	34.6	20.1	5.9	1.66
Women .....	2,177	1,902	18.0	7.7	73.4	39.3	15.4	4.3	1.58
Black, 16 years and over .....	1,547	1,409	23.0	6.1	75.7	29.2	18.2	4.5	1.57
Men .....	771	686	24.1	5.8	77.1	27.3	20.4	4.2	1.59
Women .....	776	723	22.0	6.4	74.3	31.1	16.0	4.7	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	1988								
	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 .....	6,701	5,711	21.1	7.3	74.6	34.9	18.0	5.0	1.61
Job losers <sup>1</sup> .....	3,092	2,233	27.0	7.8	75.9	37.0	20.4	5.4	1.74
Job leavers .....	983	985	21.1	9.3	74.6	41.3	16.5	3.9	1.67
Reentrants .....	1,809	1,687	17.4	7.0	71.0	34.3	17.0	6.0	1.53
New entrants .....	816	806	12.7	3.7	78.8	22.5	15.6	3.5	1.37
Men, 16 years and over .....	3,655	3,004	22.9	7.2	75.6	32.9	20.3	5.6	1.64
Job losers <sup>1</sup> .....	2,078	1,491	27.5	7.3	76.1	35.1	21.1	6.1	1.73
Job leavers .....	503	502	22.9	8.8	76.9	38.0	18.9	3.8	1.69
Reentrants .....	697	640	18.4	7.8	70.6	31.4	20.5	7.2	1.56
New entrants .....	376	371	12.7	3.8	80.3	19.7	18.3	3.0	1.38
Women, 16 years and over .....	3,046	2,708	19.1	7.3	73.5	37.1	15.5	4.4	1.57
Job losers <sup>1</sup> .....	1,014	742	26.0	8.9	75.6	40.8	19.0	4.0	1.74
Job leavers .....	480	483	19.3	9.7	72.3	44.9	14.1	3.9	1.64
Reentrants .....	1,112	1,047	17.0	6.7	71.2	36.1	14.7	5.3	1.51
New entrants .....	440	435	12.6	3.7	77.5	24.8	13.3	3.9	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.

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

(In thousands)

Industry and age	Total		Men		Women	
	1987	1988	1987	1988	1987	1988
All industries .....	112,440	114,968	62,107	63,273	50,334	51,696
16 to 19 years .....	6,640	6,805	3,381	3,492	3,260	3,313
16 to 17 years .....	2,736	2,713	1,393	1,403	1,343	1,310
18 to 19 years .....	3,905	4,092	1,988	2,089	1,917	2,003
20 to 24 years .....	13,524	13,244	7,058	6,918	6,466	6,326
25 to 54 years .....	77,771	80,290	43,136	44,360	34,635	35,929
25 to 34 years .....	33,105	33,574	18,487	18,702	14,617	14,872
35 to 44 years .....	27,179	28,269	14,898	15,457	12,281	12,811
45 to 54 years .....	17,487	18,447	9,750	10,201	7,737	8,246
55 to 64 years .....	11,465	11,433	6,682	6,591	4,783	4,841
55 to 59 years .....	6,949	6,891	4,027	3,954	2,922	2,938
60 to 64 years .....	4,515	4,541	2,655	2,638	1,861	1,904
65 years and over .....	3,041	3,197	1,850	1,911	1,191	1,286
Agriculture .....	3,208	3,169	2,543	2,493	666	676
16 to 19 years .....	258	273	214	222	44	51
16 to 17 years .....	132	129	110	102	22	26
18 to 19 years .....	126	144	104	119	22	25
20 to 24 years 1,388 .....				1,387	432	426
25 to 34 years .....	792	786	627	624	165	162
35 to 44 years .....	566	574	423	429	143	145
45 to 54 years .....	462	453	338	334	124	119
55 to 64 years .....	458	433	359	340	99	93
55 to 59 years .....	238	237	180	184	58	54
60 to 64 years .....	220	196	179	156	41	40
65 years and over .....	295	294	255	251	39	42
Nonagricultural industries .....	109,232	111,800	59,564	60,780	49,668	51,020
16 to 19 years .....	6,382	6,532	3,167	3,270	3,216	3,262
16 to 17 years .....	2,603	2,584	1,282	1,300	1,321	1,284
18 to 19 years .....	3,779	3,948	1,884	1,970	1,895	1,978
20 to 24 years .....	13,146	12,888	6,731	6,626	6,414	6,262
25 to 54 years .....	75,952	78,477	41,749	42,973	34,203	35,504
25 to 34 years .....	32,313	32,788	17,860	18,078	14,453	14,710
35 to 44 years .....	26,613	27,695	14,475	15,029	12,138	12,666
45 to 54 years .....	17,025	17,994	9,413	9,867	7,612	8,128
55 to 64 years .....	11,007	10,999	6,323	6,251	4,683	4,748
55 to 59 years .....	6,711	6,654	3,847	3,770	2,864	2,884
60 to 64 years .....	4,295	4,345	2,476	2,481	1,819	1,864
65 years and over .....	2,746	2,903	1,595	1,660	1,152	1,244

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**20. Employed civilians by occupation, sex, and age**

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
Total .....	112,440	114,968	62,107	63,273	58,726	59,781	50,334	51,696	47,074	48,383
Managerial and professional specialty .....	27,742	29,190	15,457	16,139	15,361	16,038	12,286	13,050	12,169	12,931
Executive, administrative, and managerial .....	13,316	14,216	8,263	8,626	8,223	8,578	5,053	5,590	5,006	5,541
Officials and administrators, public administration .....	549	563	334	330	334	329	215	232	214	231
Other executive, administrative, and managerial .....	9,190	9,882	6,082	6,432	6,047	6,392	3,108	3,449	3,074	3,411
Management-related occupations .....	3,577	3,772	1,846	1,863	1,842	1,857	1,731	1,909	1,718	1,899
Professional specialty .....	14,426	14,974	7,194	7,513	7,139	7,459	7,232	7,460	7,164	7,389
Engineers .....	1,731	1,805	1,611	1,673	1,609	1,671	120	132	120	131
Mathematical and computer scientists .....	685	732	451	488	450	487	233	244	233	243
Natural scientists .....	388	395	295	300	294	300	94	95	94	95
Health diagnosing occupations .....	793	818	662	669	662	669	131	149	131	148
Health assessment and treating occupations .....	2,148	2,154	295	325	293	323	1,853	1,829	1,851	1,827
Teachers, college and university .....	661	700	415	431	414	428	245	270	241	268
Teachers, except college and university .....	3,587	3,773	945	1,021	933	1,011	2,642	2,751	2,615	2,721
Lawyers and judges .....	707	757	568	610	567	609	139	147	139	147
Other professional specialty occupations .....	3,727	3,840	1,952	1,996	1,915	1,962	1,775	1,843	1,740	1,810
Technical, sales, and administrative support .....	35,082	35,532	12,378	12,494	11,756	11,833	22,704	23,038	20,981	21,248
Technicians and related support .....	3,346	3,521	1,721	1,833	1,691	1,799	1,624	1,688	1,606	1,667
Health technologists and technicians .....	1,142	1,226	179	213	177	210	962	1,013	955	1,004
Engineering and science technicians .....	1,100	1,146	882	903	866	883	218	243	213	235
Technicians, except health, engineering, and science .....	1,104	1,149	660	716	648	706	444	433	438	427
Sales occupations .....	13,480	13,747	7,015	7,025	6,642	6,615	6,465	6,722	5,464	5,667
Supervisors and proprietors .....	3,572	3,658	2,436	2,434	2,417	2,406	1,136	1,224	1,114	1,194
Sales representatives, finance and business services .....	2,330	2,410	1,395	1,418	1,382	1,400	935	992	901	957
Sales representatives, commodities, except retail .....	1,544	1,551	1,280	1,253	1,271	1,246	264	298	258	290
Sales workers, retail and personal services .....	5,973	6,068	1,884	1,903	1,554	1,546	4,089	4,165	3,153	3,188
Sales-related occupations .....	60	59	19	17	19	16	41	42	38	39
Administrative support, including clerical .....	18,256	18,264	3,642	3,636	3,423	3,419	14,614	14,628	13,910	13,914
Supervisors .....	723	764	311	321	310	319	411	443	409	441
Computer equipment operators .....	914	869	311	295	296	282	603	574	573	544
Secretaries, stenographers, and typists .....	5,004	4,876	93	90	85	84	4,911	4,786	4,698	4,588
Financial records processing .....	2,469	2,414	225	216	219	206	2,245	2,197	2,197	2,152
Mail and message distributing .....	961	936	627	596	597	573	334	340	319	322
Other administrative support, including clerical .....	8,185	8,405	2,075	2,118	1,917	1,955	6,110	6,287	5,714	5,866
Service occupations .....	15,054	15,332	5,924	6,056	4,987	5,132	9,130	9,275	7,988	8,176
Private household .....	934	909	34	34	22	25	900	875	710	724
Protective service .....	1,907	1,944	1,637	1,664	1,591	1,615	271	279	243	250
Service, except private household and protective .....	12,213	12,479	4,253	4,358	3,374	3,492	7,960	8,121	7,036	7,202
Food service .....	5,204	5,182	1,958	1,989	1,318	1,343	3,246	3,193	2,595	2,546
Health service .....	1,873	1,977	191	212	174	198	1,682	1,765	1,602	1,688
Cleaning and building service .....	2,886	2,994	1,683	1,718	1,519	1,564	1,203	1,276	1,133	1,205
Personal service .....	2,249	2,327	421	440	363	387	1,828	1,887	1,705	1,763
Precision production, craft, and repair .....	13,568	13,664	12,416	12,474	12,106	12,159	1,153	1,190	1,125	1,155
Mechanics and repairers .....	4,445	4,454	4,295	4,307	4,196	4,207	150	147	147	144
Construction trades .....	5,011	5,098	4,915	4,991	4,754	4,834	96	107	93	102
Other precision production, craft, and repair .....	4,112	4,112	3,205	3,176	3,157	3,118	907	936	885	909
Operators, fabricators, and laborers .....	17,486	17,814	12,978	13,234	11,866	12,041	4,508	4,580	4,303	4,363
Machine operators, assemblers, and inspectors .....	7,994	8,117	4,699	4,806	4,522	4,610	3,295	3,311	3,200	3,214
Manufacturing industries .....	6,640	6,751	3,850	3,950	3,721	3,810	2,791	2,801	2,719	2,729
Durable goods .....	3,663	3,713	2,503	2,545	2,430	2,468	1,159	1,168	1,136	1,143
Nondurable goods .....	2,978	3,038	1,346	1,405	1,291	1,342	1,631	1,633	1,583	1,586
Nonmanufacturing industries .....	1,354	1,366	850	856	800	800	504	510	481	485
Transportation and material moving occupations .....	4,712	4,831	4,317	4,397	4,173	4,253	395	434	384	419
Motor vehicle operators .....	3,489	3,592	3,136	3,206	3,013	3,083	353	386	341	374
Other transportation and material moving occupations .....	1,223	1,238	1,181	1,191	1,160	1,170	43	47	42	46
Handlers, equipment cleaners, helpers, and laborers .....	4,779	4,866	3,962	4,031	3,171	3,177	817	835	720	729
Construction laborers .....	766	799	742	771	655	682	25	27	23	23
Other handlers, equipment cleaners, helpers, and laborers .....	4,013	4,068	3,220	3,259	2,516	2,496	793	808	697	706
Farming, forestry, and fishing .....	3,507	3,437	2,954	2,875	2,650	2,578	554	562	507	510
Farm operators and managers .....	1,317	1,286	1,121	1,093	1,112	1,081	196	193	194	191
Other farming, forestry, and fishing occupations .....	2,190	2,151	1,832	1,782	1,538	1,497	358	369	314	319

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	112,440	114,968	62,107	63,273	50,334	51,696
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	24.7	25.4	24.9	25.5	24.4	25.2
Executive, administrative, and managerial .....	11.8	12.4	13.3	13.6	10.0	10.8
Professional specialty .....	12.8	13.0	11.6	11.9	14.4	14.4
Technical, sales, and administrative support .....	31.2	30.9	19.9	19.7	45.1	44.6
Technicians and related support .....	3.0	3.1	2.8	2.9	3.2	3.3
Sales occupations .....	12.0	12.0	11.3	11.1	12.8	13.0
Administrative support, including clerical .....	16.2	15.9	5.9	5.7	29.0	28.3
Service occupations .....	13.4	13.3	9.5	9.6	18.1	17.9
Private household .....	.8	.8	.1	.1	1.8	1.7
Protective service .....	1.7	1.7	2.6	2.6	.5	.5
Service, except private household and protective .....	10.9	10.9	6.8	6.9	15.8	15.7
Precision production, craft, and repair .....	12.1	11.9	20.0	19.7	2.3	2.3
Operators, fabricators, and laborers .....	15.6	15.5	20.9	20.9	9.0	8.9
Machine operators, assemblers, and inspectors .....	7.1	7.1	7.6	7.6	6.5	6.4
Transportation and material moving occupations .....	4.2	4.2	7.0	6.9	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.3	4.2	6.4	6.4	1.6	1.6
Farming, forestry, and fishing .....	3.1	3.0	4.8	4.5	1.1	1.1
<b>White</b>						
Total, 16 years and over (thousands) .....	97,789	99,812	54,647	55,550	43,142	44,262
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.7	26.5	25.9	26.6	25.3	26.3
Executive, administrative, and managerial .....	12.5	13.0	14.0	14.4	10.5	11.4
Professional specialty .....	13.2	13.4	11.9	12.2	14.8	14.9
Technical, sales, and administrative support .....	31.6	31.2	20.2	19.9	46.1	45.4
Technicians and related support .....	3.0	3.0	2.8	2.9	3.2	3.2
Sales occupations .....	12.6	12.5	11.9	11.7	13.4	13.5
Administrative support, including clerical .....	16.1	15.7	5.5	5.3	29.5	28.7
Service occupations .....	12.2	12.1	8.5	8.6	16.8	16.6
Private household .....	.7	.7	.1	( <sup>1</sup> )	1.6	1.5
Protective service .....	1.6	1.6	2.5	2.5	.5	.5
Service, except private household and protective .....	9.9	9.9	6.0	6.0	14.8	14.6
Precision production, craft, and repair .....	12.5	12.3	20.6	20.3	2.3	2.3
Operators, fabricators, and laborers .....	14.7	14.7	19.7	19.8	8.2	8.2
Machine operators, assemblers, and inspectors .....	6.6	6.7	7.2	7.3	5.9	5.9
Transportation and material moving occupations .....	4.0	4.0	6.6	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.0	4.0	5.9	6.0	1.5	1.6
Farming, forestry, and fishing .....	3.3	3.2	4.9	4.7	1.2	1.2
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,309	11,658	5,661	5,824	5,648	5,834
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.1	15.4	13.1	13.3	17.2	17.5
Executive, administrative, and managerial .....	6.6	6.8	6.7	6.6	6.4	7.0
Professional specialty .....	8.6	8.6	6.4	6.8	10.8	10.5
Technical, sales, and administrative support .....	27.4	27.8	16.2	16.9	38.7	38.6
Technicians and related support .....	2.5	2.8	1.8	2.3	3.2	3.4
Sales occupations .....	7.1	7.2	5.1	5.3	9.1	9.1
Administrative support, including clerical .....	17.8	17.8	9.2	9.3	26.4	26.2
Service occupations .....	23.1	23.1	18.2	18.1	28.0	28.2
Private household .....	1.9	1.8	.1	.1	3.6	3.4
Protective service .....	2.8	2.8	4.5	4.4	1.1	1.1
Service, except private household and protective .....	18.5	18.6	13.7	13.6	23.3	23.6
Precision production, craft, and repair .....	8.8	8.8	15.5	15.5	2.0	2.2
Operators, fabricators, and laborers .....	23.5	22.9	33.3	32.7	13.7	13.1
Machine operators, assemblers, and inspectors .....	10.6	10.3	10.8	10.7	10.3	9.9
Transportation and material moving occupations .....	6.2	6.2	11.3	11.2	1.1	1.2
Handlers, equipment cleaners, helpers, and laborers .....	6.8	6.5	11.2	10.9	2.3	2.1
Farming, forestry, and fishing .....	2.0	1.9	3.6	3.5	.4	.4

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

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

(Numbers in thousands)

Occupation	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over .....	114,968	45.0	10.1	7.2
Managerial and professional specialty .....	29,190	44.7	6.1	3.7
Executive, administrative, and managerial .....	14,216	39.3	5.8	4.0
Officials and administrators, public administration .....	472	44.5	9.4	4.1
Administrators, protective service .....	56	17.8	4.4	3.1
Financial managers .....	502	42.4	4.3	4.1
Personnel and labor relations managers .....	130	49.1	5.5	3.1
Purchasing managers .....	99	24.4	5.8	2.8
Managers, marketing, advertising, and public relations .....	482	32.0	3.8	2.6
Administrators, education and related fields .....	562	48.9	9.5	1.9
Managers, medicine and health .....	163	61.3	6.3	1.8
Managers, properties and real estate .....	433	44.8	6.2	6.6
Management-related occupations .....	3,772	50.8	7.2	4.2
Accountants and auditors .....	1,329	49.6	7.5	3.7
Underwriters and other financial officers .....	741	50.7	5.4	4.8
Management analysts .....	199	33.0	4.9	2.0
Personnel, training, and labor relations specialists .....	390	58.9	9.4	4.8
Buyers, wholesale and retail trade, except farm products .....	233	50.4	3.4	5.5
Construction inspectors .....	60	5.4	7.1	3.5
Inspectors and compliance officers, except construction .....	194	26.8	12.0	8.0
Professional specialty .....	14,974	49.8	6.7	3.4
Architects .....	143	14.6	4.4	6.3
Engineers .....	1,605	7.3	3.8	2.6
Aerospace engineers .....	115	6.3	5.4	.8
Chemical engineers .....	65	12.0	2.7	2.1
Civil engineers .....	218	6.0	3.7	5.9
Electrical and electronic engineers .....	573	7.9	3.7	2.5
Industrial engineers .....	221	12.9	6.0	1.2
Mechanical engineers .....	297	3.7	2.9	2.6
Mathematical and computer scientists .....	732	33.4	7.4	3.0
Computer systems analysts and scientists .....	479	29.5	7.4	2.6
Operations and systems researchers and analysts .....	210	39.6	6.4	4.0
Natural scientists .....	395	24.1	2.5	2.8
Chemists, except biochemists .....	125	23.7	4.1	2.0
Geologists and geodesists .....	50	12.6	.8	2.0
Biological and life scientists .....	75	39.7	1.0	2.4
Health diagnosing occupations .....	618	18.2	2.8	4.0
Physicians .....	541	20.0	3.3	4.7
Dentists .....	152	9.3	1.9	3.0
Health assessment and treating occupations .....	2,154	84.9	7.8	2.9
Registered nurses .....	1,559	94.6	8.5	2.7
Pharmacists .....	168	31.9	2.7	1.1
Dietitians .....	74	86.0	18.6	4.7
Therapists .....	298	73.0	4.9	4.0
Inhalation therapists .....	85	54.0	7.8	4.6
Physical therapists .....	82	73.5	2.1	6.1
Speech therapists .....	66	90.2	3.9	-
Physicians' assistants .....	54	34.5	5.8	5.9
Teachers, college and university .....	700	38.5	4.0	3.6
Teachers, except college and university .....	3,773	72.9	8.8	3.9
Prekindergarten and kindergarten .....	393	98.2	9.2	6.3
Elementary school .....	1,424	84.8	10.2	3.9
Secondary school .....	1,187	51.2	8.1	3.7
Special education .....	246	85.2	10.6	1.0
Teachers, n.e.c. .....	524	65.2	5.5	3.7
Counselors, educational and vocational .....	206	61.8	14.9	4.8
Librarians, archivists, and curators .....	219	82.6	8.0	1.5
Librarians .....	196	85.4	7.8	1.6
Social scientists and urban planners .....	343	47.6	7.1	3.9
Economists .....	118	35.3	6.1	4.0
Psychologists .....	196	55.8	7.8	4.0
Social, recreation, and religious workers .....	1,052	48.1	13.9	4.8
Social workers .....	537	66.0	19.3	6.2
Recreation workers .....	92	64.2	12.3	5.1
Clergy .....	348	8.8	8.6	2.7
Religious workers, n.e.c. .....	75	54.9	1.2	3.6
Lawyers and judges .....	757	19.5	2.3	1.9
Lawyers .....	724	19.3	2.0	1.9

See note at end of table.

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(Numbers in thousands)

Occupation	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Writers, artists, entertainers, and athletes .....	1,855	46.7	4.3	3.6
Authors .....	82	56.0	.4	.7
Technical writers .....	58	47.4	2.6	1.6
Designers .....	510	53.3	2.1	3.6
Musicians and composers .....	151	29.6	7.7	7.2
Actors and directors .....	100	37.5	5.6	2.7
Painters, sculptors, craft-artists, and artist printmakers .....	215	51.2	3.6	4.2
Photographers .....	117	30.7	4.4	2.1
Editors and reporters .....	260	51.1	4.0	2.5
Public relations specialists .....	151	59.1	5.1	2.4
Announcers .....	52	16.1	9.2	6.2
Athletes .....	73	16.7	13.6	4.2
Technical, sales, and administrative support .....	35,532	64.8	9.1	5.8
Technicians and related support .....	3,521	47.9	9.4	4.3
Health technologists and technicians .....	1,226	82.6	14.2	4.5
Clinical laboratory technologists and technicians .....	272	76.0	14.2	4.5
Dental hygienists .....	78	97.6	3.2	1.9
Health record technologists & technicians .....	59	86.7	13.4	10.0
Radiologic technicians .....	133	76.0	4.1	5.7
Licensed practical nurses .....	423	96.0	19.1	3.8
Engineering and related technologists and technicians .....	930	18.9	6.1	4.7
Electrical and electronic technicians .....	322	14.4	6.8	6.6
Drafting occupations .....	290	16.3	5.5	4.3
Surveying and mapping technicians .....	78	12.9	3.3	2.8
Science technicians .....	216	31.1	8.7	3.9
Biological technicians .....	55	42.5	8.2	5.1
Chemical technicians .....	81	26.8	10.0	3.1
Technicians, except health, engineering, and science .....	1,149	37.7	6.9	3.9
Airplane pilots and navigators .....	88	3.1	1.4	1.5
Computer programmers .....	570	32.2	6.9	3.8
Legal assistants .....	203	76.3	8.2	6.0
Sales occupations .....	13,747	48.9	6.1	5.3
Supervisors and proprietors .....	3,658	33.5	4.3	4.8
Sales representatives, finance and business services .....	2,410	41.2	4.0	3.4
Insurance sales .....	545	29.7	4.5	4.3
Real estate sales .....	792	48.5	3.2	2.6
Securities and financial services sales .....	319	27.5	2.5	2.3
Advertising and related sales .....	168	47.8	5.4	3.3
Sales occupations, other business services .....	585	47.4	4.9	4.2
Sales representatives, commodities, except retail .....	1,551	19.2	3.1	3.7
Sales workers, retail and personal services .....	6,068	68.6	8.9	6.8
Sales workers, motor vehicles and boats .....	294	8.0	5.2	5.3
Sales workers, apparel .....	462	83.2	9.8	8.6
Sales workers, shoes .....	112	60.3	10.9	11.7
Sales workers, furniture and home furnishings .....	166	49.6	3.0	4.8
Sales workers, radio, television, hi-fi, and appliances .....	180	36.4	4.4	6.1
Sales workers, hardware and building supplies .....	198	21.4	4.0	3.4
Sales workers, parts .....	169	9.0	7.1	6.0
Sales workers, other commodities .....	1,537	73.6	6.6	6.5
Sales counter clerks .....	189	73.9	6.5	8.6
Cashiers .....	2,337	82.2	12.5	7.4
Street and door-to-door sales workers .....	318	79.2	6.0	5.6
News vendors .....	108	37.4	7.7	3.4
Sales-related occupations .....	59	71.2	1.3	2.1
Administrative support, including clerical .....	18,264	80.1	11.3	6.5
Supervisors .....	764	58.0	13.5	5.9
General office .....	458	67.7	13.3	6.4
Financial records processing .....	91	70.3	7.5	1.6
Supervisors, distribution, scheduling, and adjusting clerks .....	165	29.5	19.4	7.6
Computer equipment operators .....	869	66.1	14.4	5.9
Computer operators .....	865	66.0	14.3	6.0
Secretaries, stenographers, and typists .....	4,876	98.2	8.5	5.3
Secretaries .....	4,030	99.1	7.1	4.8
Stenographers .....	48	79.9	3.2	2.2
Typists .....	798	94.5	16.0	7.8
Information clerks .....	1,479	88.5	9.1	8.5
Interviewers .....	163	85.6	11.8	5.5
Hotel clerks .....	103	64.8	6.7	10.2

See note at end of table.

