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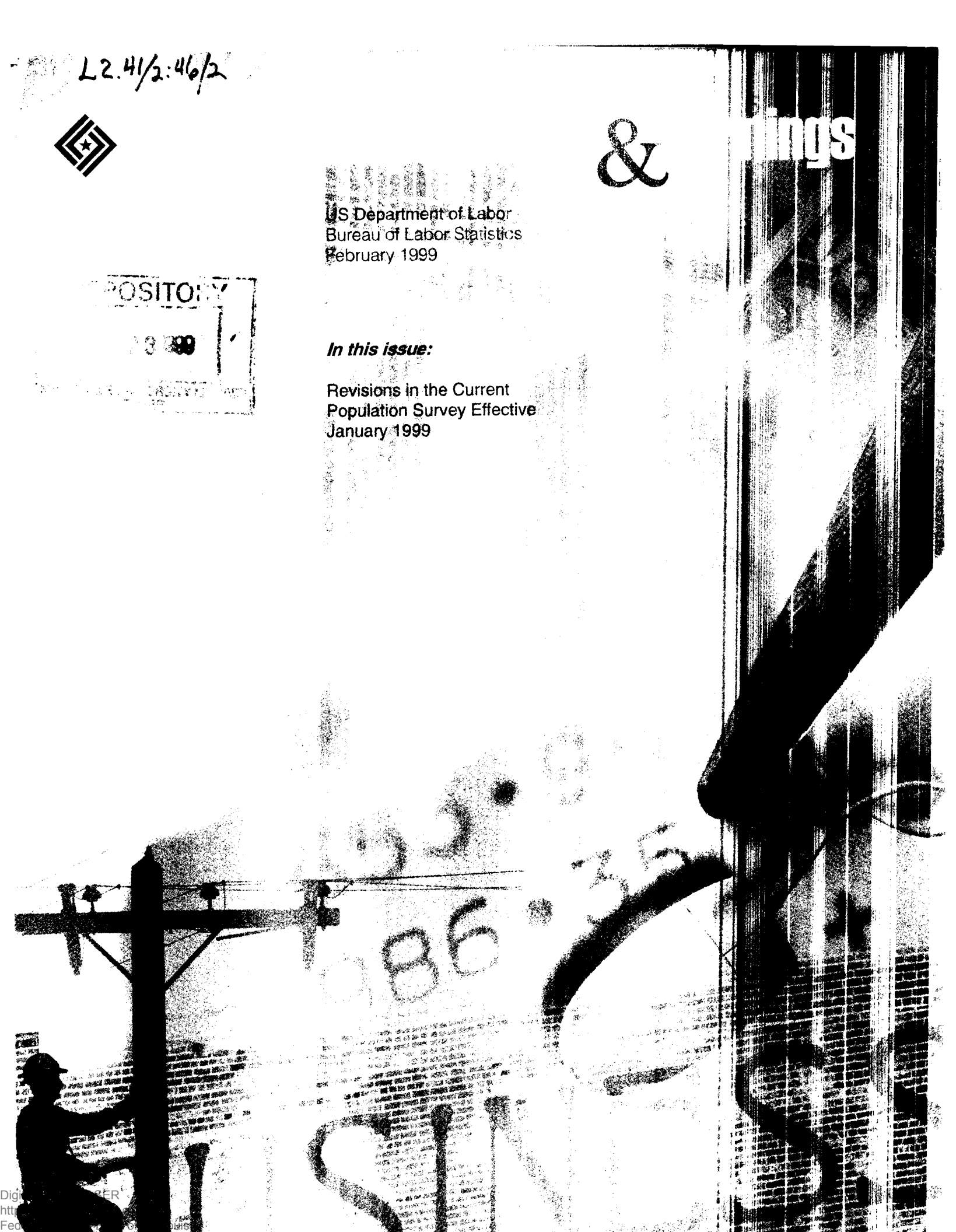
US Department of Labor  
Bureau of Labor Statistics  
February 1999

DEPOSITORY

1999

*In this issue:*

Revisions in the Current  
Population Survey Effective  
January 1999





# U.S. DEPARTMENT OF LABOR

Alexis M. Herman, *Secretary*

BUREAU OF LABOR STATISTICS

Katharine G. Abraham, *Commissioner*

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February 1999

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## Calendar of Features

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

### Household data

Annual averages	Jan.
Union affiliation	Jan.
Earnings by detailed occupation	Jan.
Employee absences	Jan.
Revised seasonally adjusted series	Jan.
Quarterly averages: Seasonally adjusted data, persons of Hispanic origin, Vietnam-era veterans and nonveterans, and weekly earnings data	Jan., Apr., July, Oct.

### Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail	March, June
Women employees	March, June
National data revised to reflect new benchmarks and new seasonal adjustment factors	June
State and area annual revisions	March
State and area annual averages	May
Area definitions	May

### Region, State, and area labor force data

Annual revisions	March
Annual averages	May

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Keith Tapscott

# Employment & Earnings

## Editors

Eugene H. Becker  
John F. Stinson Jr.

## Editors' Note

Effective with the publication of January 1999 data, household survey data shown in table A and tables A-1 through A-38 incorporate revised population controls. For additional information, see the article beginning on page 3.

## Design and Layout

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## Contents

	<i>Page</i>
List of statistical tables .....	ii
Contents to the explanatory notes and estimates of error .....	iv
Employment and unemployment developments, January 1999 .....	1
Revisions in the Current Population Survey effective January 1999 .....	3
Summary tables and charts .....	5
Explanatory notes and estimates of error .....	138
Index to statistical tables .....	176

## Statistical tables

Source	Historical	Seasonally adjusted	Not seasonally adjusted
Household data .....	7	9	20
Establishment data:			
Employment:			
National .....	45	49	66
State .....		54	79
Area .....			79
Hours and earnings:			
National .....	46	62	98
State and area .....			121
Local area labor force data:			
Region .....		125	
State .....		127	132
Area .....			132

# Monthly Household Data

Page

## Historical

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1965 to date .....	7
A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1987 to date .....	8

## Seasonally Adjusted Data

### Employment Status

A-3. Employment status of the civilian noninstitutional population by sex and age .....	9
A-4. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin .....	10
A-5. Employment status of the civilian noninstitutional population 25 years and over by educational attainment .....	12
A-6. Employed and unemployed full- and part-time workers by sex and age .....	13

### Characteristics of the Employed

A-7. Employed persons by marital status, occupation, class of worker, and part-time status .....	14
A-8. Employed persons by age and sex .....	15

### Characteristics of the Unemployed

A-9. Unemployed persons by age and sex .....	16
A-10. Unemployment rates by age and sex .....	17
A-11. Unemployment rates by occupation, industry, and selected demographic characteristics .....	18
A-12. Unemployed persons by reason for unemployment .....	19
A-13. Unemployed persons by duration of unemployment .....	19

## Not Seasonally Adjusted Data

### Employment Status

A-14. Employment status of the civilian noninstitutional population by age, sex, and race .....	20
A-15. Employment status of the civilian noninstitutional population by race, sex, and age .....	23
A-16. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, educational attainment, sex, race, and Hispanic origin .....	24
A-17. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, sex, race, and Hispanic origin .....	26
A-18. Employed and unemployed full- and part-time workers by age, sex, and race .....	27

### Characteristics of the Employed

A-19. Employed persons by occupation, sex, and age .....	28
A-20. Employed persons by occupation, race, and sex .....	29
A-21. Employed persons by industry and occupation .....	30
A-22. Employed persons in agriculture and nonagricultural industries by age, sex, and class of worker .....	31
A-23. Persons at work in agriculture and nonagricultural industries by hours of work .....	32
A-24. Persons at work 1 to 34 hours in all and nonagricultural industries by reason for working less than 35 hours and usual full- or part-time status .....	32
A-25. Persons at work in nonagricultural industries by class of worker and usual full- or part-time status .....	33
A-26. Persons at work in nonagricultural industries by age, sex, race, marital status, and usual full- or part-time status ..	34
A-27. Persons at work in nonfarm occupations by sex and usual full- or part-time status .....	35

### Characteristics of the Unemployed

A-28. Unemployed persons by marital status, race, age, and sex .....	36
A-29. Unemployed persons by occupation and sex .....	37
A-30. Unemployed persons by industry and sex .....	38
A-31. Unemployed persons by reason for unemployment, sex, age, and race .....	39
A-32. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment .....	40
A-33. Unemployed total and full-time workers by duration of unemployment .....	40
A-34. Unemployed persons by age, sex, race, marital status, and duration of unemployment .....	41
A-35. Unemployed persons by occupation, industry, and duration of unemployment .....	42

### Persons Not in the Labor Force

A-36. Persons not in the labor force by desire and availability for work, age, and sex .....	42
--	----

### Multiple Jobholders

A-37. Multiple jobholders by selected demographic and economic characteristics .....	43
--	----

### Vietnam-era Veterans and Nonveterans

A-38. Employment status of male Vietnam-era veterans and nonveterans by age .....	44
---	----

# Monthly Establishment Data

Page

## Historical

B-1. Employees on nonfarm payrolls by major industry, 1947 to date .....	45
B-2. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry, 1964 to date .....	46

## Seasonally Adjusted Data

### Employment

#### National

B-3. Employees on nonfarm payrolls by major industry and selected component groups .....	49
B-4. Women employees on nonfarm payrolls by major industry and manufacturing group .....	51
B-5. Production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group .....	52
B-6. Diffusion indexes of employment change .....	53

#### States

B-7. Employees on nonfarm payrolls by State and major industry .....	54
--	----

### Hours and Earnings

#### National

B-8. Average weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group .....	62
B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group .....	63
B-10. Hours of wage and salary workers on nonfarm payrolls by major industry .....	64
B-11. Average hourly and weekly earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry .....	65

## Not Seasonally Adjusted Data

### Employment

#### National

B-12. Employees on nonfarm payrolls by detailed industry .....	66
B-13. Women employees on nonfarm payrolls by major industry and manufacturing group .....	78

#### States and Areas

B-14. Employees on nonfarm payrolls in States and selected areas by major industry .....	79
--	----

### Hours and Earnings

#### National

B-15. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by detailed industry .....	98
B-15a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing .....	118
B-16. Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls .....	119
B-17. Average hourly and weekly earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry, in current and constant (1982) dollars .....	120

#### States and Areas

B-18. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas .....	121
---	-----

## Monthly Regional, State, and Area Labor Force Data

### Seasonally Adjusted Data

C-1. Labor force status by census region and division .....	125
C-2. Labor force status by State .....	127

### Not Seasonally Adjusted Data

C-3. Labor force status by State and metropolitan area .....	132
--	-----

# Explanatory Notes and Estimates of Error

	<i>Page</i>		<i>Page</i>
Introduction .....	138	Establishment data—Continued	
Relation between the household and establishment series .....	138	Estimating methods .....	161
Comparability of household data with other series .....	139	Benchmarks .....	161
Comparability of payroll employment data with other series .....	139	Monthly estimation .....	161
Household data .....	140	Stratification .....	161
Collection and coverage .....	140	Link relative technique .....	161
Concepts and definitions .....	140	Bias adjustment .....	161
Historical comparability .....	142	Summary of methods table .....	162
Changes in concepts and methods .....	142	The sample .....	163
Noncomparability of labor force levels .....	144	Design .....	163
Changes in the occupational and industrial classification systems .....	146	Coverage .....	164
Sampling .....	146	Reliability .....	164
Selection of sample areas .....	147	Measures of error tables .....	164
Selection of sample households .....	147	Benchmark revision as a measure of survey error .....	164
Rotation of sample .....	148	Estimated standard errors for employment, hours, and earnings .....	165
CPS sample, 1947 to present .....	148	Standard errors for differences between industries and times .....	165
Estimating methods .....	148	Noneconomic code changes .....	165
Noninterview adjustment .....	149	Revisions between preliminary and final data .....	168
Ratio estimates .....	149	Statistics for States and areas .....	168
First stage .....	149	Region, State, and area labor force data .....	171
Second stage .....	149	Federal-State cooperative program .....	171
Composite estimation procedure .....	150	Estimating methods .....	171
Rounding of estimates .....	150	Estimates for States .....	171
Reliability of the estimates .....	150	Current monthly estimates .....	171
Nonsampling error .....	150	Benchmark correction procedures .....	171
Sampling error (Revised effective Jan. 1996) .....	151	Estimates for sub-State areas .....	172
Tables I-B through I-H .....	151	Preliminary estimate:	
Establishment data .....	158	Employment .....	172
Collection .....	158	Unemployment .....	172
Concepts .....	158	Sub-State adjustment for additivity .....	172
		Benchmark correction .....	172
		Seasonal adjustment .....	173

# Employment and Unemployment Developments, January 1999

**E**mployment rose in January and the unemployment rate was unchanged at 4.3 percent. Nonfarm payroll employment rose by 245,000, about in line with the average for the prior 12 months. Gains occurred in most major industry divisions. Average hourly earnings increased by 6 cents.

## Unemployment

The number of unemployed persons, 6.0 million, was about unchanged in January, and the unemployment rate held at 4.3 percent, seasonally adjusted. The jobless rate has remained within a narrow range of 4.3 to 4.5 percent since last April. Among the major worker groups, the unemployment rate for Hispanics fell to 6.6 percent in January. The jobless rates for the other major demographic groups—adult men (3.4 percent), adult women (3.7 percent), teenagers (15.5 percent), whites (3.8 percent), and blacks (7.8 percent)—showed little or no change over the month. (See tables A-3 and A-4.)

## Total employment and the labor force

Total employment rose by 814,000 in January after adjustment for the effect of revisions to population controls. The employment-population ratio—the proportion of the population age 16 and older with jobs—reached a record 64.5 percent, up 0.3 percentage point from the previous month. (See table A-3.)

The civilian labor force increased by 742,000, again after adjustment for the effect of population control revisions. The labor force participation rate rose to 67.4 percent, also a record. (See table A-3.)

Approximately 7.9 million persons (not seasonally adjusted) held more than one job in January. These multiple jobholders comprised 6.0 percent of total employment, the same rate as a year earlier. (See table A-37.)

## Persons not in the labor force

About 1.4 million persons (not seasonally adjusted) were marginally attached to the labor force in January. These were people who wanted and were available for work and had looked for a job sometime in the prior 12 months but were not counted as unemployed because they had not searched for work in the 4 weeks preceding the survey.

The number of discouraged workers—a subset of the marginally attached who were not currently looking for work specifically because they believed no jobs were available for

them—was 339,000 in January, about the same as a year earlier. (See table A-36.)

## Industry payroll employment

Nonfarm payroll employment, at 127.3 million, seasonally adjusted, increased by 245,000 in January, about equal to the average gain over the prior 12 months. Employment growth was widespread in the service-producing sector, and the construction industry added jobs despite unusually adverse winter weather in some parts of the country. Job losses continued in manufacturing and mining. (See table B-3.)

The services industry added 114,000 jobs in January, in line with its average for the prior 12 months. Employment in business services rose by 48,000 in January. Strong growth continued in computer and data processing services, which added 17,000 jobs. In contrast, employment growth in help supply services remained sluggish. Engineering and management services registered a relatively large over-the-month employment increase (27,000) in January and continued on its strong growth trend. Social services continued its steady growth, adding 10,000 jobs. Health services experienced its third consecutive month of slower growth, adding only 6,000 jobs. A decline in home health care employment largely offset a gain in offices and clinics of doctors. A January job gain of 13,000 in amusements and recreation reversed a decline of similar magnitude in December.

Retail trade employment increased by 30,000 in January. January is the month when retail stores lay off most of the workers who were hired for the holiday shopping season. Department stores had stronger-than-usual employment build-up for the holidays, so there were more people to let go in January. As a result, employment declined by 31,000, after seasonal adjustment. In contrast, apparel stores and miscellaneous general merchandise stores, such as bookstores, jewelry stores, and gift shops, had below-normal holiday hiring. This led to fewer-than-usual layoffs in January and large employment increases, after seasonal adjustment. These gains largely offset the decline in department stores. A second month of strong employment gains in building supply stores reflected the strength in construction activity.

Wholesale trade employment rose by 28,000 in January, following a small increase in December. A large gain in the nondurable goods component (20,000) was led by grocery wholesaling. In durable goods distribution, professional and commercial equipment accounted for the increase.

Employment in transportation and public utilities rose by 22,000 in January, after seasonal adjustment. Within transportation, trucking added 12,000 jobs; this was the second consecutive month of above-average growth in the industry. Telephone companies continued to lead the growth in communications, which added 11,000 jobs in January.

Finance, insurance, and real estate added 22,000 jobs in January. Within finance, the over-the-month gain of 11,000 was spread among the various types of banks, brokerages, and other investment offices. In real estate, employment also increased by 11,000 in January, more than twice the average monthly gain for the prior 12 months. This industry has benefited from low mortgage rates. In contrast, for the first time in two years, insurance did not add jobs.

Local government employment increased by 35,000 in January, with both the educational and noneducational components adding jobs. State and Federal Government employment levels were essentially unchanged.

In the goods-producing sector, construction employment continued to rise, after seasonal adjustment. January's gain of 15,000 jobs was substantially smaller than December's large increase. Exceptionally severe weather in the upper Midwest and Northeast during the January survey reference period curtailed construction activity in those parts of the country. Outdoor construction activity—roofing and masonry within special trades and the highway portion of heavy construction—was most affected by the bad weather. In contrast, employment growth among general building contractors was strong for the second month in a row.

Manufacturing employment continued to decline in January, although the loss of 13,000 jobs was the smallest since September. Industrial machinery has experienced steep declines, losing 15,000 jobs in January and 69,000 since March. Electronic equipment employment also continued to decline, dropping by 6,000 jobs in January; this was slightly less than the average loss for the prior six months.

Employment in the apparel industry also continued downward in January, falling by 8,000. Since its most recent peak in November 1991, employment in apparel manufacturing has dropped by 294,000, or 29 percent. In January, lumber had a particularly large job increase (8,000), reflecting construction's strength. Fabricated metals showed its first employment increase since August, and motor vehicles had its first job gain since October. Food products and rubber and miscellaneous plastics also had employment increases in January; gains in these industries over the past three months offset losses sustained in mid-1998. Mining continued its long-term downward trend in January, losing 9,000 jobs. In recent months, employment declines have accelerated in oil and gas extraction.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged down by 0.1 hour in January to 34.5 hours, seasonally adjusted. The manufacturing workweek decreased by 0.2 hour to 41.5 hours, while factory overtime was 4.5 hours for the fifth consecutive month. (See table B-8.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls was unchanged at 146.2 (1982=100), seasonally adjusted. The manufacturing index decreased by 0.6 percent in January to 106.8, reflecting the decrease in the factory workweek. (See table B-9.)

### Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose by 6 cents in January to \$13.04, seasonally adjusted. Average weekly earnings increased by 0.2 percent to \$449.88. Over the year, average hourly and weekly earnings have risen by 4.0 percent and 3.1 percent, respectively. (See table B-11.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
Reference month	Release date	Reference month	Release date
February	March 5	May	June 4
March	April 2	June	July 2
April	May 7	July	August 6



# Revisions in the Current Population Survey Effective January 1999

John F. Stinson Jr.

Effective with the release of January 1999 data, revisions were introduced into the population controls used for the Current Population Survey (CPS). Such revisions are introduced periodically into the survey to incorporate the latest information available on population growth trends. The current revisions primarily reflect updated information on immigration. This article briefly describes the revisions and provides an indication of their effects on national labor force estimates.

## Nature of the revisions

Each month, CPS estimates of the population are controlled to independent population estimates. The current revisions to the population controls resulted from the incorporation of information provided by the Immigration and Naturalization Service (INS), which increased the proportion of undocumented immigrants who originated as "visa overstayers." These are persons who came into the United States on a temporary visa and did not leave when it expired. The significant effect of this change was to reduce the size of the Hispanic-origin population for men and to increase it for women. It also contributed to a disproportionately large increase in the size of the population for the "other races" category, especially for Asian and Pacific Islanders. The INS data were incorporated into the population controls because they represented an analysis of information

available through the mid-1990s. The previous information on undocumented immigration reflected in the population controls was derived from 1990 census data.

## Effect of the revisions on national estimates

Table 1 provides population and labor force estimates by age, sex, race, and Hispanic origin for December 1998 based on the old and revised population controls.<sup>1</sup> The introduction of these controls into the CPS estimation procedure results in an increase in the estimated population and labor force levels and represents a break in series with data for prior years. In many cases, however, the break is inconsequential. As the table indicates, the civilian noninstitutional population 16 years and over was raised by about 310,000, with the population of men falling by about 180,000 and that for women increasing by about 490,000. The labor force and employment levels were increased by about 60,000 each, as gains for women more than offset losses among men. The Hispanic-origin population estimates were lowered by about 165,000 and the labor force and employment estimates were lowered by about 225,000 and 215,000, respectively, with large declines for men much more than offsetting smaller gains for women. The population revisions had a negligible impact on unemployment rates and other percentage estimates.

BLS has no plans to revise the national historical labor force estimates at this time.

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John F. Stinson Jr. is an editor of *Employment and Earnings* and an economist at the Bureau of Labor Statistics. Staff of the Bureau of the Census provided information for this article.

<sup>1</sup> The "old" December 1998 data are weighted noncomposed estimates and differ from the official weighted composite estimates previously published.

**Table 1. Population and labor force estimates, by age, sex, race, and Hispanic origin, using old and revised 1990 census-based population controls, December 1998, not seasonally adjusted**

(Numbers in thousands)

Characteristic	Total			White			Black			Hispanic origin		
	Old controls <sup>1</sup>	Revised controls	Difference	Old controls <sup>1</sup>	Revised controls	Difference	Old controls <sup>1</sup>	Revised controls	Difference	Old controls <sup>1</sup>	Revised controls	Difference
<b>Civilian noninstitutional population</b>												
Total, 16 years and over .....	206,270	206,577	307	172,197	172,296	99	24,561	24,634	73	21,405	21,241	-164
16 to 19 years .....	15,933	15,995	62	12,568	12,609	41	2,509	2,516	7	2,241	2,268	27
20 to 24 years .....	17,648	17,658	10	14,243	14,230	-13	2,526	2,538	12	2,784	2,732	-52
25 to 54 years .....	117,767	117,853	86	97,148	97,102	-46	14,557	14,599	42	13,039	12,875	-164
55 years and over .....	54,922	55,071	149	48,238	48,355	117	4,969	4,982	13	3,340	3,366	26
Men .....	99,309	99,126	-183	83,748	83,510	-238	11,018	11,039	21	10,906	10,523	-383
Women .....	106,960	107,451	491	88,449	88,786	337	13,543	13,596	53	10,499	10,719	220
<b>Civilian labor force</b>												
Total, 16 years and over .....	138,764	138,822	58	116,142	116,068	-74	16,287	16,333	46	14,542	14,316	-226
16 to 19 years .....	8,115	8,140	25	6,790	6,808	18	1,021	1,023	2	999	1,009	10
20 to 24 years .....	13,522	13,514	-8	11,162	11,139	-23	1,759	1,766	7	2,095	2,040	-55
25 to 54 years .....	99,406	99,429	23	82,669	82,590	-79	11,953	11,988	35	10,382	10,198	-184
55 years and over .....	17,721	17,739	18	15,521	15,530	9	1,554	1,556	2	1,066	1,070	4
Men .....	74,199	73,978	-221	63,246	62,990	-256	7,575	7,587	12	8,699	8,354	-345
Women .....	64,565	64,844	279	52,896	53,078	182	8,712	8,746	34	5,844	5,962	118
<b>Employed</b>												
Total, 16 years and over .....	133,119	133,175	56	111,951	111,883	-68	15,105	15,147	42	13,454	13,240	-214
16 to 19 years .....	7,105	7,126	21	6,042	6,056	14	810	812	2	819	826	7
20 to 24 years .....	12,657	12,652	-5	10,585	10,567	-18	1,508	1,514	6	1,910	1,860	-50
25 to 54 years .....	96,117	96,142	25	80,193	80,121	-72	11,296	11,328	32	9,720	9,546	-174
55 years and over .....	17,240	17,256	16	15,131	15,139	8	1,491	1,493	2	1,005	1,008	3
Men .....	71,029	70,825	-204	60,831	60,595	-236	6,973	6,983	10	8,114	7,792	-322
Women .....	62,090	62,350	260	51,119	51,288	169	8,132	8,163	31	5,340	5,448	108
<b>Unemployed</b>												
Total, 16 years and over .....	5,645	5,647	2	4,192	4,185	-7	1,182	1,186	4	1,089	1,076	-13
16 to 19 years .....	1,009	1,014	5	749	752	3	211	211	0	180	183	3
20 to 24 years .....	865	863	-2	577	573	-4	251	252	1	185	179	-6
25 to 54 years .....	3,289	3,287	-2	2,476	2,469	-7	658	660	2	662	652	-10
55 years and over .....	481	482	1	390	391	1	63	63	0	61	62	1
Men .....	3,170	3,153	-17	2,415	2,395	-20	602	603	1	585	562	-23
Women .....	2,475	2,494	19	1,777	1,790	13	580	583	3	504	515	11
<b>Unemployment rate</b>												
Total, 16 years and over .....	4.1	4.1	0	3.6	3.6	0	7.3	7.3	0	7.5	7.5	0
16 to 19 years .....	12.4	12.5	.1	11.0	11.1	.1	20.7	20.7	0	18.0	18.2	2
20 to 24 years .....	6.4	6.4	0	5.2	5.1	-.1	14.2	14.3	.1	8.8	8.8	0
25 to 54 years .....	3.3	3.3	0	3.0	3.0	0	5.5	5.5	0	6.4	6.4	0
55 years and over .....	2.7	2.7	0	2.5	2.5	0	4.0	4.0	0	5.7	5.8	.1
Men .....	4.3	4.3	0	3.8	3.8	0	7.9	8.0	.1	6.7	6.7	0
Women .....	3.8	3.8	0	3.4	3.4	0	6.7	6.7	0	8.6	8.6	0

<sup>1</sup>These are weighted noncomposited estimates and differ from the official weighted composited estimates previously published for December 1998.

totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups. Detail may not sum to totals due to rounding.

NOTE: Detail for the above race and Hispanic-origin group will not sum to

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

(Numbers in thousands)

Category	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Labor force status													
Civilian noninstitutional population .....	204,238	204,400	204,547	204,731	204,899	205,085	205,270	205,479	205,699	205,919	206,104	206,270	206,719
Civilian labor force .....	137,288	137,384	137,340	137,232	137,369	137,498	137,407	137,481	138,081	138,116	138,193	138,547	139,347
Percent of population .....	67.2	67.2	67.1	67.0	67.0	67.0	66.9	66.9	67.1	67.1	67.1	67.2	67.4
Employed .....	130,943	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396
Percent of population .....	64.1	64.1	64.0	64.1	64.1	64.0	63.9	63.9	64.1	64.0	64.1	64.2	64.5
Unemployed .....	6,345	6,363	6,432	5,952	6,039	6,245	6,231	6,217	6,263	6,258	6,080	6,021	5,950
Not in labor force .....	66,950	67,016	67,207	67,499	67,530	67,587	67,863	67,998	67,618	67,803	67,911	67,723	67,372
Unemployment rates													
All workers .....	4.6	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3
Men, 20 years and over .....	3.8	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4
Women, 20 years and over .....	4.2	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7
Both sexes, 16 to 19 years .....	14.2	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5
White .....	4.0	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8	3.8
Black .....	9.4	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9	7.8
Hispanic origin .....	7.0	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6	6.6

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

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

(Numbers in thousands)

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
Employment													
Total .....	124,640	124,832	124,914	125,234	125,562	125,751	125,869	126,191	126,363	126,527	126,804	127,102	127,347
Total private .....	104,954	105,112	105,186	105,470	105,734	105,938	106,043	106,269	106,435	106,579	106,818	107,082	107,291
Goods-producing industries .....	25,297	25,314	25,276	25,339	25,301	25,304	25,135	25,253	25,241	25,209	25,184	25,262	25,255
Mining .....	592	590	587	582	579	578	571	571	568	564	560	555	546
Construction .....	5,881	5,902	5,860	5,930	5,917	5,946	5,970	5,989	5,981	6,012	6,051	6,150	6,165
Manufacturing .....	18,824	18,822	18,829	18,827	18,805	18,780	18,594	18,693	18,692	18,633	18,573	18,557	18,544
Service-producing industries .....	99,343	99,518	99,638	99,895	100,261	100,447	100,734	100,938	101,122	101,318	101,620	101,840	102,092
Transportation and public utilities .....	6,473	6,494	6,504	6,513	6,534	6,538	6,550	6,570	6,579	6,595	6,604	6,629	6,651
Wholesale trade .....	6,759	6,769	6,783	6,798	6,815	6,821	6,827	6,838	6,862	6,864	6,877	6,884	6,912
Retail trade .....	22,280	22,283	22,259	22,335	22,423	22,448	22,547	22,545	22,592	22,589	22,672	22,711	22,741
Finance, insurance, and real estate .....	7,213	7,232	7,258	7,289	7,311	7,333	7,370	7,372	7,393	7,417	7,441	7,459	7,481
Services .....	36,932	37,020	37,106	37,196	37,350	37,494	37,614	37,691	37,768	37,905	38,040	38,137	38,251
Government .....	19,686	19,720	19,728	19,764	19,828	19,813	19,826	19,922	19,928	19,948	19,986	20,020	20,056
Over-the-month change													
Total .....	351	192	82	320	328	189	118	322	172	164	277	298	245
Total private .....	345	158	74	284	264	204	105	226	166	144	239	264	209
Goods-producing industries .....	104	17	-38	63	-38	3	-169	118	-12	-32	-25	78	-7
Mining .....	0	-2	-3	-5	-3	-1	-7	0	-3	-4	-4	-5	-9
Construction .....	71	21	-42	70	-13	29	24	19	-8	31	39	99	15
Manufacturing .....	33	-2	7	-2	-22	-25	-186	99	-1	-59	-60	-16	-13
Service-producing industries .....	247	175	120	257	366	186	287	204	184	196	302	220	252
Transportation and public utilities .....	22	21	10	9	21	4	12	20	9	16	9	25	22
Wholesale trade .....	28	10	14	15	17	6	6	11	24	2	13	7	28
Retail trade .....	35	3	-24	76	88	25	99	-2	47	-3	83	39	30
Finance, insurance, and real estate .....	19	19	26	31	22	22	37	2	21	24	24	18	22
Services .....	137	88	86	90	154	144	120	77	77	137	135	97	114
Government .....	6	34	8	36	64	-15	13	96	6	20	38	34	36
Hours of work <sup>1</sup>													
Total private .....	34.8	34.7	34.6	34.5	34.7	34.6	34.6	34.6	34.4	34.6	34.5	34.6	34.5
Manufacturing .....	42.1	42.0	41.8	41.4	41.8	41.8	41.7	41.7	41.6	41.7	41.7	41.7	41.5
Overtime .....	4.9	4.8	4.8	4.5	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5
Indexes of aggregate weekly hours (1982=100) <sup>1</sup>													
Total private .....	144.6	144.4	143.8	144.0	144.9	144.8	145.2	145.3	144.9	145.8	145.7	146.2	146.2
Manufacturing .....	110.6	110.3	109.7	108.7	109.4	109.0	107.2	108.0	108.0	107.8	107.3	107.4	106.8
Earnings <sup>1</sup>													
Average hourly earnings, total private:													
Current dollars .....	\$12.54	\$12.59	\$12.63	\$12.70	\$12.73	\$12.76	\$12.79	\$12.85	\$12.87	\$12.90	\$12.94	\$12.98	\$13.04
Constant (1982) dollars <sup>2</sup> .....	7.66	7.69	7.72	7.74	7.73	7.75	7.75	7.78	7.79	7.79	7.80	7.81	N.A.
Average weekly earnings, total private .....	436.39	436.87	437.00	438.15	441.73	441.50	442.53	444.61	442.73	446.34	446.43	449.11	449.88

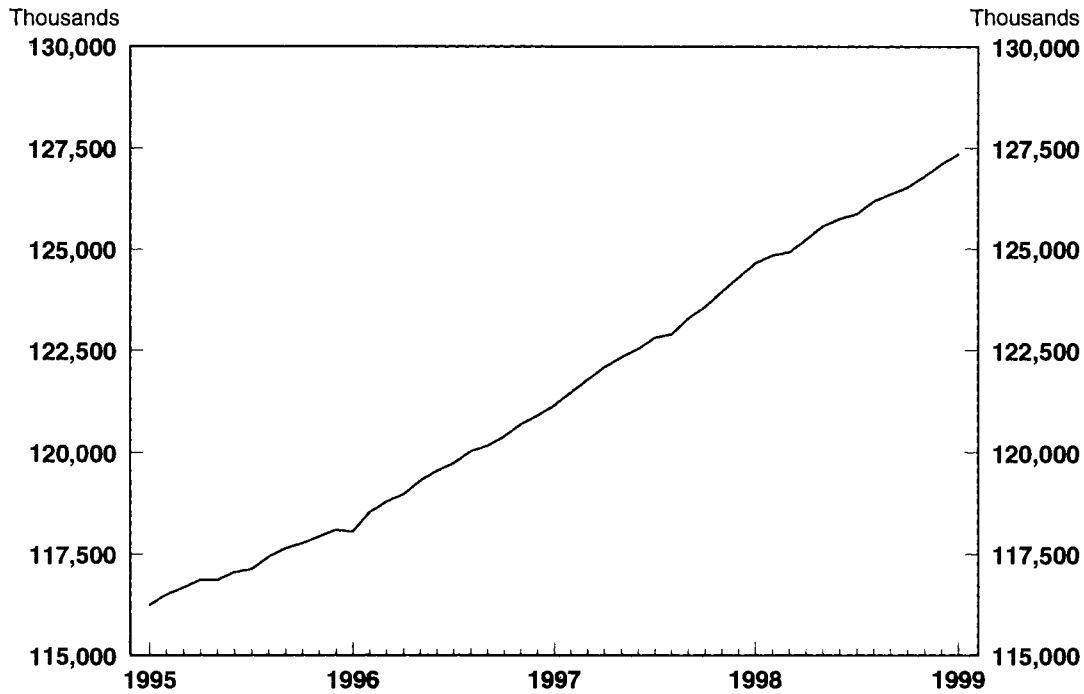
<sup>1</sup> Data relate to private production or nonsupervisory workers

N.A. = not available.

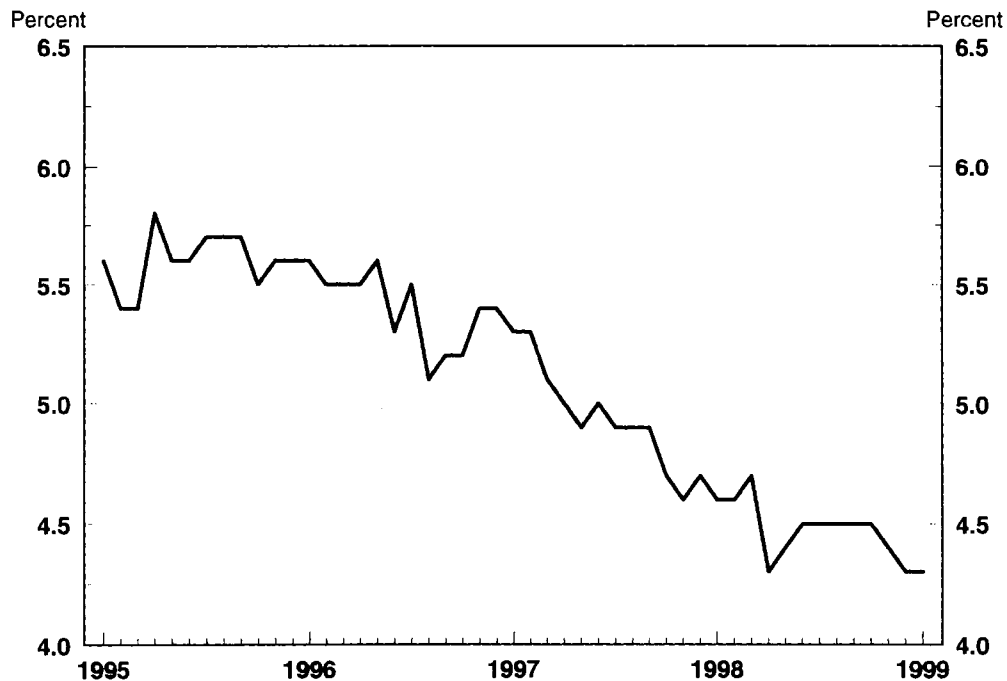
<sup>2</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<sup>P</sup> = preliminary.

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



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



NOTE: Beginning in 1990, data reflect 1990 census-based population controls, adjusted for the estimated undercount. Beginning in 1994, data reflect the introduction of a major redesign of the Current Population Survey. Beginning in 1997, data incorporate revisions in the population controls. Beginning in 1998, data incorporate new composite estimation procedures and updated population controls. Beginning in 1999, data incorporate revisions in the population controls. These changes affect comparability with data for prior periods.

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

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Unemployed		
				Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1965 .....	126,513	74,455	58.9	71,088	56.2	4,361	66,726	3,366	4.5	52,058
1966 .....	128,058	75,770	59.2	72,895	56.9	3,979	68,915	2,875	3.8	52,288
1967 .....	129,874	77,347	59.6	74,372	57.3	3,844	70,527	2,975	3.8	52,527
1968 .....	132,028	78,737	59.6	75,920	57.5	3,817	72,103	2,817	3.6	53,291
1969 .....	134,335	80,734	60.1	77,902	58.0	3,606	74,296	2,832	3.5	53,602
1970 .....	137,085	82,771	60.4	78,678	57.4	3,463	75,215	4,093	4.9	54,315
1971 .....	140,216	84,382	60.2	79,367	56.6	3,394	75,972	5,016	5.9	55,834
1972 <sup>1</sup> .....	144,126	87,034	60.4	82,153	57.0	3,484	78,669	4,882	5.6	57,091
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	57.8	3,470	81,594	4,365	4.9	57,667
1974 .....	150,120	91,949	61.3	86,794	57.8	3,515	83,279	5,156	5.6	58,171
1975 .....	153,153	93,775	61.2	85,846	56.1	3,408	82,438	7,929	8.5	59,377
1976 .....	156,150	96,158	61.6	88,752	56.8	3,331	85,421	7,406	7.7	59,991
1977 .....	159,033	99,009	62.3	92,017	57.9	3,283	88,734	6,991	7.1	60,025
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	59.3	3,387	92,661	6,202	6.1	59,659
1979 .....	164,863	104,962	63.7	98,824	59.9	3,347	95,477	6,137	5.8	59,900
1980 .....	167,745	106,940	63.8	99,303	59.2	3,364	95,938	7,637	7.1	60,806
1981 .....	170,130	108,670	63.9	100,397	59.0	3,368	97,030	8,273	7.6	61,460
1982 .....	172,271	110,204	64.0	99,526	57.8	3,401	96,125	10,678	9.7	62,067
1983 .....	174,215	111,550	64.0	100,834	57.9	3,383	97,450	10,717	9.6	62,665
1984 .....	176,383	113,544	64.4	105,005	59.5	3,321	101,685	8,539	7.5	62,839
1985 .....	178,206	115,461	64.8	107,150	60.1	3,179	103,971	8,312	7.2	62,744
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	60.7	3,163	106,434	8,237	7.0	62,752
1987 .....	182,753	119,865	65.6	112,440	61.5	3,208	109,232	7,425	6.2	62,888
1988 .....	184,613	121,669	65.9	114,968	62.3	3,169	111,800	6,701	5.5	62,944
1989 .....	186,393	123,869	66.5	117,342	63.0	3,199	114,142	6,528	5.3	62,523
1990 <sup>1</sup> .....	189,164	125,840	66.5	118,793	62.8	3,223	115,570	7,047	5.6	63,324
1991 .....	190,925	126,346	66.2	117,718	61.7	3,269	114,449	8,628	6.8	64,578
1992 .....	192,805	128,105	66.4	118,492	61.5	3,247	115,245	9,613	7.5	64,700
1993 .....	194,838	129,200	66.3	120,259	61.7	3,115	117,144	8,940	6.9	65,638
1994 <sup>1</sup> .....	196,814	131,056	66.6	123,060	62.5	3,409	119,651	7,996	6.1	65,758
1995 .....	198,584	132,304	66.6	124,900	62.9	3,440	121,460	7,404	5.6	66,280
1996 .....	200,591	133,943	66.8	126,708	63.2	3,443	123,264	7,236	5.4	66,647
1997 <sup>1</sup> .....	203,133	136,297	67.1	129,558	63.8	3,399	126,159	6,739	4.9	66,837
1998 <sup>1</sup> .....	205,220	137,673	67.1	131,463	64.1	3,378	128,085	6,210	4.5	67,547
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1998:</b>										
January .....	204,238	137,288	67.2	130,943	64.1	3,337	127,606	6,345	4.6	66,950
February .....	204,400	137,384	67.2	131,021	64.1	3,345	127,676	6,363	4.6	67,016
March .....	204,547	137,340	67.1	130,908	64.0	3,173	127,735	6,432	4.7	67,207
April .....	204,731	137,232	67.0	131,280	64.1	3,381	127,899	5,952	4.3	67,499
May .....	204,899	137,369	67.0	131,330	64.1	3,351	127,979	6,039	4.4	67,530
June .....	205,085	137,498	67.0	131,253	64.0	3,363	127,890	6,245	4.5	67,587
July .....	205,270	137,407	66.9	131,176	63.9	3,423	127,753	6,231	4.5	67,863
August .....	205,479	137,481	66.9	131,264	63.9	3,492	127,772	6,217	4.5	67,998
September .....	205,699	138,081	67.1	131,818	64.1	3,470	128,348	6,263	4.5	67,618
October .....	205,919	138,116	67.1	131,858	64.0	3,558	128,300	6,258	4.5	67,803
November .....	206,104	138,193	67.1	132,113	64.1	3,348	128,765	6,080	4.4	67,911
December .....	206,270	138,547	67.2	132,526	64.2	3,222	129,304	6,021	4.3	67,723
<b>1999:</b>										
January <sup>3</sup> .....	206,719	139,347	67.4	133,396	64.5	3,299	130,097	5,950	4.3	67,372

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

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

<sup>3</sup> Beginning in January 1999, data are not strictly comparable with data

for 1998 and earlier years because of revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1999" in the February 1999 issue of this publication.

**HOUSEHOLD DATA  
HISTORICAL**

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

(Numbers in thousands)

Sex, year, and month	Civilian noninsti- tutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Unemployed		
				Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
<b>MEN</b>										
1987 .....	86,899	66,207	76.2	62,107	71.5	2,543	59,564	4,101	6.2	20,692
1988 .....	87,857	66,927	76.2	63,273	72.0	2,493	60,780	3,655	5.5	20,930
1989 .....	88,762	67,840	76.4	64,315	72.5	2,513	61,802	3,525	5.2	20,923
1990 <sup>1</sup> .....	90,377	69,011	76.4	65,104	72.0	2,546	62,559	3,906	5.7	21,367
1991 .....	91,278	69,168	75.8	64,223	70.4	2,589	61,634	4,946	7.2	22,110
1992 .....	92,270	69,964	75.8	64,440	69.8	2,575	61,866	5,523	7.9	22,306
1993 .....	93,332	70,404	75.4	65,349	70.0	2,478	62,871	5,055	7.2	22,927
1994 <sup>1</sup> .....	94,355	70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,538
1995 .....	95,178	71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,818
1996 .....	96,206	72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,119
1997 <sup>1</sup> .....	97,715	73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,454
1998 <sup>1</sup> .....	98,758	73,959	74.9	70,693	71.6	2,553	68,140	3,266	4.4	24,799
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1998:</b>										
January .....	98,241	73,719	75.0	70,387	71.6	2,483	67,904	3,332	4.5	24,522
February .....	98,331	73,735	75.0	70,411	71.6	2,475	67,936	3,324	4.5	24,596
March .....	98,405	73,657	74.9	70,295	71.4	2,380	67,915	3,362	4.6	24,748
April .....	98,503	73,723	74.8	70,695	71.8	2,595	68,100	3,028	4.1	24,780
May .....	98,591	73,792	74.8	70,603	71.6	2,508	68,095	3,189	4.3	24,799
June .....	98,691	73,866	74.8	70,592	71.5	2,541	68,051	3,274	4.4	24,825
July .....	98,785	73,989	74.9	70,629	71.5	2,589	68,040	3,360	4.5	24,796
August .....	98,892	73,754	74.6	70,503	71.3	2,631	67,872	3,251	4.4	25,138
September .....	99,006	74,202	74.9	70,841	71.6	2,644	68,197	3,361	4.5	24,804
October .....	99,121	74,189	74.8	70,925	71.6	2,734	68,191	3,264	4.4	24,932
November .....	99,217	74,345	74.9	71,182	71.7	2,578	68,604	3,163	4.3	24,872
December .....	99,309	74,437	75.0	71,204	71.7	2,414	68,790	3,233	4.3	24,872
<b>1999:</b>										
January <sup>3</sup> .....	99,198	74,599	75.2	71,459	72.0	2,456	69,003	3,140	4.2	24,599
<b>Annual averages</b>										
<b>WOMEN</b>										
1987 .....	95,853	53,658	56.0	50,334	52.5	666	49,668	3,324	6.2	42,195
1988 .....	96,756	54,742	56.6	51,696	53.4	676	51,020	3,046	5.6	42,014
1989 .....	97,630	56,030	57.4	53,027	54.3	687	52,341	3,003	5.4	41,601
1990 <sup>1</sup> .....	98,787	56,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,957
1991 .....	99,646	57,178	57.4	53,496	53.7	680	52,815	3,683	6.4	42,468
1992 .....	100,535	58,141	57.8	54,052	53.8	672	53,380	4,090	7.0	42,394
1993 .....	101,506	58,795	57.9	54,910	54.1	637	54,273	3,885	6.6	42,711
1994 <sup>1</sup> .....	102,460	60,239	58.8	56,610	55.3	855	55,755	3,629	6.0	42,221
1995 .....	103,406	60,944	58.9	57,523	55.6	881	56,642	3,421	5.6	42,462
1996 .....	104,385	61,857	59.3	58,501	56.0	871	57,630	3,356	5.4	42,528
1997 <sup>1</sup> .....	105,418	63,036	59.8	59,873	56.8	847	59,026	3,162	5.0	42,382
1998 <sup>1</sup> .....	106,462	63,714	59.8	60,771	57.1	825	59,945	2,944	4.6	42,748
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1998:</b>										
January .....	105,997	63,569	60.0	60,556	57.1	854	59,702	3,013	4.7	42,428
February .....	106,070	63,649	60.0	60,610	57.1	870	59,740	3,039	4.8	42,421
March .....	106,141	63,683	60.0	60,613	57.1	793	59,820	3,070	4.8	42,458
April .....	106,228	63,509	59.8	60,585	57.0	786	59,799	2,924	4.6	42,719
May .....	106,308	63,577	59.8	60,727	57.1	843	59,884	2,850	4.5	42,731
June .....	106,394	63,632	59.8	60,661	57.0	822	59,839	2,971	4.7	42,762
July .....	106,484	63,418	59.6	60,547	56.9	834	59,713	2,871	4.5	43,066
August .....	106,587	63,727	59.8	60,761	57.0	861	59,900	2,966	4.7	42,860
September .....	106,693	63,879	59.9	60,977	57.2	826	60,151	2,902	4.5	42,814
October .....	106,798	63,927	59.9	60,933	57.1	824	60,109	2,994	4.7	42,871
November .....	106,887	63,848	59.7	60,931	57.0	770	60,161	2,917	4.6	43,039
December .....	106,960	64,110	59.9	61,322	57.3	808	60,514	2,788	4.3	42,850
<b>1999:</b>										
January <sup>3</sup> .....	107,521	64,748	60.2	61,937	57.6	843	61,095	2,810	4.3	42,773

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

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> ..	204,238	204,400	204,547	204,731	204,899	205,085	205,270	205,479	205,699	205,919	206,104	206,270	206,719
Civilian labor force .....	137,288	137,384	137,340	137,232	137,369	137,498	137,407	137,481	138,081	138,116	138,193	138,547	139,347
Percent of population .....	67.2	67.2	67.1	67.0	67.0	67.0	66.9	66.9	67.1	67.1	67.1	67.2	67.4
Employed .....	130,943	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396
Employment-population ratio .....	64.1	64.1	64.0	64.1	64.1	64.0	63.9	63.9	64.1	64.0	64.1	64.2	64.5
Unemployed .....	6,345	6,363	6,432	5,952	6,039	6,245	6,231	6,217	6,263	6,258	6,080	6,021	5,950
Unemployment rate .....	4.6	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3
<b>Men, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	98,241	98,331	98,405	98,503	98,591	98,691	98,785	98,892	99,006	99,121	99,217	99,309	99,198
Civilian labor force .....	73,719	73,735	73,657	73,723	73,792	73,866	73,989	73,754	74,202	74,189	74,345	74,437	74,599
Percent of population .....	75.0	75.0	74.9	74.8	74.8	74.8	74.9	74.6	74.9	74.8	74.9	75.0	75.2
Employed .....	70,387	70,411	70,295	70,695	70,603	70,592	70,629	70,503	70,841	70,925	71,182	71,204	71,459
Employment-population ratio .....	71.6	71.6	71.4	71.8	71.6	71.5	71.5	71.3	71.6	71.6	71.7	71.7	72.0
Agriculture .....	2,483	2,475	2,380	2,595	2,508	2,541	2,589	2,631	2,644	2,734	2,578	2,414	2,456
Nonagricultural industries .....	67,904	67,936	67,915	68,100	68,095	68,051	68,040	67,872	68,197	68,191	68,604	68,790	69,003
Unemployed .....	3,332	3,324	3,362	3,028	3,189	3,274	3,360	3,251	3,361	3,264	3,163	3,233	3,140
Unemployment rate .....	4.5	4.5	4.6	4.1	4.3	4.4	4.5	4.4	4.5	4.4	4.3	4.3	4.2
Not in labor force .....	24,522	24,596	24,748	24,780	24,799	24,825	24,796	25,138	24,804	24,932	24,872	24,872	24,599
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	90,391	90,476	90,502	90,580	90,622	90,700	90,802	90,889	91,003	91,101	91,192	91,220	91,124
Civilian labor force .....	69,547	69,559	69,446	69,616	69,608	69,590	69,738	69,518	69,869	69,913	70,023	70,069	70,295
Percent of population .....	76.9	76.9	76.7	76.9	76.8	76.7	76.8	76.5	76.8	76.7	76.8	76.8	77.1
Employed .....	66,892	66,927	66,769	67,173	67,084	66,994	67,056	66,940	67,262	67,362	67,573	67,553	67,884
Employment-population ratio .....	74.0	74.0	73.8	74.2	74.0	73.9	73.8	73.7	73.9	73.9	74.1	74.1	74.5
Agriculture .....	2,303	2,297	2,194	2,423	2,331	2,337	2,382	2,420	2,402	2,449	2,374	2,237	2,312
Nonagricultural industries .....	64,589	64,630	64,575	64,750	64,753	64,657	64,674	64,520	64,860	64,913	65,199	65,316	65,572
Unemployed .....	2,655	2,632	2,677	2,443	2,524	2,596	2,682	2,578	2,607	2,551	2,450	2,516	2,411
Unemployment rate .....	3.8	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4
Not in labor force .....	20,844	20,917	21,056	20,964	21,014	21,110	21,064	21,371	21,134	21,188	21,169	21,151	20,829
<b>Women, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	105,997	106,070	106,141	106,228	106,308	106,394	106,484	106,587	106,693	106,798	106,887	106,960	107,521
Civilian labor force .....	63,569	63,649	63,683	63,509	63,577	63,632	63,418	63,727	63,879	63,927	63,848	64,110	64,748
Percent of population .....	60.0	60.0	60.0	59.8	59.8	59.8	59.6	59.8	59.9	59.9	59.7	59.9	60.2
Employed .....	60,556	60,610	60,613	60,585	60,727	60,661	60,547	60,761	60,977	60,933	60,931	61,322	61,937
Employment-population ratio .....	57.1	57.1	57.1	57.0	57.1	57.0	56.9	57.0	57.2	57.1	57.0	57.3	57.6
Agriculture .....	854	870	793	786	843	822	834	861	826	824	770	808	843
Nonagricultural industries .....	59,702	59,740	59,820	59,799	59,884	59,839	59,713	59,900	60,151	60,109	60,161	60,514	61,095
Unemployed .....	3,013	3,039	3,070	2,924	2,850	2,971	2,871	2,966	2,902	2,994	2,917	2,788	2,810
Unemployment rate .....	4.7	4.8	4.8	4.6	4.5	4.7	4.5	4.7	4.5	4.7	4.6	4.3	4.3
Not in labor force .....	42,428	42,421	42,458	42,719	42,731	42,762	43,066	42,860	42,814	42,871	43,039	42,850	42,773
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	98,420	98,471	98,534	98,583	98,668	98,735	98,778	98,901	98,994	99,037	99,135	99,181	99,686
Civilian labor force .....	59,583	59,625	59,666	59,539	59,583	59,613	59,465	59,708	59,804	59,826	59,896	60,078	60,718
Percent of population .....	60.5	60.6	60.6	60.4	60.4	60.4	60.2	60.4	60.4	60.4	60.4	60.6	60.9
Employed .....	57,051	57,097	57,136	57,117	57,235	57,190	57,078	57,295	57,426	57,437	57,503	57,745	58,466
Employment-population ratio .....	58.0	58.0	58.0	57.9	58.0	57.9	57.8	57.9	58.0	58.0	58.0	58.2	58.7
Agriculture .....	805	799	734	726	767	763	781	806	767	771	734	753	808
Nonagricultural industries .....	56,246	56,298	56,402	56,391	56,468	56,427	56,297	56,489	56,659	56,666	56,769	56,992	57,659
Unemployed .....	2,532	2,528	2,530	2,422	2,348	2,423	2,387	2,413	2,378	2,389	2,393	2,333	2,251
Unemployment rate .....	4.2	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7
Not in labor force .....	38,837	38,846	38,868	39,044	39,085	39,122	39,313	39,193	39,190	39,211	39,239	39,103	38,968
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> ..	15,427	15,453	15,511	15,569	15,609	15,651	15,690	15,689	15,702	15,781	15,777	15,868	15,909
Civilian labor force .....	8,158	8,200	8,228	8,077	8,178	8,295	8,204	8,255	8,408	8,377	8,274	8,400	8,334
Percent of population .....	52.9	53.1	53.0	51.9	52.4	53.0	52.3	52.6	53.5	53.1	52.4	52.9	52.4
Employed .....	7,000	6,997	7,003	6,990	7,011	7,069	7,042	7,029	7,130	7,059	7,037	7,228	7,046
Employment-population ratio .....	45.4	45.3	45.1	44.9	44.9	45.2	44.9	44.8	44.7	44.7	44.6	45.5	44.3
Agriculture .....	229	249	245	232	253	263	260	266	301	338	240	232	179
Nonagricultural industries .....	6,771	6,748	6,758	6,758	6,758	6,806	6,782	6,763	6,829	6,721	6,797	6,996	6,867
Unemployed .....	1,158	1,203	1,225	1,087	1,167	1,226	1,162	1,226	1,278	1,318	1,237	1,172	1,288
Unemployment rate .....	14.2	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5
Not in labor force .....	7,269	7,253	7,283	7,492	7,431	7,356	7,486	7,434	7,294	7,404	7,503	7,468	7,575

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

NOTE: Detail for the seasonally adjusted data shown in tables A-3 through A-13 will not necessarily add to totals because of the independent seasonal

adjustment of the various series. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> ..	170,810	170,917	171,016	171,141	171,257	171,387	171,513	171,655	171,804	171,956	172,084	172,197	172,394
Civilian labor force .....	115,226	115,271	115,184	115,121	115,312	115,208	115,071	115,385	115,751	115,714	115,687	115,996	116,529
Percent of population .....	67.5	67.4	67.4	67.3	67.3	67.2	67.1	67.2	67.4	67.3	67.2	67.4	67.6
Employed .....	110,659	110,731	110,556	110,858	110,959	110,638	110,676	110,848	111,221	111,162	111,304	111,560	112,135
Employment-population ratio .....	64.8	64.8	64.6	64.8	64.8	64.6	64.5	64.6	64.7	64.6	64.7	64.8	65.0
Unemployed .....	4,567	4,540	4,628	4,263	4,353	4,570	4,395	4,537	4,530	4,552	4,383	4,436	4,394
Unemployment rate .....	4.0	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8	3.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	59,277	59,314	59,179	59,324	59,338	59,298	59,406	59,384	59,587	59,579	59,634	59,712	59,751
Percent of population .....	77.3	77.3	77.1	77.2	77.2	77.1	77.2	77.1	77.3	77.2	77.2	77.2	77.5
Employed .....	57,320	57,378	57,201	57,538	57,452	57,348	57,447	57,450	57,615	57,646	57,806	57,813	57,920
Employment-population ratio .....	74.8	74.8	74.5	74.9	74.7	74.6	74.6	74.6	74.7	74.7	74.8	74.8	75.1
Unemployed .....	1,957	1,936	1,978	1,786	1,886	1,950	1,959	1,934	1,972	1,933	1,828	1,899	1,831
Unemployment rate .....	3.3	3.3	3.3	3.0	3.2	3.3	3.3	3.3	3.3	3.2	3.1	3.2	3.1
<b>Women, 20 years and over</b>													
Civilian labor force .....	49,046	49,031	49,028	48,972	49,048	48,930	48,770	49,025	49,108	49,062	49,065	49,230	49,759
Percent of population .....	59.9	59.9	59.9	59.8	59.8	59.6	59.4	59.7	59.8	59.7	59.6	59.8	60.2
Employed .....	47,252	47,283	47,271	47,304	47,423	47,244	47,129	47,321	47,456	47,401	47,415	47,585	48,110
Employment-population ratio .....	57.7	57.7	57.7	57.7	57.8	57.6	57.4	57.6	57.7	57.6	57.6	57.8	58.2
Unemployed .....	1,794	1,748	1,757	1,668	1,625	1,686	1,641	1,704	1,652	1,661	1,650	1,645	1,650
Unemployment rate .....	3.7	3.6	3.6	3.4	3.3	3.4	3.4	3.5	3.4	3.4	3.4	3.3	3.3
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,903	6,926	6,977	6,825	6,926	6,980	6,895	6,976	7,056	7,073	6,988	7,054	7,019
Percent of population .....	56.2	56.3	56.6	55.2	55.8	56.1	55.3	55.8	56.4	56.4	55.7	56.1	55.6
Employed .....	6,087	6,070	6,084	6,016	6,084	6,046	6,100	6,077	6,150	6,115	6,083	6,162	6,105
Employment-population ratio .....	49.6	49.3	49.3	48.6	49.0	48.6	48.9	48.6	49.1	48.8	48.5	49.0	48.4
Unemployed .....	816	856	893	809	842	934	795	899	906	958	905	892	913
Unemployment rate .....	11.8	12.4	12.8	11.9	12.2	13.4	11.5	12.9	12.8	13.5	13.0	12.6	13.0
Men .....	14.1	14.4	14.7	12.9	14.0	14.4	13.2	14.2	14.7	14.1	14.1	14.5	14.1
Women .....	9.4	10.1	10.7	10.7	10.1	12.3	9.7	11.5	10.8	13.0	11.6	10.6	11.9
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> ..	24,196	24,229	24,257	24,289	24,317	24,349	24,381	24,418	24,458	24,496	24,529	24,561	24,665
Civilian labor force .....	15,770	15,834	15,931	15,901	15,760	16,025	16,045	15,937	16,027	16,163	16,201	16,157	16,356
Percent of population .....	65.2	65.4	65.7	65.5	64.8	65.8	65.8	65.3	65.5	66.0	66.0	65.8	66.3
Employed .....	14,288	14,340	14,463	14,477	14,351	14,662	14,511	14,517	14,584	14,776	14,804	14,884	15,085
Employment-population ratio .....	59.1	59.2	59.6	59.6	59.0	60.2	59.5	59.5	59.6	60.3	60.4	60.6	61.2
Unemployed .....	1,482	1,494	1,468	1,424	1,409	1,363	1,534	1,420	1,443	1,387	1,397	1,273	1,271
Unemployment rate .....	9.4	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9	7.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,998	6,993	7,037	7,077	7,005	7,080	7,111	7,021	6,999	7,144	7,086	7,063	7,210
Percent of population .....	72.5	72.3	72.7	73.0	72.2	72.9	73.1	72.1	71.7	73.1	72.4	72.0	73.3
Employed .....	6,442	6,448	6,503	6,548	6,523	6,574	6,491	6,487	6,499	6,653	6,590	6,588	6,782
Employment-population ratio .....	66.7	66.7	67.2	67.6	67.2	67.7	66.7	66.6	66.6	68.0	67.3	67.2	68.9
Unemployed .....	556	545	534	529	482	506	620	534	500	491	496	475	428
Unemployment rate .....	7.9	7.8	7.6	7.5	6.9	7.1	8.7	7.6	7.1	6.9	7.0	6.7	5.9
<b>Women, 20 years and over</b>													
Civilian labor force .....	7,802	7,895	7,902	7,830	7,792	7,870	7,916	7,903	7,948	7,992	8,051	8,035	8,114
Percent of population .....	64.3	65.0	65.0	64.4	64.0	64.6	64.9	64.7	64.9	65.2	65.6	65.4	65.7
Employed .....	7,169	7,238	7,256	7,192	7,146	7,255	7,294	7,302	7,320	7,391	7,443	7,474	7,579
Employment-population ratio .....	59.1	59.6	59.7	59.1	58.7	59.5	59.8	59.7	59.8	60.3	60.6	60.8	61.3
Unemployed .....	633	657	646	638	646	615	622	601	628	601	608	561	535
Unemployment rate .....	8.1	8.3	8.2	8.1	8.3	7.8	7.9	7.6	7.9	7.5	7.6	7.0	6.6

See footnotes at end of table.



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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	970	946	992	994	963	1,075	1,018	1,013	1,080	1,027	1,064	1,059	1,032
Percent of population .....	40.2	39.1	40.9	40.8	39.5	44.0	41.5	41.3	44.0	41.8	43.3	43.0	41.8
Employed .....	677	654	704	737	682	833	726	728	765	732	771	822	725
Employment-population ratio .....	28.0	27.0	29.0	30.3	27.9	34.1	29.6	29.7	31.1	29.8	31.4	33.4	29.3
Unemployed .....	293	292	288	257	281	242	292	285	315	295	293	237	307
Unemployment rate .....	30.2	30.9	29.0	25.9	29.2	22.5	28.7	28.1	29.2	28.7	27.5	22.4	29.8
Men .....	31.7	34.0	28.5	26.0	31.2	22.4	30.2	29.7	32.7	34.7	33.0	27.3	34.2
Women .....	28.8	28.0	29.5	25.7	27.4	22.6	27.0	26.8	25.7	23.5	22.1	17.6	25.0
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> ..	20,741	20,798	20,851	20,915	20,975	21,036	21,097	21,159	21,224	21,286	21,349	21,405	21,296
Civilian labor force .....	14,020	14,145	14,254	14,289	14,378	14,375	14,267	14,316	14,457	14,437	14,389	14,488	14,511
Percent of population .....	67.6	68.0	68.4	68.3	68.5	68.3	67.6	67.7	68.1	67.8	67.4	67.7	68.1
Employed .....	13,038	13,165	13,263	13,332	13,387	13,301	13,245	13,257	13,394	13,382	13,345	13,383	13,550
Employment-population ratio .....	62.9	63.3	63.6	63.7	63.8	63.2	62.8	62.7	63.1	62.9	62.5	62.5	63.6
Unemployed .....	982	980	991	957	991	1,074	1,022	1,059	1,063	1,055	1,044	1,105	960
Unemployment rate .....	7.0	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6	6.6

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

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

are included in both the white and black population groups. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Educational attainment	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>Less than a high school diploma</b>													
Civilian noninstitutional population <sup>1</sup> .....	29,981	29,228	29,251	29,638	29,931	30,064	29,027	29,204	29,290	28,713	29,084	29,094	28,901
Civilian labor force .....	12,629	12,561	12,516	12,624	12,630	12,784	12,561	12,496	12,563	12,408	12,463	12,500	12,379
Percent of population .....	42.1	43.0	42.8	42.6	42.2	42.5	43.3	42.8	42.9	43.2	42.9	43.0	42.8
Employed .....	11,715	11,670	11,622	11,729	11,762	11,873	11,665	11,612	11,692	11,556	11,574	11,626	11,459
Employment-population ratio .....	39.1	39.9	39.7	39.6	39.3	39.5	40.2	39.8	39.9	40.2	39.8	40.0	39.7
Unemployed .....	914	891	894	895	868	911	896	884	871	852	889	874	920
Unemployment rate .....	7.2	7.1	7.1	7.1	6.9	7.1	7.1	7.1	6.9	6.9	7.1	7.0	7.4
<b>High school graduates, no college<sup>2</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	57,606	57,418	57,885	57,484	57,706	57,446	57,374	57,729	57,589	57,666	57,273	57,115	57,477
Civilian labor force .....	37,745	37,730	37,850	37,412	37,488	37,171	37,290	37,367	37,289	37,540	37,408	37,296	37,590
Percent of population .....	65.5	65.7	65.4	65.1	65.0	64.7	65.0	64.7	64.8	65.1	65.3	65.3	65.4
Employed .....	36,249	36,225	36,262	35,935	36,071	35,681	35,779	35,883	35,783	36,056	35,947	35,873	36,291
Employment-population ratio .....	62.9	63.1	62.6	62.5	62.5	62.1	62.4	62.2	62.1	62.5	62.8	62.8	63.1
Unemployed .....	1,496	1,505	1,588	1,477	1,417	1,490	1,511	1,484	1,506	1,484	1,461	1,423	1,299
Unemployment rate .....	4.0	4.0	4.2	3.9	3.8	4.0	4.1	4.0	4.0	4.0	3.9	3.8	3.5
<b>Less than a bachelor's degree<sup>3</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	41,718	42,527	42,313	42,303	42,024	41,880	42,293	41,842	41,769	42,573	42,863	43,022	43,154
Civilian labor force .....	31,385	31,418	31,459	31,435	31,411	31,283	31,220	31,117	31,271	31,349	31,727	31,800	32,399
Percent of population .....	75.2	73.9	74.3	74.3	74.7	74.7	73.8	74.4	74.9	73.6	74.0	73.9	75.1
Employed .....	30,383	30,448	30,448	30,572	30,447	30,371	30,274	30,231	30,343	30,423	30,825	30,911	31,470
Employment-population ratio .....	72.8	71.6	72.0	72.3	72.5	72.5	71.6	72.3	72.6	71.5	71.9	71.8	72.9
Unemployed .....	1,002	970	1,011	863	964	912	946	886	928	926	902	889	929
Unemployment rate .....	3.2	3.1	3.2	2.7	3.1	2.9	3.0	2.8	3.0	3.0	2.8	2.8	2.9
<b>College graduates</b>													
Civilian noninstitutional population <sup>1</sup> .....	41,974	42,238	42,085	42,197	42,090	42,464	43,309	43,431	43,669	43,520	43,408	43,484	43,516
Civilian labor force .....	33,698	33,742	33,833	34,039	34,028	34,281	34,637	34,739	34,914	34,779	34,554	34,838	34,950
Percent of population .....	80.3	79.9	80.4	80.7	80.8	80.7	80.0	80.0	80.0	79.9	79.6	80.1	80.3
Employed .....	33,067	33,114	33,210	33,456	33,451	33,681	34,051	34,129	34,335	34,108	33,922	34,205	34,325
Employment-population ratio .....	78.8	78.4	78.9	79.3	79.5	79.3	78.6	78.6	78.6	78.4	78.1	78.7	78.9
Unemployed .....	631	628	623	583	577	600	586	610	579	671	632	633	624
Unemployment rate .....	1.9	1.9	1.8	1.7	1.7	1.8	1.7	1.8	1.7	1.9	1.8	1.8	1.8

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

<sup>2</sup> Includes high school diploma or equivalent.

<sup>3</sup> Includes the categories, some college, no degree; and associate degree.

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

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

(Numbers in thousands)

Full- and part-time status, sex, and age	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>EMPLOYED</b>													
Full-time workers .....	107,642	107,712	107,741	107,992	108,048	107,748	107,856	108,150	108,512	108,561	109,016	109,483	110,307
Men, 16 years and over .....	62,858	62,830	62,841	63,045	63,055	63,108	63,138	63,202	63,216	63,417	63,726	63,829	64,138
Men, 20 years and over .....	61,586	61,557	61,537	61,750	61,721	61,721	61,729	61,808	61,911	62,039	62,312	62,375	62,795
Women, 16 years and over .....	44,698	44,787	44,839	44,910	44,943	44,656	44,845	45,097	45,344	45,154	45,289	45,604	46,042
Women, 20 years and over .....	43,790	43,834	43,841	43,944	43,967	43,756	43,819	44,019	44,265	44,231	44,387	44,675	45,148
Both sexes, 16 to 19 years .....	2,266	2,321	2,363	2,298	2,360	2,271	2,308	2,323	2,336	2,291	2,317	2,433	2,364
Part-time workers .....	23,364	23,241	23,339	23,207	23,239	23,460	23,231	22,975	23,284	23,281	23,249	23,258	23,198
Men, 16 years and over .....	7,467	7,518	7,531	7,594	7,468	7,485	7,496	7,332	7,644	7,490	7,554	7,490	7,236
Men, 20 years and over .....	5,278	5,303	5,307	5,362	5,294	5,256	5,322	5,181	5,364	5,295	5,332	5,272	5,070
Women, 16 years and over .....	15,817	15,736	15,794	15,637	15,769	16,027	15,732	15,638	15,682	15,797	15,690	15,770	15,862
Women, 20 years and over .....	13,289	13,231	13,325	13,160	13,245	13,446	13,258	13,230	13,154	13,197	13,125	13,134	13,348
Both sexes, 16 to 19 years .....	4,797	4,707	4,707	4,685	4,700	4,758	4,651	4,564	4,766	4,789	4,792	4,852	4,780
<b>UNEMPLOYED</b>													
Looking for full-time work .....	5,048	5,093	5,079	4,763	4,877	4,915	4,943	4,919	4,916	4,871	4,736	4,781	4,708
Men, 16 years and over .....	2,702	2,687	2,741	2,538	2,690	2,768	2,823	2,739	2,788	2,698	2,611	2,675	2,529
Men, 20 years and over .....	2,446	2,410	2,449	2,219	2,337	2,399	2,461	2,364	2,383	2,324	2,235	2,319	2,235
Women, 16 years and over .....	2,284	2,330	2,292	2,249	2,176	2,221	2,077	2,209	2,159	2,215	2,179	2,131	2,063
Women, 20 years and over .....	2,037	2,115	2,025	1,991	1,933	1,936	1,918	1,959	1,924	1,944	1,918	1,891	1,802
Both sexes, 16 to 19 years .....	565	568	605	553	607	580	564	596	609	603	583	571	671
Looking for part-time work .....	1,325	1,277	1,386	1,192	1,194	1,288	1,283	1,298	1,298	1,362	1,340	1,263	1,272
Men, 16 years and over .....	549	569	569	526	523	564	551	539	571	594	577	581	489
Men, 20 years and over .....	212	220	226	224	196	193	221	205	213	223	219	209	180
Women, 16 years and over .....	757	720	803	705	698	753	749	744	708	748	757	663	752
Women, 20 years and over .....	494	448	530	436	417	482	482	459	424	442	464	412	447
Both sexes, 16 to 19 years .....	619	609	630	532	581	613	580	634	661	697	657	642	645
<b>UNEMPLOYMENT RATES<sup>1</sup></b>													
Full-time workers .....	4.5	4.5	4.5	4.2	4.3	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.1
Men, 16 years and over .....	4.1	4.1	4.2	3.9	4.1	4.2	4.3	4.2	4.2	4.1	3.9	4.0	3.8
Men, 20 years and over .....	3.8	3.8	3.8	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4
Women, 16 years and over .....	4.9	4.9	4.9	4.8	4.6	4.7	4.4	4.7	4.5	4.7	4.6	4.5	4.3
Women, 20 years and over .....	4.4	4.6	4.4	4.3	4.2	4.2	4.2	4.3	4.2	4.2	4.1	4.1	3.8
Both sexes, 16 to 19 years .....	20.0	19.7	20.4	19.4	20.5	20.3	19.6	20.4	20.7	20.8	20.1	19.0	22.1
Part-time workers .....	5.4	5.2	5.6	4.9	4.9	5.2	5.2	5.3	5.3	5.5	5.4	5.2	5.2
Men, 16 years and over .....	6.8	7.0	7.0	6.5	6.5	7.0	6.8	6.8	7.0	7.3	7.1	7.2	6.3
Men, 20 years and over .....	3.9	4.0	4.1	4.0	3.6	3.5	4.0	3.8	3.8	4.0	3.9	3.8	3.4
Women, 16 years and over .....	4.6	4.4	4.8	4.3	4.2	4.5	4.5	4.5	4.3	4.5	4.6	4.0	4.5
Women, 20 years and over .....	3.6	3.3	3.8	3.2	3.1	3.5	3.5	3.4	3.1	3.2	3.4	3.0	3.2
Both sexes, 16 to 19 years .....	11.4	11.5	11.8	10.2	11.0	11.4	11.1	12.2	12.2	12.7	12.1	11.7	11.9

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Category	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>MARITAL STATUS</b>													
Total .....	130,943	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396
Married men, spouse present .....	42,894	42,869	42,789	42,860	42,560	42,648	42,850	42,874	43,170	43,090	43,209	43,227	43,542
Married women, spouse present .....	32,837	32,829	32,853	32,919	32,815	32,820	32,719	32,670	32,891	33,037	32,953	33,093	33,652
Women who maintain families .....	7,797	7,872	7,802	7,829	7,854	7,909	7,875	7,928	7,984	7,940	7,969	8,087	8,076
<b>OCCUPATION</b>													
Managerial and professional specialty .....	38,124	38,210	38,433	38,617	38,681	38,786	39,020	38,942	39,553	39,679	39,459	39,729	39,836
Technical, sales, and administrative support .....	38,462	38,519	38,631	38,568	38,493	38,573	38,513	38,843	38,478	38,431	38,430	38,307	38,846
Service occupations .....	18,089	17,899	17,796	17,527	17,776	17,856	17,683	17,770	17,926	17,692	18,024	17,976	18,070
Precision production, craft, and repair .....	14,298	14,368	14,552	14,566	14,766	14,466	14,334	14,158	14,045	14,192	14,552	14,685	14,751
Operators, fabricators, and laborers .....	18,556	18,526	18,226	18,374	18,284	18,152	18,157	17,968	18,118	18,168	18,067	18,480	18,476
Farming, forestry, and fishing .....	3,418	3,477	3,326	3,494	3,487	3,513	3,519	3,590	3,585	3,604	3,538	3,396	3,422
<b>CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,929	1,936	1,905	1,990	1,920	1,857	2,010	2,111	2,145	2,247	2,005	1,912	1,987
Self-employed workers .....	1,367	1,362	1,264	1,345	1,391	1,445	1,374	1,342	1,290	1,282	1,304	1,304	1,298
Unpaid family workers .....	44	42	34	33	50	44	32	31	40	33	40	34	30
Nonagricultural industries:													
Wage and salary workers .....	118,491	118,704	118,797	118,705	118,852	118,733	118,647	118,840	119,148	119,275	119,718	120,380	121,115
Private industries .....	100,184	100,402	100,673	100,474	100,690	100,266	100,273	100,508	100,700	100,728	101,111	101,694	102,202
Private households .....	981	1,017	997	996	992	962	966	871	918	946	969	943	881
Other industries .....	99,203	99,385	99,676	99,478	99,698	99,304	99,307	99,637	99,782	99,782	100,142	100,751	101,321
Government .....	18,307	18,302	18,124	18,231	18,162	18,467	18,374	18,332	18,448	18,547	18,607	18,686	18,913
Self-employed workers .....	8,958	8,826	8,831	9,064	9,012	8,971	9,060	8,955	9,096	9,030	8,929	8,814	8,830
Unpaid family workers .....	115	113	105	119	95	97	91	88	88	95	112	122	121
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,015	3,864	3,866	3,755	3,754	3,792	3,757	3,503	3,419	3,404	3,340	3,417	3,562
Slack work or business conditions .....	2,254	2,145	2,183	2,095	2,119	2,183	2,299	2,019	1,913	2,031	1,910	1,927	2,093
Could only find part-time work .....	1,388	1,415	1,398	1,308	1,317	1,248	1,213	1,188	1,168	1,136	1,157	1,148	1,115
Part time for noneconomic reasons .....	18,429	18,407	18,434	18,296	18,544	18,619	18,589	18,653	18,687	18,667	18,634	18,674	18,485
Nonagricultural industries:													
Part time for economic reasons .....	3,829	3,714	3,698	3,606	3,608	3,618	3,606	3,339	3,191	3,253	3,191	3,257	3,413
Slack work or business conditions .....	2,138	2,044	2,062	2,010	2,033	2,102	2,193	1,926	1,800	1,927	1,824	1,841	1,989
Could only find part-time work .....	1,361	1,390	1,370	1,282	1,286	1,210	1,182	1,155	1,132	1,110	1,130	1,116	1,094
Part time for noneconomic reasons .....	17,793	17,791	17,872	17,653	17,956	17,992	17,982	18,031	18,161	18,107	18,110	18,155	17,921

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

holidays, illness, and bad weather.