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

(Numbers in thousands)

Occupation	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Transportation ticket and reservation agents .....	114	58.7	15.3	11.3
Receptionists .....	848	97.1	7.4	8.7
Records processing occupations, except financial .....	827	82.1	15.6	6.9
Order clerks .....	197	77.3	15.7	5.2
Personnel clerks, except payroll and timekeeping .....	65	89.7	17.7	6.2
Library clerks .....	143	78.8	11.2	6.1
File clerks .....	271	83.3	18.8	9.8
Records clerks .....	132	86.5	12.5	5.3
Financial records processing .....	2,414	91.0	6.2	5.1
Bookkeepers, accounting, and auditing clerks .....	1,970	92.1	5.1	5.0
Payroll and timekeeping clerks .....	173	90.0	8.8	4.6
Billing clerks .....	157	90.2	14.5	7.0
Cost and rate clerks .....	75	72.7	9.3	7.3
Duplicating, mail and other office machine operators .....	68	62.0	16.0	11.6
Communications equipment operators .....	218	89.4	19.3	4.5
Telephone operators .....	210	89.8	19.2	4.2
Mail and message distributing occupations .....	936	36.3	22.0	8.6
Postal clerks, except mail carriers .....	313	47.6	32.1	6.2
Mail carriers, postal service .....	320	22.0	13.4	10.4
Mail clerks, except postal service .....	163	50.6	23.8	10.0
Messengers .....	141	27.6	17.3	8.2
Material recording, scheduling, and distributing clerks .....	1,681	38.4	14.0	8.5
Dispatchers .....	171	45.9	7.3	5.2
Production coordinators .....	192	46.6	9.3	6.2
Traffic, shipping, and receiving clerks .....	521	27.5	15.9	10.5
Stock and inventory clerks .....	559	38.7	16.2	9.3
Weighers, measurers, and checkers .....	72	46.0	15.6	5.5
Expeditors .....	95	62.8	10.2	7.9
Adjusters and investigators .....	949	75.0	11.3	6.0
Insurance adjusters, examiners, and investigators .....	287	72.2	10.1	4.8
Investigators and adjusters, except insurance .....	466	76.9	11.7	6.3
Eligibility clerks, social welfare .....	65	90.3	15.3	8.6
Bill and account collectors .....	130	66.6	10.5	5.9
Miscellaneous administrative support .....	3,183	85.0	13.1	7.0
General office clerks .....	833	81.3	11.3	6.8
Bank tellers .....	478	91.0	8.8	6.6
Data entry keyers .....	362	88.2	19.8	7.6
Statistical clerks .....	85	73.4	8.8	8.1
Teachers' aides .....	423	95.9	14.3	9.6
Service occupations .....	15,332	60.5	17.6	10.2
Private household .....	909	96.3	22.5	16.7
Child care workers .....	378	97.3	8.8	9.6
Cleaners and servants .....	476	95.6	32.0	22.1
Protective service .....	1,944	14.4	16.7	6.3
Supervisors, protective service .....	174	7.4	15.3	3.7
Supervisors, police and detectives .....	93	9.0	15.4	3.4
Firefighting and fire prevention .....	218	2.9	8.3	5.8
Firefighting occupations .....	195	2.1	8.6	6.4
Police and detectives .....	755	13.4	15.8	5.5
Police and detectives, public service .....	427	10.1	14.0	5.1
Sheriffs, bailiffs, and other law enforcement officers .....	111	17.4	9.2	5.4
Correctional institution officers .....	217	17.8	22.8	6.4
Guards .....	796	20.0	20.1	7.7
Guards and police, except public service .....	675	13.5	21.7	8.4
Service occupations, except private household and protective service .....	12,479	65.1	17.4	10.3
Food preparation and service occupations .....	5,182	61.6	12.4	10.2
Supervisors .....	325	68.3	10.7	7.6
Bartenders .....	324	49.6	2.2	5.8
Waiters and waitresses .....	1,363	82.6	3.9	5.7
Cooks, except short order .....	1,634	49.8	18.1	11.7
Short-order cooks .....	95	37.5	24.7	8.4
Food counter, fountain, and related occupations .....	325	78.3	12.5	8.0
Kitchen workers, food preparation .....	132	73.3	16.9	10.5
Waiters' and waitresses' assistants .....	339	39.9	15.3	20.0
Miscellaneous food preparation .....	645	53.9	17.7	15.4
Health service occupations .....	1,977	89.3	28.2	6.3
Dental assistants .....	165	98.7	6.8	3.9
Health aides, except nursing .....	407	83.7	17.9	7.5

See note at end of table.

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(Numbers in thousands)

Occupation	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nursing aides, orderlies, and attendants .....	1,404	89.8	33.7	6.2
Cleaning and building service occupations .....	2,994	42.6	23.0	15.2
Supervisors .....	159	37.6	26.8	12.5
Maids and housemen .....	644	85.0	29.0	18.2
Janitors and cleaners .....	2,133	31.2	21.1	14.6
Personal service occupations .....	2,327	81.1	12.0	7.8
Barbers .....	94	18.3	13.3	9.9
Hairdressers and cosmetologists .....	769	89.5	8.1	7.8
Attendants, amusement and recreation facilities .....	130	40.3	6.7	4.5
Public transportation attendants .....	77	79.1	15.9	2.8
Welfare service aides .....	92	94.1	24.0	10.0
Child care workers .....	653	96.0	13.3	7.1
Precision production, craft, and repair .....	13,664	6.7	7.5	8.2
Mechanics and repairers .....	4,454	3.3	7.1	7.8
Supervisors .....	256	7.1	5.1	3.8
Mechanics and repairers, except supervisors .....	4,198	3.1	7.2	7.8
Vehicle and mobile equipment mechanics and repairers .....	1,811	.9	7.1	9.2
Automobile mechanics .....	679	.7	7.4	10.5
Bus, truck, and stationery engine mechanics .....	325	.5	7.2	7.3
Aircraft engine mechanics .....	131	3.7	12.7	6.1
Small engine repairers .....	70	.6	2.0	2.9
Automobile body and related repairers .....	194	1.0	4.8	13.3
Heavy equipment mechanics .....	159	.5	5.8	7.7
Industrial machinery repairers .....	547	2.7	8.3	7.9
Electrical and electronic equipment repairers .....	677	8.0	7.1	4.7
Electronic repairers, communications, and industrial equipment .....	165	5.0	7.3	5.3
Data processing equipment repairers .....	140	6.8	8.7	2.6
Telephone line installers and repairers .....	61	10.0	6.7	2.4
Telephone installers and repairers .....	202	12.1	7.8	4.5
Heating, air conditioning, and refrigeration mechanics .....	262	.6	3.7	5.5
Miscellaneous mechanics and repairers .....	874	4.5	8.2	7.8
Office machine repairers .....	60	6.4	7.1	8.8
Millwrights .....	96	2.1	7.6	3.8
Construction trades .....	5,098	2.1	7.1	8.2
Supervisors .....	617	2.2	4.2	5.4
Construction trades, except supervisors .....	4,481	2.1	7.5	8.6
Brickmasons and stonemasons .....	202	.5	16.3	9.3
Tile setters, hard and soft .....	53	1.2	1.8	16.0
Carpet installers .....	108	2.3	6.2	9.2
Carpenters .....	1,427	1.5	5.2	8.0
Drywall installers .....	149	2.1	6.3	11.9
Electricians .....	701	1.4	4.3	5.9
Electrical power installers and repairers .....	101	.4	9.9	2.3
Painters, construction and maintenance .....	525	5.8	7.6	11.8
Plumbers, pipefitters, and steamfitters .....	494	.4	7.9	6.7
Concrete and terrazzo finishers .....	85	.2	26.8	20.1
Insulation workers .....	54	4.9	15.5	15.3
Roofers .....	158	1.2	10.8	9.4
Structural metal workers .....	48	.4	7.3	7.9
Extractive occupations .....	144	2.1	5.4	7.5
Precision production occupations .....	3,988	23.5	8.8	8.8
Supervisors .....	1,361	15.4	8.5	8.8
Precision metalworking .....	896	6.3	6.0	6.8
Tool and die makers .....	145	2.4	2.9	3.7
Machinists .....	497	4.8	6.3	8.5
Sheet-metal workers .....	126	5.7	8.0	4.4
Precision woodworking occupations .....	106	11.8	4.6	9.3
Cabinet makers and bench carpenters .....	66	2.6	2.8	10.2
Precision textile, apparel, and furnishings machine workers .....	296	58.1	8.0	17.8
Dressmakers .....	126	94.4	6.8	10.4
Upholsterers .....	84	22.0	3.3	27.9
Precision workers, assorted materials .....	529	56.7	10.0	10.9
Optical goods workers .....	60	61.4	2.6	4.0
Dental laboratory and medical appliance technicians .....	49	32.9	6.6	5.1
Electrical and electronic equipment assemblers .....	305	70.0	12.1	14.1
Precision food production occupations .....	418	32.4	14.3	12.4
Butchers and meat cutters .....	258	21.2	17.0	12.2
Bakers .....	128	47.8	10.0	11.6

See note at end of table.



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

(Numbers in thousands)

Occupation	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Precision inspectors, testers, and related workers .....	126	28.1	8.8	7.4
Inspectors, testers, and graders .....	113	25.6	9.8	6.9
Plant and system operators .....	236	4.5	7.9	5.8
Water and sewage treatment plant operators .....	50	2.9	6.9	3.0
Stationary engineers .....	103	3.0	8.2	8.9
Operators, fabricators, and laborers .....	17,814	25.7	15.0	11.1
Machine operators, assemblers, and inspectors .....	8,117	40.8	14.8	13.3
Machine operators and tenders, except precision .....	5,362	41.9	15.9	14.0
Metalworking and plastic working machine operators .....	465	17.0	10.9	10.1
Lathe and turning machine operators .....	63	5.8	6.9	8.1
Punching and stamping press machine operators .....	123	29.8	17.6	8.3
Grinding, abrading, buffing, and polishing machine operators .....	141	11.9	9.5	15.1
Metal and plastic processing machine operators .....	170	25.6	16.3	10.4
Molding and casting machine operators .....	102	31.2	19.1	6.3
Woodworking machine operators .....	159	14.4	15.1	4.6
Sawing machine operators .....	105	12.5	16.6	5.1
Printing machine operators .....	505	26.4	7.7	8.2
Printing machine operators .....	339	13.8	9.1	10.1
Photoengravers and lithographers .....	55	23.3	4.9	5.7
Typesetters and compositors .....	67	73.9	3.5	1.8
Textile, apparel, and furnishings machine operators .....	1,355	78.0	21.0	19.2
Winding and twisting machine operators .....	76	76.7	37.4	4.1
Textile sewing machine operators .....	749	90.1	18.0	22.4
Pressing machine operators .....	146	65.7	28.1	28.3
Laundering and dry cleaning machine operators .....	222	62.3	19.6	15.5
Machine operators, assorted materials .....	2,680	33.5	15.6	13.9
Packaging and filling machine operators .....	414	63.6	18.8	21.6
Mixing and blending machine operators .....	102	10.6	22.7	7.7
Separating, filtering, and clarifying machine operators .....	56	3.6	14.1	4.6
Painting and paint spraying machine operators .....	200	14.0	12.6	19.4
Furnace, kiln, and oven operators, except food .....	102	6.4	12.0	5.5
Slicing and cutting machine operators .....	215	28.6	12.2	18.9
Photographic process machine operators .....	98	55.1	11.0	8.5
Fabricators, assemblers, and hand working occupations .....	1,906	33.0	12.0	12.0
Welders and cutters .....	555	4.9	8.1	9.6
Solderers and brazers .....	50	62.0	9.3	22.4
Assemblers .....	11,411	44.2	14.7	13.0
Production inspectors, testers, samplers, and weighers .....	849	51.6	13.9	12.1
Production inspectors, checkers, and examiners .....	683	52.7	13.6	10.6
Production testers .....	63	33.3	11.3	8.1
Graders and sorters, except agricultural .....	96	56.3	18.3	25.2
Transportation and material moving occupations .....	4,831	9.0	14.9	7.1
Motor vehicle operators .....	3,592	10.8	14.9	7.1
Supervisors .....	64	15.0	15.3	3.2
Truck drivers, heavy .....	1,826	2.3	13.8	6.0
Truck drivers, light .....	782	9.0	12.3	9.0
Drivers-sales workers .....	201	7.1	5.5	6.8
Bus drivers .....	450	48.5	23.2	6.0
Taxi-cab drivers and chauffeurs .....	218	12.5	23.8	11.0
Transportation occupations, except motor vehicles .....	195	2.1	10.8	2.1
Rail transportation occupations .....	137	2.2	12.6	2.5
Locomotive operating occupations .....	51	.5	16.7	1.5
Water transportation occupations .....	58	1.9	6.4	1.2
Material moving equipment operators .....	1,043	4.1	15.6	7.9
Operating engineers .....	210	1.3	6.9	6.0
Crane and tower operators .....	88	1.7	18.3	5.6
Excavating and loading machine operators .....	108	.7	7.7	4.9
Grader, dozer, and scraper operators .....	92	.6	9.4	4.9
Industrial truck and tractor equipment operators .....	431	5.7	22.6	10.7
Handlers, equipment cleaners, helpers, and laborers .....	4,866	17.2	15.5	11.3
Helpers, construction and extractive occupations .....	156	4.0	13.8	12.5
Helpers, construction trades .....	141	4.0	12.8	13.5
Construction laborers .....	799	3.4	15.1	15.2
Production helpers .....	64	24.3	16.1	16.4
Freight, stock, and material handlers .....	1,756	17.5	15.8	8.7
Stock handlers and baggers .....	891	22.8	10.7	7.4
Machine feeders and offbearers .....	110	33.7	23.9	6.1
Garage and service station related occupations .....	246	6.2	10.2	8.4

See note at end of table.

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

(Numbers in thousands)

Occupation	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Vehicle washers and equipment cleaners .....	253	14.1	20.3	15.0
Hand packers and packagers .....	298	65.3	14.4	13.6
Laborers, except construction .....	1,248	18.6	15.4	11.5
<b>Farming, forestry, and fishing .....</b>	<b>3,437</b>	<b>16.3</b>	<b>6.6</b>	<b>13.0</b>
Farm operators and managers .....	1,286	15.0	1.1	1.6
Farmers .....	1,154	15.2	.9	1.4
Farm managers .....	133	13.4	3.0	3.5
Other agricultural and related occupations .....	1,978	18.2	10.0	21.3
Farm occupations, except managerial .....	1,020	23.5	8.6	23.3
Farm workers .....	949	23.3	8.6	23.0
Related agricultural occupations .....	958	12.5	11.5	19.2
Supervisors .....	76	5.0	8.7	13.9
Groundskeepers and gardeners, except farm .....	765	5.2	12.2	20.7
Animal caretakers, except farm .....	101	63.4	8.3	6.3
Forestry and logging occupations .....	117	4.2	11.2	4.2
Timber cutting and logging .....	84	.5	12.1	1.6
Fishers, hunters, and trappers .....	56	7.3	3.1	3.0

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

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

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

(In thousands)

Age and sex	1988								
	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 .....	103,021	1,153	17,114	84,754	8,519	260	1,621	1,398	150
16 to 19 years .....	6,460	206	342	5,912	59	13	214	28	30
16 to 17 years .....	2,552	139	101	2,312	26	6	96	16	17
18 to 19 years .....	3,908	67	241	3,601	33	7	119	12	13
20 to 24 years .....	12,565	122	1,084	11,359	308	14	286	59	11
25 to 34 years .....	30,754	199	4,314	26,241	1,975	59	493	268	25
35 to 44 years .....	25,127	185	5,327	19,615	2,499	68	270	280	24
45 to 54 years .....	16,136	157	3,583	12,396	1,798	61	169	260	23
55 to 64 years .....	9,657	162	2,058	7,437	1,312	31	128	281	24
55 to 59 years .....	5,879	89	1,291	4,499	757	18	68	155	15
60 to 64 years .....	3,778	73	767	2,938	555	12	60	127	9
65 years and over .....	2,322	122	405	1,795	568	14	60	221	13
Men, 16 years and over .....	55,177	157	8,074	46,946	5,564	39	1,268	1,174	50
16 to 19 years .....	3,229	49	160	3,020	31	10	174	25	23
16 to 17 years .....	1,282	35	48	1,200	13	5	75	14	13
18 to 19 years .....	1,947	14	112	1,821	18	5	99	11	10
20 to 24 years .....	6,414	19	475	5,921	203	9	233	52	8
25 to 34 years .....	16,824	30	2,040	14,754	1,248	6	386	231	7
35 to 44 years .....	13,417	22	2,474	10,921	1,608	3	200	226	3
45 to 54 years .....	8,675	14	1,707	6,954	1,188	4	123	209	2
55 to 64 years .....	5,361	12	1,021	4,328	888	2	102	235	3
55 to 59 years .....	3,263	7	631	2,625	505	1	55	127	2
60 to 64 years .....	2,097	5	390	1,703	383	1	47	108	1
65 years and over .....	1,257	11	199	1,047	397	6	50	196	6
Women, 16 years and over .....	47,844	996	9,039	37,809	2,955	220	353	224	99
16 to 19 years .....	3,231	157	182	2,892	28	3	41	2	8
16 to 17 years .....	1,270	104	54	1,112	12	2	21	1	4
18 to 19 years .....	1,961	53	129	1,780	15	2	20	1	3
20 to 24 years .....	6,151	103	610	5,438	106	6	53	7	3
25 to 34 years .....	13,930	169	2,274	11,487	727	53	107	37	18
35 to 44 years .....	11,710	163	2,853	8,694	891	65	70	54	21
45 to 54 years .....	7,461	144	1,876	5,441	610	57	46	51	21
55 to 64 years .....	4,296	150	1,037	3,109	423	28	26	47	21
55 to 59 years .....	2,616	82	660	1,874	252	17	13	28	13
60 to 64 years .....	1,681	68	377	1,235	172	12	13	19	8
65 years and over .....	1,065	111	207	747	171	8	10	25	7

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

(In thousands)

Industry and sex	1988					
	Total employed	Wage and salary workers			Self-employed workers	Unpaid family workers
		Total	Government	Private industries		
<b>TOTAL</b>						
Mining .....	753	725	1	724	28	1
Construction .....	7,603	6,148	508	5,640	1,427	29
Manufacturing .....	21,320	20,910	140	20,770	394	16
Durable goods .....	12,642	12,407	108	12,299	228	7
Nondurable goods .....	8,678	8,503	32	8,471	166	9
Transportation and public utilities .....	8,064	7,709	1,567	6,142	345	11
Wholesale and retail trade .....	23,663	21,737	105	21,632	1,823	103
Wholesale trade .....	4,578	4,219	4	4,215	336	23
Retail trade .....	19,085	17,518	101	17,417	1,487	80
Finance, insurance, and real estate .....	7,921	7,284	190	7,094	624	12
Services .....	37,043	33,077	9,171	23,906	3,878	88
Private households .....	1,163	1,153	-	1,153	10	
Other service industries .....	35,880	31,924	9,171	22,753	3,868	88
Business and repair .....	7,013	5,630	85	5,545	1,347	35
Personal, except private households .....	3,564	2,570	17	2,553	979	15
Entertainment and recreation .....	1,421	1,232	190	1,042	186	3
Professional .....	23,725	22,381	8,824	13,557	1,311	33
Hospitals .....	4,520	4,516	955	3,562	4	
Health services, except hospitals .....	4,261	3,890	426	3,464	358	13
Educational .....	8,586	8,485	6,754	1,731	101	1
Social services .....	2,842	2,597	571	2,026	239	6
Other .....	3,515	2,893	119	2,775	609	13
Forestry and fisheries .....	157	110	54	56	45	2
Public administration .....	5,432	5,432	5,432			
<b>Men</b>						
Mining .....	626	602	1	601	24	
Construction .....	6,899	5,541	455	5,086	1,354	4
Manufacturing .....	14,301	14,010	104	13,906	289	3
Durable goods .....	9,240	9,052	85	8,967	186	2
Nondurable goods .....	5,062	4,958	19	4,939	102	1
Transportation and public utilities .....	5,856	5,555	1,153	4,402	299	2
Wholesale and retail trade .....	12,437	11,328	43	11,285	1,092	17
Wholesale trade .....	3,294	3,008	3	3,005	284	2
Retail trade .....	9,143	8,320	40	8,280	808	15
Finance, insurance, and real estate .....	3,229	2,800	99	2,701	429	1
Services .....	14,318	12,228	3,107	9,121	2,077	13
Private households .....	163	157	-	157	6	
Other service industries .....	14,155	12,071	3,107	8,964	2,071	13
Business and repair .....	4,290	3,375	51	3,325	909	6
Personal, except private households .....	1,147	915	7	909	230	2
Entertainment and recreation .....	855	730	114	616	124	
Professional .....	7,740	6,968	2,899	4,069	767	4
Hospitals .....	1,043	1,040	296	744	3	
Health services, except hospitals .....	1,009	750	112	638	259	
Educational .....	2,927	2,905	2,257	648	22	
Social services .....	914	865	157	708	45	4
Other .....	1,847	1,409	77	1,332	438	
Forestry and fisheries .....	123	82	36	45	40	1
Public administration .....	3,113	3,113	3,113			
<b>Women</b>						
Mining .....	127	123		123	3	1
Construction .....	704	607	53	554	72	25
Manufacturing .....	7,019	6,900	36	6,864	106	13
Durable goods .....	3,403	3,355	23	3,332	42	6
Nondurable goods .....	3,616	3,545	13	3,532	64	8
Transportation and public utilities .....	2,209	2,154	414	1,740	46	9
Wholesale and retail trade .....	11,226	10,409	62	10,347	731	86
Wholesale trade .....	1,284	1,211	1	1,210	53	20
Retail trade .....	9,942	9,198	61	9,137	679	66
Finance, insurance, and real estate .....	4,691	4,484	91	4,393	196	12
Services .....	22,725	20,850	6,064	14,785	1,801	75
Private households .....	1,000	996	-	996	4	
Other service industries .....	21,725	19,854	6,064	13,789	1,797	75
Business and repair .....	2,722	2,255	35	2,220	438	30
Personal, except private households .....	2,417	1,655	10	1,645	749	13
Entertainment and recreation .....	566	502	76	426	62	2
Professional .....	15,985	15,413	5,925	9,488	544	28
Hospitals .....	3,477	3,476	658	2,818	1	
Health services, except hospitals .....	3,252	3,141	314	2,826	98	13
Educational .....	5,659	5,580	4,497	1,083	79	
Social services .....	1,929	1,732	414	1,318	194	3
Other .....	1,669	1,485	42	1,443	172	12
Forestry and fisheries .....	34	28	18	11	4	2
Public administration .....	2,319	2,319	2,319			

25. Employed civilians by industry, sex, and occupation

(In thousands)

Industry and sex	1988												
	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 .....	3,169	78	69	20	18	99	-	15	39	10	47	19	2,754
Mining .....	753	112	76	37	13	93	-	6	239	24	118	34	1
Construction .....	7,603	998	146	51	80	460	-	30	4,331	90	499	895	24
Manufacturing .....	21,320	2,461	1,781	706	746	2,416	-	343	4,070	6,751	802	1,150	93
Durable goods .....	12,642	1,501	1,205	494	313	1,347	-	191	2,807	3,713	424	564	85
Nondurable goods .....	8,678	960	577	212	434	1,069	-	151	1,263	3,038	378	586	9
Transportation and public utilities .....	8,064	915	455	260	314	2,152	-	258	1,275	120	1,800	505	11
Wholesale and retail trade .....	23,663	2,034	438	117	9,798	2,363	-	4,324	1,474	306	984	1,787	39
Wholesale trade .....	4,578	514	87	45	1,764	807	-	49	300	138	497	361	16
Retail trade .....	19,085	1,520	350	72	8,034	1,556	-	4,274	1,173	168	487	1,427	24
Finance, insurance, and real estate .....	7,921	1,999	195	146	1,885	3,133	-	290	158	17	12	22	63
Services .....	37,043	4,461	11,062	1,931	863	6,072	909	7,827	1,834	768	509	409	399
Private households .....	1,163	2	8	8	-	10	909	102	12	2	7	26	78
Other service industries .....	35,880	4,460	11,054	1,923	862	6,061	-	7,725	1,823	767	502	383	320
Professional services .....	23,725	2,441	9,831	1,566	142	4,375	-	4,299	383	213	298	95	83
Public administration .....	5,432	1,158	751	252	30	1,476	-	1,332	244	31	60	45	53
<b>Men</b>													
Agriculture .....	2,493	55	46	7	8	8	-	9	37	8	44	14	2,255
Mining .....	626	84	64	29	12	26	-	6	234	22	116	32	1
Construction .....	6,899	868	133	44	67	49	-	19	4,253	88	492	864	20
Manufacturing .....	14,301	1,814	1,395	547	516	717	-	274	3,412	3,950	759	826	91
Durable goods .....	9,240	1,136	1,029	397	242	432	-	154	2,370	2,545	405	446	83
Nondurable goods .....	5,062	678	365	150	274	285	-	120	1,042	1,405	354	380	8
Transportation and public utilities .....	5,856	641	363	210	123	905	-	157	1,213	105	1,662	466	10
Wholesale and retail trade .....	12,437	1,169	221	66	4,776	477	-	1,873	1,290	181	925	1,431	27
Wholesale trade .....	3,294	347	56	35	1,475	173	-	35	286	92	484	297	11
Retail trade .....	9,143	822	164	31	3,301	304	-	1,838	1,004	89	440	1,134	16
Finance, insurance, and real estate .....	3,229	985	112	74	1,153	450	-	206	147	11	10	21	60
Services .....	14,318	2,347	4,696	699	357	694	34	2,386	1,656	415	333	339	362
Private households .....	163	-	1	1	-	1	34	11	11	2	5	24	74
Other service industries .....	14,155	2,347	4,695	698	357	693	-	2,374	1,645	413	328	315	288
Professional services .....	7,740	1,105	3,981	458	44	364	-	1,081	332	87	141	75	73
Public administration .....	3,113	661	483	156	11	309	-	1,092	232	26	55	38	48
<b>Women</b>													
Agriculture .....	676	23	23	14	9	91	-	6	2	2	3	5	499
Mining .....	127	28	12	8	1	67	-	-	4	3	2	2	-
Construction .....	704	129	13	7	13	411	-	10	78	2	6	31	3
Manufacturing .....	7,019	647	387	159	230	1,699	-	67	658	2,801	43	325	2
Durable goods .....	3,403	365	175	97	71	915	-	36	437	1,168	19	118	1
Nondurable goods .....	3,616	282	211	62	159	784	-	31	221	1,633	24	206	1
Transportation and public utilities .....	2,209	274	92	50	191	1,246	-	100	63	16	138	39	1
Wholesale and retail trade .....	11,226	865	217	51	5,022	1,886	-	2,450	184	124	59	356	12
Wholesale trade .....	1,284	167	31	10	289	634	-	14	14	45	13	63	4
Retail trade .....	9,942	698	186	41	4,733	1,252	-	2,436	170	79	46	293	7
Finance, insurance, and real estate .....	4,691	1,014	83	72	732	2,682	-	85	11	6	2	1	3
Services .....	22,725	2,114	6,366	1,232	506	5,377	875	5,441	178	353	176	70	36
Private households .....	1,000	1	7	7	1	9	875	90	1	-	2	2	4
Other service industries .....	21,725	2,113	6,359	1,225	505	5,368	-	5,351	177	353	174	68	32
Professional services .....	15,985	1,336	5,849	1,108	98	4,011	-	3,218	51	126	158	20	10
Public administration .....	2,319	496	268	96	18	1,167	-	240	12	5	5	7	5

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

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**26. Employed civilians by industry, race, and occupation**

(In thousands)

Industry and race	1988												
	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 .....	2,965	76	68	20	17	98		13	36	7	39	16	2,576
Mining .....	713	108	73	35	13	83		6	227	23	112	32	1
Construction .....	6,970	966	132	46	75	437		22	3,993	84	445	749	20
Manufacturing .....	18,496	2,333	1,631	623	703	2,148		280	3,600	5,520	654	924	80
Durable goods .....	11,137	1,424	1,098	438	299	1,215		157	2,511	3,103	350	470	73
Nondurable goods .....	7,359	910	533	185	404	933		124	1,089	2,416	304	454	7
Transportation and public utilities .....	6,687	833	403	236	281	1,686		179	1,119	98	1,471	374	9
Wholesale and retail trade .....	20,984	1,840	406	102	8,836	2,122		3,660	1,345	256	852	1,530	34
Wholesale trade .....	4,184	482	76	38	1,667	736		41	276	114	432	307	15
Retail trade .....	16,800	1,358	329	64	7,169	1,387		3,619	1,069	143	421	1,222	19
Finance, insurance, and real estate .....	7,070	1,841	179	131	1,770	2,695	-	226	138	12	11	16	49
Services .....	31,457	4,037	9,847	1,612	774	5,236	687	5,945	1,638	617	405	325	337
Private households .....	877	2	6	6	-	9	687	70	9	1	5	19	63
Other service industries .....	30,580	4,035	9,840	1,605	773	5,227	-	5,874	1,630	616	400	305	274
Professional services .....	20,117	2,194	8,736	1,302	125	3,753		3,125	331	174	237	77	64
Public administration .....	4,469	987	648	215	26	1,158		1,087	209	26	37	31	44
<b>BLACK</b>													
Agriculture .....	153	1						2	2	3	7	2	137
Mining .....	29	2	2	1	-	7			10	1	5	2	-
Construction .....	513	18	8	3	3	15		6	275	5	48	129	3
Manufacturing .....	2,170	69	58	48	33	216		55	341	999	139	201	12
Durable goods .....	1,098	39	36	26	8	107		31	200	490	71	81	11
Nondurable goods .....	1,072	30	23	22	25	109		24	141	509	68	120	1
Transportation and public utilities .....	1,154	58	33	17	27	392		67	129	20	291	119	2
Wholesale and retail trade .....	1,846	110	16	7	634	174		447	90	37	116	211	4
Wholesale trade .....	260	12	4	3	48	49		6	16	18	56	46	1
Retail trade .....	1,586	98	12	3	586	125		442	74	19	59	164	3
Finance, insurance, and real estate .....	631	108	12	9	73	334	-	57	16	4	1	5	12
Services .....	4,380	297	801	219	65	664	205	1,642	141	125	95	76	51
Private households .....	263	-	2	1	-	1	205	30	2	-	2	6	14
Other service industries .....	4,117	297	799	218	65	663	-	1,611	138	124	93	70	37
Professional services .....	-	180	718	182	15	492		1,059	43	35	57	16	17
Public administration .....	782	125	76	26	4	269		217	25	4	19	12	6

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

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

(In thousands)

Sex, age, and race	1988									
	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 .....	753	7,603	21,320	12,642	8,678	8,064	23,663	7,921	35,880	5,432
16 to 19 years .....	12	304	539	261	278	148	3,577	216	1,465	66
20 years and over .....	741	7,299	20,781	12,382	8,399	7,917	20,086	7,704	34,415	5,366
20 to 24 years .....	39	1,023	2,146	1,203	943	675	3,821	1,008	3,711	343
25 years and over .....	702	6,276	18,635	11,179	7,456	7,242	16,265	6,696	30,704	5,023
25 to 54 years .....	622	5,462	16,017	9,655	6,363	6,338	13,723	5,624	25,850	4,290
55 years and over .....	80	814	2,618	1,524	1,093	904	2,542	1,072	4,854	733
<b>Men, 16 years and over</b> .....	626	6,899	14,301	9,240	5,062	5,856	12,437	3,229	14,155	3,113
16 to 19 years .....	10	280	349	186	163	100	1,786	46	623	28
20 years and over .....	616	6,620	13,952	9,054	4,898	5,756	10,652	3,184	13,532	3,086
20 to 24 years .....	32	944	1,392	853	538	448	1,879	292	1,458	162
25 years and over .....	584	5,676	12,560	8,201	4,360	5,308	8,773	2,892	12,074	2,924
25 to 54 years .....	514	4,941	10,756	7,048	3,709	4,585	7,408	2,308	9,879	2,514
55 years and over .....	70	735	1,804	1,153	651	723	1,365	583	2,194	410
<b>Women, 16 years and over</b> .....	127	704	7,019	3,403	3,616	2,209	11,226	4,691	21,725	2,319
16 to 19 years .....	2	24	190	75	115	48	1,792	171	842	38
20 years and over .....	125	680	6,829	3,328	3,501	2,160	9,435	4,521	20,884	2,281
20 to 24 years .....	7	79	754	349	405	227	1,942	716	2,253	181
25 years and over .....	118	601	6,075	2,979	3,096	1,933	7,493	3,805	18,631	2,100
25 to 54 years .....	108	522	5,261	2,608	2,653	1,752	6,317	3,317	15,972	1,778
55 years and over .....	10	79	814	371	443	181	1,176	488	2,659	322
<b>White</b>										
<b>Men, 16 years and over</b> .....	600	6,305	12,554	8,179	4,375	4,914	10,986	2,912	12,173	2,661
16 to 19 years .....	10	263	310	170	140	82	1,566	40	529	24
20 years and over .....	590	6,042	12,244	8,010	4,234	4,831	9,420	2,872	11,645	2,637
20 to 24 years .....	29	872	1,209	758	450	368	1,613	245	1,230	129
25 years and over .....	561	5,170	11,035	7,252	3,784	4,463	7,807	2,627	10,415	2,508
25 to 54 years .....	494	4,500	9,409	6,208	3,202	3,844	6,561	2,081	8,453	2,153
55 years and over .....	67	670	1,626	1,044	582	619	1,246	546	1,962	355
<b>Women, 16 years and over</b> .....	113	665	5,943	2,958	2,985	1,774	9,998	4,158	18,406	1,808
16 to 19 years .....	2	22	165	68	97	40	1,585	157	748	30
20 years and over .....	112	642	5,777	2,889	2,888	1,734	8,413	4,001	17,659	1,778
20 to 24 years .....	7	74	644	305	339	185	1,692	635	1,929	136
25 years and over .....	105	568	5,133	2,584	2,549	1,549	6,721	3,366	15,730	1,642
25 to 54 years .....	95	494	4,394	2,239	2,157	1,387	5,622	2,908	1,347	1,358
55 years and over .....	10	74	739	345	392	162	1,099	458	2,259	284
<b>Black</b>										
<b>Men, 16 years and over</b> .....	20	488	1,139	772	567	791	984	232	1,454	352
16 to 19 years .....	-	14	29	12	17	17	167	5	73	3
20 years and over .....	20	474	1,310	760	550	774	817	227	1,381	349
20 to 24 years .....	2	59	150	74	76	71	196	42	176	27
25 years and over .....	18	415	1,160	686	474	703	621	185	1,205	322
25 to 54 years .....	16	360	1,015	597	419	608	539	158	1,021	287
55 years and over .....	2	55	145	89	55	95	82	27	184	35
<b>Women, 16 years and over</b> .....	9	26	830	326	504	363	861	399	2,662	430
16 to 19 years .....	-	2	19	5	14	7	156	11	75	7
20 years and over .....	9	24	811	321	490	356	704	388	2,588	423
20 to 24 years .....	-	3	87	30	56	39	194	63	259	39
25 years and over .....	9	21	724	291	434	317	510	325	2,329	384
25 to 54 years .....	9	19	667	269	398	302	461	306	1,995	353
55 years and over .....	-	2	57	22	36	15	49	19	334	31

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

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(Numbers in thousands)

Industry	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 18 years and over .....	114,988	45.0	10.1	7.2
Agriculture .....	3,189	21.3	4.9	12.8
Agricultural production, crops .....	1,096	17.2	6.7	15.6
Agricultural production, livestock .....	1,207	22.7	2.4	4.5
Agricultural services, except horticultural .....	310	51.6	4.2	19.3
Horticultural services .....	556	9.6	6.8	22.0
Mining .....	753	16.8	3.9	5.3
Metal mining .....	64	15.3	2.2	8.2
Coal mining .....	154	6.8	2.0	.6
Crude petroleum and natural gas extraction .....	429	22.0	4.6	6.4
Nonmetallic mining and quarrying, except fuel .....	107	11.5	4.7	6.1
Construction .....	7,803	9.3	6.8	7.8
Manufacturing .....	21,320	32.9	10.2	8.3
Durable goods .....	12,642	26.9	8.7	7.4
Lumber and wood products, except furniture .....	758	14.6	15.0	6.4
Logging .....	139	3.8	18.5	.7
Sawmills, planing mills, and millwork .....	395	13.7	17.9	6.4
Wood buildings and mobile homes .....	71	12.9	9.0	7.3
Miscellaneous wood products .....	153	27.7	9.0	11.0
Furniture and fixtures .....	685	29.2	6.5	14.9
Stone, clay, glass, and concrete products .....	610	20.9	11.1	8.5
Glass and glass products .....	172	29.7	10.0	5.0
Cement, concrete, gypsum, and plaster products .....	209	8.3	13.5	10.7
Structural clay, pottery, and related products .....	85	27.3	7.7	13.1
Miscellaneous nonmetallic mineral and stone products .....	145	24.8	10.7	6.9
Primary metal industries .....	802	13.1	10.7	7.4
Blast furnaces, steelworks, rolling, and finishing mills .....	370	7.8	13.1	5.4
Iron and steel foundries .....	116	12.2	12.1	6.2
Primary aluminum industries .....	146	17.3	7.7	10.5
Other primary metal industries .....	167	21.6	7.2	10.1
Fabricated metal industries .....	1,332	23.4	7.8	9.0
Cutlery, hand tools, and other hardware .....	131	34.7	6.4	11.1
Fabricated structural metal products .....	524	17.5	6.7	7.4
Screw machine products .....	67	26.8	5.5	20.5
Metal forging and stampings .....	152	26.5	6.2	4.7
Ordnance .....	98	23.5	5.1	7.4
Miscellaneous and not specified fabricated metal products .....	361	25.6	9.0	10.8
Machinery, except electrical .....	2,532	24.4	5.5	4.9
Engines and turbines .....	69	22.6	7.1	3.1
Farm machinery and equipment .....	119	19.3	9.6	3.7
Construction and material handling machines .....	211	13.4	3.9	2.9
Metal working machinery .....	276	19.2	4.2	4.4
Office and accounting machines .....	89	34.0	9.3	6.4
Electronic computing equipment .....	679	36.4	6.2	6.1
Machinery, except electrical, n.e.c. and not specified .....	1,071	20.3	4.7	4.8
Electrical machinery, equipment and supplies .....	2,039	40.8	7.9	7.0
Household appliances .....	188	40.0	11.3	1.7
Radio, T.V., and communication equipment .....	479	38.2	7.6	6.2
Electrical machinery, equipment, and supplies, n.e.c. and not specified .....	1,392	41.8	7.6	7.9
Transportation equipment .....	2,645	21.0	11.3	6.0
Motor vehicles and motor vehicle equipment .....	1,191	19.8	14.6	4.7
Aircraft and parts .....	662	23.1	7.7	9.2
Ship and boat building and repairing .....	280	13.9	17.6	4.7
Guided missiles, space vehicles, and parts .....	426	26.1	5.2	5.7
Cycles and miscellaneous transportation equipment .....	62	22.3	3.2	7.1
Professional and photographic equipment, and watches .....	695	42.9	5.9	7.4
Scientific and controlling instruments .....	230	38.8	4.5	4.8
Optical and health services supplies .....	314	50.4	6.5	10.6
Photographic equipment and supplies .....	129	26.7	6.9	3.1
Toys, amusements, and sporting goods .....	129	49.4	6.3	12.3
Miscellaneous and not specified manufacturing industries .....	415	43.1	8.3	13.0
Nondurable goods .....	8,678	41.7	12.3	9.6
Food and kindred products .....	1,701	32.6	12.9	12.1
Meat products .....	422	34.1	21.6	11.3
Dairy products .....	167	27.9	5.3	5.4
Canned and preserved fruits and vegetables .....	227	43.0	9.6	18.4

See note at end of table.



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

(Numbers in thousands)

Industry	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Grain mill products .....	115	22.8	9.3	4.6
Bakery products .....	229	30.4	12.5	10.7
Sugar and confectionary products .....	100	43.6	13.9	13.4
Beverage industries .....	206	19.7	7.3	10.2
Miscellaneous and not specified food preparations and kindred products .....	216	37.6	12.8	18.5
Tobacco manufactures .....	58	41.3	26.7	2.9
Textile mill products .....	714	47.1	24.8	4.9
Knitting mills .....	130	68.9	16.4	9.6
Yarn, thread, and fabric mills .....	455	42.8	28.2	3.1
Apparel and other finished textile products .....	1,182	76.1	15.4	21.8
Apparel and accessories, except knit .....	993	77.8	15.5	23.7
Miscellaneous fabricated textile products .....	189	67.3	14.8	11.6
Paper and allied products .....	735	25.1	10.7	7.0
Pulp, paper, and paperboard mills .....	323	16.6	9.1	3.2
Miscellaneous paper and pulp products .....	225	36.5	10.9	10.2
Paperboard containers and boxes .....	188	26.0	13.1	9.6
Printing, publishing, and allied products .....	1,899	44.1	7.4	4.9
Newspaper publishing and printing .....	527	44.6	10.4	2.7
Printing, publishing, and allied industries, except newspapers .....	1,372	43.9	6.3	5.7
Chemicals and allied products .....	1,257	30.7	10.8	5.8
Plastics, synthetics, and resins .....	143	27.3	16.2	9.5
Drugs .....	247	44.0	8.5	5.5
Soaps and cosmetics .....	165	46.5	12.6	10.1
Paints, varnishes, and related products .....	67	25.4	12.4	10.5
Industrial and miscellaneous chemicals .....	593	23.0	10.1	3.4
Petroleum and coal products .....	179	19.2	12.8	3.1
Petroleum refining .....	158	19.9	12.6	3.4
Rubber and miscellaneous plastics products .....	813	34.8	10.7	11.3
Tires and inner tubes .....	90	16.3	18.2	5.3
Other rubber products, and plastics footwear and belting .....	171	35.7	10.9	14.7
Miscellaneous plastics products .....	552	37.6	9.5	11.3
Leather and leather products .....	140	53.3	8.7	15.0
Footwear, except rubber and plastic .....	84	56.7	4.5	9.7
Transportation, communications, and other public utilities .....	8,064	27.4	14.3	6.2
Transportation .....	4,959	24.4	15.6	6.9
Railroads .....	351	7.0	13.8	4.5
Bus service and urban transit .....	462	30.0	24.8	7.7
Taxicab service .....	120	13.8	26.8	10.6
Trucking service .....	1,831	13.6	11.6	5.5
Warehousing and storage .....	132	28.2	12.6	12.1
U.S. Postal Service .....	866	33.2	25.3	7.6
Water transportation .....	188	16.0	13.8	6.9
Air transportation .....	688	33.7	12.7	7.5
Services incidental to transportation .....	306	63.2	5.3	9.8
Communications .....	1,554	45.4	12.0	5.1
Radio and television broadcasting .....	280	39.0	7.3	6.6
Telephone (wire and radio) .....	1,091	47.7	13.0	4.7
Telegraph and miscellaneous communication services .....	183	41.5	13.1	5.4
Utilities and sanitary services .....	1,551	18.9	12.5	4.8
Electric light and power .....	675	21.0	10.3	2.6
Gas and steam supply systems .....	211	19.7	14.9	4.5
Electric and gas, and other combinations .....	181	20.1	10.8	6.4
Water supply and irrigation .....	217	19.8	11.9	7.9
Sanitary services .....	263	10.9	17.7	7.2
Wholesale and retail trade .....	23,663	47.4	7.8	7.4
Wholesale trade .....	4,578	28.0	5.7	7.4
Durable goods .....	2,502	26.7	5.2	5.9
Motor vehicles and equipment .....	227	22.8	4.4	8.8
Furniture and home furnishings .....	83	30.9	5.7	7.2
Lumber and construction materials .....	167	18.6	6.2	6.9
Metals and minerals, except petroleum .....	88	25.1	4.5	10.0
Electrical goods .....	300	31.8	5.5	5.2
Hardware, plumbing, and heating supplies .....	220	25.0	4.3	3.6
Machinery, equipment and supplies .....	1,120	27.9	4.5	4.8
Scrap and waste materials .....	159	14.7	11.9	9.8
Miscellaneous wholesale trade, durable goods .....	93	37.6	3.9	7.1

See note at end of table.

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(Numbers in thousands)

Industry	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nondurable goods .....	2,076	29.7	6.3	9.3
Paper and paper products .....	122	36.6	5.4	3.0
Drugs, chemicals, and allied products .....	184	34.1	7.7	7.0
Apparel, fabrics, and notions .....	126	42.8	8.7	13.7
Groceries and related products .....	778	24.3	7.0	13.4
Farm products-raw materials .....	104	26.1	3.3	2.1
Petroleum products .....	168	33.1	4.4	2.7
Alcoholic beverages .....	149	15.7	10.9	8.0
Farm supplies .....	137	26.2	1.8	4.3
Miscellaneous nondurable goods and not specified wholesale trade .....	308	40.5	5.2	9.7
Retail trade .....	19,085	52.1	8.3	7.4
Lumber and building material retailing .....	504	26.4	7.4	4.1
Hardware stores .....	208	36.0	4.2	7.2
Retail nurseries and garden stores .....	87	34.0	4.8	6.0
Department stores .....	2,062	69.5	11.6	6.7
Variety stores .....	126	71.1	10.9	5.2
Miscellaneous general merchandise stores .....	136	62.7	12.8	9.4
Grocery stores .....	2,708	49.2	8.5	6.9
Dairy products stores .....	60	61.4	4.3	8.1
Retail bakeries .....	189	59.8	4.1	9.7
Food stores, n.e.c. ....	175	46.2	7.4	10.9
Motor vehicle dealers .....	1,106	19.2	5.8	5.3
Auto and home supply stores .....	453	16.6	7.2	8.6
Gasoline service stations .....	508	25.4	5.7	7.0
Miscellaneous vehicle dealers .....	90	20.4	2.5	2.1
Apparel and accessory stores, except shoe .....	835	78.8	9.5	8.6
Shoe stores .....	163	53.8	11.7	8.7
Furniture and home furnishings stores .....	585	38.7	5.8	6.0
Household appliances, T.V., and radio stores .....	464	35.8	5.3	6.8
Eating and drinking places .....	5,480	56.3	10.3	9.9
Drug stores .....	538	62.8	6.1	4.0
Liquor stores .....	134	38.3	11.5	4.8
Sporting goods, bicycles, and hobby stores .....	331	50.9	4.5	3.8
Book and stationery stores .....	204	54.9	6.4	2.7
Jewelry stores .....	196	65.8	3.5	10.1
Sewing, needlework, and piece goods stores .....	62	90.5	9.7	8.7
Mail order houses .....	103	61.1	7.5	3.6
Vending machine operators .....	78	35.3	6.0	2.2
Direct selling establishments .....	331	75.6	4.0	6.5
Fuel and ice dealers .....	118	22.2	4.0	1.2
Retail florists .....	170	74.5	1.6	4.6
Miscellaneous retail stores and not specified retail trade .....	852	60.8	4.2	6.1
Finance, insurance, and real estate .....	7,921	59.2	8.0	5.7
Banking .....	2,008	71.1	9.7	6.4
Savings and loan associations .....	251	74.7	6.3	7.2
Credit agencies, n.e.c. ....	537	67.3	7.5	6.8
Security, commodity brokerage, and investment companies .....	658	39.5	5.8	3.5
Insurance .....	2,314	61.2	8.1	4.6
Real estate, including real estate-insurance law offices .....	2,152	48.2	7.2	6.4
Services .....	37,043	61.3	11.8	6.5
Private households .....	1,163	86.0	22.6	15.3
Other service industries .....	35,880	60.5	11.5	6.2
Business and repair services .....	7,013	38.8	10.4	8.5
Advertising .....	288	48.1	6.2	4.2
Services to dwellings and other buildings .....	791	47.3	17.0	18.5
Commercial research, development, and testing labs .....	253	34.2	6.2	5.4
Personnel supply services .....	736	73.9	21.7	6.9
Business management and consulting services .....	561	48.6	7.3	3.9
Computer and data processing services .....	713	36.2	8.6	3.9
Detective and protective services .....	345	19.1	21.3	8.1
Business services, n.e.c. ....	1,366	52.7	6.7	6.5
Automobile services, except repair .....	364	21.8	14.5	10.9
Automobile repair shops .....	977	9.2	5.9	11.5
Electrical repair shops .....	123	14.0	5.1	7.9
Miscellaneous repair services .....	497	15.4	4.5	8.6

See note at end of table.

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

(Numbers in thousands)

Industry	1988			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Personal services, except private household .....	3,564	67.8	12.1	10.7
Hotels and motels .....	1,233	56.6	16.2	15.1
Lodging places, except hotels and motels .....	469	85.4	8.0	7.5
Laundry, cleaning, and garment services .....	477	57.8	17.7	13.3
Beauty shops .....	794	88.0	8.2	8.1
Barber shops .....	91	17.5	13.1	10.4
Funeral service and crematories .....	88	32.3	14.2	4.1
Entertainment and recreational services .....	1,421	39.9	9.1	6.3
Theaters and motion pictures .....	450	35.4	8.4	5.6
Bowling alleys, billiard and pool parlors .....	69	48.1	4.1	.9
Miscellaneous entertainment and recreation services .....	903	41.4	9.8	7.0
Professional and related services .....	23,725	67.4	11.9	4.9
Hospitals .....	4,520	76.9	16.8	5.3
Health services, except hospitals .....	4,261	76.3	12.2	5.0
Offices of physicians .....	985	69.8	2.8	5.2
Offices of dentists .....	521	72.8	3.0	2.7
Offices of chiropractors .....	77	60.5	2.6	5.0
Offices of optometrists .....	69	66.7	1.7	.8
Nursing and personal care facilities .....	1,467	86.0	23.7	4.2
Educational services .....	8,586	65.9	11.0	4.8
Elementary and secondary schools .....	5,737	71.6	11.8	5.2
Colleges and universities .....	2,425	51.0	9.6	4.1
Business, trade, and vocational schools .....	76	52.7	13.3	4.1
Libraries .....	175	81.7	11.1	1.4
Educational services, n.e.c. ....	173	76.3	5.0	4.0
Social services .....	2,042	77.7	16.4	6.8
Job training and vocational rehabilitation services .....	216	51.7	16.3	3.8
Child day care services .....	630	95.7	13.6	5.9
Residential care facilities, without nursing .....	406	70.6	15.9	6.6
Social services, n.e.c. ....	790	74.0	19.0	8.5
Other professional services .....	4,316	46.6	5.9	3.8
Legal services .....	1,177	55.4	5.1	4.1
Museums, art galleries, and zoos .....	101	48.9	12.8	6.4
Religious organizations .....	800	42.8	7.8	3.4
Membership organizations .....	462	59.1	9.8	4.0
Engineering, architectural, and surveying services .....	820	23.7	4.3	4.3
Accounting, auditing, and bookkeeping services .....	610	54.2	3.6	3.7
Noncommercial educational and scientific research .....	116	39.4	8.5	1.6
Miscellaneous professional and related services .....	230	53.7	1.9	1.2
Forestry and fisheries .....	157	21.8	4.6	4.4
Forestry .....	86	26.3	6.0	5.5
Fisheries .....	71	16.3	2.9	3.0
Public administration .....	5,432	42.7	14.4	5.9
Executive and legislative offices .....	168	62.1	11.0	2.6
General government, n.e.c. ....	566	50.2	13.7	6.2
Justice, public order, and safety .....	1,918	30.3	13.8	5.8
Public finance, taxation, and monetary policy .....	398	62.4	16.9	5.0
Administration of human resources programs .....	632	68.5	20.0	6.6
Administration of environmental quality and housing programs .....	313	33.2	10.5	5.2
Administration of economic programs .....	545	44.3	12.2	5.0
National security and international affairs .....	893	36.3	14.5	7.3

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.