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

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

(In thousands)

Age and sex	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over .....	130,943	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396
16 to 24 years .....	19,553	19,540	19,492	19,615	19,568	19,569	19,471	19,490	19,676	19,757	19,705	19,859	19,891
16 to 19 years .....	7,000	6,997	7,003	6,990	7,011	7,069	7,042	7,029	7,130	7,059	7,037	7,228	7,046
16 to 17 years .....	2,806	2,779	2,804	2,797	2,746	2,710	2,752	2,730	2,788	2,721	2,709	2,808	2,751
18 to 19 years .....	4,196	4,206	4,206	4,189	4,264	4,392	4,302	4,286	4,339	4,332	4,340	4,419	4,313
20 to 24 years .....	12,553	12,543	12,489	12,625	12,557	12,500	12,429	12,461	12,546	12,698	12,668	12,631	12,846
25 years and over .....	111,417	111,442	111,397	111,669	111,810	111,681	111,679	111,820	112,115	112,126	112,409	112,654	113,557
25 to 54 years .....	95,055	95,079	95,063	95,168	95,181	95,134	95,102	95,212	95,364	95,309	95,623	95,822	96,713
55 years and over .....	16,355	16,421	16,383	16,478	16,553	16,503	16,647	16,607	16,783	16,771	16,781	16,871	16,836
Men, 16 years and over .....	70,387	70,411	70,295	70,695	70,603	70,592	70,629	70,503	70,841	70,925	71,182	71,204	71,459
16 to 24 years .....	10,149	10,128	10,133	10,213	10,138	10,203	10,118	10,141	10,206	10,246	10,332	10,347	10,320
16 to 19 years .....	3,495	3,484	3,526	3,522	3,519	3,598	3,573	3,563	3,579	3,563	3,609	3,651	3,574
16 to 17 years .....	1,449	1,401	1,433	1,428	1,384	1,381	1,396	1,377	1,393	1,348	1,380	1,405	1,427
18 to 19 years .....	2,058	2,087	2,100	2,101	2,131	2,247	2,180	2,177	2,172	2,213	2,218	2,243	2,170
20 to 24 years .....	6,654	6,644	6,607	6,691	6,619	6,605	6,545	6,578	6,627	6,683	6,723	6,696	6,745
25 years and over .....	60,243	60,258	60,152	60,467	60,502	60,380	60,508	60,444	60,617	60,680	60,840	60,843	61,148
25 to 54 years .....	51,180	51,186	51,160	51,311	51,273	51,182	51,205	51,167	51,232	51,299	51,606	51,502	51,811
55 years and over .....	9,069	9,113	9,015	9,124	9,207	9,162	9,327	9,238	9,386	9,340	9,311	9,374	9,362
Women, 16 years and over .....	60,556	60,610	60,613	60,585	60,727	60,661	60,547	60,761	60,977	60,933	60,931	61,322	61,937
16 to 24 years .....	9,404	9,412	9,359	9,402	9,430	9,366	9,353	9,349	9,470	9,511	9,373	9,512	9,572
16 to 19 years .....	3,505	3,513	3,477	3,468	3,492	3,471	3,469	3,466	3,551	3,496	3,428	3,577	3,471
16 to 17 years .....	1,357	1,378	1,371	1,369	1,362	1,329	1,356	1,353	1,395	1,373	1,329	1,403	1,324
18 to 19 years .....	2,138	2,119	2,106	2,088	2,133	2,145	2,122	2,109	2,167	2,119	2,122	2,176	2,142
20 to 24 years .....	5,899	5,899	5,882	5,934	5,938	5,895	5,884	5,883	5,919	6,015	5,945	5,935	6,101
25 years and over .....	51,174	51,184	51,245	51,202	51,308	51,301	51,171	51,376	51,498	51,446	51,569	51,811	52,410
25 to 54 years .....	43,875	43,893	43,903	43,857	43,908	43,952	43,897	44,045	44,132	44,010	44,017	44,320	44,902
55 years and over .....	7,286	7,308	7,368	7,354	7,346	7,341	7,320	7,369	7,397	7,431	7,470	7,497	7,474

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over .....	6,345	6,363	6,432	5,952	6,039	6,245	6,231	6,217	6,263	6,258	6,080	6,021	5,950
16 to 24 years .....	2,375	2,350	2,321	2,122	2,215	2,329	2,267	2,366	2,400	2,320	2,171	2,153	2,240
16 to 19 years .....	1,158	1,203	1,225	1,087	1,167	1,226	1,162	1,226	1,278	1,318	1,237	1,172	1,288
16 to 17 years .....	584	622	572	521	535	593	513	565	596	607	595	573	619
18 to 19 years .....	559	567	655	576	640	634	646	669	679	704	646	611	653
20 to 24 years .....	1,217	1,147	1,096	1,035	1,048	1,103	1,105	1,140	1,122	1,002	934	981	952
25 years and over .....	4,011	3,999	4,115	3,815	3,845	3,901	3,930	3,865	3,894	3,931	3,879	3,864	3,743
25 to 54 years .....	3,576	3,561	3,661	3,365	3,385	3,455	3,437	3,419	3,416	3,475	3,377	3,340	3,257
55 years and over .....	457	450	476	434	423	432	483	449	464	466	516	517	509
Men, 16 years and over .....	3,332	3,324	3,362	3,028	3,189	3,274	3,360	3,251	3,361	3,264	3,163	3,233	3,140
16 to 24 years .....	1,285	1,317	1,280	1,135	1,263	1,276	1,289	1,286	1,374	1,255	1,190	1,247	1,241
16 to 19 years .....	677	692	685	585	665	678	678	673	754	713	713	717	729
16 to 17 years .....	322	360	322	269	309	356	307	320	352	357	344	349	349
18 to 19 years .....	350	327	364	329	361	332	365	360	386	351	373	364	375
20 to 24 years .....	608	625	595	550	598	598	611	613	620	542	477	530	512
25 years and over .....	2,049	1,997	2,068	1,898	1,949	1,991	2,068	1,983	1,994	2,006	1,952	1,987	1,900
25 to 54 years .....	1,789	1,734	1,805	1,640	1,677	1,748	1,777	1,739	1,711	1,739	1,652	1,688	1,646
55 years and over .....	279	268	275	250	238	238	288	247	286	276	296	300	273
Women, 16 years and over .....	3,013	3,039	3,070	2,924	2,850	2,971	2,871	2,966	2,902	2,994	2,917	2,788	2,810
16 to 24 years .....	1,090	1,033	1,041	987	952	1,053	978	1,080	1,026	1,065	981	906	999
16 to 19 years .....	481	511	540	502	502	548	484	553	524	605	524	455	559
16 to 17 years .....	262	262	250	252	226	237	206	245	244	250	251	224	270
18 to 19 years .....	209	240	291	247	279	302	281	309	293	353	273	247	278
20 to 24 years .....	609	522	501	485	450	505	494	527	502	460	457	451	440
25 years and over .....	1,962	2,002	2,047	1,917	1,896	1,910	1,862	1,882	1,900	1,925	1,927	1,877	1,842
25 to 54 years .....	1,787	1,827	1,856	1,725	1,708	1,707	1,660	1,680	1,705	1,736	1,725	1,652	1,611
55 years and over .....	178	182	201	184	185	194	195	202	178	190	220	217	236

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

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

(Percent)

Age and sex	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over .....	4.6	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3
16 to 24 years .....	10.8	10.7	10.6	9.8	10.2	10.6	10.4	10.8	10.9	10.5	9.9	9.8	10.1
16 to 19 years .....	14.2	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5
16 to 17 years .....	17.2	18.3	16.9	15.7	16.3	18.0	15.7	17.1	17.6	18.2	18.0	16.9	18.4
18 to 19 years .....	11.8	11.9	13.5	12.1	13.1	12.6	13.1	13.5	13.5	14.0	13.0	12.1	13.1
20 to 24 years .....	8.8	8.4	8.1	7.6	7.7	8.1	8.2	8.4	8.2	7.3	6.9	7.2	6.9
25 years and over .....	3.5	3.5	3.6	3.3	3.3	3.4	3.4	3.3	3.4	3.4	3.3	3.3	3.2
25 to 54 years .....	3.6	3.6	3.7	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.3
55 years and over .....	2.7	2.7	2.8	2.6	2.5	2.6	2.8	2.6	2.7	2.7	3.0	3.0	2.9
Men, 16 years and over .....	4.5	4.5	4.6	4.1	4.3	4.4	4.5	4.4	4.5	4.4	4.3	4.3	4.2
16 to 24 years .....	11.2	11.5	11.2	10.0	11.1	11.1	11.3	11.3	11.9	10.9	10.3	10.8	10.7
16 to 19 years .....	16.2	16.6	16.3	14.2	15.9	15.9	15.9	15.9	17.4	16.7	16.5	16.4	16.9
16 to 17 years .....	18.2	20.4	18.3	15.9	18.3	20.5	18.0	18.9	20.2	20.9	20.0	19.9	19.7
18 to 19 years .....	14.5	13.5	14.8	13.5	14.5	12.9	14.3	14.2	15.1	13.7	14.4	14.0	14.7
20 to 24 years .....	8.4	8.6	8.3	7.6	8.3	8.3	8.5	8.5	8.6	7.5	6.6	7.3	7.1
25 years and over .....	3.3	3.2	3.3	3.0	3.1	3.2	3.3	3.2	3.2	3.2	3.1	3.2	3.0
25 to 54 years .....	3.4	3.3	3.4	3.1	3.2	3.3	3.4	3.3	3.2	3.3	3.1	3.2	3.1
55 years and over .....	3.0	2.9	3.0	2.7	2.5	2.5	3.0	2.6	3.0	2.9	3.1	3.1	2.8
Women, 16 years and over .....	4.7	4.8	4.8	4.6	4.5	4.7	4.5	4.7	4.5	4.7	4.6	4.3	4.3
16 to 24 years .....	10.4	9.9	10.0	9.5	9.2	10.1	9.5	10.4	9.8	10.1	9.5	8.7	9.5
16 to 19 years .....	12.1	12.7	13.4	12.6	12.6	13.6	12.2	13.8	12.9	14.8	13.3	11.3	13.9
16 to 17 years .....	16.2	16.0	15.4	15.5	14.2	15.1	13.2	15.3	14.9	15.4	15.9	13.8	16.9
18 to 19 years .....	8.9	10.2	12.1	10.6	11.6	12.3	11.7	12.8	11.9	14.3	11.4	10.2	11.5
20 to 24 years .....	9.4	8.1	7.8	7.6	7.0	7.9	7.7	8.2	7.8	7.1	7.1	7.1	6.7
25 years and over .....	3.7	3.8	3.8	3.6	3.6	3.6	3.5	3.5	3.6	3.6	3.6	3.5	3.4
25 to 54 years .....	3.9	4.0	4.1	3.8	3.7	3.7	3.6	3.7	3.7	3.8	3.8	3.6	3.5
55 years and over .....	2.4	2.4	2.7	2.4	2.5	2.6	2.6	2.7	2.3	2.5	2.9	2.8	3.1

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Percent)

Category	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>CHARACTERISTIC</b>													
Total .....	4.6	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3
Men, 20 years and over .....	3.8	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4
Women, 20 years and over .....	4.2	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7
Both sexes, 16 to 19 years .....	14.2	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5
White .....	4.0	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8	3.8
Black and other .....	8.2	8.2	8.1	7.6	7.7	7.6	8.1	7.6	7.9	7.6	7.5	7.0	6.9
Black .....	9.4	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9	7.8
Hispanic origin .....	7.0	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6	6.6
Married men, spouse present .....	2.5	2.5	2.5	2.3	2.4	2.2	2.3	2.3	2.3	2.3	2.2	2.3	2.3
Married women, spouse present .....	3.0	3.0	3.2	2.8	2.8	2.9	2.8	3.1	2.7	2.8	2.9	2.8	2.8
Women who maintain families .....	7.6	7.5	7.5	7.5	7.5	7.1	6.9	6.8	7.6	6.9	6.9	6.3	6.1
<b>OCCUPATION<sup>1</sup></b>													
Managerial and professional specialty .....	1.9	2.0	1.8	1.9	1.7	1.7	1.7	1.9	1.8	1.9	1.8	1.8	1.8
Technical, sales, and administrative support .....	4.1	4.0	4.0	3.7	3.9	3.9	3.8	3.7	3.9	3.9	3.7	3.7	3.8
Precision production, craft, and repair .....	4.6	4.3	4.4	3.8	4.4	4.3	4.3	4.5	4.3	4.0	3.8	3.2	3.5
Operators, fabricators, and laborers .....	6.1	6.6	6.8	6.4	6.6	6.9	6.9	6.6	7.0	6.8	6.7	6.7	5.9
Farming, forestry, and fishing .....	6.7	6.4	6.9	6.1	6.5	6.4	6.6	5.9	7.0	5.4	6.3	7.5	7.7
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers ...	4.7	4.7	4.7	4.4	4.5	4.6	4.6	4.7	4.8	4.6	4.5	4.4	4.3
Goods-producing industries .....	4.8	4.8	5.0	4.5	4.6	4.7	4.8	4.8	5.1	4.6	4.6	4.6	4.6
Mining .....	3.7	2.7	3.4	2.9	1.6	4.0	3.9	3.6	3.0	2.4	2.2	4.3	7.4
Construction .....	8.1	8.0	8.4	6.6	8.0	7.9	6.8	7.4	8.6	6.7	7.0	6.4	7.3
Manufacturing .....	3.8	3.8	3.9	3.9	3.6	3.6	4.3	3.9	4.0	3.9	3.8	4.0	3.5
Durable goods .....	3.3	3.0	3.6	3.4	3.0	3.0	4.1	3.5	3.7	3.2	3.2	3.4	3.4
Nondurable goods .....	4.6	4.9	4.3	4.5	4.6	4.6	4.6	4.5	4.6	5.1	4.8	4.9	3.8
Service-producing industries .....	4.7	4.7	4.6	4.4	4.5	4.6	4.6	4.7	4.6	4.7	4.5	4.4	4.2
Transportation and public utilities .....	3.8	3.3	3.3	3.2	3.1	3.5	3.4	3.5	3.5	3.5	3.2	3.2	2.5
Wholesale and retail trade .....	5.8	5.7	5.5	5.4	5.3	5.6	5.6	5.6	5.7	5.6	5.2	5.5	5.2
Finance, insurance, and real estate .....	2.6	2.5	2.5	2.3	2.1	2.2	2.1	2.7	2.4	2.5	2.8	2.8	2.4
Services .....	4.4	4.6	4.7	4.3	4.7	4.6	4.6	4.7	4.5	4.7	4.6	4.1	4.1
Government workers .....	2.4	2.3	2.8	2.0	2.4	2.2	2.4	2.2	2.2	2.2	2.1	2.0	2.2
Agricultural wage and salary workers .....	10.3	8.5	9.2	8.0	8.0	8.4	8.2	7.4	7.9	6.7	7.6	8.3	9.6

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

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



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

(Numbers in thousands)

Reason	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers and persons who completed temporary jobs .....	2,826	2,827	2,950	2,706	2,822	2,832	2,865	2,834	2,865	2,813	2,758	2,754	2,696
On temporary layoff .....	862	836	966	723	816	851	931	937	909	857	850	841	864
Not on temporary layoff .....	1,964	1,991	1,984	1,983	2,006	1,981	1,934	1,897	1,956	1,956	1,908	1,913	1,832
Job leavers .....	792	773	745	641	749	754	770	734	727	730	677	709	699
Reentrants .....	2,215	2,206	2,187	2,115	2,081	2,112	2,072	2,124	2,161	2,142	2,130	2,031	1,993
New entrants .....	524	538	544	518	505	517	474	507	501	577	534	504	537
<b>PERCENT DISTRIBUTION</b>													
Job losers and persons who completed temporary jobs .....	44.5	44.6	45.9	45.3	45.8	45.6	46.4	45.7	45.8	44.9	45.2	45.9	45.5
On temporary layoff .....	13.6	13.2	15.0	12.1	13.3	13.7	15.1	15.1	14.5	13.7	13.9	14.0	14.6
Not on temporary layoff .....	30.9	31.4	30.9	33.2	32.6	31.9	31.3	30.6	31.3	31.2	31.3	31.9	30.9
Job leavers .....	12.5	12.2	11.6	10.7	12.2	12.1	12.5	11.8	11.6	11.7	11.1	11.8	11.8
Reentrants .....	34.8	34.8	34.0	35.4	33.8	34.0	33.5	34.3	34.6	34.2	34.9	33.9	33.6
New entrants .....	8.2	8.5	8.5	8.7	8.2	8.3	7.7	8.2	8.0	9.2	8.8	8.4	9.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers and persons who completed temporary jobs .....	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9
Job leavers .....	.6	.6	.5	.5	.5	.5	.6	.5	.5	.5	.5	.5	.5
Reentrants .....	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.4
New entrants .....	.4	.4	.4	.4	.4	.4	.3	.4	.4	.4	.4	.4	.4

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

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

(Numbers in thousands)

Duration	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>NUMBER OF UNEMPLOYED</b>													
Less than 5 weeks .....	2,520	2,598	2,792	2,626	2,608	2,553	2,626	2,652	2,638	2,754	2,546	2,614	2,353
5 to 14 weeks .....	1,976	1,931	1,971	1,929	1,967	2,022	1,975	1,956	1,968	1,896	1,983	1,839	2,071
15 weeks and over .....	1,811	1,804	1,728	1,461	1,509	1,641	1,606	1,644	1,636	1,598	1,611	1,578	1,469
15 to 26 weeks .....	802	849	830	605	671	833	783	810	732	732	752	754	753
27 weeks and over .....	1,009	955	898	856	838	808	823	834	904	866	859	824	716
Average (mean) duration, in weeks .....	15.5	15.4	14.6	14.5	14.7	14.1	14.3	13.7	14.3	14.1	14.4	14.1	13.4
Median duration, in weeks .....	7.3	7.1	6.9	6.6	6.1	6.7	6.7	6.8	6.6	5.9	6.7	6.7	6.9
<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 .....	40.0	41.0	43.0	43.7	42.9	41.1	42.3	42.4	42.3	44.1	41.5	43.3	39.9
5 to 14 weeks .....	31.3	30.5	30.4	32.1	32.3	32.5	31.8	31.3	31.5	30.3	32.3	30.5	35.1
15 weeks and over .....	28.7	28.5	26.6	24.3	24.8	26.4	25.9	26.3	26.2	25.6	26.2	26.2	24.9
15 to 26 weeks .....	12.7	13.4	12.8	10.1	11.0	13.4	12.6	13.0	11.7	11.7	12.2	12.5	12.8
27 weeks and over .....	16.0	15.1	13.8	14.2	13.8	13.0	13.3	13.3	14.5	13.9	14.0	13.7	12.1

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	January 1999									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed				Unemployed		Not in labor force
				Total	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>										
16 years and over .....	206,719	137,943	66.7	131,339	63.5	2,911	128,428	6,604	4.8	68,776
16 to 19 years .....	15,909	7,709	48.5	6,460	40.6	122	6,338	1,249	16.2	8,200
16 to 17 years .....	7,933	3,017	38.0	2,435	30.7	55	2,380	582	19.3	4,916
18 to 19 years .....	7,976	4,692	58.8	4,025	50.5	67	3,958	667	14.2	3,284
20 to 24 years .....	17,762	13,394	75.4	12,338	69.5	275	12,063	1,057	7.9	4,368
25 to 54 years .....	117,912	99,587	84.5	95,845	81.3	1,926	93,919	3,742	3.8	18,326
25 to 34 years .....	38,384	32,612	85.0	31,099	81.0	630	30,469	1,513	4.6	5,772
25 to 29 years .....	18,452	15,748	85.3	14,974	81.2	304	14,670	774	4.9	2,704
30 to 34 years .....	19,932	16,864	84.6	16,125	80.9	326	15,799	740	4.4	3,068
35 to 44 years .....	44,482	37,813	85.0	36,484	82.0	719	35,765	1,330	3.5	6,669
35 to 39 years .....	22,362	19,052	85.2	18,393	82.3	374	18,019	659	3.5	3,310
40 to 44 years .....	22,120	18,761	84.8	18,091	81.8	345	17,746	670	3.6	3,359
45 to 54 years .....	35,046	29,161	83.2	28,262	80.6	577	27,685	899	3.1	5,885
45 to 49 years .....	19,083	16,252	85.2	15,745	82.5	329	15,416	507	3.1	2,832
50 to 54 years .....	15,963	12,909	80.9	12,517	78.4	248	12,269	392	3.0	3,053
55 to 64 years .....	22,759	13,455	59.1	13,027	57.2	329	12,698	428	3.2	9,303
55 to 59 years .....	12,572	8,778	69.8	8,478	67.4	189	8,289	300	3.4	3,794
60 to 64 years .....	10,186	4,677	45.9	4,549	44.7	140	4,409	128	2.7	5,509
65 years and over .....	32,377	3,798	11.7	3,669	11.3	259	3,410	128	3.4	28,579
65 to 69 years .....	9,338	2,076	22.2	2,003	21.4	137	1,866	73	3.5	7,262
70 to 74 years .....	8,568	1,026	12.0	999	11.7	71	928	27	2.6	7,542
75 years and over .....	14,471	695	4.8	667	4.6	51	616	28	4.1	13,775
<b>Men</b>										
16 years and over .....	99,198	73,636	74.2	69,992	70.6	2,158	67,834	3,644	4.9	25,562
16 to 19 years .....	8,074	3,948	48.9	3,212	39.8	98	3,114	736	18.6	4,125
16 to 17 years .....	4,080	1,561	38.3	1,215	29.8	42	1,173	346	22.2	2,519
18 to 19 years .....	3,993	2,387	59.8	1,997	50.0	56	1,942	390	16.3	1,606
20 to 24 years .....	8,831	7,027	79.6	6,423	72.7	223	6,200	604	8.6	1,804
25 to 54 years .....	57,697	53,112	92.1	51,129	88.6	1,405	49,724	1,983	3.7	4,585
25 to 34 years .....	18,786	17,503	93.2	16,722	89.0	486	16,236	782	4.5	1,283
25 to 29 years .....	9,014	8,390	93.1	8,005	88.8	247	7,757	385	4.6	624
30 to 34 years .....	9,773	9,114	93.3	8,717	89.2	239	8,478	397	4.4	659
35 to 44 years .....	21,869	20,366	93.1	19,670	89.9	520	19,150	697	3.4	1,502
35 to 39 years .....	10,982	10,317	93.9	9,959	90.7	293	9,666	358	3.5	665
40 to 44 years .....	10,886	10,049	92.3	9,711	89.2	226	9,484	338	3.4	837
45 to 54 years .....	17,042	15,242	89.4	14,738	86.5	399	14,338	505	3.3	1,799
45 to 49 years .....	9,304	8,478	91.1	8,156	87.7	230	7,927	322	3.8	825
50 to 54 years .....	7,738	6,764	87.4	6,582	85.1	170	6,412	182	2.7	974
55 to 64 years .....	10,893	7,366	67.6	7,104	65.2	224	6,879	263	3.6	3,526
55 to 59 years .....	6,060	4,736	78.2	4,556	75.2	123	4,433	180	3.8	1,324
60 to 64 years .....	4,833	2,630	54.4	2,548	52.7	102	2,446	82	3.1	2,202
65 years and over .....	13,704	2,182	15.9	2,125	15.5	208	1,917	58	2.6	11,522
65 to 69 years .....	4,305	1,175	27.3	1,143	26.5	102	1,041	32	2.8	3,130
70 to 74 years .....	3,755	576	15.3	562	15.0	60	502	14	2.5	3,179
75 years and over .....	5,643	431	7.6	420	7.4	45	375	11	2.5	5,212
<b>Women</b>										
16 years and over .....	107,521	64,307	59.8	61,347	57.1	753	60,594	2,960	4.6	43,214
16 to 19 years .....	7,835	3,760	48.0	3,247	41.4	24	3,223	513	13.6	4,075
16 to 17 years .....	3,853	1,456	37.8	1,220	31.7	13	1,207	236	16.2	2,397
18 to 19 years .....	3,982	2,304	57.9	2,027	50.9	11	2,016	277	12.0	1,678
20 to 24 years .....	8,931	6,367	71.3	5,915	66.2	52	5,863	452	7.1	2,564
25 to 54 years .....	60,216	46,475	77.2	44,716	74.3	521	44,195	1,759	3.8	13,741
25 to 34 years .....	19,598	15,109	77.1	14,377	73.4	144	14,233	732	4.8	4,489
25 to 29 years .....	9,438	7,359	78.0	6,970	73.8	57	6,913	389	5.3	2,080
30 to 34 years .....	10,159	7,750	76.3	7,408	72.9	87	7,321	343	4.4	2,409
35 to 44 years .....	22,613	17,447	77.2	16,814	74.4	200	16,615	633	3.6	5,166
35 to 39 years .....	11,380	8,735	76.8	8,434	74.1	81	8,353	301	3.4	2,645
40 to 44 years .....	11,233	8,712	77.6	8,380	74.6	119	8,262	332	3.8	2,521
45 to 54 years .....	18,004	13,919	77.3	13,524	75.1	178	13,347	394	2.8	4,086
45 to 49 years .....	9,780	7,773	79.5	7,589	77.6	99	7,489	184	2.4	2,006
50 to 54 years .....	8,225	6,145	74.7	5,936	72.2	78	5,858	210	3.4	2,079
55 to 64 years .....	11,866	6,089	51.3	5,924	49.9	105	5,819	166	2.7	5,777
55 to 59 years .....	6,513	4,042	62.1	3,922	60.2	66	3,856	120	3.0	2,470
60 to 64 years .....	5,354	2,047	38.2	2,001	37.4	39	1,962	46	2.2	3,307
65 years and over .....	18,673	1,616	8.7	1,545	8.3	51	1,494	71	4.4	17,057
65 to 69 years .....	5,033	901	17.9	860	17.1	35	826	41	4.5	4,132
70 to 74 years .....	4,813	450	9.3	437	9.1	11	427	12	2.8	4,363
75 years and over .....	8,828	265	3.0	247	2.8	6	241	18	6.6	8,563

See footnotes at end of table.

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

(Numbers in thousands)

Age, sex, and race	January 1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
<b>WHITE</b>										
16 years and over .....	172,394	115,425	67.0	110,414	64.0	2,724	107,690	5,011	4.3	56,969
16 to 19 years .....	12,622	6,526	51.7	5,590	44.3	120	5,470	935	14.3	6,096
16 to 17 years .....	6,275	2,595	41.3	2,128	33.9	53	2,075	467	18.0	3,681
18 to 19 years .....	6,347	3,931	61.9	3,462	54.6	67	3,395	469	11.9	2,416
20 to 24 years .....	14,252	11,099	77.9	10,324	72.4	255	10,069	776	7.0	3,152
25 to 54 years .....	97,128	82,606	85.0	79,776	82.1	1,798	77,978	2,830	3.4	14,522
25 to 34 years .....	30,820	26,383	85.6	25,281	82.0	594	24,688	1,102	4.2	4,437
25 to 29 years .....	14,788	12,704	85.9	12,135	82.1	288	11,848	568	4.5	2,085
30 to 34 years .....	16,031	13,680	85.3	13,146	82.0	306	12,840	534	3.9	2,352
35 to 44 years .....	36,711	31,426	85.6	30,418	82.9	668	29,751	1,008	3.2	5,284
35 to 39 years .....	18,453	15,805	85.7	15,305	82.9	358	14,947	500	3.2	2,648
40 to 44 years .....	18,258	15,621	85.6	15,113	82.8	310	14,804	508	3.3	2,637
45 to 54 years .....	29,597	24,796	83.8	24,077	81.3	537	23,540	719	2.9	4,801
45 to 49 years .....	15,975	13,686	85.7	13,301	83.3	311	12,990	385	2.8	2,289
50 to 54 years .....	13,622	11,110	81.6	10,776	79.1	226	10,550	334	3.0	2,512
55 to 64 years .....	19,621	11,779	60.0	11,421	58.2	299	11,122	358	3.0	7,842
55 to 59 years .....	10,785	7,429	70.9	7,390	68.5	169	7,221	252	3.3	3,143
60 to 64 years .....	8,836	4,137	46.8	4,031	45.6	130	3,901	106	2.6	4,699
65 years and over .....	28,771	3,416	11.9	3,303	11.5	253	3,050	113	3.3	25,355
65 to 69 years .....	8,110	1,833	22.6	1,768	21.8	137	1,631	66	3.6	6,276
70 to 74 years .....	7,570	941	12.4	916	12.1	65	851	24	2.6	6,629
75 years and over .....	13,091	642	4.9	619	4.7	51	568	23	3.5	12,449
<b>Men</b>										
16 years and over .....	83,563	62,656	75.0	59,859	71.6	2,020	57,839	2,797	4.5	20,907
16 to 19 years .....	6,456	3,351	51.9	2,808	43.5	96	2,712	543	16.2	3,105
16 to 17 years .....	3,232	1,335	41.3	1,078	33.4	40	1,038	257	19.3	1,896
18 to 19 years .....	3,225	2,016	62.5	1,730	53.6	56	1,674	285	14.2	1,209
20 to 24 years .....	7,171	5,963	83.2	5,520	77.0	215	5,305	443	7.4	1,208
25 to 54 years .....	48,231	44,840	93.0	43,297	89.8	1,308	41,989	1,543	3.4	3,391
25 to 34 years .....	15,304	14,418	94.2	13,822	90.3	452	13,370	596	4.1	886
25 to 29 years .....	7,326	6,872	93.8	6,559	89.5	231	6,329	313	4.5	454
30 to 34 years .....	7,979	7,546	94.6	7,263	91.0	221	7,042	284	3.8	432
35 to 44 years .....	18,318	17,231	94.1	16,708	91.2	484	16,225	522	3.0	1,087
35 to 39 years .....	9,209	8,722	94.7	8,459	91.9	279	8,180	263	3.0	487
40 to 44 years .....	9,109	8,509	93.4	8,250	90.6	205	8,045	259	3.0	600
45 to 54 years .....	14,609	13,191	90.3	12,766	87.4	372	12,394	425	3.2	1,418
45 to 49 years .....	7,916	7,273	91.9	7,018	88.7	217	6,801	255	3.5	643
50 to 54 years .....	6,693	5,918	88.4	5,748	85.9	155	5,593	170	2.9	775
55 to 64 years .....	9,469	6,521	68.9	6,303	66.6	200	6,103	219	3.4	2,948
55 to 59 years .....	5,237	4,175	79.7	4,023	76.8	109	3,914	152	3.6	1,063
60 to 64 years .....	4,232	2,347	55.5	2,280	53.9	91	2,189	67	2.8	1,885
65 years and over .....	12,236	1,982	16.2	1,932	15.8	202	1,730	49	2.5	10,255
65 to 69 years .....	3,780	1,040	27.5	1,009	26.7	102	907	30	2.9	2,740
70 to 74 years .....	3,365	542	16.1	528	15.7	55	473	14	2.6	2,823
75 years and over .....	5,092	400	7.9	395	7.8	45	350	5	1.3	4,692
<b>Women</b>										
16 years and over .....	88,831	52,769	59.4	50,555	56.9	704	49,851	2,214	4.2	36,062
16 to 19 years .....	6,166	3,175	51.5	2,782	45.1	24	2,758	393	12.4	2,991
16 to 17 years .....	3,044	1,259	41.4	1,050	34.5	13	1,037	210	16.6	1,784
18 to 19 years .....	3,122	1,915	61.4	1,732	55.5	11	1,721	183	9.6	1,207
20 to 24 years .....	7,081	5,136	72.5	4,804	67.8	40	4,764	332	6.5	1,945
25 to 54 years .....	48,897	37,766	77.2	36,480	74.6	491	35,989	1,286	3.4	11,131
25 to 34 years .....	15,515	11,965	77.1	11,459	73.9	142	11,317	506	4.2	3,550
25 to 29 years .....	7,463	5,832	78.1	5,576	74.7	57	5,519	256	4.4	1,631
30 to 34 years .....	8,053	6,133	76.2	5,883	73.1	85	5,798	250	4.1	1,920
35 to 44 years .....	18,393	14,196	77.2	13,710	74.5	184	13,526	486	3.4	4,197
35 to 39 years .....	9,244	7,083	76.6	6,846	74.1	79	6,767	237	3.3	2,161
40 to 44 years .....	9,149	7,112	77.7	6,864	75.0	105	6,759	249	3.5	2,037
45 to 54 years .....	14,988	11,605	77.4	11,311	75.5	165	11,146	295	2.5	3,383
45 to 49 years .....	8,059	6,413	79.6	6,283	78.0	94	6,189	130	2.0	1,646
50 to 54 years .....	6,929	5,193	74.9	5,028	72.6	71	4,957	165	3.2	1,737
55 to 64 years .....	10,152	5,257	51.8	5,118	50.4	99	5,019	139	2.6	4,895
55 to 59 years .....	5,548	3,467	62.5	3,368	60.7	60	3,308	100	2.9	2,081
60 to 64 years .....	4,604	1,790	38.9	1,751	38.0	39	1,712	39	2.2	2,814
65 years and over .....	16,535	1,434	8.7	1,371	8.3	51	1,320	63	4.4	15,101
65 to 69 years .....	4,330	794	18.3	758	17.5	35	724	36	4.5	3,536
70 to 74 years .....	4,206	399	9.5	389	9.2	11	378	10	2.5	3,807
75 years and over .....	7,999	242	3.0	224	2.8	6	219	18	7.2	7,758

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	January 1999									
	Civilian noninstitutional population	Civilian labor force								Not in labor force
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>BLACK</b>										
16 years and over .....	24,665	16,101	65.3	14,835	60.1	118	14,717	1,267	7.9	8,563
16 to 19 years .....	2,470	917	37.1	660	26.7	—	660	257	28.1	1,553
16 to 17 years .....	1,214	322	26.5	233	19.2	—	233	89	27.7	892
18 to 19 years .....	1,255	595	47.4	427	34.0	—	427	168	28.3	660
20 to 24 years .....	2,587	1,673	64.6	1,441	55.7	10	1,431	232	13.9	915
25 to 54 years .....	14,613	12,107	82.9	11,381	77.9	95	11,287	725	6.0	2,506
25 to 34 years .....	5,219	4,452	85.3	4,108	78.7	26	4,082	344	7.7	767
25 to 29 years .....	2,556	2,216	86.7	2,046	80.0	9	2,036	171	7.7	340
30 to 34 years .....	2,684	2,236	83.9	2,063	77.4	17	2,046	173	7.7	428
35 to 44 years .....	5,571	4,620	82.9	4,387	78.7	43	4,344	233	5.0	951
35 to 39 years .....	2,850	2,376	83.4	2,255	79.1	14	2,241	120	5.1	474
40 to 44 years .....	2,721	2,244	82.5	2,131	78.3	29	2,102	113	5.0	477
45 to 54 years .....	3,822	3,035	79.4	2,886	75.5	25	2,861	149	4.9	787
45 to 49 years .....	2,216	1,821	82.1	1,721	77.7	14	1,707	99	5.5	396
50 to 54 years .....	1,605	1,214	75.6	1,165	72.6	11	1,154	49	4.1	391
55 to 64 years .....	2,257	1,139	50.5	1,102	48.8	14	1,088	37	3.3	1,118
55 to 59 years .....	1,253	780	62.3	759	60.6	7	752	21	2.7	473
60 to 64 years .....	1,004	359	35.8	343	34.2	7	336	16	4.6	645
65 years and over .....	2,739	266	9.7	251	9.2	—	251	15	5.5	2,473
65 to 69 years .....	917	163	17.8	156	17.1	—	156	6	4.0	755
70 to 74 years .....	751	63	8.4	61	8.1	—	61	2	( <sup>1</sup> )	687
75 years and over .....	1,070	40	3.7	34	3.1	—	34	6	( <sup>1</sup> )	1,031
<b>Men</b>										
16 years and over .....	11,052	7,556	68.4	6,914	62.6	90	6,824	642	8.5	3,496
16 to 19 years .....	1,213	458	37.8	295	24.3	—	295	163	35.6	755
16 to 17 years .....	621	170	27.3	97	15.7	—	97	72	42.5	452
18 to 19 years .....	591	288	48.8	198	33.4	—	198	91	31.5	303
20 to 24 years .....	1,183	735	62.1	611	51.7	4	607	123	16.8	449
25 to 54 years .....	6,593	5,720	86.8	5,395	81.8	76	5,319	326	5.7	872
25 to 34 years .....	2,330	2,084	89.4	1,941	83.3	24	1,916	143	6.9	246
25 to 29 years .....	1,127	1,042	92.4	989	87.7	9	979	53	5.1	86
30 to 34 years .....	1,202	1,042	86.7	952	79.2	15	937	90	8.6	160
35 to 44 years .....	2,547	2,217	87.0	2,097	82.3	33	2,064	120	5.4	330
35 to 39 years .....	1,297	1,152	88.8	1,088	83.9	14	1,074	64	5.6	145
40 to 44 years .....	1,250	1,065	85.2	1,009	80.7	19	990	56	5.2	185
45 to 54 years .....	1,716	1,420	82.7	1,357	79.1	18	1,339	63	4.4	296
45 to 49 years .....	1,005	856	85.2	803	79.9	10	794	53	6.2	149
50 to 54 years .....	711	563	79.3	554	77.9	33	545	10	1.7	147
55 to 64 years .....	974	512	52.6	490	50.3	10	479	22	4.4	461
55 to 59 years .....	549	350	63.8	338	61.5	4	334	13	3.6	199
60 to 64 years .....	424	162	38.1	152	35.9	7	146	10	6.0	263
65 years and over .....	1,090	131	12.0	123	11.3	—	123	8	6.1	959
65 to 69 years .....	383	86	22.6	84	22.0	—	84	2	2.6	297
70 to 74 years .....	305	21	6.8	21	6.8	—	21	—	( <sup>1</sup> )	285
75 years and over .....	401	24	6.0	18	4.5	—	18	6	( <sup>1</sup> )	377
<b>Women</b>										
16 years and over .....	13,613	8,545	62.8	7,921	58.2	28	7,893	625	7.3	5,067
16 to 19 years .....	1,257	459	36.5	364	29.0	—	364	94	20.6	798
16 to 17 years .....	593	152	25.7	135	22.8	—	135	17	11.2	441
18 to 19 years .....	664	307	46.2	229	34.5	—	229	77	25.2	358
20 to 24 years .....	1,404	938	66.8	829	59.1	6	824	109	11.6	466
25 to 54 years .....	8,020	6,387	79.6	5,987	74.6	19	5,968	400	6.3	1,633
25 to 34 years .....	2,890	2,368	82.0	2,168	75.0	2	2,166	201	8.5	521
25 to 29 years .....	1,428	1,174	82.2	1,057	74.0	—	1,057	117	10.0	254
30 to 34 years .....	1,461	1,194	81.7	1,111	76.0	2	1,109	83	7.0	268
35 to 44 years .....	3,024	2,403	79.5	2,290	75.7	10	2,280	113	4.7	621
35 to 39 years .....	1,553	1,224	78.8	1,168	75.2	—	1,168	56	4.6	329
40 to 44 years .....	1,472	1,179	80.1	1,122	76.3	10	1,112	57	4.8	292
45 to 54 years .....	2,106	1,615	76.7	1,529	72.6	7	1,522	86	5.3	491
45 to 49 years .....	1,211	964	79.6	918	75.8	5	913	46	4.8	247
50 to 54 years .....	895	651	72.7	611	68.3	2	609	40	6.1	244
55 to 64 years .....	1,283	627	48.9	612	47.7	3	609	15	2.4	656
55 to 59 years .....	704	430	61.1	421	59.9	3	418	8	1.9	274
60 to 64 years .....	580	198	34.1	191	32.9	—	191	7	3.4	382
65 years and over .....	1,649	135	8.2	128	7.8	—	128	7	4.9	1,514
65 to 69 years .....	534	76	14.3	72	13.5	—	72	4	5.6	458
70 to 74 years .....	446	43	9.6	40	9.1	—	40	—	( <sup>1</sup> )	403
75 years and over .....	669	16	2.3	16	2.3	—	16	—	( <sup>1</sup> )	653

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

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

the household survey.

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
<b>TOTAL</b>								
Civilian noninstitutional population .....	204,238	206,719	90,391	91,124	98,420	99,686	15,427	15,909
Civilian labor force .....	135,951	137,943	69,013	69,687	59,425	60,547	7,513	7,709
Percent of population .....	66.6	66.7	76.3	76.5	60.4	60.7	48.7	48.5
Employed .....	128,882	131,339	65,811	66,780	56,674	58,100	6,396	6,460
Agriculture .....	2,938	2,911	2,056	2,060	726	729	156	122
Nonagricultural industries .....	125,944	128,428	63,756	64,720	55,948	57,370	6,241	6,338
Unemployed .....	7,069	6,604	3,202	2,908	2,750	2,447	1,117	1,249
Unemployment rate .....	5.2	4.8	4.6	4.2	4.6	4.0	14.9	16.2
Not in labor force .....	68,287	68,776	21,377	21,437	38,996	39,139	7,914	8,200
<b>White</b>								
Civilian noninstitutional population .....	170,810	172,394	76,681	77,107	81,855	82,665	12,275	12,622
Civilian labor force .....	114,193	115,425	58,885	59,306	48,897	49,594	6,410	6,526
Percent of population .....	66.9	67.0	76.8	76.9	59.7	60.0	52.2	51.7
Employed .....	108,967	110,414	56,476	57,051	46,919	47,773	5,573	5,590
Agriculture .....	2,767	2,724	1,923	1,924	689	680	155	120
Nonagricultural industries .....	106,200	107,690	54,553	55,127	46,230	47,093	5,417	5,470
Unemployed .....	5,226	5,011	2,410	2,254	1,979	1,821	838	935
Unemployment rate .....	4.6	4.3	4.1	3.8	4.0	3.7	13.1	14.3
Not in labor force .....	56,617	56,969	17,795	17,801	32,958	33,071	5,864	6,096
<b>Black</b>								
Civilian noninstitutional population .....	24,196	24,665	9,657	9,839	12,125	12,356	2,414	2,470
Civilian labor force .....	15,535	16,101	6,910	7,098	7,776	8,087	849	917
Percent of population .....	64.2	65.3	71.6	72.1	64.1	65.4	35.2	37.1
Employed .....	14,045	14,835	6,288	6,619	7,149	7,556	609	660
Agriculture .....	98	118	73	90	24	28	-	-
Nonagricultural industries .....	13,948	14,717	6,214	6,529	7,125	7,529	609	660
Unemployed .....	1,490	1,267	622	479	628	530	240	257
Unemployment rate .....	9.6	7.9	9.0	6.8	8.1	6.6	28.3	28.1
Not in labor force .....	8,660	8,563	2,747	2,741	4,349	4,269	1,564	1,553

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Enrollment status, educational attainment, race, and Hispanic origin	January 1999									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	18,798	9,005	47.9	8,038	1,643	6,395	967	183	784	10.7
16 to 19 years .....	12,759	5,362	42.0	4,607	408	4,199	755	108	647	14.1
20 to 24 years .....	6,039	3,643	60.3	3,431	1,235	2,196	212	75	137	5.8
High school .....	9,654	3,760	38.9	3,148	186	2,962	612	68	545	16.3
College .....	9,144	5,245	57.4	4,890	1,457	3,433	355	116	239	6.8
Full-time students .....	7,843	4,102	52.3	3,810	825	2,985	292	71	221	7.1
Part-time students .....	1,301	1,144	87.9	1,081	632	449	63	45	18	5.5
Men, 16 to 24 years .....	9,351	4,305	46.0	3,777	882	2,896	528	103	425	12.3
16 to 19 years .....	6,364	2,548	40.0	2,129	221	1,908	419	60	359	16.4
20 to 24 years .....	2,987	1,757	58.8	1,649	661	988	109	43	66	6.2
High school .....	5,048	1,935	38.3	1,565	115	1,449	370	42	328	19.1
College .....	4,303	2,370	55.1	2,213	766	1,446	158	60	97	6.6
Full-time students .....	3,712	1,824	49.1	1,712	450	1,262	112	29	83	6.1
Part-time students .....	591	546	92.4	500	316	184	46	31	15	8.3
Women, 16 to 24 years .....	9,447	4,700	49.7	4,260	761	3,499	439	81	359	9.3
16 to 19 years .....	6,395	2,814	44.0	2,478	187	2,291	336	49	288	11.9
20 to 24 years .....	3,052	1,885	61.8	1,782	574	1,208	103	32	71	5.5
High school .....	4,607	1,824	39.6	1,583	71	1,512	242	25	217	13.2
College .....	4,841	2,875	59.4	2,678	690	1,987	198	56	142	6.9
Full-time students .....	4,130	2,278	55.1	2,097	375	1,723	180	42	138	7.9
Part-time students .....	710	598	84.1	580	316	264	17	14	4	2.9
<b>White</b>										
Total, 16 to 24 years .....	14,807	7,599	51.3	6,858	1,348	5,511	741	125	616	9.7
16 to 19 years .....	10,086	4,582	45.4	3,988	326	3,662	595	78	517	13.0
20 to 24 years .....	4,721	3,016	63.9	2,871	1,022	1,849	146	47	99	4.8
Men .....	7,393	3,650	49.4	3,252	735	2,517	398	74	324	10.9
Women .....	7,414	3,949	53.3	3,606	612	2,994	343	51	292	8.7
High school .....	7,562	3,204	42.4	2,723	148	2,575	481	42	439	15.0
College .....	7,245	4,395	60.7	4,135	1,199	2,936	259	82	177	5.9
Full-time students .....	6,215	3,469	55.8	3,264	667	2,597	206	44	161	5.9
Part-time students .....	1,030	926	89.9	872	532	339	54	38	16	5.8
<b>Black</b>										
Total, 16 to 24 years .....	2,844	999	35.1	824	221	603	175	55	120	17.5
16 to 19 years .....	1,960	587	30.0	461	70	391	126	27	99	21.5
20 to 24 years .....	884	412	46.6	363	150	212	49	28	21	11.9
Men .....	1,383	447	32.3	344	110	234	103	28	75	23.0
Women .....	1,462	552	37.8	480	111	369	72	27	45	13.1
High school .....	1,563	417	26.7	315	27	288	102	24	78	24.5
College .....	1,282	582	45.4	509	194	315	73	30	43	12.5
Full-time students .....	1,097	439	40.0	374	121	253	65	25	41	14.9
Part-time students .....	184	143	77.6	135	73	62	8	6	2	5.3
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,179	842	38.6	707	189	518	135	32	103	16.0
16 to 19 years .....	1,603	493	30.8	380	55	325	113	23	90	22.9
20 to 24 years .....	576	349	60.6	327	134	193	22	9	13	6.3
Men .....	1,118	436	39.0	378	122	257	58	14	44	13.3
Women .....	1,061	406	38.3	329	68	261	77	18	59	19.0
High school .....	1,356	360	26.5	274	43	230	86	12	75	24.0
College .....	823	482	58.6	433	146	288	49	21	28	10.1
Full-time students .....	622	308	49.5	282	61	221	26	7	19	8.5
Part-time students .....	202	174	86.5	152	85	67	23	13	9	13.0

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Enrollment status, educational attainment, race, and Hispanic origin	January 1999									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	14,873	12,098	81.3	10,760	9,012	1,747	1,339	1,179	160	11.1
16 to 19 years .....	3,150	2,347	74.5	1,853	1,363	490	494	431	63	21.0
20 to 24 years .....	11,723	9,751	83.2	8,907	7,649	1,257	845	748	96	8.7
Less than a high school diploma .....	3,677	2,440	66.4	1,967	1,587	381	472	411	61	19.4
High school graduates, no college .....	6,534	5,410	82.8	4,779	3,945	833	632	569	63	11.7
Less than a bachelor's degree .....	3,232	2,878	89.1	2,685	2,226	458	193	159	34	6.7
College graduates .....	1,431	1,370	95.8	1,329	1,254	75	41	40	1	3.0
Men, 16 to 24 years .....	7,554	6,670	88.3	5,858	5,191	667	813	746	67	12.2
16 to 19 years .....	1,710	1,401	81.9	1,084	889	195	317	282	35	22.6
20 to 24 years .....	5,844	5,269	90.2	4,774	4,302	472	496	464	32	9.4
Less than a high school diploma .....	2,055	1,608	78.3	1,306	1,152	154	302	267	35	18.8
High school graduates, no college .....	3,404	3,089	90.7	2,695	2,345	350	394	376	17	12.7
Less than a bachelor's degree .....	1,500	1,396	93.1	1,302	1,156	145	94	80	15	6.8
College graduates .....	595	577	97.0	555	537	18	22	22	-	3.9
Women, 16 to 24 years .....	7,319	5,428	74.2	4,902	3,821	1,081	526	433	93	9.7
16 to 19 years .....	1,440	946	65.7	769	474	295	177	149	28	18.7
20 to 24 years .....	5,879	4,482	76.2	4,133	3,347	786	349	284	65	7.8
Less than a high school diploma .....	1,622	832	51.3	661	435	227	170	144	27	20.5
High school graduates, no college .....	3,130	2,322	74.2	2,084	1,600	483	238	192	46	10.3
Less than a bachelor's degree .....	1,732	1,482	85.6	1,383	1,070	313	99	79	19	6.7
College graduates .....	836	793	94.9	774	717	58	19	18	1	2.4
<b>White</b>										
Total, 16 to 24 years .....	12,067	10,026	83.1	9,056	7,644	1,412	970	847	123	9.7
16 to 19 years .....	2,537	1,943	76.6	1,603	1,192	411	341	297	43	17.5
20 to 24 years .....	9,530	8,083	84.8	7,453	6,452	1,001	630	550	80	7.8
Men .....	6,234	5,664	90.8	5,076	4,520	555	588	540	47	10.4
Women .....	5,832	4,362	74.8	3,980	3,123	857	382	307	75	8.8
Less than a high school diploma .....	2,862	1,976	69.0	1,662	1,362	301	314	269	44	15.9
High school graduates, no college .....	5,291	4,466	84.4	4,008	3,338	670	458	409	49	10.3
Less than a bachelor's degree .....	2,664	2,377	89.2	2,218	1,842	376	159	130	28	6.7
College graduates .....	1,249	1,208	96.7	1,168	1,103	65	40	39	1	3.3
<b>Black</b>										
Total, 16 to 24 years .....	2,212	1,590	71.9	1,276	1,015	261	314	279	35	19.7
16 to 19 years .....	510	329	64.7	198	134	64	131	113	18	39.8
20 to 24 years .....	1,703	1,261	74.0	1,078	881	197	183	166	17	14.5
Men .....	1,013	746	73.6	562	467	95	183	166	17	24.6
Women .....	1,199	845	70.4	714	548	166	131	113	17	15.5
Less than a high school diploma .....	699	397	56.8	259	192	67	138	121	17	34.8
High school graduates, no college .....	1,005	742	73.9	600	471	129	143	131	12	19.2
Less than a bachelor's degree .....	448	398	88.8	366	304	62	32	26	6	8.0
College graduates .....	61	53	( <sup>1</sup> )	52	48	4	1	1	-	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,809	2,139	76.2	1,898	1,627	271	241	226	15	11.3
16 to 19 years .....	671	483	72.0	395	333	62	88	80	8	18.3
20 to 24 years .....	2,138	1,656	77.5	1,503	1,294	209	153	146	7	9.2
Men .....	1,442	1,299	90.1	1,157	1,042	115	142	135	7	10.9
Women .....	1,367	840	61.5	741	585	156	100	91	9	11.9
Less than a high school diploma .....	1,255	855	68.2	740	634	105	116	108	8	13.5
High school graduates, no college .....	1,032	839	81.3	746	637	109	93	89	4	11.1
Less than a bachelor's degree .....	437	364	83.4	338	286	53	26	22	3	7.1
College graduates .....	85	81	94.9	74	70	4	7	7	-	8.5

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Educational attainment	Total		Men		Women		White		Black		Hispanic origin	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
<b>TOTAL</b>												
Civilian noninstitutional population ...	171,278	173,048	81,591	82,293	89,687	90,755	144,479	145,520	19,251	19,608	15,928	16,308
Civilian labor force .....	115,027	116,840	61,944	62,660	53,083	54,179	96,823	97,800	12,870	13,512	10,976	11,377
Percent of population .....	67.2	67.5	75.9	76.1	59.2	59.7	67.0	67.2	66.9	68.9	68.9	69.8
Employed .....	110,416	112,542	59,461	60,357	50,954	52,184	93,361	94,500	11,962	12,734	10,320	10,688
Employment-population ratio .....	64.5	65.0	72.9	73.3	56.8	57.5	64.6	64.9	62.1	64.9	64.8	65.5
Unemployed .....	4,611	4,298	2,483	2,303	2,129	1,995	3,462	3,300	908	778	656	689
Unemployment rate .....	4.0	3.7	4.0	3.7	4.0	3.7	3.6	3.4	7.1	5.8	6.0	6.1
<b>Less than a high school diploma</b>												
Civilian noninstitutional population ...	29,981	28,901	14,264	13,384	15,717	15,517	23,908	23,230	4,724	4,445	7,064	7,116
Civilian labor force .....	12,695	12,463	7,793	7,344	4,902	5,119	10,214	10,055	1,857	1,823	4,033	4,147
Percent of population .....	42.3	43.1	54.6	54.9	31.2	33.0	42.7	43.3	39.3	41.0	57.1	58.3
Employed .....	11,630	11,391	7,185	6,768	4,445	4,623	9,448	9,283	1,616	1,555	3,717	3,775
Employment-population ratio .....	38.8	39.4	50.4	50.6	28.3	29.8	39.5	40.0	34.2	35.0	52.6	53.0
Unemployed .....	1,065	1,073	608	576	457	496	766	772	241	268	316	372
Unemployment rate .....	8.4	8.6	7.8	7.8	9.3	9.7	7.5	7.7	13.0	14.7	7.8	9.0
<b>High school graduates, no college</b>												
Civilian noninstitutional population ...	57,606	57,477	26,192	26,146	31,414	31,331	48,840	48,656	6,860	6,874	4,358	4,456
Civilian labor force .....	37,649	37,472	19,903	19,723	17,746	17,749	31,586	31,307	4,733	4,893	3,301	3,358
Percent of population .....	65.4	65.2	76.0	75.4	56.5	56.7	64.7	64.3	69.0	71.2	75.7	75.4
Employed .....	35,867	35,928	18,948	18,862	16,919	17,066	30,242	30,111	4,373	4,635	3,097	3,174
Employment-population ratio .....	62.3	62.5	72.3	72.1	53.9	54.5	61.9	61.9	63.7	67.4	71.1	71.2
Unemployed .....	1,782	1,545	955	861	826	684	1,344	1,196	361	258	204	184
Unemployment rate .....	4.7	4.1	4.8	4.4	4.7	3.9	4.3	3.8	7.6	5.3	6.2	5.5
<b>Less than a bachelor's degree<sup>1</sup></b>												
Civilian noninstitutional population ...	41,718	43,154	19,339	20,108	22,379	23,046	35,316	36,279	4,890	5,194	2,698	2,941
Civilian labor force .....	31,012	31,990	15,711	16,317	15,301	15,673	25,909	26,549	3,947	4,170	2,140	2,381
Percent of population .....	74.3	74.1	81.2	81.1	68.4	68.0	73.4	73.2	80.7	80.3	79.3	81.0
Employed .....	29,911	30,966	15,183	15,796	14,729	15,170	25,079	25,757	3,735	3,993	2,045	2,292
Employment-population ratio .....	71.7	71.8	78.5	78.6	65.8	65.8	71.0	71.0	76.4	76.9	75.8	77.9
Unemployed .....	1,101	1,023	528	521	573	503	829	792	212	177	94	89
Unemployment rate .....	3.5	3.2	3.4	3.2	3.7	3.2	3.2	3.0	5.4	4.2	4.4	3.7
<b>Some college, no degree</b>												
Civilian noninstitutional population ...	29,368	30,075	13,997	14,299	15,371	15,776	24,690	25,102	3,661	3,807	1,957	2,253
Civilian labor force .....	21,141	21,631	11,088	11,310	10,053	10,321	17,514	17,749	2,864	3,014	1,532	1,801
Percent of population .....	72.0	71.9	79.2	79.1	65.4	65.4	70.9	70.7	78.2	79.2	78.2	79.9
Employed .....	20,284	20,879	10,653	10,933	9,631	9,946	16,875	17,162	2,689	2,879	1,450	1,735
Employment-population ratio .....	69.1	69.4	76.1	76.5	62.7	63.0	68.3	68.4	73.4	75.6	74.1	77.0
Unemployed .....	857	752	435	377	422	375	639	587	175	135	82	66
Unemployment rate .....	4.1	3.5	3.9	3.3	4.2	3.6	3.6	3.3	6.1	4.5	5.3	3.7
<b>Associate degree</b>												
Civilian noninstitutional population ...	12,350	13,079	5,343	5,810	7,008	7,270	10,626	11,177	1,229	1,387	741	688
Civilian labor force .....	9,871	10,359	4,623	5,007	5,249	5,352	8,395	8,800	1,084	1,155	608	580
Percent of population .....	79.9	79.2	86.5	86.2	74.9	73.6	79.0	78.7	88.2	83.3	82.1	84.2
Employed .....	9,627	10,087	4,529	4,863	5,098	5,224	8,204	8,594	1,046	1,114	596	557
Employment-population ratio .....	78.0	77.1	84.8	83.7	72.8	71.9	77.2	76.9	85.1	80.3	80.4	80.9
Unemployed .....	244	272	93	144	151	128	190	206	38	42	12	23
Unemployment rate .....	2.5	2.6	2.0	2.9	2.9	2.4	2.3	2.3	3.5	3.6	2.0	4.0
<b>College graduates</b>												
Civilian noninstitutional population ...	41,974	43,516	21,796	22,655	20,178	20,861	36,415	37,355	2,778	3,095	1,808	1,795
Civilian labor force .....	33,671	34,914	18,537	19,276	15,134	15,638	29,115	29,889	2,332	2,625	1,503	1,491
Percent of population .....	80.2	80.2	85.0	85.1	75.0	75.0	80.0	80.0	84.0	84.8	83.1	83.0
Employed .....	33,007	34,257	18,146	18,931	14,861	15,326	28,592	29,349	2,239	2,551	1,460	1,447
Employment-population ratio .....	78.6	78.7	83.3	83.6	73.7	73.5	78.5	78.6	80.6	82.4	80.8	80.6
Unemployed .....	664	657	391	345	273	312	523	540	93	75	43	44
Unemployment rate .....	2.0	1.9	2.1	1.8	1.8	2.0	1.8	1.8	4.0	2.8	2.8	2.9

<sup>1</sup> Includes the categories, some college, no degree; and associate degree.  
NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are

included in both the white and black population groups. Beginning in January 1999, data reflect revised population controls used in the household survey.



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

(In thousands)

Age, sex, and race	January 1999									
	Employed <sup>1</sup>							Unemployed		
	Full-time workers				Part-time workers				Looking for full-time work	Looking for part-time work
	Total	At work		Not at work	Total	At work <sup>2</sup>		Not at work		
35 hours or more		1 to 34 hours for economic or noneconomic reasons	Part time for economic reasons			Part time for noneconomic reasons				
<b>TOTAL</b>										
Total, 16 years and over .....	107,899	93,346	11,465	3,088	23,440	2,361	19,576	1,503	5,169	1,435
16 to 19 years .....	1,771	1,446	294	30	4,689	213	4,296	180	539	710
16 to 17 years .....	165	123	38	4	2,269	15	2,186	68	86	496
18 to 19 years .....	1,605	1,323	256	26	2,419	198	2,109	113	453	214
20 years and over .....	106,128	91,900	11,170	3,057	18,752	2,148	15,281	1,323	4,630	725
20 to 24 years .....	8,884	7,601	1,047	237	3,453	453	2,809	191	823	233
25 years and over .....	97,243	84,300	10,123	2,821	15,298	1,695	12,471	1,132	3,807	492
25 to 54 years .....	84,831	73,928	8,602	2,301	11,014	1,479	8,771	764	3,389	352
55 years and over .....	12,412	10,372	1,521	519	4,284	216	3,700	368	417	140
<b>Men, 16 years and over</b> .....	62,586	55,428	5,469	1,690	7,406	1,003	5,960	443	3,032	611
16 to 19 years .....	1,110	931	165	13	2,103	102	1,926	74	342	394
16 to 17 years .....	61,477	54,496	5,304	1,677	5,303	901	4,034	368	2,691	217
20 to 24 years .....	4,963	4,338	502	123	1,460	220	1,156	84	507	98
25 years and over .....	56,514	50,158	4,801	1,554	3,844	681	2,878	284	2,184	119
25 to 54 years .....	49,005	43,750	4,045	1,210	2,124	597	1,386	141	1,914	69
55 years and over .....	7,509	6,408	757	344	1,719	84	1,492	144	270	50
<b>Women, 16 years and over</b> .....	45,312	37,919	5,996	1,398	16,034	1,358	13,616	1,060	2,137	824
16 to 19 years .....	661	515	129	17	2,586	111	2,369	106	197	316
20 years and over .....	44,651	37,404	5,867	1,381	13,448	1,247	11,246	955	1,939	508
20 to 24 years .....	3,921	3,263	545	114	1,994	234	1,653	107	317	136
25 years and over .....	40,730	34,141	5,322	1,267	11,455	1,014	9,593	848	1,623	372
25 to 54 years .....	35,826	30,178	4,557	1,091	8,890	881	7,385	624	1,476	283
55 years and over .....	4,904	3,963	765	176	2,565	133	2,208	224	147	89
<b>White</b>										
<b>Men, 16 years and over</b> .....	53,546	47,444	4,709	1,394	6,313	778	5,150	386	2,325	472
16 to 19 years .....	960	815	136	9	1,848	85	1,698	64	246	296
20 years and over .....	52,586	46,629	4,573	1,384	4,465	692	3,451	322	2,078	176
20 to 24 years .....	4,295	3,764	437	95	1,224	167	986	71	368	75
25 years and over .....	48,290	42,864	4,136	1,290	3,241	526	2,465	250	1,710	101
25 to 54 years .....	41,611	37,136	3,491	984	1,686	452	1,114	120	1,482	61
55 years and over .....	6,679	5,728	646	306	1,555	74	1,351	130	228	40
<b>Women, 16 years and over</b> .....	36,570	30,494	4,951	1,125	13,985	1,000	12,070	915	1,525	688
16 to 19 years .....	557	442	102	13	2,225	88	2,043	95	128	284
20 years and over .....	36,013	30,052	4,850	1,112	11,760	912	10,027	821	1,397	424
20 to 24 years .....	3,179	2,639	440	100	1,625	174	1,375	76	229	103
25 years and over .....	32,835	27,413	4,409	1,013	10,134	738	8,652	745	1,168	321
25 to 54 years .....	28,642	24,016	3,764	862	7,837	632	6,664	542	1,041	246
55 years and over .....	4,193	3,396	645	151	2,297	106	1,988	203	127	76
<b>Black</b>										
<b>Men, 16 years and over</b> .....	6,151	5,364	571	217	763	180	546	36	539	104
16 to 19 years .....	116	83	29	4	179	15	158	7	82	81
20 years and over .....	6,036	5,281	541	213	583	166	388	29	456	23
20 to 24 years .....	462	383	58	21	150	50	92	8	111	12
25 years and over .....	5,574	4,898	484	193	433	116	297	21	345	11
25 to 54 years .....	5,069	4,494	410	165	326	111	198	16	323	2
55 years and over .....	505	404	74	27	108	4	98	5	22	9
<b>Women, 16 years and over</b> .....	6,487	5,479	806	202	1,433	303	1,034	96	517	108
16 to 19 years .....	89	63	22	5	275	21	250	5	58	37
20 years and over .....	6,398	5,416	785	197	1,158	282	784	92	459	71
20 to 24 years .....	570	492	69	9	260	47	185	27	83	26
25 years and over .....	5,829	4,924	716	188	898	235	599	64	376	45
25 to 54 years .....	5,286	4,506	614	166	701	214	435	51	366	34
55 years and over .....	543	419	102	22	198	21	164	13	11	11

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
Total .....	128,882	131,339	68,932	69,992	65,811	66,780	59,949	61,347	56,674	58,100
Managerial and professional specialty .....	38,036	39,754	19,390	20,041	19,298	19,916	18,646	19,713	18,505	19,542
Executive, administrative, and managerial .....	18,434	19,220	10,103	10,456	10,062	10,417	8,331	8,764	8,281	8,730
Officials and administrators, public administration .....	663	784	372	429	368	429	291	356	291	356
Other executive, administrative, and managerial .....	13,030	13,519	7,717	7,988	7,682	7,952	5,313	5,531	5,270	5,504
Management-related occupations .....	4,741	4,916	2,014	2,038	2,011	2,036	2,727	2,878	2,720	2,870
Professional specialty .....	19,602	20,535	9,287	9,586	9,236	9,500	10,315	10,949	10,224	10,813
Engineers .....	2,104	2,172	1,874	1,924	1,874	1,917	230	248	230	248
Mathematical and computer scientists .....	1,635	1,728	1,187	1,162	1,182	1,157	448	566	444	566
Natural scientists .....	467	599	316	436	316	436	151	163	151	163
Health diagnosing occupations .....	1,055	1,055	809	824	809	824	246	231	246	228
Health assessment and treating occupations .....	2,876	2,982	386	434	386	434	2,490	2,548	2,490	2,542
Teachers, college and university .....	905	1,003	501	563	500	553	404	439	401	434
Teachers, except college and university .....	5,006	5,253	1,266	1,374	1,251	1,353	3,740	3,880	3,704	3,814
Lawyers and judges .....	888	858	657	620	657	620	230	238	230	238
Other professional specialty occupations .....	4,665	4,884	2,290	2,248	2,259	2,206	2,375	2,636	2,327	2,580
Technical, sales, and administrative support .....	38,037	38,419	13,565	13,927	12,793	13,089	24,471	24,492	22,757	22,722
Technicians and related support .....	4,216	4,173	2,023	1,963	1,987	1,915	2,193	2,210	2,149	2,180
Health technologists and technicians .....	1,694	1,689	320	323	314	317	1,374	1,366	1,358	1,344
Engineering and science technicians .....	1,301	1,127	1,009	844	984	822	291	283	277	281
Technicians, except health, engineering, and science .....	1,222	1,357	694	796	689	777	528	561	514	556
Sales occupations .....	15,388	15,782	7,617	7,978	7,092	7,433	7,771	7,804	6,649	6,661
Supervisors and proprietors .....	4,507	4,725	2,681	2,844	2,670	2,823	1,826	1,881	1,793	1,852
Sales representatives, finance and business services .....	2,626	2,778	1,445	1,612	1,434	1,587	1,181	1,166	1,165	1,139
Sales representatives, commodities, except retail .....	1,527	1,487	1,128	1,108	1,121	1,101	399	379	392	377
Sales workers, retail and personal services .....	6,641	6,701	2,347	2,381	1,852	1,893	4,294	4,320	3,235	3,235
Sales-related occupations .....	87	91	15	32	15	30	71	59	63	59
Administrative support, including clerical .....	18,433	18,464	3,925	3,985	3,715	3,740	14,508	14,479	13,959	13,880
Supervisors .....	702	649	308	309	308	309	395	340	391	339
Computer equipment operators .....	397	359	156	176	153	167	242	183	238	183
Secretaries, stenographers, and typists .....	3,684	3,496	67	96	57	92	3,617	3,401	3,493	3,314
Financial records processing .....	2,233	2,282	187	209	179	200	2,046	2,073	2,021	2,038
Mail and message distributing .....	948	996	594	603	569	596	353	393	348	380
Other administrative support, including clerical .....	10,469	10,682	2,614	2,594	2,448	2,377	7,855	8,088	7,469	7,625
Service occupations .....	17,708	17,690	7,105	6,949	6,214	6,083	10,603	10,742	9,412	9,669
Private household .....	829	746	42	28	34	27	787	718	699	659
Protective service .....	2,427	2,463	2,005	2,018	1,973	1,976	422	445	407	433
Service, except private household and protective .....	14,451	14,481	5,057	4,902	4,208	4,080	9,394	9,579	8,306	8,576
Food service .....	5,995	6,064	2,549	2,590	1,854	1,964	3,446	3,474	2,708	2,797
Health service .....	2,545	2,614	291	261	275	243	2,253	2,352	2,132	2,255
Cleaning and building service .....	3,088	2,894	1,753	1,549	1,648	1,428	1,334	1,344	1,250	1,283
Personal service .....	2,823	2,910	464	501	431	445	2,360	2,409	2,216	2,242
Precision production, craft, and repair .....	14,027	14,471	12,847	13,183	12,536	12,921	1,180	1,288	1,171	1,259
Mechanics and repairers .....	4,782	4,991	4,581	4,768	4,446	4,664	201	223	201	219
Construction trades .....	5,327	5,587	5,228	5,449	5,092	5,331	99	137	96	130
Other precision production, craft, and repair .....	3,919	3,893	3,038	2,965	2,998	2,927	881	928	874	910
Operators, fabricators, and laborers .....	18,179	18,109	13,679	13,586	12,785	12,588	4,501	4,523	4,305	4,340
Machine operators, assemblers, and inspectors .....	8,121	7,773	5,155	4,909	4,983	4,725	2,966	2,863	2,892	2,795
Transportation and material moving occupations .....	5,275	5,241	4,724	4,692	4,609	4,565	551	550	540	547
Motor vehicle operators .....	4,108	4,083	3,622	3,605	3,550	3,496	486	477	475	475
Other transportation and material moving occupations .....	1,167	1,158	1,102	1,086	1,059	1,069	65	72	65	72
Handlers, equipment cleaners, helpers, and laborers .....	4,783	5,096	3,800	3,985	3,193	3,298	984	1,110	873	998
Construction laborers .....	751	796	725	754	677	690	26	41	26	40
Other handlers, equipment cleaners, helpers, and laborers .....	4,032	4,300	3,075	3,231	2,516	2,608	957	1,069	847	959
Farming, forestry, and fishing .....	2,895	2,895	2,346	2,307	2,185	2,183	549	588	525	568
Farm operators and managers .....	1,115	1,027	881	786	872	781	234	241	234	241
Other farming, forestry, and fishing occupations .....	1,780	1,869	1,465	1,521	1,313	1,402	315	347	291	327

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

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	128,882	131,339	68,932	69,992	59,949	61,347
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	29.5	30.3	28.1	28.6	31.1	32.1
Executive, administrative, and managerial .....	14.3	14.6	14.7	14.9	13.9	14.3
Professional specialty .....	15.2	15.6	13.5	13.7	17.2	17.8
Technical, sales, and administrative support .....	29.5	29.3	19.7	19.9	40.8	39.9
Technicians and related support .....	3.3	3.2	2.9	2.8	3.7	3.6
Sales occupations .....	11.9	12.0	11.0	11.4	13.0	12.7
Administrative support, including clerical .....	14.3	14.1	5.7	5.7	24.2	23.6
Service occupations .....	13.7	13.5	10.3	9.9	17.7	17.5
Private household .....	.6	.6	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.2
Protective service .....	1.9	1.9	2.9	2.9	.7	.7
Service, except private household and protective .....	11.2	11.0	7.3	7.0	15.7	15.6
Precision production, craft, and repair .....	10.9	11.0	18.6	18.8	2.0	2.1
Operators, fabricators, and laborers .....	14.1	13.8	19.8	19.4	7.5	7.4
Machine operators, assemblers, and inspectors .....	6.3	5.9	7.5	7.0	4.9	4.7
Transportation and material moving occupations .....	4.1	4.0	6.9	6.7	.9	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.7	3.9	5.5	5.7	1.6	1.8
Farming, forestry, and fishing .....	2.2	2.2	3.4	3.3	.9	1.0
<b>White</b>						
Total, 16 years and over (thousands) .....	108,967	110,414	59,242	59,859	49,725	50,555
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	30.6	31.3	29.0	29.7	32.5	33.3
Executive, administrative, and managerial .....	15.0	15.3	15.4	15.9	14.6	14.7
Professional specialty .....	15.6	16.0	13.6	13.8	17.9	18.6
Technical, sales, and administrative support .....	29.5	29.4	19.7	19.9	41.3	40.6
Technicians and related support .....	3.3	3.2	3.0	2.8	3.6	3.6
Sales occupations .....	12.3	12.4	11.5	11.8	13.3	13.1
Administrative support, including clerical .....	13.9	13.8	5.2	5.3	24.3	23.9
Service occupations .....	12.6	12.3	9.2	8.9	16.5	16.2
Private household .....	.6	.6	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.2
Protective service .....	1.7	1.7	2.7	2.7	.6	.6
Service, except private household and protective .....	10.2	10.0	6.5	6.2	14.7	14.4
Precision production, craft, and repair .....	11.4	11.5	19.5	19.6	1.8	1.9
Operators, fabricators, and laborers .....	13.4	13.1	19.0	18.3	6.9	6.9
Machine operators, assemblers, and inspectors .....	5.9	5.6	7.1	6.6	4.4	4.3
Transportation and material moving occupations .....	4.0	3.8	6.6	6.4	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.6	3.7	5.3	5.3	1.5	1.8
Farming, forestry, and fishing .....	2.5	2.4	3.7	3.5	1.0	1.1
<b>Black</b>						
Total, 16 years and over (thousands) .....	14,045	14,835	6,551	6,914	7,494	7,921
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	20.2	21.0	17.9	17.8	22.2	23.8
Executive, administrative, and managerial .....	9.1	9.9	8.4	8.5	9.7	11.2
Professional specialty .....	11.1	11.1	9.5	9.3	12.6	12.6
Technical, sales, and administrative support .....	29.5	28.2	18.3	17.8	39.4	37.4
Technicians and related support .....	2.9	2.8	2.3	2.5	3.5	3.2
Sales occupations .....	9.0	9.1	7.0	7.4	10.8	10.5
Administrative support, including clerical .....	17.6	16.3	9.0	8.0	25.1	23.7
Service occupations .....	21.8	22.2	18.1	17.8	25.0	26.1
Private household .....	1.0	.7	.1	( <sup>1</sup> )	1.8	1.2
Protective service .....	3.3	3.4	5.0	5.2	1.9	1.8
Service, except private household and protective .....	17.5	18.1	12.9	12.5	21.4	23.0
Precision production, craft, and repair .....	7.9	8.3	14.2	14.7	2.4	2.7
Operators, fabricators, and laborers .....	19.7	19.1	30.1	30.0	10.7	9.6
Machine operators, assemblers, and inspectors .....	9.3	7.9	11.4	10.1	7.4	6.0
Transportation and material moving occupations .....	5.7	5.8	10.6	10.6	1.3	1.6
Handlers, equipment cleaners, helpers, and laborers .....	4.8	5.4	8.1	9.2	2.0	2.1
Farming, forestry, and fishing .....	.8	1.1	1.5	1.9	.3	.4

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

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

used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-21. Employed persons by industry and occupation**

(In thousands)

Industry	January 1999												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	2,911	130	102	44	22	140	-	12	36	12	54	19	2,339
Mining .....	555	84	65	10	12	38	-	4	196	24	97	22	2
Construction .....	8,438	1,334	154	61	60	384	-	23	4,967	103	456	884	12
Manufacturing .....	20,387	2,832	2,077	657	807	1,944	-	225	3,881	6,264	643	961	96
Durable goods .....	12,549	1,735	1,420	441	353	1,072	-	106	2,765	3,794	301	472	91
Nondurable goods .....	7,838	1,098	657	216	454	873	-	119	1,116	2,470	343	489	4
Transportation and public utilities .....	9,544	1,299	506	350	294	2,528	-	291	1,415	112	2,270	465	14
Wholesale and retail trade .....	27,304	2,611	624	276	11,247	2,339	-	5,032	1,461	352	1,123	2,148	91
Wholesale trade .....	5,118	603	141	46	1,976	817	-	50	368	113	518	416	70
Retail trade .....	22,186	2,008	483	231	9,271	1,522	-	4,982	1,093	239	604	1,732	21
Finance, insurance, and real estate .....	8,806	2,636	379	226	2,206	2,710	-	329	210	13	9	30	59
Services .....	47,116	6,806	15,642	2,303	1,095	7,091	746	9,180	2,092	862	557	498	244
Private households .....	853	4	6	-	-	-	746	65	-	-	6	14	12
Other service industries .....	46,264	6,802	15,636	2,303	1,095	7,091	-	9,115	2,092	862	551	484	232
Professional services .....	31,834	4,165	13,566	1,935	202	5,237	-	5,633	458	187	312	91	49
Public administration .....	6,277	1,488	984	247	40	1,290	-	1,848	213	31	32	68	37

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

used in the household survey.