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	1987	1988	Total		Wage and salary workers <sup>1</sup>			
			1987	1988	Paid absences		Unpaid absences	
					1987	1988	1987	1988
Total, 16 years and over .....	5,910	5,831	5,784	5,698	2,997	2,907	2,230	2,225
Vacation .....	3,421	3,236	3,375	3,190	2,254	2,112	888	852
Illness .....	1,320	1,364	1,290	1,337	501	543	685	688
Bad weather .....	92	122	72	104	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	34	30	34	29	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons <sup>2</sup> .....	1,043	1,080	1,012	1,037	242	252	657	684
Men, 16 years and over .....	2,840	2,820	2,741	2,717	1,517	1,475	903	907
Vacation .....	1,608	1,544	1,574	1,510	1,159	1,101	290	289
Illness .....	698	697	673	676	269	279	346	336
All other reasons <sup>2</sup> .....	533	580	495	530	89	95	266	282
Women, 16 years and over .....	3,071	3,011	3,043	2,981	1,481	1,432	1,327	1,319
Vacation .....	1,813	1,692	1,801	1,680	1,095	1,010	598	564
Illness .....	622	667	617	661	232	264	338	353
All other reasons <sup>2</sup> .....	636	652	625	640	153	157	391	402

<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	1988					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	109,137	3,035	106,101	100.0	100.0	100.0
1 to 34 hours .....	26,132	874	25,259	23.9	28.8	23.8
1 to 4 hours .....	770	44	726	.7	1.4	.7
5 to 14 hours .....	4,444	209	4,236	4.1	6.9	4.0
15 to 29 hours .....	12,983	416	12,567	11.9	13.7	11.8
30 to 34 hours .....	7,935	205	7,730	7.3	6.8	7.3
35 hours and over .....	83,004	2,162	80,844	76.1	71.2	76.2
35 to 39 hours .....	7,166	135	7,032	6.6	4.4	6.6
40 hours .....	43,195	633	42,562	39.6	20.8	40.1
41 hours and over .....	32,643	1,394	31,250	29.9	45.9	29.5
41 to 48 hours .....	11,634	242	11,393	10.7	8.0	10.7
49 to 59 hours .....	12,085	395	11,690	11.1	13.0	11.0
60 hours and over .....	8,924	757	8,167	8.2	24.9	7.7
Average hours, total at work .....	39.4	43.9	39.3			
Average hours, workers on full-time schedules .....	43.8	51.5	43.6			

**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	1988					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	26,132	7,723	18,409	25,259	7,437	17,821
Economic reasons .....	5,206	1,760	3,446	4,965	1,653	3,312
Slack work .....	2,350	1,391	959	2,199	1,296	903
Material shortages or repairs to plant and equipment .....	54	54	-	52	52	-
New job started during week .....	224	224	-	215	215	-
Job terminated during week .....	90	90	-	88	88	-
Could find only part-time work .....	2,487	-	2,487	2,408	-	2,408
Other reasons .....	20,926	5,963	14,963	20,295	5,786	14,509
Does not want, or unavailable for, full-time work .....	12,495	-	12,495	12,145	-	12,145
Vacation .....	1,445	1,445	-	1,428	1,428	-
Illness .....	1,550	1,390	160	1,514	1,364	150
Bad weather .....	525	525	-	463	463	-
Industrial dispute .....	7	7	-	7	7	-
Legal or religious holiday .....	995	995	-	992	992	-
Full time for this job .....	1,660	-	1,660	1,624	-	1,624
All other reasons .....	2,249	1,601	648	2,121	1,530	591
Average hours:						
Economic reasons .....	22.1	24.3	21.0	22.2	24.4	21.1
Other reasons .....	21.5	26.5	19.5	21.5	26.6	19.5
Worked 30 to 34 hours:						
Economic reasons .....	1,673	801	872	1,607	759	848
Other reasons .....	6,262	3,325	2,937	6,123	3,256	2,867

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

(Numbers in thousands)

Industry	1988								
	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 .....	106,101	4,965	14,509	86,627	55,377	11,393	19,857	39.3	43.6
Wage and salary workers .....	97,842	4,345	13,055	80,442	52,633	10,783	17,026	39.1	43.2
Mining .....	685	15	16	654	358	100	196	44.9	46.0
Construction .....	5,889	402	257	5,230	3,530	634	1,066	40.4	42.8
Manufacturing .....	19,955	496	653	18,806	11,871	3,128	3,807	42.1	43.3
Durable goods .....	11,861	195	281	11,385	7,076	1,927	2,382	42.6	43.5
Nondurable goods .....	8,095	301	372	7,422	4,796	1,201	1,425	41.4	43.1
Transportation and public utilities .....	7,271	223	406	6,642	4,241	882	1,519	42.1	44.0
Wholesale and retail trade .....	20,878	1,455	4,889	14,534	8,676	2,219	3,639	37.0	44.0
Finance, insurance, and real estate .....	6,991	135	652	6,204	4,300	727	1,177	39.8	42.3
Service industries .....	31,009	1,555	5,896	23,558	16,041	2,638	4,879	37.3	42.8
Private households .....	1,112	209	478	425	270	50	105	26.4	45.5
All other industries .....	29,897	1,346	5,418	23,133	15,771	2,588	4,774	37.7	42.8
Public administration .....	5,163	64	287	4,812	3,613	454	745	40.3	41.9
Self-employed workers .....	8,000	606	1,352	6,042	2,671	597	2,774	41.0	48.3
Unpaid family workers .....	260	13	102	145	75	13	57	36.0	46.8

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

(Numbers in thousands)

Sex, age, race, and marital status	1988							
	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 .....	106,101	4,965	14,509	86,627	55,377	31,250	39.3	43.6
16 to 19 years .....	6,319	666	3,395	2,258	1,774	484	26.0	40.3
16 to 17 years .....	2,488	226	1,885	377	315	62	19.8	38.6
18 to 19 years .....	3,831	440	1,510	1,881	1,459	422	30.0	40.7
20 years and over .....	99,783	4,299	11,114	84,370	53,605	30,765	40.1	43.6
20 to 24 years .....	12,449	873	2,035	9,541	6,652	2,889	37.4	42.4
25 years and over .....	87,334	3,426	9,079	74,829	46,954	27,875	40.5	43.8
25 to 44 years .....	57,502	2,287	4,949	50,266	30,995	19,271	41.1	43.9
45 to 64 years .....	27,156	1,019	2,868	23,269	15,046	8,223	40.3	43.6
65 years and over .....	2,675	120	1,263	1,292	912	380	29.4	42.2
<b>Men, 16 years and over</b> .....	58,063	2,284	4,331	51,448	29,256	22,192	42.2	45.1
16 to 19 years .....	3,166	329	1,587	1,250	940	310	27.3	41.0
16 to 17 years .....	1,255	125	908	222	184	38	20.9	39.1
18 to 19 years .....	1,912	204	678	1,030	758	272	31.4	41.4
20 years and over .....	54,896	1,955	2,744	50,197	28,315	21,882	43.1	45.2
20 to 24 years .....	6,428	426	833	5,169	3,311	1,858	39.2	43.6
25 years and over .....	48,469	1,529	1,912	45,028	25,005	20,023	43.6	45.4
25 to 44 years .....	31,762	1,043	694	30,025	16,201	13,824	44.3	45.6
45 to 64 years .....	15,182	422	581	14,179	8,255	5,924	43.4	44.9
65 years and over .....	1,526	63	636	827	552	275	31.3	42.8
<b>Women, 16 years and over</b> .....	48,038	2,680	10,178	35,180	26,123	9,057	35.7	41.3
16 to 19 years .....	3,152	337	1,809	1,006	833	173	24.7	39.4
16 to 17 years .....	1,233	100	977	156	132	24	18.7	37.9
18 to 19 years .....	1,920	236	832	852	702	150	28.5	39.7
20 years and over .....	44,886	2,343	8,369	34,174	25,291	8,883	36.5	41.4
20 to 24 years .....	6,021	446	1,201	4,374	3,343	1,031	35.4	41.0
25 years and over .....	38,865	1,898	7,169	29,798	21,946	7,852	36.6	41.5
25 to 44 years .....	25,741	1,243	4,254	20,244	14,795	5,449	37.1	41.5
45 to 64 years .....	11,976	598	2,287	9,091	6,793	2,298	36.5	41.4
65 years and over .....	1,149	57	627	465	360	105	26.9	41.1
<b>RACE</b>								
White, 16 years and over .....	91,929	4,026	13,022	74,881	46,469	28,412	39.4	43.8
Men .....	50,873	1,866	3,804	45,203	24,855	20,348	42.5	45.3
Women .....	41,056	2,160	9,218	29,678	21,612	8,066	35.5	41.5
Black, 16 years and over .....	10,869	786	1,061	9,022	6,991	2,031	38.2	41.6
Men .....	5,407	353	363	4,691	3,390	1,301	39.9	42.7
Women .....	5,462	433	698	4,331	3,601	730	36.5	40.4
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,066	951	1,322	34,793	18,814	15,979	44.0	45.6
Widowed, divorced, or separated .....	5,744	279	267	5,198	2,963	2,235	42.9	45.2
Single (never married) .....	15,253	1,054	2,742	11,457	7,476	3,981	37.6	43.5
Women, 16 years and over:								
Married, spouse present .....	26,354	1,264	5,962	19,128	14,448	4,680	35.4	41.0
Widowed, divorced, or separated .....	9,340	548	1,169	7,623	5,438	2,185	38.1	41.9
Single (never married) .....	12,344	866	3,046	8,432	6,240	2,192	34.4	41.5

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

(Numbers in thousands)

Occupation and sex	1988								
	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>	105,855	4,918	14,466	86,471	55,199	11,386	19,886	39.3	43.6
Managerial and professional specialty	27,474	491	2,511	24,472	13,486	3,143	7,843	42.3	45.1
Executive, administrative, and managerial	13,613	175	694	12,744	6,516	1,678	4,550	44.4	46.0
Professional specialty	13,862	316	1,817	11,728	6,970	1,465	3,293	40.4	44.2
Technical, sales, and administrative support	33,930	1,304	6,014	26,612	18,265	3,247	5,100	37.8	42.6
Technicians and related support	3,362	52	385	2,925	2,046	384	495	39.6	42.4
Sales occupations	13,157	706	2,721	9,729	5,095	1,323	3,311	39.0	45.7
Administrative support, including clerical	17,411	545	2,907	13,958	11,124	1,540	1,293	36.4	40.5
Service occupations	14,556	1,421	4,031	9,104	6,553	1,001	1,550	34.0	42.6
Private household	876	152	397	327	212	40	74	25.9	44.6
Protective service	1,824	47	162	1,615	963	239	413	42.5	45.5
Service, except private household and protective	11,856	1,221	3,472	7,163	5,378	722	1,062	33.3	41.9
Precision production, craft, and repair	13,021	629	455	11,937	7,508	1,790	2,639	41.8	43.6
Operators, fabricators, and laborers	16,874	1,072	1,455	14,346	9,387	2,206	2,754	40.0	43.3
Machine operators, assemblers, and inspectors	7,697	362	333	7,002	4,843	1,161	998	40.6	42.3
Transportation and material moving occupations	4,539	247	340	3,952	2,076	572	1,304	43.0	46.3
Handlers, equipment cleaners, helpers, and laborers	4,638	464	782	3,392	2,467	474	452	36.2	41.8
Men, 16 years and over <sup>1</sup>	57,708	2,234	4,255	51,219	29,035	7,195	14,989	42.3	45.1
Managerial and professional specialty	15,413	221	708	14,484	6,892	1,798	5,794	45.3	46.9
Executive, administrative, and managerial	8,290	97	252	7,941	3,468	1,009	3,463	46.5	47.6
Professional specialty	7,123	123	455	6,544	3,424	789	2,331	43.8	46.1
Technical, sales, and administrative support	12,031	294	1,128	10,609	5,697	1,512	3,401	42.5	45.5
Technicians and related support	1,763	24	103	1,637	1,045	232	359	41.9	43.6
Sales occupations	6,778	173	650	5,955	2,549	845	2,561	44.4	47.7
Administrative support, including clerical	3,490	97	375	3,018	2,102	435	481	39.2	42.2
Service occupations	5,795	410	1,105	4,280	2,898	516	865	37.5	43.9
Private household	33	9	13	11	8	1	3	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,567	33	106	1,429	826	217	385	43.7	46.0
Service, except private household and protective	4,195	368	987	2,840	2,064	298	478	35.3	42.8
Precision production, craft, and repair	11,901	571	339	10,991	6,829	1,655	2,508	42.1	43.8
Operators, fabricators, and laborers	12,569	738	975	10,855	6,720	1,714	2,421	40.9	44.0
Machine operators, assemblers, and inspectors	4,570	152	132	4,286	2,763	766	757	42.0	43.2
Transportation and material moving occupations	4,148	204	222	3,723	1,915	545	1,262	43.9	46.5
Handlers, equipment cleaners, helpers, and laborers	3,850	382	622	2,847	2,041	403	402	36.4	42.0
Women, 16 years and over <sup>1</sup>	48,147	2,684	10,211	35,252	26,164	4,191	4,897	35.7	41.4
Managerial and professional specialty	12,061	270	1,803	9,988	6,594	1,345	2,049	38.6	42.5
Executive, administrative, and managerial	5,322	77	442	4,804	3,048	669	1,086	41.1	43.2
Professional specialty	6,739	193	1,362	5,184	3,546	675	963	36.7	41.9
Technical, sales, and administrative support	21,899	1,010	4,886	16,003	12,569	1,735	1,699	35.2	40.6
Technicians and related support	1,599	29	282	1,288	1,001	152	136	37.1	40.8
Sales occupations	6,378	533	2,071	3,774	2,546	478	751	33.4	42.4
Administrative support, including clerical	13,921	448	2,532	10,941	9,022	1,105	813	35.8	40.0
Service occupations	8,761	1,011	2,926	4,825	3,655	485	685	31.7	41.5
Private household	843	143	385	315	204	40	72	26.0	44.6
Protective service	257	14	57	186	137	21	29	35.2	42.0
Service, except private household and protective	7,661	854	2,485	4,323	3,314	424	585	32.2	41.3
Precision production, craft, and repair	1,120	58	116	946	679	135	132	38.6	41.8
Operators, fabricators, and laborers	4,305	334	479	3,491	2,667	492	332	37.4	40.9
Machine operators, assemblers, and inspectors	3,127	210	201	2,716	2,080	395	241	38.5	40.8
Transportation and material moving occupations	390	43	118	229	161	27	42	33.8	42.2
Handlers, equipment cleaners, helpers, and laborers	788	82	160	546	426	70	50	34.8	40.9

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

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

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

(In thousands)

Reason and sex	Total		Age							
	1987	1988	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>										
Total not in labor force .....	62,888	82,944	6,818	6,497	3,993	3,929	21,161	21,074	31,115	31,444
Do not want a job now .....	57,172	57,571	5,377	5,349	3,172	3,177	18,127	18,203	30,498	30,841
Current activity:										
Going to school .....	6,378	6,383	4,137	4,131	1,408	1,427	820	808	14	14
Ill, disabled .....	4,294	4,485	38	53	124	140	2,122	2,213	2,014	2,080
Keeping house .....	25,724	25,139	366	343	1,197	1,175	12,282	12,131	11,878	11,491
Retired .....	16,237	18,930	-	-	-	-	407	445	15,831	16,484
Other activity .....	4,539	4,634	838	822	443	435	2,496	2,606	761	772
Want a job now .....	5,714	5,373	1,240	1,147	822	753	3,034	2,872	616	602
Reason for not looking:										
School attendance .....	1,420	1,353	894	843	235	237	284	267	6	6
Ill health, disability .....	862	805	27	21	46	47	603	558	185	178
Home responsibilities .....	1,266	1,168	70	65	241	209	905	843	49	51
Think cannot get a job .....	1,026	954	121	92	143	125	585	577	177	160
Job-market factors .....	672	619	73	49	100	86	421	415	80	67
Personal factors .....	354	336	48	42	43	40	164	159	97	94
Other reasons <sup>1</sup> .....	1,140	1,093	128	126	157	135	657	627	199	207
<b>Men</b>										
Total not in labor force .....	20,692	20,930	3,222	3,144	1,358	1,337	4,116	4,256	11,996	12,193
Do not want a job now .....	18,688	18,985	2,596	2,549	1,083	1,075	3,290	3,441	11,719	11,917
Current activity:										
Going to school .....	3,228	3,186	2,107	2,086	767	768	350	330	4	2
Ill, disabled .....	2,193	2,290	17	24	72	86	1,191	1,250	914	929
Keeping house .....	457	438	30	24	24	11	152	162	249	240
Retired .....	10,353	10,575	-	-	-	-	309	334	10,045	10,240
Other activity .....	2,457	2,496	442	415	220	210	1,288	1,365	507	506
Want a job now .....	2,003	1,944	624	595	275	260	824	815	278	276
Reason for not looking:										
School attendance .....	718	683	489	473	118	118	108	89	2	2
Ill health, disability .....	426	375	12	8	29	23	295	263	90	82
Think cannot get a job .....	425	438	68	55	66	62	212	242	78	80
Other reasons <sup>1</sup> .....	434	448	55	59	62	57	209	221	108	112
<b>Women</b>										
Total not in labor force .....	42,195	42,014	3,396	3,352	2,636	2,593	17,045	16,818	19,119	19,251
Do not want a job now .....	38,484	38,586	2,781	2,798	2,091	2,099	14,838	14,762	18,778	18,925
Current activity:										
Going to school .....	3,150	3,197	2,030	2,045	642	659	469	479	10	12
Ill, disabled .....	2,101	2,195	18	27	54	53	931	961	1,099	1,152
Keeping house .....	25,267	24,701	337	319	1,172	1,163	12,131	11,968	11,629	11,252
Retired .....	5,884	6,355	-	-	-	-	98	111	5,786	6,243
Other activity .....	2,082	2,138	396	407	223	224	1,209	1,242	254	266
Want a job now .....	3,711	3,429	616	552	547	494	2,208	2,059	339	326
Reason not looking:										
School attendance .....	702	670	405	370	116	118	177	178	3	4
Ill health, disability .....	436	430	16	14	16	24	308	296	96	96
Home responsibilities .....	1,266	1,168	70	65	241	209	905	843	49	51
Think cannot get a job .....	601	516	53	37	78	64	371	335	99	81
Other reasons .....	706	645	72	66	96	79	447	407	92	94

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

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

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



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			
	1987	1988	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
<b>WHITE</b>												
Total not in labor force .....	53,669	53,439	8,089	7,862	17,669	17,406	27,910	28,171	17,410	17,538	36,258	35,901
Do not want a job now .....	49,455	49,576	6,636	6,560	15,422	15,333	27,399	27,678	15,931	16,118	33,524	33,458
Current activity:												
Going to school .....	4,923	4,870	4,302	4,253	609	604	13	12	2,503	2,447	2,420	2,423
Ill, disabled .....	3,386	3,516	116	141	1,642	1,707	1,630	1,668	1,750	1,813	1,636	1,703
Keeping house .....	22,862	22,287	1,268	1,228	10,781	10,575	10,813	10,483	357	346	22,505	21,941
Retired .....	14,629	15,228	-	-	374	402	14,257	14,823	9,363	9,569	5,266	5,659
Other activity .....	3,655	3,675	950	938	2,016	2,045	686	692	1,958	1,943	1,697	1,732
Want a job now .....	4,213	3,863	1,451	1,298	2,248	2,072	511	492	1,479	1,419	2,734	2,444
Reason for not looking:												
School attendance .....	1,016	928	805	751	206	173	5	4	518	477	498	451
Ill health, disability .....	649	585	53	47	450	401	145	137	340	284	309	301
Home responsibilities .....	932	833	207	171	682	622	43	40	-	-	932	833
Think cannot get a job .....	693	639	162	124	389	383	140	129	279	301	414	338
Other reasons <sup>1</sup> .....	923	878	224	205	521	493	178	182	342	357	581	521
<b>BLACK</b>												
Total not in labor force .....	7,359	7,487	2,025	2,036	2,643	2,724	2,691	2,728	2,641	2,694	4,717	4,793
Do not want a job now .....	6,075	6,215	1,491	1,519	1,987	2,064	2,597	2,630	2,210	2,273	3,865	3,941
Current activity:												
Going to school .....	1,035	1,066	920	974	115	91	-	-	496	502	540	564
Ill, disabled .....	814	877	39	45	425	448	350	384	395	425	419	452
Keeping house .....	2,161	2,080	251	243	1,025	1,040	885	796	77	71	2,084	2,008
Retired .....	1,344	1,420	-	-	27	37	1,317	1,384	822	823	521	597
Other activity .....	721	772	281	257	395	448	45	66	420	452	301	320
Want a job now .....	1,284	1,272	535	513	657	660	94	100	431	421	852	853
Reason for not looking:												
School attendance .....	333	347	277	277	56	69	-	1	159	160	174	187
Ill health, disability .....	188	201	18	18	132	144	37	39	72	82	116	119
Home responsibilities .....	295	291	99	92	192	187	5	11	-	-	295	291
Think cannot get a job .....	294	261	90	82	173	154	32	26	127	108	167	153
Other reasons <sup>1</sup> .....	174	173	51	44	104	106	20	23	73	71	100	103
<b>HISPANIC ORIGIN</b>												
Total not in labor force .....	4,327	4,342	1,207	1,145	2,029	2,085	1,090	1,112	1,208	1,195	3,119	3,147
Do not want a job now .....	3,749	3,784	971	921	1,723	1,783	1,055	1,082	1,012	1,004	2,734	2,778
Current activity:												
Going to school .....	583	531	515	473	67	59	1	-	284	257	298	274
Ill, disabled .....	325	343	22	27	193	204	109	113	178	185	147	157
Keeping house .....	2,011	2,057	311	299	1,286	1,305	414	453	50	46	1,961	2,010
Retired .....	523	508	-	-	15	15	509	492	326	328	196	180
Other activity .....	307	345	123	122	162	200	22	24	174	188	132	157
Want a job now .....	578	559	237	226	307	300	34	29	195	190	384	369
Reason for not looking:												
School attendance .....	150	132	119	105	31	26	-	-	75	63	76	69
Ill health, disability .....	72	62	5	7	53	43	15	12	40	31	32	32
Home responsibilities .....	160	148	46	46	110	101	3	1	-	-	160	148
Think cannot get a job .....	106	122	42	34	55	80	10	7	48	55	58	67
Other reasons <sup>1</sup> .....	90	95	25	34	58	50	7	9	32	41	58	53

<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.

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

(In thousands)

Reason and sex	1988							
	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 .....	112	9	1	21	81	90	18	6
Lacks education or training .....	143	23	29	87	4	86	44	22
Other personal handicap .....	81	10	10	51	9	58	21	8
Job-market factors:								
Could not find work .....	352	33	50	239	29	209	128	61
Thinks no job available .....	267	16	36	176	38	197	50	25
<b>Men</b>								
Personal factors:								
Employers think too young or old .....	52	5	1	8	38	40	11	3
Lacks education or training .....	51	17	13	21	1	30	15	7
Other personal handicap .....	45	6	4	30	4	35	8	4
Job-market factors:								
Could not find work .....	166	17	27	109	14	107	53	31
Thinks no job available .....	125	9	17	76	23	90	22	10
<b>Women</b>								
Personal factors:								
Employers think too young or old .....	60	4	-	14	42	50	7	2
Lacks education or training .....	92	6	16	68	3	56	29	15
Other personal handicap .....	36	5	6	21	5	23	13	4
Job-market factors:								
Could not find work .....	186	15	23	132	16	102	75	30
Thinks no job available .....	142	7	19	101	15	107	28	15

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.

**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			
	1987	1988	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>												
Do not intend to seek work .....	53,549	53,987	5,877	5,920	17,148	17,181	30,524	30,886	46,362	46,495	5,684	5,857
Intend to seek work in the next 12 months .....	9,335	8,954	4,733	4,504	4,012	3,893	591	557	7,305	6,941	1,674	1,630
Never worked .....	1,637	1,511	1,468	1,341	165	164	3	7	1,117	999	433	419
Last worked over 5 years ago .....	1,230	1,152	69	51	983	912	179	189	914	840	279	266
Last worked 1 to 5 years ago .....	2,069	1,878	583	513	1,291	1,188	195	177	1,622	1,432	366	368
Worked during previous 12 months .....	4,400	4,412	2,614	2,599	1,574	1,628	213	184	3,652	3,670	596	578
<b>Men</b>												
Do not intend to seek work .....	17,183	17,567	2,361	2,370	3,106	3,263	11,716	11,933	14,658	14,903	2,037	2,126
Intend to seek work in the next 12 months .....	3,508	3,361	2,218	2,110	1,009	992	280	259	2,751	2,634	604	569
Never worked .....	751	652	716	618	34	34	1	-	512	438	197	178
Last worked over 5 years ago .....	266	246	16	16	173	161	78	70	177	175	78	53
Last worked 1 to 5 years ago .....	618	583	194	182	325	304	98	96	491	455	94	99
Worked during previous 12 months .....	1,873	1,880	1,293	1,294	477	491	104	94	1,571	1,567	235	239
<b>Women</b>												
Do not intend to seek work .....	36,366	36,420	3,516	3,550	14,042	13,917	18,808	18,952	31,704	31,592	3,647	3,731
Intend to seek work in the next 12 months .....	5,828	5,593	2,514	2,394	3,003	2,899	310	299	4,554	4,307	1,070	1,062
Never worked .....	886	859	753	723	131	130	3	7	605	561	236	240
Last worked over 5 years ago .....	964	906	52	36	810	751	101	119	737	665	201	213
Last worked 1 to 5 years ago .....	1,451	1,295	391	331	965	883	96	81	1,131	977	273	269
Worked during previous 12 months .....	2,527	2,533	1,321	1,305	1,097	1,137	109	91	2,081	2,103	361	339

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

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	182,753	184,613	156,958	158,194	20,352	20,692	12,867	13,325
Civilian labor force .....	119,865	121,669	103,290	104,756	12,993	13,205	8,541	8,982
Percent of population .....	65.6	65.9	65.8	66.2	63.8	63.8	66.4	67.4
Employed .....	112,440	114,968	97,789	99,812	11,309	11,658	7,790	8,250
Agriculture .....	3,208	3,169	2,986	2,965	164	153	398	407
Nonagricultural industries .....	109,232	111,800	94,803	96,846	11,145	11,505	7,391	7,843
Unemployed .....	7,425	6,701	5,501	4,944	1,684	1,547	751	732
Unemployment rate .....	6.2	5.5	5.3	4.7	13.0	11.7	8.8	8.2
Not in labor force .....	62,888	62,944	53,669	53,439	7,359	7,487	4,327	4,342
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	86,899	87,857	75,189	75,855	9,128	9,289	6,371	6,604
Civilian labor force .....	66,207	66,927	57,779	58,317	6,486	6,596	5,163	5,409
Percent of population .....	76.2	76.2	76.8	76.9	71.1	71.0	81.0	81.9
Employed .....	62,107	63,273	54,647	55,550	5,661	5,824	4,713	4,972
Agriculture .....	2,543	2,493	2,354	2,318	142	133	351	356
Nonagricultural industries .....	59,564	60,780	52,293	53,232	5,519	5,691	4,361	4,616
Unemployed .....	4,101	3,655	3,132	2,766	826	771	451	437
Unemployment rate .....	6.2	5.5	5.4	4.7	12.7	11.7	8.7	8.1
Not in labor force .....	20,692	20,930	17,410	17,538	2,642	2,694	1,208	1,195
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	79,565	80,553	69,175	69,887	8,063	8,215	5,700	5,921
Civilian labor force .....	62,095	62,768	54,232	54,734	6,023	6,127	4,818	5,031
Percent of population .....	78.0	77.9	78.4	78.3	74.7	74.6	84.5	85.0
Employed .....	58,726	59,781	51,649	52,466	5,357	5,509	4,444	4,680
Agriculture .....	2,329	2,271	2,150	2,104	135	129	327	327
Nonagricultural industries .....	56,397	57,510	49,499	50,362	5,222	5,381	4,118	4,353
Unemployed .....	3,369	2,987	2,584	2,268	666	617	374	351
Unemployment rate .....	5.4	4.8	4.8	4.1	11.1	10.1	7.8	7.0
Not in labor force .....	17,470	17,785	14,942	15,153	2,040	2,089	882	890
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	95,853	96,756	81,769	82,340	11,224	11,402	6,496	6,721
Civilian labor force .....	53,658	54,742	45,510	46,439	6,507	6,609	3,377	3,573
Percent of population .....	56.0	56.6	55.7	56.4	58.0	58.0	52.0	53.2
Employed .....	50,334	51,696	43,142	44,262	5,648	5,834	3,077	3,278
Agriculture .....	666	676	632	648	22	20	47	51
Nonagricultural industries .....	49,668	51,020	42,509	43,614	5,626	5,814	3,030	3,227
Unemployed .....	3,324	3,046	2,369	2,177	858	776	300	296
Unemployment rate .....	6.2	5.6	5.2	4.7	13.2	11.7	8.9	8.3
Not in labor force .....	42,195	42,014	36,258	35,901	4,717	4,793	3,119	3,147
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	88,583	89,532	75,845	76,470	10,126	10,298	5,835	6,050
Civilian labor force .....	49,783	50,870	42,164	43,081	6,071	6,190	3,112	3,281
Percent of population .....	56.2	56.8	55.6	56.3	60.0	60.1	53.3	54.2
Employed .....	47,074	48,383	40,242	41,316	5,365	5,548	2,872	3,047
Agriculture .....	622	625	590	599	20	18	45	49
Nonagricultural industries .....	46,453	47,757	39,652	40,717	5,345	5,530	2,827	2,998
Unemployed .....	2,709	2,487	1,922	1,766	706	642	241	234
Unemployment rate .....	5.4	4.9	4.6	4.1	11.6	10.4	7.7	7.1
Not in labor force .....	38,800	38,662	33,681	33,389	4,054	4,108	2,723	2,769
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,606	14,527	11,939	11,838	2,163	2,179	1,332	1,354
Civilian labor force .....	7,988	8,031	6,893	6,940	899	889	610	671
Percent of population .....	54.7	55.3	57.7	58.6	41.6	40.8	45.8	49.6
Employed .....	6,640	6,805	5,898	6,030	587	601	474	523
Agriculture .....	258	273	246	263	9	7	27	32
Nonagricultural industries .....	6,382	6,532	5,652	5,767	578	594	447	492
Unemployed .....	1,347	1,226	995	910	312	288	136	148
Unemployment rate .....	16.9	15.3	14.4	13.1	34.7	32.4	22.3	22.0
Not in labor force .....	6,618	6,497	5,045	4,897	1,264	1,291	722	683

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

40. Employment status of 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	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	12,867	13,325	7,651	8,013	1,540	1,599	819	849
Civilian labor force .....	8,541	8,982	5,203	5,572	827	883	546	565
Percent of population .....	66.4	67.4	68.0	69.5	53.7	55.2	66.7	66.5
Employed .....	7,790	8,250	4,690	5,066	744	807	518	537
Agriculture .....	398	407	351	369	9	4	4	5
Nonagricultural industries .....	7,391	7,843	4,339	4,696	735	803	514	532
Unemployed .....	751	732	514	506	83	76	28	28
Unemployment rate .....	8.8	8.2	9.9	9.1	10.1	8.6	5.2	5.0
Not in labor force .....	4,327	4,342	2,448	2,441	713	716	273	284
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	6,371	6,604	3,929	4,133	669	705	407	417
Civilian labor force .....	5,163	5,409	3,251	3,482	484	513	316	329
Percent of population .....	81.0	81.9	82.7	84.2	72.3	72.8	77.6	78.9
Employed .....	4,713	4,972	2,941	3,177	433	467	300	313
Agriculture .....	351	356	313	324	7	4	3	4
Nonagricultural industries .....	4,361	4,616	2,628	2,853	427	462	297	308
Unemployed .....	451	437	310	304	50	46	16	16
Unemployment rate .....	8.7	8.1	9.5	8.7	10.4	9.0	5.1	4.8
Not in labor force .....	1,208	1,195	678	652	185	192	90	88
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	5,700	5,921	3,485	3,670	595	634	379	394
Civilian labor force .....	4,818	5,031	3,005	3,204	454	483	306	319
Percent of population .....	84.5	85.0	86.2	87.3	76.3	76.2	80.7	81.0
Employed .....	4,444	4,680	2,755	2,966	411	443	291	304
Agriculture .....	327	327	290	299	6	4	3	4
Nonagricultural industries .....	4,118	4,353	2,465	2,667	404	439	288	300
Unemployed .....	374	351	251	237	44	40	15	15
Unemployment rate .....	7.8	7.0	8.3	7.4	9.6	8.2	5.0	4.7
Not in labor force .....	882	890	479	466	141	152	73	75
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	6,496	6,721	3,722	3,880	871	894	412	432
Civilian labor force .....	3,377	3,573	1,952	2,090	343	370	230	237
Percent of population .....	52.0	53.2	52.4	53.9	39.3	41.4	55.8	54.9
Employed .....	3,077	3,278	1,748	1,889	310	340	218	224
Agriculture .....	47	51	38	45	2	-	-	1
Nonagricultural industries .....	3,030	3,227	1,711	1,843	308	340	217	223
Unemployed .....	300	296	204	201	33	30	12	12
Unemployment rate .....	8.9	8.3	10.4	9.6	9.6	8.1	5.3	5.2
Not in labor force .....	3,119	3,147	1,770	1,790	528	524	182	195
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	5,835	6,050	3,299	3,438	783	801	393	409
Civilian labor force .....	3,112	3,281	1,779	1,886	319	342	220	226
Percent of population .....	53.3	54.2	53.9	54.9	40.7	42.7	56.0	55.3
Employed .....	2,872	3,047	1,617	1,730	293	319	210	215
Agriculture .....	45	49	36	43	2	-	-	1
Nonagricultural industries .....	2,827	2,998	1,581	1,687	290	319	209	214
Unemployed .....	241	234	162	156	26	23	10	11
Unemployment rate .....	7.7	7.1	9.1	8.3	8.3	6.7	4.5	5.0
Not in labor force .....	2,723	2,769	1,520	1,553	464	459	173	183
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	1,332	1,354	868	905	162	163	47	46
Civilian labor force .....	610	671	419	482	54	59	20	20
Percent of population .....	45.8	49.6	48.3	53.3	33.3	36.2	42.6	43.5
Employed .....	474	523	318	369	41	45	17	18
Agriculture .....	27	32	25	27	-	-	-	-
Nonagricultural industries .....	447	492	293	342	41	45	17	18
Unemployed .....	136	148	101	113	13	14	3	2
Unemployment rate .....	22.3	22.0	24.2	23.4	24.2	23.2	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	722	683	449	423	109	105	26	25

<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.

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

(In thousands)

Category	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	112,440	114,968	97,789	99,812	11,309	11,658	7,790	8,250
Men .....	62,107	63,273	54,647	55,550	5,661	5,824	4,713	4,972
Women .....	50,334	51,696	43,142	44,262	5,648	5,834	3,077	3,278
<b>OCCUPATION</b>								
Managerial and professional specialty .....	27,742	29,190	25,107	26,408	1,712	1,794	1,018	1,086
Executive, administrative, and managerial .....	13,316	14,216	12,200	13,022	741	789	509	570
Professional specialty .....	14,426	14,974	12,907	13,386	972	1,005	509	516
Technical, sales, and administrative support .....	35,082	35,532	30,949	31,178	3,099	3,239	1,969	2,064
Technicians and related support .....	3,346	3,521	2,914	3,019	283	329	130	152
Sales occupations .....	13,480	13,747	12,295	12,495	806	839	713	730
Administrative support, including clerical .....	18,256	18,264	15,740	15,664	2,010	2,071	1,126	1,182
Service occupations .....	15,054	15,332	11,916	12,105	2,614	2,698	1,369	1,560
Private household .....	934	909	703	687	211	205	120	152
Protective service .....	1,907	1,944	1,558	1,584	316	324	111	122
Service, except private household and protective .....	12,213	12,479	9,655	9,834	2,087	2,169	1,139	1,286
Precision production, craft, and repair .....	13,568	13,664	12,262	12,305	996	1,029	1,083	1,116
Mechanics and repairers .....	4,445	4,454	4,028	4,033	324	317	312	337
Construction trades .....	5,011	5,098	4,582	4,656	354	363	387	419
Other precision production, craft, and repair .....	4,112	4,112	3,652	3,616	318	349	384	360
Operators, fabricators, and laborers .....	17,486	17,814	14,340	14,665	2,659	2,672	1,890	1,975
Machine operators, assemblers, and inspectors .....	7,994	8,117	6,498	6,642	1,195	1,197	1,001	1,079
Transportation and material moving occupations .....	4,712	4,831	3,934	4,027	699	719	360	343
Handlers, equipment cleaners, helpers, and laborers .....	4,779	4,866	3,909	3,997	765	755	528	552
Construction laborers .....	766	799	627	661	123	121	106	122
Other handlers, equipment cleaners, helpers, and laborers .....	4,013	4,068	3,282	3,336	641	634	422	430
Farming, forestry, and fishing .....	3,507	3,437	3,214	3,150	229	226	461	448
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,632	1,621	1,467	1,461	128	128	339	348
Self-employed workers .....	1,423	1,398	1,370	1,356	34	26	54	55
Unpaid family workers .....	153	150	149	148	2	-	5	4
Nonagricultural industries:								
Wage and salary workers .....	100,771	103,021	86,983	88,771	10,769	11,110	6,972	7,369
Government .....	16,800	17,114	13,662	13,915	2,590	2,616	961	985
Private industries .....	83,970	85,907	73,321	74,857	8,179	8,494	6,012	6,384
Private households .....	1,208	1,153	915	869	265	261	143	177
Other industries .....	82,762	84,754	72,407	73,988	7,915	8,233	5,869	6,207
Self-employed workers .....	8,201	8,519	7,586	7,843	369	388	401	453
Unpaid family workers .....	260	260	233	232	7	6	18	21
<b>FULL- AND PART-TIME STATUS<sup>1</sup></b>								
Full-time schedules .....	91,251	93,454	79,133	80,940	9,342	9,643	6,469	6,870
Part time for economic reasons .....	5,402	5,206	4,378	4,228	861	818	579	621
Part time for noneconomic reasons .....	15,788	16,308	14,278	14,643	1,106	1,198	742	759

<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.

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	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	7,790	8,250	4,690	5,066	744	807	518	537
Men .....	4,713	4,972	2,941	3,177	433	467	300	313
Women .....	3,077	3,278	1,748	1,889	310	340	217	224
<b>OCCUPATION</b>								
Managerial and professional specialty .....	1,018	1,086	513	519	105	126	115	130
Executive, administrative, and managerial .....	509	570	259	276	51	65	64	77
Professional specialty .....	509	516	254	244	55	61	51	53
Technical, sales, and administrative support .....	1,969	2,064	1,068	1,120	219	232	181	186
Technicians and related support .....	130	152	68	78	11	18	11	11
Sales occupations .....	713	730	382	401	56	50	74	68
Administrative support, including clerical .....	1,126	1,182	618	640	151	163	96	106
Service occupations .....	1,369	1,560	793	970	132	143	61	60
Private household .....	120	152	62	81	1	3	4	3
Protective service .....	111	122	68	79	15	18	6	5
Service, except private household and protective .....	1,139	1,286	663	810	116	122	50	52
Precision production, craft, and repair .....	1,083	1,116	688	724	95	110	67	63
Mechanics and repairers .....	312	337	184	210	36	43	23	20
Construction trades .....	387	419	262	277	26	33	25	27
Other precision production, craft, and repair .....	384	360	242	237	33	34	18	15
Operators, fabricators, and laborers .....	1,890	1,975	1,224	1,326	183	191	88	95
Machine operators, assemblers, and inspectors .....	1,001	1,079	628	713	96	104	47	51
Transportation and material moving occupations .....	360	343	223	217	40	41	23	18
Handlers, equipment cleaners, helpers, and laborers .....	528	552	374	396	47	46	18	25
Construction laborers .....	106	122	84	94	5	7	2	3
Other handlers, equipment cleaners, helpers, and laborers .....	422	430	290	302	42	40	16	22
Farming, forestry, and fishing .....	461	448	403	406	10	6	6	3
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	339	348	304	321	9	3	1	3
Self-employed workers .....	54	55	42	45		1	2	2
Unpaid family workers .....	5	4	4	3				
Nonagricultural industries:								
Wage and salary workers .....	6,972	7,369	4,116	4,445	708	775	473	471
Government .....	961	985	598	608	129	140	46	55
Private industries .....	6,012	6,384	3,518	3,837	579	635	427	416
Private households .....	143	177	78	98	1	3	4	3
Other industries .....	5,869	6,207	3,440	3,739	578	632	423	413
Self-employed workers .....	401	453	214	241	27	27	39	57
Unpaid family workers .....	18	21	10	12	-	1	3	4
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	6,469	6,870	3,838	4,153	643	697	446	470
Part time for economic reasons .....	579	621	421	471	34	35	19	20
Part time for noneconomic reasons .....	742	759	431	442	67	75	53	47

<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.

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

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over .....	112,440	114,968	97,789	99,812	11,309	11,658	7,790	8,250
16 to 19 years .....	6,640	6,805	5,898	6,030	587	601	474	523
16 to 17 years .....	2,736	2,713	2,468	2,424	203	223	149	171
18 to 19 years .....	3,905	4,092	3,431	3,606	385	378	325	353
20 to 24 years .....	13,524	13,244	11,748	11,438	1,421	1,433	1,273	1,341
25 years and over .....	92,276	94,919	80,143	82,345	9,301	9,624	6,043	6,385
25 to 54 years .....	77,771	80,290	67,241	69,318	8,023	8,346	5,453	5,703
55 years and over .....	14,506	14,630	12,900	13,027	1,277	1,278	588	682
Men, 16 years and over .....	62,107	63,273	54,647	55,550	5,661	5,824	4,713	4,972
16 to 19 years .....	3,381	3,492	2,999	3,084	304	316	268	292
16 to 17 years .....	1,393	1,403	1,252	1,248	109	122	81	87
18 to 19 years .....	1,988	2,089	1,747	1,836	195	193	188	205
20 to 24 years .....	7,058	6,918	6,150	5,987	728	736	777	815
25 years and over .....	51,668	52,863	45,499	46,479	4,629	4,773	3,666	3,866
25 to 54 years .....	43,136	44,360	37,817	38,823	3,957	4,107	3,314	3,471
55 years and over .....	8,532	8,502	7,681	7,657	671	667	353	395
Women, 16 years and over .....	50,334	51,696	43,142	44,262	5,648	5,834	3,077	3,278
16 to 19 years .....	3,260	3,313	2,900	2,946	283	285	206	231
16 to 17 years .....	1,343	1,310	1,216	1,176	93	101	69	84
18 to 19 years .....	1,917	2,003	1,684	1,770	190	184	137	147
20 to 24 years .....	6,466	6,326	5,598	5,450	693	697	496	526
25 years and over .....	40,609	42,057	34,644	35,866	4,672	4,851	2,376	2,520
25 to 54 years .....	34,635	35,929	29,424	30,495	4,066	4,239	2,141	2,232
55 years and over .....	5,974	6,127	5,219	5,370	606	611	235	287

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	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over .....	6.2	5.5	5.3	4.7	13.0	11.7	8.8	8.2
16 to 19 years .....	16.9	15.3	14.4	13.1	34.7	32.4	22.3	22.0
16 to 17 years .....	19.1	17.4	16.7	15.3	39.7	35.1	27.7	27.1
18 to 19 years .....	15.2	13.8	12.7	11.6	31.6	30.7	19.5	19.3
20 to 24 years .....	9.7	8.7	8.0	7.1	21.8	19.6	10.6	9.8
25 years and over .....	4.8	4.3	4.2	3.7	9.5	8.6	7.1	6.4
25 to 54 years .....	5.0	4.5	4.4	3.9	10.1	9.2	7.2	6.5
55 years and over .....	3.3	3.1	3.0	2.8	5.3	5.0	6.1	5.8
Men, 16 years and over .....	6.2	5.5	5.4	4.7	12.7	11.7	8.7	8.1
16 to 19 years .....	17.8	16.0	15.5	13.9	34.4	32.7	22.2	22.7
16 to 17 years .....	20.2	18.2	17.9	16.1	39.0	34.4	28.2	29.5
18 to 19 years .....	16.0	14.6	13.7	12.4	31.6	31.7	19.3	19.5
20 to 24 years .....	9.9	8.9	8.4	7.4	20.3	19.4	10.2	9.2
25 years and over .....	4.8	4.2	4.2	3.7	9.4	8.4	7.2	6.5
25 to 54 years .....	5.0	4.4	4.5	3.8	9.9	8.9	7.3	6.5
55 years and over .....	3.5	3.3	3.2	3.0	6.3	5.4	6.8	6.8
Women, 16 years and over .....	6.2	5.6	5.2	4.7	13.2	11.7	8.9	8.3
16 to 19 years .....	15.9	14.4	13.4	12.3	34.9	32.0	22.4	21.0
16 to 17 years .....	18.0	16.6	15.5	14.4	40.5	35.9	27.1	24.5
18 to 19 years .....	14.3	12.9	11.7	10.8	31.7	29.6	19.9	18.9
20 to 24 years .....	9.4	8.5	7.4	6.7	23.3	19.8	11.4	10.7
25 years and over .....	4.8	4.3	4.1	3.7	9.6	8.8	6.9	6.4
25 to 54 years .....	5.1	4.6	4.3	3.9	10.3	9.4	7.2	6.6
55 years and over .....	3.0	2.8	2.8	2.5	4.3	4.5	4.9	4.3



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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>DURATION</b>								
Total, 16 years and over .....	7,425	6,701	5,501	4,944	1,684	1,547	751	732
Less than 5 weeks .....	3,246	3,084	2,468	2,332	671	656	358	367
5 to 14 weeks .....	2,196	2,007	1,621	1,468	509	476	215	217
15 weeks and over .....	1,983	1,610	1,412	1,143	504	414	178	149
15 to 26 weeks .....	943	801	684	588	224	187	93	84
27 weeks and over .....	1,040	809	728	555	281	227	86	65
Average (mean) duration, in weeks .....	14.5	13.5	14.0	12.9	16.4	15.4	12.7	11.2
Median duration, in weeks .....	6.5	5.9	6.2	5.6	7.6	6.9	5.6	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 .....	43.7	46.0	44.9	47.2	39.8	42.4	47.6	50.1
5 to 14 weeks .....	29.6	30.0	29.5	29.7	30.2	30.8	28.6	29.6
15 weeks and over .....	26.7	24.0	25.7	23.1	29.9	26.8	23.8	20.3
15 to 26 weeks .....	12.7	12.0	12.4	11.9	13.3	12.1	12.4	11.5
27 weeks and over .....	14.0	12.1	13.2	11.2	16.7	14.7	11.4	8.9

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

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

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	7,425	6,701	5,501	4,944	1,684	1,547	751	732
Job losers .....	3,566	3,092	2,704	2,338	761	674	406	371
On layoff .....	943	851	782	704	144	127	85	82
Other job losers .....	2,623	2,241	1,922	1,634	617	546	321	289
Job leavers .....	965	983	784	776	151	180	83	95
Reentrants .....	1,974	1,809	1,401	1,298	501	445	162	166
New entrants .....	920	816	613	532	271	249	99	100
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	48.0	46.1	49.1	47.2	45.2	43.6	54.1	50.7
On layoff .....	12.7	12.7	14.2	14.2	8.6	8.2	11.3	11.2
Other job losers .....	35.3	33.4	34.9	33.0	36.6	35.3	42.8	39.5
Job leavers .....	13.0	14.7	14.2	15.7	8.9	11.6	11.1	13.0
Reentrants .....	26.6	27.0	25.5	26.2	29.8	28.7	21.6	22.7
New entrants .....	12.4	12.2	11.1	10.8	16.1	16.1	13.2	13.7
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	3.0	2.5	2.7	2.3	5.9	5.1	4.8	4.1
Job leavers .....	.8	.8	.8	.7	1.2	1.4	1.0	1.1
Reentrants .....	1.6	1.5	1.4	1.2	3.9	3.4	1.9	1.8
New entrants .....	.8	.7	.6	.5	2.1	1.9	1.2	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.

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	1987	1988	Total		Employed		Unemployed			
			1987	1988	1987	1988	Number		Percent of labor force	
							1987	1988	1987	1988
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,835	7,893	7,244	7,274	6,893	6,982	351	292	4.8	4.0
30 to 44 years .....	6,202	5,907	5,920	5,626	5,622	5,389	298	237	5.0	4.2
30 to 34 years .....	922	692	872	651	792	605	80	46	9.2	7.1
35 to 39 years .....	2,610	2,163	2,495	2,060	2,374	1,968	121	92	4.8	4.5
40 to 44 years .....	2,670	3,052	2,553	2,915	2,456	2,816	97	99	3.8	3.4
45 years and over .....	1,633	1,986	1,324	1,648	1,271	1,593	53	55	4.0	3.3
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	19,454	20,421	18,416	19,292	17,549	18,493	867	799	4.7	4.1
30 to 34 years .....	8,843	9,095	8,431	8,635	8,006	8,241	425	394	5.0	4.6
35 to 39 years .....	6,221	6,827	5,881	6,456	5,623	6,206	258	250	4.4	3.9
40 to 44 years .....	4,390	4,499	4,104	4,201	3,920	4,046	184	155	4.5	3.7

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.

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	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL, 30 to 44 years</b>												
Civilian noninstitutional population .....	5,500	5,236	588	580	286	258	16,732	17,541	1,967	2,055	1,744	1,849
Civilian labor force .....	5,273	5,023	539	517	266	246	15,988	16,740	1,747	1,819	1,629	1,733
Employed .....	5,035	4,831	489	480	248	232	15,330	16,133	1,574	1,657	1,517	1,631
Unemployed .....	238	192	50	37	18	14	658	607	173	162	112	102
Unemployment rate .....	4.5	3.8	9.3	7.1	6.9	5.7	4.1	3.6	9.9	8.9	6.9	5.9
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	772	580	124	101	61	48	7,644	7,582	900	936	773	805
Civilian labor force .....	734	550	114	90	56	45	7,351	7,522	814	840	727	758
Employed .....	674	517	97	79	49	41	7,027	7,221	728	759	677	714
Unemployed .....	60	33	17	11	7	4	324	302	87	82	50	44
Unemployment rate .....	8.2	6.0	15.1	12.3	12.3	8.4	4.4	4.0	10.6	9.7	6.9	5.8
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	2,305	1,902	261	221	128	102	5,325	5,842	619	684	540	606
Civilian labor force .....	2,213	1,829	240	193	121	98	5,081	5,579	548	609	503	568
Employed .....	2,117	1,750	218	183	113	90	4,889	5,393	495	555	467	533
Unemployed .....	95	78	22	11	8	7	192	185	53	54	36	35
Unemployment rate .....	4.3	4.3	9.2	5.6	6.5	7.7	3.8	3.3	9.7	8.9	7.2	6.1
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	2,423	2,754	203	258	96	108	3,763	3,848	448	436	432	438
Civilian labor force .....	2,326	2,643	184	234	89	103	3,555	3,639	385	370	399	407
Employed .....	2,243	2,563	174	219	86	101	3,414	3,519	351	343	373	384
Unemployed .....	83	80	11	15	4	3	141	120	34	26	26	23
Unemployment rate .....	3.6	3.0	5.8	6.3	4.0	2.7	4.0	3.3	8.7	7.1	6.5	5.6

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

**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	1987					1988				
	Total families	With unemployment:			Total families	With unemployment:				
		Total	Percent of families:			Total	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 person in family employed full time
<b>TOTAL</b>										
Total families .....	64,004	5,587	29.1	70.9	61.6	64,439	5,029	28.5	71.5	62.3
With children under 18 years of age .....	31,683	3,360	31.4	68.6	59.5	31,504	2,971	31.8	68.2	59.4
Married-couple families .....	50,679	3,882	19.8	80.2	71.0	50,851	3,426	18.5	81.5	72.3
With children under 18 years of age .....	24,215	2,360	18.6	81.4	71.9	23,968	2,064	18.1	81.9	72.9
Families maintained by women .....	10,614	1,375	52.8	47.2	37.2	10,725	1,287	52.6	47.4	37.8
With children under 18 years of age .....	6,433	870	62.5	37.5	28.7	6,402	779	63.9	36.1	27.6
Families maintained by men .....	2,711	330	39.1	60.9	53.0	2,862	316	38.6	61.4	53.5
With children under 18 years of age .....	1,035	130	53.8	46.2	40.0	1,134	128	57.8	42.2	35.9
<b>White</b>										
Total families .....	55,170	4,218	26.0	74.0	64.4	55,448	3,785	25.0	75.0	65.7
With children under 18 years of age .....	26,493	2,495	27.1	72.9	63.4	26,342	2,202	26.9	73.1	64.1
Married-couple families .....	45,754	3,234	20.0	80.0	70.7	45,924	2,858	18.3	81.7	72.5
With children under 18 years of age .....	21,473	1,948	18.7	81.3	71.7	21,282	1,701	17.8	82.2	73.2
Families maintained by women .....	7,292	748	48.1	51.9	40.6	7,299	709	48.7	51.3	41.2
With children under 18 years of age .....	4,206	452	57.1	42.9	32.5	4,183	411	59.1	40.9	31.6
Families maintained by men .....	2,124	236	38.7	61.3	54.0	2,225	218	35.3	64.7	56.4
With children under 18 years of age .....	814	95	54.2	45.8	39.6	876	90	52.2	47.8	40.0
<b>Black</b>										
Total families .....	7,076	1,186	40.6	59.4	51.0	7,151	1,088	40.7	59.3	50.1
With children under 18 years of age .....	4,165	747	46.2	53.8	46.2	4,101	671	47.8	52.2	44.2
Married-couple families .....	3,543	513	19.1	80.9	72.1	3,492	454	18.5	81.5	71.7
With children under 18 years of age .....	1,911	320	17.2	82.8	74.1	1,833	286	17.8	82.2	72.4
Families maintained by women .....	3,052	589	59.3	40.7	32.6	3,143	549	57.7	42.3	33.3
With children under 18 years of age .....	2,072	397	69.3	30.7	24.2	2,051	351	69.8	30.2	22.8
Families maintained by men .....	481	84	39.8	60.2	51.8	515	85	48.2	51.8	43.5
With children under 18 years of age .....	183	29	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	218	35	71.4	28.6	25.7
<b>Hispanic origin</b>										
Total families .....	4,413	578	30.6	69.4	59.9	4,578	544	30.3	69.7	59.2
With children under 18 years of age .....	2,868	384	34.1	65.9	56.0	2,943	365	32.1	67.9	57.5
Married-couple families .....	3,095	410	24.6	75.4	65.9	3,194	388	24.0	76.0	65.2
With children under 18 years of age .....	2,041	287	25.4	74.6	64.5	2,091	279	22.9	77.1	65.9
Families maintained by women .....	1,030	124	49.6	50.4	40.0	1,060	118	50.0	50.0	39.0
With children under 18 years of age .....	720	78	60.3	39.7	29.5	732	71	60.6	39.4	31.0
Families maintained by men .....	288	44	34.1	65.9	56.8	324	39	35.9	64.1	59.0
With children under 18 years of age .....	108	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	120	15	( <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.