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

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

(In thousands)

Age and sex	January 1999									
	Agriculture			Nonagricultural industries						
	Wage and salary workers	Self-employed workers	Unpaid family workers	Wage and salary workers					Self-employed workers	Unpaid family workers
				Total	Private industries			Government		
Total					Private household workers	Other private industries				
Total, 16 years and over .....	1,703	1,181	27	119,627	100,505	850	99,655	19,121	8,680	121
16 to 19 years .....	111	4	6	6,254	5,963	77	5,886	291	73	11
16 to 17 years .....	48	2	4	2,348	2,251	32	2,218	97	28	4
18 to 19 years .....	63	2	2	3,906	3,712	44	3,668	194	45	7
20 to 24 years .....	257	12	6	11,802	10,820	85	10,735	981	251	10
25 to 34 years .....	463	156	10	29,006	25,242	150	25,092	3,765	1,453	9
35 to 44 years .....	413	306	-	33,150	27,614	200	27,414	5,536	2,572	42
45 to 54 years .....	288	288	1	25,337	19,565	168	19,397	5,771	2,324	25
55 to 64 years .....	105	220	5	11,349	9,036	125	8,911	2,313	1,337	12
65 years and over .....	65	194	-	2,729	2,265	45	2,220	463	670	11
Men, 16 years and over .....	1,261	882	15	62,481	53,940	68	53,872	8,541	5,314	39
16 to 19 years .....	89	4	4	3,063	2,915	18	2,897	148	43	9
16 to 17 years .....	36	2	4	1,150	1,093	9	1,085	57	19	4
18 to 19 years .....	54	2	-	1,913	1,822	9	1,812	91	24	5
20 to 24 years .....	207	11	6	6,049	5,653	5	5,648	396	144	7
25 to 34 years .....	352	129	5	15,391	13,606	9	13,597	1,785	844	1
35 to 44 years .....	292	228	-	17,571	15,146	16	15,130	2,425	1,566	13
45 to 54 years .....	203	197	-	12,892	10,466	11	10,456	2,426	1,444	2
55 to 64 years .....	73	150	1	6,042	4,905	7	4,899	1,137	833	4
65 years and over .....	45	163	-	1,473	1,248	2	1,246	225	440	3
Women, 16 years and over .....	442	299	12	57,145	46,565	782	45,783	10,580	3,366	82
16 to 19 years .....	22	-	2	3,191	3,048	59	2,989	143	30	2
16 to 17 years .....	13	-	-	1,198	1,157	24	1,134	41	9	-
18 to 19 years .....	9	-	2	1,993	1,891	35	1,856	103	21	2
20 to 24 years .....	50	2	-	5,753	5,167	80	5,087	586	108	3
25 to 34 years .....	111	27	5	13,615	11,635	141	11,494	1,980	610	8
35 to 44 years .....	122	78	-	15,579	12,468	184	12,284	3,111	1,006	30
45 to 54 years .....	86	91	1	12,444	9,099	157	8,942	3,346	880	22
55 to 64 years .....	31	70	4	5,307	4,130	118	4,012	1,176	504	8
65 years and over .....	20	31	-	1,256	1,017	43	974	238	230	8

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Hours of work	January 1999					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	126,748	2,677	124,072	100.0	100.0	100.0
1 to 34 hours .....	32,523	840	31,682	25.7	31.4	25.5
1 to 4 hours .....	1,226	47	1,179	1.0	1.8	1.0
5 to 14 hours .....	5,290	205	5,084	4.2	7.7	4.1
15 to 29 hours .....	16,207	413	15,794	12.8	15.4	12.7
30 to 34 hours .....	9,799	174	9,625	7.7	6.5	7.8
35 hours and over .....	94,226	1,836	92,389	74.3	68.6	74.5
35 to 39 hours .....	8,512	150	8,362	6.7	5.6	6.7
40 hours .....	46,676	722	45,954	36.8	27.0	37.0
41 hours and over .....	39,038	965	38,073	30.8	36.0	30.7
41 to 48 hours .....	14,418	242	14,176	11.4	9.0	11.4
49 to 59 hours .....	14,543	320	14,222	11.5	12.0	11.5
60 hours and over .....	10,077	402	9,675	8.0	15.0	7.8
Average hours, total at work .....	39.1	40.0	39.1	-	-	-
Average hours, persons who usually work full time .....	43.0	45.8	43.0	-	-	-

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

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

(Numbers in thousands)

Reason for working less than 35 hours	January 1999					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	32,523	11,465	21,058	31,682	11,175	20,507
Economic reasons .....	3,815	1,593	2,222	3,645	1,489	2,155
Slack work or business conditions .....	2,428	1,316	1,112	2,305	1,234	1,072
Could only find part-time work .....	1,056	-	1,056	1,040	-	1,040
Seasonal work .....	167	113	54	137	93	43
Job started or ended during week .....	164	164	-	163	163	-
Noneconomic reasons .....	28,707	9,871	18,836	28,038	9,686	18,352
Child-care problems .....	893	81	811	885	81	804
Other family or personal obligations .....	5,513	690	4,823	5,364	679	4,685
Health or medical limitations .....	690	-	690	654	-	654
In school or training .....	6,823	92	6,731	6,721	92	6,628
Retired or Social Security limit on earnings .....	1,783	-	1,783	1,687	-	1,687
Vacation or personal day .....	2,035	2,035	-	1,983	1,983	-
Holiday, legal or religious .....	427	427	-	413	413	-
Weather-related curtailment .....	3,158	3,158	-	3,096	3,096	-
All other reasons .....	7,386	3,389	3,997	7,235	3,341	3,893
Average hours:						
Economic reasons .....	22.4	23.7	21.5	22.5	23.8	21.6
Other reasons .....	21.5	25.8	19.2	21.6	25.9	19.3

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

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

(Numbers in thousands)

Industry and class of worker	January 1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
Total, 16 years and over .....	124,072	31,682	3,645	9,686	18,352	92,389	39.1	43.0
Wage and salary workers .....	115,932	28,865	3,162	9,127	16,576	87,068	39.1	42.8
Mining .....	520	33	9	23	1	487	47.9	48.1
Construction .....	6,601	1,240	283	656	301	5,361	40.7	42.0
Manufacturing .....	19,504	2,501	347	1,431	723	17,003	42.3	43.3
Durable goods .....	12,048	1,385	160	894	331	10,663	42.7	43.4
Nondurable goods .....	7,456	1,116	187	536	392	6,340	41.5	43.0
Transportation and public utilities .....	8,772	1,348	160	550	639	7,424	42.3	44.3
Wholesale and retail trade .....	24,878	8,590	1,068	1,277	6,245	16,287	36.5	43.2
Finance, insurance, and real estate .....	7,959	1,568	87	671	809	6,391	39.8	42.3
Service industries .....	41,635	12,567	1,176	3,792	7,600	29,068	37.7	42.3
Private households .....	821	494	81	51	361	327	27.4	40.4
All other industries .....	40,814	12,073	1,094	3,740	7,239	28,741	37.9	42.3
Public administration .....	6,064	1,017	32	728	258	5,046	40.8	41.8
Self-employed workers .....	8,018	2,743	469	559	1,715	5,275	39.0	45.7
Unpaid family workers .....	121	74	13	-	61	46	29.7	( <sup>1</sup> )

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

used in the household survey.

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, race, and marital status	January 1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
<b>TOTAL</b>								
Total, 16 years and over .....	124,072	31,682	3,645	9,686	18,352	92,389	39.1	43.0
16 to 19 years .....	6,135	4,648	275	220	4,153	1,487	23.3	38.9
16 to 17 years .....	2,312	2,180	25	28	2,127	132	16.7	36.4
18 to 19 years .....	3,823	2,467	250	192	2,026	1,356	27.2	39.2
20 years and over .....	117,937	27,035	3,370	9,466	14,199	90,902	39.9	43.0
20 to 24 years .....	11,649	4,076	566	896	2,614	7,573	35.7	41.1
25 years and over .....	106,288	22,959	2,804	8,571	11,584	83,329	40.3	43.2
25 to 54 years .....	91,012	17,922	2,425	7,306	8,191	73,090	40.9	43.3
55 years and over .....	15,276	5,037	379	1,265	3,393	10,239	37.0	42.7
<b>Men, 16 years and over .....</b>	<b>65,842</b>	<b>11,585</b>	<b>1,711</b>	<b>4,422</b>	<b>5,453</b>	<b>54,257</b>	<b>42.1</b>	<b>44.5</b>
16 to 19 years .....	3,032	2,094	134	122	1,837	938	25.5	39.8
16 to 17 years .....	1,137	1,044	13	11	1,020	93	18.0	38.6
18 to 19 years .....	1,895	1,050	121	111	818	845	29.9	40.0
20 years and over .....	62,810	9,491	1,576	4,300	3,615	53,319	42.9	44.6
20 to 24 years .....	6,006	1,751	300	397	1,053	4,255	37.8	42.4
25 years and over .....	56,804	7,740	1,276	3,903	2,562	49,064	43.4	44.8
25 to 54 years .....	48,462	5,643	1,114	3,293	1,236	42,819	44.0	44.9
55 years and over .....	8,342	2,097	162	609	1,326	6,245	39.9	44.2
<b>Women, 16 years and over .....</b>	<b>58,229</b>	<b>20,097</b>	<b>1,934</b>	<b>5,264</b>	<b>12,899</b>	<b>38,132</b>	<b>35.7</b>	<b>40.8</b>
16 to 19 years .....	3,103	2,553	141	97	2,316	549	21.1	37.4
16 to 17 years .....	1,175	1,136	12	17	1,108	39	15.4	32.8
18 to 19 years .....	1,928	1,417	129	81	1,208	511	24.5	37.9
20 years and over .....	55,126	17,544	1,794	5,167	10,583	37,583	36.5	40.9
20 to 24 years .....	5,643	2,325	265	499	1,561	3,318	33.4	39.4
25 years and over .....	49,484	15,219	1,528	4,668	9,022	34,265	36.8	41.0
25 to 54 years .....	42,550	12,279	1,311	4,013	6,955	30,271	37.4	41.1
55 years and over .....	6,934	2,940	217	655	2,067	3,994	33.6	40.6
<b>Race</b>								
White, 16 years and over .....	104,090	27,110	2,835	8,174	16,100	76,980	39.1	43.1
Men .....	56,193	9,890	1,410	3,784	4,696	46,303	42.3	44.7
Women .....	47,897	17,220	1,426	4,390	11,404	30,677	35.4	40.9
Black, 16 years and over .....	14,178	3,327	635	1,167	1,524	10,851	38.6	41.5
Men .....	6,578	1,227	225	488	514	5,352	40.5	42.8
Women .....	7,600	2,100	410	680	1,011	5,499	36.9	40.3
<b>Marital status</b>								
Men, 16 years and over:								
Married, spouse present .....	40,525	5,063	689	2,678	1,697	35,462	44.0	45.2
Widowed, divorced, or separated .....	7,685	1,246	260	621	365	6,440	42.4	43.9
Single (never married) .....	17,632	5,276	762	1,123	3,391	12,356	37.5	42.8
Women, 16 years and over:								
Married, spouse present .....	31,517	10,592	796	2,819	6,977	20,925	35.8	40.8
Widowed, divorced, or separated .....	11,615	3,251	421	1,292	1,538	8,364	37.9	41.1
Single (never married) .....	15,098	6,255	718	1,153	4,384	8,843	33.5	40.8

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



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

(Numbers in thousands)

Occupation and sex	January 1999							
	Total at work	Worked 1 to 34 hours				Worked 35 hours or more	Average hours	
		Total	For economic reasons	For noneconomic reasons			Total at work	Persons who usually work full time
				Usually work full time	Usually work part time			
Total, 16 years and over <sup>1</sup>	124,091	31,711	3,658	9,665	18,388	92,380	39.1	43.0
Managerial and professional specialty	38,408	7,629	541	3,328	3,760	30,779	41.7	44.4
Executive, administrative, and managerial	18,671	2,730	196	1,331	1,203	15,941	43.8	45.6
Professional specialty	19,737	4,899	344	1,997	2,558	14,838	39.8	43.2
Technical, sales, and administrative support	37,238	11,031	978	2,750	7,303	26,207	37.2	42.0
Technicians and related support	4,066	951	56	325	569	3,115	38.8	41.8
Sales occupations	15,254	4,854	546	809	3,499	10,400	38.0	44.4
Administrative support, including clerical	17,918	5,227	376	1,616	3,235	12,691	36.2	40.2
Service occupations	17,039	6,855	922	996	4,938	10,183	34.7	42.3
Private household	716	438	66	47	325	279	26.7	39.5
Protective service	2,382	353	31	142	180	2,029	42.9	45.3
Service, except private household and protective	13,941	6,065	825	807	4,433	7,876	33.7	41.6
Precision production, craft, and repair	13,939	2,170	456	1,196	518	11,769	41.7	42.8
Operators, fabricators, and laborers	17,467	4,025	761	1,395	1,869	13,442	39.4	42.2
Machine operators, assemblers, and inspectors	7,533	1,251	266	614	370	6,283	40.3	41.6
Transportation and material moving occupations	5,003	1,065	183	399	483	3,938	41.8	44.6
Handlers, equipment cleaners, helpers, and laborers	4,931	1,709	313	381	1,015	3,221	35.6	40.7
Men, 16 years and over <sup>1</sup>	65,712	11,547	1,724	4,390	5,433	54,165	42.1	44.5
Managerial and professional specialty	19,510	2,448	242	1,215	991	17,062	45.1	46.6
Executive, administrative, and managerial	10,218	985	117	492	375	9,233	46.6	47.8
Professional specialty	9,292	1,463	125	722	616	7,829	43.3	45.3
Technical, sales, and administrative support	13,581	2,531	219	761	1,551	11,050	41.6	44.7
Technicians and related support	1,912	293	19	128	146	1,619	41.2	43.2
Sales occupations	7,788	1,505	155	356	995	6,283	42.7	46.4
Administrative support, including clerical	3,881	733	45	277	410	3,149	39.4	42.1
Service occupations	6,763	1,938	341	331	1,265	4,825	38.2	43.7
Private household	28	17	7	5	5	11	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,954	257	26	121	111	1,697	43.8	45.7
Service, except private household and protective	4,781	1,663	308	206	1,150	3,117	36.0	42.7
Precision production, craft, and repair	12,704	1,903	407	1,093	403	10,801	41.9	42.9
Operators, fabricators, and laborers	13,154	2,727	515	989	1,223	10,427	40.4	43.0
Machine operators, assemblers, and inspectors	4,801	614	118	334	162	4,187	41.6	42.5
Transportation and material moving occupations	4,488	840	155	341	344	3,647	42.8	45.1
Handlers, equipment cleaners, helpers, and laborers	3,865	1,272	242	314	716	2,593	36.2	41.0
Women, 16 years and over <sup>1</sup>	58,379	20,164	1,934	5,275	12,955	38,215	35.7	40.8
Managerial and professional specialty	18,898	5,181	299	2,113	2,769	13,717	38.2	41.8
Executive, administrative, and managerial	8,453	1,745	79	839	827	6,708	40.3	42.7
Professional specialty	10,445	3,436	220	1,274	1,942	7,010	36.6	40.9
Technical, sales, and administrative support	23,657	8,500	759	1,989	5,752	15,156	34.7	40.1
Technicians and related support	2,154	658	38	197	423	1,496	36.6	40.4
Sales occupations	7,467	3,349	391	453	2,505	4,118	33.0	41.3
Administrative support, including clerical	14,036	4,494	330	1,339	2,825	9,542	35.4	39.6
Service occupations	10,276	4,917	580	665	3,672	5,358	32.3	41.0
Private household	688	420	59	42	320	268	26.7	39.7
Protective service	427	95	5	22	69	332	38.4	42.8
Service, except private household and protective	9,160	4,402	517	601	3,284	4,759	32.5	41.0
Precision production, craft, and repair	1,235	267	49	103	115	968	38.7	41.1
Operators, fabricators, and laborers	4,313	1,299	247	406	646	3,015	36.4	39.7
Machine operators, assemblers, and inspectors	2,732	636	148	280	208	2,095	38.0	39.8
Transportation and material moving occupations	515	225	28	58	139	290	33.2	39.2
Handlers, equipment cleaners, helpers, and laborers	1,066	437	70	68	300	629	33.8	39.8

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
Total, 16 years and over .....	3,882	3,644	5.3	4.9	3,186	2,960	5.0	4.6
Married, spouse present .....	1,408	1,275	3.2	2.9	1,097	1,068	3.3	3.1
Widowed, divorced, or separated .....	508	524	5.7	6.0	768	635	5.9	5.0
Single (never married) .....	1,967	1,844	9.8	9.0	1,322	1,258	8.0	7.4
White, 16 years and over .....	2,945	2,797	4.7	4.5	2,281	2,214	4.4	4.2
Married, spouse present .....	1,147	1,071	3.0	2.8	906	900	3.1	3.0
Widowed, divorced, or separated .....	404	415	5.5	5.8	579	462	5.7	4.5
Single (never married) .....	1,393	1,311	8.5	7.9	796	852	6.4	6.8
Black, 16 years and over .....	749	642	10.3	8.5	741	625	9.0	7.3
Married, spouse present .....	183	141	5.4	4.0	117	124	4.5	4.3
Widowed, divorced, or separated .....	87	87	7.4	7.1	153	144	6.8	6.8
Single (never married) .....	478	415	17.5	14.7	472	356	14.0	10.0
Total, 25 years and over .....	2,483	2,303	4.0	3.7	2,129	1,995	4.0	3.7
Married, spouse present .....	1,345	1,190	3.2	2.8	969	976	3.0	3.0
Widowed, divorced, or separated .....	485	514	5.7	6.0	709	598	5.7	4.8
Single (never married) .....	652	599	6.1	5.5	451	421	5.4	4.8
White, 25 years and over .....	1,920	1,811	3.6	3.4	1,542	1,489	3.5	3.3
Married, spouse present .....	1,089	987	2.9	2.6	808	821	2.9	2.9
Widowed, divorced, or separated .....	389	408	5.5	5.9	527	437	5.3	4.4
Single (never married) .....	442	417	5.2	4.8	207	231	3.5	3.9
Black, 25 years and over .....	433	356	7.2	5.6	475	422	6.9	5.9
Married, spouse present .....	180	141	5.5	4.1	100	112	4.0	4.0
Widowed, divorced, or separated .....	81	83	7.1	6.9	147	135	6.7	6.5
Single (never married) .....	172	132	10.8	7.7	228	175	10.6	7.6

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

A-29. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
Total, 16 years and over <sup>1</sup> .....	7,069	6,604	5.2	4.8	5.3	4.9	5.0	4.6
Managerial and professional specialty .....	801	795	2.1	2.0	2.0	2.0	2.1	1.9
Executive, administrative, and managerial .....	394	375	2.1	1.9	2.0	1.9	2.2	1.9
Professional specialty .....	407	420	2.0	2.0	2.1	2.0	2.0	2.0
Technical, sales, and administrative support .....	1,845	1,705	4.6	4.2	4.2	3.9	4.9	4.5
Technicians and related support .....	102	89	2.4	2.1	2.2	2.4	2.5	1.8
Sales occupations .....	872	863	5.4	5.2	4.1	3.9	6.6	6.4
Administrative support, including clerical .....	870	753	4.5	3.9	5.3	4.5	4.3	3.8
Service occupations .....	1,226	1,112	6.5	5.9	6.8	5.9	6.2	6.0
Private household .....	80	79	8.8	9.6	( <sup>2</sup> )	( <sup>2</sup> )	8.3	9.9
Protective service .....	130	83	5.1	3.3	5.4	2.0	3.7	8.5
Service, except private household and protective .....	1,016	950	6.6	6.2	7.3	7.4	6.2	5.5
Precision production, craft, and repair .....	869	678	5.8	4.5	5.9	4.6	5.6	3.0
Mechanics and repairers .....	161	129	3.2	2.5	3.4	2.5	-	2.4
Construction trades .....	548	429	9.3	7.1	9.2	7.2	15.1	5.7
Other precision production, craft, and repair .....	161	120	3.9	3.0	3.5	3.1	5.6	2.8
Operators, fabricators, and laborers .....	1,509	1,448	7.7	7.4	7.3	7.3	8.7	7.7
Machine operators, assemblers, and inspectors .....	550	542	6.3	6.5	5.3	5.6	8.1	8.0
Transportation and material moving occupations .....	326	260	5.8	4.7	5.8	4.8	6.2	3.9
Handlers, equipment cleaners, helpers, and laborers .....	633	646	11.7	11.3	11.6	12.0	12.0	8.6
Construction laborers .....	157	231	17.3	22.5	17.0	21.9	( <sup>2</sup> )	( <sup>2</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	476	415	10.6	8.8	10.2	9.3	11.6	7.4
Farming, forestry, and fishing .....	336	387	10.4	11.8	9.2	11.0	15.2	14.7
No previous work experience .....	449	462	-	-	-	-	-	-
16 to 19 years .....	270	309	-	-	-	-	-	-
20 to 24 years .....	101	75	-	-	-	-	-	-
25 years and over .....	77	78	-	-	-	-	-	-

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-30. Unemployed persons by industry and sex**

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
Total, 16 years and over .....	7,069	6,604	5.2	4.8	5.3	4.9	5.0	4.6
Nonagricultural private wage and salary workers .....	5,616	5,211	5.4	4.9	5.5	5.0	5.3	4.8
Mining .....	34	62	5.4	10.4	5.4	9.5	4.8	16.1
Construction .....	800	766	11.8	10.7	12.4	10.7	5.2	10.8
Manufacturing .....	886	803	4.2	3.9	3.5	3.5	5.7	4.7
Durable goods .....	468	479	3.7	3.8	3.4	3.5	4.4	4.5
Lumber and wood products .....	45	55	5.9	6.9	5.2	7.3	9.1	5.0
Furniture and fixtures .....	33	5	5.0	.8	4.4	.5	6.2	1.2
Stone, clay, and glass products .....	24	28	4.0	4.5	3.5	4.4	6.4	4.8
Primary metal industries .....	21	21	2.8	2.6	3.3	3.1	-	-
Fabricated metal products .....	49	42	3.6	3.0	4.2	2.8	1.8	3.8
Machinery and computing equipment .....	84	114	3.2	4.5	3.3	4.9	2.9	3.2
Electrical machinery, equipment, and supplies .....	66	65	3.2	3.1	2.6	3.4	4.1	2.6
Transportation equipment .....	75	71	3.0	3.0	2.7	2.1	4.2	5.9
Automobiles .....	50	51	3.6	3.6	3.0	2.4	5.4	7.3
Other transportation equipment .....	25	20	2.3	2.0	2.3	1.8	2.3	2.9
Professional and photographic equipment .....	32	38	3.7	4.6	3.2	2.4	4.5	7.6
Other durable goods industries .....	39	40	5.9	6.1	3.8	2.4	9.1	11.3
Nondurable goods .....	418	323	4.9	4.1	3.5	3.5	7.1	4.9
Food and kindred products .....	121	89	6.6	5.5	5.4	5.0	9.2	6.6
Textile mill products .....	35	41	6.0	6.9	5.1	2.9	7.1	11.5
Apparel and other textile products .....	89	65	9.0	8.0	4.5	11.0	11.1	6.5
Paper and allied products .....	10	24	1.4	3.2	1.6	3.6	.7	2.0
Printing and publishing .....	88	23	5.1	1.3	4.4	1.5	6.4	1.0
Chemicals and allied products .....	30	25	2.3	2.1	1.8	1.2	3.2	3.8
Rubber and miscellaneous plastics products .....	37	52	3.7	5.6	2.4	4.9	6.3	7.0
Other nondurable goods industries .....	7	4	2.1	1.5	.8	2.0	4.7	-
Transportation and public utilities .....	336	223	4.4	2.9	4.2	2.4	4.7	4.1
Transportation .....	256	149	5.5	3.1	5.5	2.6	5.5	4.4
Communications and other public utilities .....	80	74	2.7	2.6	2.1	2.0	3.7	3.6
Wholesale and retail trade .....	1,755	1,634	6.7	6.0	6.0	5.5	7.4	6.5
Wholesale trade .....	218	195	4.6	3.9	4.2	3.5	5.2	4.7
Retail trade .....	1,538	1,439	7.1	6.5	6.6	6.1	7.7	6.8
Finance, insurance, and real estate .....	218	213	2.8	2.6	2.3	2.8	3.1	2.5
Service industries .....	1,587	1,510	4.7	4.4	5.1	4.8	4.5	4.2
Professional services .....	619	492	3.1	2.4	2.9	2.2	3.1	2.5
Other service industries .....	968	1,018	7.2	7.4	7.0	6.9	7.4	7.9
Agricultural wage and salary workers .....	301	286	15.4	14.4	14.4	14.3	18.2	14.4
Government, self-employed, and unpaid family workers .....	703	646	2.4	2.2	2.5	2.2	2.3	2.1
No previous work experience .....	449	462	-	-	-	-	-	-

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

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

(Numbers in thousands)

Reason	Total, 16 years and over		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	7,069	6,604	3,202	2,908	2,750	2,447	1,117	1,249	5,226	5,011	1,490	1,267
Job losers and persons who completed temporary jobs .....	3,556	3,394	2,123	1,931	1,217	1,174	216	290	2,737	2,711	656	546
On temporary layoff .....	1,362	1,364	827	820	422	425	113	119	1,168	1,221	147	108
Not on temporary layoff .....	2,195	2,030	1,296	1,111	795	749	103	171	1,569	1,490	509	438
Permanent job losers .....	1,485	1,376	859	759	568	528	58	88	1,130	1,015	280	293
Persons who completed temporary jobs .....	709	655	437	351	227	220	45	83	438	475	229	144
Job leavers .....	811	721	334	315	412	318	65	88	622	584	145	113
Reentrants .....	2,253	2,027	682	603	1,007	862	565	562	1,605	1,408	539	492
New entrants .....	449	462	64	59	115	94	270	309	262	308	149	116
<b>PERCENT DISTRIBUTION</b>												
Job losers and persons who completed temporary jobs .....	50.3	51.4	66.3	66.4	44.3	48.0	19.4	23.2	52.4	54.1	44.1	43.1
On temporary layoff .....	19.3	20.7	25.8	28.2	15.3	17.4	10.1	9.5	22.3	24.4	9.9	8.5
Not on temporary layoff .....	31.0	30.7	40.5	38.2	28.9	30.6	9.2	13.7	30.0	29.7	34.2	34.5
Job leavers .....	11.5	10.9	10.4	10.8	15.0	13.0	5.9	7.1	11.9	11.7	9.7	8.9
Reentrants .....	31.9	30.7	21.3	20.7	36.6	35.2	50.6	45.0	30.7	28.1	36.2	38.9
New entrants .....	6.3	7.0	2.0	2.0	4.2	3.8	24.2	24.7	5.0	6.2	10.0	9.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers and persons who completed temporary jobs .....	2.6	2.5	3.1	2.8	2.0	1.9	2.9	3.8	2.4	2.3	4.2	3.4
Job leavers .....	.6	.5	.5	.5	.7	.5	.9	1.1	.5	.5	.9	.7
Reentrants .....	1.7	1.5	1.0	.9	1.7	1.4	7.5	7.3	1.4	1.2	3.5	3.1
New entrants .....	.3	.3	.1	.1	.2	.2	3.6	4.0	.2	.3	1.0	.7

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	January 1999						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	6,604	100.0	44.4	32.3	23.3	11.7	11.6
Job losers and persons who completed temporary jobs .....	3,394	100.0	45.6	34.2	20.2	11.4	8.8
On temporary layoff .....	1,364	100.0	58.4	33.6	8.1	5.1	3.0
Not on temporary layoff .....	2,030	100.0	37.0	34.7	28.4	15.6	12.7
Permanent job losers .....	1,376	100.0	34.2	34.3	31.5	16.0	15.5
Persons who completed temporary jobs .....	655	100.0	42.7	35.5	21.8	14.8	7.0
Job leavers .....	721	100.0	46.2	29.1	24.7	12.3	12.5
Reentrants .....	2,027	100.0	42.3	30.8	26.9	11.5	15.5
New entrants .....	462	100.0	42.1	29.7	28.2	14.5	13.7
Men, 20 years and over .....	2,908	100.0	40.7	34.9	24.4	12.1	12.3
Job losers and persons who completed temporary jobs .....	1,931	100.0	42.2	37.7	20.1	11.0	9.1
On temporary layoff .....	820	100.0	52.8	41.9	5.2	3.4	1.8
Not on temporary layoff .....	1,111	100.0	34.3	34.6	31.1	16.6	14.5
Permanent job losers .....	759	100.0	32.9	33.7	33.4	15.7	17.7
Persons who completed temporary jobs .....	351	100.0	37.3	36.7	26.1	18.5	7.6
Job leavers .....	315	100.0	40.8	24.8	34.4	18.4	16.0
Reentrants .....	603	100.0	36.7	31.9	31.4	12.4	19.0
New entrants .....	59	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 20 years and over .....	2,447	100.0	44.1	29.6	26.3	12.9	13.4
Job losers and persons who completed temporary jobs .....	1,174	100.0	47.1	28.6	24.3	14.0	10.3
On temporary layoff .....	425	100.0	62.9	21.7	15.4	9.7	5.7
Not on temporary layoff .....	749	100.0	38.2	32.5	29.4	16.4	13.0
Permanent job losers .....	528	100.0	35.2	31.7	33.1	18.3	14.8
Persons who completed temporary jobs .....	220	100.0	45.3	34.4	20.3	11.6	8.6
Job leavers .....	318	100.0	45.2	33.3	21.4	9.0	12.4
Reentrants .....	862	100.0	39.9	30.0	30.1	12.4	17.7
New entrants .....	94	100.0	40.6	26.4	33.0	17.1	15.9
Both sexes, 16 to 19 years .....	1,249	100.0	53.4	31.6	15.0	8.7	6.3
Job losers and persons who completed temporary jobs .....	290	100.0	61.8	33.7	4.4	3.8	.7
On temporary layoff .....	119	100.0	80.3	18.1	1.6	-	1.6
Not on temporary layoff .....	171	100.0	49.0	44.6	6.4	6.4	-
Permanent job losers .....	88	100.0	39.9	55.0	5.2	5.2	-
Persons who completed temporary jobs .....	83	100.0	58.7	33.6	7.7	7.7	-
Job leavers .....	88	100.0	68.8	29.1	2.1	2.1	-
Reentrants .....	562	100.0	51.8	30.9	17.3	9.0	8.3
New entrants .....	309	100.0	44.0	31.5	24.5	14.6	9.8

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

used in the household survey.

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

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

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
Total, 16 years and over .....	7,069	6,604	100.0	100.0	5,567	5,169	100.0	100.0
Less than 5 weeks .....	3,132	2,930	44.3	44.4	2,223	2,094	39.9	40.5
5 to 14 weeks .....	2,038	2,133	28.8	32.3	1,665	1,733	29.9	33.5
5 to 10 weeks .....	1,379	1,487	19.5	22.5	1,118	1,202	20.1	23.3
11 to 14 weeks .....	660	646	9.3	9.8	547	531	9.8	10.3
15 weeks and over .....	1,898	1,541	26.9	23.3	1,679	1,342	30.2	26.0
15 to 26 weeks .....	825	775	11.7	11.7	708	675	12.7	13.1
27 weeks and over .....	1,074	766	15.2	11.6	972	667	17.5	12.9
27 to 51 weeks .....	477	332	6.8	5.0	453	287	8.1	5.5
52 weeks and over .....	596	434	8.4	6.6	518	380	9.3	7.4
Average (mean) duration, in weeks .....	14.9	12.9	-	-	16.3	14.0	-	-
Median duration, in weeks .....	6.9	6.5	-	-	8.0	7.4	-	-

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

used in the household survey.

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

Sex, age, race, and marital status	January 1999							Average (mean) duration	Median duration
	Thousands of persons								
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over					
				Total	15 to 26 weeks	27 weeks and over			
<b>TOTAL</b>									
Total, 16 years and over .....	6,604	2,930	2,133	1,541	775	766	12.9	6.5	
16 to 19 years .....	1,249	667	394	188	109	79	9.1	4.2	
20 to 24 years .....	1,057	551	334	172	99	72	9.8	4.3	
25 to 34 years .....	1,513	686	490	338	183	154	12.0	5.9	
35 to 44 years .....	1,330	477	456	397	183	214	16.1	8.5	
45 to 54 years .....	899	316	294	288	121	167	16.5	8.8	
55 to 64 years .....	428	179	122	128	72	56	16.0	7.4	
65 years and over .....	128	54	43	31	8	23	17.3	6.5	
<b>Men, 16 years and over</b> .....	3,644	1,563	1,249	832	424	408	13.2	6.8	
16 to 19 years .....	736	379	235	122	73	49	9.6	4.4	
20 to 24 years .....	604	303	194	107	59	49	11.1	4.5	
25 to 34 years .....	782	343	282	157	93	64	11.6	6.2	
35 to 44 years .....	697	248	257	191	91	100	15.3	8.2	
45 to 54 years .....	505	161	187	157	67	90	16.6	9.2	
55 to 64 years .....	263	102	79	82	39	43	18.4	8.1	
65 years and over .....	58	28	15	15	3	12	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Women, 16 years and over</b> .....	2,960	1,367	884	709	351	358	12.6	6.0	
16 to 19 years .....	513	288	159	65	36	29	8.2	4.0	
20 to 24 years .....	452	247	140	64	41	24	8.1	4.2	
25 to 34 years .....	732	343	208	181	91	90	12.4	5.6	
35 to 44 years .....	633	229	199	205	92	114	17.1	8.7	
45 to 54 years .....	394	156	107	131	54	77	16.4	8.1	
55 to 64 years .....	166	77	43	46	33	13	12.2	6.1	
65 years and over .....	71	26	28	16	5	11	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Race</b>									
White, 16 years and over .....	5,011	2,355	1,632	1,023	550	474	11.3	5.5	
Men .....	2,797	1,290	975	533	297	236	11.2	5.6	
Women .....	2,214	1,066	658	490	253	237	11.6	5.3	
Black, 16 years and over .....	1,267	457	389	421	179	242	18.4	8.9	
Men .....	642	215	192	236	98	137	20.6	10.3	
Women .....	625	242	197	185	81	104	16.2	7.7	
<b>Marital status</b>									
Men, 16 years and over:									
Married, spouse present .....	1,275	511	432	333	166	167	14.1	7.3	
Widowed, divorced, or separated .....	524	202	207	115	55	60	13.9	7.4	
Single (never married) .....	1,844	850	610	384	203	181	12.3	5.9	
Women, 16 years and over:									
Married, spouse present .....	1,068	519	286	262	127	135	12.3	5.0	
Widowed, divorced, or separated .....	635	225	218	192	86	106	15.9	8.3	
Single (never married) .....	1,258	622	380	255	138	117	11.1	4.7	

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

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

used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation and industry	January 1999							Average (mean) duration	Median duration
	Thousands of persons								
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over					
				Total	15 to 26 weeks	27 weeks and over			
<b>OCCUPATION</b>									
Managerial and professional specialty .....	795	350	256	189	97	92	13.4	6.7	
Technical, sales, and administrative support .....	1,705	770	531	403	234	170	11.9	6.4	
Service occupations .....	1,112	530	301	280	115	166	14.4	5.5	
Precision production, craft, and repair .....	678	311	232	135	74	61	11.8	5.4	
Operators, fabricators, and laborers .....	1,448	649	498	302	149	152	11.9	6.6	
Farming, forestry, and fishing .....	387	111	176	99	37	62	14.6	8.5	
<b>INDUSTRY<sup>1</sup></b>									
Agriculture .....	286	87	138	61	21	40	12.9	7.9	
Construction .....	778	386	287	105	50	55	10.5	4.6	
Manufacturing .....	803	316	260	227	102	124	14.7	7.7	
Durable goods .....	479	179	152	149	66	83	15.8	8.2	
Nondurable goods .....	323	137	109	78	36	42	13.0	7.0	
Transportation and public utilities .....	756	114	76	72	34	38	14.5	6.5	
Wholesale and retail trade .....	4,954	812	488	348	216	132	10.7	4.8	
Finance, insurance, and real estate .....	658	75	65	77	28	49	18.2	9.4	
Services .....	3,244	780	561	393	187	206	13.1	6.6	
Public administration .....	390	45	44	41	20	21	15.2	8.5	
No previous work experience .....	462	194	137	130	67	63	15.6	7.3	

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

used in the household survey.

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

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

(In thousands)

Category	Total		Age						Sex			
	Jan. 1998	Jan. 1999	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
	Total not in the labor force .....	68,287	68,776	12,036	12,568	18,901	18,326	37,351	37,882	25,426	25,562	42,861
Do not want a job now <sup>1</sup> .....	63,261	63,976	10,219	10,722	16,539	16,189	36,502	37,065	23,236	23,652	40,025	40,324
Want a job <sup>1</sup> .....	5,026	4,800	1,816	1,845	2,362	2,137	848	817	2,190	1,910	2,836	2,890
Did not search for work in previous year .....	2,953	2,944	968	1,097	1,355	1,238	630	609	1,168	1,127	1,785	1,817
Searched for work in previous year <sup>2</sup> .....	2,073	1,856	848	748	1,007	899	218	209	1,022	783	1,051	1,073
Not available to work now .....	594	498	287	238	272	232	35	28	288	148	306	350
Available to work now .....	1,479	1,358	561	510	735	668	183	180	734	635	745	723
Reason not currently looking:												
Discouragement over job prospects <sup>3</sup> .....	374	339	137	98	164	174	74	67	232	206	142	133
Reasons other than discouragement .....	1,105	1,019	425	412	571	493	109	114	502	428	603	590
Family responsibilities .....	141	150	21	39	110	105	9	6	27	29	113	121
In school or training .....	225	212	181	183	44	30	-	-	103	105	122	107
Ill health or disability .....	132	94	13	19	84	51	36	24	69	22	64	72
Other <sup>4</sup> .....	607	563	210	171	333	307	64	84	303	272	305	290

<sup>1</sup> Includes some persons who are not asked if they want a job.

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

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

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

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



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

(Numbers in thousands)

Characteristic	Both sexes				Men				Women			
	Number		Rate <sup>1</sup>		Number		Rate <sup>1</sup>		Number		Rate <sup>1</sup>	
	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
<b>AGE</b>												
Total, 16 years and over <sup>2</sup> .....	7,702	7,897	6.0	6.0	3,995	4,143	5.8	5.9	3,707	3,754	6.2	6.1
16 to 19 years .....	267	242	4.2	3.8	104	105	3.3	3.3	163	137	5.0	4.2
20 years and over .....	7,435	7,654	6.1	6.1	3,891	4,038	5.9	6.0	3,544	3,617	6.3	6.2
20 to 24 years .....	747	719	6.2	5.8	318	346	5.0	5.4	429	374	7.5	6.3
25 years and over .....	6,689	6,935	6.1	6.2	3,573	3,692	6.0	6.1	3,115	3,243	6.1	6.2
25 to 54 years .....	5,905	6,134	6.3	6.4	3,092	3,253	6.1	6.4	2,812	2,881	6.4	6.4
55 years and over .....	784	801	4.8	4.8	481	439	5.4	4.8	303	361	4.2	4.8
55 to 64 years .....	673	702	5.4	5.4	403	377	5.9	5.3	270	325	4.7	5.5
65 years and over .....	111	99	3.0	2.7	79	62	3.7	2.9	33	36	2.1	2.4
<b>RACE AND HISPANIC ORIGIN</b>												
White .....	6,697	6,742	6.1	6.1	3,465	3,533	5.8	5.9	3,232	3,208	6.5	6.3
Black .....	712	844	5.1	5.7	349	450	5.3	6.5	363	394	4.8	5.0
Hispanic origin .....	539	563	4.2	4.2	316	345	4.1	4.4	222	218	4.4	4.0
<b>MARITAL STATUS</b>												
Married, spouse present .....	4,435	4,459	5.9	5.8	2,679	2,628	6.3	6.1	1,756	1,831	5.4	5.5
Widowed, divorced, or separated .....	1,333	1,361	6.5	6.7	462	465	5.5	5.7	870	897	7.2	7.4
Single (never married) .....	1,935	2,077	5.8	6.0	854	1,050	4.7	5.6	1,081	1,027	7.1	6.5
<b>FULL- OR PART-TIME STATUS</b>												
Primary job full time, secondary job part time .....	4,236	4,342	-	-	2,446	2,518	-	-	1,790	1,824	-	-
Primary and secondary jobs both part time .....	1,644	1,597	-	-	469	496	-	-	1,175	1,101	-	-
Primary and secondary jobs both full time .....	269	326	-	-	200	186	-	-	69	140	-	-
Hours vary on primary or secondary job .....	1,514	1,614	-	-	861	928	-	-	653	686	-	-

<sup>1</sup> Multiple jobholders as a percent of all employed persons in specified group.

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

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

totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups. Beginning in January 1999, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Jan. 1998	Jan. 1999	Total		Employed		Unemployed			
			Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999	Number		Percent of labor force	
							Jan. 1998	Jan. 1999	Jan. 1998	Jan. 1999
<b>VIETNAM-ERA VETERANS</b>										
Total, 40 years and over .....	7,800	7,786	6,577	6,493	6,357	6,304	220	189	3.3	2.9
40 to 54 years .....	6,117	5,732	5,478	5,089	5,299	4,954	179	134	3.3	2.6
40 to 44 years .....	850	608	766	531	750	500	16	31	2.1	5.8
45 to 49 years .....	2,424	2,024	2,184	1,835	2,121	1,795	62	40	2.8	2.2
50 to 54 years .....	2,843	3,100	2,528	2,723	2,427	2,659	100	64	4.0	2.3
55 years and over .....	1,683	2,054	1,099	1,404	1,057	1,350	41	55	3.8	3.9
<b>NONVETERANS</b>										
Total, 40 to 54 years .....	19,949	20,740	18,033	18,858	17,390	18,213	642	645	3.6	3.4
40 to 44 years .....	9,183	9,343	8,457	8,640	8,173	8,372	285	268	3.4	3.1
45 to 49 years .....	6,553	7,065	5,943	6,445	5,737	6,174	205	272	3.5	4.2
50 to 54 years .....	4,212	4,332	3,632	3,772	3,480	3,667	152	105	4.2	2.8

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who

have never served in the Armed Forces. Beginning in January 1999, data reflect revised population controls used in the household survey.

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonfarm payrolls by major industry, 1947 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															
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	(1)	(1)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	(1)	(1)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	(1)	(1)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	(1)	(1)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	(1)	(1)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	(1)	(1)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	(1)	(1)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	(1)	(1)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,264	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819
1957	52,855	45,239	20,967	828	2,962	17,176	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071
1958	51,322	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,765	2,191	1,415	4,230
1959 <sup>2</sup>	53,270	45,186	20,411	732	3,004	16,675	32,857	4,011	3,092	8,035	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,153	8,238	2,628	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,258	8,520	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,347	8,812	2,911	8,660	2,348	1,856	5,392
1965	60,763	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,608	9,637	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,700	9,906	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,158	4,318	3,791	10,308	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,919	10,785	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	4,006	11,034	3,645	11,548	2,731	2,664	7,158
1971	71,211	58,331	22,935	609	3,704	18,623	48,276	4,476	4,014	11,338	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,127	11,822	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,291	12,315	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,447	12,539	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,430	12,630	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,562	13,193	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,723	13,792	4,467	15,302	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,221	14,972	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	2,866	3,610	9,765
1981	91,152	75,121	25,497	1,139	4,188	20,170	65,655	5,165	5,375	15,171	5,298	18,615	2,772	3,640	9,619
1982	89,544	73,707	23,812	1,128	3,904	18,780	65,732	5,081	5,295	15,158	5,340	19,021	2,739	3,640	9,458
1983	90,152	74,282	23,330	952	3,946	18,432	66,821	4,952	5,283	15,587	5,466	19,664	2,774	3,662	9,434
1984	94,408	78,384	24,718	966	4,380	19,372	69,690	5,156	5,568	16,512	5,684	20,746	2,807	3,734	9,482
1985	97,387	80,992	24,842	927	4,668	19,248	72,544	5,233	5,727	17,315	5,948	21,927	2,875	3,832	9,687
1986	99,344	82,651	24,533	777	4,810	18,947	74,811	5,247	5,761	17,880	6,273	22,957	2,899	3,993	9,901
1987	101,958	84,948	24,674	717	4,958	18,999	77,284	5,848	5,848	18,422	6,533	24,110	2,943	3,967	10,100
1988	105,209	87,823	25,125	713	5,098	19,314	80,084	5,512	6,030	19,023	6,630	25,504	2,971	4,076	10,339
1989	107,884	90,105	25,254	692	5,171	19,391	82,630	5,614	6,187	19,475	6,668	26,907	2,988	4,182	10,609
1990	109,403	91,098	24,905	709	5,120	19,076	84,497	5,777	6,173	19,601	6,709	27,934	3,085	4,305	10,914
1991	108,249	89,847	23,745	689	4,650	18,406	84,504	5,755	6,081	19,284	6,646	28,336	2,966	4,355	11,081
1992	108,601	89,956	23,231	635	4,492	18,104	85,370	5,718	5,997	19,356	6,602	29,052	2,969	4,408	11,267
1993	110,713	91,872	23,352	610	4,668	18,075	87,361	5,811	5,981	19,773	6,757	30,197	2,915	4,488	11,438
1994	114,163	95,036	23,908	601	4,986	18,321	90,256	5,984	6,162	20,507	6,896	31,579	2,870	4,576	11,682
1995	117,191	97,885	24,265	581	5,160	18,524	92,925	6,132	6,378	21,187	6,806	33,117	2,822	4,635	11,849
1996	119,608	100,189	24,493	580	5,418	18,495	95,115	6,253	6,482	21,597	6,911	34,454	2,757	4,606	12,056
1997	122,690	103,120	24,934	592	5,686	18,657	97,756	6,395	6,648	22,011	7,091	36,040	2,699	4,594	12,276
1998 <sup>P</sup>	125,830	105,969	25,255	575	5,964	18,716	100,575	6,549	6,825	22,475	7,341	37,524	2,686	4,648	12,528
Monthly data, seasonally adjusted															
<b>1998:</b>															
January	124,640	104,954	25,297	592	5,881	18,824	99,343	6,473	6,759	22,280	7,213	36,932	2,670	4,613	12,403
February	124,832	105,112	25,314	590	5,902	18,822	99,518	6,494	6,769	22,283	7,232	37,020	2,676	4,613	12,431
March	124,914	105,186	25,276	587	5,860	18,829	99,638	6,504	6,783	22,259	7,258	37,106	2,671	4,619	12,438
April	125,234	105,470	25,339	582	5,930	18,827	99,895	6,513	6,798	22,335	7,289	37,196	2,674	4,620	12,470
May	125,562	105,734	25,301	579	5,917	18,805	100,261	6,534	6,815	22,423	7,311	37,350	2,671	4,637	12,520
June	125,751	105,938	25,304	578	5,946	18,780	100,447	6,538	6,821	22,448	7,333	37,494	2,674	4,632	12,507
July	125,869	106,043	25,135	571	5,970	18,594	100,734	6,550	6,827	22,547	7,370	37,614	2,672	4,645	12,509
August	126,191	106,269	25,253	571	5,989	18,693	100,938	6,570	6,838	22,545	7,372	37,691	2,683	4,661	12,578
September	126,363	106,435	25,241	568	5,981	18,692	101,122	6,579	6,862	22,592	7,393	37,768	2,687	4,680	12,561
October	126,527	106,579	25,209	564	6,012	18,633	101,318	6,595	6,864	22,589	7,417	37,905	2,713	4,671	12,564
November	126,804	106,818	25,184	560	6,051	18,573	101,620	6,604	6,877	22,672	7,441	38,040	2,725	4,674	12,587
December <sup>P</sup>	127,102	107,082	25,262	555	6,150	18,557	101,840	6,629	6,884	22,711	7,459	38,137	2,707	4,686	12,627
<b>1999:</b>															
January <sup>P</sup>	127,347	107,291	25,255	546	6,165	18,544	102,092	6,651	6,912	22,741	7,481	38,251	2,707	4,687	12,662

<sup>1</sup> Not available.

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

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**B-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm 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
Annual averages									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989 .....	34.6	9.66	334.24	43.0	13.26	570.18	37.9	13.54	513.17
1990 .....	34.5	10.01	345.35	44.1	13.68	603.29	38.2	13.77	526.01
1991 .....	34.3	10.32	353.98	44.4	14.19	630.04	38.1	14.00	533.40
1992 .....	34.4	10.57	363.61	43.9	14.54	638.31	38.0	14.15	537.70
1993 .....	34.5	10.83	373.64	44.3	14.60	646.78	38.5	14.38	553.63
1994 .....	34.7	11.12	385.86	44.8	14.88	666.62	38.9	14.73	573.00
1995 .....	34.5	11.43	394.34	44.7	15.30	683.91	38.9	15.09	587.00
1996 .....	34.4	11.82	406.61	45.3	15.62	707.59	39.0	15.47	603.33
1997 .....	34.6	12.28	424.89	45.4	16.17	734.12	38.9	16.03	623.57
1998 <sup>P</sup> .....	34.6	12.77	441.84	43.9	16.95	744.11	38.8	16.57	642.92
Monthly data, not seasonally adjusted									
<b>1998:</b>									
January .....	34.2	\$12.60	\$430.92	45.0	\$16.65	\$749.25	37.4	\$16.25	\$607.75
February .....	34.6	12.65	437.69	44.0	16.89	743.16	37.9	16.21	614.36
March .....	34.5	12.68	437.46	43.4	16.89	733.03	37.9	16.29	617.39
April .....	34.2	12.69	434.00	43.4	16.84	730.86	38.0	16.34	620.92
May .....	34.6	12.70	439.42	44.4	16.73	742.81	39.2	16.42	643.66
June .....	34.7	12.66	439.30	44.0	16.73	736.12	39.1	16.44	642.80
July .....	34.8	12.66	440.57	44.0	16.81	739.64	40.1	16.63	666.86
August .....	35.1	12.74	447.17	44.0	16.94	745.36	40.1	16.74	671.27
September .....	34.3	12.89	442.13	42.9	17.16	736.16	37.5	16.76	628.50
October .....	34.6	12.92	447.03	43.9	17.13	752.01	40.0	16.86	674.40
November .....	34.7	12.99	450.75	43.9	17.34	761.23	38.5	16.79	646.42
December <sup>P</sup> .....	34.7	12.99	450.75	43.6	17.39	758.20	39.0	16.85	657.15
<b>1999:</b>									
January <sup>P</sup> .....	34.0	13.10	445.40	42.5	17.35	737.38	37.7	16.73	630.72

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**B-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry, 1964 to date—Continued**

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.08
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.66
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.90
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.86
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.42
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.54
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	169.94
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.19
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.27
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	266.88
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.68
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.46
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.79
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.88
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.36
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.72
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
1988 .....	41.1	10.19	9.73	418.81	38.2	12.24	467.57	38.1	9.98	380.24
1989 .....	41.0	10.48	10.02	429.68	38.3	12.57	481.43	38.0	10.39	394.82
1990 .....	40.8	10.83	10.37	441.86	38.4	12.92	496.13	38.1	10.79	411.10
1991 .....	40.7	11.18	10.71	455.03	38.1	13.20	502.92	38.1	11.15	424.82
1992 .....	41.0	11.46	10.95	469.86	38.3	13.43	514.37	38.2	11.39	435.10
1993 .....	41.4	11.74	11.18	486.04	39.3	13.55	532.52	38.2	11.74	448.47
1994 .....	42.0	12.07	11.43	506.94	39.7	13.78	547.07	38.4	12.06	463.10
1995 .....	41.6	12.37	11.74	514.59	39.4	14.13	556.72	38.3	12.43	476.07
1996 .....	41.6	12.77	12.12	531.23	39.6	14.45	572.22	38.3	12.87	492.92
1997 .....	42.0	13.17	12.45	553.14	39.7	14.93	592.72	38.4	13.44	516.10
1998 <sup>P</sup> .....	41.7	13.49	12.79	562.53	39.5	15.34	605.93	38.4	14.01	537.98
Monthly data, not seasonally adjusted										
<b>1998:</b>										
January .....	41.9	\$13.40	\$12.70	\$561.46	39.3	\$15.27	\$600.11	38.1	\$13.77	\$524.64
February .....	41.7	13.41	12.72	559.20	39.9	15.29	610.07	38.5	13.85	533.23
March .....	41.7	13.47	12.76	561.70	39.4	15.24	600.46	38.4	13.86	532.22
April .....	40.8	13.46	12.83	549.17	39.1	15.27	597.06	38.1	13.90	529.59
May .....	41.8	13.47	12.78	563.05	39.5	15.21	600.80	38.4	13.96	536.06
June .....	41.8	13.44	12.74	561.79	39.6	15.22	602.71	38.3	13.89	531.99
July .....	41.1	13.37	12.70	549.51	39.7	15.31	607.81	38.3	13.99	535.82
August .....	41.7	13.44	12.73	560.45	39.9	15.33	611.67	38.7	14.13	546.83
September .....	41.5	13.60	12.88	564.40	39.3	15.46	607.58	38.1	14.10	537.21
October .....	41.9	13.54	12.82	567.33	39.3	15.43	606.40	38.3	14.13	541.18
November .....	42.1	13.60	12.87	572.56	39.7	15.53	616.54	38.7	14.28	552.64
December <sup>P</sup> .....	42.6	13.68	12.94	582.77	39.1	15.53	607.22	38.4	14.27	547.97
<b>1999:</b>										
January <sup>P</sup> .....	41.3	13.67	12.98	564.57	38.8	15.59	604.89	38.0	14.36	545.68

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**B-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry, 1964 to date—Continued**

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
1987 .....	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
1988 .....	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
1989 .....	28.9	6.53	188.72	35.8	9.53	341.17	32.6	9.38	305.79
1990 .....	28.8	6.75	194.40	35.8	9.97	356.93	32.5	9.83	319.48
1991 .....	28.6	6.94	198.48	35.7	10.39	370.92	32.4	10.23	331.45
1992 .....	28.8	7.12	205.06	35.8	10.82	387.36	32.5	10.54	342.55
1993 .....	28.8	7.29	209.95	35.8	11.35	406.33	32.5	10.78	350.35
1994 .....	28.9	7.49	216.46	35.8	11.83	423.51	32.5	11.04	358.80
1995 .....	28.8	7.69	221.47	35.9	12.32	442.29	32.4	11.39	369.04
1996 .....	28.8	7.99	230.11	35.9	12.80	459.52	32.4	11.79	382.00
1997 .....	28.9	8.34	241.03	36.1	13.33	481.21	32.6	12.28	400.33
1998 <sup>P</sup> .....	29.1	8.75	254.63	36.3	14.06	510.38	32.7	12.84	419.87
Monthly data, not seasonally adjusted									
<b>1998:</b>									
January .....	28.1	\$8.63	\$242.50	36.1	\$13.70	\$494.57	32.4	\$12.66	\$410.18
February .....	28.7	8.62	247.39	37.1	13.95	517.55	32.8	12.75	418.20
March .....	28.7	8.67	248.83	36.8	13.97	514.10	32.7	12.77	417.58
April .....	28.7	8.70	249.69	36.1	13.98	504.68	32.4	12.77	413.75
May .....	29.0	8.71	252.59	36.1	13.99	505.04	32.5	12.75	414.38
June .....	29.3	8.70	254.91	36.0	13.93	501.48	32.7	12.70	415.29
July .....	29.8	8.71	259.56	36.1	13.94	503.23	32.9	12.67	416.84
August .....	29.9	8.74	261.33	36.9	14.11	520.66	33.2	12.75	423.30
September .....	29.1	8.90	258.99	35.9	14.10	506.19	32.3	12.97	418.93
October .....	28.9	8.86	256.05	36.1	14.20	512.62	32.6	13.01	424.13
November .....	28.9	8.87	256.34	36.9	14.42	532.10	32.8	13.15	431.32
December <sup>P</sup> .....	29.2	8.90	259.88	36.1	14.40	519.84	32.6	13.18	429.67
<b>1999:</b>									
January <sup>P</sup> .....	28.0	9.03	252.84	36.0	14.46	520.56	32.3	13.30	429.59

<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.  
p = preliminary.

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
<b>Total</b> .....	124,640	124,832	124,914	125,234	125,562	125,751	125,869	126,191	126,363	126,527	126,804	127,102	127,347
<b>Total private</b> .....	104,954	105,112	105,186	105,470	105,734	105,938	106,043	106,269	106,435	106,579	106,818	107,082	107,291
<b>Goods-producing</b> .....	25,297	25,314	25,276	25,339	25,301	25,304	25,135	25,253	25,241	25,209	25,184	25,262	25,255
<b>Mining</b> .....	592	590	587	582	579	578	571	571	568	564	560	555	546
Metal mining .....	52	52	51	51	51	51	50	50	50	50	50	50	50
Coal mining .....	94	93	93	92	92	90	89	90	89	89	90	89	88
Oil and gas extraction .....	338	338	336	332	329	330	325	323	321	317	312	307	299
Nonmetallic minerals, except fuels .....	108	107	107	107	107	107	107	108	108	108	108	109	109
<b>Construction</b> .....	5,881	5,902	5,860	5,930	5,917	5,946	5,970	5,989	5,981	6,012	6,051	6,150	6,165
General building contractors .....	1,365	1,371	1,373	1,385	1,388	1,401	1,410	1,413	1,410	1,419	1,414	1,433	1,444
Heavy construction, except building .....	817	813	805	819	819	821	828	829	820	825	834	861	859
Special trade contractors .....	3,699	3,718	3,682	3,726	3,710	3,724	3,732	3,747	3,751	3,768	3,803	3,856	3,862
<b>Manufacturing</b> .....	18,824	18,822	18,829	18,827	18,805	18,780	18,594	18,693	18,692	18,633	18,573	18,557	18,544
<b>Durable goods</b> .....	11,154	11,159	11,166	11,170	11,156	11,144	10,989	11,106	11,090	11,059	11,011	10,995	10,985
Lumber and wood products .....	800	800	801	802	803	801	802	802	805	806	809	813	821
Furniture and fixtures .....	517	519	520	524	526	524	528	526	524	524	524	528	528
Stone, clay, and glass products .....	562	561	558	561	559	562	561	564	564	564	568	570	567
Primary metal industries .....	719	718	719	718	716	717	706	714	712	706	699	698	697
Fabricated metal products .....	1,496	1,497	1,497	1,498	1,495	1,490	1,477	1,490	1,487	1,486	1,481	1,479	1,484
Industrial machinery and equipment .....	2,200	2,202	2,205	2,201	2,201	2,202	2,193	2,190	2,185	2,175	2,162	2,151	2,136
Computer and office equipment .....	381	381	381	377	376	375	375	373	374	371	370	367	363
Electronic and other electrical equipment .....	1,719	1,720	1,722	1,720	1,716	1,714	1,701	1,694	1,688	1,680	1,668	1,665	1,659
Electronic components and accessories .....	680	680	681	678	677	672	667	661	659	654	649	646	646
Transportation equipment .....	1,882	1,886	1,887	1,890	1,886	1,882	1,772	1,884	1,883	1,887	1,877	1,871	1,875
Motor vehicles and equipment .....	1,002	1,004	1,002	1,004	998	993	878	995	995	1,000	998	989	995
Aircraft and parts .....	521	523	525	525	524	524	526	526	524	523	519	519	518
Instruments and related products .....	870	866	868	867	866	864	861	857	855	850	845	842	839
Miscellaneous manufacturing .....	389	390	389	389	388	388	388	385	387	381	378	378	379
<b>Nondurable goods</b> .....	7,670	7,663	7,663	7,657	7,649	7,636	7,605	7,587	7,602	7,574	7,562	7,562	7,559
Food and kindred products .....	1,702	1,703	1,704	1,708	1,710	1,706	1,696	1,690	1,704	1,702	1,710	1,717	1,725
Tobacco products .....	40	41	41	42	41	40	40	40	39	40	40	39	40
Textile mill products .....	608	606	604	605	603	599	594	591	593	589	584	581	578
Apparel and other textile products .....	805	796	796	787	780	776	772	762	761	746	736	733	725
Paper and allied products .....	688	688	688	686	685	682	680	680	679	677	674	673	670
Printing and publishing .....	1,564	1,564	1,564	1,565	1,566	1,570	1,571	1,568	1,568	1,569	1,566	1,563	1,566
Chemicals and allied products .....	1,035	1,036	1,036	1,035	1,039	1,037	1,038	1,036	1,036	1,034	1,035	1,035	1,032
Petroleum and coal products .....	136	136	136	137	136	137	135	134	135	134	134	136	133
Rubber and misc. plastics products .....	1,006	1,007	1,009	1,008	1,006	1,006	998	1,006	1,007	1,004	1,005	1,008	1,013
Leather and leather products .....	86	86	85	84	83	83	81	80	80	79	78	77	77
<b>Service-producing</b> .....	99,343	99,518	99,638	99,895	100,261	100,447	100,734	100,938	101,122	101,318	101,620	101,840	102,092
<b>Transportation and public utilities</b> .....	6,473	6,494	6,504	6,513	6,534	6,538	6,550	6,570	6,579	6,595	6,604	6,629	6,651
Transportation .....	4,148	4,164	4,170	4,173	4,191	4,196	4,208	4,235	4,237	4,247	4,249	4,264	4,277
Railroad transportation .....	231	231	231	231	232	232	231	232	234	234	231	233	235
Local and interurban passenger transit .....	456	459	460	453	459	458	466	469	466	467	468	468	467
Trucking and warehousing .....	1,684	1,688	1,690	1,702	1,703	1,709	1,709	1,719	1,716	1,721	1,721	1,729	1,741
Water transportation .....	177	181	183	181	185	183	188	192	191	191	193	191	192
Transportation by air .....	1,142	1,145	1,146	1,147	1,151	1,154	1,154	1,161	1,166	1,167	1,167	1,172	1,170
Pipelines, except natural gas .....	14	14	14	14	14	14	14	14	14	14	14	14	14
Transportation services .....	444	446	446	445	447	446	446	448	450	453	455	457	458
Communications and public utilities .....	2,325	2,330	2,334	2,340	2,343	2,342	2,342	2,335	2,342	2,348	2,355	2,365	2,374
Communications .....	1,466	1,471	1,475	1,484	1,486	1,488	1,488	1,483	1,490	1,498	1,502	1,512	1,523
Electric, gas, and sanitary services .....	859	859	859	856	857	854	854	852	852	850	853	853	851
<b>Wholesale trade</b> .....	6,759	6,769	6,783	6,798	6,815	6,821	6,827	6,838	6,862	6,864	6,877	6,884	6,912
Durable goods .....	4,017	4,030	4,039	4,050	4,059	4,067	4,072	4,084	4,094	4,096	4,102	4,105	4,113
Nondurable goods .....	2,742	2,739	2,744	2,748	2,756	2,754	2,755	2,754	2,768	2,768	2,775	2,779	2,799

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
<b>Retail trade</b> .....	22,280	22,283	22,259	22,335	22,423	22,448	22,547	22,545	22,592	22,589	22,672	22,711	22,741
Building materials and garden supplies .....	954	959	966	971	972	975	977	979	984	987	991	999	1,012
General merchandise stores .....	2,771	2,756	2,759	2,784	2,788	2,784	2,790	2,784	2,800	2,812	2,842	2,828	2,798
Department stores .....	2,439	2,427	2,428	2,447	2,462	2,457	2,454	2,459	2,466	2,481	2,504	2,495	2,464
Food stores .....	3,528	3,533	3,536	3,533	3,542	3,538	3,552	3,551	3,557	3,554	3,558	3,562	3,557
Automotive dealers and service stations .....	2,331	2,331	2,333	2,337	2,345	2,351	2,355	2,354	2,361	2,367	2,370	2,378	2,387
New and used car dealers .....	1,056	1,056	1,056	1,058	1,060	1,064	1,066	1,066	1,065	1,067	1,069	1,073	1,073
Apparel and accessory stores .....	1,108	1,100	1,098	1,105	1,106	1,108	1,111	1,112	1,109	1,101	1,105	1,099	1,109
Furniture and home furnishings stores .....	1,039	1,043	1,048	1,045	1,055	1,058	1,063	1,070	1,071	1,076	1,082	1,082	1,092
Eating and drinking places .....	7,685	7,694	7,645	7,681	7,714	7,726	7,781	7,770	7,790	7,778	7,807	7,854	7,860
Miscellaneous retail establishments .....	2,864	2,867	2,874	2,879	2,901	2,908	2,918	2,925	2,920	2,914	2,917	2,909	2,926
<b>Finance, insurance, and real estate</b> .....	7,213	7,232	7,258	7,289	7,311	7,333	7,370	7,372	7,393	7,417	7,441	7,459	7,481
Finance .....	3,485	3,496	3,512	3,521	3,536	3,547	3,565	3,572	3,578	3,598	3,605	3,614	3,625
Depository institutions .....	2,037	2,039	2,041	2,041	2,044	2,042	2,042	2,042	2,038	2,043	2,043	2,045	2,047
Commercial banks .....	1,463	1,464	1,465	1,463	1,463	1,459	1,459	1,457	1,456	1,456	1,455	1,456	1,457
Savings institutions .....	262	262	262	263	264	264	265	264	264	265	265	264	266
Nondepository institutions .....	589	593	602	605	611	616	624	628	630	640	649	652	656
Mortgage bankers and brokers .....	264	270	276	278	281	284	289	294	298	305	310	313	314
Security and commodity brokers .....	625	629	633	636	641	648	655	657	662	666	663	666	668
Holding and other investment offices .....	234	235	236	239	240	241	244	245	248	249	250	251	254
Insurance .....	2,293	2,297	2,302	2,312	2,320	2,328	2,337	2,339	2,346	2,350	2,357	2,362	2,362
Insurance carriers .....	1,558	1,560	1,566	1,574	1,579	1,586	1,594	1,595	1,599	1,601	1,606	1,612	1,613
Insurance agents, brokers, and service .....	735	737	736	738	741	742	743	744	747	749	751	750	749
Real estate .....	1,435	1,439	1,444	1,456	1,455	1,458	1,468	1,461	1,469	1,469	1,479	1,483	1,494
<b>Services<sup>1</sup></b> .....	36,932	37,020	37,106	37,196	37,350	37,494	37,614	37,691	37,768	37,905	38,040	38,137	38,251
Agricultural services .....	696	696	695	706	700	706	713	719	722	727	737	750	749
Hotels and other lodging places .....	1,762	1,756	1,755	1,767	1,769	1,773	1,781	1,786	1,781	1,783	1,777	1,776	1,779
Personal services .....	1,176	1,177	1,178	1,186	1,190	1,186	1,184	1,185	1,179	1,178	1,180	1,181	1,179
Business services .....	8,351	8,384	8,412	8,422	8,491	8,556	8,565	8,619	8,605	8,677	8,715	8,757	8,805
Services to buildings .....	960	961	966	965	975	975	980	978	986	987	989	993	1,000
Personnel supply services .....	3,139	3,152	3,149	3,140	3,156	3,189	3,151	3,178	3,152	3,161	3,177	3,199	3,211
Help supply services .....	2,804	2,820	2,819	2,806	2,818	2,853	2,815	2,850	2,818	2,829	2,840	2,854	2,862
Computer and data processing services .....	1,507	1,522	1,538	1,561	1,578	1,601	1,622	1,632	1,643	1,661	1,680	1,690	1,707
Auto repair, services, and parking .....	1,147	1,144	1,145	1,146	1,153	1,159	1,162	1,167	1,168	1,169	1,175	1,178	1,182
Miscellaneous repair services .....	381	382	382	383	385	387	385	386	388	389	391	393	396
Motion pictures .....	563	569	565	563	567	554	564	566	568	567	563	566	565
Amusement and recreation services .....	1,633	1,641	1,647	1,660	1,662	1,670	1,694	1,705	1,717	1,718	1,744	1,733	1,746
Health services .....	9,837	9,852	9,867	9,873	9,887	9,905	9,902	9,919	9,937	9,947	9,955	9,957	9,963
Offices and clinics of medical doctors .....	1,784	1,788	1,796	1,801	1,806	1,813	1,817	1,828	1,835	1,843	1,849	1,845	1,854
Nursing and personal care facilities .....	1,759	1,761	1,761	1,760	1,762	1,761	1,756	1,754	1,758	1,755	1,753	1,750	1,752
Hospitals .....	3,916	3,920	3,925	3,938	3,945	3,953	3,960	3,966	3,971	3,977	3,978	3,982	3,981
Home health care services .....	706	702	698	687	684	683	673	670	667	662	661	662	655
Legal services .....	964	967	970	972	977	980	984	985	991	995	994	996	998
Educational services .....	2,169	2,179	2,189	2,192	2,195	2,200	2,205	2,198	2,218	2,238	2,245	2,253	2,250
Social services .....	2,570	2,577	2,587	2,595	2,609	2,627	2,657	2,632	2,652	2,659	2,672	2,684	2,694
Child day care services .....	575	574	575	577	575	581	583	586	583	583	586	588	591
Residential care .....	736	741	744	746	749	747	749	752	758	762	764	766	768
Museums and botanical and zoological gardens .....	91	92	92	92	91	91	91	92	92	92	94	94	94
Membership organizations .....	2,260	2,261	2,263	2,265	2,266	2,270	2,272	2,273	2,276	2,281	2,279	2,283	2,286
Engineering and management services .....	3,137	3,148	3,164	3,178	3,212	3,234	3,259	3,264	3,280	3,293	3,321	3,338	3,365
Engineering and architectural services .....	897	899	904	910	913	921	925	927	926	927	932	934	940
Management and public relations .....	1,004	1,007	1,012	1,011	1,029	1,037	1,052	1,055	1,066	1,075	1,092	1,097	1,109
<b>Government</b> .....	19,686	19,720	19,728	19,764	19,828	19,813	19,826	19,922	19,928	19,948	19,986	20,020	20,056
Federal .....	2,670	2,676	2,671	2,674	2,671	2,674	2,672	2,683	2,687	2,713	2,725	2,707	2,707
Federal, except Postal Service .....	1,822	1,819	1,815	1,814	1,810	1,813	1,810	1,816	1,813	1,834	1,845	1,819	1,816
State .....	4,613	4,613	4,619	4,620	4,637	4,632	4,645	4,661	4,680	4,671	4,674	4,686	4,687
Education .....	1,924	1,924	1,928	1,925	1,932	1,933	1,938	1,949	1,960	1,949	1,945	1,955	1,953
Other State government .....	2,689	2,689	2,691	2,695	2,705	2,699	2,707	2,712	2,720	2,722	2,729	2,731	2,734
Local .....	12,403	12,431	12,438	12,470	12,520	12,507	12,509	12,578	12,561	12,564	12,587	12,627	12,662
Education .....	6,980	6,999	7,003	7,023	7,053	7,045	7,078	7,128	7,088	7,083	7,114	7,136	7,161
Other local government .....	5,423	5,432	5,435	5,447	5,467	5,462	5,431	5,450	5,473	5,481	5,473	5,491	5,501

<sup>1</sup> Includes other industries, not shown separately.  
P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1997

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



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1997		1998										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>Total</b> .....	59,974	60,114	60,220	60,308	60,380	60,460	60,689	60,791	60,893	61,008	61,130	61,184	61,258
<b>Total private</b> .....	49,026	49,142	49,239	49,306	49,369	49,446	49,626	49,725	49,854	49,893	49,975	50,024	50,095
<b>Goods-producing</b> .....	6,741	6,759	6,766	6,767	6,770	6,759	6,762	6,763	6,703	6,722	6,724	6,696	6,671
<b>Mining</b> .....	82	83	83	83	83	82	82	82	81	82	82	80	80
<b>Construction</b> .....	645	648	650	654	655	656	662	669	672	677	676	679	682
<b>Manufacturing</b> .....	6,014	6,028	6,033	6,030	6,032	6,021	6,018	6,012	5,950	5,963	5,966	5,937	5,909
<b>Durable goods</b> .....	2,952	2,962	2,973	2,979	2,982	2,980	2,976	2,976	2,938	2,954	2,951	2,941	2,923
Lumber and wood products .....	139	139	140	141	141	141	141	142	143	143	144	144	145
Furniture and fixtures .....	161	162	163	164	165	166	166	167	168	167	166	167	166
Stone, clay, and glass products .....	106	105	107	107	107	106	107	107	107	107	106	107	106
Primary metal industries .....	104	104	104	104	104	105	103	105	102	104	104	104	104
Fabricated metal products .....	330	331	333	334	334	334	334	334	334	336	336	336	334
Industrial machinery and equipment .....	482	484	485	486	485	485	482	482	478	475	474	472	469
Electronic and other electrical equipment .....	708	712	714	716	716	712	710	708	702	697	695	687	681
Transportation equipment .....	399	401	400	401	402	404	406	406	380	402	404	406	403
Instruments and related products .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing .....	169	170	171	171	171	171	171	170	169	169	169	166	165
<b>Nondurable goods</b> .....	3,062	3,066	3,060	3,051	3,050	3,041	3,042	3,036	3,012	3,009	3,015	2,996	2,986
Food and kindred products .....	557	558	559	559	559	560	562	560	548	554	559	555	560
Tobacco products .....	13	13	13	13	13	14	13	13	12	12	12	13	13
Textile mill products .....	283	283	281	280	278	279	279	277	276	274	275	274	271
Apparel and other textile products .....	594	594	589	582	583	575	571	567	565	557	555	542	535
Paper and allied products .....	168	168	168	168	168	167	167	167	165	165	165	165	163
Printing and publishing .....	705	705	706	705	706	705	707	710	710	707	708	709	706
Chemicals and allied products .....	330	331	330	331	330	330	332	331	333	332	333	331	332
Petroleum and coal products .....	24	25	24	24	24	24	24	24	23	23	23	23	23
Rubber and misc. plastics products .....	342	343	345	344	344	343	343	343	338	343	343	342	342
Leather and leather products .....	46	46	45	45	45	44	44	44	42	42	42	42	41
<b>Service-producing</b> .....	53,233	53,355	53,454	53,541	53,610	53,701	53,927	54,028	54,190	54,286	54,406	54,488	54,587
<b>Transportation and public utilities</b> .....	1,944	1,939	1,946	1,948	1,949	1,951	1,960	1,963	1,969	1,980	1,991	2,002	1,999
<b>Wholesale trade</b> .....	2,066	2,067	2,078	2,077	2,078	2,082	2,089	2,090	2,096	2,096	2,096	2,099	2,104
<b>Retail trade</b> .....	11,677	11,700	11,713	11,712	11,707	11,720	11,786	11,819	11,884	11,875	11,902	11,898	11,906
<b>Finance, insurance, and real estate</b> .....	4,511	4,526	4,539	4,546	4,563	4,582	4,593	4,604	4,617	4,619	4,629	4,643	4,658
<b>Services</b> .....	22,087	22,151	22,197	22,256	22,302	22,352	22,436	22,486	22,585	22,601	22,633	22,686	22,757
<b>Government</b> .....	10,948	10,972	10,981	11,002	11,011	11,014	11,063	11,066	11,039	11,115	11,155	11,160	11,163
Federal .....	1,144	1,154	1,141	1,140	1,137	1,136	1,136	1,142	1,127	1,133	1,137	1,148	1,146
State .....	2,365	2,363	2,365	2,367	2,371	2,369	2,375	2,377	2,385	2,397	2,405	2,406	2,406
Local .....	7,439	7,455	7,475	7,495	7,503	7,509	7,552	7,547	7,527	7,585	7,613	7,606	7,611

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

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-5. Production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
<b>Total private</b> .....	85,947	86,073	86,113	86,282	86,526	86,698	86,787	86,903	87,072	87,188	87,337	87,565	87,638
<b>Goods-producing</b> .....	18,039	18,037	17,996	18,043	17,989	17,984	17,803	17,896	17,910	17,889	17,855	17,950	17,912
<b>Mining</b> .....	450	450	445	440	440	438	434	432	431	428	424	422	410
<b>Construction</b> .....	4,566	4,563	4,538	4,596	4,578	4,603	4,623	4,628	4,614	4,640	4,666	4,767	4,745
<b>Manufacturing</b> .....	13,023	13,024	13,013	13,007	12,971	12,943	12,746	12,836	12,865	12,821	12,765	12,761	12,757
<b>Durable goods</b> .....	7,669	7,676	7,669	7,666	7,642	7,626	7,468	7,577	7,584	7,566	7,522	7,519	7,512
Lumber and wood products .....	660	660	659	660	660	658	661	660	661	662	664	668	675
Furniture and fixtures .....	412	413	415	418	419	417	420	418	417	417	417	421	421
Stone, clay, and glass products .....	441	441	436	436	436	438	438	440	441	441	444	446	444
Primary metal industries .....	564	564	565	563	561	561	551	558	557	553	546	546	543
Fabricated metal products .....	1,130	1,132	1,131	1,132	1,127	1,122	1,111	1,118	1,120	1,118	1,115	1,113	1,118
Industrial machinery and equipment .....	1,389	1,391	1,391	1,389	1,389	1,392	1,385	1,384	1,380	1,377	1,367	1,361	1,348
Electronic and other electrical equipment .....	1,089	1,087	1,085	1,081	1,079	1,075	1,062	1,056	1,059	1,050	1,039	1,037	1,037
Transportation equipment .....	1,279	1,283	1,281	1,279	1,267	1,262	1,138	1,245	1,251	1,257	1,243	1,240	1,240
Motor vehicles and equipment .....	787	788	784	784	774	768	641	752	757	762	752	751	751
Instruments and related products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Miscellaneous manufacturing .....	273	273	273	274	271	270	271	269	269	264	262	263	262
<b>Nondurable goods</b> .....	5,354	5,348	5,344	5,341	5,329	5,317	5,278	5,259	5,281	5,255	5,243	5,242	5,245
Food and kindred products .....	1,265	1,267	1,267	1,271	1,273	1,270	1,256	1,249	1,265	1,264	1,272	1,276	1,283
Tobacco products .....	32	32	32	33	32	31	30	30	31	31	31	30	31
Textile mill products .....	516	514	513	513	511	509	503	499	502	499	493	490	489
Apparel and other textile products .....	652	645	643	633	627	624	622	613	612	596	587	586	577
Paper and allied products .....	525	525	525	524	522	520	516	517	515	515	512	511	510
Printing and publishing .....	850	848	845	846	847	848	846	844	844	844	840	837	840
Chemicals and allied products .....	580	582	583	583	584	584	584	581	582	581	581	582	583
Petroleum and coal products .....	89	89	89	90	89	89	89	88	89	89	89	91	89
Rubber and misc. plastics products .....	780	781	783	784	781	780	771	778	780	777	779	781	786
Leather and leather products .....	65	65	64	64	63	62	61	60	59	59	59	58	57
<b>Service-producing</b> .....	67,908	68,036	68,117	68,239	68,537	68,714	68,984	69,007	69,162	69,299	69,482	69,615	69,726
<b>Transportation and public utilities</b> .....	5,374	5,372	5,375	5,373	5,402	5,401	5,424	5,456	5,457	5,472	5,480	5,503	5,530
<b>Wholesale trade</b> .....	5,426	5,431	5,436	5,448	5,457	5,464	5,477	5,479	5,497	5,500	5,510	5,516	5,534
<b>Retail trade</b> .....	19,585	19,605	19,582	19,596	19,710	19,719	19,817	19,795	19,828	19,825	19,878	19,907	19,922
<b>Finance, insurance, and real estate</b> .....	5,287	5,307	5,329	5,353	5,367	5,391	5,416	5,417	5,426	5,449	5,466	5,477	5,490
<b>Services</b> .....	32,236	32,321	32,395	32,469	32,601	32,739	32,850	32,860	32,954	33,053	33,148	33,212	33,250

<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> This series is not published seasonally adjusted because the seasonal component, which is small relative to the trend-cycle and irregular components,

cannot be separated with sufficient precision.