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

(Numbers in thousands)

Family relationship, race, and Hispanic origin	1987				1988			
	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> .....	6,130	31.3	68.7	59.4	5,482	30.6	69.4	60.2
Husbands .....	1,482	38.3	61.7	47.3	1,236	37.4	62.6	48.3
With children under 18 years of age .....	928	41.3	58.7	43.3	772	41.2	58.8	43.5
Wives .....	1,171	16.8	83.2	76.3	1,064	16.5	83.5	76.5
With children under 18 years of age .....	761	15.0	85.0	77.7	682	14.9	85.1	78.3
Relatives in married-couple families .....	1,594	11.7	88.3	82.5	1,416	10.7	89.3	83.0
Women who maintain families .....	611	84.0	16.0	9.8	543	84.0	16.0	9.5
With children under 18 years of age .....	523	90.4	9.6	4.8	463	90.2	9.8	4.5
Relatives in families maintained by women .....	921	33.4	66.6	54.1	882	32.9	67.1	55.4
Men who maintain families .....	142	63.8	36.2	26.3	142	65.6	34.4	25.5
With children under 18 years of age .....	73	87.9	12.1	6.4	76	89.1	10.9	3.9
Relatives in families maintained by men .....	209	27.2	72.8	66.0	198	23.3	76.7	69.4
<b>White</b>								
Total unemployed in families <sup>1</sup> .....	4,537	28.4	71.6	62.0	4,030	27.3	72.7	63.5
Husbands .....	1,254	39.0	61.0	45.7	1,036	37.6	62.4	47.6
With children under 18 years of age .....	772	42.5	57.5	41.1	630	41.9	58.1	42.2
Wives .....	974	16.4	83.6	77.0	882	15.6	84.4	77.9
With children under 18 years of age .....	624	14.2	85.8	78.8	553	13.6	86.4	80.1
Relatives in married-couple families .....	1,264	10.9	89.1	83.5	1,136	10.1	89.9	83.7
Women who maintain families .....	313	79.7	20.3	12.7	275	80.0	20.0	12.6
With children under 18 years of age .....	259	87.6	12.4	6.5	230	88.0	12.0	5.7
Relatives in families maintained by women .....	482	30.4	69.6	56.4	472	31.8	68.2	57.1
Men who maintain families .....	102	64.0	36.0	25.7	95	62.9	37.1	25.5
With children under 18 years of age .....	53	90.2	9.8	4.2	49	86.6	13.4	4.2
Relatives in families maintained by men .....	147	27.3	72.7	67.2	134	21.5	78.5	72.9
<b>Black</b>								
Total unemployed in families <sup>1</sup> .....	1,390	41.3	58.7	50.4	1,282	40.9	59.1	49.8
Husbands .....	173	33.7	66.3	55.7	155	35.6	64.4	52.5
With children under 18 years of age .....	115	34.1	65.9	54.8	110	36.1	63.9	51.3
Wives .....	158	19.6	80.4	72.8	143	22.2	77.8	67.8
With children under 18 years of age .....	112	19.7	80.3	72.8	103	22.1	77.9	68.0
Relatives in married-couple families .....	276	15.8	84.2	77.5	239	12.3	87.7	80.9
Women who maintain families .....	283	89.4	10.6	6.5	257	88.1	11.9	6.5
With children under 18 years of age .....	252	93.6	6.4	3.3	225	92.3	7.7	3.3
Relatives in families maintained by women .....	412	37.1	62.9	51.7	395	34.4	65.6	53.2
Men who maintain families .....	34	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	41	77.5	22.5	19.8
With children under 18 years of age .....	16	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	25	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	54	26.4	73.6	63.7	53	27.7	72.3	60.1
<b>Hispanic origin</b>								
Total unemployed in families <sup>1</sup> .....	642	32.5	67.5	58.1	614	32.0	68.0	57.7
Husbands .....	177	46.8	53.2	41.6	156	45.5	54.5	38.0
With children under 18 years of age .....	137	49.0	51.0	38.4	112	47.6	52.4	34.4
Wives .....	120	18.5	81.5	73.8	106	23.2	76.8	69.1
With children under 18 years of age .....	80	17.9	82.1	73.4	78	21.2	78.8	69.1
Relatives in married-couple families .....	166	11.1	88.9	81.2	177	12.4	87.6	80.3
Women who maintain families .....	51	75.4	24.6	17.0	44	79.0	21.0	13.3
With children under 18 years of age .....	45	82.1	17.9	11.7	38	86.9	13.1	6.9
Relatives in families maintained by women .....	83	35.3	64.7	52.3	89	31.7	68.3	56.2
Men who maintain families .....	18	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	11	( <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 .....	26	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	22	( <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.

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

(Numbers in thousands)

Family relationship, race, and Hispanic origin	1987				1988			
	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> .....	91,625	22.8	77.2	65.9	93,055	22.2	77.8	66.5
Husbands .....	38,288	30.0	70.0	51.7	38,596	29.2	70.8	52.6
With children under 18 years of age .....	22,235	31.7	68.3	46.7	22,149	31.1	68.9	47.3
Wives .....	27,207	8.9	91.1	86.2	27,784	8.4	91.6	86.7
With children under 18 years of age .....	14,811	5.2	94.8	90.7	14,915	4.7	95.3	91.4
Relatives in married-couple families .....	12,098	6.8	93.2	89.1	12,202	6.9	93.1	89.0
Women who maintain families .....	5,983	62.4	37.6	24.8	6,121	62.1	37.9	25.2
With children under 18 years of age .....	3,935	78.5	21.5	10.4	3,943	79.0	21.0	9.6
Relatives in families maintained by women .....	4,626	24.7	75.3	65.1	4,694	23.4	76.6	67.2
Men who maintain families .....	1,923	53.0	47.0	35.6	2,045	52.5	47.5	36.2
With children under 18 years of age .....	851	80.0	20.0	9.8	933	79.7	20.3	10.6
Relatives in families maintained by men .....	1,500	17.3	82.7	75.5	1,613	17.0	83.0	76.0
<b>White</b>								
Total employed in families <sup>1</sup> .....	80,036	22.2	77.8	66.0	81,180	21.6	78.4	66.8
Husbands .....	34,642	30.5	69.5	50.5	34,927	29.6	70.4	51.5
With children under 18 years of age .....	19,898	32.4	67.6	45.0	19,851	31.7	68.3	45.6
Wives .....	24,260	8.5	91.5	86.6	24,775	8.0	92.0	87.2
With children under 18 years of age .....	12,999	4.6	95.4	91.4	13,110	4.2	95.8	91.9
Relatives in married-couple families .....	10,717	6.6	93.4	89.4	10,771	6.8	93.2	89.1
Women who maintain families .....	4,278	60.2	39.8	25.7	4,348	59.5	40.5	26.4
With children under 18 years of age .....	2,781	77.2	22.8	10.1	2,761	77.4	22.6	9.7
Relatives in families maintained by women .....	3,414	25.3	74.7	64.4	3,440	23.8	76.2	66.6
Men who maintain families .....	1,544	52.7	47.3	35.3	1,638	51.3	48.7	36.7
With children under 18 years of age .....	686	79.4	20.6	9.5	744	78.0	22.0	11.2
Relatives in families maintained by men .....	1,182	16.3	83.7	76.5	1,281	16.6	83.4	76.6
<b>Black</b>								
Total employed in families <sup>1</sup> .....	8,820	28.8	71.2	62.7	8,970	28.8	71.2	62.8
Husbands .....	2,570	24.1	75.9	64.2	2,561	23.9	76.1	64.9
With children under 18 years of age .....	1,641	23.7	76.3	64.5	1,587	23.1	76.9	65.2
Wives .....	2,092	12.9	87.1	81.5	2,100	12.3	87.7	82.3
With children under 18 years of age .....	1,286	9.5	90.5	85.2	1,256	8.5	91.5	86.9
Relatives in married-couple families .....	974	8.9	91.1	86.2	987	8.7	91.3	85.8
Women who maintain families .....	1,554	69.3	30.7	21.9	1,625	69.2	30.8	21.4
With children under 18 years of age .....	1,068	82.0	18.0	10.8	1,098	82.5	17.5	9.2
Relatives in families maintained by women .....	1,081	23.6	76.4	66.7	1,124	22.9	77.1	67.9
Men who maintain families .....	303	56.9	43.1	34.9	322	59.6	40.4	32.3
With children under 18 years of age .....	139	83.9	16.1	10.1	163	86.8	13.2	7.4
Relatives in families maintained by men .....	247	23.0	77.0	69.4	252	20.6	79.4	71.4
<b>Hispanic origin</b>								
Total employed in families <sup>1</sup> .....	6,278	26.2	73.8	64.1	6,654	25.0	75.0	65.5
Husbands .....	2,458	37.3	62.7	48.9	2,592	36.4	63.6	50.3
With children under 18 years of age .....	1,778	39.3	60.7	45.8	1,853	39.5	60.5	45.9
Wives .....	1,544	8.4	91.6	85.7	1,615	7.8	92.2	86.5
With children under 18 years of age .....	1,047	7.2	92.8	87.0	1,040	6.5	93.5	88.1
Relatives in married-couple families .....	954	7.2	92.8	86.4	999	6.0	94.0	88.1
Women who maintain families .....	481	64.0	36.0	25.9	527	60.8	39.2	28.8
With children under 18 years of age .....	326	78.8	21.2	13.0	345	76.8	23.2	13.5
Relatives in families maintained by women .....	421	23.1	76.9	66.5	420	20.6	79.4	67.8
Men who maintain families .....	223	48.3	51.7	45.5	256	42.8	57.2	48.5
With children under 18 years of age .....	84	80.4	19.6	15.5	98	74.3	25.7	21.5
Relatives in families maintained by men .....	196	8.4	91.6	84.6	245	6.1	93.9	88.5

<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.

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

Type of family, number of earners, race, and Hispanic origin	Number of families		Median weekly earnings	
	1987	1988	1987	1988
<b>TOTAL</b>				
Total families with earners <sup>1</sup> .....	42,733	42,913	\$572	\$596
Married-couple families .....	33,844	33,864	637	668
One earner .....	12,668	12,365	405	418
Husband .....	9,640	9,429	477	489
Wife .....	2,272	2,199	230	238
Other family member .....	757	736	212	228
Two or more earners .....	21,176	21,499	776	811
Husband and wife .....	18,473	18,945	789	824
Husband and other family member(s) .....	1,996	1,872	749	787
Wife and other family member(s) .....	560	520	512	495
Other family members only .....	147	162	501	494
Families maintained by women .....	6,963	6,989	317	334
One earner .....	4,702	4,741	254	260
Householder .....	3,675	3,743	263	269
Other family member .....	1,027	999	215	225
Two or more earners .....	2,260	2,247	514	554
Families maintained by men .....	1,926	2,061	478	486
One earner .....	1,144	1,221	353	374
Two or more earners .....	782	840	675	700
<b>White</b>				
Total families with earners <sup>1</sup> .....	36,555	36,667	592	616
Married-couple families .....	30,095	30,135	647	677
One earner .....	11,385	11,120	416	432
Husband .....	8,784	8,609	485	497
Wife .....	1,946	1,866	231	243
Two or more earners .....	18,710	19,015	785	818
Husband and wife .....	16,332	16,768	797	831
Families maintained by women .....	4,959	4,930	329	351
Families maintained by men .....	1,501	1,602	492	496
<b>Black</b>				
Total families with earners <sup>1</sup> .....	4,942	4,999	412	435
Married-couple families .....	2,768	2,747	529	576
One earner .....	924	878	289	281
Husband .....	581	546	335	339
Wife .....	264	258	215	205
Two or more earners .....	1,843	1,870	675	713
Husband and wife .....	1,616	1,642	695	733
Families maintained by women .....	1,822	1,884	284	291
Families maintained by men .....	352	368	383	419
<b>Hispanic origin</b>				
Total families with earners <sup>1</sup> .....	3,219	3,384	425	451
Married-couple families .....	2,411	2,488	473	494
One earner .....	1,032	1,044	292	301
Husband .....	838	867	314	316
Wife .....	122	119	209	236
Two or more earners .....	1,379	1,444	615	671
Husband and wife .....	1,110	1,179	630	689
Families maintained by women .....	575	634	285	295
Families maintained by men .....	234	261	418	429

<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.

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	1987	1988	1987	1988
Married-couple families <sup>1</sup> .....	2,697	2,434	\$411	\$441
Husband unemployed .....	874	752	248	263
Wife only earner .....	668	584	229	242
Wife and other earner(s) .....	126	107	456	452
Other earner(s) only .....	80	61	180	214
Wife unemployed .....	857	804	410	436
Husband only earner .....	726	680	389	407
Husband and other earner(s) .....	115	107	662	684
Other earner(s) only .....	16	17	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	965	877	658	676
Husband or wife earner .....	385	341	507	511
Both husband and wife earners .....	534	500	794	811
Other combinations of earners .....	46	35	( <sup>2</sup> )	( <sup>2</sup> )
Families maintained by women <sup>1</sup> .....	593	559	273	281
Householder unemployed .....	87	76	195	173
Other member(s) unemployed .....	506	483	288	304
Families maintained by men <sup>1</sup> .....	184	179	357	353

<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.



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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1987	1988	1987	1988
<b>SEX AND AGE</b>				
Total, 16 years and over .....	80,836	82,692	\$373	\$385
Men, 16 years and over .....	47,162	48,049	433	449
16 to 24 years .....	6,726	6,677	257	261
25 years and over .....	40,436	41,371	477	487
Women, 16 years and over .....	33,674	34,643	303	315
16 to 24 years .....	5,526	5,444	226	235
25 years and over .....	28,148	29,199	321	335
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	30,932	30,995	487	500
Wives .....	17,496	17,907	313	324
Women who maintain families .....	4,709	4,795	300	311
Men who maintain families .....	1,508	1,615	399	413
Other persons in families:				
Men .....	6,385	6,498	263	270
Women .....	4,469	4,502	235	247
All other men <sup>1</sup> .....	8,333	8,938	405	412
All other women <sup>1</sup> .....	7,004	7,442	326	345
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	69,358	70,845	383	394
Men .....	41,150	41,831	450	465
Women .....	28,208	29,014	307	318
Black .....	9,050	9,352	301	314
Men .....	4,679	4,826	326	347
Women .....	4,371	4,527	275	288
Hispanic origin .....	6,093	6,460	284	290
Men .....	3,874	4,091	306	307
Women .....	2,219	2,370	251	260

<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.

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ANNUAL AVERAGES**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1987	1988	1987	1988
<b>SEX AND AGE</b>				
Total, 16 years and over .....	18,467	18,716	\$101	\$106
Men, 16 years and over .....	5,776	5,864	95	100
16 to 24 years .....	3,292	3,329	78	84
25 years and over .....	2,484	2,534	123	132
Women, 16 years and over .....	12,691	12,852	104	109
16 to 24 years .....	4,009	4,018	76	80
25 years and over .....	8,682	8,834	119	126
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	1,544	1,553	128	134
Wives .....	6,704	6,727	122	131
Women who maintain families .....	989	978	110	113
Men who maintain families .....	126	134	117	125
Other persons in families:				
Men .....	3,179	3,196	78	83
Women .....	3,427	3,441	71	76
All other men <sup>1</sup> .....	925	980	112	122
All other women <sup>1</sup> .....	1,572	1,707	107	108
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	16,167	16,331	102	107
Men .....	4,929	4,951	95	100
Women .....	11,238	11,380	106	110
Black .....	1,788	1,823	92	99
Men .....	650	676	91	98
Women .....	1,138	1,147	93	100
Hispanic origin .....	1,121	1,162	103	107
Men .....	441	444	104	110
Women .....	680	718	101	105

<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.

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	
	1987	1988	1987	1988
<b>TOTAL</b>				
Managerial and professional specialty .....	20,894	21,770	\$522	\$552
Executive, administrative, and managerial .....	10,216	10,725	530	547
Professional specialty .....	10,678	11,045	518	555
Technical, sales, and administrative support .....	24,680	24,931	332	347
Technicians and related support .....	2,797	2,960	429	448
Sales occupations .....	7,657	7,741	376	385
Administrative support, including clerical .....	14,226	14,230	308	318
Service occupations .....	8,314	8,669	234	245
Private household .....	321	328	133	140
Protective service .....	1,667	1,747	414	417
Service, except private household and protective .....	6,326	6,594	217	225
Precision production, craft, and repair .....	10,992	11,175	419	430
Mechanics and repairers .....	3,812	3,850	424	439
Construction trades .....	3,586	3,691	415	422
Other precision production, craft, and repair .....	3,595	3,635	418	430
Operators, fabricators, and laborers .....	14,642	14,763	308	313
Machine operators, assemblers, and inspectors .....	7,385	7,405	295	302
Transportation and material moving occupations .....	3,799	3,853	382	389
Handlers, equipment cleaners, helpers, and laborers .....	3,459	3,505	277	277
Farming, forestry, and fishing .....	1,313	1,383	217	229
<b>Men</b>				
Managerial and professional specialty .....	11,555	11,968	636	666
Executive, administrative, and managerial .....	6,117	6,238	647	682
Professional specialty .....	5,438	5,730	625	651
Technical, sales, and administrative support .....	9,241	9,267	453	472
Technicians and related support .....	1,533	1,647	500	510
Sales occupations .....	4,580	4,519	479	488
Administrative support, including clerical .....	3,128	3,101	402	418
Service occupations .....	4,143	4,317	296	299
Private household .....	16	8	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,481	1,543	427	424
Service, except private household and protective .....	2,646	2,766	251	257
Precision production, craft, and repair .....	10,125	10,249	431	446
Mechanics and repairers .....	3,681	3,713	423	441
Construction trades .....	3,548	3,622	416	423
Other precision production, craft, and repair .....	2,896	2,914	463	477
Operators, fabricators, and laborers .....	10,926	11,026	344	352
Machine operators, assemblers, and inspectors .....	4,423	4,454	353	366
Transportation and material moving occupations .....	3,612	3,636	386	394
Handlers, equipment cleaners, helpers, and laborers .....	2,890	2,936	289	287
Farming, forestry, and fishing .....	1,171	1,221	219	234
<b>Women</b>				
Managerial and professional specialty .....	9,339	9,802	441	465
Executive, administrative, and managerial .....	4,099	4,487	416	430
Professional specialty .....	5,240	5,315	458	485
Technical, sales, and administrative support .....	15,439	15,664	293	305
Technicians and related support .....	1,264	1,313	368	384
Sales occupations .....	3,077	3,222	246	264
Administrative support, including clerical .....	11,098	11,129	294	305
Service occupations .....	4,171	4,352	199	208
Private household .....	305	320	130	139
Protective service .....	186	204	314	347
Service, except private household and protective .....	3,680	3,828	201	210
Precision production, craft, and repair .....	867	926	302	302
Mechanics and repairers .....	131	137	456	392
Construction trades .....	38	69	( <sup>1</sup> )	335
Other precision production, craft, and repair .....	699	721	286	284
Operators, fabricators, and laborers .....	3,716	3,737	231	238
Machine operators, assemblers, and inspectors .....	2,962	2,952	227	236
Transportation and material moving occupations .....	186	216	299	286
Handlers, equipment cleaners, helpers, and laborers .....	568	569	233	237
Farming, forestry, and fishing .....	142	161	191	201

<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					
	1987	1988	Total		Central cities		Suburbs	
			1987	1988	1987	1988	1987	1988
<b>TOTAL</b>								
Civilian noninstitutional population .....	182,753	184,613	142,319	143,903	56,993	57,165	85,325	86,737
Civilian labor force .....	119,865	121,669	94,764	96,260	36,714	37,035	58,050	59,225
Percent of population .....	65.6	65.9	66.6	66.9	64.4	64.8	68.0	68.3
Employed .....	112,440	114,968	89,138	91,141	33,975	34,541	55,163	56,600
Unemployed .....	7,425	6,701	5,625	5,119	2,739	2,495	2,887	2,624
Unemployment rate .....	6.2	5.5	5.9	5.3	7.5	6.7	5.0	4.4
Not in labor force .....	62,888	62,944	47,555	47,643	20,280	20,130	27,275	27,513
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	79,565	80,553	61,907	62,774	24,412	24,548	37,495	38,226
Civilian labor force .....	62,095	62,768	48,963	49,563	18,738	18,805	30,225	30,758
Percent of population .....	78.0	77.9	79.1	79.0	76.8	76.6	80.6	80.5
Employed .....	58,726	59,781	46,407	47,288	17,460	17,676	28,947	29,612
Unemployed .....	3,369	2,987	2,556	2,275	1,277	1,128	1,278	1,146
Unemployment rate .....	5.4	4.8	5.2	4.6	6.8	6.0	4.2	3.7
Not in labor force .....	17,470	17,785	12,945	13,211	5,675	5,743	7,270	7,468
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	88,583	89,532	69,087	69,878	28,302	28,347	40,785	41,530
Civilian labor force .....	49,783	50,870	39,553	40,444	15,798	16,030	23,755	24,414
Percent of population .....	56.2	56.8	57.3	57.9	55.8	56.5	58.2	58.8
Employed .....	47,074	48,383	37,490	38,535	14,783	15,086	22,706	23,450
Unemployed .....	2,709	2,487	2,063	1,909	1,015	944	1,048	964
Unemployment rate .....	5.4	4.9	5.2	4.7	6.4	5.9	4.4	4.0
Not in labor force .....	38,800	38,662	29,535	29,434	12,504	12,318	17,031	17,116
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,606	14,527	11,324	11,251	4,279	4,270	7,045	6,981
Civilian labor force .....	7,988	8,031	6,248	6,253	2,178	2,201	4,070	4,052
Percent of population .....	54.7	55.3	55.2	55.6	50.9	51.5	57.8	58.0
Employed .....	6,640	6,805	5,242	5,317	1,732	1,779	3,510	3,539
Unemployed .....	1,347	1,226	1,007	936	446	422	560	514
Unemployment rate .....	16.9	15.3	16.1	15.0	20.5	19.2	13.8	12.7
Not in labor force .....	6,618	6,497	5,075	4,998	2,101	2,069	2,974	2,929
<b>White</b>								
Civilian noninstitutional population .....	156,958	158,194	120,750	121,733	42,719	42,763	78,031	78,969
Civilian labor force .....	103,290	104,756	80,681	81,786	27,787	27,980	52,894	53,806
Percent of population .....	65.8	66.2	66.8	67.2	65.0	65.4	67.8	68.1
Employed .....	97,789	99,812	76,631	78,117	26,184	26,508	50,448	51,609
Unemployed .....	5,501	4,944	4,049	3,669	1,603	1,472	2,446	2,197
Unemployment rate .....	5.3	4.7	5.0	4.5	5.8	5.3	4.6	4.1
Not in labor force .....	53,669	53,439	40,069	39,947	14,932	14,783	25,137	25,164
<b>Black</b>								
Civilian noninstitutional population .....	20,352	20,692	16,862	17,157	11,889	11,863	4,973	5,294
Civilian labor force .....	12,993	13,205	10,926	11,170	7,384	7,408	3,543	3,762
Percent of population .....	63.8	63.8	64.8	65.1	62.1	62.4	71.2	71.1
Employed .....	11,309	11,658	9,531	9,883	6,348	6,472	3,183	3,410
Unemployed .....	1,684	1,547	1,396	1,287	1,036	935	360	352
Unemployment rate .....	13.0	11.7	12.8	11.5	14.0	12.6	10.2	9.4
Not in labor force .....	7,359	7,487	5,936	5,987	4,505	4,455	1,431	1,532
<b>Hispanic origin</b>								
Civilian noninstitutional population .....	12,867	13,325	11,934	12,364	6,900	7,116	5,033	5,248
Civilian labor force .....	8,541	8,982	7,930	8,326	4,417	4,628	3,513	3,698
Percent of population .....	66.4	67.4	66.4	67.3	64.0	65.0	69.8	70.5
Employed .....	7,790	8,250	7,256	7,676	3,994	4,224	3,262	3,452
Unemployed .....	751	732	674	650	423	404	251	246
Unemployment rate .....	8.8	8.2	8.5	7.8	9.6	8.7	7.1	6.7
Not in labor force .....	4,327	4,342	4,004	4,038	2,483	2,489	1,520	1,549