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Private nonfarm payrolls, 356 industries<sup>1</sup></b>												
Over 1-month span:												
1995 .....	62.5	60.0	54.9	55.6	47.8	55.6	54.8	59.0	58.0	55.8	54.5	58.8
1996 .....	50.8	64.6	59.6	56.6	62.8	61.0	57.3	61.5	56.0	62.5	62.2	60.7
1997 .....	58.0	61.4	59.8	63.6	60.1	54.6	61.1	59.1	60.0	64.3	62.4	64.9
1998 .....	63.8	58.7	59.6	56.9	56.6	59.0	55.1	53.9	53.5	52.4	54.8	P56.7
1999 .....	P56.9											
Over 3-month span:												
1995 .....	63.6	61.4	59.4	53.1	55.2	53.2	59.7	60.1	59.1	58.0	56.6	54.6
1996 .....	61.9	62.8	64.0	63.8	63.5	64.9	64.2	61.5	63.9	64.2	67.0	66.6
1997 .....	64.9	63.3	65.6	66.2	63.9	61.2	60.1	65.9	67.4	68.1	70.8	71.9
1998 .....	68.4	67.3	64.2	61.7	60.4	58.4	57.2	56.7	56.0	53.7	P57.4	P59.6
1999 .....												
Over 6-month span:												
1995 .....	66.4	60.1	59.1	57.3	59.0	60.1	57.6	60.4	59.7	59.3	61.1	63.2
1996 .....	62.8	65.4	64.7	65.7	66.2	65.0	66.4	66.0	66.2	67.6	66.9	66.3
1997 .....	67.6	67.0	65.3	64.9	65.6	67.3	68.0	67.3	70.6	72.3	73.3	72.6
1998 .....	72.1	70.9	69.4	63.5	64.5	61.8	59.0	58.1	P59.1	P60.3		
1999 .....												
Over 12-month span:												
1995 .....	63.6	62.4	62.6	63.3	61.7	61.9	58.7	62.2	62.2	61.5	63.5	65.4
1996 .....	64.5	66.7	64.5	65.6	68.5	67.3	67.7	66.4	68.0	69.9	69.1	68.3
1997 .....	69.8	67.6	69.2	70.1	69.8	69.8	71.2	71.2	71.1	73.0	72.9	72.3
1998 .....	71.2	69.5	69.5	66.6	65.2	P64.2	P63.3					
1999 .....												
<b>Manufacturing payrolls, 139 industries<sup>1</sup></b>												
Over 1-month span:												
1995 .....	54.7	54.3	46.4	53.2	42.4	44.2	46.4	49.6	48.6	52.2	45.3	48.2
1996 .....	42.8	54.7	48.2	42.1	55.4	50.7	47.1	55.4	47.8	52.9	54.3	55.4
1997 .....	49.3	54.3	50.0	56.8	51.4	52.2	50.4	48.9	56.5	57.2	56.1	60.8
1998 .....	55.8	51.8	52.5	48.6	45.0	47.8	39.6	47.5	43.2	38.8	37.1	P46.0
1999 .....	P43.5											
Over 3-month span:												
1995 .....	56.8	50.0	47.8	42.1	43.2	38.8	40.6	43.5	48.2	47.1	45.3	39.9
1996 .....	43.9	46.8	46.0	47.5	46.4	49.3	51.4	50.0	53.6	51.1	57.6	54.7
1997 .....	54.3	49.3	54.3	54.0	55.4	50.4	47.5	52.2	57.9	62.6	64.7	65.5
1998 .....	60.1	59.0	50.7	46.4	43.2	38.8	36.7	34.2	41.4	30.9	P35.6	P38.1
1999 .....												
Over 6-month span:												
1995 .....	55.4	46.4	42.8	40.3	41.4	42.4	41.0	41.0	43.9	43.2	43.2	45.3
1996 .....	42.1	45.3	46.4	47.1	48.2	48.6	51.1	50.4	52.9	52.9	53.2	52.2
1997 .....	54.3	54.3	51.4	52.9	51.4	55.0	56.8	57.6	60.4	64.4	67.6	65.8
1998 .....	61.5	56.8	52.2	39.2	40.6	34.5	30.9	28.1	P32.0	P39.2		
1999 .....												
Over 12-month span:												
1995 .....	46.0	44.2	46.0	47.8	41.0	41.7	38.5	38.8	36.3	38.5	39.9	44.6
1996 .....	43.5	47.5	45.3	45.3	50.4	49.6	50.4	48.6	51.1	55.0	54.0	51.8
1997 .....	57.2	52.5	54.7	56.5	57.9	57.6	58.6	58.6	60.4	60.4	59.4	58.3
1998 .....	50.7	51.1	50.4	41.7	38.5	P36.7	P32.7					
1999 .....												

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

P = preliminary.

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

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

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997		1998										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
	Total <sup>1</sup>												
Alabama .....	1,871.9	1,876.0	1,877.2	1,879.4	1,878.2	1,882.3	1,884.4	1,881.5	1,886.3	1,886.1	1,886.2	1,886.1	1,884.9
Alaska .....	268.3	270.2	273.1	273.7	273.8	274.1	274.1	276.1	274.1	273.9	273.8	274.2	273.9
Arizona .....	2,021.9	2,031.5	2,037.9	2,045.6	2,048.3	2,060.0	2,073.8	2,064.2	2,072.9	2,092.9	2,091.0	2,103.0	2,107.0
Arkansas .....	1,111.6	1,110.5	1,113.1	1,118.9	1,124.0	1,125.8	1,125.5	1,125.7	1,130.1	1,125.5	1,126.1	1,128.8	1,128.5
California .....	13,398.3	13,401.2	13,439.9	13,485.6	13,512.4	13,556.0	13,582.6	13,586.2	13,619.7	13,656.0	13,698.2	13,740.8	13,745.2
Colorado .....	2,009.5	2,017.8	2,019.9	2,023.9	2,022.0	2,038.1	2,045.3	2,054.9	2,054.2	2,062.0	2,065.5	2,070.2	2,074.7
Connecticut .....	1,642.6	1,639.6	1,641.2	1,639.6	1,641.9	1,641.8	1,644.9	1,643.8	1,649.9	1,640.7	1,649.7	1,654.8	1,662.6
Delaware .....	395.5	394.6	396.6	398.0	398.3	400.3	399.7	399.0	401.1	403.1	404.2	405.9	408.1
District of Columbia .....	610.4	613.1	609.4	610.9	609.7	610.3	610.6	605.0	611.9	612.2	611.7	611.4	610.5
Florida .....	6,551.6	6,566.0	6,577.9	6,604.1	6,610.3	6,645.5	6,667.0	6,692.9	6,708.3	6,728.4	6,743.6	6,771.8	6,778.7
Georgia .....	3,690.0	3,690.7	3,707.4	3,714.9	3,718.2	3,729.2	3,727.7	3,724.9	3,740.4	3,752.8	3,757.5	3,776.7	3,784.6
Hawaii .....	530.5	528.6	528.4	529.0	527.8	527.7	525.6	522.6	526.6	531.0	526.7	524.2	522.3
Idaho .....	514.0	515.1	516.1	516.7	516.6	516.1	516.9	519.4	521.3	519.1	523.6	524.0	524.5
Illinois .....	5,833.8	5,837.8	5,833.2	5,834.5	5,852.9	5,863.7	5,877.4	5,884.7	5,879.1	5,880.0	5,890.5	5,889.7	5,912.6
Indiana .....	2,884.0	2,874.6	2,878.8	2,880.0	2,891.4	2,898.7	2,885.8	2,861.6	2,879.3	2,884.9	2,886.7	2,884.6	2,896.2
Iowa .....	1,419.2	1,423.0	1,426.1	1,429.2	1,436.7	1,439.0	1,439.9	1,450.6	1,442.2	1,442.2	1,448.5	1,444.3	1,451.4
Kansas .....	1,287.4	1,291.5	1,294.4	1,294.4	1,297.7	1,305.7	1,304.2	1,305.4	1,305.3	1,309.2	1,312.2	1,316.1	1,318.3
Kentucky .....	1,732.0	1,738.5	1,735.4	1,738.0	1,745.1	1,749.3	1,751.9	1,747.1	1,759.2	1,756.4	1,755.4	1,757.1	1,761.0
Louisiana .....	1,869.8	1,870.5	1,875.8	1,879.4	1,879.4	1,884.5	1,890.0	1,885.4	1,882.6	1,884.8	1,885.5	1,889.8	1,892.9
Maine .....	561.4	558.1	560.8	561.0	561.0	560.9	562.3	564.1	564.9	567.9	569.3	570.4	571.4
Maryland .....	2,273.8	2,282.0	2,282.4	2,277.2	2,272.8	2,272.0	2,275.3	2,279.2	2,282.4	2,298.8	2,309.3	2,314.3	2,320.8
Massachusetts .....	3,168.4	3,173.0	3,185.5	3,190.6	3,196.7	3,207.5	3,205.1	3,212.4	3,208.9	3,210.3	3,212.4	3,216.9	3,225.9
Michigan .....	4,489.6	4,495.7	4,506.7	4,503.3	4,525.7	4,541.4	4,541.2	4,474.9	4,541.9	4,554.9	4,565.4	4,562.8	4,557.4
Minnesota .....	2,518.5	2,514.1	2,522.3	2,530.1	2,528.3	2,541.8	2,551.7	2,554.7	2,559.6	2,547.5	2,564.1	2,564.5	2,568.7
Mississippi .....	1,112.6	1,117.6	1,120.9	1,117.2	1,120.7	1,122.9	1,121.4	1,128.9	1,122.6	1,119.3	1,124.7	1,123.2	1,124.8
Missouri .....	2,658.9	2,664.4	2,662.9	2,651.6	2,663.3	2,675.3	2,677.7	2,666.5	2,676.2	2,686.7	2,687.5	2,689.1	2,694.3
Montana .....	370.3	368.7	370.6	370.2	370.6	373.0	368.4	370.9	369.9	370.1	370.5	372.8	374.8
Nebraska .....	868.6	874.0	878.5	873.0	878.2	876.5	876.2	880.6	877.0	878.8	879.8	881.2	883.8
Nevada .....	907.2	907.0	912.8	916.0	920.9	921.8	927.8	931.8	935.2	940.5	948.1	948.8	951.3
New Hampshire .....	570.0	572.7	572.6	570.7	573.8	574.2	573.9	575.6	570.4	569.3	571.6	570.7	572.1
New Jersey .....	3,766.5	3,771.3	3,784.2	3,788.0	3,785.2	3,796.8	3,801.8	3,796.4	3,804.0	3,815.0	3,815.6	3,821.5	3,832.4
New Mexico .....	713.9	712.7	713.1	714.4	713.0	715.2	719.2	720.5	722.5	722.2	723.3	724.2	726.1
New York .....	8,095.6	8,082.4	8,098.6	8,117.5	8,124.9	8,140.0	8,146.4	8,138.4	8,166.8	8,187.1	8,207.4	8,217.8	8,235.7
North Carolina .....	3,715.4	3,719.6	3,734.1	3,735.5	3,739.3	3,746.2	3,739.5	3,728.2	3,776.5	3,753.3	3,760.4	3,766.2	3,779.3
North Dakota .....	316.2	317.4	319.0	318.1	318.0	318.6	320.0	319.9	317.0	317.5	316.8	316.4	317.5
Ohio .....	5,421.7	5,439.2	5,436.3	5,445.3	5,448.6	5,460.4	5,459.1	5,431.7	5,470.7	5,475.6	5,484.4	5,484.2	5,485.4
Oklahoma .....	1,405.1	1,405.7	1,410.7	1,415.9	1,418.4	1,427.8	1,423.5	1,421.9	1,430.3	1,436.7	1,436.7	1,443.6	1,445.9
Oregon .....	1,551.0	1,551.8	1,557.3	1,561.9	1,563.9	1,564.6	1,563.6	1,564.5	1,563.8	1,566.7	1,573.0	1,576.8	1,584.7
Pennsylvania .....	5,446.5	5,453.9	5,448.0	5,447.2	5,455.7	5,457.8	5,444.0	5,464.2	5,460.8	5,491.8	5,479.5	5,484.8	5,488.7
Rhode Island .....	453.4	452.7	454.1	453.7	455.3	456.8	455.0	454.6	453.4	455.2	455.2	455.8	456.3
South Carolina .....	1,749.1	1,763.5	1,767.8	1,775.6	1,784.8	1,788.2	1,804.1	1,794.9	1,797.3	1,804.3	1,806.4	1,816.1	1,820.5
South Dakota .....	356.1	354.9	357.0	357.3	358.0	360.3	358.5	360.0	360.5	361.0	361.8	362.8	362.4
Tennessee .....	2,605.3	2,618.6	2,620.7	2,623.6	2,623.5	2,621.3	2,623.5	2,620.9	2,616.2	2,625.9	2,634.8	2,640.5	2,643.4
Texas .....	8,760.7	8,755.4	8,801.2	8,824.5	8,855.0	8,873.9	8,877.8	8,888.3	8,915.1	8,938.6	8,955.4	8,973.3	8,986.9
Utah .....	1,014.3	1,015.6	1,018.2	1,024.3	1,024.4	1,026.3	1,024.1	1,022.0	1,024.4	1,027.8	1,030.9	1,030.4	1,035.5
Vermont .....	281.4	279.3	280.0	280.1	281.5	282.6	283.8	282.3	283.9	283.7	282.9	283.7	285.1
Virginia .....	3,278.7	3,280.0	3,291.1	3,303.6	3,306.9	3,314.1	3,322.2	3,331.8	3,337.7	3,340.1	3,343.1	3,345.4	3,355.5
Washington .....	2,543.6	2,546.0	2,558.5	2,566.4	2,576.5	2,587.9	2,593.4	2,606.1	2,615.1	2,603.4	2,609.9	2,612.4	2,622.8
West Virginia .....	717.1	715.3	715.6	715.2	715.1	724.2	714.2	713.3	717.2	721.7	726.6	725.2	728.3
Wisconsin .....	2,684.9	2,691.4	2,694.1	2,696.5	2,702.6	2,709.6	2,713.1	2,709.5	2,724.8	2,717.0	2,715.8	2,722.0	2,727.8
Wyoming .....	223.0	222.8	222.4	223.9	224.3	225.8	224.4	227.9	229.0	226.2	225.6	226.5	227.8

See footnotes at end of table.

ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED

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

(In thousands)

State	1997		1998										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
	Construction												
Alabama .....	96.2	97.1	97.9	97.0	98.7	100.2	100.8	101.2	101.9	100.0	99.7	100.5	101.8
Alaska .....	12.8	12.8	12.8	12.8	13.0	13.0	13.2	13.2	13.2	12.9	12.9	13.2	13.2
Arizona .....	131.6	134.5	133.5	134.5	133.3	135.2	136.7	137.7	137.0	139.5	139.9	141.5	143.2
Arkansas .....	48.1	47.5	47.5	47.7	48.8	49.4	49.3	49.6	49.3	49.9	49.9	50.1	50.4
California .....	577.9	583.4	582.3	591.9	591.6	593.1	604.6	613.1	616.2	615.3	623.8	626.7	624.0
Colorado .....	122.1	127.3	128.0	127.9	126.5	127.1	126.8	127.6	128.2	131.2	132.5	130.5	129.9
Connecticut .....	58.9	60.1	60.1	59.8	59.6	59.0	58.4	58.5	58.8	59.6	59.8	60.3	62.0
Delaware .....	22.5	23.1	22.8	22.2	22.1	21.7	22.1	22.5	22.6	22.9	22.9	23.4	23.7
District of Columbia .....	8.8	8.7	8.8	8.9	8.7	8.6	8.8	8.9	8.6	8.5	8.4	8.2	8.4
Florida .....	339.9	340.5	340.6	342.6	344.5	347.0	348.1	348.8	351.7	350.3	352.6	354.5	355.5
Georgia .....	175.2	177.2	177.2	178.2	178.5	179.7	180.0	179.8	181.7	182.7	183.0	184.4	186.4
Hawaii <sup>2</sup> .....	21.8	21.9	21.9	22.1	21.8	21.9	21.6	20.9	21.3	20.8	19.8	19.6	19.8
Idaho .....	32.3	32.7	33.2	32.6	32.9	31.9	32.4	32.2	32.8	32.3	32.7	32.6	31.7
Illinois .....	239.1	239.8	240.8	235.9	241.4	238.8	239.5	237.6	238.8	240.3	242.2	241.1	243.0
Indiana .....	142.9	143.3	143.8	140.6	144.5	143.2	138.6	139.9	139.1	138.4	139.3	139.9	140.1
Iowa .....	61.0	60.1	60.3	60.6	62.3	62.6	62.5	63.3	62.4	62.3	62.3	61.8	62.7
Kansas .....	59.3	60.7	60.8	58.5	60.2	61.7	62.0	62.2	62.7	61.9	62.1	61.9	63.5
Kentucky .....	82.3	85.2	83.3	85.4	86.3	86.4	86.1	85.8	86.1	85.9	85.9	85.6	86.0
Louisiana .....	117.1	117.9	118.0	118.4	118.6	119.8	122.2	123.3	122.8	122.4	123.8	125.6	125.1
Maine .....	24.4	24.4	24.4	24.2	24.1	24.2	24.4	24.6	25.0	25.4	25.4	25.6	26.2
Maryland .....	140.3	140.6	140.1	137.4	136.6	134.4	134.6	135.8	137.4	137.2	138.9	139.6	140.5
Massachusetts .....	104.4	107.9	108.8	108.3	108.2	107.8	107.4	108.9	108.8	107.4	108.2	110.5	112.2
Michigan .....	186.1	184.8	187.3	184.6	190.3	188.0	189.0	187.7	185.9	185.5	188.3	190.3	190.8
Minnesota .....	96.3	97.6	99.4	99.2	99.7	100.4	99.7	99.2	100.2	101.2	100.9	102.3	104.3
Mississippi .....	51.5	52.7	52.6	51.9	52.4	52.2	53.5	55.3	55.0	54.6	55.6	56.5	56.4
Missouri .....	124.9	123.1	124.8	118.5	123.6	124.0	122.8	127.8	126.8	127.3	128.7	130.3	131.7
Montana .....	18.9	18.9	18.7	18.2	18.0	18.2	17.8	18.3	18.0	17.3	17.4	17.8	18.2
Nebraska .....	40.9	42.8	42.4	40.8	40.9	40.7	39.9	40.3	41.0	40.6	40.6	40.3	42.4
Nevada .....	84.0	85.1	85.2	86.1	87.0	87.6	89.6	90.5	91.3	90.6	89.6	89.5	90.2
New Hampshire .....	21.4	21.8	22.0	22.2	22.4	22.4	21.9	22.0	21.8	21.8	21.6	21.9	22.3
New Jersey .....	131.9	135.6	137.1	136.4	136.2	135.4	135.8	136.7	137.3	138.5	137.8	138.2	139.1
New Mexico .....	42.2	42.1	42.1	42.2	42.6	42.9	43.2	43.4	43.5	43.0	43.2	42.5	42.7
New York .....	268.1	265.6	268.5	270.6	271.8	273.5	275.8	280.5	280.0	280.7	283.5	285.3	287.1
North Carolina .....	208.7	211.7	208.7	209.5	210.3	210.6	210.6	210.0	210.2	210.3	212.1	213.2	214.2
North Dakota .....	14.9	15.1	15.2	15.1	15.3	15.5	16.2	16.1	15.6	15.1	15.0	14.7	15.2
Ohio .....	225.3	226.7	228.4	228.1	232.9	233.5	233.4	232.0	234.4	233.8	232.9	234.3	234.0
Oklahoma .....	50.8	51.8	52.1	52.3	52.5	53.0	53.0	52.9	52.8	53.2	52.8	52.8	53.3
Oregon .....	84.6	82.3	84.3	84.9	85.7	83.0	82.0	82.0	82.9	81.7	84.6	84.7	85.3
Pennsylvania .....	217.1	218.4	219.4	220.6	222.2	223.2	222.9	220.8	221.6	220.6	220.2	222.4	227.1
Rhode Island .....	15.1	15.4	15.5	16.1	16.9	16.6	16.4	16.3	16.7	16.7	17.1	17.3	17.8
South Carolina .....	103.3	104.9	106.0	106.7	107.9	108.8	109.7	109.4	110.4	111.1	111.5	111.9	113.4
South Dakota .....	15.9	15.9	16.0	15.6	15.9	15.9	15.8	15.7	15.5	15.6	15.7	15.8	15.9
Tennessee .....	118.1	117.0	117.7	119.2	120.3	120.7	119.4	121.0	121.3	121.9	122.7	123.7	124.1
Texas .....	467.0	468.1	476.7	477.8	480.3	484.7	484.6	487.6	488.7	485.8	488.6	490.4	489.7
Utah .....	66.5	65.7	66.5	67.3	67.7	68.6	67.9	68.3	68.3	67.1	68.2	69.0	69.2
Vermont .....	13.3	12.7	12.6	12.5	13.0	13.2	13.3	13.2	13.0	13.0	13.1	13.2	13.5
Virginia .....	189.0	190.2	191.5	192.9	193.4	194.9	195.5	196.8	198.0	196.9	198.5	198.8	199.2
Washington .....	136.6	137.7	138.2	138.9	140.1	141.5	141.9	143.2	143.4	142.1	142.5	143.4	144.0
West Virginia .....	35.5	36.2	35.4	34.3	35.5	33.9	35.2	35.2	34.9	35.0	36.5	36.0	36.9
Wisconsin .....	110.0	110.2	111.6	110.9	111.9	113.3	112.8	113.6	114.2	113.7	114.2	116.3	117.6
Wyoming .....	14.9	14.9	15.0	15.1	15.3	15.9	15.2	15.7	16.1	15.4	15.2	15.1	15.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
	Manufacturing												
Alabama .....	378.6	380.2	379.2	378.0	377.1	376.6	375.0	372.1	373.2	373.9	371.4	367.4	368.9
Alaska .....	13.9	15.5	16.4	16.3	15.5	14.1	14.8	15.9	14.7	14.8	15.0	15.2	13.7
Arizona .....	212.9	214.7	215.0	215.1	215.5	215.1	215.7	216.3	216.5	216.6	216.6	216.5	217.2
Arkansas .....	254.0	255.5	255.3	255.1	255.6	255.3	255.8	253.2	254.7	253.9	253.9	253.3	253.3
California .....	1,941.6	1,943.2	1,945.2	1,947.1	1,944.3	1,947.4	1,944.9	1,931.6	1,934.0	1,943.0	1,946.1	1,938.0	1,938.6
Colorado .....	207.7	206.9	208.4	208.8	208.4	208.0	208.3	208.4	207.2	205.8	206.5	206.5	206.3
Connecticut .....	276.3	277.1	276.9	277.0	277.6	276.7	276.4	277.2	278.0	276.4	275.9	275.0	274.3
Delaware .....	58.7	56.7	57.3	58.8	58.8	59.1	59.4	56.9	59.0	58.9	59.0	59.4	59.6
District of Columbia .....	12.6	12.8	12.7	12.8	12.8	12.8	12.7	12.8	12.9	12.8	12.9	12.8	12.8
Florida .....	491.9	491.8	491.7	491.3	491.9	492.1	490.6	492.1	491.0	491.7	490.3	489.7	490.1
Georgia .....	590.0	589.1	587.1	589.9	590.4	591.4	591.3	587.5	594.0	590.9	593.7	592.9	593.0
Hawaii .....	16.5	16.5	16.4	16.4	16.3	16.2	16.1	16.0	15.9	16.1	16.0	16.0	16.0
Idaho .....	75.8	76.4	76.7	76.3	76.3	76.2	75.7	75.7	75.4	74.9	75.7	76.3	75.4
Illinois .....	980.9	981.3	980.2	980.5	981.8	980.1	980.2	978.0	976.7	978.2	981.3	974.1	972.8
Indiana .....	679.6	678.6	680.1	682.9	681.4	682.0	681.8	668.8	682.0	680.0	681.4	681.6	682.0
Iowa .....	256.3	256.5	257.0	258.4	258.3	259.1	259.2	263.6	260.1	258.7	259.8	258.8	259.3
Kansas .....	208.9	209.7	210.2	210.4	210.8	211.8	210.6	208.9	212.4	212.0	212.3	212.8	212.3
Kentucky .....	316.7	318.6	317.9	314.9	315.7	316.1	316.0	312.9	315.4	315.9	315.6	314.9	313.8
Louisiana .....	190.8	190.8	190.4	190.5	189.9	190.2	189.0	187.5	190.5	189.8	188.6	189.9	190.3
Maine .....	88.1	88.1	88.2	87.4	87.3	87.0	86.8	86.5	86.1	87.2	86.6	86.2	86.0
Maryland .....	176.7	176.6	177.1	176.8	176.1	175.8	175.8	173.1	172.0	175.0	174.7	173.9	173.6
Massachusetts .....	452.9	455.8	456.9	456.3	454.5	453.3	452.3	455.2	450.2	448.0	446.8	444.4	444.2
Michigan .....	969.3	970.9	973.2	973.8	981.3	978.8	972.8	916.1	977.7	977.5	978.7	971.0	968.3
Minnesota .....	440.4	440.7	438.7	442.4	441.6	442.5	444.8	442.0	443.1	440.8	441.8	441.6	441.6
Mississippi .....	241.1	241.8	242.6	241.5	241.8	242.2	240.6	240.2	238.2	239.1	239.4	238.9	240.1
Missouri .....	420.2	426.7	420.0	421.6	421.4	421.7	421.7	410.6	421.8	423.7	420.2	417.7	418.0
Montana .....	24.3	24.4	24.6	24.5	24.7	24.9	24.3	24.1	24.0	24.1	24.1	24.4	24.5
Nebraska .....	117.0	117.7	118.7	118.2	119.8	119.8	119.6	120.5	118.6	118.5	118.1	117.3	117.0
Nevada .....	41.4	41.7	41.9	42.4	42.3	42.5	42.9	42.9	42.8	43.0	43.0	43.0	42.8
New Hampshire .....	108.1	108.8	108.5	108.7	108.2	108.0	106.7	106.1	105.3	104.9	104.9	104.8	104.9
New Jersey .....	484.4	486.0	485.5	485.2	483.3	482.0	481.7	477.4	477.1	476.0	473.9	474.7	474.8
New Mexico .....	47.3	46.9	46.3	45.6	45.2	45.1	45.2	44.8	45.3	44.8	44.7	44.3	44.6
New York .....	925.1	923.0	920.3	920.4	918.2	916.9	917.2	901.8	917.6	917.6	916.5	914.5	915.8
North Carolina .....	833.5	833.1	833.7	833.1	831.2	830.8	827.1	823.4	823.8	822.1	819.1	818.4	817.7
North Dakota .....	23.6	24.0	23.9	23.9	23.8	24.1	23.6	23.6	23.8	23.6	23.3	23.6	23.6
Ohio .....	1,093.8	1,095.3	1,096.9	1,097.8	1,094.9	1,091.2	1,088.9	1,054.1	1,090.1	1,090.0	1,093.1	1,088.1	1,086.9
Oklahoma .....	183.7	184.2	184.4	184.4	183.7	185.1	185.3	184.3	185.7	185.5	185.8	186.6	186.2
Oregon .....	246.7	247.0	247.5	247.7	246.7	247.4	246.0	246.8	243.8	241.9	241.3	242.0	243.1
Pennsylvania .....	938.6	943.0	941.6	939.7	938.5	937.3	935.0	937.9	937.9	932.2	928.7	927.4	929.8
Rhode Island .....	80.1	79.4	79.4	79.3	78.8	79.1	78.9	79.5	78.1	78.3	78.2	77.6	77.8
South Carolina .....	362.2	362.2	361.4	362.5	364.2	364.2	364.1	367.5	361.8	364.2	363.3	363.0	363.1
South Dakota .....	49.9	49.0	49.6	49.6	49.2	49.0	48.9	49.7	50.1	50.1	50.2	50.3	50.4
Tennessee .....	517.7	517.8	518.2	518.5	516.4	514.2	514.2	511.1	509.5	507.9	507.4	505.8	506.2
Texas .....	1,093.9	1,093.3	1,093.4	1,095.9	1,097.2	1,098.0	1,098.0	1,095.6	1,098.5	1,097.6	1,096.8	1,094.0	1,093.3
Utah .....	134.0	135.1	135.3	135.4	135.4	135.7	135.0	134.3	134.4	134.5	134.4	135.2	135.5
Vermont .....	47.2	47.3	47.4	47.3	47.9	48.0	48.1	48.1	48.3	48.4	48.2	48.3	48.6
Virginia .....	405.8	406.4	406.6	407.6	407.5	405.7	405.5	404.3	404.8	406.0	404.8	403.4	402.6
Washington .....	376.0	376.5	377.4	377.8	376.9	378.2	379.5	379.8	377.7	375.7	373.1	371.6	370.8
West Virginia .....	82.7	83.0	83.1	82.9	83.1	83.0	82.9	81.8	82.3	82.5	82.5	82.0	82.7
Wisconsin .....	617.4	620.8	619.4	620.0	620.1	619.3	621.3	613.8	621.1	617.0	615.0	616.9	617.7
Wyoming .....	10.9	10.9	10.8	11.0	11.0	11.0	11.1	11.0	11.1	11.1	11.0	11.0	11.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
Transportation and public utilities													
Alabama .....	91.0	91.6	91.7	91.8	91.5	91.7	91.3	91.9	92.1	91.7	91.6	91.3	91.8
Alaska .....	24.4	24.4	24.7	24.6	25.0	25.7	25.2	25.3	25.6	25.1	25.0	24.8	25.2
Arizona .....	97.8	98.2	97.0	97.5	97.7	98.5	98.8	98.9	99.6	100.5	100.3	101.9	102.3
Arkansas .....	67.2	67.1	67.5	67.7	67.7	68.0	67.8	67.8	68.0	67.7	68.1	68.3	68.4
California .....	675.1	675.6	676.5	679.0	680.1	680.1	680.2	679.7	677.9	681.8	681.0	685.7	687.7
Colorado .....	121.2	122.5	122.5	122.0	122.7	123.3	124.7	126.4	126.7	126.9	126.5	127.0	127.8
Connecticut .....	75.7	75.3	75.8	76.1	76.0	76.7	76.4	76.3	76.3	70.5	76.0	76.2	76.9
Delaware .....	15.8	15.5	15.6	15.6	15.6	15.7	15.6	15.9	16.0	15.8	16.1	16.3	16.3
District of Columbia .....	17.5	17.7	17.3	17.2	17.1	17.0	16.8	16.9	16.9	16.7	16.6	16.7	16.6
Florida .....	332.2	335.6	336.2	338.1	336.6	338.9	339.9	340.2	341.7	343.7	343.4	344.0	345.8
Georgia .....	236.4	236.3	237.5	238.4	238.4	238.6	239.7	241.1	241.3	243.0	244.0	245.2	245.1
Hawaii .....	41.0	41.1	41.2	40.9	40.2	40.4	40.6	40.5	40.5	40.8	40.5	40.1	39.5
Idaho .....	24.2	24.7	24.4	25.8	24.4	24.3	24.4	24.3	24.8	24.8	24.7	24.8	25.3
Illinois .....	342.0	342.0	341.3	342.1	343.7	345.7	344.5	344.7	345.0	343.3	342.5	345.6	346.1
Indiana .....	141.5	142.3	142.6	142.8	142.9	142.5	140.7	141.1	140.7	140.8	142.1	142.2	142.8
Iowa .....	66.7	66.9	67.0	67.2	68.1	68.2	68.4	68.8	68.6	68.6	69.2	69.3	69.3
Kansas .....	72.9	72.9	73.0	73.3	73.5	73.9	74.1	73.6	74.6	74.5	75.2	75.6	75.4
Kentucky .....	99.4	99.5	99.7	100.0	101.5	101.7	102.4	102.1	103.0	102.7	102.3	101.7	102.4
Louisiana .....	112.1	111.7	112.5	112.8	113.4	113.8	114.2	114.1	114.2	113.9	114.1	114.6	114.9
Maine .....	23.5	23.5	23.9	23.8	23.8	24.0	24.1	24.1	23.7	24.0	23.9	23.9	24.1
Maryland .....	106.3	105.3	106.2	105.5	105.4	105.9	106.0	105.5	105.8	106.3	106.7	107.2	107.5
Massachusetts .....	135.3	136.8	137.5	137.6	138.6	138.4	138.6	138.1	137.2	138.2	137.2	135.6	136.2
Michigan .....	175.3	175.4	175.0	174.0	174.4	176.3	175.9	175.1	174.6	174.4	175.9	176.3	175.6
Minnesota .....	126.0	125.9	125.4	125.6	125.6	126.0	126.1	127.1	127.1	114.7	127.0	127.3	128.1
Mississippi .....	53.5	54.1	53.9	53.7	53.9	53.8	53.3	52.9	53.0	52.8	52.8	52.2	52.6
Missouri .....	164.3	165.9	165.4	165.6	166.4	166.0	165.5	164.8	164.8	164.8	165.1	165.4	165.9
Montana .....	21.3	21.5	21.6	21.5	21.6	21.5	21.3	21.2	21.0	21.1	21.3	21.2	21.1
Nebraska .....	54.6	54.9	55.0	54.8	55.1	54.9	55.6	56.1	56.2	56.8	56.7	57.1	57.6
Nevada .....	46.7	46.7	46.9	46.9	47.0	47.3	47.5	47.6	47.6	48.0	48.2	48.3	48.2
New Hampshire .....	19.4	19.7	19.4	19.3	19.8	19.3	19.0	19.2	19.3	19.2	19.1	19.4	19.5
New Jersey .....	260.4	260.4	261.9	261.9	262.0	263.0	263.8	263.9	264.3	265.9	264.2	263.5	263.3
New Mexico .....	32.5	32.5	32.5	32.7	33.0	33.3	33.3	33.5	33.4	33.2	33.6	33.7	33.6
New York .....	410.7	411.7	410.6	411.1	409.8	409.8	410.2	409.5	409.7	411.9	412.8	412.2	412.1
North Carolina .....	170.9	171.0	171.3	170.7	169.8	169.2	169.8	170.5	171.3	170.6	170.5	171.9	173.2
North Dakota .....	18.0	18.3	18.2	18.3	18.4	18.6	18.5	18.5	18.3	18.0	18.2	18.1	18.1
Ohio .....	233.3	235.4	235.4	235.2	234.9	234.9	234.4	233.4	234.1	234.0	234.8	234.5	233.5
Oklahoma .....	80.9	80.7	81.1	81.6	81.7	82.3	82.4	82.9	83.3	83.0	83.5	83.9	84.1
Oregon .....	74.4	74.5	74.6	74.7	75.6	75.7	75.5	75.3	75.0	76.0	75.6	75.9	76.1
Pennsylvania .....	278.2	281.0	280.8	280.4	281.5	280.7	280.3	281.5	280.6	282.7	281.7	281.7	280.4
Rhode Island .....	15.9	15.4	15.9	16.0	15.8	15.8	15.8	15.9	15.9	16.0	15.7	15.9	15.9
South Carolina .....	76.9	75.8	76.3	77.2	77.5	77.3	77.3	78.8	77.9	78.8	79.3	79.7	79.9
South Dakota .....	15.8	16.1	16.0	15.9	16.1	16.1	15.8	15.8	16.1	16.3	16.3	16.2	16.1
Tennessee .....	150.1	153.1	153.0	152.4	153.3	152.6	151.9	152.4	151.6	152.2	152.0	152.0	151.7
Texas .....	526.0	527.8	531.2	532.4	538.0	540.1	540.7	541.5	546.5	547.4	548.2	548.8	550.0
Utah .....	57.7	57.4	57.5	57.8	58.2	58.1	58.1	58.3	58.2	58.3	58.2	58.2	58.6
Vermont .....	12.3	12.4	12.5	12.5	12.6	12.4	12.4	12.3	12.2	12.3	12.2	12.3	12.3
Virginia .....	171.3	170.9	171.6	172.0	173.1	172.3	172.0	172.5	172.7	173.2	174.1	174.2	174.5
Washington .....	133.9	135.6	136.3	136.7	136.9	137.5	137.0	137.3	138.6	138.9	138.9	139.7	139.7
West Virginia .....	38.8	39.2	38.7	38.5	38.6	38.6	38.7	38.8	38.5	39.5	39.4	39.7	39.5
Wisconsin .....	122.5	124.0	124.4	123.8	124.1	123.6	124.1	123.9	124.2	124.3	124.1	123.9	124.6
Wyoming .....	13.9	13.7	13.8	13.9	13.9	14.0	13.9	13.9	13.9	14.0	13.9	14.0	14.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
	Trade												
Alabama .....	429.4	430.3	431.4	432.9	432.2	434.5	435.5	435.9	435.0	434.8	436.5	437.6	438.4
Alaska .....	55.4	55.9	56.4	56.9	56.6	57.2	57.5	57.1	56.9	56.8	56.0	56.0	56.6
Arizona .....	491.3	496.7	497.6	499.0	498.8	500.0	500.4	496.5	499.6	503.1	504.6	504.1	507.2
Arkansas .....	252.7	251.6	251.2	254.4	255.1	256.3	256.5	256.3	256.4	256.2	255.4	256.7	256.8
California .....	3,106.6	3,091.3	3,107.1	3,114.7	3,117.4	3,129.0	3,129.1	3,132.3	3,134.4	3,139.3	3,146.6	3,157.6	3,159.5
Colorado .....	486.5	489.5	490.7	491.9	492.2	496.3	499.7	501.5	503.4	504.6	505.7	506.0	505.8
Connecticut .....	362.3	360.2	359.9	359.0	357.9	358.8	358.4	359.1	360.0	359.2	359.6	362.9	365.0
Delaware .....	86.1	86.7	87.7	87.7	87.2	87.3	86.4	86.9	86.9	88.1	88.5	88.1	88.5
District of Columbia .....	48.8	48.6	48.2	48.7	48.1	48.1	48.3	48.7	48.6	48.9	48.3	48.2	48.2
Florida .....	1,680.9	1,678.4	1,681.8	1,687.8	1,686.9	1,690.5	1,696.4	1,698.6	1,704.4	1,711.4	1,717.0	1,724.3	1,729.2
Georgia .....	932.4	931.9	936.9	936.5	936.8	941.9	937.0	934.0	929.8	935.8	939.4	946.4	946.3
Hawaii .....	134.4	133.8	133.7	133.3	132.5	132.6	131.9	130.6	131.4	132.1	132.4	131.5	131.3
Idaho .....	129.7	129.6	130.1	129.2	130.1	131.1	131.2	130.6	130.5	130.5	130.6	131.4	131.8
Illinois .....	1,336.8	1,339.7	1,335.1	1,337.3	1,340.0	1,343.3	1,344.4	1,338.0	1,337.1	1,339.0	1,339.3	1,344.0	1,346.7
Indiana .....	681.9	676.9	682.5	683.8	684.6	684.7	684.3	687.7	684.9	684.8	684.8	681.7	680.3
Iowa .....	347.7	347.8	348.0	348.5	349.5	350.2	350.0	349.9	349.6	350.1	352.1	351.1	352.4
Kansas .....	314.4	314.7	316.1	316.4	317.3	318.6	318.6	319.8	321.3	321.3	322.2	322.8	323.5
Kentucky .....	416.1	416.2	416.4	415.6	417.4	419.0	417.2	416.7	419.8	418.8	418.2	421.7	423.9
Louisiana .....	436.2	434.7	436.8	436.7	436.0	438.1	437.3	437.6	437.5	436.9	437.2	438.3	441.1
Maine .....	142.4	140.4	139.9	140.8	141.0	140.6	141.2	141.6	142.1	142.6	143.7	144.7	144.3
Maryland .....	539.1	543.2	541.0	541.6	538.9	539.4	539.2	539.5	536.7	536.9	539.4	539.0	540.7
Massachusetts .....	723.6	727.4	729.4	729.2	728.6	732.1	729.1	731.5	732.0	731.1	728.9	730.6	731.2
Michigan .....	1,050.9	1,050.2	1,056.0	1,055.3	1,059.1	1,066.6	1,061.8	1,059.4	1,064.0	1,069.9	1,071.5	1,073.5	1,072.7
Minnesota .....	608.6	605.1	605.5	606.2	604.1	608.0	610.5	615.8	614.0	613.3	615.6	615.9	617.5
Mississippi .....	237.8	238.7	238.6	238.1	239.9	239.6	238.5	240.5	238.1	238.0	239.6	237.6	238.2
Missouri .....	626.4	625.4	626.5	628.4	631.5	632.8	632.7	633.8	633.9	637.0	636.9	636.7	638.2
Montana .....	99.4	98.8	99.4	99.4	99.2	99.7	99.0	98.9	99.4	100.1	99.9	100.4	100.5
Nebraska .....	211.7	214.5	214.2	213.2	214.8	214.3	214.7	214.9	214.8	214.9	215.1	215.9	214.9
Nevada .....	183.1	183.1	184.3	185.9	186.2	186.6	186.7	187.7	187.6	188.9	189.9	190.7	191.7
New Hampshire .....	150.2	149.8	149.3	148.8	149.5	149.7	150.5	150.9	150.6	149.5	151.3	150.1	151.9
New Jersey .....	880.1	879.5	885.9	886.6	884.3	890.7	891.1	891.3	891.4	892.0	894.1	896.4	898.2
New Mexico .....	169.1	168.7	169.2	169.9	169.7	170.8	171.0	171.9	171.9	173.7	173.3	173.7	174.2
New York .....	1,655.5	1,654.3	1,650.1	1,654.3	1,657.3	1,660.4	1,662.6	1,665.4	1,666.3	1,671.8	1,672.8	1,677.5	1,680.6
North Carolina .....	840.5	841.8	846.6	847.2	847.1	845.9	845.9	850.0	849.7	850.8	855.7	858.0	861.4
North Dakota .....	82.0	81.3	81.9	81.5	80.9	80.8	80.6	81.0	80.6	80.8	81.4	80.9	81.2
Ohio .....	1,321.3	1,317.1	1,317.6	1,318.1	1,316.5	1,318.7	1,320.5	1,318.9	1,320.9	1,320.9	1,322.7	1,324.5	1,327.6
Oklahoma .....	327.3	326.4	327.0	327.9	328.3	328.3	327.7	327.5	328.7	330.0	331.6	333.2	333.9
Oregon .....	384.8	383.0	384.5	387.0	386.5	388.1	387.0	388.4	385.2	386.3	389.3	389.7	391.4
Pennsylvania .....	1,228.0	1,216.7	1,221.3	1,224.1	1,227.9	1,230.4	1,229.9	1,237.1	1,236.7	1,236.7	1,235.6	1,232.4	1,231.1
Rhode Island .....	98.6	98.5	99.2	99.0	98.6	99.1	98.8	98.4	98.7	99.1	98.6	99.3	99.7
South Carolina .....	427.6	430.0	431.0	433.2	436.2	437.7	439.8	440.8	441.8	443.2	443.9	449.7	450.7
South Dakota .....	88.1	87.2	87.5	87.3	87.9	89.3	89.5	89.3	89.4	89.9	89.6	89.5	89.7
Tennessee .....	618.4	618.1	619.5	620.1	624.6	621.5	617.6	618.1	617.6	619.4	621.0	622.9	626.7
Texas .....	2,081.5	2,084.5	2,086.0	2,091.1	2,092.0	2,097.2	2,097.4	2,097.5	2,102.2	2,108.1	2,113.1	2,117.4	2,126.4
Utah .....	242.7	242.7	243.9	245.0	244.2	244.6	242.9	243.1	243.3	244.4	244.6	243.3	244.0
Vermont .....	65.3	64.8	65.0	65.4	65.2	65.5	65.9	65.8	65.6	65.9	65.7	66.0	66.1
Virginia .....	734.4	730.9	735.3	737.5	735.4	736.6	739.5	740.6	742.2	741.5	743.5	743.0	743.6
Washington .....	612.8	615.4	618.1	621.3	621.4	625.6	626.6	628.5	631.0	631.9	633.5	635.4	637.0
West Virginia .....	164.5	163.4	163.6	164.7	163.9	163.1	163.3	162.6	162.7	163.9	166.2	165.1	165.7
Wisconsin .....	609.5	608.6	611.7	613.4	613.0	615.3	614.5	616.0	618.9	617.4	618.8	617.8	619.0
Wyoming .....	52.3	52.5	51.9	52.3	52.4	52.3	52.5	52.9	53.0	52.4	52.9	52.9	53.1

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997		1998										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
	Finance, insurance, and real estate												
Alabama .....	85.1	85.1	85.3	85.6	85.8	86.2	86.4	86.5	87.0	86.8	87.4	87.6	88.4
Alaska .....	12.2	12.1	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.6	12.5	12.4	12.4
Arizona .....	130.3	130.5	131.4	132.4	132.9	133.4	134.7	135.1	135.4	135.2	135.8	136.4	137.5
Arkansas .....	44.5	44.3	44.4	44.8	44.8	44.8	44.7	44.5	44.0	44.1	44.1	44.1	44.2
California .....	765.1	765.8	769.9	772.7	776.1	780.0	782.2	786.0	786.3	788.2	789.1	788.3	788.3
Colorado .....	130.0	130.0	130.9	131.2	130.7	131.5	132.5	133.6	134.3	134.0	134.0	133.9	134.4
Connecticut .....	133.6	133.7	133.8	134.7	134.5	135.5	135.6	135.8	135.9	135.6	135.8	136.3	136.6
Delaware .....	48.6	48.4	48.6	48.9	49.5	49.7	49.3	49.4	49.7	49.8	50.0	49.8	50.0
District of Columbia .....	28.4	28.9	28.4	28.5	28.4	28.4	28.5	28.9	28.6	28.9	28.9	28.8	28.8
Florida .....	419.2	418.8	419.9	422.8	424.5	426.3	427.4	427.0	428.4	429.5	431.5	433.0	432.5
Georgia .....	191.7	191.8	192.8	193.8	194.5	195.1	195.3	196.1	197.3	197.2	197.6	198.4	198.4
Hawaii .....	35.7	35.6	35.3	35.3	35.3	35.1	34.9	35.2	35.0	34.9	35.1	34.8	34.6
Idaho .....	25.6	25.7	26.0	26.2	26.5	26.6	26.7	26.9	26.6	26.6	27.0	26.7	26.7
Illinois .....	405.2	406.3	406.5	406.8	407.9	409.2	410.4	412.4	412.3	412.6	413.4	412.8	413.2
Indiana .....	140.4	140.2	140.0	140.2	140.6	140.8	140.6	141.4	142.1	142.5	143.4	143.2	143.3
Iowa .....	80.9	81.3	81.0	81.1	81.3	81.8	81.9	82.0	82.1	82.3	82.7	82.6	82.4
Kansas .....	60.9	60.8	61.1	61.0	61.4	61.2	61.2	61.1	61.3	60.6	60.7	61.0	60.9
Kentucky .....	70.6	70.5	70.7	70.8	71.1	71.2	71.0	71.1	71.1	71.0	71.1	71.1	71.2
Louisiana .....	86.8	86.5	86.6	86.8	86.5	86.6	87.1	86.6	86.6	86.2	86.2	86.4	86.3
Maine .....	29.2	29.4	29.7	30.2	30.2	30.4	30.1	30.6	30.8	30.8	31.2	31.2	31.4
Maryland .....	131.3	131.5	131.8	131.1	131.9	132.3	132.8	132.8	133.1	133.2	133.3	133.9	134.3
Massachusetts .....	215.7	215.9	216.1	216.5	216.3	216.7	217.4	218.0	218.0	218.7	219.2	220.1	221.3
Michigan .....	207.1	207.9	208.9	209.4	209.7	209.0	207.9	207.8	206.9	207.5	207.6	207.9	207.1
Minnesota .....	149.1	149.2	149.8	149.9	150.9	151.3	151.4	152.2	152.8	153.0	153.5	154.3	154.7
Mississippi .....	41.1	41.2	41.5	41.3	41.5	41.5	41.5	41.5	41.7	41.5	42.0	41.9	41.7
Missouri .....	155.5	155.8	156.0	156.7	156.8	157.7	158.2	159.7	159.8	159.6	159.9	160.5	160.8
Montana .....	16.6	16.7	16.8	16.7	16.9	16.8	16.6	16.8	16.9	16.8	17.0	17.0	17.1
Nebraska .....	55.9	55.8	56.4	56.5	56.9	57.1	57.5	57.8	57.5	57.7	57.9	58.3	58.2
Nevada .....	41.2	41.4	41.5	41.7	41.8	42.2	42.6	42.9	42.9	43.4	43.6	44.0	44.0
New Hampshire .....	29.2	29.3	29.3	29.4	29.8	29.5	29.2	29.3	29.6	30.2	29.7	30.0	30.1
New Jersey .....	242.2	243.3	244.1	244.0	244.6	244.2	244.0	244.9	244.9	244.4	245.5	246.2	247.4
New Mexico .....	31.4	31.5	31.5	31.6	31.5	31.5	31.6	31.7	31.8	31.9	31.9	32.1	32.2
New York .....	722.1	721.3	724.1	725.8	726.3	727.6	728.7	730.3	731.8	732.4	733.1	733.9	736.1
North Carolina .....	169.3	170.6	172.5	173.4	173.0	174.2	174.8	175.6	177.4	178.5	178.6	179.0	179.7
North Dakota .....	15.2	15.3	15.4	15.3	15.4	15.4	15.5	15.7	15.7	15.6	15.7	15.9	15.9
Ohio .....	288.9	290.0	289.8	290.5	291.9	292.1	292.0	292.6	293.2	293.4	294.2	293.9	293.7
Oklahoma .....	70.2	70.3	70.5	70.7	70.9	71.1	71.0	71.3	70.8	71.0	71.3	71.5	71.6
Oregon .....	96.0	96.4	96.0	96.7	96.5	97.0	97.4	97.3	97.4	98.1	97.7	97.2	97.6
Pennsylvania .....	317.6	317.5	318.5	318.5	319.3	320.2	320.6	321.4	321.4	321.5	321.4	321.9	322.3
Rhode Island .....	26.6	26.9	27.0	26.8	27.0	27.2	27.7	27.7	27.9	27.9	28.1	28.3	28.3
South Carolina .....	75.8	76.0	76.6	76.9	77.6	78.1	78.5	79.0	79.1	79.3	79.4	79.9	80.3
South Dakota .....	21.7	21.7	21.6	21.6	21.7	22.0	22.3	22.2	22.5	22.7	22.9	23.2	23.2
Tennessee .....	121.7	123.4	123.5	123.2	122.7	122.8	122.8	122.9	122.9	122.8	122.8	123.2	123.1
Texas .....	471.2	473.5	475.6	477.4	478.5	479.8	481.8	482.8	484.0	484.7	486.0	486.0	488.1
Utah .....	53.9	53.7	53.8	53.7	53.7	53.5	54.1	54.4	54.4	54.4	54.2	54.0	53.9
Vermont .....	12.2	12.2	12.1	12.1	12.2	12.3	12.2	12.3	12.3	12.3	12.2	12.4	12.4
Virginia .....	169.5	170.6	170.7	170.7	170.6	171.1	170.9	172.5	172.5	172.9	173.8	173.7	174.4
Washington .....	131.0	131.5	132.0	132.5	133.7	134.5	134.4	135.6	136.4	136.3	136.5	136.9	137.4
West Virginia .....	28.6	28.4	28.3	28.4	28.4	28.2	28.1	28.5	28.6	28.5	28.9	29.2	29.3
Wisconsin .....	141.9	141.8	142.2	142.3	142.6	143.0	144.2	145.0	145.3	145.2	145.6	146.1	146.3
Wyoming .....	8.2	8.2	8.3	8.3	8.3	8.2	8.2	8.4	8.4	8.5	8.4	8.5	8.4

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997		1998										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
	Services												
Alabama .....	434.3	435.1	435.6	438.0	437.8	438.4	439.6	439.7	440.4	439.1	440.3	441.8	443.9
Alaska .....	66.0	66.5	67.0	67.1	67.4	67.8	67.4	67.9	67.9	67.9	68.3	68.2	68.3
Arizona .....	616.3	617.3	619.9	621.1	624.3	630.9	633.0	632.6	636.1	638.5	639.4	641.6	642.2
Arkansas .....	257.7	257.2	259.6	260.9	263.0	263.2	262.4	260.8	263.2	263.8	263.9	264.8	265.5
California .....	4,142.0	4,154.9	4,168.6	4,180.9	4,198.7	4,217.7	4,226.9	4,241.8	4,256.4	4,268.6	4,280.3	4,304.0	4,305.0
Colorado .....	610.8	609.5	607.4	609.8	609.0	617.0	620.6	620.4	621.0	622.9	623.7	628.9	633.5
Connecticut .....	508.7	506.6	506.9	505.4	509.3	509.0	512.9	511.1	514.7	512.3	515.7	517.9	520.2
Delaware .....	109.9	110.2	110.7	111.0	110.9	111.9	112.2	112.1	112.4	112.7	113.3	114.5	115.0
District of Columbia .....	265.6	266.3	266.0	267.5	265.7	266.2	268.7	269.2	268.1	270.3	271.5	271.8	271.2
Florida .....	2,330.5	2,337.5	2,347.9	2,363.5	2,370.1	2,389.7	2,403.3	2,417.7	2,428.0	2,433.3	2,433.4	2,445.4	2,452.3
Georgia .....	973.2	972.3	981.5	982.8	983.4	983.3	986.9	987.8	992.4	992.4	996.3	1,006.4	1,010.2
Hawaii .....	169.5	168.4	169.1	169.7	170.3	169.5	169.4	168.3	169.6	168.8	169.8	169.8	169.1
Idaho .....	123.9	121.8	121.4	121.5	121.2	121.4	121.7	124.1	125.0	124.3	126.2	126.0	127.0
Illinois .....	1,714.0	1,713.4	1,716.7	1,717.1	1,722.6	1,732.7	1,740.0	1,749.0	1,744.4	1,748.8	1,751.2	1,752.7	1,758.3
Indiana .....	700.7	691.3	692.1	693.1	699.4	702.9	697.5	696.5	697.1	697.1	699.8	702.8	706.2
Iowa .....	369.9	371.6	373.0	373.9	376.6	377.0	378.5	381.5	379.1	378.0	380.7	381.1	383.2
Kansas .....	325.0	324.9	325.8	326.9	329.5	329.1	330.3	331.0	330.2	330.2	330.5	333.6	334.8
Kentucky .....	433.3	432.0	432.3	434.5	437.5	441.5	442.8	442.6	445.4	444.0	444.7	445.7	446.7
Louisiana .....	506.0	507.4	507.7	511.0	511.6	512.6	515.2	515.5	510.2	512.2	511.8	512.4	513.9
Maine .....	160.7	160.6	161.6	162.0	162.4	163.2	163.0	164.3	164.7	165.3	166.3	166.9	167.0
Maryland .....	764.0	763.1	764.5	763.7	762.3	763.4	763.2	769.4	772.5	773.4	780.9	784.7	788.3
Massachusetts .....	1,126.1	1,119.3	1,126.2	1,133.6	1,140.3	1,148.0	1,147.1	1,151.5	1,152.5	1,153.1	1,157.8	1,160.7	1,164.8
Michigan .....	1,243.2	1,244.1	1,243.7	1,246.3	1,247.9	1,259.8	1,260.8	1,260.0	1,268.1	1,270.5	1,278.5	1,278.9	1,280.7
Minnesota .....	710.5	708.1	714.6	716.3	718.2	724.9	729.3	730.3	728.9	730.6	730.6	731.8	732.1
Mississippi .....	261.3	262.7	263.7	263.7	263.8	265.3	264.9	264.6	265.1	262.5	262.7	263.7	262.6
Missouri .....	746.5	746.2	747.0	740.7	742.1	749.0	744.1	745.9	745.2	745.6	747.5	750.0	747.3
Montana .....	106.6	106.1	107.1	107.0	107.1	107.5	107.8	107.5	107.7	107.2	107.1	107.6	108.2
Nebraska .....	233.3	234.3	236.8	235.6	236.1	236.4	236.4	237.4	237.2	235.8	236.8	238.7	240.0
Nevada .....	387.2	386.5	389.6	390.0	392.2	392.3	393.1	394.0	395.5	398.3	406.2	406.2	406.8
New Hampshire .....	165.7	165.2	165.3	164.0	164.2	165.7	167.4	166.7	165.3	164.0	165.4	165.2	166.2
New Jersey .....	1,195.1	1,194.6	1,198.2	1,203.7	1,206.3	1,212.5	1,217.7	1,218.6	1,222.3	1,225.4	1,227.7	1,231.1	1,236.3
New Mexico .....	197.2	196.8	197.7	197.7	197.7	198.5	199.8	199.7	200.9	203.1	203.9	204.8	205.7
New York .....	2,736.5	2,734.3	2,750.1	2,759.4	2,769.0	2,774.6	2,777.9	2,785.2	2,795.6	2,798.6	2,811.1	2,819.9	2,828.2
North Carolina .....	899.5	899.8	904.2	905.4	909.5	916.3	916.7	910.0	908.6	915.9	918.1	920.2	925.4
North Dakota .....	87.8	88.4	89.1	89.0	89.1	89.4	89.1	89.2	89.1	89.2	88.8	88.4	88.3
Ohio .....	1,484.7	1,497.6	1,494.3	1,500.5	1,501.6	1,510.4	1,511.6	1,514.6	1,516.8	1,516.9	1,523.9	1,527.1	1,527.3
Oklahoma .....	383.0	382.9	385.2	386.2	389.7	394.2	393.1	393.0	395.9	396.1	396.9	400.1	401.8
Oregon .....	408.7	412.0	412.9	412.7	414.7	413.9	415.6	417.2	420.1	421.0	421.5	424.9	426.8
Pennsylvania .....	1,732.9	1,739.0	1,733.9	1,732.6	1,733.4	1,733.4	1,738.1	1,741.3	1,742.7	1,750.1	1,751.2	1,755.4	1,754.2
Rhode Island .....	152.1	151.9	151.7	151.6	152.2	152.6	151.4	151.5	151.7	153.1	153.7	153.4	152.7
South Carolina .....	401.4	409.3	410.9	413.0	415.4	416.3	417.9	418.7	421.1	421.3	421.7	424.3	425.8
South Dakota .....	92.5	92.9	94.4	94.5	95.0	95.6	94.4	95.2	95.2	94.5	95.5	95.2	95.4
Tennessee .....	691.1	699.0	698.7	700.4	696.6	700.0	698.7	701.2	703.0	699.8	703.6	706.7	705.3
Texas .....	2,457.1	2,448.9	2,473.4	2,479.6	2,492.8	2,498.8	2,506.9	2,510.4	2,521.7	2,524.7	2,533.1	2,543.7	2,550.1
Utah .....	276.4	277.7	277.1	279.1	278.7	279.5	279.8	277.7	280.1	281.7	283.6	283.4	286.0
Vermont .....	84.7	83.9	84.2	84.4	84.8	85.9	85.9	85.7	86.7	85.7	85.3	85.2	85.7
Virginia .....	999.2	1,004.5	1,007.8	1,014.7	1,018.1	1,024.6	1,028.3	1,034.1	1,035.7	1,034.1	1,033.3	1,038.4	1,045.0
Washington .....	689.4	689.5	695.6	698.8	704.6	709.5	710.2	712.8	716.9	715.0	719.5	721.6	725.7
West Virginia .....	202.5	202.5	203.4	203.7	202.7	203.5	204.4	205.6	205.3	206.6	208.7	208.9	209.7
Wisconsin .....	692.3	693.5	691.0	693.6	696.0	700.9	703.0	702.4	704.8	704.1	704.1	705.8	707.4
Wyoming .....	49.0	48.8	48.5	48.8	48.7	49.6	48.8	49.2	49.4	49.4	49.7	50.2	50.4

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997		1998										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
Government													
Alabama .....	347.3	346.7	346.2	346.3	345.2	344.9	346.3	344.9	346.9	350.1	349.7	350.3	352.2
Alaska .....	73.5	73.1	73.3	73.2	73.6	73.4	73.1	73.6	72.7	73.1	73.6	73.8	74.0
Arizona .....	327.5	325.4	329.5	332.6	332.3	333.5	341.2	333.9	335.5	346.3	341.2	347.9	344.4
Arkansas .....	183.9	183.7	184.0	184.7	185.3	185.1	185.5	189.9	190.9	186.4	187.3	188.0	186.4
California .....	2,160.5	2,157.5	2,161.0	2,170.2	2,175.6	2,180.2	2,186.0	2,173.3	2,186.2	2,191.8	2,203.3	2,212.7	2,214.2
Colorado .....	317.0	318.2	317.8	318.0	318.3	320.7	318.9	323.3	319.9	323.0	322.9	323.8	323.6
Connecticut .....	226.3	225.8	227.0	226.8	226.2	225.3	226.0	225.0	225.5	226.3	226.1	225.4	226.8
Delaware .....	53.8	53.9	53.8	53.7	54.1	54.8	54.6	55.2	54.4	54.8	54.3	54.3	54.9
District of Columbia .....	228.6	230.0	227.9	227.2	228.8	229.1	226.7	219.5	228.1	226.0	225.0	224.8	224.4
Florida .....	950.5	956.9	953.2	951.3	949.1	954.2	954.6	962.6	956.2	961.6	968.4	973.9	966.3
Georgia .....	582.9	584.0	586.2	587.1	588.0	590.8	588.9	590.0	595.3	602.1	594.8	594.2	596.3
Hawaii .....	111.6	111.3	110.8	111.3	111.4	112.0	111.1	111.1	112.9	117.5	113.1	112.4	112.0
Idaho .....	99.4	101.1	101.4	102.1	102.1	101.4	101.5	102.4	102.8	102.6	103.5	103.2	103.5
Illinois .....	804.1	803.8	801.2	803.4	804.1	802.4	806.8	813.2	813.5	806.5	809.1	808.2	821.2
Indiana .....	390.4	395.2	391.0	389.9	391.4	396.1	395.8	379.7	386.8	394.8	389.4	386.7	395.1
Iowa .....	234.6	236.8	237.8	237.5	238.6	238.0	237.4	239.5	238.2	240.1	239.6	237.6	240.0
Kansas .....	237.8	239.4	239.0	239.7	236.8	241.2	239.3	240.5	234.7	240.7	241.3	240.5	240.0
Kentucky .....	291.1	294.1	292.5	294.3	293.1	291.1	294.1	293.4	295.9	296.0	295.5	294.3	294.9
Louisiana .....	365.2	365.4	367.7	367.0	367.4	367.9	369.3	365.5	365.8	369.7	370.6	369.5	368.2
Maine .....	93.0	91.6	93.0	92.5	92.1	91.4	92.6	92.3	92.4	92.5	92.1	91.8	92.3
Maryland .....	414.8	420.4	420.4	419.8	420.3	419.5	422.4	421.9	423.6	435.5	434.1	434.8	434.7
Massachusetts .....	409.0	408.5	409.3	407.7	408.8	409.8	411.8	407.7	408.7	412.4	412.8	413.6	414.6
Michigan .....	650.0	654.7	655.1	652.3	655.5	655.5	665.3	661.3	657.3	662.1	657.4	657.3	654.6
Minnesota .....	379.9	379.7	381.1	382.6	380.2	380.9	382.0	380.4	385.8	386.2	387.0	383.5	382.7
Mississippi .....	220.3	220.2	221.7	220.7	221.3	222.2	223.1	227.9	225.4	225.1	226.7	226.5	227.5
Missouri .....	416.4	416.4	418.3	415.3	416.5	419.1	427.9	419.1	419.1	423.7	424.3	423.5	427.3
Montana .....	77.9	77.0	77.0	77.6	77.8	79.0	76.3	78.9	77.7	78.2	78.3	79.1	79.8
Nebraska .....	154.0	152.8	153.6	152.7	153.3	152.0	151.2	152.2	150.4	153.2	153.3	152.2	152.4
Nevada .....	109.2	108.4	109.5	109.3	110.5	109.5	111.6	112.4	113.7	114.6	113.9	113.6	114.0
New Hampshire .....	75.6	77.8	78.4	77.9	79.5	79.1	78.7	80.9	78.0	79.2	79.2	78.9	76.8
New Jersey .....	570.5	570.0	569.6	568.4	566.6	567.2	565.9	561.8	564.8	570.9	570.5	569.5	571.2
New Mexico .....	178.6	178.7	178.3	179.1	177.6	177.4	179.4	180.1	180.5	177.5	177.9	178.4	178.6
New York .....	1,373.3	1,368.3	1,370.6	1,371.4	1,368.0	1,372.8	1,369.6	1,361.2	1,361.4	1,369.5	1,373.1	1,370.0	1,371.5
North Carolina .....	589.0	587.5	593.0	592.3	594.5	595.2	590.7	584.7	631.5	601.0	602.3	601.5	603.7
North Dakota .....	70.5	70.9	71.1	70.9	70.9	70.7	72.4	71.8	70.0	71.3	70.5	70.9	71.2
Ohio .....	760.9	763.4	760.6	761.7	762.7	766.3	765.0	773.0	768.0	773.5	769.8	768.8	769.3
Oklahoma .....	277.3	277.6	278.7	280.4	280.1	282.0	279.3	278.1	281.4	285.9	283.1	284.0	283.6
Oregon .....	253.9	254.7	255.6	256.3	256.3	257.7	258.2	255.7	257.6	259.9	261.2	260.6	262.6
Pennsylvania .....	713.8	717.8	712.2	711.2	712.6	712.4	697.2	704.0	699.9	728.3	721.1	723.5	723.8
Rhode Island .....	64.8	65.1	65.3	64.7	65.8	66.2	65.8	65.1	64.2	63.9	63.6	63.8	63.9
South Carolina .....	300.0	303.4	303.7	304.2	304.1	303.9	314.9	298.8	303.3	304.5	305.4	305.7	305.4
South Dakota .....	70.1	69.9	69.8	70.7	70.5	70.7	70.1	70.3	70.0	70.2	69.9	71.0	70.1
Tennessee .....	383.6	385.6	385.6	385.4	385.1	385.0	394.5	389.8	385.8	397.4	400.7	401.8	401.7
Texas .....	1,496.7	1,490.8	1,495.1	1,502.0	1,507.7	1,507.2	1,500.3	1,505.5	1,507.0	1,524.6	1,525.9	1,530.1	1,527.4
Utah .....	174.8	175.0	175.7	177.5	178.2	178.1	178.1	177.9	177.7	179.5	179.7	179.4	180.4
Vermont .....	45.7	45.4	45.6	45.4	45.4	44.8	45.5	44.5	45.3	45.5	45.7	45.7	45.9
Virginia .....	598.5	595.7	596.7	597.2	597.8	597.9	599.7	600.2	600.8	604.5	603.9	602.7	605.0
Washington .....	460.3	456.3	457.5	457.0	459.5	457.7	460.3	465.5	467.7	460.1	462.4	460.4	464.8
West Virginia .....	140.8	139.3	140.2	139.9	139.8	150.8	138.5	137.7	141.8	142.6	141.4	141.1	141.5
Wisconsin .....	388.7	390.0	391.3	390.0	392.5	391.8	391.1	392.5	394.0	393.1	391.7	392.9	392.9
Wyoming .....	57.1	56.9	57.0	57.3	57.5	57.8	57.4	59.5	59.7	57.9	57.1	57.6	57.5

<sup>1</sup> Includes mining, not shown separately.  
<sup>2</sup> Mining is combined with construction.  
<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**B-8. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
<b>Total private</b> .....	34.8	34.7	34.6	34.5	34.7	34.6	34.6	34.6	34.4	34.6	34.5	34.6	34.5
<b>Goods-producing</b> .....	41.6	41.4	41.0	40.8	41.1	41.0	41.1	41.1	40.8	41.1	41.0	41.2	41.0
<b>Mining</b> .....	45.4	44.4	43.8	44.1	44.6	43.8	44.8	43.8	43.2	43.8	43.5	43.3	42.8
<b>Construction</b> .....	39.8	39.2	38.5	38.7	38.6	38.4	39.2	39.1	38.4	39.1	38.8	39.5	39.6
<b>Manufacturing</b> .....	42.1	42.0	41.8	41.4	41.8	41.8	41.7	41.7	41.6	41.7	41.7	41.7	41.5
<i>Overtime hours</i> .....	4.9	4.8	4.8	4.5	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5
<b>Durable goods</b> .....	42.8	42.8	42.5	41.9	42.4	42.3	42.2	42.3	42.2	42.3	42.3	42.3	42.1
<i>Overtime hours</i> .....	5.2	5.1	5.0	4.6	4.8	4.8	4.8	4.8	4.7	4.6	4.6	4.5	4.6
Lumber and wood products .....	41.2	41.1	41.2	41.2	41.2	41.3	41.2	41.2	40.6	41.1	41.2	41.6	41.6
Furniture and fixtures .....	41.0	41.0	40.7	40.7	40.7	41.0	40.7	40.7	40.1	40.4	40.1	40.3	40.6
Stone, clay, and glass products .....	43.7	43.6	43.2	43.3	43.5	43.2	43.5	43.6	43.3	43.4	43.5	43.8	44.0
Primary metal industries .....	45.2	44.8	44.6	43.9	44.5	44.4	43.6	44.1	43.7	43.7	43.9	43.8	43.7
Blast furnaces and basic steel products .....	46.0	45.4	45.3	44.9	45.6	45.1	43.8	44.5	44.2	43.9	43.7	43.7	44.0
Fabricated metal products .....	42.7	42.7	42.4	41.8	42.6	42.5	42.4	42.3	42.3	42.3	42.1	42.2	41.9
Industrial machinery and equipment .....	43.6	43.4	43.3	42.6	43.0	43.2	43.0	43.1	42.7	42.7	42.4	42.1	41.9
Electronic and other electrical equipment .....	41.8	41.9	41.4	41.1	41.4	41.4	41.3	41.7	41.5	41.5	41.4	41.0	41.0
Transportation equipment .....	43.9	43.8	43.4	42.1	43.3	42.7	42.6	42.6	43.7	43.7	44.1	44.7	43.7
Motor vehicles and equipment .....	43.9	43.8	43.5	42.0	43.3	42.4	41.7	42.3	44.3	43.8	44.7	45.4	44.8
Instruments and related products .....	41.9	42.0	41.5	41.3	41.4	41.3	41.3	41.4	41.0	41.1	41.0	41.0	41.0
Miscellaneous manufacturing .....	40.4	40.4	40.5	40.1	40.0	40.0	40.0	40.1	39.6	39.7	39.3	39.4	39.1
<b>Nondurable goods</b> .....	41.1	40.9	40.8	40.7	41.0	40.9	41.0	40.9	40.8	40.9	40.8	40.9	40.7
<i>Overtime hours</i> .....	4.4	4.4	4.4	4.2	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.3	4.4
Food and kindred products .....	41.8	41.5	41.5	41.3	41.8	41.7	42.0	41.5	41.7	41.5	41.7	42.0	41.9
Tobacco products .....	38.3	38.5	37.7	38.2	39.3	39.0	40.6	39.6	37.7	38.5	38.3	36.3	35.4
Textile mill products .....	41.8	41.5	41.2	41.0	41.3	41.1	41.0	41.0	40.4	41.1	40.7	41.0	40.9
Apparel and other textile products .....	37.4	37.4	37.2	37.7	37.4	37.4	37.4	37.5	37.3	37.3	37.3	37.3	36.7
Paper and allied products .....	43.6	43.4	43.4	43.0	43.5	43.6	43.5	43.3	43.6	43.5	43.5	43.3	43.6
Printing and publishing .....	38.5	38.5	38.4	38.2	38.4	38.2	38.4	38.5	38.1	38.2	38.2	38.1	38.3
Chemicals and allied products .....	43.5	43.4	43.4	43.1	43.1	43.2	43.0	43.3	43.2	43.3	43.0	42.6	42.7
Petroleum and coal products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products .....	42.0	41.8	41.5	41.7	42.1	42.0	42.1	41.6	41.7	41.8	41.6	41.7	41.3
Leather and leather products .....	38.3	38.8	37.9	37.3	37.3	37.6	37.0	38.1	37.4	37.4	37.6	37.5	37.2
<b>Service-producing</b> .....	33.0	33.0	32.8	32.9	33.0	32.9	32.9	32.9	32.8	32.9	32.9	32.8	32.8
<b>Transportation and public utilities</b> .....	40.0	39.9	39.8	39.6	39.8	39.5	39.6	39.3	39.3	39.3	39.3	39.1	39.5
<b>Wholesale trade</b> .....	38.5	38.5	38.3	38.3	38.5	38.2	38.3	38.4	38.2	38.3	38.5	38.4	38.4
<b>Retail trade</b> .....	29.0	29.0	28.9	29.0	29.1	29.0	29.1	29.0	29.0	29.1	29.0	28.9	28.9
<b>Finance, insurance, and real estate</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Services</b> .....	32.8	32.7	32.6	32.6	32.7	32.7	32.7	32.7	32.5	32.7	32.6	32.7	32.6

<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, which are small relative to the trend-cycle and irregular

components, cannot be separated with sufficient precision.

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(1982=100)

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
<b>Total private</b> .....	144.6	144.4	143.8	144.0	144.9	144.8	145.2	145.3	144.9	145.8	145.7	146.2	146.2
<b>Goods-producing</b> .....	117.1	116.4	115.1	114.9	115.3	114.9	114.2	114.7	114.1	114.6	114.1	115.3	114.7
<b>Mining</b> .....	58.3	57.0	55.6	55.4	56.0	54.7	55.5	54.0	53.1	53.5	52.6	52.1	50.1
<b>Construction</b> .....	165.0	162.4	158.7	161.5	160.5	160.5	164.6	164.3	160.9	164.8	164.4	171.0	170.6
<b>Manufacturing</b> .....	110.6	110.3	109.7	108.7	109.4	109.0	107.2	108.0	108.0	107.8	107.3	107.4	106.8
<b>Durable goods</b> .....	114.6	114.5	113.7	112.2	113.1	112.7	109.9	111.8	111.7	111.6	110.9	111.0	110.3
Lumber and wood products .....	143.8	143.4	143.6	143.8	143.8	143.7	144.0	143.8	141.9	143.9	144.6	146.9	148.5
Furniture and fixtures .....	132.8	133.1	132.7	133.7	134.0	134.4	134.3	133.7	131.4	132.4	131.4	133.3	134.3
Stone, clay, and glass products .....	116.5	116.2	113.9	114.1	114.7	114.4	115.2	116.0	115.4	115.7	116.8	118.1	118.1
Primary metal industries .....	96.6	95.8	95.5	93.7	94.6	94.4	91.1	93.3	92.3	91.6	90.9	90.7	89.9
Blast furnaces and basic steel products .....	75.6	74.6	74.4	73.4	74.5	73.7	71.2	71.9	71.0	70.1	68.6	69.0	69.1
Fabricated metal products .....	119.8	120.1	119.1	117.5	119.2	118.4	117.0	117.5	117.7	117.5	116.6	116.7	116.3
Industrial machinery and equipment .....	111.7	111.3	111.1	109.1	110.1	110.9	109.8	110.0	108.7	108.4	106.9	105.7	104.2
Electronic and other electrical equipment .....	112.8	112.8	111.3	110.1	110.7	110.3	108.7	109.1	108.9	108.0	106.6	105.3	105.3
Transportation equipment .....	130.0	130.1	128.7	124.6	127.0	124.7	112.2	122.8	126.5	127.1	126.9	128.3	125.4
Motor vehicles and equipment .....	166.8	166.6	164.6	158.9	161.8	157.2	129.0	153.5	161.9	161.1	162.2	164.6	162.4
Instruments and related products .....	77.4	77.6	76.8	76.6	76.6	76.1	76.1	75.9	75.2	75.0	74.5	74.3	74.3
Miscellaneous manufacturing .....	103.8	103.8	104.1	103.4	102.0	101.6	102.0	101.5	100.3	98.6	96.9	97.5	96.4
<b>Nondurable goods</b> .....	105.2	104.6	104.3	104.0	104.4	104.0	103.5	102.8	103.0	102.6	102.3	102.4	102.1
Food and kindred products .....	119.2	118.5	118.5	118.3	119.9	119.3	118.9	116.8	118.9	118.2	119.5	120.8	121.1
Tobacco products .....	60.7	61.0	59.7	62.5	62.3	59.9	60.3	58.8	57.9	59.1	58.8	53.9	54.3
Textile mill products .....	89.6	88.6	87.8	87.4	87.7	86.9	85.7	85.0	84.3	85.2	83.4	83.5	83.1
Apparel and other textile products .....	71.6	70.8	70.2	70.0	68.8	68.5	68.3	67.5	67.0	65.2	64.3	64.2	62.2
Paper and allied products .....	111.6	111.1	111.1	109.9	110.7	110.5	109.4	109.1	109.9	109.2	108.6	107.9	108.4
Printing and publishing .....	126.3	126.0	125.3	124.7	125.6	125.0	125.4	125.4	124.1	124.5	123.9	123.1	124.2
Chemicals and allied products .....	103.1	103.2	103.4	102.7	102.8	103.1	102.6	102.8	102.7	102.8	102.1	101.3	101.7
Petroleum and coal products .....	75.0	71.9	73.6	73.1	73.9	73.1	75.5	73.8	73.9	73.6	74.1	77.3	71.6
Rubber and misc. plastics products .....	148.4	147.9	147.2	148.1	148.9	148.4	147.0	146.6	147.3	147.1	146.8	147.5	147.0
Leather and leather products .....	38.3	38.7	37.3	36.7	36.1	35.8	34.7	35.1	33.9	33.9	34.1	33.4	32.6
<b>Service-producing</b> .....	156.9	157.0	156.7	157.0	158.2	158.2	159.1	159.0	158.7	159.7	159.9	160.1	160.3
<b>Transportation and public utilities</b> .....	131.5	131.1	130.9	130.2	131.5	130.5	131.4	131.2	131.2	131.6	131.8	131.6	133.6
<b>Wholesale trade</b> .....	128.0	128.2	127.6	127.9	128.8	127.9	128.6	129.0	128.7	129.1	130.0	129.8	130.2
<b>Retail trade</b> .....	139.8	139.9	139.3	139.8	141.1	140.7	141.9	141.3	141.5	142.0	141.9	141.6	141.7
<b>Finance, insurance, and real estate</b> .....	132.5	133.4	133.6	134.2	134.9	134.8	136.1	136.2	135.6	136.6	137.4	136.9	137.2
<b>Services</b> .....	192.1	192.0	191.9	192.3	193.7	194.5	195.2	195.2	194.6	196.4	196.3	197.3	196.9

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

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

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Nov. 1998 <sup>r</sup>	Dec. 1998 <sup>r</sup>	Jan. 1999 <sup>P</sup>	Jan. 1998 to Jan. 1999 <sup>P</sup>	Nov. 1998 to Dec. 1998 <sup>r</sup>	Dec. 1998 To Jan. 1999 <sup>P</sup>
Total .....	232,128	233,439	233,176	1.3	0.6	-0.1
Private sector .....	194,806	195,314	195,633	1.6	.3	.2
Mining .....	1,268	1,247	1,228	-12.4	-1.7	-1.6
Construction .....	12,208	12,632	12,695	4.3	3.5	.5
Manufacturing .....	40,264	40,266	40,110	-2.4	.0	-.4
Durable goods .....	24,160	24,150	24,036	-2.7	.0	-.5
Nondurable goods .....	16,104	16,116	16,074	-2.1	.1	-.3
Transportation and public utilities .....	13,553	13,540	13,694	1.8	-.1	1.1
Wholesale trade .....	13,768	13,746	13,802	2.0	-.2	.4
Retail trade .....	34,189	34,130	34,175	1.7	-.2	.1
Finance, insurance, and real estate .....	14,108	14,059	14,128	3.6	-.3	.5
Services .....	65,447	65,693	65,801	3.4	.4	.2
Government .....	37,321	38,126	37,543	.0	2.2	-1.5

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

SOURCE: Office of Productivity and Technology (202—606-5606). Historical data for this series also are available on the Internet at the following address:

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

**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

**B-11. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry, seasonally adjusted**

Industry	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>	Jan. <sup>P</sup>
Average hourly earnings													
<b>Total private</b> (in current dollars) .....	\$12.54	\$12.59	\$12.63	\$12.70	\$12.73	\$12.76	\$12.79	\$12.85	\$12.87	\$12.90	\$12.94	\$12.98	\$13.04
<b>Goods-producing</b> .....	14.16	14.21	14.25	14.25	14.27	14.28	14.31	14.39	14.39	14.43	14.46	14.49	14.52
<b>Mining</b> .....	16.47	16.76	16.82	16.72	16.77	16.73	16.88	17.10	17.15	17.20	17.37	17.30	17.16
<b>Construction</b> .....	16.27	16.34	16.40	16.45	16.46	16.51	16.64	16.67	16.57	16.69	16.75	16.83	16.75
<b>Manufacturing</b> .....	13.38	13.42	13.46	13.44	13.47	13.47	13.42	13.52	13.57	13.57	13.58	13.57	13.64
<b>Excluding overtime<sup>2</sup></b> .....	12.66	12.69	12.73	12.76	12.78	12.76	12.71	12.81	12.90	12.88	12.89	12.89	12.93
<b>Service-producing</b> .....	12.00	12.06	12.10	12.19	12.23	12.26	12.30	12.35	12.38	12.41	12.45	12.49	12.57
<b>Transportation and public utilities</b> .....	15.21	15.25	15.27	15.32	15.31	15.29	15.33	15.35	15.42	15.42	15.45	15.52	15.53
<b>Wholesale trade</b> .....	13.75	13.81	13.84	13.88	14.00	13.98	14.07	14.16	14.14	14.19	14.23	14.26	14.35
<b>Retail trade</b> .....	8.56	8.59	8.64	8.70	8.72	8.73	8.78	8.83	8.86	8.85	8.85	8.91	8.97
<b>Finance, insurance, and real estate</b> .....	13.72	13.83	13.85	14.00	14.03	14.07	14.10	14.16	14.17	14.24	14.35	14.43	14.48
<b>Services</b> .....	12.54	12.60	12.65	12.76	12.81	12.87	12.90	12.95	12.99	13.03	13.06	13.09	13.18
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	7.66	7.69	7.72	7.74	7.73	7.75	7.75	7.78	7.79	7.79	7.80	7.81	(4)
<b>Goods-producing</b> .....	8.64	8.68	8.70	8.68	8.67	8.67	8.67	8.72	8.71	8.71	8.72	8.72	(4)
<b>Service-producing</b> .....	7.33	7.36	7.39	7.43	7.43	7.44	7.45	7.48	7.49	7.49	7.50	7.52	(4)
Average weekly earnings													
<b>Total private</b> (in current dollars) .....	436.39	436.87	437.00	438.15	441.73	441.50	442.53	444.61	442.73	446.34	446.43	449.11	449.88
<b>Goods-producing</b> .....	589.06	588.29	584.25	581.40	586.50	585.48	588.14	591.43	587.11	593.07	592.86	596.99	595.32
<b>Mining</b> .....	747.74	744.14	736.72	737.35	747.94	732.77	756.22	748.98	740.88	753.36	755.60	749.09	734.45
<b>Construction</b> .....	647.55	640.53	631.40	636.62	635.36	633.98	652.29	651.80	636.29	652.58	649.90	664.79	663.30
<b>Manufacturing</b> .....	563.30	563.64	562.63	556.42	563.05	563.05	559.61	563.78	564.51	565.87	566.29	565.87	566.06
<b>Service-producing</b> .....	396.00	397.98	396.88	401.05	403.59	403.35	404.67	406.32	406.06	408.29	409.61	409.67	412.30
<b>Transportation and public utilities</b> .....	608.40	608.48	607.75	606.67	609.34	603.96	607.07	603.26	606.01	606.01	607.19	606.83	613.44
<b>Wholesale trade</b> .....	529.38	531.69	530.07	531.60	539.00	534.04	538.88	543.74	540.15	543.48	547.86	547.58	551.04
<b>Retail trade</b> .....	248.24	249.11	249.70	252.30	253.75	253.17	255.50	256.07	256.94	257.54	256.65	257.50	259.23
<b>Finance, insurance, and real estate</b> .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>Services</b> .....	411.31	412.02	412.39	415.98	418.89	420.85	421.83	423.47	422.18	426.08	425.76	428.04	429.67
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	266.42	266.71	266.95	267.00	268.37	268.06	268.20	269.30	268.00	269.37	269.10	270.22	(4)
<b>Goods-producing</b> .....	359.62	359.15	356.90	354.30	356.32	355.48	356.45	358.23	355.39	357.92	357.36	359.20	(4)
<b>Service-producing</b> .....	241.76	242.97	242.44	244.39	245.19	244.90	245.25	246.11	245.80	246.40	246.90	246.49	(4)

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

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

<sup>4</sup> Not available.

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

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Total</b> .....		125,123	122,577	127,840	127,916	125,187	-	-	-	-	-
<b>Total private</b> .....		105,077	102,963	107,384	107,529	105,219	86,161	84,064	87,928	88,021	85,725
<b>Mining</b> .....		591	580	562	555	535	447	438	427	420	400
Metal mining .....	10	51.8	51.1	49.9	49.9	49.6	39.4	38.9	37.7	37.9	-
Iron ores .....	101	8.4	8.4	8.2	8.2	-	6.9	6.9	6.8	6.8	-
Copper ores .....	102	16.0	15.9	14.5	14.6	-	12.0	11.9	10.8	10.9	-
Coal mining .....	12	93.9	93.4	89.8	88.7	87.7	77.0	76.4	74.0	72.9	-
Bituminous coal and lignite mining .....	122	88.5	87.8	84.0	83.0	-	72.4	71.6	69.0	67.9	-
Oil and gas extraction .....	13	339.8	336.2	313.4	309.3	297.8	251.2	249.1	232.5	228.5	-
Crude petroleum and natural gas .....	131	141.0	138.0	131.4	131.5	-	81.5	80.5	79.3	79.6	-
Oil and gas field services .....	138	193.9	193.3	177.6	173.2	-	165.6	164.5	149.1	144.6	-
Nonmetallic minerals, except fuels .....	14	105.1	98.8	109.3	106.6	100.1	79.3	73.6	83.1	80.6	-
Crushed and broken stone .....	142	40.6	38.0	42.5	41.6	-	31.5	29.0	33.0	32.3	-
Sand and gravel .....	144	34.5	31.7	37.0	35.3	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	11.6	11.5	11.4	11.4	-	-	-	-	-	-
<b>Construction</b> .....		5,704	5,407	6,183	6,039	5,672	4,403	4,111	4,805	4,661	4,292
General building contractors .....	15	1,343.5	1,300.3	1,438.4	1,424.0	1,372.5	945.7	900.5	1,008.7	992.8	-
Residential building construction .....	152	696.8	676.0	756.8	747.6	-	472.8	451.2	511.5	501.3	-
Operative builders .....	153	26.6	26.3	28.9	28.9	-	10.7	10.2	11.7	11.4	-
Nonresidential building construction .....	154	620.1	598.0	652.7	647.5	-	462.2	439.1	485.5	480.1	-
Heavy construction, except building .....	16	757.6	677.6	868.2	810.6	713.3	624.2	547.7	732.5	675.9	-
Highway and street construction .....	161	208.4	168.3	263.1	229.2	-	163.4	124.6	217.2	183.3	-
Heavy construction, except highway .....	162	549.2	509.3	605.1	581.4	-	460.8	423.1	515.3	492.6	-
Special trade contractors .....	17	3,602.6	3,429.5	3,876.1	3,804.8	3,586.2	2,833.0	2,662.6	3,063.8	2,991.8	-
Plumbing, heating, and air conditioning .....	171	804.6	789.8	836.6	838.1	-	594.7	579.7	617.6	619.5	-
Painting and paper hanging .....	172	195.6	181.9	210.7	199.6	-	160.6	147.2	174.8	163.9	-
Electrical work .....	173	708.5	697.8	745.6	749.0	-	564.7	552.3	590.8	591.7	-
Masonry, stonework, and plastering .....	174	474.8	454.3	530.9	521.6	-	407.7	387.9	460.0	451.1	-
Carpentry and floor work .....	175	259.9	252.8	280.8	281.1	-	198.6	191.5	212.9	212.9	-
Roofing, siding, and sheet metal work .....	176	238.1	213.1	260.3	251.8	-	186.9	162.8	207.1	198.7	-
<b>Manufacturing</b> .....		18,817	18,705	18,622	18,579	18,428	13,016	12,918	12,813	12,783	12,665
<b>Durable goods</b> .....		11,149	11,104	11,036	11,020	10,936	7,664	7,623	7,548	7,543	7,475
Lumber and wood products .....	24	797.2	784.6	812.7	812.0	806.3	656.7	645.9	668.1	666.8	661.2
Logging .....	241	82.3	77.8	80.1	79.5	-	66.2	61.8	63.5	62.9	-
Sawmills and planing mills .....	242	182.3	180.5	179.7	179.8	-	158.9	157.0	156.5	156.6	-
Sawmills and planing mills, general .....	2421	143.9	142.3	139.5	139.8	-	125.0	123.3	121.1	121.4	-
Hardwood dimension and flooring mills .....	2426	36.4	36.3	37.7	37.6	-	32.2	32.1	33.4	33.3	-
Millwork, plywood, and structural members .....	243	296.5	293.0	312.4	312.6	-	237.7	235.5	251.4	251.2	-
Millwork .....	2431	117.9	115.8	122.9	123.2	-	90.3	89.7	95.7	95.8	-
Wood kitchen cabinets .....	2434	83.0	81.9	89.0	89.0	-	67.4	66.2	72.1	71.9	-
Hardwood veneer and plywood .....	2435	28.6	28.6	29.0	29.2	-	24.3	24.2	24.6	24.8	-
Softwood veneer and plywood .....	2436	28.6	28.4	29.0	28.8	-	26.2	26.1	26.2	25.9	-
Wood containers .....	244	54.0	53.2	52.0	52.0	-	46.3	45.6	44.6	44.6	-
Wood buildings and mobile homes .....	245	92.5	91.5	98.0	98.2	-	74.1	73.3	78.4	78.4	-
Mobile homes .....	2451	70.1	69.4	75.2	75.6	-	58.6	58.3	63.0	63.2	-
Miscellaneous wood products .....	249	89.6	88.6	90.5	89.9	-	73.5	72.7	73.7	73.1	-
Furniture and fixtures .....	25	517.8	517.7	526.6	530.3	528.3	412.2	412.2	418.9	423.2	421.4
Household furniture .....	251	280.0	280.6	282.2	284.7	-	236.6	237.4	238.8	241.6	-
Wood household furniture .....	2511	124.4	124.5	126.8	127.6	-	108.0	107.9	110.0	110.8	-
Upholstered household furniture .....	2512	88.8	88.4	89.9	90.4	-	74.9	74.9	76.3	77.0	-
Metal household furniture .....	2514	20.8	21.4	18.5	19.6	-	17.4	18.0	15.3	16.4	-
Mattresses and bedsprings .....	2515	34.9	35.2	34.9	35.3	-	27.1	27.4	26.9	27.4	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Durable goods—Continued</b>											
Furniture and fixtures—Continued											
Office furniture .....	252	65.1	65.1	65.6	65.8	—	48.3	48.3	47.7	47.9	—
Public building and related furniture .....	253	43.9	44.4	46.3	46.7	—	34.5	34.7	36.1	36.4	—
Partitions and fixtures .....	254	88.6	87.7	90.6	91.0	—	66.2	65.5	68.0	68.7	—
Miscellaneous furniture and fixtures .....	259	40.2	39.9	41.9	42.1	—	26.6	26.3	28.3	28.6	—
Stone, clay, and glass products .....	32	550.0	541.1	570.9	565.0	546.8	429.4	421.3	447.4	441.7	425.3
Flat glass .....	321	16.8	17.3	16.5	16.6	—	13.6	13.6	13.0	13.2	—
Glass and glassware, pressed or blown .....	322	72.8	72.2	71.2	71.0	—	60.3	59.8	58.7	58.2	—
Glass containers .....	3221	26.0	25.3	25.4	25.6	—	23.2	22.6	22.5	22.6	—
Pressed and blown glass, nec .....	3229	46.8	46.9	45.8	45.4	—	37.1	37.2	36.2	35.6	—
Products of purchased glass .....	323	63.4	62.6	64.8	63.5	—	49.9	48.9	50.0	48.7	—
Cement, hydraulic .....	324	17.2	17.3	17.5	17.6	—	13.1	13.1	13.1	13.1	—
Structural clay products .....	325	33.4	32.5	33.1	32.9	—	26.0	25.3	25.4	25.2	—
Pottery and related products .....	326	38.6	38.8	38.1	38.2	—	30.4	30.4	29.9	30.1	—
Concrete, gypsum, and plaster products .....	327	213.9	203.1	230.1	225.7	—	164.1	154.7	179.1	175.3	—
Concrete block and brick .....	3271	17.8	17.3	18.6	18.5	—	11.4	11.0	12.0	11.9	—
Concrete products, nec .....	3272	72.9	70.4	78.1	77.3	—	55.7	53.6	60.5	59.8	—
Ready-mixed concrete .....	3273	105.2	97.6	115.4	111.8	—	82.8	75.9	92.4	89.3	—
Misc. nonmetallic mineral products .....	329	79.0	78.7	80.1	79.8	—	60.8	60.8	62.7	62.2	—
Abrasive products .....	3291	20.3	20.3	20.1	20.0	—	16.1	16.3	15.8	15.7	—
Asbestos products .....	3292	2.5	2.5	2.5	2.4	—	2.1	2.1	2.1	2.0	—
Mineral wool .....	3296	24.3	24.1	24.7	24.7	—	—	—	—	—	—
Primary metal industries .....	33	720.1	720.2	701.1	701.5	697.6	564.5	565.7	548.2	548.8	545.1
Blast furnaces and basic steel products .....	331	236.2	236.0	226.9	227.7	226.1	182.4	182.4	175.1	176.2	174.4
Blast furnaces and steel mills .....	3312	163.1	162.9	156.3	157.0	—	127.2	127.2	121.8	122.7	—
Steel pipe and tubes .....	3317	28.7	28.8	28.2	28.4	—	21.6	21.8	21.3	21.6	—
Iron and steel foundries .....	332	133.5	133.8	130.3	129.3	—	109.8	109.9	106.7	105.7	—
Gray and ductile iron foundries .....	3321	81.7	81.9	79.2	78.9	—	67.9	67.8	65.6	65.2	—
Malleable iron foundries .....	3322	4.7	4.7	4.6	4.5	—	3.7	3.7	3.4	3.4	—
Steel foundries, nec .....	3325	28.0	28.2	28.6	28.4	—	22.9	23.1	23.4	23.2	—
Primary nonferrous metals .....	333	39.4	39.5	37.6	37.5	—	30.4	30.6	29.0	29.2	—
Primary aluminum .....	3334	22.2	22.4	21.7	21.7	—	17.9	18.1	17.5	17.6	—
Nonferrous rolling and drawing .....	335	169.3	169.5	167.7	167.5	—	130.1	130.5	128.4	128.2	—
Copper rolling and drawing .....	3351	22.6	22.4	22.1	22.2	—	18.0	18.0	18.0	18.1	—
Aluminum sheet, plate, and foil .....	3353	21.0	21.4	19.8	20.0	—	15.7	16.1	14.6	14.8	—
Nonferrous wire drawing and insulating .....	3357	72.5	72.8	72.6	71.9	—	55.2	55.5	54.6	54.1	—
Nonferrous foundries (castings) .....	336	93.6	93.5	91.1	91.9	—	76.3	76.2	74.1	74.6	—
Aluminum foundries .....	3365	25.9	25.9	26.0	26.2	—	21.3	21.2	21.5	21.6	—
Fabricated metal products .....	34	1,497.8	1,493.5	1,486.0	1,484.8	1,481.7	1,131.3	1,127.3	1,119.5	1,118.4	1,116.4
Metal cans and shipping containers .....	341	37.2	37.2	36.2	36.1	—	31.7	31.5	30.6	30.6	—
Metal cans .....	3411	29.7	29.8	29.2	29.1	—	25.6	25.7	25.2	25.2	—
Cutlery, handtools, and hardware .....	342	126.7	126.5	124.5	124.3	—	97.3	97.7	95.6	95.7	—
Hand and edge tools, and blades and handsaws ...	3423,5	43.3	43.1	42.3	42.2	—	33.3	33.2	32.8	32.7	—
Hardware, nec .....	3429	70.4	70.4	69.1	69.1	—	54.2	54.6	52.8	53.0	—
Plumbing and heating, except electric .....	343	60.3	59.3	60.0	60.4	—	43.2	42.0	42.6	42.9	—
Plumbing fixture fittings and trim .....	3432	24.0	24.0	24.4	24.6	—	17.4	17.4	17.8	17.9	—
Heating equipment, except electric .....	3433	21.8	21.0	21.2	21.3	—	14.8	13.9	13.9	14.0	—
Fabricated structural metal products .....	344	455.7	453.6	459.0	459.4	—	334.1	332.0	336.4	336.4	—
Fabricated structural metal .....	3441	78.8	77.8	81.1	81.3	—	57.7	56.9	59.6	59.6	—
Metal doors, sash, and trim .....	3442	78.7	77.9	80.8	80.6	—	58.0	56.7	60.1	59.5	—
Fabricated plate work (boiler shops) .....	3443	101.8	102.4	97.9	98.5	—	73.7	74.3	70.1	70.8	—
Sheet metal work .....	3444	121.7	122.0	122.9	122.5	—	93.4	93.7	94.4	94.3	—
Architectural metal work .....	3446	31.1	30.9	32.8	33.2	—	22.7	22.7	24.1	24.3	—
Screw machine products, bolts, etc .....	345	107.6	107.6	107.2	107.0	—	84.5	84.5	83.9	83.7	—
Screw machine products .....	3451	56.3	56.5	56.0	56.0	—	45.7	45.9	45.6	45.5	—
Bolts, nuts, rivets, and washers .....	3452	51.3	51.1	51.2	51.0	—	38.8	38.6	38.3	38.2	—
Metal forgings and stampings .....	346	260.6	260.5	259.6	260.4	—	206.9	206.2	204.7	205.3	—
Iron and steel forgings .....	3462	33.0	33.2	33.2	33.0	—	25.4	25.5	25.1	24.9	—
Automotive stampings .....	3465	116.9	116.8	115.7	116.2	—	95.8	95.2	94.7	95.2	—
Metal stampings, nec .....	3469	97.5	97.3	97.3	97.6	—	75.7	75.5	74.6	74.8	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Metal services, nec .....	347	140.9	140.9	138.4	137.1	—	113.8	113.7	111.7	110.4	—
Plating and polishing .....	3471	86.8	86.6	84.6	83.9	—	71.0	70.8	69.1	68.2	—
Metal coating and allied services .....	3479	54.1	54.3	53.8	53.2	—	42.8	42.9	42.6	42.2	—
Ordnance and accessories, nec .....	348	41.8	41.3	39.5	39.3	—	23.4	23.2	23.1	23.2	—
Ammunition, except for small arms, nec .....	3483	22.3	22.1	21.0	20.9	—	10.3	10.1	9.8	9.8	—
Miscellaneous fabricated metal products .....	349	267.0	266.6	261.6	260.8	—	196.4	196.5	190.9	190.2	—
Valves and pipe fittings, nec .....	3494	26.2	25.9	24.6	24.6	—	19.3	19.3	17.6	17.6	—
Misc. fabricated wire products .....	3496	57.1	57.1	56.9	57.1	—	43.0	43.1	43.1	43.2	—
Industrial machinery and equipment .....	35	2,198.5	2,201.1	2,157.3	2,152.8	2,137.0	1,388.0	1,391.4	1,363.1	1,363.5	1,350.5
Engines and turbines .....	351	82.9	83.4	83.2	83.3	—	52.2	52.5	54.4	54.6	—
Turbines and turbine generator sets .....	3511	24.3	24.2	23.3	23.3	—	13.8	13.7	13.0	13.0	—
Internal combustion engines, nec .....	3519	58.6	59.2	59.9	60.0	—	38.4	38.8	41.4	41.6	—
Farm and garden machinery .....	352	105.7	106.8	96.5	96.1	—	77.5	78.3	68.8	68.5	—
Farm machinery and equipment .....	3523	79.1	79.5	72.7	71.6	—	57.6	57.8	51.0	49.9	—
Construction and related machinery .....	353	251.8	252.0	251.1	250.7	—	164.9	164.9	161.9	161.9	—
Construction machinery .....	3531	91.1	91.8	91.3	91.5	—	62.4	63.1	61.7	61.9	—
Mining machinery .....	3532	17.2	17.0	16.7	16.5	—	10.4	10.2	9.9	9.6	—
Oil and gas field machinery .....	3533	11.2	51.1	48.2	47.6	—	34.8	34.8	31.7	31.6	—
Conveyors and conveying equipment .....	3535	41.4	41.2	42.3	42.5	—	23.0	22.7	22.8	22.9	—
Industrial trucks and tractors .....	3537	31.8	31.7	33.0	32.9	—	22.1	21.9	23.1	23.1	—
Metalworking machinery .....	354	352.8	352.8	344.9	344.6	—	252.7	253.2	245.6	246.4	—
Machine tools, metal cutting types .....	3541	42.9	42.7	41.9	41.7	—	27.3	27.2	26.3	26.2	—
Machine tools, metal forming types .....	3542	18.0	18.3	17.7	17.7	—	11.4	11.7	11.1	11.1	—
Special dies, tools, jigs, and fixtures .....	3544	169.9	169.9	166.5	166.6	—	130.4	130.4	126.6	127.0	—
Machine tool accessories .....	3545	53.6	53.9	53.2	53.4	—	38.1	38.6	38.0	38.3	—
Power driven handtools .....	3546	20.6	20.5	19.9	19.9	—	14.3	14.4	14.2	14.4	—
Special industry machinery .....	355	185.1	185.4	177.3	176.4	—	101.4	100.9	97.8	97.1	—
Textile machinery .....	3552	15.1	15.1	14.8	14.9	—	10.0	9.9	9.5	9.5	—
Printing trades machinery .....	3555	23.1	23.1	23.0	23.0	—	13.2	13.1	13.0	12.8	—
Food products machinery .....	3556	25.3	25.2	24.6	24.6	—	14.9	14.8	14.7	14.9	—
General industrial machinery .....	356	266.4	266.4	262.4	262.1	—	170.4	171.0	166.8	166.6	—
Pumps and pumping equipment .....	3561	30.5	30.4	29.9	29.9	—	17.7	17.7	17.3	17.3	—
Ball and roller bearings .....	3562	40.6	40.8	40.7	40.6	—	31.6	31.8	31.4	31.3	—
Air and gas compressors .....	3563	26.4	26.5	26.5	26.5	—	15.3	15.3	14.6	14.7	—
Blowers and fans .....	3564	35.5	35.6	35.6	35.6	—	24.0	24.3	24.8	24.8	—
Speed changers, drives, and gears .....	3566	18.3	18.3	18.2	18.2	—	13.3	13.3	13.3	13.3	—
Power transmission equipment, nec .....	3568	22.3	22.2	21.3	21.1	—	15.6	15.5	15.0	14.9	—
Computer and office equipment .....	357	380.7	380.0	368.8	366.5	361.9	144.4	144.2	144.4	145.3	—
Electronic computers .....	3571	199.6	199.3	190.8	187.8	—	68.6	69.0	71.8	71.7	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	61.2	60.9	62.1	62.1	—	24.1	23.2	23.9	23.4	—
Refrigeration and service machinery .....	358	200.0	200.9	199.8	199.7	—	143.0	144.6	143.3	142.8	—
Refrigeration and heating equipment .....	3585	137.5	138.4	137.1	137.2	—	103.8	105.2	103.5	103.3	—
Misc. industrial and commercial machinery .....	359	373.1	373.4	373.3	373.4	—	281.5	281.8	280.1	280.3	—
Carburetors, pistons, rings, valves .....	3592	22.9	22.8	23.1	23.3	—	18.3	18.4	18.5	18.7	—
Scales, balances, and industrial machinery, nec .....	3596,9	302.5	302.7	301.6	301.6	—	233.4	233.5	231.1	231.1	—
Electronic and other electrical equipment .....	36	1,720.5	1,719.5	1,672.9	1,670.4	1,659.2	1,092.7	1,090.2	1,043.6	1,043.0	1,039.4
Electric distribution equipment .....	361	82.0	83.0	83.2	83.1	—	55.3	56.3	55.2	55.6	—
Transformers, except electronic .....	3612	39.6	39.6	38.7	38.8	—	27.0	27.1	25.4	25.7	—
Switchgear and switchboard apparatus .....	3613	42.4	43.4	44.5	44.3	—	28.3	29.2	29.8	29.9	—
Electrical industrial apparatus .....	362	154.2	154.5	150.6	150.8	—	107.2	107.7	103.9	103.6	—
Motors and generators .....	3621	76.6	76.7	74.7	74.9	—	59.3	59.4	57.1	57.2	—
Relays and industrial controls .....	3625	57.1	57.0	55.3	55.5	—	33.1	33.2	32.2	32.0	—
Household appliances .....	363	115.3	115.4	115.5	115.3	—	91.0	91.3	92.8	92.7	—
Household refrigerators and freezers .....	3632	23.3	23.2	23.5	23.6	—	18.0	18.1	19.0	19.1	—
Household laundry equipment .....	3633	17.4	17.5	18.0	18.1	—	13.8	13.9	15.1	15.3	—
Electric housewares and fans .....	3634	26.3	25.9	25.0	24.4	—	20.0	19.6	18.8	18.0	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment .....	364	183.1	182.2	180.8	179.9	—	131.1	130.4	129.6	129.6	—
Electric lamps .....	3641	22.1	22.0	20.4	20.3	—	17.1	17.1	16.3	16.2	—
Current-carrying wiring devices .....	3643	62.9	63.1	62.0	61.5	—	41.5	41.6	41.1	40.7	—
Noncurrent-carrying wiring devices .....	3644	18.0	17.8	18.6	18.8	—	13.5	13.3	13.9	14.2	—
Residential ing fixtures .....	3645	21.5	21.2	21.2	21.5	—	16.1	16.0	16.1	16.3	—
Household audio and video equipment .....	365	79.5	77.7	78.9	78.8	—	51.6	50.3	50.6	50.4	—
Household audio and video equipment .....	3651	53.8	52.5	53.2	53.1	—	31.8	31.1	31.2	31.0	—
Communications equipment .....	366	278.8	279.1	271.3	271.8	—	133.6	132.9	124.8	124.5	—
Telephone and telegraph apparatus .....	3661	123.1	123.4	123.9	123.4	—	60.0	59.7	55.9	54.0	—
Electronic components and accessories .....	367	677.6	680.0	649.0	647.0	645.9	413.9	414.4	384.6	383.8	—
Electron tubes .....	3671	22.9	22.7	21.7	21.6	—	16.9	16.8	15.9	15.8	—
Semiconductors and related devices .....	3674	291.3	292.9	277.2	275.0	—	134.1	135.2	120.4	119.6	—
Electronic components, nec .....	3679	149.6	149.8	144.2	144.2	—	103.6	103.4	97.8	97.5	—
Misc. electrical equipment and supplies .....	369	150.0	147.6	143.6	143.7	—	109.0	106.9	102.1	102.8	—
Storage batteries .....	3691	26.5	26.2	25.5	25.6	—	20.7	20.4	20.0	20.0	—
Engine electrical equipment .....	3694	66.9	65.6	64.0	63.9	—	52.8	51.4	48.8	48.8	—
Transportation equipment .....	37	1,890.2	1,874.2	1,881.3	1,883.3	1,868.2	1,289.5	1,270.5	1,248.1	1,250.8	1,234.7
Motor vehicles and equipment .....	371	1,010.4	995.0	998.6	999.7	989.0	799.1	779.5	759.6	762.2	747.8
Motor vehicles and car bodies .....	3711	361.4	348.1	357.2	356.2	—	278.2	261.7	255.6	256.0	—
Truck and bus bodies .....	3713	41.4	41.2	42.7	43.0	—	32.9	32.7	33.7	34.1	—
Motor vehicle parts and accessories .....	3714	551.8	548.7	538.8	540.1	—	442.3	438.8	421.9	423.0	—
Truck trailers .....	3715	35.9	36.6	38.8	39.2	—	29.3	29.6	31.1	31.5	—
Aircraft and parts .....	372	521.6	521.2	521.9	520.9	517.9	265.7	265.8	261.3	259.7	—
Aircraft .....	3721	274.8	273.7	271.1	270.7	—	117.8	117.2	114.3	113.4	—
Aircraft engines and engine parts .....	3724	101.5	102.2	103.6	103.8	—	54.6	54.6	52.1	52.2	—
Aircraft parts and equipment, nec .....	3728	145.3	145.3	147.2	146.4	—	93.3	94.0	94.9	94.1	—
Ship and boat building and repairing .....	373	157.3	157.7	162.6	162.9	—	119.7	120.0	123.3	123.7	—
Ship building and repairing .....	3731	99.7	99.7	100.4	100.3	—	71.7	71.7	71.7	71.6	—
Boat building and repairing .....	3732	57.6	58.0	62.2	62.6	—	48.0	48.3	51.6	52.1	—
Railroad equipment .....	374	33.6	33.5	34.6	34.8	—	25.3	25.4	25.1	25.0	—
Guided missiles, space vehicles, and parts .....	376	91.3	90.7	86.8	86.1	—	24.5	24.3	22.7	22.6	—
Guided missiles and space vehicles .....	3761	63.1	62.8	60.2	59.7	—	15.4	15.3	14.2	14.2	—
Miscellaneous transportation equipment .....	379	53.0	53.1	54.1	56.0	—	38.6	38.9	40.1	41.5	—
Travel trailers and campers .....	3792	22.3	22.2	23.1	23.8	—	18.7	18.7	19.5	20.2	—
Instruments and related products .....	38	868.7	868.7	845.0	842.2	837.5	429.1	431.1	424.3	424.4	424.1
Search and navigation equipment .....	381	161.3	161.2	156.8	155.7	—	43.0	43.1	43.8	43.1	—
Measuring and controlling devices .....	382	301.3	302.0	293.9	292.6	—	154.4	155.2	149.7	149.8	—
Environmental controls .....	3822	40.4	40.4	38.8	38.5	—	27.3	27.6	27.0	26.8	—
Process control instruments .....	3823	66.2	66.4	64.3	64.4	—	34.1	34.1	32.2	32.6	—
Instruments to measure electricity .....	3825	76.6	77.1	75.1	74.0	—	32.2	32.5	30.3	30.2	—
Medical instruments and supplies .....	384	278.7	279.4	276.9	276.7	—	162.2	163.7	165.1	165.6	—
Surgical and medical instruments .....	3841	108.7	108.9	107.9	108.0	—	68.5	69.0	69.9	69.7	—
Surgical appliances and supplies .....	3842	96.2	97.1	96.5	96.8	—	59.8	60.5	59.9	60.2	—
Ophthalmic goods .....	385	36.0	36.2	36.0	36.2	—	23.7	23.5	25.2	25.4	—
Photographic equipment and supplies .....	386	83.4	82.0	74.2	73.7	—	39.2	39.1	34.6	34.5	—
Watches, clocks, watchcases, and parts .....	387	8.0	7.9	7.2	7.3	—	6.6	6.5	5.9	6.0	—
Miscellaneous manufacturing industries .....	39	388.0	383.2	382.3	377.4	373.5	270.8	267.3	266.3	262.1	257.2
Jewelry, silverware, and plated ware .....	391	49.0	47.9	51.3	51.0	—	33.8	33.0	35.4	34.9	—
Jewelry, precious metal .....	3911	36.8	35.8	38.5	38.2	—	25.0	24.2	26.1	25.6	—
Musical instruments .....	393	16.4	16.5	16.7	16.8	—	13.0	13.0	13.4	13.5	—
Toys and sporting goods .....	394	107.0	104.7	96.7	95.5	—	72.7	71.1	65.2	64.3	—
Dolls, games, toys, and children's vehicles .....	3942,4	36.5	34.5	32.3	31.6	—	23.4	21.9	21.0	20.3	—
Sporting and athletic goods, nec .....	3949	70.5	70.2	64.4	63.9	—	49.3	49.2	44.2	44.0	—
Pens, pencils, office, and art supplies .....	395	30.4	30.2	29.7	29.9	—	20.7	20.7	20.7	20.8	—
Costume jewelry and notions .....	396	23.7	23.2	23.3	22.4	—	16.8	16.4	16.8	16.0	—
Costume jewelry .....	3961	13.6	13.0	13.5	12.6	—	9.8	9.3	9.9	9.0	—
Miscellaneous manufactures .....	399	161.5	160.7	164.6	161.8	—	113.8	113.1	114.8	112.6	—
Signs and advertising specialties .....	3993	70.4	70.6	74.1	74.1	—	45.9	46.0	48.3	48.2	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Nondurable goods</b> .....		7,668	7,601	7,586	7,559	7,492	5,352	5,295	5,265	5,240	5,190
Food and kindred products .....	20	1,688.3	1,664.6	1,719.2	1,704.7	1,688.3	1,251.6	1,231.6	1,281.5	1,265.2	1,250.4
Meat products .....	201	497.6	492.8	510.8	510.7	—	422.7	418.1	436.9	435.7	—
Meat packing plants .....	2011	153.2	152.3	155.9	155.8	—	128.4	127.3	131.0	130.6	—
Sausages and other prepared meats .....	2013	97.8	96.4	102.0	101.8	—	75.6	74.6	80.8	80.4	—
Poultry slaughtering and processing .....	2015	246.6	244.1	252.9	253.1	—	218.7	216.2	225.1	224.7	—
Dairy products .....	202	140.6	140.3	142.1	141.5	—	93.4	93.9	97.0	96.2	—
Cheese, natural and processed .....	2022	40.2	40.0	40.4	40.2	—	32.8	32.6	32.7	32.4	—
Fluid milk .....	2026	61.8	61.5	62.5	62.2	—	35.2	35.4	37.2	36.6	—
Preserved fruits and vegetables .....	203	214.6	205.7	225.8	215.7	—	178.2	170.0	189.0	178.7	—
Canned specialties .....	2032	18.8	18.8	18.9	18.7	—	14.8	14.9	15.0	14.8	—
Canned fruits and vegetables .....	2033	58.7	56.0	62.5	56.5	—	47.3	44.8	51.3	45.3	—
Frozen fruits and vegetables .....	2037	46.1	44.0	49.9	48.1	—	39.8	38.0	43.3	41.6	—
Grain mill products .....	204	125.4	124.8	125.1	125.3	—	90.6	89.9	88.2	89.0	—
Flour and other grain mill products .....	2041	19.0	19.0	19.3	19.3	—	11.8	11.8	11.6	11.8	—
Prepared feeds, nec .....	2048	39.5	39.4	39.8	39.8	—	26.3	26.0	25.8	26.1	—
Bakery products .....	205	211.0	208.6	211.2	213.3	—	141.5	139.6	143.3	144.6	—
Bread, cake, and related products .....	2051	151.3	150.6	152.5	152.6	—	91.2	90.8	92.8	92.5	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	59.7	58.0	58.7	60.7	—	50.3	48.8	50.5	52.1	—
Sugar and confectionery products .....	206	107.1	102.7	107.1	105.2	—	85.0	80.4	85.5	83.4	—
Raw cane sugar .....	2061	7.9	6.9	8.0	7.9	—	6.0	5.1	6.5	6.5	—
Cane sugar refining .....	2062	4.3	4.2	4.1	4.2	—	3.1	3.1	3.2	3.3	—
Beet sugar .....	2063	9.7	9.4	10.8	10.2	—	8.7	8.4	9.7	9.1	—
Candy and other confectionery products .....	2064	58.3	55.7	57.8	56.7	—	47.0	43.9	45.9	44.6	—
Fats and oils .....	207	33.7	33.1	35.6	35.3	—	23.7	23.2	24.5	24.3	—
Beverages .....	208	181.1	179.2	184.9	184.2	—	88.6	87.6	90.4	89.1	—
Malt beverages .....	2082	33.6	33.2	33.2	32.9	—	21.5	21.4	20.7	20.3	—
Bottled and canned soft drinks .....	2086	94.0	93.4	96.5	96.6	—	38.4	37.9	39.3	38.8	—
Misc. food and kindred products .....	209	177.2	177.4	176.6	173.5	—	127.9	128.9	126.7	124.2	—
Tobacco products .....	21	43.5	42.5	41.8	42.0	42.0	34.3	34.3	33.0	33.0	33.1
Cigarettes .....	211	27.7	26.9	25.7	25.7	—	20.7	20.9	19.1	18.9	—
Textile mill products .....	22	611.3	605.5	584.4	581.3	575.6	518.7	513.3	493.6	490.5	486.6
Broadwoven fabric mills, cotton .....	221	71.8	69.8	68.0	67.1	—	64.4	62.3	60.9	60.0	—
Broadwoven fabric mills, synthetics .....	222	66.1	65.8	63.8	63.5	—	55.7	55.8	54.3	54.1	—
Broadwoven fabric mills, wool .....	223	13.9	13.8	11.7	11.7	—	11.8	11.7	9.8	9.8	—
Narrow fabric mills .....	224	21.3	21.0	21.0	20.9	—	17.7	17.4	17.2	17.1	—
Knitting mills .....	225	167.6	165.3	154.1	152.4	—	142.9	140.6	130.1	128.1	—
Women's hosiery, except socks .....	2251	19.1	18.5	16.9	17.0	—	16.8	16.2	14.5	14.6	—
Hosiery, nec .....	2252	37.2	36.9	36.3	36.1	—	32.5	31.9	31.4	31.3	—
Knit outerwear mills .....	2253	49.8	49.2	45.4	44.0	—	42.7	42.2	38.5	37.0	—
Knit underwear mills .....	2254	14.1	13.4	12.2	11.8	—	12.4	11.7	10.9	10.5	—
Wet knit fabric mills .....	2257	25.4	25.4	22.2	22.4	—	21.0	21.2	18.5	18.5	—
Textile finishing, except wool .....	226	65.9	66.0	61.6	61.2	—	53.9	54.1	50.7	50.4	—
Finishing plants, cotton .....	2261	30.8	30.8	28.6	28.6	—	25.2	25.2	23.5	23.5	—
Finishing plants, synthetics .....	2262	20.8	20.7	19.3	18.8	—	16.7	16.7	15.7	15.3	—
Carpets and rugs .....	227	65.3	64.8	67.4	68.0	—	54.8	54.5	56.3	56.8	—
Yarn and thread mills .....	228	85.6	85.6	82.3	82.5	—	75.7	75.6	72.6	72.7	—
Yarn spinning mills .....	2281	62.4	62.4	59.7	60.2	—	55.6	55.5	53.1	53.5	—
Throwing and winding mills .....	2282	16.2	16.3	16.2	15.9	—	13.8	13.9	13.8	13.5	—
Miscellaneous textile goods .....	229	53.8	53.4	54.5	54.0	—	41.8	41.3	41.7	41.5	—
Apparel and other textile products .....	23	805.9	793.9	740.1	732.1	716.3	654.3	643.2	591.3	584.8	570.4
Men's and boys' suits and coats .....	231	29.3	29.2	26.9	26.9	—	23.7	23.7	21.5	21.5	—
Men's and boys' furnishings .....	232	199.6	194.6	176.6	174.1	—	168.9	164.6	148.0	145.7	—
Men's and boys' shirts .....	2321	40.4	39.2	33.5	33.5	—	34.9	34.0	28.8	28.7	—
Men's and boys' trousers and slacks .....	2325	67.9	66.5	63.3	61.5	—	58.6	57.4	54.5	52.8	—
Men's and boys' work clothing .....	2326	30.4	29.5	27.5	27.7	—	26.3	25.4	23.7	23.9	—
Women's and misses' outerwear .....	233	245.2	240.8	219.2	215.9	—	197.1	193.3	171.0	168.4	—
Women's and misses' blouses and shirts .....	2331	21.8	20.7	19.1	19.2	—	16.6	15.9	14.0	14.2	—
Women's, juniors', and misses' dresses .....	2335	39.0	37.8	35.3	34.6	—	30.2	29.1	26.9	26.2	—
Women's and misses' suits and coats .....	2337	25.2	24.5	22.1	21.8	—	19.6	19.1	16.7	16.6	—
Women's and misses' outerwear, nec .....	2339	159.2	157.8	142.7	140.3	—	130.7	129.2	113.4	111.4	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	33.6	33.5	30.6	30.2	-	26.5	26.4	24.5	24.2	-
Women's and children's underwear .....	2341	24.5	24.7	22.3	22.3	-	19.7	20.0	17.8	17.8	-
Brassieres, girdles, and allied garments .....	2342	9.1	8.8	8.3	7.9	-	6.8	6.4	6.7	6.4	-
Girls' and children's outerwear .....	236	28.9	28.3	24.1	23.6	-	23.7	23.2	19.6	19.3	-
Girls' and children's dresses and blouses .....	2361	11.4	11.6	9.3	9.4	-	9.7	10.0	8.2	8.3	-
Misc. apparel and accessories .....	238	33.1	32.8	30.7	30.5	-	26.3	26.0	23.9	24.0	-
Misc. fabricated textile products .....	239	219.0	217.7	215.1	214.3	-	174.6	172.6	169.5	168.8	-
Curtains and draperies .....	2391	18.6	18.9	17.1	17.1	-	14.3	14.5	13.2	13.3	-
House furnishings, nec .....	2392	56.6	56.2	57.1	57.6	-	47.7	47.5	48.2	48.6	-
Automotive and apparel trimmings .....	2396	61.0	60.4	61.2	59.9	-	48.0	47.1	47.2	46.1	-
Paper and allied products .....	26	687.1	685.6	674.2	673.7	668.4	524.3	523.4	512.4	512.2	508.1
Paper mills .....	262	157.4	157.0	152.5	152.5	-	122.2	122.0	119.4	119.3	-
Paperboard mills .....	263	49.8	50.3	49.4	49.2	-	38.5	39.0	37.8	37.7	-
Paperboard containers and boxes .....	265	220.9	219.8	216.5	216.6	-	171.2	170.6	167.8	168.0	-
Corrugated and solid fiber boxes .....	2653	133.9	133.9	131.4	131.2	-	100.4	100.4	98.2	98.2	-
Sanitary food containers .....	2656	16.7	16.8	16.3	16.7	-	15.0	15.0	14.7	15.0	-
Folding paperboard boxes .....	2657	47.6	46.8	46.5	46.5	-	38.4	38.0	37.7	37.5	-
Misc. converted paper products .....	267	247.3	246.5	244.2	243.9	-	183.1	182.3	178.2	178.0	-
Paper, coated and laminated, nec .....	2672	47.8	47.9	47.5	47.2	-	25.7	25.4	23.2	22.8	-
Bags: plastics, laminated, and coated .....	2673	40.6	40.4	39.8	39.4	-	31.9	31.9	31.1	30.8	-
Envelopes .....	2677	25.9	25.8	25.0	25.1	-	20.3	20.2	19.3	19.3	-
Printing and publishing .....	27	1,571.2	1,560.8	1,570.6	1,572.2	1,562.0	858.3	846.7	843.4	845.2	836.6
Newspapers .....	271	445.7	443.4	445.1	445.7	-	149.7	148.1	148.2	149.4	-
Periodicals .....	272	137.8	137.4	140.1	141.0	-	47.2	46.9	45.0	45.1	-
Books .....	273	129.1	129.1	126.4	127.4	-	67.2	67.2	58.3	59.1	-
Book publishing .....	2731	89.4	89.7	87.6	87.9	-	35.7	35.9	27.9	28.1	-
Book printing .....	2732	39.7	39.4	38.8	39.5	-	31.5	31.3	30.4	31.0	-
Miscellaneous publishing .....	274	89.7	89.9	93.0	92.6	-	42.8	42.4	44.8	45.2	-
Commercial printing .....	275	579.4	574.3	579.5	580.6	-	414.6	407.8	413.2	413.8	-
Commercial printing, lithographic .....	2752	377.3	374.4	379.2	380.0	-	269.3	265.3	270.7	271.2	-
Commercial printing, nec .....	2759	181.9	180.7	180.9	181.1	-	129.3	127.6	127.3	127.3	-
Manifold business forms .....	276	43.0	42.9	42.3	42.4	-	30.6	30.6	28.8	28.8	-
Blankbooks and bookbinding .....	278	67.3	66.4	65.6	64.9	-	51.1	50.4	49.6	49.2	-
Printing trade services .....	279	49.3	49.2	49.1	48.6	-	33.4	33.2	32.9	32.4	-
Chemicals and allied products .....	28	1,034.3	1,029.7	1,033.6	1,033.0	1,026.9	577.8	577.3	580.1	581.1	580.9
Industrial inorganic chemicals .....	281	116.0	115.9	113.1	112.8	-	59.7	60.0	63.3	63.8	-
Industrial inorganic chemicals, nec .....	2819	70.0	69.9	68.6	68.3	-	35.4	35.4	36.1	36.0	-
Plastics materials and synthetics .....	282	157.0	156.2	151.1	151.2	-	104.6	104.1	98.7	98.7	-
Plastics materials and resins .....	2821	80.4	80.5	79.5	79.6	-	49.9	49.8	47.8	48.0	-
Organic fibers, noncellulosic .....	2824	44.9	44.8	41.7	42.0	-	35.4	35.4	32.9	33.2	-
Drugs .....	283	268.7	268.4	277.2	277.9	-	121.1	122.3	125.5	126.1	-
Pharmaceutical preparations .....	2834	212.6	212.4	219.9	220.4	-	97.3	98.5	101.7	102.1	-
Soap, cleaners, and toilet goods .....	284	158.3	155.9	157.4	156.1	-	97.6	96.7	97.1	96.7	-
Soap and other detergents .....	2841	42.5	41.8	41.6	41.9	-	22.5	23.1	23.1	24.2	-
Polishing, sanitation, and finishing preparations .....	2842,3	40.4	40.5	41.8	41.8	-	22.8	22.9	23.4	23.5	-
Toilet preparations .....	2844	75.4	73.6	74.0	72.4	-	52.3	50.7	50.6	49.0	-
Paints and allied products .....	285	51.5	51.4	52.6	52.5	-	27.4	27.3	27.6	27.5	-
Industrial organic chemicals .....	286	137.4	136.9	136.9	136.7	-	79.3	79.2	79.4	79.7	-
Cyclic crudes and intermediates .....	2865	23.3	23.2	22.9	22.8	-	14.0	13.9	13.8	13.8	-
Industrial organic chemicals, nec .....	2869	111.6	111.2	111.6	111.4	-	63.5	63.5	63.8	64.1	-
Agricultural chemicals .....	287	50.9	51.0	51.0	51.1	-	30.8	30.9	30.8	30.6	-
Miscellaneous chemical products .....	289	94.5	94.0	94.3	94.7	-	57.3	56.8	57.7	58.0	-
Petroleum and coal products .....	29	136.6	131.6	135.6	133.5	128.8	89.2	84.8	89.9	88.1	85.0
Petroleum refining .....	291	96.1	93.0	91.7	91.7	-	62.8	59.8	60.0	60.1	-
Asphalt paving and roofing materials .....	295	26.0	24.1	29.3	27.2	-	18.6	17.2	21.9	20.0	-
Rubber and misc. plastics products .....	30	1,002.7	1,001.3	1,006.8	1,009.2	1,007.9	777.8	776.0	780.6	781.7	782.6
Tires and inner tubes .....	301	77.2	77.6	77.6	78.2	-	56.0	57.0	57.2	57.7	-
Rubber and plastics footwear .....	302	7.1	7.3	5.9	5.9	-	5.7	5.6	4.3	4.4	-
Hose, belting, gaskets, and packing .....	305	70.5	70.9	71.3	71.2	-	54.5	55.1	54.7	54.5	-
Rubber and plastics hose and belting .....	3052	28.6	28.8	29.9	29.9	-	22.4	22.8	23.4	23.4	-
Fabricated rubber products, nec .....	306	113.0	112.2	111.0	111.1	-	86.6	85.8	85.2	85.1	-
Miscellaneous plastics products, nec .....	308	734.9	733.3	741.0	742.8	-	575.0	572.5	579.2	580.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	87.2	85.5	79.2	77.6	76.1	65.9	64.7	59.2	57.7	56.5
Leather tanning and finishing .....	311	13.0	13.1	11.6	11.7	—	10.7	10.9	9.4	9.6	—
Footwear, except rubber .....	314	37.8	36.8	33.7	32.8	—	30.3	29.4	27.0	26.3	—
Men's footwear, except athletic .....	3143	21.1	20.7	18.5	18.3	—	16.6	16.2	14.3	14.1	—
Women's footwear, except athletic .....	3144	10.0	9.6	8.6	8.3	—	7.8	7.5	6.9	6.8	—
Luggage .....	316	10.6	10.3	9.6	9.1	—	7.6	7.3	6.8	6.3	—
Handbags and personal leather goods .....	317	9.3	9.1	8.7	8.5	—	5.4	5.3	5.0	4.6	—
<b>Transportation and public utilities .....</b>		<b>6,508</b>	<b>6,413</b>	<b>6,647</b>	<b>6,678</b>	<b>6,586</b>	<b>5,417</b>	<b>5,318</b>	<b>5,527</b>	<b>5,554</b>	<b>5,471</b>
Transportation .....		4,196	4,101	4,293	4,319	4,224	—	—	—	—	—
Railroad transportation .....	40	229.1	227.9	232.3	232.1	231.5	—	—	—	—	—
Class I railroads plus Amtrak <sup>2</sup> .....	4011	202.9	201.7	205.4	205.2	—	—	—	—	—	—
Local and interurban passenger transit .....	41	469.6	465.3	483.5	483.5	476.9	431.2	426.6	442.6	442.0	—
Local and suburban transportation .....	411	233.8	233.2	239.0	238.1	—	212.7	212.1	216.5	215.5	—
Taxicabs .....	412	31.2	31.4	31.3	31.6	—	—	—	—	—	—
Intercity and rural bus transportation .....	413	21.2	20.7	23.6	24.1	—	19.2	18.6	21.3	21.5	—
School buses .....	415	149.8	149.0	156.3	156.9	—	—	—	—	—	—
Trucking and warehousing .....	42	1,683.7	1,645.7	1,735.4	1,730.3	1,699.6	1,477.0	1,437.7	1,521.4	1,515.6	—
Trucking and courier services, except air .....	421	1,519.1	1,484.2	1,566.9	1,563.4	—	1,339.2	1,303.1	1,379.8	1,375.9	—
Public warehousing and storage .....	422	159.0	156.3	163.5	161.8	—	132.8	129.9	137.1	135.1	—
Water transportation .....	44	173.9	168.6	189.5	185.6	182.9	—	—	—	—	—
Water transportation of freight, nec .....	444	14.3	14.2	15.5	15.5	—	—	—	—	—	—
Water transportation services .....	449	117.2	112.9	128.3	125.1	—	102.7	98.6	112.9	109.4	—
Transportation by air .....	45	1,183.4	1,138.9	1,183.5	1,218.3	1,166.1	—	—	—	—	—
Air transportation, scheduled .....	451	1,014.9	970.4	1,004.7	1,038.2	—	—	—	—	—	—
Air transportation, scheduled .....	4512	519.4	517.2	531.5	534.4	—	—	—	—	—	—
Airports, flying fields, and services .....	458	125	125	133	134	—	—	—	—	—	—
Pipelines, except natural gas .....	46	14.1	14.2	14.1	14.1	14.0	11.5	11.5	11.5	11.4	—
Transportation services .....	47	441.8	439.9	454.7	455.5	453.3	361.3	359.3	372.1	372.7	—
Passenger transportation arrangement .....	472	212.7	212.8	217.3	215.9	—	178.2	178.4	182.6	180.9	—
Travel agencies .....	4724	169.5	170.4	172.6	171.8	—	142.1	143.0	145.1	143.9	—
Freight transportation arrangement .....	473	180.5	179.2	187.7	189.9	—	142.4	141.2	148.2	150.4	—
Communications and public utilities .....		2,312	2,312	2,354	2,359	2,362	—	—	—	—	—
Communications .....	48	1,455.0	1,456.5	1,504.3	1,509.1	1,514.3	1,083.8	1,076.2	1,102.9	1,107.3	—
Telephone communications .....	481	1,002.9	1,005.2	1,034.7	1,038.7	—	719.5	713.9	733.4	736.9	—
Telephone communications, except radio .....	4813	839.1	840.9	872.3	875.6	—	593.3	589.3	609.5	611.8	—
Radio and television broadcasting .....	483	244.6	243.1	246.0	245.5	—	203.3	201.6	201.3	200.7	—
Radio broadcasting stations .....	4832	117.1	116.0	119.7	119.3	—	—	—	—	—	—
Television broadcasting stations .....	4833	127.5	127.1	126.3	126.2	—	—	—	—	—	—
Cable and other pay television services .....	484	176.6	177.2	189.6	190.7	—	147.2	147.2	153.7	154.2	—
Electric, gas, and sanitary services .....	49	856.5	855.6	850.1	850.2	847.2	680.8	681.5	683.8	683.3	—
Electric services .....	491	363.6	363.1	360.6	360.5	—	291.0	291.9	293.0	293.2	—
Gas production and distribution .....	492	139.7	140.6	138.4	138.5	—	107.9	109.1	107.3	107.5	—
Combination utility services .....	493	159.1	158.1	155.4	155.3	—	122.8	122.1	122.6	122.2	—
Sanitary services .....	495	161.7	161.4	163.1	163.2	—	133.6	132.9	135.1	134.4	—
<b>Wholesale trade .....</b>		<b>6,731</b>	<b>6,702</b>	<b>6,889</b>	<b>6,884</b>	<b>6,855</b>	<b>5,405</b>	<b>5,371</b>	<b>5,524</b>	<b>5,514</b>	<b>5,479</b>
Durable goods .....	50	4,000	3,994	4,100	4,103	4,090	3,162	3,151	3,235	3,232	—
Motor vehicles, parts, and supplies .....	501	514.7	514.2	523.1	523.5	—	414.6	413.6	414.9	414.4	—
Automobiles and other motor vehicles .....	5012	146.4	146.8	152.3	153.2	—	—	—	—	—	—
Motor vehicle supplies and new parts .....	5013	290.6	290.0	290.4	290.0	—	—	—	—	—	—
Furniture and home furnishings .....	502	161.7	160.8	168.3	168.7	—	128.7	127.4	135.1	135.3	—
Furniture .....	5021	77.8	77.9	82.2	82.1	—	—	—	—	—	—
Home furnishings .....	5023	83.9	82.9	86.1	86.6	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Lumber and other construction materials .....	503	258.0	255.4	274.0	272.0	—	213.5	210.6	227.5	225.4	—
Lumber, plywood, and millwork .....	5031	132.3	133.0	140.1	139.8	—	—	—	—	—	—
Construction materials, nec .....	5039	38.4	37.2	40.8	40.2	—	—	—	—	—	
Professional and commercial equipment .....	504	882.2	886.6	930.0	934.1	—	686.4	687.6	726.1	727.5	—
Office equipment .....	5044	204.8	206.7	216.4	217.8	—	—	—	—	—	—
Computers, peripherals and software .....	5045	350.9	352.2	372.6	373.5	—	—	—	—	—	—
Medical and hospital equipment .....	5047	184.3	185.7	194.4	195.9	—	148.8	149.3	157.0	158.0	—
Metals and minerals, except petroleum .....	505	148.8	149.4	151.9	151.9	—	120.5	120.9	122.2	121.9	—
Electrical goods .....	506	552.6	550.0	557.6	558.3	—	406.7	403.2	406.6	406.8	—
Electrical apparatus and equipment .....	5063	230.4	230.6	234.8	235.2	—	—	—	—	—	—
Electrical appliances, television and radio sets .....	5064	50.1	49.4	50.6	51.1	—	—	—	—	—	—
Electronic parts and equipment .....	5065	272.1	270.0	272.2	272.0	—	—	—	—	—	—
Hardware, plumbing, and heating equipment .....	507	300.9	299.3	302.7	302.6	—	244.8	243.3	246.7	246.2	—
Hardware .....	5072	107.5	107.0	109.0	109.1	—	—	—	—	—	—
Plumbing and hydronic heating supplies .....	5074	118.9	117.9	118.4	118.8	—	—	—	—	—	—
Machinery, equipment, and supplies .....	508	826.3	827.7	835.2	836.2	—	659.6	660.9	666.1	666.8	—
Construction and mining machinery .....	5082	90.2	90.6	93.1	93.6	—	—	—	—	—	—
Farm and garden machinery .....	5083	120.4	120.2	121.3	120.9	—	—	—	—	—	—
Industrial machinery and equipment .....	5084	335.7	336.3	337.3	337.2	—	—	—	—	—	—
Industrial supplies .....	5085	154.8	155.4	156.5	156.4	—	—	—	—	—	—
Misc. wholesale trade durable goods .....	509	354.8	350.2	356.9	355.5	—	287.6	283.0	289.5	287.8	—
Scrap and waste materials .....	5093	134.0	132.9	129.8	128.9	—	—	—	—	—	—
Nondurable goods .....	51	2,731	2,708	2,789	2,781	2,765	2,243	2,220	2,289	2,282	—
Paper and paper products .....	511	266.8	265.6	272.5	272.2	—	223.0	221.8	227.9	226.5	—
Stationery and office supplies .....	5112	155.8	155.1	160.8	160.0	—	—	—	—	—	—
Drugs, proprietaries, and sundries .....	512	217.3	213.1	217.4	219.2	—	180.6	177.0	181.1	183.1	—
Apparel, piece goods, and notions .....	513	223.0	219.9	232.1	228.4	—	180.8	177.6	189.2	185.5	—
Groceries and related products .....	514	905.8	900.2	919.9	922.0	—	763.7	757.2	772.5	774.5	—
Groceries, general line .....	5141	289.9	288.7	287.6	287.4	—	—	—	—	—	—
Meats and meat products .....	5147	56.0	55.7	56.7	57.0	—	—	—	—	—	—
Fresh fruits and vegetables .....	5148	97.4	95.2	100.8	98.2	—	—	—	—	—	—
Farm-product raw materials .....	515	107.4	105.1	110.7	110.1	—	86.4	84.4	90.2	88.9	—
Chemicals and allied products .....	516	150.4	150.4	151.6	150.5	—	109.4	109.9	110.2	109.6	—
Petroleum and petroleum products .....	517	158.2	157.9	158.5	159.4	—	131.1	130.9	130.8	131.4	—
Petroleum bulk stations and terminals .....	5171	65.3	65.6	67.0	67.4	—	—	—	—	—	—
Petroleum products, nec .....	5172	92.9	92.3	91.5	92.0	—	—	—	—	—	—
Beer, wine, and distilled beverages .....	518	154.2	152.3	156.5	156.9	—	124.6	122.5	126.9	127.4	—
Beer and ale .....	5181	98.4	97.4	100.0	100.1	—	—	—	—	—	—
Wine and distilled beverages .....	5182	55.8	54.9	56.5	56.8	—	—	—	—	—	—
Misc. wholesale trade nondurable goods .....	519	548.2	543.4	569.8	562.7	—	443.4	439.0	460.0	454.7	—
Farm supplies .....	5191	162.1	161.7	168.1	165.7	—	—	—	—	—	—
<b>Retail trade .....</b>		<b>22,906</b>	<b>21,885</b>	<b>23,023</b>	<b>23,383</b>	<b>22,337</b>	<b>20,222</b>	<b>19,210</b>	<b>20,240</b>	<b>20,574</b>	<b>19,541</b>
Building materials and garden supplies .....	52	934.9	902.6	983.0	983.1	954.8	776.0	745.0	815.2	814.3	—
Lumber and other building materials .....	521	565.4	555.2	598.5	597.0	—	476.7	467.6	504.7	502.6	—
Paint, glass, and wallpaper stores .....	523	69.4	67.3	70.0	70.2	—	54.1	52.0	52.6	52.5	—
Hardware stores .....	525	165.2	161.7	167.1	168.5	—	136.2	132.4	138.5	139.5	—
Retail nurseries and garden stores .....	526	90.4	74.2	97.5	97.2	—	74.4	58.5	80.2	80.0	—
General merchandise stores .....	53	3,072.8	2,766.0	3,044.1	3,139.1	2,797.6	2,869.9	2,561.0	2,847.4	2,935.6	—
Department stores .....	531	2,693.7	2,430.6	2,693.0	2,764.4	2,460.8	2,539.8	2,273.7	2,544.1	2,610.0	—
Variety stores .....	533	161.6	137.9	148.5	157.8	—	138.2	116.1	127.6	135.5	—
Miscellaneous general merchandise stores .....	539	217.5	197.5	202.6	216.9	—	191.9	171.2	175.7	190.1	—
Food stores .....	54	3,581.3	3,513.5	3,594.6	3,625.7	3,543.4	3,257.0	3,184.8	3,254.1	3,286.5	—
Grocery stores .....	541	3,116.6	3,091.4	3,117.5	3,134.1	—	2,853.7	2,823.3	2,844.9	2,863.7	—
Meat and fish markets .....	542	56.4	47.8	56.2	57.8	—	—	—	—	—	—
Dairy products stores .....	545	14.8	12.0	14.0	14.9	—	—	—	—	—	—
Retail bakeries .....	546	222.5	216.1	232.9	237.1	—	194.5	189.2	202.8	206.5	—
Automotive dealers and service stations .....	55	2,317.8	2,300.9	2,368.4	2,367.2	2,356.4	1,933.7	1,914.8	1,960.8	1,957.4	—
New and used car dealers .....	551	1,051.9	1,049.6	1,069.3	1,069.2	1,066.9	882.8	879.5	897.2	896.0	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Retail trade—Continued</b>											
Automotive dealers and service stations—Continued											
Auto and home supply stores .....	553	402.9	397.4	418.6	416.7	—	314.1	307.4	315.7	313.4	—
Gasoline service stations .....	554	668.3	660.8	675.1	676.2	—	581.9	574.2	584.0	584.6	—
Automotive dealers, nec .....	559	9.7	9.7	9.8	9.7	—	8.1	7.9	8.0	8.0	—
Apparel and accessory stores .....											
Men's and boys' clothing stores .....	56	1,206.9	1,112.8	1,155.1	1,201.4	1,114.7	1,020.2	931.1	973.5	1,018.7	—
Women's clothing stores .....	561	86.5	81.4	81.3	86.2	—	70.7	66.0	66.3	70.9	—
Family clothing stores .....	562	301.3	278.2	279.7	289.3	—	252.2	231.4	233.0	242.4	—
Shoe stores .....	565	407.3	361.5	392.1	413.4	—	367.3	323.4	352.8	373.4	—
Shoe stores .....	566	210.3	202.7	202.2	207.2	—	167.4	159.6	160.0	165.1	—
Furniture and home furnishings stores .....											
Furniture and home furnishings stores .....	57	1,081.4	1,046.3	1,107.7	1,132.4	1,100.7	896.4	862.0	916.8	941.3	—
Furniture stores .....	571	548.7	530.9	562.0	570.2	—	449.4	433.0	459.6	467.5	—
Household appliance stores .....	5712	316.1	311.3	327.8	330.3	—	—	—	—	—	—
Radio, television, and computer stores .....	572	72.7	70.4	69.9	71.5	—	59.2	57.0	56.7	58.4	—
Radio, television, and electronic stores .....	573	460.0	445.0	475.8	490.7	—	387.8	372.0	400.5	415.4	—
Record and prerecorded tape stores .....	5731	203.9	195.6	209.4	214.7	—	170.7	163.7	176.4	181.5	—
Record and prerecorded tape stores .....	5735	90.2	83.1	95.6	103.4	—	78.1	69.7	82.2	90.6	—
Eating and drinking places .....	58	7,637.7	7,362.6	7,738.9	7,809.7	7,528.7	6,870.2	6,603.9	6,933.1	6,991.3	—
Miscellaneous retail establishments .....											
Drug stores and proprietary stores .....	59	3,073.0	2,880.2	3,031.5	3,124.8	2,941.0	2,598.1	2,407.4	2,538.6	2,628.6	—
Liquor stores .....	591	652.1	646.7	661.7	670.2	—	547.2	542.4	550.5	558.4	—
Used merchandise stores .....	592	115.2	111.6	113.9	116.3	—	—	—	—	—	—
Miscellaneous shopping goods stores .....	593	119.2	118.4	123.6	124.6	—	99.0	98.1	103.0	103.7	—
Sporting goods and bicycle shops .....	594	1,162.1	1,029.2	1,086.9	1,158.2	—	998.0	865.1	920.0	989.1	—
Book stores .....	5941	215.0	199.9	208.3	215.0	—	—	—	—	—	—
Stationery stores .....	5942	147.1	142.9	137.0	147.6	—	—	—	—	—	—
Jewelry stores .....	5943	92.6	92.2	95.9	97.2	—	—	—	—	—	—
Gift, novelty, and souvenir shops .....	5944	161.5	155.7	153.4	160.8	—	—	—	—	—	—
Sewing, needlework, and piece goods .....	5947	251.1	225.2	248.3	261.1	—	—	—	—	—	—
Nonstore retailers .....	5949	52.6	50.6	50.4	51.5	—	—	—	—	—	—
Catalog and mail-order houses .....	596	384.3	357.7	393.8	390.8	—	327.9	302.5	336.9	334.5	—
Merchandising machine operators .....	5961	258.8	233.0	271.7	269.1	—	—	—	—	—	—
Fuel dealers .....	5962	68.3	68.0	69.1	68.9	—	—	—	—	—	—
Retail stores, nec .....	598	101.4	102.3	100.3	101.6	—	84.3	85.4	82.7	84.0	—
Florists, tobacco stores, and newsstands .....	599	538.7	514.3	551.3	563.1	—	447.4	422.9	452.9	463.8	—
Optical goods stores .....	5992,3,4	163.8	151.0	158.9	170.1	—	—	—	—	—	—
Miscellaneous retail stores, nec .....	5995	69.6	71.0	75.7	75.8	—	57.1	58.0	60.1	60.7	—
Miscellaneous retail stores, nec .....	5999	305.3	292.3	316.7	317.2	—	249.9	237.1	258.6	258.5	—
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>7,173</b>	<b>7,157</b>	<b>7,418</b>	<b>7,436</b>	<b>7,421</b>	<b>5,241</b>	<b>5,232</b>	<b>5,441</b>	<b>5,452</b>	<b>5,432</b>
Finance .....		3,478	3,478	3,597	3,613	3,617	—	—	—	—	—
Depository institutions .....											
Commercial banks .....	60	2,040.8	2,034.5	2,038.3	2,045.2	2,044.5	1,464.8	1,461.5	1,463.0	1,468.0	—
State commercial banks .....	602	1,467.3	1,461.7	1,452.7	1,457.3	1,455.4	1,038.7	1,035.9	1,028.0	1,031.2	—
National and commercial banks, nec .....	6022	595.5	595.4	604.4	609.8	—	425.9	426.4	433.4	438.2	—
Savings institutions .....	6021,9	871.8	866.3	848.3	847.5	—	612.8	609.5	594.6	593.0	—
Federal savings institutions .....	603	262.4	262.2	263.2	263.8	265.1	—	—	—	—	—
Savings institutions, except federal .....	6035	146.5	145.9	145.1	145.2	—	—	—	—	—	—
Credit unions .....	6036	115.9	116.3	118.1	118.6	—	—	—	—	—	—
Credit unions .....	606	175.2	175.0	180.8	181.6	—	139.2	138.9	143.9	144.7	—
Nondepository institutions .....											
Personal credit institutions .....	61	586.2	587.9	645.7	652.4	654.7	407.7	407.8	440.6	445.0	—
Business credit institutions .....	614	186.5	186.6	188.8	189.8	—	119.5	117.4	106.9	106.9	—
Mortgage bankers and brokers .....	615	117.1	117.8	127.1	128.7	—	—	—	—	—	—
Security and commodity brokers .....	616	261.4	262.6	307.4	311.9	312.6	—	—	—	—	—
Security and commodity brokers .....											
Commodity contracts brokers, dealers, and exchanges .....	62	618.8	622.8	662.7	664.7	665.4	—	—	—	—	—
Security and commodity services .....	621	458.9	459.9	484.4	486.4	—	—	—	—	—	—
Security and commodity services .....	622,3	25.5	25.4	25.5	25.5	—	—	—	—	—	—
Security and commodity services .....	628	134.4	137.5	152.8	152.8	—	89.5	91.5	103.0	104.1	—
Holding and other investment offices .....											
Holding offices .....	67	231.8	233.0	250.2	250.8	252.8	—	—	—	—	—
Holding offices .....	671	107.9	109.4	114.8	115.8	—	—	—	—	—	—

See footnotes at end of table.