**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		1987	1988	1987	1988
	1987	1988	1987	1988	1987	1988				
<b>TOTAL</b>										
Civilian noninstitutional population .....	40,434	40,710	2,880	2,838	37,554	37,872	134,575	135,748	48,178	48,865
Civilian labor force .....	25,101	25,409	2,002	2,000	23,099	23,409	88,812	90,006	31,053	31,663
Percent of population .....	62.1	62.4	69.5	70.5	61.5	61.8	66.0	66.3	64.5	64.8
Employed .....	23,302	23,827	1,953	1,960	21,349	21,868	83,271	84,985	29,170	29,983
Unemployed .....	1,799	1,582	49	40	1,750	1,541	5,541	5,021	1,884	1,680
Unemployment rate .....	7.2	6.2	2.5	2.0	7.6	6.6	6.2	5.6	6.1	5.3
Not in labor force .....	15,332	15,301	878	838	14,455	14,463	45,763	45,742	17,125	17,202
<b>Men, 20 years and over</b>										
Civilian noninstitutional population .....	17,646	17,771	1,367	1,358	16,279	16,414	57,947	58,655	21,606	21,890
Civilian labor force .....	13,126	13,200	1,152	1,139	11,974	12,060	45,430	45,921	16,659	16,841
Percent of population .....	74.4	74.3	84.3	83.9	73.6	73.5	78.4	78.3	77.1	76.9
Employed .....	12,313	12,488	1,133	1,123	11,180	11,364	42,938	43,685	15,782	16,091
Unemployed .....	813	712	19	16	794	696	2,492	2,236	877	750
Unemployment rate .....	6.2	5.4	1.6	1.4	6.6	5.8	5.5	4.9	5.3	4.5
Not in labor force .....	4,519	4,571	215	218	4,305	4,353	12,517	12,734	4,947	5,048
<b>Women, 20 years and over</b>										
Civilian noninstitutional population .....	19,506	19,662	1,269	1,239	18,237	18,424	66,109	66,697	22,485	22,843
Civilian labor force .....	10,236	10,432	704	711	9,532	9,720	37,591	38,343	12,198	12,532
Percent of population .....	52.5	53.1	55.5	57.4	52.3	52.8	56.9	57.5	54.2	54.9
Employed .....	9,591	9,852	686	697	8,905	9,155	35,544	36,468	11,536	11,920
Unemployed .....	645	579	18	14	627	566	2,047	1,876	662	612
Unemployment rate .....	6.3	5.6	2.6	1.9	6.6	5.8	5.4	4.9	5.4	4.9
Not in labor force .....	9,270	9,231	565	527	8,705	8,703	28,518	28,354	10,287	10,310
<b>Both sexes, 16 to 19 years</b>										
Civilian noninstitutional population .....	3,282	3,276	244	242	3,038	3,034	10,519	10,395	4,086	4,132
Civilian labor force .....	1,739	1,778	146	149	1,594	1,628	5,791	5,741	2,196	2,289
Percent of population .....	53.0	54.3	59.8	61.7	52.4	53.7	55.1	55.2	53.7	55.4
Employed .....	1,398	1,487	134	139	1,265	1,348	4,789	4,832	1,851	1,972
Unemployed .....	341	290	12	10	329	280	1,003	909	345	317
Unemployment rate .....	19.6	16.3	8.2	7.0	20.6	17.2	17.3	15.8	15.7	13.8
Not in labor force .....	1,543	1,499	98	93	1,445	1,406	4,728	4,654	1,890	1,843
<b>White</b>										
Civilian noninstitutional population .....	36,208	36,462	2,790	2,767	33,418	33,695	112,376	112,907	44,582	45,288
Civilian labor force .....	22,609	22,969	1,944	1,956	20,665	21,013	74,425	75,219	28,864	29,536
Percent of population .....	62.4	63.0	69.7	70.7	61.8	62.4	66.2	66.6	64.7	65.2
Employed .....	21,157	21,695	1,901	1,919	19,257	19,776	70,538	71,727	27,251	28,085
Unemployed .....	1,451	1,275	43	37	1,408	1,238	3,887	3,493	1,614	1,451
Unemployment rate .....	6.4	5.5	2.2	1.9	6.8	5.9	5.2	4.6	5.6	4.9
Not in labor force .....	13,600	13,492	846	810	12,753	12,682	37,951	37,687	15,718	15,751
<b>Black</b>										
Civilian noninstitutional population .....	3,489	3,536	77	57	3,412	3,479	17,475	17,800	2,876	2,893
Civilian labor force .....	2,067	2,035	49	35	2,017	2,000	11,249	11,477	1,744	1,728
Percent of population .....	59.2	57.6	64.0	61.8	59.1	57.5	64.4	64.5	60.6	59.7
Employed .....	1,778	1,775	44	32	1,734	1,743	9,777	10,118	1,532	1,540
Unemployed .....	289	260	5	3	283	257	1,472	1,358	212	188
Unemployment rate .....	14.0	12.8	11.0	7.6	14.0	12.8	13.1	11.8	12.2	10.9
Not in labor force .....	1,423	1,500	28	22	1,395	1,479	6,226	6,323	1,132	1,164
<b>Hispanic origin</b>										
Civilian noninstitutional population .....	934	960	51	42	883	919	11,896	12,248	972	1,076
Civilian labor force .....	611	656	36	30	575	627	7,882	8,252	658	730
Percent of population .....	65.4	68.3	70.2	70.6	65.1	68.2	66.3	67.4	67.7	67.9
Employed .....	534	574	34	26	500	548	7,194	7,591	596	659
Unemployed .....	77	83	2	4	75	79	688	661	63	71
Unemployment rate .....	12.6	12.6	4.3	( <sup>1</sup> )	13.1	12.6	8.7	8.0	9.5	9.7
Not in labor force .....	323	304	15	12	308	292	4,013	3,996	314	346

<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	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
<b>TOTAL</b>												
Civilian noninstitutional population .....	27,554	27,479	155,199	157,134	18,382	18,182	123,937	125,720	9,172	9,296	31,262	31,414
Civilian labor force .....	15,643	15,748	104,222	105,921	10,340	10,372	84,423	85,888	5,302	5,376	19,799	20,033
Percent of population .....	56.8	57.3	67.2	67.4	56.3	57.0	68.1	68.3	57.8	57.8	63.3	63.8
Employed .....	13,842	14,089	98,599	100,879	9,070	9,188	80,068	81,953	4,771	4,901	18,531	18,926
Unemployed .....	1,801	1,658	5,623	5,042	1,270	1,184	4,355	3,935	531	475	1,268	1,107
Unemployment rate .....	11.5	10.5	5.4	4.8	12.3	11.4	5.2	4.6	10.0	8.8	6.4	5.5
Men, 20 years and over .....	10.3	9.3	4.7	4.1	11.3	10.3	4.5	3.9	8.5	7.4	5.6	4.9
Women, 20 years and over .....	10.2	9.4	4.7	4.2	10.7	10.1	4.5	4.1	9.0	8.1	5.6	4.9
Both sexes, 16 to 19 years .....	28.6	26.8	15.1	13.5	28.7	28.0	14.5	13.3	28.4	24.6	17.4	14.2
Men .....	28.9	26.9	16.0	14.2	29.3	29.1	15.6	14.3	28.0	22.7	17.7	13.9
Women .....	28.3	26.7	14.0	12.7	28.0	26.5	13.3	12.3	28.9	27.0	17.0	14.5
Not in labor force .....	11,911	11,731	50,977	51,213	8,042	7,810	39,514	39,832	3,869	3,920	11,463	11,381
<b>White</b>												
Civilian noninstitutional population .....	16,652	16,551	140,306	141,643	9,943	9,768	110,807	111,965	6,709	6,784	29,499	29,678
Civilian labor force .....	9,614	9,731	93,676	95,025	5,693	5,712	74,988	76,074	3,921	4,019	18,688	18,951
Percent of population .....	57.7	58.8	66.8	67.1	57.3	58.5	67.7	67.9	58.4	59.2	63.4	63.9
Employed .....	8,776	8,967	89,013	90,845	5,154	5,220	71,478	72,897	3,622	3,747	17,536	17,948
Unemployed .....	838	764	4,663	4,179	539	492	3,510	3,177	299	272	1,152	1,003
Unemployment rate .....	8.7	7.9	5.0	4.4	9.5	8.6	4.7	4.2	7.6	6.8	6.2	5.3
Men, 20 years and over .....	8.1	7.0	4.4	3.8	8.8	8.0	4.2	3.6	7.0	5.5	5.4	4.7
Women, 20 years and over .....	7.4	6.9	4.3	3.8	8.1	7.4	4.0	3.6	6.4	6.2	5.3	4.6
Both sexes, 16 to 19 years .....	21.4	20.2	13.7	12.4	21.9	20.2	12.9	12.1	20.6	20.3	16.8	13.5
Men .....	22.4	20.6	14.7	13.1	23.7	21.5	14.0	13.1	20.2	19.3	17.1	13.4
Women .....	20.2	19.7	12.7	11.6	19.7	18.4	11.7	11.0	21.1	21.7	16.5	13.6
Not in labor force .....	7,038	6,820	46,630	46,619	4,250	4,055	35,819	35,891	2,789	2,765	10,811	10,727
<b>Black</b>												
Civilian noninstitutional population .....	9,878	9,817	10,474	10,875	7,732	7,611	9,130	9,546	2,146	2,206	1,343	1,329
Civilian labor force .....	5,468	5,418	7,525	7,787	4,264	4,222	6,662	6,948	1,204	1,196	863	839
Percent of population .....	55.4	55.2	71.8	71.6	55.2	55.5	73.0	72.8	56.1	54.2	64.2	63.1
Employed .....	4,572	4,588	6,737	7,070	3,566	3,568	5,965	6,314	1,006	1,020	772	756
Unemployed .....	896	829	788	717	699	654	697	633	198	176	91	84
Unemployment rate .....	16.4	15.3	10.5	9.2	16.4	15.5	10.5	9.1	16.4	14.7	10.5	10.0
Men, 20 years and over .....	14.9	13.9	8.4	7.5	15.6	14.3	8.4	7.5	12.4	12.4	7.7	7.9
Women, 20 years and over .....	14.3	13.3	9.7	8.3	13.9	13.2	9.6	8.2	15.5	13.6	10.6	9.0
Both sexes, 16 to 19 years .....	40.3	38.7	30.4	27.8	38.1	39.0	30.8	27.4	47.4	37.8	27.8	30.5
Men .....	40.6	39.0	30.3	28.2	38.6	40.5	30.4	28.3	46.4	33.6	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	40.0	38.4	30.7	27.3	37.7	37.2	31.3	26.4	48.5	42.5	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	4,410	4,399	2,949	3,088	3,468	3,389	2,468	2,598	942	1,010	480	490
<b>Hispanic origin</b>												
Civilian noninstitutional population .....	4,464	4,553	8,403	8,771	4,103	4,193	7,830	8,171	361	361	573	600
Civilian labor force .....	2,596	2,734	5,945	6,249	2,380	2,500	5,550	5,826	216	234	395	422
Percent of population .....	58.1	60.0	70.7	71.2	58.0	59.6	70.9	71.3	59.8	65.0	68.9	70.4
Employed .....	2,298	2,445	5,492	5,805	2,116	2,239	5,140	5,437	182	205	352	368
Unemployed .....	298	289	453	443	264	260	410	389	34	29	43	54
Unemployment rate .....	11.5	10.6	7.6	7.1	11.1	10.4	7.4	6.7	15.7	12.3	10.9	12.8
Men, 20 years and over .....	10.3	9.3	6.6	5.9	10.1	9.2	6.3	5.5	12.7	9.6	10.6	11.7
Women, 20 years and over .....	10.3	9.5	6.7	6.2	9.8	9.4	6.6	5.9	16.3	11.0	8.6	10.9
Both sexes, 16 to 19 years .....	23.9	24.0	21.4	21.0	23.0	23.0	21.1	20.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	22.7	24.3	21.9	21.8	22.0	23.0	21.6	21.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	25.6	23.6	20.8	19.9	24.7	22.9	20.6	18.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	1,869	1,820	2,458	2,523	1,723	1,693	2,280	2,345	145	126	178	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.

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	1987					1988				
	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 .....	99,303	16,913	17.0	19,051	19.2	101,407	17,002	16.8	19,241	19.0
16 to 24 years .....	19,553	1,299	6.6	1,538	7.9	19,469	1,206	6.2	1,457	7.5
25 years and over .....	79,749	15,614	19.6	17,513	22.0	81,938	15,795	19.3	17,784	21.7
25 to 34 years .....	30,197	4,752	15.7	5,436	18.0	30,688	4,578	14.9	5,223	17.0
35 to 44 years .....	23,443	5,080	21.7	5,664	24.2	24,382	5,178	21.2	5,858	24.0
45 to 54 years .....	14,718	3,442	23.4	3,821	26.0	15,468	3,706	24.0	4,107	26.6
55 to 65 years .....	9,349	2,142	22.9	2,367	25.3	9,237	2,139	23.2	2,371	25.7
65 years and over .....	2,042	198	9.7	224	11.0	2,162	194	9.0	225	10.4
Men, 16 years and over .....	52,938	11,071	20.9	12,144	22.9	53,912	11,019	20.4	12,132	22.5
16 to 24 years .....	10,018	860	8.6	991	9.9	10,007	768	7.7	911	9.1
25 years and over .....	42,920	10,211	23.8	11,153	26.0	43,905	10,251	23.3	11,221	25.6
25 to 34 years .....	16,517	3,112	18.8	3,460	20.9	16,767	3,027	18.1	3,355	20.0
35 to 44 years .....	12,365	3,295	26.6	3,579	28.9	12,831	3,323	25.9	3,632	28.3
45 to 54 years .....	7,804	2,258	28.9	2,442	31.3	8,154	2,383	29.2	2,571	31.5
55 to 65 years .....	5,139	1,435	27.9	1,548	30.1	5,021	1,409	28.1	1,539	30.7
65 years and over .....	1,094	111	10.2	124	11.4	1,132	108	9.6	124	11.0
Women, 16 years and over .....	46,365	5,842	12.6	6,907	14.9	47,495	5,982	12.6	7,109	15.0
16 to 24 years .....	9,536	440	4.6	547	5.7	9,463	438	4.6	546	5.8
25 years and over .....	36,829	5,402	14.7	6,360	17.3	38,033	5,544	14.6	6,563	17.3
25 to 34 years .....	13,680	1,640	12.0	1,976	14.4	13,921	1,551	11.1	1,868	13.4
35 to 44 years .....	11,079	1,786	16.1	2,086	18.8	11,551	1,855	16.1	2,226	19.3
45 to 54 years .....	6,914	1,183	17.1	1,379	19.9	7,314	1,323	18.1	1,537	21.0
55 to 65 years .....	4,209	707	16.8	819	19.5	4,216	730	17.3	832	19.7
65 years and over .....	947	87	9.1	100	10.6	1,030	85	8.3	100	9.7
<b>RACE, HISPANIC ORIGIN, AND SEX</b>										
White, 16 years and over .....	85,525	13,972	16.3	15,712	18.4	87,176	13,932	16.0	15,759	18.1
Men .....	46,079	9,407	20.4	10,288	22.3	46,783	9,294	19.9	10,210	21.8
Women .....	39,446	4,565	11.6	5,424	13.8	40,393	4,638	11.5	5,549	13.7
Black, 16 years and over .....	10,838	2,445	22.6	2,769	25.5	11,176	2,559	22.9	2,898	25.9
Men .....	5,329	1,381	25.9	1,531	28.7	5,502	1,438	26.1	1,601	29.1
Women .....	5,509	1,065	19.3	1,238	22.5	5,674	1,121	19.8	1,297	22.9
Hispanic origin, 16 years and over .....	7,215	1,234	17.1	1,371	19.0	7,623	1,220	16.0	1,353	17.7
Men .....	4,315	859	19.9	938	21.7	4,535	837	18.5	913	20.1
Women .....	2,900	374	12.9	434	15.0	3,088	384	12.4	440	14.3
<b>FULL- OR PART-TIME STATUS<sup>3</sup></b>										
Full-time workers .....	80,836	15,670	19.4	17,567	21.7	82,692	15,773	19.1	17,753	21.5
Part-time workers .....	18,467	1,243	6.7	1,484	8.0	18,716	1,229	6.6	1,488	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.

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

(Numbers in thousands)

Occupation and industry	1987					1988				
	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 .....	23,378	3,512	15.0	4,286	18.3	24,369	3,644	15.0	4,470	18.3
Executive, administrative, and managerial .....	10,770	726	6.7	944	8.8	11,337	734	6.5	977	8.6
Professional specialty .....	12,607	2,786	22.1	3,342	26.5	13,032	2,910	22.3	3,493	26.8
Technical, sales, and administrative support .....	31,801	3,265	10.3	3,868	12.2	32,271	3,312	10.3	3,976	12.3
Technicians and related support .....	3,243	341	10.5	412	12.7	3,462	391	11.3	469	13.5
Sales occupations .....	10,860	612	5.6	691	6.4	11,019	587	5.3	689	6.2
Administrative support, including clerical .....	17,698	2,311	13.1	2,765	15.6	17,790	2,333	13.1	2,818	15.8
Service occupations .....	13,876	1,953	14.1	2,187	15.8	14,178	1,989	14.0	2,225	15.7
Protective service .....	1,909	725	38.0	795	41.7	1,969	765	38.9	839	42.6
Service, except protective service .....	11,967	1,228	10.3	1,392	11.6	12,209	1,224	10.0	1,387	11.4
Precision production, craft and repair .....	11,567	3,132	27.1	3,364	29.1	11,766	3,164	26.9	3,374	28.7
Operators, fabricators, and laborers .....	16,920	4,956	29.3	5,234	30.9	17,010	4,815	28.3	5,105	30.0
Machine operators, assemblers, and inspectors .....	7,882	2,423	30.7	2,538	32.2	7,879	2,327	29.5	2,453	31.1
Transportation and material moving occupations .....	4,351	1,349	31.0	1,430	32.9	4,418	1,330	30.1	1,407	31.8
Handlers, equipment cleaners, helpers, and laborers .....	4,686	1,183	25.2	1,266	27.0	4,713	1,158	24.6	1,245	26.4
Farming, forestry, and fishing .....	1,763	96	5.4	113	6.4	1,813	77	4.2	91	5.0
<b>INDUSTRY</b>										
Agricultural wage and salary workers .....	1,469	33	2.2	37	2.5	1,492	30	2.0	35	2.4
Private nonagricultural wage and salary workers .....	80,993	10,826	13.4	11,850	14.6	82,741	10,674	12.9	11,723	14.2
Mining .....	782	143	18.3	153	19.5	711	133	18.7	146	20.5
Construction .....	5,052	1,060	21.0	1,123	22.2	5,193	1,096	21.1	1,151	22.2
Manufacturing .....	20,235	4,691	23.2	5,008	24.7	20,430	4,516	22.1	4,854	23.8
Durable goods .....	12,005	2,969	24.7	3,162	26.3	12,170	2,875	23.6	3,095	25.4
Nondurable goods .....	8,231	1,722	20.9	1,846	22.4	8,260	1,641	19.9	1,759	21.3
Transportation and public utilities .....	5,819	1,947	33.5	2,106	36.2	6,053	2,001	33.1	2,144	35.4
Transportation .....	3,274	1,051	32.1	1,113	34.0	3,412	1,104	32.3	1,153	33.8
Communications and public utilities .....	2,545	897	35.2	993	39.0	2,640	897	34.0	992	37.6
Wholesale and retail trade .....	20,401	1,440	7.1	1,572	7.7	20,597	1,386	6.7	1,559	7.6
Wholesale trade .....	3,935	330	8.4	359	9.1	3,873	290	7.5	336	8.7
Retail trade .....	16,466	1,110	6.7	1,213	7.4	16,724	1,095	6.6	1,223	7.3
Finance, insurance, and real estate .....	6,738	158	2.3	217	3.2	6,812	178	2.6	238	3.5
Services .....	21,965	1,387	6.3	1,673	7.6	22,944	1,365	5.9	1,631	7.1
Government workers .....	16,841	6,055	36.0	7,164	42.5	17,175	6,298	36.7	7,483	43.6

<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.



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	1987				1988			
	Total	Members of unions <sup>1</sup>	Repre- sented by unions <sup>2</sup>	Non- union	Total	Members of unions <sup>1</sup>	Repre- sented by unions <sup>2</sup>	Non- union
<b>SEX AND AGE</b>								
Total, 16 years and over .....	\$373	\$465	\$459	\$342	\$385	\$480	\$476	\$356
16 to 24 years .....	242	318	312	235	249	312	309	242
25 years and over .....	403	475	472	380	414	487	485	391
25 to 34 years .....	373	436	430	354	383	453	447	365
35 to 44 years .....	435	493	490	409	449	504	501	419
45 to 54 years .....	429	492	492	400	452	507	505	415
55 to 65 years .....	405	462	463	381	419	479	479	394
65 years and over .....	310	404	406	283	323	451	437	298
Men, 16 years and over .....	433	494	493	406	449	506	505	416
16 to 24 years .....	257	340	332	247	261	329	325	253
25 years and over .....	477	501	500	456	487	514	513	471
25 to 34 years .....	411	471	466	395	420	479	477	405
35 to 44 years .....	510	516	514	506	517	529	528	511
45 to 54 years .....	519	519	520	519	549	546	548	550
55 to 65 years .....	495	498	500	490	508	513	515	502
65 years and over .....	380	455	452	341	394	494	483	361
Women, 16 years and over .....	303	388	385	288	315	403	399	300
16 to 24 years .....	226	286	283	222	235	281	280	232
25 years and over .....	321	395	393	306	335	411	409	317
25 to 34 years .....	316	383	379	306	326	400	396	316
35 to 44 years .....	336	423	419	315	353	436	431	329
45 to 54 years .....	324	397	397	306	339	414	414	316
55 to 65 years .....	308	363	371	291	317	387	384	300
65 years and over .....	260	341	342	241	279	366	369	254
<b>RACE, HISPANIC ORIGIN, AND SEX</b>								
White, 16 years and over .....	383	477	474	355	394	488	484	368
Men .....	450	501	500	419	465	513	512	432
Women .....	307	394	392	293	318	410	406	305
Black, 16 years and over .....	301	399	395	268	314	417	413	279
Men .....	326	423	420	288	347	458	455	298
Women .....	275	357	355	251	288	374	369	263
Hispanic origin, 16 years and over .....	284	395	392	261	290	400	397	270
Men .....	306	418	417	276	307	431	430	283
Women .....	251	311	311	239	260	328	325	249

<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-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.