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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Finance, insurance, and real estate—Continued</b>											
Insurance .....	63,64	2,289	2,287	2,356	2,360	2,356	-	-	-	-	-
Insurance carriers .....	63	1,556.1	1,553.4	1,605.8	1,609.6	1,608.1	1,153.6	1,157.1	1,223.7	1,227.0	-
Life insurance .....	631	524.3	522.7	530.6	532.1	-	344.5	344.2	358.0	358.5	-
Medical service and health insurance .....	632	345.3	345.7	360.6	360.9	-	279.9	280.3	289.3	289.9	-
Hospital and medical service plans .....	6324	282.9	283.5	296.3	296.4	-	232.9	233.6	242.1	242.6	-
Fire, marine, and casualty insurance .....	633	541.5	538.8	551.9	553.0	-	412.8	415.3	444.3	445.7	-
Title insurance .....	636	74.1	74.7	87.5	88.1	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	732.7	733.2	750.0	750.5	747.9	-	-	-	-	-
Real estate .....	65	1,406	1,392	1,465	1,463	1,448	-	-	-	-	-
Real estate operators and lessors .....	651	576.3	568.5	587.8	588.2	-	-	-	-	-	-
Real estate agents and managers .....	653	685.8	680.2	717.3	717.9	-	-	-	-	-	-
Subdividers and developers .....	655	109.5	107.4	119.7	115.5	-	-	-	-	-	-
<b>Services .....</b>		<b>36,647</b>	<b>36,114</b>	<b>38,040</b>	<b>37,975</b>	<b>37,385</b>	<b>32,010</b>	<b>31,466</b>	<b>33,151</b>	<b>33,063</b>	<b>32,445</b>
Agricultural services .....	07	636.9	585.3	736.5	687.4	629.0	530.6	482.7	621.9	574.4	-
Veterinary services .....	074	183.4	183.0	192.4	193.3	-	154.1	153.5	162.4	163.2	-
Landscape and horticultural services .....	078	404.1	353.3	493.2	442.9	-	335.4	288.3	417.3	368.9	-
Hotels and other lodging places .....	70	1,677.9	1,656.8	1,707.7	1,699.0	1,673.0	-	-	-	-	-
Hotels and motels .....	701	1,638.5	1,618.9	1,664.3	1,659.0	-	1,439.1	1,417.8	1,455.7	1,452.7	-
Personal services .....	72	1,159.9	1,216.8	1,151.3	1,160.8	1,217.8	-	-	-	-	-
Laundry, cleaning, and garment services .....	721	444.2	440.0	440.8	441.6	-	391.4	387.9	388.1	387.9	-
Photographic studios, portrait .....	722	72.2	57.0	54.7	51.5	-	-	-	-	-	-
Beauty shops .....	723	397.8	392.5	407.2	409.0	-	353.6	347.7	358.9	360.6	-
Funeral service and crematories .....	726	98.0	97.5	100.2	99.6	-	-	-	-	-	-
Miscellaneous personal services .....	729	131.9	214.1	133.5	144.1	-	109.2	188.5	110.5	118.8	-
Business services .....	73	8,359.6	8,135.1	8,834.8	8,821.3	8,576.7	7,433.2	7,199.7	7,817.6	7,805.2	-
Advertising .....	731	261.7	262.0	272.5	274.1	-	189.1	188.6	195.8	196.5	-
Advertising agencies .....	7311	170.6	171.0	177.1	177.7	-	-	-	-	-	-
Credit reporting and collection .....	732	137.3	135.9	140.1	140.9	-	-	-	-	-	-
Mailing, reproduction, and stenographic services .....	733	314.0	310.7	320.4	321.0	-	-	-	-	-	-
Photocopying and duplicating services .....	7334	77.1	77.2	79.9	79.4	-	65.1	65.6	66.9	66.6	-
Services to buildings .....	734	948.8	943.8	990.6	987.6	982.9	846.6	841.4	883.5	880.0	-
Disinfecting and pest control services .....	7342	88.8	88.9	96.4	95.6	-	71.4	71.2	78.0	76.9	-
Building maintenance services, nec .....	7349	860.0	854.9	894.2	892.0	-	775.2	770.2	805.5	803.1	-
Miscellaneous equipment rental and leasing .....	735	253.8	250.2	263.9	262.8	-	202.3	197.4	209.5	208.6	-
Medical equipment rental .....	7352	42.0	41.8	40.4	41.0	-	31.4	31.1	30.4	31.3	-
Heavy construction equipment rental .....	7353	44.9	43.8	48.1	48.0	-	38.0	36.8	40.7	40.6	-
Equipment rental and leasing, nec .....	7359	166.9	164.6	175.4	173.8	-	132.9	129.5	138.4	136.7	-
Personnel supply services .....	736	3,169.0	2,954.5	3,286.1	3,251.9	3,022.0	-	-	-	-	-
Employment agencies .....	7361	339.8	326.9	346.8	349.7	-	-	-	-	-	-
Help supply services .....	7363	2,829.2	2,627.6	2,939.3	2,902.2	2,687.0	2,756.4	2,550.7	2,843.4	2,809.4	-
Computer and data processing services .....	737	1,496.6	1,509.0	1,679.8	1,692.7	1,706.5	1,193.4	1,204.2	1,347.1	1,359.2	-
Computer programming services .....	7371	343.2	348.9	386.2	389.0	-	292.8	297.9	330.1	332.4	-
Prepackaged software .....	7372	245.8	249.6	280.2	282.9	-	-	-	-	-	-
Computer integrated systems design .....	7373	170.4	173.3	191.5	192.5	-	119.5	120.9	139.3	141.4	-
Data processing and preparation .....	7374	261.0	259.6	284.1	287.1	-	-	-	-	-	-
Information retrieval services .....	7375	85.3	86.5	97.9	99.8	-	60.5	61.0	73.4	75.7	-
Computer maintenance and repair .....	7378	58.6	57.7	59.2	59.2	-	40.1	39.5	43.4	43.5	-
Miscellaneous business services .....	738	1,778.4	1,769.0	1,881.4	1,890.3	-	1,549.3	1,539.3	1,636.5	1,645.2	-
Detective and armored car services .....	7381	591.7	590.7	624.1	625.2	-	546.0	544.6	574.1	575.2	-
Security systems services .....	7382	61.4	59.9	59.5	60.2	-	52.2	49.8	48.7	48.8	-
Photofinishing laboratories .....	7384	82.1	77.7	86.2	86.0	-	-	-	-	-	-
Auto repair, services, and parking .....	75	1,138.3	1,133.4	1,172.1	1,172.8	1,168.1	930.4	925.1	947.5	945.4	-
Automotive rentals, without drivers .....	751	200.5	199.1	210.9	210.7	-	164.2	162.0	172.5	171.3	-
Passenger car rental .....	7514	133.7	133.0	139.8	140.1	-	110.7	109.9	115.1	114.8	-
Automobile parking .....	752	74.7	73.7	77.2	77.4	-	65.2	64.2	67.0	67.4	-
Automotive repair shops .....	753	625.4	623.1	642.5	641.9	-	498.4	495.9	501.3	499.0	-
Automotive and tire repair shops .....	7532,4	219.6	217.9	226.8	226.7	-	179.1	178.0	184.2	184.3	-
General automotive repair shops .....	7538	267.0	266.6	270.7	271.0	-	210.9	209.7	203.1	202.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Services—Continued</b>											
Auto repair, services, and parking—Continued											
Automotive services, except repair .....	754	237.7	237.5	241.5	242.8	—	202.6	203.0	206.7	207.7	—
Carwashes .....	7542	124.2	124.5	126.5	127.7	—	109.5	110.2	112.3	113.2	—
Miscellaneous repair services .....	76	379.4	375.6	391.2	392.8	390.1	311.1	307.0	320.1	321.4	—
Electrical repair shops .....	762	115.8	114.3	118.6	119.3	—	—	—	—	—	—
Motion pictures .....	78	567.8	561.4	557.5	570.0	563.0	475.2	469.2	464.8	478.3	—
Motion picture production and services .....	781	241.6	237.1	244.1	245.6	—	202.4	197.9	203.6	205.2	—
Motion picture theaters .....	783	132.2	131.3	125.9	131.3	—	—	—	—	—	—
Video tape rental .....	784	174.6	172.9	169.5	174.4	—	140.4	139.3	136.6	141.9	—
Amusement and recreation services .....	79	1,455.6	1,394.9	1,563.9	1,555.0	1,493.2	1,256.8	1,195.4	1,349.7	1,337.6	—
Bowling centers .....	793	84.4	84.0	83.1	83.9	—	75.4	75.1	74.2	75.0	—
Misc. amusement and recreation services .....	799	1,036.4	1,001.5	1,112.4	1,114.4	—	893.6	860.4	956.2	959.2	—
Physical fitness facilities .....	7991	170.6	171.0	184.5	185.6	—	152.2	152.1	162.8	164.5	—
Membership sports and recreation clubs .....	7997	297.2	264.2	328.5	323.0	—	258.0	225.8	285.1	279.9	—
Health services .....	80	9,844.8	9,812.3	9,963.6	9,977.0	9,938.8	8,723.3	8,696.3	8,817.4	8,829.3	—
Offices and clinics of medical doctors .....	801	1,785.3	1,780.0	1,847.4	1,851.7	1,850.3	1,467.8	1,465.7	1,517.1	1,520.7	—
Offices and clinics of dentists .....	802	635.8	633.5	651.1	654.5	—	554.9	552.1	567.2	570.1	—
Offices and clinics of other health practitioners .....	804	454.3	453.4	469.1	469.2	—	377.5	375.8	389.5	389.7	—
Offices and clinics of chiropractors and optometrists .....	8041,2	168.4	166.9	169.5	170.5	—	—	—	—	—	—
Nursing and personal care facilities .....	805	1,765.5	1,753.2	1,756.2	1,754.6	1,745.4	1,586.8	1,576.4	1,578.2	1,576.4	—
Skilled nursing care facilities .....	8051	1,339.7	1,329.0	1,333.8	1,332.8	—	—	—	—	—	—
Intermediate care facilities .....	8052	207.8	207.5	208.0	208.2	—	186.4	186.3	186.7	187.0	—
Nursing and personal care, nec .....	8059	218.0	216.7	214.4	213.6	—	—	—	—	—	—
Hospitals .....	806	3,910.3	3,910.3	3,979.8	3,984.4	3,975.9	3,584.3	3,584.2	3,644.1	3,650.0	—
General medical and surgical hospitals .....	8062	3,603.4	3,605.0	3,665.8	3,670.3	—	—	—	—	—	—
Psychiatric hospitals .....	8063	84.7	83.7	86.7	86.7	—	—	—	—	—	—
Specialty hospitals, excluding psychiatric .....	8069	222.2	221.6	227.3	227.4	—	—	—	—	—	—
Medical and dental laboratories .....	807	199.4	200.0	203.5	204.2	—	—	—	—	—	—
Home health care services .....	808	714.7	702.5	666.0	664.8	651.5	658.5	648.3	614.0	612.1	—
Legal services .....	81	962.5	959.6	993.2	995.7	992.7	767.5	764.7	793.2	795.1	—
Educational services .....	82	2,273.3	2,122.2	2,423.4	2,371.5	2,202.3	—	—	—	—	—
Elementary and secondary schools .....	821	655.3	651.1	687.4	687.9	—	—	—	—	—	—
Colleges and universities .....	822	1,351.1	1,209.5	1,449.4	1,398.7	—	—	—	—	—	—
Vocational schools .....	824	85.4	83.8	92.3	91.2	—	—	—	—	—	—
Social services .....	83	2,567.4	2,551.8	2,682.4	2,688.8	2,673.8	2,225.2	2,207.0	2,323.5	2,327.7	—
Individual and family services .....	832	689.5	681.6	724.4	729.8	—	597.2	589.4	629.3	634.0	—
Job training and related services .....	833	355.9	356.3	379.0	379.6	—	305.4	304.9	328.1	328.0	—
Child day care services .....	835	583.2	580.7	600.8	599.3	597.0	517.1	513.9	531.0	529.0	—
Residential care .....	836	734.9	731.5	762.5	765.3	763.3	638.4	634.4	660.4	662.9	—
Social services, nec .....	839	203.9	201.7	215.7	214.8	—	167.1	164.4	174.7	173.8	—
Museums and botanical and zoological gardens .....	84	88.5	82.7	91.1	91.2	86.0	—	—	—	—	—
Membership organizations .....	86	2,242.9	2,222.4	2,265.1	2,270.5	2,248.5	—	—	—	—	—
Business associations .....	861	108.1	107.1	110.4	111.2	—	—	—	—	—	—
Professional organizations .....	862	59.9	60.2	62.6	62.7	—	43.1	43.5	45.4	45.4	—
Labor organizations .....	863	145.0	137.2	141.0	144.9	—	—	—	—	—	—
Civic and social associations .....	864	436.2	425.0	448.5	449.8	—	—	—	—	—	—
Engineering and management services .....	87	3,097.4	3,109.0	3,307.7	3,322.8	3,333.3	2,358.2	2,366.4	2,519.0	2,521.9	—
Engineering and architectural services .....	871	889.7	887.6	930.8	931.3	930.2	731.1	727.7	764.9	764.6	—
Engineering services .....	8711	683.3	681.1	708.9	708.0	—	568.0	565.1	589.4	588.0	—
Architectural services .....	8712	149.9	150.5	161.2	162.1	—	117.1	117.2	126.0	126.7	—
Surveying services .....	8713	56.5	56.0	60.7	61.2	—	46.0	45.4	49.5	49.9	—
Accounting, auditing, and bookkeeping .....	872	612.9	629.5	647.2	652.6	—	425.0	441.7	455.1	455.7	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Services—Continued</b>											
Engineering and management services—Continued											
Research and testing services .....	873	608.4	601.7	638.9	643.1	—	464.7	458.6	489.3	491.8	—
Commercial physical research .....	8731	229.7	230.3	238.9	239.1	—	158.8	159.8	165.4	164.6	—
Commercial nonphysical research .....	8732	139.8	134.8	150.6	154.4	—	115.9	111.5	125.6	129.1	—
Noncommercial research organizations .....	8733	144.4	142.3	152.0	152.1	—	113.1	111.1	119.1	118.8	—
Management and public relations .....	874	986.4	990.2	1,090.8	1,095.8	1,093.2	737.4	738.4	809.7	809.8	—
Management services .....	8741	325.7	328.5	365.8	369.7	—	239.7	242.8	272.3	273.7	—
Management consulting services .....	8742	354.7	356.9	399.9	399.8	—	265.2	264.8	293.4	291.3	—
Public relations services .....	8743	41.0	41.3	45.7	45.9	—	27.6	28.0	30.7	30.4	—
Services, nec .....	89	51.5	50.6	54.7	54.5	55.0	40.7	39.8	43.0	42.9	—
<b>Government</b> .....		20,046	19,614	20,456	20,387	19,968	—	—	—	—	—
<b>Federal Government<sup>4</sup></b> .....		2,720	2,654	2,717	2,740	2,682	—	—	—	—	—
Executive, by agency <sup>4</sup> .....		2,659.1	2,593.0	2,655.8	—	—	—	—	—	—	—
Department of Defense .....		679.0	673.5	653.7	—	—	—	—	—	—	—
Postal Service <sup>5</sup> .....		917.0	854.4	888.2	—	—	—	—	—	—	—
Other executive agencies .....		1,063.1	1,065.1	1,113.9	—	—	—	—	—	—	—
Legislative .....		30.9	30.9	30.2	—	—	—	—	—	—	—
Judicial .....		30.1	30.2	31.1	—	—	—	—	—	—	—
Federal Government, except Postal Service .....		1,803.1	1,799.7	1,828.9	1,802.8	1,793.2	—	—	—	—	—
Federal Government, by industry:											
Manufacturing activities .....		48.1	48.0	46.7	46.5	—	—	—	—	—	—
Ship building and repairing .....	3731	21.8	21.9	21.7	21.6	—	—	—	—	—	—
Transportation and public utilities, except Postal Service .....		12.7	12.5	12.2	12.2	—	—	—	—	—	—
Services .....		358.4	355.7	349.4	350.0	—	—	—	—	—	—
Hospitals .....	806	222.2	221.0	217.7	219.2	—	—	—	—	—	—
State government .....		4,691	4,547	4,811	4,768	4,619	—	—	—	—	—
Construction .....		86.5	86.6	87.0	87.2	—	—	—	—	—	—
Transportation and public utilities .....		51.8	51.6	51.8	51.4	—	—	—	—	—	—
Services .....		2,745.1	2,595.2	2,828.4	2,787.0	—	—	—	—	—	—
Hospitals .....	806	364.9	365.1	365.5	366.8	—	—	—	—	—	—
Education .....	82	2,032.2	1,881.9	2,105.4	2,064.9	1,909.1	—	—	—	—	—
Social services .....		205.6	205.6	210.2	211.0	—	—	—	—	—	—
Services, except hospitals, education, and social services .....		142.4	142.6	147.3	144.3	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		1,807.4	1,813.3	1,844.0	1,842.6	—	—	—	—	—	—
State government, except education .....		2,658.6	2,664.8	2,705.8	2,703.3	2,709.6	—	—	—	—	—
Local government .....		12,635	12,413	12,928	12,879	12,667	—	—	—	—	—
Transportation and public utilities .....		455.0	453.8	453.3	454.6	—	—	—	—	—	—
Services .....		8,443.0	8,251.8	8,648.2	8,635.7	—	—	—	—	—	—
Hospitals .....	806	644.7	644.3	656.8	658.2	—	—	—	—	—	—
Education .....	82	7,309.2	7,122.4	7,488.8	7,480.0	7,302.0	—	—	—	—	—
Social services .....		139.8	139.7	142.5	142.8	—	—	—	—	—	—
Services, except hospitals, education, and social services .....		349.3	345.4	360.1	354.7	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		3,737.1	3,707.1	3,826.4	3,788.2	—	—	—	—	—	—
Local government, except education .....		5,325.9	5,290.3	5,439.1	5,398.5	5,365.3	—	—	—	—	—

<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 \$253.7 million or more in 1993 and to Amtrak.

<sup>3</sup> Excludes nonoffice commissioned real estate sales agents.

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

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Oct. 1997	Nov. 1997	Sept. 1998	Oct. 1998	Nov. 1998
<b>Total</b> .....	60,316	60,710	61,093	61,686	62,053
<b>Total private</b> .....	49,159	49,433	50,086	50,290	50,515
<b>Goods-producing</b> .....	6,779	6,779	6,780	6,734	6,709
<b>Mining</b> .....	83	82	82	81	80
<b>Construction</b> .....	651	648	688	688	686
<b>Manufacturing</b> .....	6,045	6,049	6,010	5,965	5,943
<b>Durable goods</b> .....	2,950	2,967	2,952	2,942	2,937
Lumber and wood products .....	140.0	140.2	145.8	145.9	146.8
Furniture and fixtures .....	161.3	162.3	166.1	166.8	166.9
Stone, clay, and glass products .....	105.9	106.3	107.1	107.0	106.6
Primary metal industries .....	103.0	103.6	104.8	103.9	103.4
Fabricated metal products .....	330.7	332.1	336.9	337.0	336.3
Industrial machinery and equipment .....	478.2	481.0	469.3	469.1	468.1
Electronic and other electrical equipment .....	707.2	713.0	694.5	687.0	685.0
Transportation equipment .....	396.4	402.0	403.5	405.3	406.1
Instruments and related products .....	353.4	354.3	353.0	351.6	350.0
Miscellaneous manufacturing .....	174.2	171.9	170.6	168.8	168.1
<b>Nondurable goods</b> .....	3,095	3,082	3,058	3,023	3,006
Food and kindred products .....	574.8	565.2	594.6	573.7	568.3
Tobacco products .....	14.2	14.3	13.4	13.8	13.8
Textile mill products .....	284.2	283.3	276.8	273.8	271.4
Apparel and other textile products .....	606.3	597.8	559.7	548.0	537.5
Paper and allied products .....	168.0	168.2	165.7	165.2	163.6
Printing and publishing .....	702.5	707.7	705.0	707.2	709.1
Chemicals and allied products .....	330.6	330.1	333.3	332.2	332.2
Petroleum and coal products .....	24.6	24.6	23.6	23.6	23.7
Rubber and misc. plastics products .....	342.6	343.7	343.8	343.3	344.0
Leather and leather products .....	47.1	46.6	42.3	42.5	41.9
<b>Service-producing</b> .....	53,537	53,931	54,313	54,952	55,344
<b>Transportation and public utilities</b> .....	1,958	1,962	2,002	2,019	2,019
<b>Wholesale trade</b> .....	2,081	2,082	2,100	2,115	2,120
<b>Retail trade</b> .....	11,697	11,965	11,933	11,962	12,201
<b>Finance, insurance, and real estate</b> .....	4,492	4,502	4,622	4,636	4,648
<b>Services</b> .....	22,152	22,143	22,649	22,824	22,818
<b>Government</b> .....	11,157	11,277	11,007	11,396	11,538
Federal .....	1,132	1,141	1,134	1,140	1,146
State .....	2,419	2,438	2,384	2,467	2,483
Local .....	7,606	7,698	7,489	7,789	7,909

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

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

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

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

(In thousands)

State and area	Total			Mining			Construction		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Alabama</b> .....	1,885.8	1,902.3	1,908.7	10.0	9.6	9.5	96.0	101.5	101.7
Birmingham .....	470.3	479.1	481.0	3.1	3.0	2.9	27.7	29.6	29.6
Huntsville .....	176.3	176.4	177.4	(1)	(1)	(1)	5.8	6.4	6.3
Mobile .....	221.9	226.3	227.4	(1)	(1)	(1)	16.3	17.1	17.2
Montgomery .....	158.1	160.0	160.9	(1)	(1)	(1)	8.0	8.2	8.2
Tuscaloosa .....	80.7	83.6	83.5	2.7	2.6	2.6	5.6	6.3	6.2
<b>Alaska</b> .....	257.7	267.7	263.3	9.8	10.5	10.2	11.2	12.9	11.6
Anchorage .....	125.0	128.6	128.8	2.4	2.6	2.6	6.1	6.9	6.4
<b>Arizona</b> .....	2,053.5	2,129.1	2,139.0	14.2	13.1	13.0	132.3	143.3	143.9
Phoenix-Mesa .....	1,445.6	1,503.9	1,512.5	6.8	5.9	5.9	95.2	103.5	103.6
Tucson .....	321.5	329.8	331.9	2.4	2.3	2.3	19.9	21.3	21.7
<b>Arkansas</b> .....	1,118.0	1,137.7	1,135.0	3.5	3.6	3.5	47.2	50.3	49.5
Fayetteville-Springdale-Rogers .....	140.5	143.2	142.7	(1)	(1)	(1)	5.6	5.5	5.4
Fort Smith .....	96.6	97.1	96.8	.9	.8	.8	4.1	4.4	4.4
Little Rock-North Little Rock .....	307.4	309.5	309.1	(1)	(1)	(1)	14.1	14.9	14.8
Pine Bluff .....	35.9	36.1	36.4	(1)	(1)	(1)	.9	1.0	1.0
<b>California</b> .....	13,516.3	13,837.7	13,866.2	29.4	27.9	27.8	576.4	635.6	622.6
Bakersfield .....	182.3	184.9	184.7	10.9	10.2	10.1	8.3	8.4	8.3
Fresno .....	278.2	283.2	282.7	.5	.4	.4	13.5	15.0	15.0
Los Angeles-Long Beach .....	3,958.9	4,040.2	4,050.1	5.7	5.4	5.4	113.1	116.7	116.6
Modesto .....	135.8	139.5	139.6	(2)	(2)	(2)	6.9	7.6	7.4
Oakland .....	975.1	997.6	999.2	2.3	2.3	2.3	51.0	58.6	56.4
Orange County .....	1,262.6	1,300.6	1,304.9	.9	.8	.8	60.5	67.0	65.7
Riverside-San Bernardino .....	866.2	908.3	910.9	1.1	1.1	1.1	53.2	60.6	60.2
Sacramento .....	637.4	650.0	652.2	.2	.2	.2	33.2	37.6	35.9
Salinas .....	118.8	122.8	122.6	.1	.1	.1	4.8	5.5	5.5
San Diego .....	1,075.3	1,099.5	1,102.1	.4	.4	.4	54.9	56.5	56.7
San Francisco .....	1,007.9	1,023.5	1,026.2	.5	.5	.5	36.1	39.4	38.8
San Jose .....	955.3	959.7	962.4	.2	.2	.1	40.6	44.0	43.6
Santa Barbara-Santa Maria-Lompoc .....	153.8	157.7	157.1	1.1	.9	.9	6.6	7.2	7.2
Santa Rosa .....	168.5	173.3	174.2	.4	.5	.5	9.1	9.7	9.3
Stockton-Lodi .....	168.5	175.1	172.3	.1	.1	.1	7.3	8.5	8.0
Vallejo-Fairfield-Napa .....	154.1	160.1	159.6	.5	.6	.6	10.7	11.0	11.0
Ventura .....	249.7	257.3	259.1	1.6	1.4	1.4	11.5	12.4	12.7
<b>Colorado</b> .....	2,035.8	2,082.3	2,102.3	14.3	13.6	13.5	120.5	132.2	128.4
Boulder-Longmont .....	165.5	166.8	167.7	(1)	(1)	(1)	6.4	6.9	6.9
Colorado Springs .....	220.3	229.5	230.2	(1)	(1)	(1)	12.5	12.8	12.5
Denver .....	1,079.4	1,113.1	1,115.5	6.8	6.2	6.2	63.0	69.8	67.5
<b>Connecticut</b> .....	1,665.5	1,676.1	1,685.8	.8	.8	.8	57.9	62.2	60.9
Bridgeport .....	186.5	186.2	186.4	(2)	(2)	(2)	6.5	7.3	7.0
Danbury .....	88.7	88.9	89.9	(1)	(1)	(1)	3.6	3.9	3.8
Hartford .....	607.0	607.9	610.2	(1)	(1)	(1)	19.5	20.0	19.5
New Haven-Meriden .....	253.0	254.1	253.3	(1)	(1)	(1)	9.3	9.3	9.2
New London-Norwich .....	138.6	139.9	140.3	(1)	(1)	(1)	4.6	4.9	4.8
Stamford-Norwalk .....	210.2	211.2	212.4	(1)	(1)	(1)	6.0	5.8	5.6
Waterbury .....	89.2	90.0	90.8	(2)	(2)	(2)	3.4	3.9	3.7
<b>Delaware</b> .....	397.9	409.2	410.6	.1	.1	.1	22.7	24.1	23.9
Dover .....	54.4	57.3	58.0	.1	.1	.1	2.4	2.5	2.6
Wilmington-Newark .....	311.2	319.6	321.4	.2	.2	.2	17.5	18.5	18.4
<b>District of Columbia</b> .....	614.3	613.9	614.2	.1	.1	.1	8.6	8.3	8.2
Washington PMSA .....	2,524.9	2,585.6	2,594.6	1.0	1.2	1.1	127.2	136.6	135.9
<b>Florida</b> .....	6,637.3	6,810.7	6,866.9	6.5	7.0	7.0	341.6	357.1	357.2
Daytona Beach .....	153.6	156.4	157.4	(2)	(2)	(2)	7.8	7.9	8.0
Fort Lauderdale .....	649.2	658.8	665.5	.1	.1	.1	33.8	34.5	34.6
Fort Myers-Cape Coral .....	154.5	155.8	157.7	(2)	(2)	(2)	12.8	13.3	13.3
Gainesville .....	115.1	117.1	117.8	(2)	(2)	(2)	4.3	4.5	4.5
Jacksonville .....	533.6	551.5	555.6	(2)	(2)	(2)	28.8	28.8	28.9
Lakeland-Winter Haven .....	172.5	176.4	178.0	2.9	3.1	3.1	8.3	8.3	8.3
Melbourne-Titusville-Palm Bay .....	180.9	183.5	184.8	(2)	(2)	(2)	9.2	10.0	9.9
Miami .....	981.5	998.5	1,002.0	.3	.3	.3	34.2	35.4	35.4
Orlando .....	823.5	853.4	861.7	(2)	(2)	(2)	44.9	48.0	48.0
Pensacola .....	154.3	157.7	159.1	(2)	(2)	(2)	11.0	11.2	11.3
Sarasota-Bradenton .....	265.2	278.5	282.2	(2)	(2)	(2)	12.9	13.5	13.4
Tallahassee .....	149.7	152.0	152.9	(2)	(2)	(2)	5.8	5.6	5.5
Tampa-St. Petersburg-Clearwater .....	1,103.3	1,140.6	1,151.4	.4	.4	.4	53.6	55.6	56.8
West Palm Beach-Boca Raton .....	457.3	469.3	476.9	(2)	(2)	(2)	26.0	27.1	27.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Alabama</b> .....	380.4	368.9	370.6	91.1	91.6	91.9	439.8	444.4	449.0
Birmingham .....	50.8	50.0	50.3	30.2	30.8	30.9	115.1	117.7	119.5
Huntsville .....	40.6	39.0	38.8	3.7	3.3	3.3	36.2	36.3	37.4
Mobile .....	27.8	27.8	27.9	13.4	13.6	13.6	59.3	60.0	60.5
Montgomery .....	17.6	17.7	17.9	6.4	6.6	6.6	38.2	38.1	38.9
Tuscaloosa .....	12.0	12.5	12.6	2.5	2.6	2.6	19.2	19.5	19.6
<b>Alaska</b> .....	8.1	10.8	8.0	23.0	24.0	23.8	55.1	56.1	56.3
Anchorage .....	1.8	1.9	1.8	12.2	12.8	12.9	31.3	31.6	32.1
<b>Arizona</b> .....	213.0	216.6	217.3	98.7	101.9	103.2	505.5	513.2	521.4
Phoenix-Mesa .....	166.4	169.0	169.4	73.4	76.9	78.0	358.6	363.7	370.8
Tucson .....	28.4	29.5	29.4	13.2	13.7	13.8	70.9	72.5	73.2
<b>Arkansas</b> .....	254.3	253.5	253.7	68.1	68.9	69.3	256.4	259.3	260.5
Fayetteville-Springdale-Rogers .....	34.0	33.6	33.5	9.5	9.9	9.9	39.9	41.3	41.1
Fort Smith .....	27.5	27.0	27.1	6.7	6.5	6.5	20.1	19.9	19.9
Little Rock-North Little Rock .....	33.4	33.0	32.8	21.4	21.6	21.7	71.8	72.1	72.4
Pine Bluff .....	8.1	8.4	8.5	1.9	1.8	1.8	7.4	7.3	7.4
<b>California</b> .....	1,935.2	1,937.6	1,931.8	678.8	689.8	691.1	3,196.0	3,205.1	3,251.4
Bakersfield .....	9.9	10.6	10.3	10.2	10.7	10.8	43.9	43.5	44.0
Fresno .....	29.6	30.3	29.8	14.4	14.8	14.7	69.4	69.4	70.3
Los Angeles-Long Beach .....	673.6	681.1	681.5	214.9	219.9	220.4	890.6	894.3	908.4
Modesto .....	25.2	26.6	26.4	5.6	6.0	6.0	35.7	35.6	35.9
Oakland .....	120.7	119.8	120.0	61.8	62.8	63.3	222.8	224.7	228.0
Orange County .....	226.9	233.7	234.3	46.2	48.6	48.5	321.7	325.4	331.0
Riverside-San Bernardino .....	107.4	114.1	114.4	44.4	46.6	47.0	227.6	235.0	237.7
Sacramento .....	46.9	46.2	46.0	25.6	26.2	26.4	143.4	142.9	144.7
Salinas .....	8.6	8.9	8.9	5.8	5.9	5.8	32.3	32.9	33.2
San Diego .....	124.0	124.3	124.5	42.4	42.2	42.4	249.9	253.9	257.1
San Francisco .....	78.1	76.9	76.5	80.0	80.2	80.0	215.5	213.3	215.8
San Jose .....	260.5	250.3	249.8	28.7	29.0	29.3	194.9	194.0	197.4
Santa Barbara-Santa Maria-Lompoc .....	17.0	17.0	16.8	5.9	5.8	5.9	37.4	37.7	38.3
Santa Rosa .....	25.8	26.2	25.9	6.4	6.5	6.8	42.9	43.7	44.3
Stockton-Lodi .....	22.3	24.3	23.2	10.7	11.3	11.2	42.0	42.3	42.3
Vallejo-Fairfield-Napa .....	18.1	19.3	19.0	6.1	6.4	6.3	40.6	41.1	41.5
Ventura .....	33.2	34.2	33.9	9.8	10.2	10.3	61.9	62.6	63.7
<b>Colorado</b> .....	208.2	207.4	206.8	122.4	128.0	129.0	502.0	511.3	521.9
Boulder-Longmont .....	32.9	33.0	33.1	3.9	4.1	4.0	36.7	36.7	37.6
Colorado Springs .....	27.5	29.0	28.8	12.1	12.2	12.3	50.3	51.9	52.6
Denver .....	94.0	93.7	93.6	85.0	88.5	89.5	266.7	275.0	278.5
<b>Connecticut</b> .....	278.2	276.6	276.3	76.5	77.0	77.7	374.4	369.0	377.2
Bridgeport .....	40.0	39.4	39.3	7.2	7.1	7.1	42.7	42.4	43.1
Danbury .....	19.0	18.3	18.4	2.5	2.8	2.8	23.4	22.8	23.1
Hartford .....	93.9	94.3	94.3	27.4	27.7	27.9	128.9	126.4	129.0
New Haven-Meriden .....	39.4	39.2	39.2	16.3	16.7	16.7	54.2	54.0	54.2
New London-Norwich .....	24.4	24.1	24.0	6.4	6.6	6.6	29.0	29.1	29.4
Stamford-Norwalk .....	27.4	26.6	26.3	10.1	9.8	9.8	48.3	48.0	49.2
Waterbury .....	19.3	18.9	19.0	3.6	3.5	3.6	19.7	19.7	20.2
<b>Delaware</b> .....	58.6	59.4	59.5	15.8	16.4	16.3	87.9	89.4	90.4
Dover .....	6.0	6.3	6.3	1.9	2.1	2.1	13.4	13.5	14.0
Wilmington-Newark .....	44.1	45.2	45.2	14.0	14.3	14.3	64.1	64.9	65.9
<b>District of Columbia</b> .....	12.7	12.9	12.9	17.6	16.6	16.7	50.3	48.9	49.7
Washington PMSA .....	100.3	102.2	102.4	112.2	113.8	113.3	490.2	486.6	493.6
<b>Florida</b> .....	494.8	492.1	493.1	337.5	344.3	351.3	1,730.3	1,744.0	1,780.4
Daytona Beach .....	14.5	14.8	14.8	4.5	4.6	4.6	43.8	44.3	45.0
Fort Lauderdale .....	40.5	40.5	40.6	32.0	31.6	32.4	186.3	187.4	191.6
Fort Myers-Cape Coral .....	6.8	7.0	7.0	7.1	7.0	7.2	45.1	44.8	46.0
Gainesville .....	5.5	5.1	5.1	2.5	2.7	2.8	25.2	25.7	26.2
Jacksonville .....	38.2	39.3	39.5	37.3	37.5	38.0	133.2	136.4	138.1
Lakeland-Winter Haven .....	21.1	20.9	21.0	8.9	9.1	9.2	50.0	52.0	52.9
Melbourne-Titusville-Palm Bay .....	28.1	28.9	29.0	5.5	5.7	5.7	43.1	43.5	44.2
Miami .....	74.3	72.3	72.5	84.9	86.5	87.5	266.5	266.6	272.4
Orlando .....	53.5	54.2	54.4	42.5	43.3	43.8	208.5	213.2	217.8
Pensacola .....	10.9	10.7	10.8	7.4	7.8	7.9	39.7	41.4	42.0
Sarasota-Bradenton .....	20.9	21.9	21.9	5.3	5.5	5.6	62.9	63.9	65.4
Tallahassee .....	5.1	5.0	5.1	4.3	4.4	4.4	30.9	30.8	31.3
Tampa-St. Petersburg-Clearwater .....	87.8	87.5	87.8	49.6	51.7	52.0	269.1	271.3	274.4
West Palm Beach-Boca Raton .....	31.5	32.2	32.1	16.9	17.3	17.6	119.6	120.4	124.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Alabama</b> .....	85.0	87.2	88.2	434.5	444.0	443.9	349.0	355.1	353.9
Birmingham .....	34.8	36.4	36.5	139.0	142.0	141.5	69.6	69.6	69.8
Huntsville .....	4.7	4.7	4.7	46.6	48.9	49.1	38.7	37.8	37.8
Mobile .....	10.0	10.1	10.3	60.3	61.7	61.9	34.8	36.0	36.0
Montgomery .....	9.3	9.4	9.4	41.7	42.2	42.2	36.9	37.8	37.7
Tuscaloosa .....	2.5	2.7	2.7	13.6	14.5	14.2	22.6	22.9	23.0
<b>Alaska</b> .....	12.1	12.3	12.3	64.1	66.4	66.3	74.3	74.7	74.8
Anchorage .....	7.2	7.3	7.3	35.2	36.4	36.5	28.8	29.1	29.2
<b>Arizona</b> .....	130.9	136.5	138.1	620.4	643.5	646.7	338.5	361.0	355.4
Phoenix-Mesa .....	111.1	117.4	119.1	451.7	471.4	475.0	182.4	196.1	190.7
Tucson .....	12.1	12.8	13.0	101.0	102.5	103.4	73.6	75.2	75.1
<b>Arkansas</b> .....	44.5	44.0	44.2	256.1	265.6	263.9	187.9	192.5	190.4
Fayetteville-Springdale-Rogers .....	4.8	5.0	5.0	26.8	27.6	27.6	19.9	20.3	20.2
Fort Smith .....	3.1	3.1	3.1	24.3	25.4	25.3	9.9	10.0	9.7
Little Rock-North Little Rock .....	17.5	17.0	17.1	89.5	90.8	90.2	59.7	60.1	60.1
Pine Bluff .....	1.3	1.3	1.3	8.5	8.5	8.5	7.8	7.8	7.9
<b>California</b> .....	767.3	788.6	790.6	4,153.8	4,312.6	4,317.9	2,179.4	2,240.5	2,233.0
Bakersfield .....	7.0	7.5	7.6	42.7	43.8	43.7	49.4	50.2	49.9
Fresno .....	13.7	13.4	13.5	71.6	72.2	71.6	65.5	67.7	67.4
Los Angeles-Long Beach .....	222.1	225.5	226.4	1,293.4	1,334.5	1,330.7	545.5	562.8	560.7
Modesto .....	4.6	4.5	4.5	32.4	33.6	33.5	25.4	25.6	25.9
Oakland .....	55.9	56.0	56.0	288.2	297.1	297.7	172.4	176.3	175.5
Orange County .....	93.0	95.3	95.9	376.2	387.7	387.4	137.2	142.1	141.3
Riverside-San Bernardino .....	30.7	31.7	31.9	227.3	238.3	238.9	174.5	180.9	179.7
Sacramento .....	42.5	43.7	44.1	175.8	181.9	183.7	169.8	171.3	171.2
Salinas .....	5.6	6.0	6.0	33.0	34.2	34.1	28.6	29.3	29.0
San Diego .....	61.9	62.6	62.7	344.4	358.9	358.3	197.4	200.7	200.0
San Francisco .....	103.3	105.6	105.9	371.4	379.9	380.2	123.0	127.7	128.5
San Jose .....	31.1	31.6	31.8	310.1	319.0	319.6	89.2	91.6	90.8
Santa Barbara-Santa Maria-Lompoc .....	7.4	7.6	7.6	47.1	49.1	48.4	31.3	32.4	32.0
Santa Rosa .....	9.5	10.0	10.1	48.4	49.8	50.5	26.0	26.9	26.8
Stockton-Lodi .....	8.7	8.6	8.7	42.6	44.3	44.0	34.8	35.7	34.8
Vallejo-Fairfield-Napa .....	6.2	6.4	6.4	40.4	42.7	42.5	31.5	32.6	32.3
Ventura .....	13.7	14.5	14.5	73.7	76.9	77.0	44.3	45.1	45.6
<b>Colorado</b> .....	130.5	133.4	134.9	615.3	625.1	638.6	322.6	331.3	329.2
Boulder-Longmont .....	5.5	5.7	5.7	53.0	52.8	53.1	27.1	27.6	27.3
Colorado Springs .....	11.6	12.2	12.2	71.0	75.5	76.1	35.3	35.9	35.7
Denver .....	85.9	89.2	89.4	329.8	341.0	341.5	148.2	149.7	149.3
<b>Connecticut</b> .....	133.8	136.0	136.7	511.6	521.5	523.3	232.3	233.0	232.9
Bridgeport .....	10.4	10.3	10.3	58.6	58.6	58.6	21.1	21.1	21.0
Danbury .....	4.8	5.1	5.2	24.8	25.3	25.5	10.6	10.7	11.1
Hartford .....	68.7	68.8	69.2	173.2	173.9	174.0	95.4	96.8	96.3
New Haven-Meriden .....	12.8	12.8	12.8	89.8	90.4	90.0	31.2	31.7	31.2
New London-Norwich .....	3.7	3.9	3.9	34.3	34.8	35.1	36.2	36.5	36.5
Stamford-Norwalk .....	25.4	26.6	26.8	74.7	76.3	76.7	18.3	18.1	18.0
Waterbury .....	4.4	4.2	4.2	26.5	27.3	27.5	12.3	12.5	12.6
<b>Delaware</b> .....	48.2	49.6	49.6	109.9	114.8	115.0	54.7	55.4	55.8
Dover .....	2.6	2.8	2.8	12.4	13.2	13.1	15.7	16.9	17.1
Wilmington-Newark .....	42.0	43.0	43.1	89.9	94.1	94.7	39.4	39.4	39.6
<b>District of Columbia</b> .....	28.5	28.8	28.9	267.7	274.2	273.1	228.8	224.1	224.6
Washington PMSA .....	134.5	135.4	136.1	966.6	1,009.2	1,010.7	592.9	600.6	601.5
<b>Florida</b> .....	420.6	433.3	434.0	2,335.5	2,440.5	2,457.2	970.5	992.4	986.7
Daytona Beach .....	6.6	6.6	6.7	52.5	53.9	54.0	23.9	24.3	24.3
Fort Lauderdale .....	46.2	46.8	47.1	224.5	232.3	233.8	85.8	85.6	85.3
Fort Myers-Cape Coral .....	9.2	9.3	9.4	47.8	47.9	48.4	25.6	26.4	26.3
Gainesville .....	5.2	5.3	5.3	33.0	34.2	34.3	39.4	39.6	39.6
Jacksonville .....	53.1	55.7	56.1	173.2	183.8	184.6	69.4	69.6	70.0
Lakeland-Winter Haven .....	7.8	8.3	8.3	47.6	48.7	49.1	25.9	26.0	26.1
Melbourne-Titusville-Palm Bay .....	6.0	6.0	6.0	63.8	63.9	64.3	25.2	25.5	25.7
Miami .....	68.3	67.9	68.0	316.1	327.0	329.1	136.9	142.5	136.8
Orlando .....	47.6	49.3	49.7	339.3	355.2	357.4	86.8	89.8	90.2
Pensacola .....	6.1	6.5	6.6	49.8	50.8	51.2	29.1	29.0	29.1
Sarasota-Bradenton .....	11.7	12.0	12.0	127.9	137.8	139.9	23.5	23.8	23.9
Tallahassee .....	5.7	5.8	5.8	38.6	40.0	40.0	59.1	60.2	60.6
Tampa-St. Petersburg-Clearwater .....	78.1	81.6	82.2	429.2	454.2	459.0	135.5	138.3	138.8
West Palm Beach-Boca Raton .....	31.2	31.5	31.8	176.9	185.1	187.7	55.2	55.7	56.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	December 1997	November 1998	December 1998P	December 1997	November 1998	December 1998P	December 1997	November 1998	December 1998P
<b>Georgia</b> .....	3,731.1	3,809.7	3,826.4	8.2	8.8	8.9	175.8	186.8	187.1
Albany .....	60.9	60.6	60.7	(2)	(2)	(2)	3.9	3.9	3.7
Athens .....	73.2	75.9	75.9	(1)	(1)	(1)	2.7	2.5	2.6
Atlanta .....	2,028.0	2,072.5	2,081.6	1.7	1.7	1.7	99.2	103.5	104.2
Augusta-Aiken .....	194.5	197.5	197.8	.4	.4	.4	10.9	11.4	11.5
Columbus .....	117.2	118.9	119.4	(1)	(1)	(1)	5.3	5.5	5.5
Macon .....	151.6	153.6	153.6	1.2	1.3	1.3	6.4	6.8	6.7
Savannah .....	134.1	135.2	135.9	(1)	(1)	(1)	7.5	8.1	8.2
<b>Hawaii</b> .....	537.4	526.8	529.1	(1)	(1)	(1)	22.1	20.3	20.1
Honolulu .....	407.8	398.3	400.1	(1)	(1)	(1)	17.0	15.4	15.1
<b>Idaho</b> .....	515.7	529.0	526.2	3.0	3.1	3.0	31.1	33.4	30.5
Boise City .....	198.7	204.4	202.3	(1)	(1)	(1)	13.0	13.8	13.1
<b>Illinois</b> .....	5,881.9	5,949.3	5,961.4	11.6	11.3	11.2	238.3	251.9	242.2
Bloomington-Normal .....	81.9	83.8	84.3	(1)	(1)	(1)	2.6	2.8	2.7
Champaign-Urbana .....	99.8	100.7	100.6	(1)	(1)	(1)	3.1	3.4	3.1
Chicago .....	4,114.0	4,158.4	4,157.2	1.6	1.8	1.7	161.4	168.8	162.8
Davenport-Moline-Rock Island .....	183.9	183.5	183.6	(1)	(1)	(1)	9.8	9.8	9.3
Decatur .....	57.5	57.8	57.7	(1)	(1)	(1)	3.6	4.0	3.7
Kankakee .....	44.3	44.1	44.1	(1)	(1)	(1)	2.1	2.1	2.0
Peoria-Pekin .....	174.3	175.0	174.8	(1)	(1)	(1)	8.1	8.3	8.0
Rockford .....	180.1	176.7	176.4	(1)	(1)	(1)	6.6	7.0	6.6
Springfield .....	114.6	114.1	113.7	(1)	(1)	(1)	5.0	5.1	4.8
<b>Indiana</b> .....	2,912.6	2,923.6	2,924.7	6.7	6.6	6.5	140.8	143.0	138.0
Bloomington .....	67.1	65.9	65.6	(1)	(1)	(1)	3.3	3.2	3.2
Elkhart-Goshen .....	116.2	118.1	118.1	(1)	(1)	(1)	4.8	4.9	4.8
Evansville-Henderson .....	154.6	156.3	156.2	1.3	1.3	1.3	9.5	10.4	9.8
Fort Wayne .....	272.2	272.7	272.8	(1)	(1)	(1)	13.1	14.1	13.8
Gary .....	267.5	269.4	270.3	(1)	(1)	(1)	17.4	17.9	17.5
Indianapolis .....	846.2	867.4	869.0	.8	.8	.8	47.1	50.6	50.4
Kokomo .....	53.5	54.8	54.9	(1)	(1)	(1)	2.3	2.7	2.6
Lafayette .....	94.4	97.1	96.4	(1)	(1)	(1)	3.8	4.1	4.0
Muncie .....	61.7	61.5	61.6	(1)	(1)	(1)	2.2	2.2	2.1
South Bend .....	135.7	137.5	137.6	(1)	(1)	(1)	7.5	7.0	6.9
Terre Haute .....	69.5	68.6	69.9	.2	.3	.3	3.2	3.1	3.0
<b>Iowa</b> .....	1,431.8	1,461.9	1,464.4	2.0	2.1	2.0	58.9	64.6	60.6
Cedar Rapids .....	116.1	115.8	116.6	(1)	(1)	(1)	6.2	6.3	6.3
Des Moines .....	272.0	275.3	275.5	(1)	(1)	(1)	11.0	12.6	12.3
Dubuque .....	52.5	52.6	52.9	(1)	(1)	(1)	1.8	1.9	1.8
Iowa City .....	67.9	68.8	68.0	(1)	(1)	(1)	2.1	2.7	2.3
Sioux City .....	66.3	66.4	66.3	(1)	(1)	(1)	3.8	4.0	3.9
Waterloo-Cedar Falls .....	73.0	74.7	74.0	(1)	(1)	(1)	2.6	2.8	2.7
<b>Kansas</b> .....	1,295.9	1,329.6	1,327.2	8.3	7.9	8.0	57.5	62.9	61.7
Lawrence .....	48.8	50.2	49.9	(1)	(1)	(1)	2.0	2.3	2.2
Topeka .....	100.1	100.6	100.9	(1)	(1)	(1)	4.3	5.0	4.7
Wichita .....	281.3	286.2	286.0	1.4	1.4	1.4	14.0	14.5	14.4
<b>Kentucky</b> .....	1,748.3	1,776.0	1,775.5	22.5	22.2	22.1	82.9	88.6	86.5
Lexington .....	277.6	285.0	284.4	.3	.2	.2	13.2	13.8	13.7
Louisville .....	564.1	579.3	581.1	.5	.6	.6	30.0	31.8	31.6
Owensboro .....	44.4	44.8	44.9	.3	.3	.3	3.5	3.7	3.6
<b>Louisiana</b> .....	1,881.7	1,901.0	1,904.9	55.7	53.2	53.2	117.3	125.8	125.3
Alexandria .....	54.2	55.7	55.9	.1	.1	.1	3.3	3.5	3.5
Baton Rouge .....	287.0	297.1	296.7	.9	1.0	1.0	31.7	34.7	34.0
Houma .....	76.7	77.7	77.8	7.6	6.8	6.7	3.7	3.8	3.8
Lafayette .....	164.1	167.9	168.4	15.8	15.3	15.3	9.9	10.7	10.6
Lake Charles .....	86.2	86.0	86.9	1.3	1.3	1.3	10.4	10.3	10.4
Monroe .....	69.5	69.1	69.1	.2	.2	.2	3.6	3.5	3.5
New Orleans .....	623.9	624.1	626.6	15.2	15.7	15.5	31.1	32.1	32.1
Shreveport-Bossier City .....	173.7	176.3	176.9	2.5	2.5	2.5	9.9	10.6	10.5
<b>Maine</b> .....	567.0	579.6	577.0	.1	.1	.1	24.6	27.5	26.5
Lewiston-Auburn .....	43.5	43.7	43.9	(2)	(2)	(2)	1.8	1.7	1.6
Portland .....	146.6	144.0	144.7	(2)	(2)	(2)	7.1	7.4	7.3

See footnotes at end of table.



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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Georgia</b> .....	592.4	594.7	595.4	237.8	246.4	246.6	961.3	963.2	975.5
Albany .....	8.9	8.6	8.7	3.0	3.2	3.2	14.7	14.5	14.7
Athens .....	11.5	11.6	11.7	1.8	1.8	1.8	18.5	19.7	19.9
Atlanta .....	221.6	222.3	221.7	169.2	174.8	174.9	545.3	547.3	555.3
Augusta-Aiken .....	40.9	41.8	41.9	6.7	6.7	6.7	43.9	43.7	44.1
Columbus .....	21.9	21.2	21.3	4.1	4.1	4.1	27.4	27.8	28.1
Macon .....	20.6	20.3	20.2	5.4	5.4	5.4	35.6	34.3	34.6
Savannah .....	18.4	18.1	18.2	9.6	9.5	9.5	34.6	35.1	35.7
<b>Hawaii</b> .....	16.4	15.9	15.9	41.3	40.1	39.8	137.1	132.2	134.0
Honolulu .....	12.6	12.1	12.1	33.4	32.1	31.9	101.6	97.7	98.9
<b>Idaho</b> .....	76.0	76.9	75.6	24.4	25.3	25.5	132.0	133.3	134.1
Boise City .....	35.9	37.3	36.6	9.9	9.9	9.9	48.0	47.6	47.6
<b>Illinois</b> .....	982.1	975.5	973.9	344.2	348.4	348.4	1,375.3	1,367.6	1,385.8
Bloomington-Normal .....	8.8	8.8	8.8	3.0	2.9	2.9	17.9	18.3	18.4
Champaign-Urbana .....	11.9	11.4	11.2	2.7	2.7	2.7	22.2	22.0	22.1
Chicago .....	662.2	661.8	661.1	254.1	255.0	254.6	955.4	943.4	956.2
Davenport-Moline-Rock Island .....	31.3	31.2	31.2	9.9	10.0	10.0	49.4	48.7	49.3
Decatur .....	13.5	13.6	13.6	5.0	5.0	5.0	13.0	12.6	12.7
Kankakee .....	8.3	8.3	8.3	2.1	2.2	2.2	11.4	11.2	11.4
Peoria-Pekin .....	32.4	33.0	32.9	9.7	9.9	9.9	42.8	42.5	42.9
Rockford .....	53.7	51.5	51.4	9.8	9.7	9.7	38.7	37.7	38.2
Springfield .....	4.6	4.5	4.4	4.8	4.8	4.8	25.2	24.9	25.2
<b>Indiana</b> .....	680.7	682.0	683.0	142.2	143.2	143.6	700.4	694.6	698.5
Bloomington .....	10.4	9.3	9.3	1.8	1.9	1.8	16.1	15.9	16.2
Elkhart-Goshen .....	58.1	59.4	59.5	2.8	2.8	2.7	22.5	22.7	22.7
Evansville-Henderson .....	31.9	31.8	31.9	7.0	7.1	7.1	39.6	39.1	39.6
Fort Wayne .....	75.0	75.1	75.3	12.9	12.7	12.7	66.7	65.4	66.0
Gary .....	49.5	49.5	49.5	15.3	15.4	15.5	65.9	65.4	66.2
Indianapolis .....	128.1	129.8	129.7	51.8	52.7	53.0	223.9	223.6	225.5
Kokomo .....	21.3	21.3	21.2	1.2	1.2	1.2	11.6	11.7	11.8
Lafayette .....	22.2	22.2	22.3	2.2	2.3	2.3	19.7	19.9	20.2
Muncie .....	10.7	9.7	9.7	3.5	3.6	3.6	14.6	14.5	14.6
South Bend .....	22.7	22.9	22.8	5.6	5.6	5.5	34.5	34.3	34.5
Terre Haute .....	12.0	12.2	12.2	2.7	2.6	2.6	20.0	19.5	20.4
<b>Iowa</b> .....	257.0	260.0	260.1	67.1	69.5	69.7	354.3	355.4	359.1
Cedar Rapids .....	22.2	22.5	22.5	7.9	7.6	7.6	26.4	25.6	26.2
Des Moines .....	25.2	25.4	25.5	13.7	14.0	13.9	71.9	70.5	71.2
Dubuque .....	11.9	11.9	11.9	2.1	2.1	2.1	12.5	12.7	12.8
Iowa City .....	4.8	4.9	4.8	2.2	2.2	2.3	13.6	13.0	12.9
Sioux City .....	13.1	13.2	13.1	3.8	3.7	3.7	16.3	16.0	16.1
Waterloo-Cedar Falls .....	14.7	14.5	14.0	2.3	2.4	2.4	17.1	17.6	17.6
<b>Kansas</b> .....	209.0	212.7	212.5	72.8	75.4	75.3	318.9	326.4	328.0
Lawrence .....	5.3	5.3	5.3	1.4	1.3	1.3	12.4	12.4	12.5
Topeka .....	9.7	9.7	9.8	6.2	6.1	6.1	22.0	21.9	22.1
Wichita .....	72.3	74.3	74.2	11.0	11.3	11.3	63.1	63.6	63.9
<b>Kentucky</b> .....	318.4	315.0	315.5	100.5	103.5	103.6	426.4	430.1	434.3
Lexington .....	47.9	49.3	49.0	11.0	11.2	11.1	64.2	66.1	66.7
Louisville .....	89.5	89.8	89.7	43.0	44.7	44.7	142.6	144.6	147.1
Owensboro .....	7.0	7.2	7.0	2.3	2.4	2.4	11.5	11.3	11.6
<b>Louisiana</b> .....	191.3	191.4	190.8	112.4	114.9	115.2	444.9	444.1	449.9
Alexandria .....	3.4	3.7	3.7	2.7	2.7	2.7	12.6	13.2	13.3
Baton Rouge .....	25.0	25.2	25.2	12.6	13.2	13.3	68.7	71.0	72.4
Houma .....	7.8	7.9	7.8	8.1	8.8	8.9	17.5	17.8	17.9
Lafayette .....	14.9	15.1	15.1	10.2	10.4	10.5	42.7	43.0	43.3
Lake Charles .....	11.9	11.6	11.7	4.5	4.2	4.5	18.4	19.2	19.4
Monroe .....	7.9	7.8	7.8	3.7	3.5	3.5	17.7	17.7	18.0
New Orleans .....	49.2	49.2	49.2	42.7	42.1	42.2	154.4	153.3	155.0
Shreveport-Bossier City .....	19.3	19.3	19.5	8.4	8.6	8.6	40.8	41.0	41.4
<b>Maine</b> .....	89.2	87.6	87.1	23.7	24.1	24.3	144.8	147.3	146.7
Lewiston-Auburn .....	7.9	7.8	7.9	1.9	1.8	1.8	11.5	11.5	11.6
Portland .....	15.5	15.1	15.0	6.4	6.2	6.3	45.7	43.2	43.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Georgia</b> .....	192.4	198.5	199.2	973.2	1,009.4	1,010.2	590.0	601.9	603.5
Albany .....	2.1	2.2	2.2	15.6	15.5	15.5	12.7	12.7	12.7
Athens .....	2.2	2.2	2.2	15.5	15.1	15.0	21.0	23.0	22.7
Atlanta .....	131.6	133.5	133.9	599.9	623.2	623.9	259.5	266.2	266.0
Augusta-Aiken .....	6.1	5.8	5.8	45.8	47.4	47.4	39.8	40.3	40.0
Columbus .....	8.1	8.8	8.8	29.9	31.1	31.1	20.5	20.4	20.5
Macon .....	8.8	9.8	9.8	40.2	41.7	41.6	33.4	34.0	34.0
Savannah .....	4.4	4.3	4.3	38.9	39.3	39.1	20.7	20.8	20.9
<b>Hawaii</b> .....	35.8	34.8	34.7	170.0	170.0	169.6	114.7	113.5	115.0
Honolulu .....	28.6	27.8	27.7	122.1	122.0	121.9	92.5	91.2	92.5
<b>Idaho</b> .....	25.8	26.9	27.0	122.5	124.5	125.5	100.9	105.6	105.0
Boise City .....	11.4	12.3	12.3	49.9	51.4	51.2	30.6	32.1	31.6
<b>Illinois</b> .....	405.2	411.6	413.2	1,710.3	1,756.2	1,754.8	814.9	826.8	831.9
Bloomington-Normal .....	14.2	15.5	15.6	20.4	20.3	20.4	15.0	15.2	15.5
Champaign-Urbana .....	3.7	3.8	3.8	21.2	21.5	21.4	35.0	35.9	36.3
Chicago .....	316.5	321.8	323.1	1,274.8	1,313.8	1,308.1	488.0	492.0	489.6
Davenport-Moline-Rock Island .....	8.2	8.3	8.3	47.5	47.9	48.2	27.8	27.6	27.3
Decatur .....	2.1	2.0	2.1	13.5	13.9	14.1	6.8	6.7	6.5
Kankakee .....	1.7	1.7	1.7	11.5	11.7	11.8	7.2	6.9	6.7
Peoria-Pekin .....	8.0	8.0	8.2	54.0	53.5	53.5	19.3	19.8	19.4
Rockford .....	7.6	7.4	7.5	46.4	45.9	45.7	17.3	17.5	17.3
Springfield .....	7.9	7.8	7.8	33.0	33.2	33.1	34.1	33.8	33.6
<b>Indiana</b> .....	139.7	142.6	142.6	700.1	706.3	705.5	402.0	405.3	407.0
Bloomington .....	2.1	2.2	2.1	12.3	12.2	12.1	21.1	21.2	20.9
Elkhart-Goshen .....	3.1	3.3	3.4	18.0	18.1	18.0	6.9	6.9	7.0
Evansville-Henderson .....	7.5	7.8	7.9	43.5	43.6	43.4	14.3	15.2	15.2
Fort Wayne .....	14.9	14.4	14.4	61.8	62.5	62.2	27.8	28.5	28.4
Gary .....	9.5	9.4	9.5	72.3	73.3	73.2	37.6	38.5	38.9
Indianapolis .....	63.5	66.4	66.6	227.2	236.6	235.9	103.8	106.9	107.1
Kokomo .....	1.5	1.5	1.5	8.6	9.2	9.4	7.0	7.2	7.2
Lafayette .....	3.9	4.3	4.3	19.2	19.4	19.0	23.4	24.9	24.3
Muncie .....	1.8	1.9	1.9	16.5	17.4	17.3	12.4	12.2	12.4
South Bend .....	6.3	6.3	6.4	45.0	47.2	47.3	14.1	14.2	14.2
Terre Haute .....	2.2	2.3	2.3	17.0	16.6	17.0	12.2	12.0	12.1
<b>Iowa</b> .....	80.9	82.2	82.4	370.9	382.9	384.3	240.7	245.2	246.2
Cedar Rapids .....	6.2	6.5	6.5	35.7	35.7	36.0	11.5	11.6	11.5
Des Moines .....	38.0	39.1	38.6	77.8	80.2	80.4	34.4	33.5	33.6
Dubuque .....	1.8	1.9	1.9	18.6	18.2	18.5	3.8	3.9	3.9
Iowa City .....	1.9	2.1	2.1	14.4	14.8	14.8	28.9	29.1	28.8
Sioux City .....	2.6	2.6	2.6	19.0	19.2	19.2	7.7	7.7	7.7
Waterloo-Cedar Falls .....	3.3	3.2	3.3	19.8	20.8	20.7	13.2	13.4	13.3
<b>Kansas</b> .....	60.7	61.0	60.7	324.2	333.9	334.0	244.5	249.4	247.0
Lawrence .....	2.0	2.1	2.1	11.6	12.0	12.0	14.1	14.8	14.5
Topeka .....	6.9	6.7	6.8	28.3	29.0	29.2	22.7	22.2	22.2
Wichita .....	11.0	11.3	11.4	74.1	75.0	74.8	34.4	34.8	34.6
<b>Kentucky</b> .....	70.8	71.2	71.4	431.0	445.3	444.5	295.8	300.1	299.6
Lexington .....	10.4	10.3	10.4	73.6	76.4	76.2	57.0	57.7	57.1
Louisville .....	29.3	29.6	29.7	159.5	167.3	166.5	69.7	70.9	71.2
Owensboro .....	1.8	1.8	1.8	10.7	10.7	10.8	7.3	7.4	7.4
<b>Louisiana</b> .....	86.8	86.3	86.3	505.9	512.9	513.9	367.4	372.4	370.3
Alexandria .....	2.2	2.3	2.3	16.8	16.7	16.7	13.1	13.5	13.6
Baton Rouge .....	17.7	17.6	17.6	73.5	74.7	74.9	56.9	59.7	58.3
Houma .....	2.4	2.3	2.3	15.9	16.2	16.3	13.7	14.1	14.1
Lafayette .....	6.3	6.3	6.3	40.5	42.1	42.2	23.8	25.0	25.1
Lake Charles .....	2.6	2.6	2.5	24.0	23.5	23.6	13.1	13.3	13.5
Monroe .....	5.0	5.0	5.1	18.4	18.3	18.4	13.0	13.1	12.6
New Orleans .....	31.6	31.2	31.1	192.1	192.5	193.2	107.6	108.0	108.3
Shreveport-Bossier City .....	6.6	6.5	6.6	53.5	54.6	54.7	32.7	33.2	33.1
<b>Maine</b> .....	29.1	31.0	31.3	158.9	165.4	165.2	96.6	96.6	95.8
Lewiston-Auburn .....	2.2	2.3	2.3	13.2	13.6	13.8	5.0	5.0	4.9
Portland .....	12.5	13.0	13.0	40.9	40.4	40.5	18.5	18.7	18.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Maryland</b> .....	2,292.0	2,330.9	2,338.7	1.3	1.3	1.2	140.1	141.6	140.3
Baltimore PMSA .....	1,187.6	1,200.8	1,200.0	.2	.2	.2	65.9	67.1	66.6
Baltimore City .....	412.8	419.6	421.0	(1)	(1)	(1)	13.0	13.8	13.7
Suburban Maryland-D.C. ....	848.7	862.6	866.4	(1)	(1)	(1)	59.7	62.6	62.1
<b>Massachusetts</b> .....	3,203.6	3,254.1	3,261.2	1.4	1.4	1.4	104.4	115.3	112.2
Barnstable-Yarmouth .....	55.1	57.7	56.6	(1)	(1)	(1)	2.6	2.8	2.7
Boston .....	1,959.4	1,994.3	2,000.6	.5	.4	.4	58.0	66.4	64.7
Brockton .....	98.2	99.8	100.3	(2)	(2)	(2)	3.5	3.8	3.8
Fitchburg-Leominster .....	53.8	53.7	53.6	(2)	(2)	(2)	1.8	2.0	1.9
Lawrence .....	152.5	151.7	152.1	(2)	(2)	(2)	5.9	6.4	6.1
Lowell .....	120.5	122.2	123.1	(1)	(1)	(1)	5.0	5.2	5.2
New Bedford .....	65.5	66.3	66.4	(2)	(2)	(2)	2.3	2.4	2.3
Pittsfield .....	42.6	43.4	43.3	.1	.1	.1	1.6	1.8	1.7
Springfield .....	258.0	262.0	261.3	.1	.1	.1	7.7	7.9	7.6
Worcester .....	229.3	230.5	230.9	.2	.2	.2	7.3	7.6	7.4
<b>Michigan</b> .....	4,544.9	4,613.8	4,612.4	7.5	7.6	7.4	180.9	196.1	185.4
Ann Arbor .....	274.8	280.9	281.3	(1)	(1)	(1)	10.1	11.1	10.8
Benton Harbor .....	72.6	74.2	73.6	(1)	(1)	(1)	2.5	2.8	2.6
Detroit .....	2,130.9	2,165.2	2,172.0	.8	.9	.9	81.9	91.4	88.4
Flint .....	184.0	184.8	185.0	(1)	(1)	(1)	7.4	8.7	8.4
Grand Rapids-Muskegon-Holland .....	566.8	583.3	585.3	(1)	(1)	(1)	23.7	27.1	26.0
Jackson .....	62.0	63.5	63.3	(1)	(1)	(1)	2.4	2.7	2.5
Kalamazoo-Battle Creek .....	213.5	216.8	214.9	(1)	(1)	(1)	8.3	9.3	8.8
Lansing-East Lansing .....	238.0	240.3	238.6	(1)	(1)	(1)	8.4	9.2	8.5
Saginaw-Bay City-Midland .....	182.7	186.2	186.2	(1)	(1)	(1)	9.6	9.6	9.1
<b>Minnesota</b> .....	2,534.2	2,590.5	2,583.9	7.5	7.9	7.5	91.0	106.2	98.6
Duluth-Superior .....	111.8	114.4	113.6	4.9	4.8	4.8	4.0	5.0	4.5
Minneapolis-St. Paul .....	1,654.6	1,692.8	1,694.7	(2)	(2)	(2)	58.6	66.3	62.5
Rochester .....	74.6	77.3	77.2	(1)	(1)	(1)	2.8	3.3	3.1
St. Cloud .....	87.0	88.5	88.4	(1)	(1)	(1)	3.8	4.5	4.1
<b>Mississippi</b> .....	1,121.5	1,131.9	1,133.6	6.1	5.9	5.8	51.3	56.8	56.2
Jackson .....	223.4	227.3	226.3	(2)	(2)	(2)	11.6	12.2	12.1
<b>Missouri</b> .....	2,674.7	2,715.3	2,710.6	4.7	5.0	5.1	121.9	131.4	128.8
Kansas City .....	938.5	960.0	962.6	(1)	(1)	(1)	46.4	50.9	49.3
St. Louis .....	1,312.6	1,323.6	1,325.7	(1)	(1)	(1)	66.9	70.8	69.6
Springfield .....	162.4	165.3	165.1	(1)	(1)	(1)	6.4	6.7	6.7
<b>Montana</b> .....	370.3	375.8	374.7	5.3	5.5	5.3	18.1	19.0	17.4
<b>Nebraska</b> .....	874.9	891.1	890.3	1.2	1.4	1.3	39.5	41.8	41.0
Lincoln .....	148.8	150.0	150.1	(1)	(1)	(1)	6.5	7.3	7.1
Omaha .....	408.7	422.3	421.4	(1)	(1)	(1)	19.1	21.0	20.8
<b>Nevada</b> .....	910.9	957.2	954.9	14.3	13.6	13.5	84.0	90.4	90.1
Las Vegas .....	647.9	687.0	685.8	2.2	2.2	2.2	66.3	70.5	70.8
Reno .....	179.7	184.6	184.0	.6	.5	.5	12.0	13.9	13.6
<b>New Hampshire</b> .....	577.0	575.5	579.1	.4	.4	.4	21.5	22.8	22.5
Manchester .....	98.7	96.0	96.5	(1)	(1)	(1)	4.5	4.6	4.5
Nashua .....	94.6	94.0	95.1	(1)	(1)	(1)	3.1	3.4	3.4
Portsmouth-Rochester .....	114.1	113.0	113.2	(1)	(1)	(1)	3.2	3.2	3.1
<b>New Jersey</b> .....	3,799.3	3,854.6	3,864.6	1.9	2.0	2.0	133.8	143.8	140.1
Atlantic-Cape May .....	175.7	179.1	178.0	(1)	(1)	(1)	7.3	7.5	7.3
Bergen-Passaic .....	657.3	662.8	663.7	(1)	(1)	(1)	22.6	24.8	24.3
Camden .....	481.1	494.4	495.2	(1)	(1)	(1)	21.8	24.1	23.6
Jersey City .....	245.0	247.7	247.8	(1)	(1)	(1)	4.6	4.6	4.5
Middlesex-Somerset-Hunterdon .....	624.7	640.8	643.6	.5	.5	.5	18.9	21.1	21.0
Monmouth-Ocean .....	361.9	367.2	366.2	(1)	(1)	(1)	18.2	19.1	18.6
Newark .....	970.0	980.6	985.8	.8	.9	.9	32.7	34.5	34.6
Trenton .....	201.1	199.9	201.5	(1)	(1)	(1)	4.7	5.1	5.1
Vineland-Millville-Bridgeton .....	59.9	60.5	60.3	.3	.2	.3	2.1	2.3	2.1
<b>New Mexico</b> .....	718.7	727.8	730.9	15.7	14.9	14.6	41.9	43.0	42.3
Albuquerque .....	338.2	343.0	344.9	(1)	(1)	(1)	21.3	21.8	21.6
Las Cruces .....	52.6	53.8	53.7	(1)	(1)	(1)	3.0	3.2	3.3
Santa Fe .....	71.4	72.8	72.8	(1)	(1)	(1)	3.6	3.7	3.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	December 1997	November 1998	December 1998P	December 1997	November 1998	December 1998P	December 1997	November 1998	December 1998P
<b>Maryland</b> .....	177.2	174.0	174.2	107.0	106.9	108.2	553.4	547.2	555.2
Baltimore PMSA .....	101.0	97.9	98.5	59.1	61.0	60.8	280.8	278.2	279.3
Baltimore City .....	31.4	30.3	30.5	20.3	22.3	22.3	65.6	64.5	65.0
Suburban Maryland-D.C. ....	38.8	38.6	38.8	33.9	34.4	34.2	203.5	199.7	202.8
<b>Massachusetts</b> .....	454.4	446.2	445.6	137.9	138.1	138.8	744.9	742.3	752.6
Barnstable-Yarmouth .....	2.1	2.2	2.2	2.9	2.8	2.8	18.8	19.9	19.6
Boston .....	225.4	221.2	220.7	84.4	84.8	85.5	435.8	435.3	442.6
Brockton .....	10.8	10.5	10.5	5.2	4.9	4.9	32.2	32.2	32.4
Fitchburg-Leominster .....	13.9	13.2	13.0	2.1	2.0	2.0	12.8	12.7	13.0
Lawrence .....	39.0	36.7	36.8	4.9	4.9	4.9	35.8	35.3	35.5
Lowell .....	29.7	30.0	29.9	7.4	7.5	7.6	25.6	25.7	26.3
New Bedford .....	13.9	13.3	13.3	3.6	3.8	3.8	16.7	16.5	16.8
Pittsfield .....	7.5	7.4	7.4	1.3	1.3	1.3	10.7	10.7	10.9
Springfield .....	39.3	39.4	39.2	10.4	10.7	10.8	60.3	59.8	60.2
Worcester .....	42.5	41.9	41.9	9.8	9.2	9.2	52.3	52.5	53.1
<b>Michigan</b> .....	978.6	977.5	977.6	176.0	176.7	176.3	1,079.7	1,087.3	1,101.7
Ann Arbor .....	53.2	54.0	54.3	6.6	6.7	6.7	56.3	56.1	57.0
Benton Harbor .....	20.2	20.1	20.1	3.0	3.0	3.0	16.4	16.7	16.7
Detroit .....	447.6	445.5	446.3	96.4	95.5	95.4	510.6	516.3	526.2
Flint .....	40.9	39.6	39.2	5.5	5.5	5.5	47.5	47.1	48.0
Grand Rapids-Muskegon-Holland .....	157.2	159.5	160.3	19.1	19.4	19.7	141.4	145.9	147.9
Jackson .....	13.0	13.2	13.2	3.5	3.5	3.5	16.1	16.3	16.5
Kalamazoo-Battle Creek .....	49.6	49.6	49.2	7.0	7.3	7.3	48.2	48.3	48.6
Lansing-East Lansing .....	30.3	29.0	28.8	6.1	6.1	6.0	54.0	54.5	54.7
Saginaw-Bay City-Midland .....	40.1	40.5	40.4	7.3	7.1	7.1	47.5	48.1	48.6
<b>Minnesota</b> .....	439.0	441.5	440.3	127.0	128.8	129.1	620.9	623.5	629.9
Duluth-Superior .....	8.4	8.6	8.6	7.2	7.6	7.5	28.6	28.9	29.0
Minneapolis-St. Paul .....	275.7	277.3	277.9	90.2	93.6	93.8	403.3	404.8	409.7
Rochester .....	12.4	13.6	13.4	2.2	2.2	2.2	15.1	15.1	15.3
St. Cloud .....	15.7	15.6	15.8	3.0	3.2	3.2	26.4	26.6	26.7
<b>Mississippi</b> .....	242.0	240.4	241.0	53.7	52.9	52.9	242.5	240.4	242.8
Jackson .....	20.4	20.9	20.8	15.7	15.6	15.3	55.5	53.5	53.6
<b>Missouri</b> .....	422.7	420.3	420.4	164.9	166.0	166.5	639.6	648.7	651.7
Kansas City .....	107.5	109.4	109.5	77.4	80.1	80.6	233.9	235.6	238.5
St. Louis .....	197.8	196.4	196.0	83.0	83.0	82.9	317.4	316.7	322.7
Springfield .....	24.0	23.5	23.5	10.5	10.5	10.6	45.9	46.6	46.7
<b>Montana</b> .....	24.5	24.6	24.6	21.7	21.5	21.5	99.8	100.7	100.9
<b>Nebraska</b> .....	117.7	117.8	117.7	54.8	57.2	57.8	216.6	219.6	219.9
Lincoln .....	17.6	17.7	17.6	9.7	10.3	10.4	31.0	31.1	31.5
Omaha .....	40.0	41.9	42.2	29.1	30.9	31.2	100.1	104.1	105.0
<b>Nevada</b> .....	41.4	43.0	42.8	46.8	48.6	48.3	186.8	193.2	195.4
Las Vegas .....	22.2	23.1	23.0	33.3	34.6	34.3	134.0	139.7	140.8
Reno .....	13.7	14.4	14.3	11.6	11.8	11.8	42.0	42.2	42.8
<b>New Hampshire</b> .....	108.5	104.8	105.3	19.8	19.6	19.9	152.9	151.6	154.6
Manchester .....	14.1	13.6	13.7	5.8	6.1	6.1	24.3	23.9	24.2
Nashua .....	27.8	27.3	27.1	2.5	2.3	2.3	23.4	22.9	24.0
Portsmouth-Rochester .....	20.0	19.2	19.2	4.1	3.9	4.0	30.3	30.5	31.0
<b>New Jersey</b> .....	485.2	477.9	475.2	262.8	265.9	266.3	906.8	910.8	925.3
Atlantic-Cape May .....	6.5	6.3	6.4	7.2	7.1	7.1	35.1	36.4	36.2
Bergen-Passaic .....	107.3	105.7	104.3	36.1	37.0	36.9	184.4	184.2	186.9
Camden .....	55.8	55.5	55.4	22.1	22.5	22.5	130.5	132.1	133.9
Jersey City .....	29.1	29.6	28.3	28.8	29.2	29.0	57.3	57.3	57.8
Middlesex-Somerset-Hunterdon .....	93.1	91.9	91.4	51.4	51.3	51.1	150.5	152.8	154.1
Monmouth-Ocean .....	20.5	19.7	19.8	21.0	21.2	21.2	101.3	102.1	103.0
Newark .....	136.6	135.3	135.6	82.5	84.4	85.1	197.2	195.8	200.2
Trenton .....	19.2	17.8	17.6	7.4	7.4	7.2	34.5	34.0	34.6
Vineland-Millville-Bridgeton .....	12.8	12.6	12.4	3.0	3.1	3.0	11.9	12.0	12.2
<b>New Mexico</b> .....	47.1	44.6	44.4	33.2	34.2	34.3	171.4	175.0	176.6
Albuquerque .....	30.1	28.6	28.7	16.1	16.8	17.1	83.1	84.8	85.5
Las Cruces .....	2.8	2.8	2.8	1.8	1.9	1.9	11.6	11.6	11.6
Santa Fe .....	2.0	2.0	2.0	1.2	1.3	1.3	15.4	15.5	15.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Maryland</b> .....	131.7	133.6	134.7	759.0	783.9	782.8	422.3	442.4	442.1
Baltimore PMSA .....	73.3	73.9	74.3	394.3	406.4	404.8	213.0	216.1	215.5
Baltimore City .....	33.7	34.9	35.3	158.8	160.2	159.7	90.0	93.6	94.5
Suburban Maryland-D.C. ....	49.6	50.5	50.9	290.0	296.3	296.9	173.2	180.5	180.7
<b>Massachusetts</b> .....	215.5	219.4	221.1	1,128.4	1,169.5	1,167.0	416.7	421.9	422.5
Barnstable-Yarmouth .....	3.1	3.3	3.2	18.2	18.9	18.5	7.4	7.8	7.6
Boston .....	160.5	164.0	165.3	762.8	788.1	787.0	232.0	234.1	234.4
Brockton .....	3.3	3.4	3.5	26.2	27.8	27.7	17.0	17.2	17.5
Fitchburg-Leominster .....	1.6	1.7	1.7	13.5	13.5	13.3	8.1	8.6	8.7
Lawrence .....	4.4	4.2	4.3	44.5	45.5	45.9	18.0	18.7	18.6
Lowell .....	3.9	3.8	3.8	33.1	33.9	34.2	15.8	16.1	16.1
New Bedford .....	1.8	1.8	1.8	17.2	18.0	18.1	10.0	10.5	10.3
Pittsfield .....	1.9	2.0	2.0	14.1	14.3	14.2	5.4	5.8	5.7
Springfield .....	12.8	13.1	13.2	80.4	82.7	82.1	47.0	48.3	48.1
Worcester .....	15.0	14.8	14.8	66.7	67.9	67.9	35.5	36.4	36.4
<b>Michigan</b> .....	207.0	206.8	207.1	1,241.0	1,277.6	1,278.1	674.1	684.2	678.8
Ann Arbor .....	10.0	10.2	10.2	65.7	67.5	67.4	73.0	75.3	74.9
Benton Harbor .....	2.5	2.4	2.4	19.2	20.1	19.7	8.9	9.1	9.1
Detroit .....	112.7	112.7	113.3	647.3	663.2	662.8	233.6	239.7	238.7
Flint .....	6.5	6.5	6.6	51.1	52.6	52.4	25.1	24.8	24.9
Grand Rapids-Muskegon-Holland ..	22.7	23.0	23.3	146.4	149.8	149.6	56.3	58.6	58.5
Jackson .....	1.9	1.9	1.9	14.8	15.1	15.0	10.4	10.8	10.7
Kalamazoo-Battle Creek .....	10.9	10.8	10.6	53.7	54.6	54.4	35.7	36.9	36.0
Lansing-East Lansing .....	13.9	14.2	14.3	57.1	59.0	58.4	68.2	68.3	67.9
Saginaw-Bay City-Midland .....	6.9	6.9	6.9	48.8	50.8	50.9	22.4	23.2	23.2
<b>Minnesota</b> .....	149.2	153.8	154.9	710.7	731.9	732.1	388.9	396.9	391.5
Duluth-Superior .....	3.5	3.6	3.6	32.0	32.8	32.8	23.2	23.1	22.8
Minneapolis-St. Paul .....	116.9	118.6	119.4	482.4	495.1	497.2	227.0	236.5	233.7
Rochester .....	2.3	2.4	2.4	32.7	33.7	33.9	7.1	7.0	6.9
St. Cloud .....	3.0	3.2	3.2	21.8	22.5	22.4	13.3	12.9	13.0
<b>Mississippi</b> .....	41.0	41.6	41.6	261.9	264.6	263.2	223.0	229.3	230.1
Jackson .....	15.8	16.7	16.8	58.4	60.8	59.9	45.0	46.7	46.8
<b>Missouri</b> .....	155.0	160.2	160.3	741.8	750.0	742.8	424.1	433.7	435.0
Kansas City .....	65.9	68.9	68.9	272.7	276.6	277.3	134.7	138.5	138.5
St. Louis .....	80.4	81.7	82.4	409.3	416.6	415.7	157.8	158.4	156.4
Springfield .....	6.9	7.2	7.2	48.1	49.6	49.2	20.6	21.2	21.2
<b>Montana</b> .....	16.6	16.9	17.1	105.3	105.9	106.9	79.0	81.7	81.0
<b>Nebraska</b> .....	56.0	58.4	58.3	233.0	239.8	239.7	156.1	155.1	154.6
Lincoln .....	9.6	10.3	10.3	37.0	37.6	37.4	37.4	35.7	35.8
Omaha .....	35.7	36.9	37.0	132.4	137.9	136.1	52.3	49.6	49.1
<b>Nevada</b> .....	41.3	44.0	44.1	384.5	407.5	404.1	111.8	116.9	116.6
Las Vegas .....	31.2	33.1	33.2	288.8	309.4	306.9	69.9	74.4	74.6
Reno .....	8.2	8.7	8.8	67.7	68.6	68.1	23.9	24.5	24.1
<b>New Hampshire</b> .....	29.0	29.9	29.9	165.3	164.4	165.7	79.6	82.0	80.8
Manchester .....	7.3	7.0	7.0	31.0	30.0	30.1	11.7	10.8	10.9
Nashua .....	4.4	4.8	5.1	24.8	24.4	24.1	8.6	8.9	9.1
Portsmouth-Rochester .....	6.3	6.4	6.4	28.9	28.2	28.3	21.3	21.6	21.2
<b>New Jersey</b> .....	241.5	246.1	246.6	1,189.3	1,230.1	1,230.5	578.0	578.0	578.6
Atlantic-Cape May .....	6.4	6.2	6.2	84.5	86.1	85.1	28.7	29.5	29.7
Bergen-Passaic .....	34.7	35.5	35.6	198.8	204.1	204.9	73.4	71.5	70.8
Camden .....	23.1	25.0	25.4	147.6	155.0	154.1	80.2	80.2	80.3
Jersey City .....	26.2	26.8	27.0	60.2	62.0	62.8	38.8	38.2	38.4
Middlesex-Somerset-Hunterdon ..	45.2	45.9	45.9	187.0	197.4	199.9	78.1	79.9	79.7
Monmouth-Ocean .....	17.9	18.1	17.5	119.1	123.7	123.0	63.9	63.3	63.1
Newark .....	72.7	72.9	72.9	302.7	311.2	310.2	144.8	145.6	146.3
Trenton .....	11.6	10.9	11.1	71.5	73.9	74.5	52.2	50.8	51.4
Vineland-Millville-Bridgeton ..	3.1	3.1	3.1	12.9	13.0	13.0	13.8	14.2	14.2
<b>New Mexico</b> .....	31.4	32.0	32.2	197.1	203.1	205.6	180.9	181.0	180.9
Albuquerque .....	16.5	16.7	16.8	105.7	108.4	109.2	65.4	65.9	66.0
Las Cruces .....	2.0	2.0	2.0	11.1	12.2	12.3	20.3	20.1	19.8
Santa Fe .....	3.2	3.5	3.5	20.9	21.3	21.6	25.1	25.5	25.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>New York</b> .....	8,192.1	8,307.7	8,332.9	4.2	4.6	4.2	267.0	295.5	286.0
Albany-Schenectady-Troy .....	437.8	444.1	443.2	.4	.5	.4	14.3	16.8	15.9
Binghamton .....	115.5	117.9	117.7	(1)	(1)	(1)	3.6	4.3	4.1
Buffalo-Niagara Falls .....	552.8	553.3	553.2	(1)	(1)	(1)	19.2	21.7	20.1
Dutchess County .....	108.3	111.2	110.7	(1)	(1)	(1)	4.3	4.8	4.6
Elmira .....	43.4	43.8	44.1	(1)	(1)	(1)	1.6	1.8	1.8
Glens Falls .....	48.9	49.5	49.0	(1)	(1)	(1)	1.9	2.2	2.0
Nassau-Suffolk .....	1,149.8	1,168.4	1,174.2	(1)	(1)	(1)	50.7	55.2	54.0
New York PMSA .....	4,006.5	4,095.6	4,116.4	(1)	(1)	(1)	121.8	132.7	131.4
New York City .....	3,486.8	3,566.2	3,584.4	.3	.3	.3	97.2	105.7	104.9
Newburgh .....	121.3	122.8	123.4	(1)	(1)	(1)	4.5	4.5	4.5
Rochester .....	534.7	536.6	535.9	.4	.4	.4	16.0	18.1	16.9
Rockland County .....	102.6	107.9	108.5	(1)	(1)	(1)	3.6	4.3	4.3
Syracuse .....	341.8	345.9	346.4	(1)	(1)	(1)	12.6	14.2	13.7
Ulica-Rome .....	128.9	132.4	132.3	(1)	(1)	(1)	3.5	4.0	3.7
Westchester County .....	396.8	400.0	402.1	(1)	(1)	(1)	19.0	20.3	19.8
<b>North Carolina</b> .....	3,756.9	3,807.9	3,821.1	4.0	4.0	4.0	208.5	214.7	214.0
Asheville .....	111.3	112.8	112.5	(1)	(1)	(1)	5.7	5.9	5.9
Charlotte-Gastonia-Rock Hill .....	768.2	772.4	772.5	(1)	(1)	(1)	47.4	47.8	47.9
Greensboro-Winston-Salem-High Point .....	641.2	641.3	642.2	(1)	(1)	(1)	31.7	32.6	32.5
Raleigh-Durham-Chapel Hill .....	629.4	648.6	646.3	(1)	(1)	(1)	35.4	36.2	36.2
<b>North Dakota</b> .....	318.2	320.0	319.5	4.1	4.0	3.9	13.5	14.8	13.8
Bismarck .....	49.1	49.8	49.9	(1)	(1)	(1)	2.3	2.4	2.4
Fargo-Moorhead .....	99.7	100.5	100.2	(1)	(1)	(1)	4.9	5.2	4.9
Grand Forks .....	48.9	49.1	48.8	(1)	(1)	(1)	2.6	2.9	2.5
<b>Ohio</b> .....	5,481.2	5,539.8	5,544.8	13.5	13.1	13.1	224.3	242.2	233.0
Akron .....	327.7	332.1	333.2	.5	.5	.5	13.0	13.8	13.4
Canton-Massillon .....	184.4	188.7	189.4	.5	.5	.5	8.3	9.4	9.0
Cincinnati .....	863.4	884.1	887.6	.7	.7	.8	39.6	42.7	41.6
Cleveland-Lorain-Elyria .....	1,160.2	1,177.2	1,180.4	.9	.8	.8	44.8	48.8	47.4
Columbus .....	833.7	845.8	847.4	.7	.6	.6	35.8	38.5	37.9
Dayton-Springfield .....	483.9	483.3	484.1	.4	.4	.4	17.4	18.3	17.8
Hamilton-Middletown .....	120.3	120.3	120.3	(1)	(1)	(1)	7.2	7.5	7.2
Lima .....	79.6	79.9	80.1	(1)	(1)	(1)	4.0	3.8	3.8
Mansfield .....	80.8	80.2	80.4	(1)	(1)	(1)	2.5	2.5	2.5
Steubenville-Weirton .....	50.9	50.9	51.0	.4	.4	.4	1.7	1.7	1.7
Toledo .....	323.8	323.4	323.5	.1	.1	.1	14.7	15.4	14.9
Youngstown-Warren .....	249.9	253.1	252.4	.5	.5	.5	10.2	10.5	9.9
<b>Oklahoma</b> .....	1,416.0	1,452.7	1,457.3	31.8	31.2	31.3	50.6	53.1	53.2
Enid .....	25.2	25.7	25.7	1.2	1.2	1.3	1.0	1.2	1.2
Lawton .....	37.2	37.7	37.6	.1	.1	.1	1.0	1.0	.9
Oklahoma City .....	511.1	520.4	522.8	7.5	7.3	7.4	18.1	18.8	19.1
Tulsa .....	383.4	394.7	396.7	7.6	7.5	7.5	15.4	17.0	16.8
<b>Oregon</b> .....	1,557.4	1,597.2	1,591.8	1.8	1.8	1.7	82.3	84.7	83.1
Eugene-Springfield .....	140.1	144.1	143.7	.2	.2	.2	7.4	7.9	7.5
Medford-Ashland .....	71.9	73.7	73.9	.1	.1	.1	3.4	3.6	3.5
Portland-Vancouver .....	942.3	966.1	965.8	1.1	1.2	1.1	52.2	56.2	55.4
Salem .....	132.3	136.1	134.6	.2	.3	.2	7.9	8.2	8.0
<b>Pennsylvania</b> .....	5,493.1	5,547.5	5,537.1	20.3	20.3	20.0	212.5	230.2	222.5
Allentown-Bethlehem-Easton .....	268.1	268.0	268.7	(1)	(1)	(1)	10.0	11.0	10.6
Altoona .....	58.8	59.7	59.8	(1)	(1)	(1)	2.2	2.5	2.4
Erie .....	130.3	132.2	131.8	(1)	(1)	(1)	3.9	4.9	4.3
Harrisburg-Lebanon-Carlisle .....	354.4	358.3	358.5	(1)	(1)	(1)	12.7	13.5	12.9
Johnstown .....	88.5	89.5	89.7	(1)	(1)	(1)	4.2	4.4	4.3
Lancaster .....	217.5	220.2	219.8	.4	.4	.4	12.3	13.0	12.6
Philadelphia PMSA .....	2,303.1	2,327.7	2,326.4	(1)	(1)	(1)	89.9	96.1	94.0
Philadelphia City .....	682.9	685.4	684.3	(1)	(1)	(1)	11.4	11.3	11.0
Pittsburgh .....	1,084.9	1,086.9	1,084.2	4.7	4.4	4.3	48.7	51.9	49.5
Reading .....	168.4	166.5	166.7	(1)	(1)	(1)	7.4	7.2	7.2
Scranton-Wilkes-Barre-Hazleton .....	278.6	283.5	282.8	.4	.4	.3	10.0	11.8	11.0
Sharon .....	48.5	49.5	49.0	(1)	(1)	(1)	1.4	1.6	1.4
State College .....	69.8	72.6	70.7	(1)	(1)	(1)	2.3	2.4	2.3
Williamsport .....	53.7	54.6	54.9	(1)	(1)	(1)	2.2	2.4	2.3
York .....	166.7	165.8	166.4	.4	.4	.4	8.2	8.8	8.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>New York</b> .....	924.6	919.6	915.4	415.9	416.5	417.3	1,710.9	1,709.5	1,736.5
Albany-Schenectady-Troy .....	39.0	38.8	38.8	17.3	17.3	17.3	96.6	96.3	97.7
Binghamton .....	25.0	25.3	25.1	4.8	4.9	4.9	24.8	24.7	25.1
Buffalo-Niagara Falls .....	90.5	89.3	89.2	25.5	26.5	26.4	135.7	133.4	135.0
Dutchess County .....	18.1	19.0	18.8	3.6	3.6	3.7	21.0	21.1	21.3
Elmira .....	9.7	9.6	9.6	1.5	1.5	1.5	11.0	10.8	11.0
Glens Falls .....	8.6	8.2	8.2	1.5	1.5	1.5	11.3	11.7	11.6
Nassau-Suffolk .....	114.4	114.2	114.4	53.6	54.8	54.9	301.8	298.9	304.8
New York PMSA .....	316.0	319.7	316.8	236.5	237.9	238.5	725.6	733.3	744.4
New York City .....	263.1	266.9	263.9	209.6	211.1	211.5	609.3	614.1	622.5
Newburgh .....	11.7	11.7	11.8	6.9	6.9	7.0	33.9	34.2	34.6
Rochester .....	127.4	121.0	121.1	17.0	17.3	17.2	115.2	114.5	116.2
Rockland County .....	12.4	12.5	12.5	6.4	6.3	6.3	23.3	26.7	27.0
Syracuse .....	48.9	49.7	49.7	19.7	20.3	20.2	81.3	81.2	82.1
Utica-Rome .....	19.8	19.6	19.7	3.6	3.8	3.7	26.9	28.0	27.8
Westchester County .....	38.7	38.4	38.4	19.9	19.9	20.0	88.9	88.1	90.5
<b>North Carolina</b> .....	836.6	821.9	820.8	172.5	172.7	174.8	862.2	869.7	883.1
Asheville .....	19.7	19.4	19.2	4.7	4.7	4.7	28.2	28.6	28.6
Charlotte-Gastonia-Rock Hill .....	145.2	140.4	140.1	53.2	53.1	53.2	187.4	186.1	186.8
Greensboro-Winston-Salem-High Point .....	165.6	164.4	164.9	31.9	31.7	32.0	143.2	144.1	144.2
Raleigh-Durham-Chapel Hill .....	84.9	85.7	85.4	27.6	28.6	28.7	133.5	137.2	137.7
<b>North Dakota</b> .....	23.5	23.8	23.5	18.3	18.3	18.4	83.6	82.0	82.8
Bismarck .....	2.7	2.8	2.7	3.1	3.2	3.2	12.5	12.5	12.7
Fargo-Moorhead .....	8.1	8.3	8.0	5.2	5.3	5.3	28.8	28.4	28.5
Grand Forks .....	3.5	3.9	3.9	2.4	2.2	2.3	13.2	13.1	13.2
<b>Ohio</b> .....	1,099.7	1,091.7	1,092.7	236.0	236.8	236.2	1,355.5	1,343.1	1,362.0
Akron .....	64.7	64.4	64.5	14.5	14.8	14.8	81.8	83.4	84.2
Canton-Massillon .....	46.7	47.6	47.9	5.3	5.1	5.2	47.3	47.0	47.5
Cincinnati .....	141.4	143.3	143.4	44.7	45.1	45.2	226.7	224.8	229.6
Cleveland-Lorain-Elyria .....	225.3	223.4	223.5	46.2	46.3	46.5	281.7	281.2	285.8
Columbus .....	93.9	93.8	93.5	36.6	36.2	35.8	222.2	219.8	222.8
Dayton-Springfield .....	100.8	98.6	99.2	21.0	21.5	21.5	114.8	114.1	115.8
Hamilton-Middletown .....	21.1	20.7	20.6	4.7	5.1	4.9	32.5	31.8	32.1
Lima .....	19.7	19.6	19.5	3.2	3.1	3.2	19.1	19.4	19.4
Mansfield .....	22.8	22.8	22.8	3.4	3.1	3.1	19.1	18.7	18.8
Steubenville-Weirton .....	13.7	13.4	13.5	2.7	2.5	2.4	10.7	11.1	11.0
Toledo .....	61.6	60.4	60.4	14.4	14.9	14.8	81.9	78.6	79.4
Youngstown-Warren .....	59.7	58.7	58.3	10.6	10.7	10.7	63.3	64.4	64.8
<b>Oklahoma</b> .....	183.9	186.5	186.5	81.1	83.9	84.3	332.5	336.4	339.4
Enid .....	2.4	2.4	2.4	2.0	2.1	2.0	6.3	6.4	6.4
Lawton .....	3.6	3.5	3.5	1.8	1.8	1.8	9.0	9.1	9.1
Oklahoma City .....	55.4	57.1	56.9	24.9	25.5	25.9	123.3	124.3	125.8
Tulsa .....	57.1	57.6	57.7	30.0	31.7	31.9	89.5	90.0	91.2
<b>Oregon</b> .....	242.8	240.7	239.3	74.7	76.6	76.4	393.3	396.4	399.9
Eugene-Springfield .....	21.0	22.1	21.7	4.7	4.3	4.4	36.3	36.8	37.2
Medford-Ashland .....	9.2	8.7	8.6	3.3	3.5	3.5	23.0	23.3	23.7
Portland-Vancouver .....	149.6	147.0	146.5	53.4	55.9	56.0	239.4	240.8	243.8
Salem .....	16.7	17.3	16.6	3.5	3.5	3.5	28.7	29.2	29.5
<b>Pennsylvania</b> .....	939.6	930.2	930.8	282.0	285.9	284.3	1,259.9	1,254.7	1,263.2
Allentown-Bethlehem-Easton .....	56.8	54.8	55.1	15.5	15.7	15.7	58.3	57.8	58.4
Altoona .....	10.2	10.0	10.1	4.4	4.3	4.4	16.0	16.7	16.7
Erie .....	34.3	34.3	34.4	4.8	4.8	4.8	29.7	29.8	30.1
Harrisburg-Lebanon-Carlisle .....	45.5	44.8	44.7	23.2	23.7	23.3	80.5	81.7	82.7
Johnstown .....	12.9	12.9	13.0	5.3	5.4	5.3	20.7	21.3	21.4
Lancaster .....	56.5	55.8	55.4	8.7	9.1	9.0	55.0	55.4	56.1
Philadelphia PMSA .....	306.6	302.5	302.4	109.4	112.0	111.7	518.5	516.8	519.6
Philadelphia City .....	58.5	56.9	57.1	34.2	34.9	34.5	113.3	112.9	113.5
Pittsburgh .....	138.7	138.0	138.1	66.0	65.9	65.7	265.3	263.8	265.9
Reading .....	44.0	41.6	41.5	8.2	8.3	8.4	40.1	39.8	40.2
Scranton-Wilkes-Barre-Hazleton .....	54.1	55.0	55.0	15.8	16.0	15.9	68.3	68.3	68.9
Sharon .....	11.5	11.2	11.2	2.0	1.9	1.9	12.9	12.7	12.7
State College .....	8.7	8.9	8.8	2.1	2.1	2.0	13.6	14.0	13.9
Williamsport .....	13.1	13.2	13.2	2.0	1.9	1.9	13.5	13.7	14.0
York .....	47.7	46.4	46.5	7.7	7.6	7.7	41.8	41.4	42.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>New York</b> .....	723.5	733.2	737.5	2,756.0	2,839.6	2,848.0	1,390.1	1,389.2	1,388.0
Albany-Schenectady-Troy .....	25.5	25.4	25.5	134.6	138.6	138.0	110.1	110.3	109.6
Binghamton .....	3.8	3.8	3.8	31.1	32.0	31.7	22.3	22.8	22.9
Buffalo-Niagara Falls .....	29.1	29.3	29.3	164.5	164.2	164.5	88.4	88.8	88.8
Dutchess County .....	4.5	4.8	4.9	34.1	34.6	34.4	22.7	23.3	23.0
Elmira .....	1.3	1.3	1.3	10.8	11.1	11.1	7.5	7.7	7.7
Glens Falls .....	2.1	2.1	2.1	13.4	13.4	13.2	10.2	10.5	10.4
Nassau-Suffolk .....	79.0	79.7	80.3	368.6	380.1	381.4	181.7	185.6	184.3
New York PMSA .....	508.3	515.7	518.4	1,489.5	1,552.2	1,561.5	608.8	604.2	605.5
New York City .....	475.5	482.5	484.9	1,306.3	1,365.5	1,374.6	525.2	520.2	521.7
Newburgh .....	5.5	5.4	5.4	31.3	32.2	32.1	27.6	28.0	27.9
Rochester .....	21.0	21.2	21.3	158.5	163.3	162.5	79.2	80.8	80.4
Rockland County .....	4.8	5.0	5.1	32.5	33.3	33.4	19.6	20.0	19.9
Syracuse .....	18.0	17.7	17.7	99.9	100.7	100.7	61.5	62.2	62.4
Utica-Rome .....	7.5	7.7	7.7	39.5	41.1	41.4	28.0	28.2	28.2
Westchester County .....	26.5	26.7	26.9	144.2	147.1	147.0	59.6	59.6	59.5
<b>North Carolina</b> .....	168.9	178.5	179.3	900.3	925.7	926.3	603.9	620.7	618.8
Asheville .....	3.2	3.1	3.1	33.5	34.9	34.7	16.3	16.2	16.3
Charlotte-Gastonia-Rock Hill .....	54.0	56.1	56.4	188.2	190.9	190.6	92.8	98.0	97.5
Greensboro-Winston-Salem-High Point .....	33.1	33.3	33.2	165.5	169.4	169.6	70.2	65.8	65.8
Raleigh-Durham-Chapel Hill .....	30.1	30.7	30.7	194.5	197.6	198.0	123.4	132.6	129.6
<b>North Dakota</b> .....	15.2	15.9	15.9	87.7	88.7	88.2	72.3	72.5	73.0
Bismarck .....	2.3	2.4	2.4	15.6	15.6	15.6	10.6	10.9	10.9
Fargo-Moorhead .....	6.3	6.8	6.8	30.6	30.8	30.9	15.8	15.7	15.8
Grand Forks .....	1.6	1.5	1.5	12.2	11.5	11.5	13.4	14.0	13.9
<b>Ohio</b> .....	289.2	293.3	294.1	1,483.4	1,532.4	1,525.9	779.6	787.2	787.8
Akron .....	13.0	13.3	13.2	90.3	91.8	92.0	49.9	50.1	50.6
Canton-Massillon .....	6.1	6.2	6.3	50.2	52.4	52.6	20.0	20.5	20.4
Cincinnati .....	53.8	55.5	55.8	253.5	266.0	265.6	103.0	106.0	105.6
Cleveland-Lorain-Elyria .....	74.1	75.6	75.9	339.8	351.5	350.0	147.4	149.6	150.5
Columbus .....	71.8	73.0	73.2	233.8	244.0	242.9	138.9	139.9	140.7
Dayton-Springfield .....	18.4	18.5	18.7	138.7	139.9	138.9	72.4	72.0	71.8
Hamilton-Middletown .....	6.4	6.8	6.9	27.2	27.5	27.7	21.2	20.9	20.9
Lima .....	2.2	2.2	2.2	20.8	21.1	21.4	10.6	10.7	10.6
Mansfield .....	2.5	2.4	2.4	20.0	19.8	19.9	10.5	10.9	10.9
Steubenville-Weirton .....	1.5	1.5	1.5	13.8	13.9	14.1	6.4	6.4	6.4
Toledo .....	11.1	11.3	11.4	90.8	91.6	92.3	49.2	50.1	50.2
Youngstown-Warren .....	9.5	9.4	9.7	63.7	65.2	65.0	32.4	33.7	33.5
<b>Oklahoma</b> .....	70.4	71.4	71.8	382.2	400.7	401.0	283.5	289.5	289.8
Enid .....	1.0	1.0	1.1	7.1	7.2	7.2	4.2	4.2	4.1
Lawton .....	1.7	1.7	1.7	8.1	8.4	8.4	11.9	12.1	12.1
Oklahoma City .....	29.8	30.5	30.8	148.4	152.7	152.6	103.7	104.2	104.3
Tulsa .....	20.4	21.0	21.1	119.8	125.8	126.2	43.6	44.1	44.3
<b>Oregon</b> .....	96.2	97.0	97.8	407.3	427.4	425.5	259.0	272.6	268.1
Eugene-Springfield .....	7.4	7.6	7.7	37.3	38.9	38.8	25.8	26.3	26.2
Medford-Ashland .....	3.1	3.2	3.2	19.0	19.8	19.9	10.8	11.5	11.4
Portland-Vancouver .....	67.0	67.6	67.9	259.1	270.8	270.5	120.5	126.6	124.6
Salem .....	6.6	6.7	6.7	31.6	32.5	32.0	37.1	38.4	38.1
<b>Pennsylvania</b> .....	316.5	320.9	321.3	1,733.8	1,765.9	1,756.0	728.5	739.4	739.0
Allentown-Bethlehem-Easton .....	13.2	13.5	13.6	82.6	82.9	82.7	31.7	32.3	32.6
Altoona .....	1.9	1.9	1.9	15.9	16.1	16.1	8.2	8.2	8.2
Erie .....	5.4	5.4	5.4	36.2	36.7	36.4	16.0	16.3	16.4
Harrisburg-Lebanon-Carlisle .....	25.8	25.8	25.9	99.5	101.2	101.6	67.2	67.6	67.4
Johnstown .....	4.2	4.1	4.2	27.3	27.4	27.5	13.9	14.0	14.0
Lancaster .....	9.5	10.0	10.1	55.5	57.3	56.8	19.6	19.2	19.4
Philadelphia PMSA .....	158.8	160.6	161.5	819.9	839.7	835.7	300.0	300.0	301.5
Philadelphia City .....	55.1	55.1	54.8	289.7	295.3	293.4	120.7	119.0	120.0
Pittsburgh .....	62.4	62.4	62.1	370.2	370.4	368.6	128.9	130.1	130.0
Reading .....	8.5	8.9	8.9	40.2	40.6	40.5	20.0	20.1	20.0
Scranton-Wilkes-Barre-Hazleton .....	14.1	14.3	14.0	80.3	82.5	82.2	35.6	35.2	35.5
Sharon .....	1.5	1.7	1.7	13.7	14.6	14.4	5.5	5.8	5.7
State College .....	1.9	1.9	1.9	14.2	14.1	13.9	27.0	29.2	27.9
Williamsport .....	2.1	2.2	2.2	14.7	14.9	14.9	6.1	6.3	6.4
York .....	5.1	5.4	5.4	39.4	39.7	39.6	16.4	16.1	16.3

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Rhode Island</b> .....	459.1	463.5	462.3	.2	.2	.2	15.1	17.6	17.8
Providence-Fall River-Warwick .....	518.3	519.8	518.6	.2	.2	.2	17.3	20.2	20.3
<b>South Carolina</b> .....	1,757.0	1,831.3	1,828.1	1.9	1.9	1.9	103.0	112.3	113.1
Charleston-North Charleston .....	227.7	238.3	238.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.8	18.6	18.6
Columbia .....	288.4	297.1	297.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.8	16.7	16.8
Greenville-Spartanburg-Anderson .....	469.0	480.5	479.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	30.6	32.1	32.0
<b>South Dakota</b> .....	356.2	363.9	362.4	2.1	1.6	1.6	14.9	15.8	14.9
Rapid City .....	45.6	47.1	46.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	3.0	2.8
Sioux Falls .....	104.4	108.9	108.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	5.1	4.7
<b>Tennessee</b> .....	2,628.4	2,664.8	2,666.9	4.5	4.4	4.5	117.2	124.2	123.2
Chattanooga .....	225.4	227.2	227.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.7	10.3	10.3
Johnson City-Kingsport-Bristol .....	203.3	201.8	201.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.1	11.4	11.3
Knoxville .....	320.6	319.2	318.8	.6	.6	.6	15.5	15.3	15.5
Memphis .....	563.5	575.2	576.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.5	24.8	24.6
Nashville .....	640.1	646.5	648.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	31.6	34.8	34.7
<b>Texas</b> .....	8,821.3	9,030.3	9,047.8	168.4	163.4	162.9	467.8	493.4	490.5
Arlene .....	56.3	58.1	58.3	1.7	1.7	1.7	2.3	2.5	2.4
Amarillo .....	94.9	96.2	96.5	.6	.6	.6	4.8	4.9	4.8
Austin-San Marcos .....	581.9	603.3	602.5	1.2	1.3	1.3	30.8	34.5	34.5
Beaumont-Port Arthur .....	160.0	163.2	162.2	.8	.9	.9	15.2	14.6	14.7
Brazoria .....	75.3	76.0	75.9	1.4	1.3	1.3	9.6	8.9	8.7
Brownsville-Harlingen-San Benito .....	99.8	100.5	100.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.6	3.6
Bryan-College Station .....	70.7	72.1	71.9	.9	.8	.8	3.0	3.4	3.5
Corpus Christi .....	156.7	157.5	157.0	2.4	2.4	2.3	11.1	10.2	10.1
Dallas .....	1,819.9	1,866.9	1,873.5	11.6	11.6	11.7	85.2	89.3	89.2
El Paso .....	250.0	256.4	257.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.1	12.4	12.6
Ft. Worth-Arlington .....	725.1	745.4	748.0	4.3	4.3	4.3	34.7	37.5	37.1
Galveston-Texas City .....	89.1	90.5	91.0	.7	.7	.7	4.4	4.4	4.3
Houston .....	1,948.2	1,993.5	1,996.9	70.1	68.9	68.9	132.1	137.8	136.8
Killeen-Temple .....	99.1	102.7	103.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.3	4.2
Laredo .....	62.0	63.0	63.6	3.0	1.4	1.4	2.1	2.4	2.3
Longview-Marshall .....	89.9	91.2	91.3	3.4	3.3	3.2	4.4	4.7	4.6
Lubbock .....	115.9	119.4	119.6	.1	.1	.1	4.3	4.7	4.7
McAllen-Edinburg-Mission .....	142.7	142.3	144.1	1.2	1.1	1.1	7.3	7.3	7.4
Odessa-Midland .....	106.6	107.5	107.3	13.7	12.4	12.4	5.9	7.2	6.9
San Angelo .....	44.1	44.1	44.2	.7	.7	.7	1.9	1.9	1.9
San Antonio .....	680.0	700.4	702.0	2.0	2.0	2.0	35.1	37.9	37.7
Sherman-Denison .....	44.1	44.7	44.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.3	2.3
Texarkana .....	51.8	53.2	53.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.3	2.2
Tyler .....	78.4	81.4	81.8	1.6	1.6	1.6	2.9	3.1	3.1
Victoria .....	35.8	37.6	37.7	1.7	1.8	1.8	2.4	2.6	2.5
Waco .....	97.6	99.9	100.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	5.0	5.1
Wichita Falls .....	60.3	61.1	61.3	1.1	1.1	1.1	2.2	2.4	2.4
<b>Utah</b> .....	1,026.3	1,042.6	1,047.8	8.5	8.1	8.1	65.2	70.1	67.9
Provo-Orem .....	140.8	144.0	143.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	9.5	9.1
Salt Lake City-Ogden .....	690.5	703.8	708.0	3.0	2.8	2.8	43.3	46.0	45.8
<b>Vermont</b> .....	286.2	286.3	290.1	.6	.6	.6	13.2	14.2	13.5
Barre-Montpelier .....	30.9	31.6	31.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.4
Burlington .....	101.2	102.8	102.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.7	4.8
<b>Virginia</b> .....	3,306.9	3,375.5	3,384.2	10.9	11.1	11.1	188.7	200.3	198.9
Bristol .....	37.1	37.6	37.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.3
Charlottesville .....	82.3	86.9	86.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.3	4.3
Danville .....	46.4	47.1	47.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.4	2.4
Lynchburg .....	99.0	99.5	99.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	6.0	6.1
Norfolk-Virginia Beach-Newport News .....	673.2	681.8	684.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	40.3	41.4	41.1
Northern Virginia .....	1,027.0	1,060.4	1,067.7	.7	.8	.8	57.4	61.5	61.0
Richmond-Petersburg .....	536.0	541.6	543.2	.8	.7	.7	33.8	34.2	33.8
Roanoke .....	141.7	141.8	141.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.5	8.5	8.6
<b>Washington</b> .....	2,558.2	2,644.1	2,637.2	3.5	3.4	3.3	133.6	145.6	141.0
Seattle-Bellevue-Everett .....	1,343.4	1,375.3	1,380.4	.7	.7	.7	67.6	71.6	69.7
Spokane .....	190.4	187.3	186.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.7	10.0	9.5
Tacoma .....	232.2	238.9	239.2	.2	.2	.2	12.6	15.7	15.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Rhode Island</b> .....	80.9	79.4	78.6	15.9	16.1	16.0	101.0	101.2	102.1
Providence-Fall River-Warwick .....	104.0	102.6	101.7	18.0	18.1	18.2	120.0	117.7	119.5
<b>South Carolina</b> .....	363.6	363.8	364.3	77.4	79.9	80.5	431.0	450.5	454.1
Charleston-North Charleston .....	21.5	21.7	21.8	12.4	12.9	12.9	56.7	58.3	59.1
Columbia .....	26.0	26.5	26.5	12.7	13.1	13.1	68.5	70.3	71.4
Greenville-Spartanburg-Anderson .....	123.1	122.7	122.8	20.9	21.2	21.4	121.2	124.1	125.4
<b>South Dakota</b> .....	49.7	50.1	50.2	16.1	16.4	16.4	88.5	89.9	90.1
Rapid City .....	4.7	4.9	4.9	1.9	1.8	1.8	13.1	14.2	14.1
Sioux Falls .....	14.4	15.2	15.2	6.4	6.5	6.5	26.6	27.3	27.7
<b>Tennessee</b> .....	519.0	506.7	507.5	151.1	152.9	152.8	633.4	635.6	641.9
Chattanooga .....	42.7	43.2	43.2	11.9	12.2	12.2	55.6	54.8	55.4
Johnson City-Kingsport-Bristol .....	52.3	49.9	49.8	7.8	7.5	7.5	46.0	46.2	46.2
Knoxville .....	49.2	47.0	47.1	14.1	14.1	14.1	85.5	85.2	85.6
Memphis .....	62.9	62.7	62.4	61.9	65.0	66.1	144.3	147.1	148.2
Nashville .....	96.9	94.9	95.5	32.1	32.0	32.3	158.3	159.6	160.7
<b>Texas</b> .....	1,096.7	1,095.9	1,096.0	531.4	552.1	555.5	2,119.4	2,141.3	2,164.8
Abilene .....	3.2	3.3	3.4	2.5	2.5	2.5	14.9	15.2	15.5
Amarillo .....	9.4	9.4	9.5	5.6	5.8	5.9	26.9	27.0	27.3
Austin-San Marcos .....	77.8	75.4	75.3	19.2	20.0	20.2	126.6	131.5	133.3
Beaumont-Port Arthur .....	24.8	25.9	25.6	8.0	8.0	8.0	36.9	37.4	37.8
Brazoria .....	16.6	16.6	16.7	2.7	2.7	2.7	15.2	15.5	15.5
Brownsville-Harlingen-San Benito .....	12.2	12.1	12.0	4.4	4.7	4.7	24.5	24.2	24.8
Bryan-College Station .....	4.2	4.5	4.5	1.5	1.5	1.5	15.3	15.6	15.6
Corpus Christi .....	13.3	13.6	13.5	6.5	6.4	6.4	36.9	36.9	36.9
Dallas .....	249.0	252.5	252.9	124.9	131.9	133.1	445.2	448.8	453.1
El Paso .....	43.5	41.2	41.2	14.0	15.0	15.0	59.6	60.1	61.0
Ft. Worth-Arlington .....	110.3	111.4	111.4	67.8	70.6	70.8	189.2	193.2	196.4
Galveston-Texas City .....	8.1	8.0	8.1	4.3	4.5	4.5	19.5	20.2	20.3
Houston .....	214.6	214.9	214.6	137.2	139.9	140.1	454.1	458.8	465.2
Killeen-Temple .....	9.0	9.5	9.5	3.6	3.7	3.7	23.5	23.7	24.1
Laredo .....	1.6	1.6	1.6	10.5	11.3	11.5	17.1	17.4	17.8
Longview-Marshall .....	19.0	19.2	19.0	4.1	4.3	4.3	23.0	23.2	23.6
Lubbock .....	7.8	8.1	8.1	5.8	5.8	5.8	33.0	33.4	33.8
McAllen-Edinburg-Mission .....	13.8	12.8	12.9	4.8	5.0	5.0	40.7	40.1	41.3
Odessa-Midland .....	7.6	7.4	7.4	4.2	4.2	4.2	28.2	27.9	28.1
San Angelo .....	5.3	4.6	4.6	2.3	2.3	2.3	10.3	10.5	10.6
San Antonio .....	50.4	51.0	51.0	31.3	31.5	31.5	167.1	168.6	171.1
Sherman-Denison .....	10.6	10.1	10.1	1.6	1.7	1.7	9.9	10.0	10.0
Texarkana .....	6.0	5.8	5.8	2.2	2.3	2.4	13.7	14.0	14.0
Tyler .....	10.9	10.6	10.8	3.9	4.1	4.1	20.4	21.2	21.5
Victoria .....	3.2	3.2	3.2	1.5	1.7	1.7	9.5	9.9	10.0
Waco .....	16.4	16.6	16.6	4.0	3.9	4.0	22.8	23.2	23.5
Wichita Falls .....	8.6	8.4	8.3	2.9	2.8	2.8	14.0	14.1	14.3
<b>Utah</b> .....	134.9	136.2	136.4	58.5	58.6	59.5	251.2	249.1	252.6
Provo-Orem .....	20.5	20.3	20.2	2.3	2.3	2.3	31.9	32.2	32.6
Salt Lake City-Ogden .....	83.3	83.3	83.6	46.2	46.6	47.4	172.3	172.9	175.5
<b>Vermont</b> .....	47.5	48.8	48.9	12.3	12.3	12.3	66.3	66.1	67.1
Barre-Montpelier .....	3.7	3.7	3.7	1.1	1.1	1.1	6.9	6.8	7.0
Burlington .....	18.4	19.1	19.0	4.7	4.5	4.6	22.8	22.7	22.5
<b>Virginia</b> .....	408.0	405.6	404.8	172.5	175.4	175.7	756.3	757.7	765.6
Bristol .....	9.5	8.8	8.8	1.3	1.3	1.3	10.3	10.7	10.8
Charlottesville .....	8.2	8.4	8.4	2.3	2.4	2.4	16.9	17.4	17.7
Danville .....	15.3	15.5	15.6	1.0	1.1	1.1	10.3	10.3	10.4
Lynchburg .....	25.4	24.7	24.7	3.6	3.7	3.7	21.7	21.0	20.8
Norfolk-Virginia Beach-Newport News .....	69.0	68.3	69.2	32.4	33.2	33.5	160.9	162.4	163.6
Northern Virginia .....	44.6	45.7	45.8	61.3	62.6	62.9	225.3	223.8	228.4
Richmond-Petersburg .....	61.6	60.3	60.0	27.9	28.2	28.2	130.3	129.5	131.3
Roanoke .....	19.2	18.5	18.4	8.7	8.6	8.6	36.7	36.9	37.2
<b>Washington</b> .....	374.7	373.8	369.6	135.2	140.4	141.1	626.5	646.2	650.6
Seattle-Bellevue-Everett .....	226.2	226.3	226.8	80.1	82.2	84.0	319.3	322.3	327.3
Spokane .....	22.7	19.7	19.8	7.9	8.1	8.0	49.6	48.0	48.4
Tacoma .....	25.7	23.9	23.8	9.3	10.2	10.3	59.4	61.6	62.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Rhode Island</b> .....	26.5	28.2	28.2	153.1	155.4	153.8	66.4	65.4	65.6
Providence-Fall River-Warwick .....	28.4	29.3	29.1	163.2	165.5	163.2	67.2	66.2	66.4
<b>South Carolina</b> .....	75.6	79.4	80.1	398.5	423.5	422.8	306.0	320.0	311.3
Charleston-North Charleston .....	8.5	8.6	8.6	61.2	65.9	65.9	50.6	52.3	51.6
Columbia .....	20.4	21.0	21.1	70.0	72.3	72.4	75.0	77.2	76.6
Greenville-Spartanburg-Anderson .....	15.6	16.0	15.8	98.9	103.0	103.1	58.7	61.4	59.2
<b>South Dakota</b> .....	21.6	23.1	23.1	91.8	94.4	94.7	71.5	72.6	71.4
Rapid City .....	1.7	1.9	1.8	13.8	13.9	13.8	7.4	7.4	7.3
Sioux Falls .....	12.2	13.3	13.4	30.4	31.1	31.1	10.1	10.4	10.2
<b>Tennessee</b> .....	121.6	123.2	123.0	690.3	708.6	704.6	391.3	409.2	409.4
Chattanooga .....	15.5	15.6	15.6	55.6	56.7	56.5	34.4	34.4	34.5
Johnson City-Kingsport-Bristol .....	6.1	6.2	6.3	50.7	50.8	51.0	29.3	29.8	29.6
Knoxville .....	13.9	14.2	14.2	86.9	87.7	86.6	54.9	55.1	55.1
Memphis .....	27.9	28.1	28.2	162.0	163.4	163.6	80.0	84.1	83.8
Nashville .....	39.4	39.5	39.4	197.7	200.0	199.7	84.1	85.7	85.7
<b>Texas</b> .....	472.0	486.8	488.9	2,450.3	2,544.1	2,543.3	1,515.3	1,553.3	1,545.9
Abilene .....	2.4	2.5	2.5	19.2	20.1	20.0	10.1	10.3	10.3
Amarillo .....	4.9	5.1	5.1	25.7	26.5	26.4	17.0	16.9	16.9
Austin-San Marcos .....	30.2	30.6	30.7	167.0	175.8	176.0	129.1	134.2	131.2
Beaumont-Port Arthur .....	5.2	5.5	5.5	42.0	42.6	42.7	27.1	28.3	27.0
Brazoria .....	1.8	1.8	1.9	13.7	14.2	14.1	14.3	15.0	15.0
Brownsville-Harlingen-San Benito .....	3.6	3.7	3.7	28.1	28.5	28.6	23.4	23.7	23.5
Bryan-College Station .....	2.3	2.4	2.3	15.1	15.5	15.5	28.4	28.4	28.2
Corpus Christi .....	6.5	6.4	6.4	48.7	49.6	49.6	31.3	32.0	31.8
Dallas .....	142.4	146.6	147.3	558.7	577.8	578.0	202.9	208.4	208.2
El Paso .....	9.9	10.5	10.5	56.0	59.6	59.8	54.9	57.6	57.7
Ft. Worth-Arlington .....	32.3	33.2	33.4	193.7	202.5	201.7	92.8	92.7	92.9
Galveston-Texas City .....	5.5	5.5	5.6	19.1	19.5	19.9	27.5	27.7	27.6
Houston .....	102.3	105.7	106.1	584.3	605.9	606.7	253.5	261.6	258.5
Killeen-Temple .....	4.1	4.3	4.4	27.2	28.4	28.3	27.6	28.8	28.8
Laredo .....	2.3	2.6	2.6	11.0	11.7	11.7	14.4	14.6	14.7
Longview-Marshall .....	3.2	3.3	3.3	20.9	21.4	21.5	11.9	11.8	11.8
Lubbock .....	5.6	5.7	5.8	34.2	35.9	35.8	25.1	25.7	25.5
McAllen-Edinburg-Mission .....	5.0	5.0	5.0	31.9	32.5	32.8	38.0	38.5	38.6
Odessa-Midland .....	3.6	3.5	3.5	24.8	25.4	25.4	18.6	19.5	19.4
San Angelo .....	1.6	1.6	1.6	13.0	13.4	13.4	9.0	9.1	9.1
San Antonio .....	45.2	45.6	45.9	213.9	227.3	226.5	135.0	136.5	136.3
Sherman-Denison .....	2.1	2.1	2.1	12.2	12.7	12.8	5.6	5.8	5.8
Texarkana .....	1.7	1.8	1.8	14.3	15.1	15.1	11.8	11.9	11.9
Tyler .....	4.1	4.2	4.2	23.4	25.4	25.4	11.2	11.2	11.1
Victoria .....	1.4	1.3	1.3	9.7	10.0	10.1	6.4	7.1	7.1
Waco .....	5.6	6.0	6.0	29.0	29.8	29.5	15.2	15.4	15.4
Wichita Falls .....	2.2	2.2	2.2	16.5	17.0	17.0	12.8	13.1	13.2
<b>Utah</b> .....	54.4	54.1	54.4	277.8	284.0	287.4	175.8	182.4	181.5
Provo-Orem .....	4.2	4.4	4.4	53.4	54.4	54.5	19.4	20.9	20.8
Salt Lake City-Ogden .....	44.8	44.9	44.8	185.4	193.1	195.1	112.2	114.2	113.0
<b>Vermont</b> .....	12.1	12.3	12.3	86.0	83.6	87.0	48.2	48.4	48.4
Barre-Montpelier .....	2.4	2.4	2.4	8.4	8.8	8.8	7.1	7.3	7.2
Burlington .....	5.1	5.1	5.1	29.0	29.9	30.0	16.4	16.8	16.8
<b>Virginia</b> .....	169.6	172.9	174.5	994.2	1,036.5	1,040.1	606.7	616.0	613.5
Bristol .....	1.3	1.3	1.3	7.7	8.4	8.5	5.6	5.7	5.6
Charlottesville .....	4.2	4.4	4.4	19.9	20.4	20.3	26.4	29.6	29.3
Danville .....	1.4	1.5	1.5	10.1	10.3	10.3	6.0	6.0	6.0
Lynchburg .....	4.4	4.2	4.2	25.5	27.2	27.3	12.6	12.7	12.7
Norfolk-Virginia Beach-Newport News .....	31.5	32.6	32.9	193.5	197.9	198.0	145.6	146.0	146.0
Northern Virginia .....	55.7	57.0	57.4	403.4	425.4	428.4	178.6	183.6	183.0
Richmond-Petersburg .....	44.3	44.3	44.4	140.0	145.1	145.7	97.3	99.3	99.1
Roanoke .....	9.2	9.4	9.5	41.7	41.9	41.7	17.7	18.0	17.8
<b>Washington</b> .....	131.1	136.8	137.5	688.1	722.3	724.2	465.5	475.6	469.9
Seattle-Bellevue-Everett .....	81.2	84.0	84.7	386.4	400.1	401.8	181.9	188.1	185.4
Spokane .....	10.9	11.0	11.1	57.0	57.5	57.9	31.6	33.0	32.2
Tacoma .....	11.8	12.4	12.6	65.0	65.5	65.7	48.2	49.4	49.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>West Virginia</b> .....	721.0	732.7	732.1	23.7	23.2	23.0	34.6	37.7	36.0
Charleston .....	133.1	136.1	136.6	2.0	1.8	1.8	7.0	7.3	7.1
Huntington-Ashland .....	122.0	122.9	123.5	1.3	1.2	1.3	5.6	5.2	4.8
Parkersburg-Marietta .....	70.6	71.7	71.4	.3	.3	.3	4.3	4.4	4.3
Wheeling .....	67.3	68.0	67.8	1.6	1.5	1.5	2.3	3.0	2.7
<b>Wisconsin</b> .....	2,704.0	2,752.1	2,746.8	2.4	2.4	2.1	107.8	121.0	115.3
Appleton-Oshkosh-Neenah .....	195.3	201.0	201.4	(1)	(1)	(1)	10.3	11.9	11.8
Eau Claire .....	73.6	76.1	75.4	(1)	(1)	(1)	2.7	3.5	2.9
Green Bay .....	136.3	136.5	136.7	(1)	(1)	(1)	6.6	6.9	6.4
Janesville-Beloit .....	69.9	69.6	69.3	(1)	(1)	(1)	2.8	2.9	2.8
Kenosha .....	51.9	53.3	53.2	(1)	(1)	(1)	2.2	2.2	2.2
La Crosse .....	69.8	70.5	70.6	(1)	(1)	(1)	2.5	3.0	2.5
Madison .....	271.6	281.3	280.5	(1)	(1)	(1)	12.3	14.1	13.9
Milwaukee-Waukesha .....	847.9	862.2	863.1	(1)	(1)	(1)	31.0	33.6	33.0
Racine .....	83.3	84.0	84.6	(1)	(1)	(1)	3.1	3.6	3.2
Sheboygan .....	58.5	58.7	59.0	(1)	(1)	(1)	2.4	2.5	2.5
Wausau .....	65.8	67.2	67.0	(1)	(1)	(1)	2.9	3.4	3.3
<b>Wyoming</b> .....	221.6	226.2	226.3	16.9	17.5	17.7	14.3	15.9	15.3
Casper .....	30.3	31.4	31.3	2.2	2.2	2.2	1.6	2.0	2.0
<b>Puerto Rico</b> .....	983.7	950.3	961.4	1.1	1.2	1.2	55.5	56.2	55.7
Caguas .....	68.4	65.0	66.1	(1)	(1)	(1)	3.0	3.3	3.2
Mayaguez .....	69.6	67.6	68.6	(1)	(1)	(1)	4.7	4.7	4.7
Ponce .....	77.5	76.5	77.5	(1)	(1)	(1)	4.8	6.2	6.1
San Juan-Bayamon .....	614.1	594.5	600.8	.6	.6	.6	37.5	37.9	38.2
<b>Virgin Islands</b> .....	41.5	41.6	41.7	(1)	(1)	(1)	1.8	1.8	1.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>West Virginia</b> .....	82.5	82.7	82.5	38.9	39.8	39.6	167.8	168.1	169.0
Charleston .....	10.3	10.1	10.0	9.3	9.2	9.2	32.2	33.0	33.7
Huntington-Ashland .....	17.0	15.6	15.8	6.7	6.9	6.9	32.2	32.7	32.9
Parkersburg-Marietta .....	13.5	13.3	13.3	2.6	2.5	2.5	17.6	18.6	18.6
Wheeling .....	6.2	6.2	6.2	2.9	3.0	3.0	17.6	17.0	17.4
<b>Wisconsin</b> .....	615.2	615.8	615.5	124.1	125.7	126.2	623.8	629.6	633.3
Appleton-Oshkosh-Neenah .....	58.5	58.5	58.7	7.4	7.8	7.9	43.0	44.3	44.5
Eau Claire .....	12.7	13.5	13.6	3.6	3.4	3.5	20.4	20.9	20.9
Green Bay .....	28.5	28.7	28.7	9.9	9.8	9.9	32.3	32.1	32.6
Janesville-Beloit .....	21.8	21.7	21.6	2.6	2.6	2.7	16.1	15.7	15.7
Kenosha .....	11.6	11.6	11.5	2.2	2.4	2.4	12.5	12.5	12.6
La Crosse .....	11.9	11.7	11.8	2.9	2.9	3.1	18.8	19.0	18.9
Madison .....	29.6	30.1	30.0	9.6	10.1	10.1	59.5	59.0	59.3
Milwaukee-Waukesha .....	178.5	178.6	178.9	40.4	41.6	41.6	185.1	186.5	188.3
Racine .....	26.0	25.9	26.0	2.4	2.3	2.3	16.7	17.3	17.4
Sheboygan .....	23.9	23.8	23.8	1.8	1.9	1.9	10.9	10.9	11.0
Wausau .....	18.6	19.0	18.7	3.4	3.4	3.3	16.6	16.9	17.1
<b>Wyoming</b> .....	11.1	11.3	11.2	14.0	14.0	14.1	52.1	52.4	52.9
Casper .....	1.5	1.6	1.6	1.7	1.7	1.7	8.5	8.6	8.7
<b>Puerto Rico</b> .....	148.1	141.1	142.1	26.0	25.1	25.0	207.7	197.6	206.5
Caguas .....	16.0	14.8	14.8	.7	.6	.6	16.1	15.1	15.8
Mayaguez .....	18.1	18.7	18.6	.6	.5	.5	12.3	11.8	12.7
Ponce .....	10.2	9.0	9.0	2.3	2.4	2.5	14.3	13.5	14.2
San Juan-Bayamon .....	67.6	62.6	62.4	20.6	18.4	18.4	136.1	130.4	135.3
<b>Virgin Islands</b> .....	2.2	2.5	2.5	2.4	2.4	2.4	9.3	9.1	9.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>West Virginia</b> .....	28.5	29.1	29.2	202.4	209.3	209.5	142.6	142.8	143.3
Charleston .....	7.6	8.0	8.0	40.7	42.4	42.2	24.0	24.3	24.6
Huntington-Ashland .....	3.9	4.3	4.4	34.4	35.9	36.3	20.9	21.1	21.1
Parkersburg-Marietta .....	2.6	2.6	2.6	20.0	20.4	20.2	9.7	9.6	9.6
Wheeling .....	2.9	2.9	2.9	23.3	24.0	23.7	10.5	10.4	10.4
<b>Wisconsin</b> .....	141.9	145.5	146.3	691.5	706.5	706.7	397.4	405.5	401.5
Appleton-Oshkosh-Neenah .....	9.8	10.2	10.2	44.1	44.7	45.0	22.2	23.5	23.3
Eau Claire .....	2.6	2.7	2.7	19.4	19.7	19.6	12.3	12.5	12.2
Green Bay .....	9.5	9.3	9.3	33.4	33.4	33.6	16.1	16.3	16.2
Janesville-Beloit .....	1.8	1.9	1.9	16.0	15.9	15.8	8.8	8.8	8.8
Kenosha .....	1.7	1.8	1.8	13.6	14.1	14.0	8.2	8.6	8.6
La Crosse .....	2.5	2.7	2.8	20.8	20.8	20.9	10.4	10.4	10.6
Madison .....	21.6	22.3	22.4	68.3	71.2	71.5	70.8	74.4	73.2
Milwaukee-Waukesha .....	58.5	59.8	60.0	262.3	269.2	268.3	92.0	92.9	93.0
Racine .....	2.4	2.3	2.3	23.3	23.1	23.3	9.5	9.6	10.0
Sheboygan .....	2.1	2.3	2.3	11.0	11.0	11.1	6.3	6.4	6.4
Wausau .....	4.8	4.9	4.9	12.1	12.0	12.0	7.5	7.6	7.6
<b>Wyoming</b> .....	8.2	8.5	8.4	46.3	47.0	47.6	58.7	59.6	59.1
Casper .....	1.2	1.2	1.2	8.1	8.5	8.3	5.5	5.6	5.6
<b>Puerto Rico</b> .....	46.6	45.3	45.8	193.0	188.4	188.1	305.7	295.4	297.0
Caguas .....	1.8	1.8	1.9	12.1	11.6	11.9	18.7	17.8	17.9
Mayaguez .....	2.0	1.8	1.8	11.1	9.8	9.9	20.8	20.3	20.4
Ponce .....	2.4	2.3	2.4	16.9	17.0	17.2	26.6	26.1	26.1
San Juan-Bayamon .....	36.4	35.5	35.7	130.0	129.9	130.4	185.3	179.2	179.8
<b>Virgin Islands</b> .....	1.9	1.9	1.9	10.5	10.3	10.3	13.4	13.6	13.6

<sup>1</sup> Combined with construction.  
<sup>2</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 1997 benchmarks.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Total private</b> .....		34.8	34.2	34.7	34.7	34.0	-	-	-	-	-
<b>Goods-producing</b> .....		42.0	40.9	41.2	41.7	40.4	-	-	-	-	-
<b>Mining</b> .....		45.2	45.0	43.9	43.6	42.5	-	-	-	-	-
Metal mining .....	10	44.5	43.8	44.3	43.7	-	-	-	-	-	-
Iron ores .....	101	45.5	46.2	43.5	43.5	-	-	-	-	-	-
Copper ores .....	102	46.2	44.8	46.8	46.6	-	-	-	-	-	-
Coal mining .....	12	44.8	45.2	45.8	45.5	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	44.8	45.3	45.8	45.6	-	-	-	-	-	-
Oil and gas extraction .....	13	45.1	45.2	42.6	42.2	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	41.6	43.8	42.0	42.8	-	-	-	-	-	-
Oil and gas field services .....	138	46.8	45.9	42.9	42.0	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	46.6	44.7	45.8	45.7	-	-	-	-	-	-
Crushed and broken stone .....	142	48.0	45.7	47.9	48.2	-	-	-	-	-	-
<b>Construction</b> .....		38.5	37.4	38.5	39.0	37.7	-	-	-	-	-
General building contractors .....	15	38.2	37.0	37.8	38.4	-	-	-	-	-	-
Residential building construction .....	152	36.7	35.5	36.7	37.1	-	-	-	-	-	-
Operative builders .....	153	37.9	37.5	35.2	36.0	-	-	-	-	-	-
Nonresidential building construction .....	154	39.7	38.5	39.1	39.8	-	-	-	-	-	-
Heavy construction, except building .....	16	40.9	39.5	41.1	41.2	-	-	-	-	-	-
Highway and street construction .....	161	38.8	37.2	40.3	39.8	-	-	-	-	-	-
Heavy construction, except highway .....	162	41.6	40.2	41.5	41.8	-	-	-	-	-	-
Special trade contractors .....	17	38.1	37.1	38.1	38.8	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	39.7	39.2	39.3	39.8	-	-	-	-	-	-
Painting and paper hanging .....	172	36.8	35.5	36.6	37.0	-	-	-	-	-	-
Electrical work .....	173	40.3	39.7	39.7	40.6	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	35.4	34.7	35.8	36.5	-	-	-	-	-	-
Carpentry and floor work .....	175	36.2	34.7	37.1	37.0	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	33.3	30.6	34.1	35.2	-	-	-	-	-	-
<b>Manufacturing</b> .....		43.0	41.9	42.1	42.6	41.3	5.4	4.7	4.8	4.9	4.3
<b>Durable goods</b> .....		43.9	42.6	42.7	43.3	41.8	5.8	5.0	4.9	5.1	4.4
Lumber and wood products .....	24	41.2	40.2	41.5	41.7	40.5	4.4	3.9	4.6	4.7	-
Logging .....	241	40.7	38.3	40.4	39.3	-	5.4	4.6	5.3	5.1	-
Sawmills and planing mills .....	242	42.4	41.7	42.4	42.6	-	5.1	4.8	4.9	5.0	-
Sawmills and planing mills, general .....	2421	42.6	42.0	42.8	42.9	-	5.5	5.2	5.3	5.4	-
Hardwood dimension and flooring mills .....	2426	41.6	40.9	41.3	42.0	-	3.7	3.4	3.6	3.9	-
Millwork, plywood, and structural members .....	243	41.7	40.7	42.4	43.0	-	4.6	3.9	5.1	5.5	-
Millwork .....	2431	41.2	39.8	42.4	43.0	-	3.6	2.8	4.7	4.4	-
Wood kitchen cabinets .....	2434	41.5	40.7	41.4	42.7	-	5.5	4.4	4.8	6.0	-
Hardwood veneer and plywood .....	2435	43.0	42.7	43.0	42.4	-	5.3	5.1	5.8	5.4	-
Softwood veneer and plywood .....	2436	44.1	42.7	44.3	44.5	-	5.8	5.8	6.7	6.9	-
Wood containers .....	244	39.9	38.8	39.1	39.8	-	3.9	3.3	3.4	4.0	-
Wood buildings and mobile homes .....	245	38.6	37.4	39.4	39.4	-	2.7	2.2	2.8	2.8	-
Mobile homes .....	2451	38.5	37.4	39.4	39.5	-	2.7	2.1	2.6	2.7	-
Miscellaneous wood products .....	249	40.6	40.4	41.2	40.9	-	3.5	3.3	4.1	3.6	-
Furniture and fixtures .....	25	42.1	40.6	40.8	41.6	40.2	4.3	3.6	3.6	4.0	-
Household furniture .....	251	41.2	40.2	39.8	40.9	-	3.8	3.5	2.9	3.5	-
Wood household furniture .....	2511	41.3	40.2	40.4	40.6	-	3.2	2.8	3.3	3.3	-
Upholstered household furniture .....	2512	41.9	40.0	39.3	41.5	-	4.2	3.6	2.4	3.7	-
Metal household furniture .....	2514	40.8	41.5	39.8	41.1	-	5.6	7.0	3.4	4.1	-
Mattresses and bedspings .....	2515	39.1	40.1	38.6	40.4	-	3.4	3.8	2.7	3.6	-
Office furniture .....	252	45.4	42.3	43.8	43.6	-	6.0	4.4	4.5	4.6	-
Public building and related furniture .....	253	41.1	40.6	41.0	41.9	-	4.0	3.8	4.7	5.4	-
Partitions and fixtures .....	254	43.1	41.8	42.1	42.4	-	4.7	3.7	4.3	4.4	-
Miscellaneous furniture and fixtures .....	259	43.3	39.0	41.1	41.5	-	5.6	3.3	4.4	4.4	-

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Total private</b> .....		\$12.53	\$12.60	\$12.99	\$12.99	\$13.10	\$436.04	\$430.92	\$450.75	\$450.75	\$445.40
<b>Goods-producing</b> .....		14.21	14.10	14.49	14.55	14.46	596.82	576.69	596.99	606.74	584.18
<b>Mining</b> .....		16.52	16.65	17.34	17.39	17.35	746.70	749.25	761.23	758.20	737.38
Metal mining .....	10	18.02	17.94	18.46	18.22	—	801.89	785.77	817.78	796.21	—
Iron ores .....	101	19.16	18.93	20.39	20.37	—	871.78	874.57	886.97	886.10	—
Copper ores .....	102	16.38	16.36	17.10	16.87	—	756.76	732.93	800.28	786.14	—
Coal mining .....	12	19.47	19.30	19.26	19.40	—	872.26	872.36	882.11	882.70	—
Bituminous coal and lignite mining .....	122	19.73	19.53	19.50	19.66	—	883.90	884.71	893.10	896.50	—
Oil and gas extraction .....	13	16.10	16.33	17.41	17.50	—	726.11	738.12	741.67	738.50	—
Crude petroleum and natural gas .....	131	21.99	22.34	23.56	23.60	—	914.78	978.49	989.52	1,010.08	—
Oil and gas field services .....	138	13.47	13.47	14.16	14.03	—	630.40	618.27	607.46	589.26	—
Nonmetallic minerals, except fuels .....	14	14.36	14.26	14.96	14.94	—	669.18	637.42	685.17	682.76	—
Crushed and broken stone .....	142	13.72	13.58	14.11	14.14	—	658.56	620.61	675.87	681.55	—
<b>Construction</b> .....		16.37	16.25	16.79	16.85	16.73	630.25	607.75	646.42	657.15	630.72
General building contractors .....	15	15.67	15.61	16.13	16.21	—	598.59	577.57	609.71	622.46	—
Residential building construction .....	152	14.62	14.66	15.01	15.03	—	536.55	520.43	550.87	557.61	—
Operative builders .....	153	15.38	15.19	15.40	15.58	—	582.90	569.63	542.08	560.88	—
Nonresidential building construction .....	154	16.66	16.51	17.26	17.38	—	661.40	635.64	674.87	691.72	—
Heavy construction, except building .....	16	15.59	15.29	16.47	16.28	—	637.63	603.96	676.92	670.74	—
Highway and street construction .....	161	15.33	14.82	16.27	15.99	—	594.80	551.30	655.68	636.40	—
Heavy construction, except highway .....	162	15.67	15.42	16.55	16.38	—	651.87	619.88	686.83	684.68	—
Special trade contractors .....	17	16.78	16.68	17.09	17.19	—	639.32	618.83	651.13	666.97	—
Plumbing, heating, and air conditioning .....	171	17.06	16.99	17.26	17.44	—	677.28	666.01	678.32	694.11	—
Painting and paper hanging .....	172	15.01	14.80	15.57	15.50	—	552.37	525.40	569.86	573.50	—
Electrical work .....	173	18.21	18.12	18.61	18.74	—	733.86	719.36	738.82	760.84	—
Masonry, stonework, and plastering .....	174	16.48	16.31	16.89	16.96	—	583.39	565.96	604.66	619.04	—
Carpentry and floor work .....	175	16.67	16.32	16.75	16.63	—	603.45	566.30	621.43	615.31	—
Roofing, siding, and sheet metal work .....	176	14.61	14.31	14.92	15.08	—	486.51	437.89	508.77	530.82	—
<b>Manufacturing</b> .....		13.47	13.40	13.60	13.68	13.67	579.21	561.46	572.56	582.77	564.57
<b>Durable goods</b> .....		14.07	13.96	14.08	14.16	14.12	617.67	594.70	601.22	613.13	590.22
Lumber and wood products .....	24	10.93	10.90	11.25	11.35	11.31	450.32	438.18	466.88	473.30	458.06
Logging .....	241	12.24	12.06	12.83	12.92	—	498.17	461.90	518.33	507.76	—
Sawmills and planing mills .....	242	10.98	11.04	11.20	11.20	—	465.55	460.37	474.88	477.12	—
Sawmills and planing mills, general .....	2421	11.42	11.47	11.64	11.67	—	486.49	481.74	498.19	500.64	—
Hardwood dimension and flooring mills .....	2426	9.31	9.44	9.60	9.54	—	387.30	386.10	396.48	400.68	—
Millwork, plywood, and structural members .....	243	11.04	10.98	11.41	11.57	—	460.37	446.89	483.78	497.51	—
Millwork .....	2431	11.06	10.97	11.51	11.49	—	455.67	436.61	488.02	494.07	—
Wood kitchen cabinets .....	2434	10.91	10.90	11.22	11.73	—	452.77	443.63	464.51	500.87	—
Hardwood veneer and plywood .....	2435	9.80	9.75	10.16	10.26	—	421.40	416.33	436.88	435.02	—
Softwood veneer and plywood .....	2436	13.21	13.20	13.60	13.47	—	582.56	563.64	602.48	599.42	—
Wood containers .....	244	8.61	8.61	9.01	9.13	—	343.54	334.07	352.29	363.37	—
Wood buildings and mobile homes .....	245	11.30	11.27	11.43	11.60	—	436.18	421.50	450.34	457.04	—
Mobile homes .....	2451	11.53	11.47	11.60	11.79	—	443.91	428.98	457.04	465.71	—
Miscellaneous wood products .....	249	10.37	10.40	10.62	10.64	—	421.02	420.16	437.54	435.18	—
Furniture and fixtures .....	25	10.79	10.75	10.98	11.09	11.07	454.26	436.45	447.98	461.34	445.01
Household furniture .....	251	10.19	10.16	10.38	10.51	—	419.83	408.43	413.12	429.86	—
Wood household furniture .....	2511	9.65	9.67	10.00	10.02	—	398.55	388.73	404.00	406.81	—
Upholstered household furniture .....	2512	10.97	10.86	11.11	11.29	—	459.64	434.40	436.62	468.54	—
Metal household furniture .....	2514	9.75	9.86	9.78	9.76	—	397.80	409.19	389.24	401.14	—
Mattresses and bedsprings .....	2515	10.67	10.77	10.86	11.14	—	417.20	431.88	419.20	450.06	—
Office furniture .....	252	11.85	11.69	11.88	12.03	—	537.99	494.49	520.34	524.51	—
Public building and related furniture .....	253	11.75	11.68	12.33	12.53	—	482.93	474.21	505.53	525.01	—
Partitions and fixtures .....	254	11.55	11.62	11.60	11.58	—	497.81	485.72	488.36	490.99	—
Miscellaneous furniture and fixtures .....	259	10.80	10.78	11.06	11.20	—	467.64	420.42	454.57	464.80	—

See footnotes at end of table.