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

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

Occupation and industry	1987				1988			
	Total	Members of unions <sup>1</sup>	Repre- sented by unions <sup>2</sup>	Non-union	Total	Members of unions <sup>1</sup>	Repre- sented by unions <sup>2</sup>	Non-union
<b>OCCUPATION</b>								
Managerial and professional specialty .....	\$522	\$521	\$519	\$523	\$552	\$559	\$550	\$552
Executive, administrative, and managerial .....	530	530	532	530	547	578	578	543
Professional specialty .....	518	519	516	520	555	554	543	561
Technical, sales, and administrative support .....	332	413	407	319	347	424	417	333
Technicians and related support .....	429	495	492	420	448	492	494	437
Sales occupations .....	376	389	391	374	385	407	405	383
Administrative support, including clerical .....	308	409	401	294	318	417	408	306
Service occupations .....	234	375	370	209	245	389	384	218
Protective service .....	414	508	505	318	417	514	513	314
Service, except protective service .....	213	306	303	200	221	312	308	209
Precision production, craft and repair .....	419	521	517	378	430	536	531	388
Operators, fabricators, and laborers .....	308	420	416	268	313	436	429	273
Machine operators, assemblers, and inspectors .....	295	397	393	258	302	416	412	265
Transportation and material moving occupations .....	382	493	489	320	389	505	500	329
Handlers, equipment cleaners, helpers, and laborers .....	277	398	395	239	277	404	399	238
Farming, forestry, and fishing .....	217	373	369	210	229	358	357	222
<b>INDUSTRY</b>								
Agricultural wage and salary workers .....	219	( <sup>3</sup> )	( <sup>3</sup> )	217	230	( <sup>3</sup> )	( <sup>3</sup> )	226
Private nonagricultural wage and salary workers .....	362	\$458	\$452	339	375	\$474	\$468	353
Mining .....	514	532	528	506	525	528	523	526
Construction .....	397	594	585	351	405	603	598	359
Manufacturing .....	389	426	424	370	402	443	440	385
Durable goods .....	413	448	447	398	426	464	461	412
Nondurable goods .....	344	399	396	322	359	407	405	341
Transportation and public utilities .....	482	519	516	432	489	530	525	446
Transportation .....	441	522	520	383	454	546	543	394
Communications and public utilities .....	515	516	512	520	518	517	513	525
Wholesale and retail trade .....	292	397	394	285	301	405	401	294
Wholesale trade .....	393	437	436	386	397	445	448	391
Retail trade .....	262	373	367	255	273	386	381	266
Finance, insurance, and real estate .....	373	363	369	373	391	390	384	391
Services .....	327	375	375	322	340	389	388	335
Government workers .....	424	475	470	388	444	489	485	397

<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	1985	1986	1987	1988 <sup>p</sup>
<b>Total</b> .....	97,519	99,525	102,310	106,037
<b>Total private</b> .....	81,125	82,832	85,295	88,648
<b>Goods-producing</b> .....	24,859	24,558	24,784	25,564
<b>Mining</b> .....	927	777	721	733
Oil and gas extraction .....	582.9	450.5	405.2	417.1
<b>Construction</b> .....	4,673	4,816	4,998	5,292
General building contractors .....	1,252.5	1,290.8	1,326.2	1,395.9
<b>Manufacturing</b> .....	19,260	18,965	19,065	19,540
<b>Durable goods</b> .....	11,490	11,230	11,218	11,518
Lumber and wood products .....	697.3	710.3	739.6	758.3
Furniture and fixtures .....	493.5	498.2	518.2	537.6
Stone, clay, and glass products .....	588.1	585.1	582.2	587.0
Primary metal industries .....	808.0	751.7	749.4	782.1
Blast furnaces and basic steel products .....	302.6	273.5	269.4	280.9
Fabricated metal products .....	1,465.3	1,423.3	1,407.4	1,455.1
Machinery, except electrical .....	2,174.3	2,052.8	2,023.4	2,138.2
Electrical and electronic equipment .....	2,197.2	2,116.3	2,084.1	2,121.0
Transportation equipment .....	1,979.6	2,025.1	2,048.2	2,042.2
Motor vehicles and equipment .....	883.5	872.4	864.8	849.9
Instruments and related products .....	720.1	706.2	696.3	712.9
Miscellaneous manufacturing .....	367.0	361.3	369.6	382.9
<b>Nondurable goods</b> .....	7,770	7,734	7,847	8,022
Food and kindred products .....	1,602.5	1,609.3	1,623.9	1,645.6
Tobacco manufactures .....	63.9	58.6	54.3	52.8
Textile mill products .....	702.3	703.2	724.5	725.9
Apparel and other textile products .....	1,121.3	1,100.8	1,099.9	1,096.5
Paper and allied products .....	677.7	673.7	679.0	689.1
Printing and publishing .....	1,427.8	1,458.5	1,507.2	1,564.5
Chemicals and allied products .....	1,044.1	1,021.8	1,025.6	1,062.9
Petroleum and coal products .....	179.3	168.8	165.3	166.8
Rubber and misc. plastics products .....	785.6	790.3	823.1	872.4
Leather and leather products .....	165.0	149.1	143.7	145.9
<b>Service-producing</b> .....	72,660	74,967	77,525	80,473
<b>Transportation and public utilities</b> .....	5,238	5,255	5,385	5,581
Transportation .....	3,003	3,058	3,166	3,334
Communication and public utilities .....	2,235	2,197	2,218	2,248
<b>Wholesale trade</b> .....	5,717	5,753	5,872	6,156
Durable goods .....	3,388	3,383	3,449	3,667
Nondurable goods .....	2,329	2,370	2,423	2,489
<b>Retail trade</b> .....	17,356	17,930	18,509	19,205
General merchandise stores .....	2,323.8	2,365.7	2,432.4	2,540.2
Food stores .....	2,775.4	2,898.9	2,957.4	3,088.4
Automotive dealers and service stations .....	1,890.0	1,943.6	2,004.1	2,078.7
Eating and drinking places .....	5,709.2	5,916.2	6,127.4	6,360.0
<b>Finance, insurance, and real estate</b> .....	5,955	6,283	6,549	6,678
Finance .....	2,977	3,149	3,275	3,305
Insurance .....	1,833	1,939	2,022	2,074
Real estate .....	1,146	1,195	1,252	1,299
<b>Services</b> .....	22,000	23,053	24,196	25,463
Business services .....	4,457.1	4,799.2	5,171.8	5,477.4
Health services .....	6,298.7	6,535.7	6,827.8	7,228.3
<b>Government</b> .....	16,394	16,693	17,015	17,389
Federal .....	2,875	2,899	2,943	2,971
State .....	3,832	3,893	3,963	4,052
Local .....	9,687	9,901	10,109	10,366

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark

levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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	1985	1986	1987	1988 <sup>P</sup>
<b>Total private</b> .....	65,586	67,018	69,039	71,684
<b>Goods-producing</b> .....	17,409	17,197	17,412	18,000
<b>Mining</b> .....	658	545	515	529
<b>Construction</b> .....	3,659	3,775	3,902	4,131
<b>Manufacturing</b> .....	13,092	12,877	12,995	13,339
<b>Durable goods</b> .....	7,644	7,426	7,453	7,678
Lumber and wood products .....	583.8	597.0	618.6	632.0
Furniture and fixtures .....	394.1	398.0	414.8	429.5
Stone, clay, and glass products .....	450.7	450.3	450.4	456.8
Primary metal industries .....	611.5	565.5	564.4	598.4
Blast furnaces and basic steel products .....	231.5	208.8	203.7	217.4
Fabricated metal products .....	1,083.7	1,051.8	1,044.0	1,084.4
Machinery, except electrical .....	1,306.8	1,221.2	1,198.8	1,278.7
Electrical and electronic equipment .....	1,300.3	1,226.5	1,222.4	1,250.2
Transportation equipment .....	1,257.0	1,271.8	1,291.1	1,275.5
Motor vehicles and equipment .....	684.8	670.7	672.3	662.4
Instruments and related products .....	391.4	382.4	378.6	393.7
Miscellaneous manufacturing .....	284.4	262.0	269.5	279.0
<b>Nondurable goods</b> .....	5,449	5,450	5,543	5,661
Food and kindred products .....	1,118.1	1,131.2	1,149.1	1,166.2
Tobacco manufactures .....	48.0	44.2	41.0	39.5
Textile mill products .....	606.5	608.4	628.8	629.7
Apparel and other textile products .....	944.7	926.9	924.3	922.9
Paper and allied products .....	512.1	511.0	515.7	521.6
Printing and publishing .....	788.9	817.1	842.1	875.6
Chemicals and allied products .....	577.8	568.0	575.7	597.6
Petroleum and coal products .....	108.5	105.9	107.6	108.4
Rubber and misc. plastics products .....	607.4	614.6	638.6	679.2
Leather and leather products .....	136.7	122.6	120.0	120.6
<b>Service-producing</b> .....	48,177	49,822	51,628	53,665
<b>Transportation and public utilities</b> .....	4,339	4,345	4,464	4,632
<b>Wholesale trade</b> .....	4,598	4,615	4,704	4,956
<b>Retail trade</b> .....	15,457	15,969	16,454	17,017
<b>Finance, insurance, and real estate</b> .....	4,415	4,645	4,807	4,842
<b>Services</b> .....	19,368	20,248	21,198	22,236

<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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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			
	1985	1986	1987	1988 <sup>p</sup>	1985	1986	1987	1988 <sup>p</sup>	1985	1986	1987	1988 <sup>p</sup>
<b>Total private</b> .....	34.9	34.8	34.8	34.8	\$8.57	\$8.76	\$8.98	\$9.29	\$299.09	\$304.85	\$312.50	\$323.29
<b>Mining</b> .....	43.4	42.2	42.4	42.2	11.98	12.46	12.52	12.68	519.93	525.81	530.85	535.10
<b>Construction</b> .....	37.7	37.4	37.8	37.9	12.32	12.48	12.69	12.97	464.46	466.75	479.68	491.56
<b>Manufacturing</b> .....	40.5	40.7	41.0	41.1	9.54	9.73	9.91	10.17	386.37	396.01	406.31	417.99
<i>Overtime hours</i> .....	3.3	3.4	3.7	3.9	( <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> .....	41.2	41.3	41.5	41.8	\$10.10	\$10.29	\$10.43	\$10.70	\$416.12	\$424.98	\$432.85	\$447.26
<i>Overtime hours</i> .....	3.5	3.5	3.8	4.1	( <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	40.3	40.6	40.3	\$8.22	\$8.34	\$8.40	\$8.60	\$327.98	\$336.10	\$341.04	\$346.58
Furniture and fixtures .....	39.4	39.8	40.0	39.4	7.17	7.46	7.67	7.92	282.50	296.91	306.80	312.05
Stone, clay, and glass products .....	41.9	42.2	42.3	42.3	9.84	10.04	10.25	10.47	412.30	423.69	433.58	442.88
Primary metal industries .....	41.5	41.9	43.1	43.6	11.67	11.86	11.94	12.15	484.31	496.93	514.61	529.74
Blast furnaces and basic steel products .....	41.1	41.7	43.4	44.0	13.33	13.73	13.78	13.97	547.86	572.54	598.05	614.68
Fabricated metal products .....	41.3	41.3	41.5	41.8	9.70	9.88	10.00	10.24	400.61	408.04	415.00	428.03
Machinery, except electrical .....	41.5	41.6	42.2	42.6	10.29	10.57	10.70	10.97	427.04	439.71	451.54	467.32
Electrical and electronic equipment .....	40.6	41.0	40.9	41.0	9.46	9.65	9.88	10.13	384.08	395.65	404.09	415.33
Transportation equipment .....	42.6	42.3	42.0	42.8	12.71	12.81	12.95	13.37	541.45	541.86	543.90	572.24
Motor vehicles and equipment .....	43.5	42.6	42.2	43.6	13.39	13.45	13.55	14.08	582.47	572.97	571.81	613.89
Instruments and related products .....	41.0	41.0	41.4	41.6	9.17	9.47	9.71	9.94	375.97	388.27	401.99	413.50
Miscellaneous manufacturing .....	39.4	39.6	39.4	39.2	7.30	7.55	7.75	7.98	287.62	298.98	305.35	312.82
<b>Nondurable goods</b> .....	39.6	39.9	40.2	40.2	8.71	8.95	9.18	9.42	344.92	357.11	369.04	378.68
<i>Overtime hours</i> .....	3.1	3.3	3.6	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> )
Food and kindred products .....	40.0	40.0	40.2	40.4	\$8.57	\$8.75	\$8.94	\$9.11	\$342.80	\$350.00	\$359.39	\$368.04
Tobacco manufactures .....	37.2	37.4	39.0	39.7	11.96	12.88	14.03	14.58	444.91	481.71	547.17	578.83
Textile mill products .....	39.7	41.1	41.8	41.1	6.70	6.93	7.17	7.37	265.99	284.82	299.71	302.91
Apparel and other textile products .....	36.4	36.7	37.0	36.9	5.73	5.84	5.93	6.10	208.57	214.33	219.41	225.09
Paper and allied products .....	43.1	43.2	43.4	43.2	10.83	11.18	11.43	11.64	466.77	482.98	496.06	502.85
Printing and publishing .....	37.8	38.0	38.0	38.0	9.71	9.99	10.28	10.53	367.04	379.62	390.64	400.14
Chemicals and allied products .....	41.9	41.9	42.3	42.3	11.56	11.98	12.37	12.68	484.36	501.96	523.25	536.36
Petroleum and coal products .....	43.0	43.8	44.0	44.3	14.06	14.19	14.59	15.04	604.58	621.52	641.96	666.27
Rubber and misc. plastics products .....	41.1	41.3	41.6	41.6	8.54	8.73	8.91	9.11	350.99	360.55	370.66	378.98
Leather and leather products .....	37.2	36.9	38.2	37.5	5.83	5.92	6.08	6.27	216.88	218.45	232.26	235.13
<b>Transportation and public utilities</b> .....	39.5	39.2	39.2	39.3	11.40	11.70	12.03	12.33	450.30	458.64	471.58	484.57
<b>Wholesale trade</b> .....	38.4	38.3	38.1	38.1	9.16	9.35	9.59	9.92	351.74	358.11	365.38	377.95
<b>Retail trade</b> .....	29.4	29.2	29.2	29.1	5.94	6.03	6.11	6.30	174.64	176.08	178.41	183.33
<b>Finance, insurance, and real estate</b> .....	36.4	36.4	36.3	36.0	7.94	8.36	8.73	9.09	289.02	304.30	316.90	327.24
<b>Services</b> .....	32.5	32.5	32.5	32.6	7.90	8.18	8.48	8.90	256.75	265.85	275.60	290.14

<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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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 over about 55,800 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of over 300,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who received pay during the payroll period which includes the 12th day of the month.

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

### Employment

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

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

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

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

### Hours of work

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

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

## Earnings

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

## COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

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

## COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

# Household Data (A tables)

## COLLECTION AND COVERAGE

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

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

Inmates of institutions and persons under 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 55,800 occupied units are eligible for interview. About 2,600 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 55,800 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

## CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those used since 1967 are as follows:

*Employed persons* are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family; and (b) all those who

were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

Included in the total are employed citizens of foreign countries who are temporarily in the United States but not living on the premises of an embassy. Excluded are persons whose only activity consisted of work around the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

*Unemployed persons* are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

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

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

*Jobseekers* are all unemployed persons who made



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*Poverty areas* are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untraced areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas, and conversely, the areas include many people who are not poor.

The *metropolitan areas* classification consists of the total of all Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the *1980 Census of Population Supplementary Report on Metropolitan Statistical Areas*, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.

The *urban population*, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; and (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

## HISTORICAL COMPARABILITY

### Change in lower age limit

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

*Report on the Labor Force*, February 1967.

### Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 1980 census occupational classification system evolved

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

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

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

### Changes in the sample design

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

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

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

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of *Employment and Earnings*, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988.

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

### ESTIMATING METHODS

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

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

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to present	729	53,200	2,600	11,500

<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 using the two most recent July 1 estimates, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports, Series P-25*. For a description of the methodology used in developing the State total, see Report 957 of that series. A description of the age estimates methodology is available in Report 1010 of that series.

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

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

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

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

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

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

### **Rounding of estimates**

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

### **Reliability of the estimates**

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

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

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

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



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

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

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

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

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

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

2. Approximately 90 percent of the intervals from 1.6

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

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

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

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

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



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

(in thousands)

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

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

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

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

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

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

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

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

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

*Illustration.* Assume that in a given month 2.9 percent of a total of 112,440,000 employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of 112,440,000 is obtained from table H (0.08 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 2.9 percent is then approximately  $0.08 \times 1.26 = 0.10$  percentage point.

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

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that

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

(in thousands)

Estimated monthly level	Characteristic <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 . . . . .	15	11	12	12	12	12	12	11	10
100 . . . . .	21	16	17	17	17	17	16	15	14
500 . . . . .	47	36	38	37	37	36	32	34	31
1,000 . . . . .	66	51	53	52	51	50	35	49	43
2,000 . . . . .	93	72	73	74	70	68	-	68	58
4,000 . . . . .	131	101	97	104	92	86	-	95	73
6,000 . . . . .	159	123	110	126	104	92	-	115	76
8,000 . . . . .	182	141	116	145	109	88	-	132	69
10,000 . . . . .	202	156	-	161	108	72	-	145	47
15,000 . . . . .	-	188	-	193	74	-	-	172	-
20,000 . . . . .	-	213	-	219	-	-	-	191	-
30,000 . . . . .	-	-	-	259	-	-	-	215	-
40,000 . . . . .	-	-	-	286	-	-	-	225	-
50,000 . . . . .	-	-	-	306	-	-	-	222	-
60,000 . . . . .	-	-	-	319	-	-	-	206	-
70,000 . . . . .	-	-	-	326	-	-	-	172	-
80,000 . . . . .	-	-	-	327	-	-	-	107	-
100,000 . . . . .	-	-	-	314	-	-	-	-	-
120,000 . . . . .	-	-	-	274	-	-	-	-	-
140,000 . . . . .	-	-	-	195	-	-	-	-	-

<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 . . . . .	13	14	13	14	9	9	14	14
100 . . . . .	18	20	19	20	12	12	20	19
500 . . . . .	40	45	41	38	27	27	43	37
1,000 . . . . .	56	63	57	41	39	38	59	39
2,000 . . . . .	78	89	76	-	55	52	80	-
4,000 . . . . .	108	124	95	-	77	68	100	-
6,000 . . . . .	129	150	99	-	93	78	104	-
8,000 . . . . .	144	-	89	-	107	82	94	-
10,000 . . . . .	157	-	58	-	119	81	65	-
15,000 . . . . .	177	-	-	-	143	59	-	-
20,000 . . . . .	184	-	-	-	163	-	-	-
30,000 . . . . .	-	-	-	-	192	-	-	-
40,000 . . . . .	-	-	-	-	213	-	-	-
50,000 . . . . .	-	-	-	-	228	-	-	-
60,000 . . . . .	-	-	-	-	238	-	-	-
70,000 . . . . .	-	-	-	-	244	-	-	-
80,000 . . . . .	-	-	-	-	245	-	-	-
100,000 . . . . .	-	-	-	-	237	-	-	-
120,000 . . . . .	-	-	-	-	212	-	-	-
140,000 . . . . .	-	-	-	-	160	-	-	-

<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 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, is obtained from table F (0.11 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.11 x 1.40 = 0.15 percentage point.

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

Standard error of year-to-year change =

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

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

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

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

$$(216,000)^2 + (221,000)^2 - 2(.30) (216,000) (221,000),$$

or about 259,000.

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

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . . . .	2.28	3.20	4.98	6.85	8.13	9.09	9.82	10.36	10.75	11.12
100 . . . . .	1.61	2.26	3.52	4.84	5.75	6.43	6.94	7.33	7.60	7.87
500 . . . . .	.72	1.01	1.58	2.16	2.57	2.88	3.11	3.28	3.40	3.52
1,000 . . . . .	.51	.72	1.11	1.53	1.82	2.03	2.20	2.32	2.40	2.49
2,000 . . . . .	.36	.51	.79	1.08	1.29	1.44	1.55	1.64	1.70	1.76
4,000 . . . . .	.25	.36	.56	.77	.91	1.02	1.10	1.16	1.20	1.24
6,000 . . . . .	.21	.29	.45	.62	.74	.83	.90	.95	.98	1.02
10,000 . . . . .	.16	.23	.35	.48	.58	.64	.69	.73	.76	.79
20,000 . . . . .	.11	.16	.25	.34	.41	.45	.49	.52	.54	.56
60,000 . . . . .	.07	.09	.14	.20	.24	.26	.28	.30	.31	.32
100,000 . . . . .	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
120,000 . . . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.23
140,000 . . . . .	.04	.06	.09	.13	.15	.17	.19	.20	.21	.21

**Table G. Standard errors for month-to-month change in unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . . . .	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.87	13.71	15.67
100 . . . . .	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500 . . . . .	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000 . . . . .	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000 . . . . .	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000 . . . . .	.28	.40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000 . . . . .	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000 . . . . .	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000 . . . . .	.13	.18	.28	.38	.46	.51	.56	.60	.62	
60,000 . . . . .	.07	.10	.16	.21	.24	.27	.28			
100,000 . . . . .	.06	.08	.12	.15	.17	.18				
120,000 . . . . .	.05	.07	.11	.14	.15					
140,000 . . . . .	.05	.07	.10							

**Table H. Standard errors for estimated percentages and month-to-month change in percentages for labor force data**

Monthly base of percentages (in thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50 . . . . .	2.34	3.29	5.12	7.05	8.39	9.40	10.18	10.77	11.21	11.75
100 . . . . .	1.65	2.33	3.62	4.99	5.94	6.65	7.20	7.62	7.93	8.31
500 . . . . .	.74	1.04	1.62	2.23	2.65	2.97	3.22	3.41	3.55	3.72
1,000 . . . . .	.52	.74	1.15	1.58	1.88	2.10	2.28	2.41	2.51	2.63
2,000 . . . . .	.37	.52	.81	1.12	1.33	1.49	1.61	1.70	1.77	1.86
4,000 . . . . .	.26	.37	.57	.79	.94	1.05	1.14	1.20	1.25	1.31
6,000 . . . . .	.21	.30	.47	.64	.77	.86	.93	.98	1.02	1.07
10,000 . . . . .	.17	.23	.36	.50	.59	.66	.72	.76	.79	.83
20,000 . . . . .	.12	.16	.26	.35	.42	.47	.51	.54	.56	.59
40,000 . . . . .	.08	.12	.18	.25	.30	.33	.36	.38	.40	.42
60,000 . . . . .	.07	.10	.15	.20	.24	.27	.29	.31	.32	.34
80,000 . . . . .	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
100,000 . . . . .	.05	.07	.11	.16	.19	.21	.23	.24	.25	.26
120,000 . . . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
140,000 . . . . .	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22
160,000 . . . . .	.04	.06	.09	.12	.15	.17	.18	.19	.20	.21

NOTE: The standard errors in this table must be multiplied by the factors in table I to obtain the approximate standard error for a specific characteristic.

**Table I. Factors to be used with table H to compute approximate standard errors for percentages and month-to-month change in percentages**

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force . . . . .	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force . . . . .	1.01	1.21
Part-time labor force . . . . .	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment and unemployment:			Total or white:		
Total . . . . .	1.00	.74	Total . . . . .	.97	1.08
Men only . . . . .	.93	.84	Both sexes, 16 to 19 years . . . . .	.97	1.21
Women only . . . . .	.86	.75	Black:		
Both sexes, 16 to 19 years . . . . .	1.00	1.18	Total . . . . .	1.04	1.13
Part-time labor force . . . . .	1.00	1.18	Both sexes, 16 to 19 years . . . . .	1.04	1.24

**Table J. Factors to be used with tables D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages, and change in yearly averages**

Characteristic	Factor				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men . . . . .	1.30	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years) . . . . .	1.30	.83	.80	.58	.70
Part time . . . . .	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment and unemployment:					
Total or white . . . . .	1.30	.88	.88	.67	.70
Black 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 1974 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.* These series are compiled only for aircraft



(SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 and SIC 3761 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

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

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

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

Long-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 1987 levels. Normally, benchmark adjustments are made annually.

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

**Table L. Summary of methods for computing industry statistics on employment, hours, and earnings**

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
Monthly data		
All employees . . .	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. <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.
Annual average data		
All employees, women employees, and production or nonsupervisory workers . . .	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Average weekly hours . . .	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours . . .	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Average hourly earnings . . .	Annual total of aggregate payrolls (product of production or nonsupervisory worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Average weekly earnings . . .	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.

<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 1987 benchmark adjustment is shown in table M.

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

## THE SAMPLE

### Design

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

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1987**

Industry	Benchmark	Estimate	Percent difference
Total . . . . .	100,427	100,462	(1)
Mining . . . . .	696	718	-3.2
Construction . . . . .	4,531	4,599	-1.5
Manufacturing . . . . .	18,810	18,897	-.5
Transportation and public utilities . . . . .	5,274	5,275	(1)
Wholesale trade . . . . .	5,763	5,725	.7
Retail trade . . . . .	17,902	17,737	.9
Finance, insurance, and real estate . . . . .	6,443	6,478	-.5
Services . . . . .	23,754	23,723	.1
Government . . . . .	17,254	17,310	-.3

<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 1987<sup>1</sup>**

Industry	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total . . . . .	246,256	37,530,000	37
Mining . . . . .	3,434	265,000	38
Construction . . . . .	22,567	808,000	18
Manufacturing . . . . .	49,214	9,522,000	51
Transportation and public utilities . . . . .	11,820	2,377,000	45
Wholesale trade . . . . .	21,802	956,000	17
Retail trade . . . . .	44,982	3,509,000	20
Finance, insurance, and real estate . . . . .	17,699	2,140,000	33
Services . . . . .	54,782	5,495,000	23
Government:			
Federal . . . . .	( <sup>2</sup> )	2,916,000	100
State . . . . .	4,795	3,298,000	81
Local . . . . .	15,161	6,244,000	61

<sup>1</sup> Counts reflect reports used in final estimates. Since not all establishments report payroll and hours information, hours and earnings estimates are based on a smaller sample than employment estimates.

<sup>2</sup> Total Federal employment counts for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,600 reports covering about 55 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 . . . . .	.2	0.1	0.2
Mining . . . . .	2.9	1.0	1.3
Construction . . . . .	1.4	.2	.5
Manufacturing . . . . .	.8	.1	.2
Durable goods . . . . .	.9	.1	.3
Nondurable goods . . . . .	.8	.1	.2
Transportation and public utilities . . . . .	.3	.7	.6
Wholesale trade . . . . .	.8	.2	.4
Retail trade . . . . .	.9	.2	.4
Finance, insurance, and real estate . . . . .	.3	.2	.4
Services . . . . .	.2	.4	.6
Government <sup>3</sup> . . . . .	.5	—	—

<sup>1</sup> The average percent revision in employment for the 1983-87 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:

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

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

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

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of 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 . . . . .	89,600	89,100	Nondurable goods—Continued		
Total private . . . . .	62,700	60,000	Chemicals and allied products . . . . .	2,700	2,900
Goods-producing industries . . . . .	22,400	20,800	Petroleum and coal products . . . . .	1,200	1,100
Mining . . . . .	4,700	4,400	Rubber and misc. plastics products . . . . .	1,600	1,700
Oil and gas extraction . . . . .	4,000	3,400	Leather and leather products . . . . .	1,800	1,700
Construction . . . . .	14,800	15,700	Service-producing industries . . . . .	86,300	85,700
General building contractors . . . . .	5,000	5,200	Transportation and public utilities . . . . .	15,500	13,900
Manufacturing . . . . .	19,200	19,300	Transportation . . . . .	17,800	17,300
Durable goods . . . . .	14,400	12,700	Communication and public utilities . . . . .	6,800	6,400
Lumber and wood products . . . . .	2,300	2,100	Wholesale trade . . . . .	9,400	8,200
Furniture and fixtures . . . . .	1,700	1,700	Durable goods . . . . .	6,100	5,500
Stone, clay, and glass products . . . . .	1,600	1,600	Nondurable goods . . . . .	5,400	4,600
Primary metal industries . . . . .	4,700	4,700	Retail trade . . . . .	40,700	36,100
Blast furnaces and basic steel products . . . . .	3,600	3,400	General merchandise stores . . . . .	23,900	21,400
Fabricated metal products . . . . .	2,500	2,300	Food stores . . . . .	6,900	6,200
Machinery, except electrical . . . . .	6,000	7,300	Automotive dealers and service stations . . . . .	3,300	3,200
Electrical and electronic equipment . . . . .	5,100	5,100	Eating and drinking places . . . . .	10,900	10,300
Transportation equipment . . . . .	8,100	7,400	Finance, insurance, and real estate	8,400	7,500
Motor vehicles and equipment . . . . .	7,000	7,000	Finance . . . . .	4,000	3,900
Instruments and related products . . . . .	2,000	2,200	Insurance . . . . .	3,800	3,100
Miscellaneous manufacturing . . . . .	1,900	1,800	Real estate . . . . .	4,800	3,800
Nondurable goods . . . . .	8,900	8,500	Services . . . . .	34,700	31,700
Food and kindred products . . . . .	5,600	5,700	Business services . . . . .	11,000	10,500
Tobacco manufactures . . . . .	1,600	1,500	Health services . . . . .	10,300	10,100
Textile mill products . . . . .	1,800	1,700	Government . . . . .	62,800	54,500
Apparel and other textile products . . . . .	4,700	4,100	Federal . . . . .	16,900	11,700
Paper and allied products . . . . .	1,600	1,400	State . . . . .	22,600	20,600
Printing and publishing . . . . .	2,200	2,100	Local . . . . .	34,900	32,400

NOTE: Data are based on differences from December 1982 through December 1987.

## 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 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.

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 1988 and projected data through March 1989. 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 1988. Seasonal adjustment factors to be used for current adjustment appear in the June 1988 issue of *Employment and Earnings*.

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