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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	43.7	42.3	43.7	43.7	42.4	5.8	5.2	6.4	6.3	—
Flat glass .....	321	46.0	45.4	42.6	43.5	—	7.2	7.5	6.9	6.9	—
Glass and glassware, pressed or blown .....	322	43.3	42.5	42.9	42.9	—	4.8	4.4	5.5	5.4	—
Glass containers .....	3221	45.8	44.4	44.6	44.6	—	6.4	6.0	6.7	6.6	—
Pressed and blown glass, nec .....	3229	41.8	41.4	41.9	41.8	—	3.8	3.5	4.8	4.7	—
Products of purchased glass .....	323	43.3	41.7	43.7	43.6	—	5.4	4.6	5.2	5.6	—
Cement, hydraulic .....	324	45.5	46.6	44.9	44.1	—	5.7	7.3	5.4	5.3	—
Structural clay products .....	325	42.7	42.0	42.1	42.5	—	4.7	4.3	5.0	5.1	—
Pottery and related products .....	326	42.4	41.1	41.8	42.6	—	5.2	4.4	4.9	5.1	—
Concrete, gypsum, and plaster products .....	327	43.9	41.7	45.1	44.7	—	6.5	5.6	7.9	7.4	—
Concrete block and brick .....	3271	44.7	44.6	47.5	47.8	—	7.3	6.9	9.8	9.7	—
Concrete products, nec .....	3272	44.5	42.5	45.2	44.7	—	6.4	5.7	7.8	7.2	—
Ready-mixed concrete .....	3273	42.5	39.4	44.1	43.6	—	6.0	4.7	7.5	6.9	—
Misc. nonmetallic mineral products .....	329	44.3	43.6	43.0	44.1	—	5.9	5.3	5.4	5.9	—
Abrasive products .....	3291	44.2	42.9	42.0	42.7	—	4.5	3.7	3.0	3.3	—
Asbestos products .....	3292	48.5	46.4	48.8	52.9	—	8.7	6.2	10.9	11.8	—
Primary metal industries .....	33	46.1	45.4	44.2	44.7	43.8	7.3	6.8	6.3	6.5	—
Blast furnaces and basic steel products .....	331	46.0	46.2	43.7	44.2	44.1	6.7	6.8	5.2	5.5	—
Blast furnaces and steel mills .....	3312	46.2	46.8	44.1	44.1	—	6.8	7.0	5.4	5.4	—
Steel pipe and tubes .....	3317	46.4	45.9	43.6	46.2	—	7.8	7.5	5.5	6.9	—
Iron and steel foundries .....	332	47.8	45.6	45.0	45.6	—	8.1	6.6	6.5	6.8	—
Gray and ductile iron foundries .....	3321	48.6	46.0	45.7	46.9	—	9.1	7.1	7.3	8.0	—
Malleable iron foundries .....	3322	53.6	49.6	46.5	44.0	—	9.8	7.5	7.7	6.9	—
Steel foundries, nec .....	3325	45.5	45.0	43.9	43.7	—	6.7	6.5	5.3	5.2	—
Primary nonferrous metals .....	333	45.1	44.3	43.3	43.7	—	6.2	5.9	7.3	6.6	—
Primary aluminum .....	3334	45.2	44.5	44.0	44.4	—	6.2	5.9	8.2	7.1	—
Nonferrous rolling and drawing .....	335	46.2	45.9	44.3	44.5	—	8.4	7.9	7.5	7.9	—
Copper rolling and drawing .....	3351	44.9	45.4	44.5	45.0	—	8.0	7.9	8.6	8.6	—
Aluminum sheet, plate, and foil .....	3353	47.5	48.0	42.3	43.8	—	10.4	10.3	9.4	10.1	—
Nonferrous wire drawing and insulating .....	3357	46.7	45.2	44.8	44.9	—	8.4	7.8	7.2	7.6	—
Nonferrous foundries (castings) .....	336	44.7	43.5	44.5	45.1	—	6.2	5.3	5.8	6.2	—
Aluminum foundries .....	3365	44.2	42.4	44.9	45.0	—	5.5	4.8	6.0	6.3	—
Fabricated metal products .....	34	44.0	42.6	42.8	43.4	41.8	5.8	5.0	4.9	5.2	—
Metal cans and shipping containers .....	341	43.9	43.8	44.0	43.8	—	5.7	5.6	6.7	6.5	—
Metal cans .....	3411	44.7	44.2	44.1	43.6	—	5.7	5.6	6.7	6.4	—
Cutlery, handtools, and hardware .....	342	44.7	42.5	42.9	43.5	—	5.6	4.5	4.5	4.8	—
Hand and edge tools, and blades and handsaws .....	3423,5	44.9	43.5	44.1	44.3	—	5.4	4.8	5.2	5.0	—
Hardware, nec .....	3429	44.8	42.2	42.2	43.5	—	5.8	4.5	4.1	4.9	—
Plumbing and heating, except electric .....	343	42.8	41.7	43.3	43.4	—	5.2	3.8	4.0	4.6	—
Plumbing fixture fittings and trim .....	3432	43.3	41.8	41.4	42.5	—	5.6	4.7	3.3	4.2	—
Heating equipment, except electric .....	3433	42.9	40.9	43.5	42.8	—	5.2	2.8	5.0	4.6	—
Fabricated structural metal products .....	344	43.4	42.0	42.8	43.6	—	5.3	4.6	5.2	5.5	—
Fabricated structural metal .....	3441	44.5	43.0	44.7	46.1	—	6.9	5.9	7.0	7.6	—
Metal doors, sash, and trim .....	3442	41.8	40.7	41.7	42.1	—	3.9	3.0	4.1	4.2	—
Fabricated plate work (boiler shops) .....	3443	45.1	43.6	43.3	44.3	—	6.1	5.8	5.3	5.7	—
Sheet metal work .....	3444	42.4	40.9	41.7	42.1	—	4.6	4.0	4.3	4.4	—
Architectural metal work .....	3446	42.7	41.7	42.5	42.4	—	4.6	4.2	5.2	4.8	—
Screw machine products, bolts, etc .....	345	45.7	44.5	43.4	43.9	—	7.1	6.6	5.1	5.7	—
Screw machine products .....	3451	43.9	43.4	41.7	42.2	—	6.2	5.9	4.3	4.7	—
Bolts, nuts, rivets, and washers .....	3452	47.8	45.7	45.3	45.9	—	8.1	7.4	6.0	6.9	—
Metal forgings and stampings .....	346	45.2	43.4	43.8	44.5	—	6.9	5.7	5.6	5.8	—
Iron and steel forgings .....	3462	47.1	45.9	44.3	44.1	—	7.8	7.1	5.8	5.9	—
Automotive stampings .....	3465	45.9	43.8	44.7	45.8	—	7.6	5.8	6.3	6.4	—
Metal stampings, nec .....	3469	42.9	41.5	41.9	42.2	—	5.3	4.6	4.3	4.5	—
Metal services, nec .....	347	42.7	41.4	41.6	42.2	—	5.6	5.0	5.0	4.9	—
Plating and polishing .....	3471	42.0	40.7	41.4	42.0	—	5.3	4.5	5.0	4.9	—
Metal coating and allied services .....	3479	43.8	42.6	42.0	42.5	—	6.0	5.7	4.9	4.9	—
Ordnance and accessories, nec .....	348	41.0	40.3	40.6	41.8	—	3.7	3.4	3.5	3.8	—
Ammunition, except for small arms, nec .....	3483	42.3	41.6	41.9	43.5	—	4.0	3.5	3.4	3.4	—
Misc. fabricated metal products .....	349	44.1	43.1	42.0	42.7	—	5.4	4.8	3.9	4.6	—
Valves and pipe fittings, nec .....	3494	43.5	41.9	41.8	42.2	—	4.5	4.0	4.0	4.4	—
Misc. fabricated wire products .....	3496	41.8	41.3	40.4	41.3	—	3.9	3.9	3.7	4.6	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
		<b>Durable goods—Continued</b>									
Stone, clay, and glass products .....	32	\$13.39	\$13.39	\$13.66	\$13.72	\$13.68	\$585.14	\$566.40	\$596.94	\$599.56	\$580.03
Flat glass .....	321	19.16	19.23	18.05	17.57	—	881.36	873.04	768.93	764.30	—
Glass and glassware, pressed or blown .....	322	15.24	15.17	15.55	15.75	—	659.89	644.73	667.10	675.68	—
Glass containers .....	3221	15.86	16.02	16.40	16.56	—	726.39	711.29	731.44	738.58	—
Pressed and blown glass, nec .....	3229	14.82	14.61	14.99	15.20	—	619.48	604.85	628.08	635.36	—
Products of purchased glass .....	323	12.06	12.20	12.12	12.48	—	522.20	508.74	529.64	544.13	—
Cement, hydraulic .....	324	17.82	18.28	19.19	18.93	—	810.81	851.85	861.63	834.81	—
Structural clay products .....	325	11.59	11.67	12.03	12.13	—	494.89	490.14	506.46	515.53	—
Pottery and related products .....	326	11.67	11.75	11.82	11.98	—	494.81	482.93	494.08	510.35	—
Concrete, gypsum, and plaster products .....	327	12.80	12.53	13.25	13.22	—	561.92	522.50	597.58	590.93	—
Concrete block and brick .....	3271	12.35	12.18	12.54	12.53	—	552.05	543.23	595.65	598.93	—
Concrete products, nec .....	3272	11.49	11.27	11.86	11.96	—	511.31	478.98	536.07	534.61	—
Ready-mixed concrete .....	3273	13.61	13.29	14.11	13.98	—	578.43	523.63	622.25	609.53	—
Misc. nonmetallic mineral products .....	329	13.76	13.84	13.82	13.85	—	609.57	603.42	594.26	610.79	—
Abrasive products .....	3291	12.24	12.40	12.65	12.79	—	541.01	531.96	531.30	546.13	—
Asbestos products .....	3292	15.66	15.16	14.95	14.99	—	759.51	703.42	729.56	792.97	—
Primary metal industries .....	33	15.42	15.47	15.35	15.36	15.38	710.86	702.34	678.47	686.59	673.64
Blast furnaces and basic steel products .....	331	18.15	18.33	18.31	18.11	18.37	834.90	846.85	800.15	800.46	810.12
Blast furnaces and steel mills .....	3312	19.75	19.93	20.00	19.72	—	912.45	932.72	882.00	869.65	—
Steel pipe and tubes .....	3317	14.30	14.41	13.87	14.09	—	663.52	661.42	604.73	650.96	—
Iron and steel foundries .....	332	14.19	14.04	13.82	14.06	—	678.28	640.22	621.90	641.14	—
Gray and ductile iron foundries .....	3321	15.18	14.87	14.32	14.56	—	737.75	684.02	654.42	682.86	—
Malleable iron foundries .....	3322	15.96	16.52	14.13	14.34	—	855.46	819.39	657.05	630.96	—
Steel foundries, nec .....	3325	12.94	13.01	13.58	13.76	—	588.77	585.45	596.16	601.31	—
Primary nonferrous metals .....	333	16.91	16.60	17.38	17.18	—	762.64	735.38	752.55	750.77	—
Primary aluminum .....	3334	17.01	16.45	17.44	17.18	—	768.85	732.03	767.36	762.79	—
Nonferrous rolling and drawing .....	335	14.72	14.74	14.41	14.45	—	680.06	676.57	638.36	643.03	—
Copper rolling and drawing .....	3351	15.09	14.91	15.43	15.46	—	677.54	676.91	686.64	695.70	—
Aluminum sheet, plate, and foil .....	3353	16.73	16.42	17.07	16.61	—	794.68	788.16	722.06	727.52	—
Nonferrous wire drawing and insulating .....	3357	14.83	15.09	13.99	14.16	—	692.56	682.07	626.75	635.78	—
Nonferrous foundries (castings) .....	336	12.28	12.26	12.38	12.55	—	548.92	533.31	550.91	566.01	—
Aluminum foundries .....	3365	11.81	11.74	11.95	12.12	—	522.00	497.78	536.56	545.40	—
Fabricated metal products .....	34	13.03	12.99	13.23	13.36	13.31	573.32	553.37	566.24	579.82	556.36
Metal cans and shipping containers .....	341	16.49	16.49	16.72	16.83	—	723.91	722.26	735.68	737.15	—
Metal cans .....	3411	17.48	17.55	17.82	17.94	—	781.36	775.71	785.86	782.18	—
Cutlery, handtools, and hardware .....	342	12.45	12.36	12.33	12.40	—	556.52	525.30	528.96	539.40	—
Hand and edge tools, and blades and handsaws .....	3423,5	12.22	12.16	12.47	12.47	—	548.68	528.96	549.93	552.42	—
Hardware, nec .....	3429	12.69	12.60	12.35	12.47	—	568.51	531.72	521.17	542.45	—
Plumbing and heating, except electric .....	343	12.04	11.86	11.89	12.12	—	515.31	494.56	514.84	526.01	—
Plumbing fixture fittings and trim .....	3432	11.67	11.67	11.54	11.73	—	505.31	487.81	477.76	498.53	—
Heating equipment, except electric .....	3433	11.87	11.63	12.33	12.37	—	509.22	475.67	536.36	529.44	—
Fabricated structural metal products .....	344	12.36	12.35	12.66	12.77	—	536.42	518.70	541.85	556.77	—
Fabricated structural metal .....	3441	12.56	12.53	12.99	13.05	—	558.92	538.79	580.65	601.61	—
Metal doors, sash, and trim .....	3442	10.58	10.51	10.72	10.86	—	442.24	427.76	447.02	457.21	—
Fabricated plate work (boiler shops) .....	3443	13.60	13.66	14.07	14.11	—	613.36	595.58	609.23	625.07	—
Sheet metal work .....	3444	12.62	12.61	12.86	12.96	—	535.09	515.75	536.26	545.62	—
Architectural metal work .....	3446	11.73	11.65	12.11	12.29	—	500.87	485.81	514.68	521.10	—
Screw machine products, bolts, etc .....	345	13.13	13.22	13.47	13.63	—	600.04	588.29	584.60	598.36	—
Screw machine products .....	3451	12.49	12.52	12.70	12.90	—	548.31	543.37	529.59	544.38	—
Bolts, nuts, rivets, and washers .....	3452	13.83	14.02	14.30	14.42	—	661.07	640.71	647.79	661.88	—
Metal forgings and stampings .....	346	15.38	15.20	15.49	15.64	—	695.18	659.68	678.46	695.98	—
Iron and steel forgings .....	3462	14.64	14.61	14.75	14.94	—	689.54	670.60	653.43	658.85	—
Automotive stampings .....	3465	17.74	17.36	17.87	17.88	—	814.27	760.37	798.79	818.90	—
Metal stampings, nec .....	3469	12.49	12.53	12.69	12.97	—	535.82	520.00	531.71	547.33	—
Metal services, nec .....	347	10.98	11.02	11.23	11.34	—	468.85	456.23	467.17	478.55	—
Plating and polishing .....	3471	10.84	10.93	11.14	11.27	—	455.28	444.85	461.20	473.34	—
Metal coating and allied services .....	3479	11.19	11.15	11.37	11.44	—	490.12	474.99	477.54	486.20	—
Ordnance and accessories, nec .....	348	15.33	15.54	15.64	15.62	—	628.53	626.26	634.98	652.92	—
Ammunition, except for small arms, nec .....	3483	15.87	16.16	16.69	16.62	—	671.30	672.26	699.31	722.97	—
Misc. fabricated metal products .....	349	12.43	12.38	12.67	12.83	—	548.16	533.58	532.14	547.84	—
Valves and pipe fittings, nec .....	3494	12.55	12.63	12.91	13.29	—	545.93	529.20	539.64	560.84	—
Misc. fabricated wire products .....	3496	10.98	10.87	11.31	11.39	—	458.96	448.93	456.92	470.41	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	44.8	43.6	42.7	43.2	42.0	6.5	5.6	4.9	5.2	-
Engines and turbines .....	351	46.5	45.6	44.7	45.6	-	7.6	6.4	6.9	7.1	-
Turbines and turbine generator sets .....	3511	45.0	42.6	44.6	44.8	-	7.2	4.3	5.7	6.0	-
Internal combustion engines, nec .....	3519	47.0	46.6	44.7	45.9	-	7.8	7.2	7.3	7.4	-
Farm and garden machinery .....	352	44.3	43.0	40.9	41.4	-	5.7	5.0	2.7	3.1	-
Farm machinery and equipment .....	3523	44.5	42.8	41.4	41.2	-	6.0	4.8	2.7	2.8	-
Construction and related machinery .....	353	45.9	44.8	43.2	43.6	-	6.8	6.2	5.2	5.1	-
Construction machinery .....	3531	44.9	44.6	42.8	42.9	-	5.9	5.9	4.4	4.6	-
Mining machinery .....	3532	43.2	42.8	41.1	41.6	-	5.1	4.5	3.6	3.4	-
Oil and gas field machinery .....	3533	50.3	49.3	45.0	44.2	-	10.3	9.9	7.0	5.3	-
Conveyors and conveying equipment .....	3535	45.1	42.1	42.8	44.2	-	6.2	4.9	5.5	6.2	-
Industrial trucks and tractors .....	3537	42.6	41.6	41.3	42.9	-	4.6	3.8	4.3	4.8	-
Metalworking machinery .....	354	45.4	44.4	43.5	44.2	-	7.2	6.6	5.7	6.1	-
Machine tools, metal cutting types .....	3541	45.8	45.2	42.7	44.0	-	7.0	6.6	5.1	5.6	-
Machine tools, metal forming types .....	3542	47.4	45.8	44.1	44.9	-	8.1	8.3	5.9	6.5	-
Special dies, tools, jigs, and fixtures .....	3544	45.4	44.5	44.1	45.0	-	7.7	7.1	6.4	7.0	-
Machine tool accessories .....	3545	45.0	43.5	42.3	43.5	-	5.9	5.3	4.1	4.3	-
Power driven handtools .....	3546	44.1	41.7	43.4	42.4	-	5.7	3.5	4.7	4.2	-
Special industry machinery .....	355	44.3	43.4	42.1	43.0	-	6.1	5.4	4.6	5.1	-
Textile machinery .....	3552	42.4	42.0	40.2	41.5	-	4.8	3.9	3.7	4.5	-
Printing trades machinery .....	3555	42.6	43.2	42.6	42.6	-	5.5	5.7	5.0	4.8	-
Food products machinery .....	3556	44.0	43.0	42.7	43.6	-	5.4	4.9	5.1	6.0	-
General industrial machinery .....	356	44.7	43.5	42.0	43.1	-	6.3	5.4	4.3	4.9	-
Pumps and pumping equipment .....	3561	43.0	40.9	41.6	42.1	-	5.7	4.4	4.3	4.8	-
Ball and roller bearings .....	3562	44.9	44.6	42.0	43.3	-	7.6	6.8	4.9	5.2	-
Air and gas compressors .....	3563	44.6	43.0	43.2	43.8	-	6.3	5.1	4.8	5.2	-
Blowers and fans .....	3564	45.4	43.4	43.1	43.7	-	5.6	4.0	3.7	4.6	-
Speed changers, drives, and gears .....	3566	46.7	45.9	41.3	43.2	-	7.8	7.2	4.5	5.6	-
Power transmission equipment, nec .....	3568	43.8	43.8	41.2	42.6	-	6.0	5.4	3.4	4.4	-
Computer and office equipment .....	357	42.8	41.9	42.4	41.7	-	5.3	4.0	4.5	5.2	-
Electronic computers .....	3571	43.0	42.0	42.1	40.2	-	5.7	4.3	4.8	6.0	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	44.5	43.1	43.0	43.8	-	6.2	5.1	4.9	4.8	-
Refrigeration and service machinery .....	358	45.8	43.1	42.4	42.4	-	5.9	4.3	4.2	4.4	-
Refrigeration and heating equipment .....	3585	46.4	43.8	42.6	42.3	-	6.3	4.5	4.4	4.7	-
Misc. industrial and commercial machinery .....	359	44.4	43.5	42.6	43.2	-	6.7	6.1	5.0	5.3	-
Carburetors, pistons rings, valves .....	3592	43.0	41.6	41.1	42.2	-	5.8	5.7	5.1	6.0	-
Scales, balances, and industrial machinery, nec ..	3596,9	44.2	43.5	42.7	43.2	-	6.7	6.1	5.1	5.3	-
Electronic and other electrical equipment .....	36	43.1	41.8	42.1	42.2	40.9	5.0	4.1	4.1	4.2	-
Electric distribution equipment .....	361	42.7	40.9	41.2	41.9	-	5.3	4.4	4.0	4.6	-
Transformers, except electronic .....	3612	43.9	42.4	42.4	43.2	-	4.7	4.1	3.9	3.9	-
Switchgear and switchboard apparatus .....	3613	41.6	39.5	40.2	40.7	-	5.8	4.6	4.2	5.1	-
Electrical industrial apparatus .....	362	44.1	42.1	42.0	42.1	-	4.8	4.1	3.5	3.7	-
Motors and generators .....	3621	44.6	42.1	42.0	41.9	-	4.8	4.1	3.4	3.7	-
Relays and industrial controls .....	3625	42.5	41.2	41.7	42.3	-	4.6	3.9	3.6	3.6	-
Household appliances .....	363	42.8	41.5	40.7	40.9	-	4.2	3.0	2.4	2.7	-
Household refrigerators and freezers .....	3632	43.7	40.7	42.8	42.4	-	3.1	2.1	2.6	2.4	-
Household laundry equipment .....	3633	42.7	44.3	39.9	41.4	-	3.4	4.0	2.3	3.7	-
Electric housewares and fans .....	3634	42.0	39.8	40.7	39.9	-	3.4	2.0	2.0	1.2	-
Electric lighting and wiring equipment .....	364	43.0	42.0	42.1	42.4	-	5.1	4.1	4.5	4.7	-
Electric lamps .....	3641	42.4	43.7	41.3	41.3	-	4.8	4.6	4.6	4.5	-
Current-carrying wiring devices .....	3643	42.1	42.6	41.3	41.2	-	4.6	4.8	4.5	4.6	-
Noncurrent-carrying wiring devices .....	3644	44.4	43.9	43.0	43.3	-	4.1	4.0	4.2	4.9	-
Residential lighting fixtures .....	3645	40.6	38.3	40.1	41.3	-	4.0	2.8	3.3	3.5	-
Household audio and video equipment .....	365	41.8	40.1	42.2	40.3	-	5.0	4.3	5.8	4.1	-
Household audio and video equipment .....	3651	41.3	39.4	40.6	40.3	-	4.1	3.0	3.9	2.8	-
Communications equipment .....	366	44.0	41.8	43.0	43.5	-	4.7	3.3	3.6	3.8	-
Telephone and telegraph apparatus .....	3661	45.2	43.9	45.1	45.3	-	4.7	3.4	4.1	4.3	-
Electronic components and accessories .....	367	42.9	42.0	42.3	42.4	-	5.0	4.3	4.3	4.5	-
Electron tubes .....	3671	41.7	41.5	43.0	42.3	-	4.4	3.6	3.0	3.2	-
Semiconductors and related devices .....	3674	42.8	43.1	43.4	43.9	-	5.0	5.1	5.1	5.3	-
Electronic components, nec .....	3679	42.7	41.6	42.2	42.4	-	4.8	4.1	3.9	4.2	-
Misc. electrical equipment and supplies .....	369	43.6	42.5	42.4	42.2	-	5.8	4.4	5.0	4.9	-
Storage batteries .....	3691	43.3	41.7	44.4	44.3	-	5.2	4.1	5.3	5.3	-
Engine electrical equipment .....	3694	44.5	43.0	42.2	42.7	-	7.0	5.2	5.6	5.6	-

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$14.41	\$14.34	\$14.62	\$14.68	\$14.64	\$645.57	\$625.22	\$624.27	\$634.18	\$614.88
Engines and turbines .....	351	17.14	16.90	17.65	17.97	-	797.01	770.64	788.96	819.43	-
Turbines and turbine generator sets .....	3511	20.17	19.71	19.87	19.99	-	907.65	839.65	886.20	895.55	-
Internal combustion engines, nec .....	3519	16.10	15.99	16.96	17.35	-	756.70	745.13	758.11	796.37	-
Farm and garden machinery .....	352	13.94	13.81	13.56	13.27	-	617.54	593.83	554.60	549.38	-
Farm machinery and equipment .....	3523	14.76	14.54	14.25	14.07	-	656.82	622.31	589.95	579.68	-
Construction and related machinery .....	353	13.57	13.61	13.81	13.87	-	622.86	609.73	596.59	604.73	-
Construction machinery .....	3531	13.89	14.05	13.98	14.03	-	623.66	626.63	598.34	601.89	-
Mining machinery .....	3532	14.63	14.39	14.69	14.79	-	632.02	615.89	603.76	615.26	-
Oil and gas field machinery .....	3533	13.30	13.36	13.68	13.79	-	668.99	658.65	615.60	609.52	-
Conveyors and conveying equipment .....	3535	13.81	13.81	14.31	14.41	-	622.83	581.40	612.47	636.92	-
Industrial trucks and tractors .....	3537	12.67	12.52	12.90	12.86	-	539.74	520.83	532.77	551.69	-
Metalworking machinery .....	354	15.24	15.20	15.54	15.64	-	691.90	674.88	675.99	691.29	-
Machine tools, metal cutting types .....	3541	14.75	14.83	15.10	15.25	-	675.55	670.32	644.77	671.00	-
Machine tools, metal forming types .....	3542	15.60	15.74	16.18	16.27	-	739.44	720.89	713.54	730.52	-
Special dies, tools, jigs, and fixtures .....	3544	16.00	16.00	16.24	16.40	-	726.40	712.00	716.18	738.00	-
Machine tool accessories .....	3545	13.37	13.25	13.59	13.60	-	601.65	576.38	574.86	591.60	-
Power driven handtools .....	3546	12.53	12.27	12.70	12.80	-	552.57	511.66	551.18	542.72	-
Special industry machinery .....	355	15.15	15.03	15.20	15.31	-	671.15	652.30	639.92	658.33	-
Textile machinery .....	3552	13.27	13.03	13.26	13.40	-	562.65	547.26	533.05	556.10	-
Printing trades machinery .....	3555	16.38	16.18	16.34	16.10	-	697.79	698.98	696.08	685.86	-
Food products machinery .....	3556	14.66	14.56	15.13	15.46	-	645.04	626.08	646.05	674.06	-
General industrial machinery .....	356	14.13	14.03	14.12	14.23	-	631.61	610.31	593.04	613.31	-
Pumps and pumping equipment .....	3561	14.94	14.75	15.05	15.31	-	642.42	603.28	626.08	644.55	-
Ball and roller bearings .....	3562	15.38	15.37	15.03	14.83	-	690.56	685.50	631.26	642.14	-
Air and gas compressors .....	3563	15.33	14.82	14.80	14.77	-	683.72	637.26	639.36	646.93	-
Blowers and fans .....	3564	11.80	11.73	11.61	11.88	-	535.72	509.08	500.39	519.16	-
Speed changers, drives, and gears .....	3566	15.06	14.94	15.09	15.45	-	703.30	685.75	623.22	667.44	-
Power transmission equipment, nec .....	3568	13.54	13.42	13.62	13.87	-	593.05	587.80	561.14	590.86	-
Computer and office equipment .....	357	14.73	14.77	15.99	15.73	-	630.44	618.86	677.98	655.94	-
Electronic computers .....	3571	15.99	16.02	17.79	17.49	-	687.57	672.84	748.96	703.10	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	13.58	13.63	14.33	14.11	-	604.31	587.45	616.19	618.02	-
Refrigeration and service machinery .....	358	13.34	13.08	12.97	13.06	-	610.97	563.75	549.93	553.74	-
Refrigeration and heating equipment .....	3585	13.80	13.43	13.23	13.28	-	640.32	588.23	563.60	561.74	-
Misc. industrial and commercial machinery .....	359	14.07	14.02	14.12	14.28	-	624.71	609.87	601.51	616.90	-
Carburetors, pistons, rings, valves .....	3592	14.61	14.53	14.63	14.83	-	628.23	604.45	601.29	625.83	-
Scales, balances, and industrial machinery, nec .....	3596,9	13.88	13.87	13.98	14.12	-	613.50	603.35	596.95	609.98	-
Electronic and other electrical equipment .....	36	13.13	13.00	13.19	13.28	13.33	565.90	543.40	555.30	560.42	545.20
Electric distribution equipment .....	361	13.05	12.85	13.26	13.43	-	557.24	525.57	546.31	562.72	-
Transformers, except electronic .....	3612	12.02	11.93	12.06	12.42	-	527.68	505.83	511.34	536.54	-
Switchgear and switchboard apparatus .....	3613	14.08	13.77	14.33	14.35	-	585.73	543.92	576.07	584.05	-
Electrical industrial apparatus .....	362	12.55	12.48	12.63	12.73	-	553.46	525.41	530.46	535.93	-
Motors and generators .....	3621	11.67	11.52	11.66	11.77	-	520.48	484.99	489.72	493.16	-
Relays and industrial controls .....	3625	14.34	14.33	14.45	14.47	-	609.45	590.40	602.57	612.08	-
Household appliances .....	363	12.39	12.27	12.57	12.60	-	530.29	509.21	511.60	515.34	-
Household refrigerators and freezers .....	3632	13.24	13.17	14.11	14.21	-	578.59	536.02	603.91	602.50	-
Household laundry equipment .....	3633	14.42	14.30	13.46	13.74	-	615.73	633.49	537.05	568.84	-
Electric housewares and fans .....	3634	10.56	10.64	11.03	11.06	-	443.52	423.47	448.92	441.29	-
Electric lighting and wiring equipment .....	364	12.84	12.78	12.64	12.78	-	552.12	536.76	532.14	541.87	-
Electric lamps .....	3641	16.26	16.25	17.23	17.38	-	689.42	710.13	711.60	717.79	-
Current-carrying wiring devices .....	3643	12.98	13.06	13.35	13.53	-	546.46	556.36	551.36	557.44	-
Noncurrent-carrying wiring devices .....	3644	11.50	11.48	11.94	12.00	-	510.60	503.97	513.42	519.60	-
Residential lighting fixtures .....	3645	9.00	8.97	9.29	9.53	-	365.40	343.55	372.53	393.59	-
Household audio and video equipment .....	365	11.47	11.57	12.09	11.84	-	479.45	463.96	510.20	477.15	-
Household audio and video equipment .....	3651	11.08	11.19	11.64	11.50	-	457.60	440.89	472.58	463.45	-
Communications equipment .....	366	13.88	13.81	14.18	14.24	-	610.72	577.26	609.74	619.44	-
Telephone and telegraph apparatus .....	3661	14.71	14.53	15.05	15.02	-	664.89	637.87	678.76	680.41	-
Electronic components and accessories .....	367	13.24	13.04	13.41	13.58	-	568.00	547.68	567.24	575.79	-
Electron tubes .....	3671	15.45	14.89	14.88	14.78	-	644.27	617.94	639.84	625.19	-
Semiconductors and related devices .....	3674	17.92	17.25	17.94	18.20	-	766.98	743.48	778.60	798.98	-
Electronic components, nec .....	3679	10.73	10.62	10.91	11.13	-	458.17	441.79	460.40	471.91	-
Misc. electrical equipment and supplies .....	369	14.09	13.93	13.45	13.29	-	614.32	592.03	570.28	560.84	-
Storage batteries .....	3691	15.21	14.95	15.33	15.05	-	658.59	623.42	680.65	666.72	-
Engine electrical equipment .....	3694	14.45	14.37	13.07	12.69	-	643.03	617.91	551.55	541.86	-

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	45.6	43.8	44.6	45.8	43.7	7.3	6.0	5.9	6.1	—
Motor vehicles and equipment .....	371	46.3	43.7	45.2	47.0	44.7	7.9	6.0	6.3	6.5	—
Motor vehicles and car bodies .....	3711	46.4	42.0	44.1	48.1	—	8.1	5.3	5.4	7.2	—
Truck and bus bodies .....	3713	43.4	44.0	44.0	45.6	—	6.4	6.5	6.1	5.9	—
Motor vehicle parts and accessories .....	3714	46.9	44.9	46.4	47.1	—	8.4	6.6	7.2	6.4	—
Truck trailers .....	3715	42.6	42.7	42.0	42.5	—	4.6	5.0	3.7	3.9	—
Aircraft and parts .....	372	46.4	45.0	44.6	44.9	—	7.6	6.9	6.1	6.2	—
Aircraft .....	3721	45.7	45.1	44.4	44.2	—	7.4	6.9	5.7	5.5	—
Aircraft engines and engine parts .....	3724	47.4	44.6	44.6	46.1	—	8.1	6.1	6.5	7.0	—
Aircraft parts and equipment, nec .....	3728	46.6	45.0	44.7	45.2	—	7.7	7.2	6.3	6.6	—
Ship and boat building and repairing .....	373	42.5	43.2	42.8	43.5	—	5.0	5.8	5.0	5.5	—
Ship building and repairing .....	3731	44.3	45.1	44.1	44.8	—	6.3	7.3	6.0	6.7	—
Boat building and repairing .....	3732	39.9	40.5	40.9	41.6	—	3.1	3.5	3.6	3.9	—
Railroad equipment .....	374	45.4	44.7	43.5	42.2	—	5.1	5.1	4.5	4.5	—
Guided missiles, space vehicles, and parts .....	376	43.8	43.3	42.5	41.9	—	5.0	4.4	3.9	3.8	—
Guided missiles and space vehicles .....	3761	43.9	43.3	42.2	41.4	—	4.8	4.0	3.4	3.5	—
Misc. transportation equipment .....	379	41.2	40.4	40.9	41.1	—	3.9	3.3	3.3	3.5	—
Travel trailers and campers .....	3792	39.4	38.0	40.0	39.1	—	2.5	2.0	2.2	2.1	—
Instruments and related products .....	38	42.9	41.9	41.5	42.0	41.0	4.4	3.7	3.3	3.5	—
Search and navigation equipment .....	381	43.9	43.1	42.2	42.5	—	4.5	4.0	3.7	3.6	—
Measuring and controlling devices .....	382	43.0	41.9	41.2	42.2	—	4.3	3.5	3.1	3.7	—
Environmental controls .....	3822	42.5	42.4	40.9	43.1	—	4.5	4.4	3.9	4.7	—
Process control instruments .....	3823	43.9	41.8	40.5	41.5	—	4.3	3.4	2.7	3.2	—
Instruments to measure electricity .....	3825	42.0	40.9	41.1	42.2	—	3.4	2.5	2.2	2.9	—
Medical instruments and supplies .....	384	42.9	41.6	41.4	41.9	—	4.4	3.8	3.4	3.7	—
Surgical and medical instrument .....	3841	42.4	42.2	41.0	41.1	—	3.9	4.2	3.3	3.4	—
Surgical appliances and supplies .....	3842	42.8	40.7	41.5	42.6	—	4.7	3.5	3.9	4.3	—
Ophthalmic goods .....	385	41.0	41.0	40.7	40.0	—	2.4	2.4	2.4	1.6	—
Photographic equipment and supplies .....	386	43.1	42.0	42.3	42.1	—	6.3	4.5	3.9	3.6	—
Watches, clocks, watchcases, and parts .....	387	40.5	41.4	42.7	42.3	—	2.1	3.1	2.4	2.8	—
Miscellaneous manufacturing industries .....	39	41.4	39.9	40.0	40.2	38.6	3.6	2.8	3.2	3.1	—
Jewelry, silverware, and plated ware .....	391	41.2	38.2	39.9	38.9	—	3.6	1.7	3.7	3.0	—
Jewelry, precious metal .....	3911	41.0	37.4	39.0	37.8	—	3.6	1.5	3.3	2.8	—
Musical instruments .....	393	41.3	40.5	40.6	41.1	—	3.1	2.4	2.7	3.0	—
Toys and sporting goods .....	394	41.0	39.8	40.1	40.0	—	2.9	2.3	2.6	2.6	—
Dolls, games, toys, and children's vehicles .....	3942,4	40.3	38.1	40.5	39.2	—	2.6	1.6	3.0	2.6	—
Sporting and athletic goods, nec .....	3949	41.4	40.6	40.0	40.3	—	3.1	2.6	2.4	2.5	—
Pens, pencils, office, and art supplies .....	395	40.7	39.2	38.2	38.6	—	3.1	2.9	2.7	2.7	—
Costume jewelry and notions .....	396	40.2	39.3	39.2	38.9	—	2.7	2.0	4.0	2.3	—
Costume jewelry .....	3961	39.9	38.5	39.6	38.3	—	2.0	0.7	5.4	2.0	—
Miscellaneous manufactures .....	399	41.9	40.7	40.4	41.0	—	4.4	3.7	3.4	3.7	—
Signs and advertising specialties .....	3993	42.7	41.6	40.6	41.5	—	4.6	4.0	4.0	4.4	—
<b>Nondurable goods .....</b>		<b>41.8</b>	<b>40.9</b>	<b>41.3</b>	<b>41.6</b>	<b>40.5</b>	<b>4.7</b>	<b>4.2</b>	<b>4.6</b>	<b>4.6</b>	<b>4.2</b>
Food and kindred products .....	20	42.4	41.4	42.4	42.8	41.5	5.3	4.8	5.7	5.6	—
Meat products .....	201	41.5	41.0	42.6	43.1	—	4.9	4.6	5.7	5.8	—
Meat packing plants .....	2011	44.2	43.4	45.2	46.5	—	6.2	6.0	7.4	7.7	—
Sausages and other prepared meats .....	2013	42.9	41.6	42.8	43.9	—	6.5	5.6	6.5	6.9	—
Poultry slaughtering and processing .....	2015	39.5	39.3	41.0	40.8	—	3.7	3.5	4.5	4.3	—
Dairy products .....	202	41.9	41.4	42.1	42.5	—	5.0	4.6	5.4	5.4	—
Cheese, natural and processed .....	2022	41.8	40.2	42.5	43.3	—	4.9	3.7	5.2	5.4	—
Fluid milk .....	2026	42.3	41.9	42.5	41.8	—	5.1	4.9	5.5	5.1	—
Preserved fruits and vegetables .....	203	42.5	41.7	41.6	42.9	—	5.4	5.1	5.6	5.8	—
Canned specialties .....	2032	46.4	46.8	43.5	43.2	—	9.9	10.7	7.2	7.0	—
Canned fruits and vegetables .....	2033	42.9	40.4	40.1	41.9	—	4.8	4.2	4.6	4.3	—
Frozen fruits and vegetables .....	2037	41.3	40.9	40.8	42.4	—	4.9	4.3	5.5	5.9	—
Grain mill products .....	204	46.9	45.7	46.6	45.8	—	7.6	7.1	8.5	7.9	—
Flour and other grain mill products .....	2041	48.9	45.7	48.0	46.3	—	8.5	6.3	8.9	7.3	—
Prepared feeds, nec .....	2048	43.9	44.3	44.0	43.0	—	6.3	6.5	7.2	6.5	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$18.09	\$17.75	\$17.55	\$17.57	\$17.45	\$824.90	\$777.45	\$782.73	\$804.71	\$762.57
Motor vehicles and equipment .....	371	18.66	18.24	17.75	17.74	17.59	863.96	797.09	802.30	833.78	786.27
Motor vehicles and car bodies .....	3711	22.58	22.32	21.00	20.99	—	1,047.71	937.44	926.10	1,009.62	—
Truck and bus bodies .....	3713	15.87	16.09	15.60	15.17	—	688.76	707.96	686.40	691.75	—
Motor vehicle parts and accessories .....	3714	17.08	16.79	16.66	16.53	—	801.05	753.87	773.02	778.56	—
Truck trailers .....	3715	11.43	11.36	11.42	11.53	—	486.92	485.07	479.64	490.03	—
Aircraft and parts .....	372	19.25	18.98	19.42	19.50	—	893.20	854.10	866.13	875.55	—
Aircraft .....	3721	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Aircraft engines and engine parts .....	3724	19.31	18.78	19.29	19.32	—	915.29	837.59	860.33	890.65	—
Aircraft parts and equipment .....	3728	16.90	16.77	16.95	17.20	—	787.54	754.65	757.67	777.44	—
Ship and boat building and repairing .....	373	13.20	13.54	13.57	13.62	—	561.00	584.93	580.80	592.47	—
Ship building and repairing .....	3731	14.42	14.98	14.87	14.88	—	638.81	675.60	655.77	666.62	—
Boat building and repairing .....	3732	11.17	11.15	11.63	11.76	—	445.68	451.58	475.67	489.22	—
Railroad equipment .....	374	17.11	17.07	16.52	16.58	—	776.79	763.03	718.62	699.68	—
Guided missiles, space vehicles, and parts .....	376	19.88	19.83	20.23	20.19	—	870.74	858.64	859.78	845.96	—
Guided missiles and space vehicles .....	3761	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Misc. transportation equipment .....	379	11.80	11.72	12.29	12.23	—	486.16	473.49	502.66	502.65	—
Travel trailers and campers .....	3792	11.91	11.81	12.47	12.26	—	469.25	448.78	498.80	479.37	—
Instruments and related products .....	38	13.68	13.64	13.87	13.98	13.96	586.87	571.52	575.61	587.16	572.36
Search and navigation equipment .....	381	17.27	17.31	17.54	17.83	—	758.15	746.06	740.19	757.78	—
Measuring and controlling devices .....	382	13.76	13.62	14.17	14.25	—	591.68	570.68	583.80	601.35	—
Environmental controls .....	3822	11.88	11.78	12.19	12.28	—	504.90	499.47	498.57	529.27	—
Process control instruments .....	3823	13.65	13.40	14.27	14.23	—	599.24	560.12	577.94	590.55	—
Instruments to measure electricity .....	3825	15.80	15.61	16.65	16.52	—	663.60	638.45	684.32	697.14	—
Medical instruments and supplies .....	384	12.72	12.77	12.73	12.84	—	545.69	531.23	527.02	538.00	—
Surgical and medical instrument .....	3841	12.04	12.18	11.84	12.01	—	510.50	514.00	485.44	493.61	—
Surgical appliances and supplies .....	3842	11.90	11.86	12.06	12.14	—	509.32	482.70	500.49	517.16	—
Ophthalmic goods .....	385	10.35	10.28	10.23	10.36	—	424.35	421.48	419.36	414.40	—
Photographic equipment and supplies .....	386	15.83	15.75	16.54	16.53	—	682.27	661.50	699.64	695.91	—
Watches, clocks, watchcases, and parts .....	387	10.03	10.29	10.28	10.59	—	406.22	426.01	438.96	447.96	—
Miscellaneous manufacturing industries .....	39	10.80	10.79	11.01	11.13	11.12	447.12	430.52	440.40	447.43	429.23
Jewelry, silverware, and plated ware .....	391	11.28	11.18	11.47	11.58	—	464.74	427.08	457.65	450.46	—
Jewelry, precious metal .....	3911	11.48	11.34	11.42	11.52	—	470.68	424.12	445.38	435.46	—
Musical instruments .....	393	10.88	10.77	11.38	11.41	—	449.34	436.19	462.03	468.95	—
Toys and sporting goods .....	394	10.24	10.27	10.57	10.65	—	419.84	408.75	423.86	426.00	—
Dolls, games, toys, and children's vehicles .....	3942,4	9.77	9.78	10.41	10.47	—	393.73	372.62	421.61	410.42	—
Sporting and athletic goods, nec .....	3949	10.46	10.47	10.65	10.73	—	433.04	425.08	426.00	432.42	—
Pens, pencils, office, and art supplies .....	395	11.09	11.16	11.20	11.17	—	451.36	437.47	427.84	431.16	—
Costume jewelry and notions .....	396	9.69	9.80	9.74	9.87	—	389.54	385.14	381.81	383.94	—
Costume jewelry .....	3961	8.78	8.82	8.87	8.95	—	350.32	339.57	351.25	342.79	—
Miscellaneous manufactures .....	399	11.11	11.09	11.23	11.39	—	465.51	451.36	453.69	466.99	—
Signs and advertising specialties .....	3993	11.71	11.70	12.25	12.27	—	500.02	486.72	497.35	509.21	—
<b>Nondurable goods</b> .....		12.58	12.56	12.89	12.97	12.99	525.84	513.70	532.36	539.55	526.10
Food and kindred products .....	20	11.71	11.67	11.96	12.01	11.98	496.50	483.14	507.10	514.03	497.17
Meat products .....	201	9.49	9.51	9.82	9.90	—	393.84	389.91	418.33	426.69	—
Meat packing plants .....	2011	10.18	10.23	10.65	10.67	—	449.96	443.98	481.38	496.16	—
Sausages and other prepared meats .....	2013	10.86	10.87	11.05	11.14	—	465.89	452.19	472.94	489.05	—
Poultry slaughtering and processing .....	2015	8.52	8.55	8.82	8.92	—	336.54	336.02	361.62	363.94	—
Dairy products .....	202	13.35	13.27	13.83	13.77	—	559.37	549.38	582.24	585.23	—
Cheese, natural and processed .....	2022	12.10	11.95	12.59	12.58	—	505.78	480.39	535.08	544.71	—
Fluid milk .....	2026	14.03	14.06	14.48	14.40	—	593.47	589.11	615.40	601.92	—
Preserved fruits and vegetables .....	203	11.44	11.29	11.48	11.75	—	486.20	470.79	477.57	504.08	—
Canned specialties .....	2032	15.38	14.66	15.18	15.61	—	713.63	686.09	660.33	674.35	—
Canned fruits and vegetables .....	2033	12.30	12.33	12.44	13.01	—	527.67	498.13	498.84	545.12	—
Frozen fruits and vegetables .....	2037	10.49	10.45	10.51	10.69	—	433.24	427.41	428.81	453.26	—
Grain mill products .....	204	14.94	14.75	15.11	15.07	—	700.69	674.08	704.13	690.21	—
Flour and other grain mill products .....	2041	13.10	12.61	13.40	13.11	—	640.59	576.28	643.20	606.99	—
Prepared feeds, nec .....	2048	11.56	11.68	11.85	11.88	—	507.48	517.42	521.40	510.84	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	41.6	39.9	41.1	41.0	—	5.0	4.2	5.0	4.4	—
Bread, cake, and related products .....	2051	40.7	39.5	41.4	41.0	—	4.8	4.1	5.3	4.7	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	43.3	40.6	40.5	41.0	—	5.5	4.2	4.6	4.0	—
Sugar and confectionery products .....	206	43.1	42.5	42.2	43.4	—	5.5	4.7	5.5	5.5	—
Raw cane sugar .....	2061	62.2	59.5	50.4	60.8	—	18.5	14.9	11.5	17.2	—
Cane sugar refining .....	2062	50.3	48.2	54.3	52.1	—	10.6	9.0	13.2	9.2	—
Beet sugar .....	2063	43.0	43.5	39.7	40.0	—	4.0	4.2	4.6	4.3	—
Candy and other confectionery products .....	2064	41.6	40.9	41.1	42.1	—	4.3	3.8	4.6	4.4	—
Fats and oils .....	207	44.1	43.0	44.7	43.6	—	7.2	6.3	7.3	6.5	—
Beverages .....	208	43.9	42.1	44.5	45.0	—	4.5	4.6	5.8	5.1	—
Malt beverages .....	2082	47.9	46.4	49.7	49.7	—	6.7	7.4	9.9	7.0	—
Bottled and canned soft drinks .....	2086	42.5	41.4	43.1	44.3	—	3.9	4.1	4.8	5.4	—
Misc. food and kindred products .....	209	41.2	39.2	39.6	40.0	—	5.0	4.6	4.3	4.6	—
Tobacco products .....	21	40.1	37.8	38.8	37.4	34.7	4.0	2.6	2.8	3.5	—
Cigarettes .....	211	40.3	37.5	37.8	35.5	—	3.9	3.1	3.3	4.3	—
Textile mill products .....	22	42.2	41.6	41.2	41.5	40.7	5.1	4.7	4.5	4.7	—
Broadwoven fabric mills, cotton .....	221	42.6	42.8	40.9	42.5	—	5.8	5.8	5.6	5.7	—
Broadwoven fabric mills, synthetics .....	222	42.4	41.9	41.9	41.6	—	5.7	5.0	4.9	4.8	—
Broadwoven fabric mills, wool .....	223	41.2	38.9	37.7	36.9	—	5.1	3.9	3.0	2.6	—
Narrow fabric mills .....	224	40.0	40.5	40.6	39.2	—	3.2	3.0	3.1	3.2	—
Knitting mills .....	225	40.2	40.0	40.1	39.8	—	3.9	3.4	3.6	3.7	—
Women's hosiery, except socks .....	2251	37.7	38.0	40.9	42.0	—	2.5	1.3	3.9	4.2	—
Hosiery, nec .....	2252	37.5	38.3	39.4	39.0	—	3.2	3.1	3.3	3.1	—
Knit outerwear mills .....	2253	41.1	40.1	40.2	39.3	—	3.7	3.3	3.3	3.1	—
Knit underwear mills .....	2254	39.5	40.3	40.0	35.9	—	2.4	2.2	2.4	2.0	—
Weft knit fabric mills .....	2257	39.5	39.7	38.5	39.3	—	4.9	4.5	3.9	4.2	—
Textile finishing, except wool .....	226	44.2	42.4	41.7	42.7	—	6.3	5.3	5.0	5.4	—
Finishing plants, cotton .....	2261	44.4	42.3	43.3	44.1	—	6.3	5.2	6.1	6.3	—
Finishing plants, synthetics .....	2262	44.0	43.2	41.3	42.6	—	6.4	5.6	4.2	4.9	—
Carpets and rugs .....	227	44.5	42.8	43.3	44.5	—	6.0	5.9	5.8	6.7	—
Yarn and thread mills .....	228	42.4	41.9	40.9	40.9	—	5.2	4.8	4.2	4.1	—
Yarn spinning mills .....	2281	43.4	42.4	41.7	41.7	—	5.6	5.1	4.5	4.4	—
Throwing and winding mills .....	2282	38.6	39.2	37.7	37.6	—	4.0	3.7	2.9	2.8	—
Miscellaneous textile goods .....	229	43.0	43.1	41.7	42.6	—	5.2	5.0	4.6	4.9	—
Apparel and other textile products .....	23	38.1	37.3	37.6	37.9	36.5	2.5	2.1	2.2	2.3	—
Men's and boys' suits and coats .....	231	38.6	37.1	37.1	37.7	—	1.6	1.2	0.8	0.9	—
Men's and boys' furnishings .....	232	37.1	36.6	36.5	36.4	—	1.5	1.4	1.4	1.3	—
Men's and boys' shirts .....	2321	36.5	36.1	35.0	35.3	—	1.7	1.5	0.9	1.1	—
Men's and boys' trousers and slacks .....	2325	36.7	36.5	35.5	35.3	—	1.3	1.3	1.4	1.0	—
Men's and boys' work clothing .....	2326	38.3	37.8	38.0	37.7	—	1.9	1.5	1.7	1.8	—
Women's and misses' outerwear .....	233	36.7	36.2	36.6	36.8	—	2.0	1.7	1.4	1.5	—
Women's and misses' blouses and shirts .....	2331	35.1	34.5	34.7	35.3	—	1.4	1.3	1.5	2.4	—
Women's, juniors', and misses' dresses .....	2335	37.5	38.2	36.3	36.6	—	2.0	2.2	1.4	1.6	—
Women's and misses' suits and coats .....	2337	37.3	35.2	37.2	38.1	—	2.2	1.0	1.9	1.6	—
Women's and misses' outerwear, nec .....	2339	36.6	36.1	36.9	36.8	—	2.0	1.7	1.4	1.4	—
Women's and children's undergarments .....	234	38.2	37.3	37.6	37.4	—	2.5	1.7	2.3	2.4	—
Women's and children's underwear .....	2341	38.2	36.9	37.8	37.5	—	2.3	1.5	2.0	2.3	—
Brassieres, girdles, and allied garments .....	2342	38.1	38.8	36.9	37.1	—	3.3	2.3	3.2	2.5	—
Girls' and children's outerwear .....	236	37.3	37.5	37.6	37.7	—	3.0	3.2	3.4	3.0	—
Girls' and children's dresses and blouses .....	2361	36.9	37.4	38.7	38.8	—	3.0	3.9	4.9	4.7	—
Misc. apparel and accessories .....	238	37.6	37.2	37.6	37.1	—	1.8	1.3	1.6	1.4	—
Misc. fabricated textile products .....	239	40.7	39.0	39.7	40.6	—	4.4	3.2	3.7	4.2	—
Curtains and draperies .....	2391	37.5	35.3	35.8	37.6	—	1.9	0.9	1.9	2.3	—
House furnishings, nec .....	2392	42.0	40.3	40.9	41.4	—	5.2	4.0	4.6	4.8	—
Automotive and apparel trimmings .....	2396	40.8	39.2	40.2	41.3	—	5.1	3.2	3.4	4.3	—
Paper and allied products .....	26	44.6	43.7	43.9	44.2	43.7	6.1	5.4	5.8	5.7	—
Paper mills .....	262	45.9	45.6	45.0	45.2	—	6.6	6.3	6.8	6.6	—
Paperboard mills .....	263	45.6	44.9	44.6	46.1	—	6.9	6.7	7.4	7.8	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	\$12.50	\$12.49	\$12.79	\$12.77	—	\$520.00	\$498.35	\$525.67	\$523.57	—
Bread, cake, and related products .....	2051	12.71	12.68	12.79	12.80	—	517.30	500.86	529.51	524.80	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	12.14	12.14	12.81	12.72	—	525.66	492.88	518.81	521.52	—
Sugar and confectionery products .....	206	12.61	12.78	13.02	13.18	—	543.49	543.15	549.44	572.01	—
Raw cane sugar .....	2061	11.52	12.43	10.41	10.70	—	716.54	739.59	524.66	650.56	—
Cane sugar refining .....	2062	17.85	18.03	18.28	17.87	—	897.86	869.05	992.60	931.03	—
Beet sugar .....	2063	13.07	13.07	13.56	13.70	—	562.01	568.55	538.33	548.00	—
Candy and other confectionery products .....	2064	11.87	11.90	12.47	12.64	—	493.79	486.71	512.52	532.14	—
Fats and oils .....	207	12.80	12.66	12.96	13.12	—	564.48	544.38	579.31	572.03	—
Beverages .....	208	16.24	16.20	16.50	16.38	—	712.94	682.02	734.25	737.10	—
Malt beverages .....	2082	22.20	22.41	24.35	23.70	—	1,063.38	1,039.82	1,210.19	1,177.89	—
Bottled and canned soft drinks .....	2086	13.61	13.26	13.26	13.38	—	578.43	548.96	571.51	592.73	—
Misc. food and kindred products .....	209	10.63	10.60	10.90	10.92	—	437.96	415.52	431.64	436.80	—
Tobacco products .....	21	18.69	18.49	17.45	17.13	\$16.44	749.47	698.92	677.06	640.66	\$570.47
Cigarettes .....	211	24.97	24.78	24.24	24.05	—	1,006.29	929.25	916.27	853.78	—
Textile mill products .....	22	10.25	10.26	10.51	10.55	10.63	432.55	426.82	433.01	437.83	432.64
Broadwoven fabric mills, cotton .....	221	10.65	10.73	11.13	10.98	—	453.69	459.24	455.22	466.65	—
Broadwoven fabric mills, synthetics .....	222	11.11	11.13	11.23	11.31	—	471.06	466.35	470.54	470.50	—
Broadwoven fabric mills, wool .....	223	10.58	10.52	10.93	10.73	—	435.90	409.23	412.06	395.94	—
Narrow fabric mills .....	224	9.31	9.39	9.55	9.61	—	372.40	380.30	387.73	376.71	—
Knitting mills .....	225	9.34	9.33	9.56	9.65	—	375.47	373.20	383.36	384.07	—
Women's hosiery, except socks .....	2251	8.59	8.54	9.02	8.88	—	323.84	324.52	368.92	372.96	—
Hosiery, nec .....	2252	9.25	9.42	9.44	9.47	—	346.88	360.79	371.94	369.33	—
Knit outerwear mills .....	2253	8.76	8.73	8.93	9.01	—	360.04	350.07	358.99	354.09	—
Knit underwear mills .....	2254	9.53	9.08	9.71	9.82	—	376.44	365.92	388.40	352.54	—
Weft knit fabric mills .....	2257	10.21	10.18	10.32	10.38	—	403.30	404.15	397.32	407.93	—
Textile finishing, except wool .....	226	10.53	10.52	10.80	10.82	—	465.43	446.05	450.36	462.01	—
Finishing plants, cotton .....	2261	10.41	10.54	10.65	10.63	—	462.20	445.84	461.15	468.78	—
Finishing plants, synthetics .....	2262	11.08	10.97	11.26	11.23	—	487.52	473.90	465.04	478.40	—
Carpets and rugs .....	227	10.27	10.29	10.55	10.50	—	457.02	440.41	456.82	467.25	—
Yarn and thread mills .....	228	9.91	9.96	10.20	10.27	—	420.18	417.32	417.18	420.04	—
Yarn spinning mills .....	2281	9.92	9.98	10.26	10.32	—	430.53	423.15	427.84	430.34	—
Throwing and winding mills .....	2282	10.04	10.09	10.09	10.24	—	387.54	395.53	380.39	385.02	—
Miscellaneous textile goods .....	229	11.85	11.76	11.96	12.04	—	509.55	506.86	498.73	512.90	—
Apparel and other textile products .....	23	8.42	8.41	8.63	8.67	8.67	320.80	313.69	324.49	328.59	316.46
Men's and boys' suits and coats .....	231	8.63	8.60	8.85	8.87	—	333.12	319.06	328.34	334.40	—
Men's and boys' furnishings .....	232	7.84	7.96	8.03	8.08	—	290.86	291.34	293.10	294.11	—
Men's and boys' shirts .....	2321	7.74	7.79	7.83	8.04	—	282.51	281.22	274.05	283.81	—
Men's and boys' trousers and slacks .....	2325	7.99	8.15	8.30	8.27	—	293.23	297.48	294.65	291.93	—
Men's and boys' work clothing .....	2326	7.76	7.84	7.67	7.69	—	297.21	296.35	291.46	289.91	—
Women's and misses' outerwear .....	233	8.07	8.06	8.25	8.31	—	296.17	291.77	301.95	305.81	—
Women's and misses' blouses and shirts .....	2331	7.25	7.39	7.42	7.56	—	254.48	254.96	257.47	266.87	—
Women's, juniors', and misses' dresses .....	2335	9.17	8.90	9.49	9.73	—	343.88	339.98	344.49	356.12	—
Women's and misses' suits and coats .....	2337	8.07	7.86	8.16	8.18	—	301.01	276.67	303.55	311.66	—
Women's and misses' outerwear, nec .....	2339	7.91	7.97	8.08	8.09	—	289.51	287.72	298.15	297.71	—
Women's and children's undergarments .....	234	8.04	8.13	8.14	8.22	—	307.13	303.25	306.06	307.43	—
Women's and children's underwear .....	2341	7.87	7.94	8.03	8.09	—	300.63	292.99	303.53	303.38	—
Brassieres, girdles, and allied garments .....	2342	8.52	8.69	8.45	8.58	—	324.61	337.17	311.81	318.32	—
Girls' and children's outerwear .....	236	7.79	7.69	8.20	7.97	—	290.57	288.38	308.32	300.47	—
Girls' and children's dresses and blouses .....	2361	7.42	7.41	8.05	7.90	—	273.80	277.13	311.54	306.52	—
Misc. apparel and accessories .....	238	8.01	7.99	8.26	8.31	—	301.18	297.23	310.58	308.30	—
Misc. fabricated textile products .....	239	9.38	9.28	9.55	9.55	—	381.77	361.92	379.14	387.73	—
Curtains and draperies .....	2391	8.31	8.31	8.43	8.56	—	311.63	293.34	301.79	321.86	—
House furnishings, nec .....	2392	8.94	8.89	9.28	9.31	—	375.48	358.27	379.55	385.43	—
Automotive and apparel trimmings .....	2396	11.44	11.08	10.97	11.01	—	466.75	434.34	440.99	454.71	—
Paper and allied products .....	26	15.27	15.18	15.63	15.76	15.66	681.04	663.37	686.16	696.59	684.34
Paper mills .....	262	19.38	19.25	20.04	20.12	—	889.54	877.80	901.80	909.42	—
Paperboard mills .....	263	19.11	18.99	20.03	20.12	—	871.42	852.65	893.34	927.53	—

See footnotes at end of table.



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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	44.7	43.2	44.3	44.4	—	6.2	5.2	6.1	6.0	—
Corrugated and solid fiber boxes .....	2653	44.9	43.3	44.9	45.0	—	6.6	5.2	6.6	6.6	—
Sanitary food containers .....	2656	45.0	42.4	43.0	44.4	—	5.0	4.8	4.3	4.9	—
Folding paperboard boxes .....	2657	44.6	43.6	43.6	43.3	—	6.3	6.1	5.8	5.5	—
Misc. converted paper products .....	267	43.4	42.6	42.7	42.9	—	5.5	4.8	4.6	4.5	—
Paper, coated and laminated, nec .....	2672	44.1	43.8	41.3	41.4	—	5.1	4.6	3.4	3.2	—
Bags: plastics, laminated, and coated .....	2673	42.9	41.4	43.0	42.8	—	5.1	4.5	5.3	5.0	—
Envelopes .....	2677	42.8	42.0	42.0	42.3	—	4.8	4.3	4.0	4.5	—
Printing and publishing .....	27	39.2	38.0	38.7	38.7	37.7	3.7	3.0	3.4	3.4	—
Newspapers .....	271	33.9	32.3	33.8	33.9	—	1.9	1.0	1.9	1.9	—
Periodicals .....	272	36.5	36.1	36.7	36.8	—	2.7	2.0	2.6	2.9	—
Books .....	273	40.5	39.6	39.5	39.7	—	4.3	3.3	4.1	4.0	—
Book publishing .....	2731	38.1	38.1	38.3	37.7	—	3.1	2.6	2.4	2.2	—
Book printing .....	2732	43.2	41.3	40.6	41.5	—	5.8	4.2	5.6	5.6	—
Miscellaneous publishing .....	274	36.5	35.3	36.5	36.3	—	2.8	2.1	3.3	2.7	—
Commercial printing .....	275	40.8	39.8	40.4	40.2	—	4.4	3.8	4.0	3.8	—
Commercial printing, lithographic .....	2752	40.5	39.5	40.3	40.0	—	4.3	3.7	3.9	3.7	—
Commercial printing, nec .....	2759	41.1	40.2	40.7	40.7	—	4.3	3.9	4.1	4.0	—
Manifold business forms .....	276	44.0	41.5	42.7	44.8	—	5.8	3.9	4.8	5.9	—
Blankbooks and bookbinding .....	278	40.5	39.2	39.0	40.2	—	3.1	2.4	2.9	3.4	—
Printing trade services .....	279	40.1	39.3	39.8	39.6	—	4.5	4.4	3.7	3.3	—
Chemicals and allied products .....	28	44.0	43.5	43.3	43.5	42.7	5.5	5.2	5.2	5.1	—
Industrial inorganic chemicals .....	281	46.4	46.9	43.4	43.1	—	6.5	6.0	5.6	5.5	—
Industrial inorganic chemicals, nec .....	2819	44.9	46.2	44.1	43.8	—	6.2	5.8	5.9	5.6	—
Plastics materials and synthetics .....	282	44.5	44.3	42.9	43.5	—	5.6	5.3	5.1	4.8	—
Plastics materials and resins .....	2821	45.4	45.0	44.4	45.3	—	5.6	5.0	5.2	5.1	—
Organic fibers, noncellulosic .....	2824	43.6	42.8	40.9	41.2	—	4.9	5.0	4.3	4.1	—
Drugs .....	283	42.9	41.7	43.1	43.4	—	5.8	5.0	5.1	5.1	—
Pharmaceutical preparations .....	2834	43.3	42.0	43.7	43.9	—	5.8	5.1	4.9	4.9	—
Soap, cleaners, and toilet goods .....	284	42.0	41.7	41.6	41.8	—	4.0	3.8	3.9	4.3	—
Soap and other detergents .....	2841	44.0	43.5	45.3	44.5	—	5.3	4.9	5.7	6.3	—
Polishing, sanitation, and finishing preparations .....	2842,3	42.9	41.5	41.1	42.6	—	4.1	4.1	3.5	3.7	—
Toilet preparations .....	2844	40.8	41.0	40.1	40.1	—	3.3	3.2	3.2	3.7	—
Paints and allied products .....	285	44.4	43.2	42.2	43.3	—	4.9	4.9	4.0	4.3	—
Industrial organic chemicals .....	286	45.2	44.3	45.1	45.2	—	6.1	6.0	6.6	6.4	—
Cyclic crudes and intermediates .....	2865	45.3	44.0	45.2	47.4	—	5.7	5.0	5.9	5.9	—
Industrial organic chemicals, nec .....	2869	45.2	44.4	45.1	44.8	—	6.2	6.2	6.8	6.5	—
Agricultural chemicals .....	287	44.6	45.0	45.4	44.7	—	6.7	6.6	7.0	6.5	—
Miscellaneous chemical products .....	289	44.4	43.2	43.9	43.9	—	5.6	4.7	4.7	4.8	—
Petroleum and coal products .....	29	42.2	44.5	43.9	44.7	43.4	5.3	6.0	6.4	6.0	—
Petroleum refining .....	291	42.5	45.7	43.9	45.4	—	5.3	6.3	5.9	5.6	—
Asphalt paving and roofing materials .....	295	40.9	41.2	44.2	43.5	—	5.2	5.6	8.0	7.6	—
Rubber and misc. plastics products .....	30	43.0	41.9	42.1	42.7	41.3	5.1	4.5	4.6	4.7	—
Tires and inner tubes .....	301	45.0	43.6	42.9	43.9	—	6.8	5.7	5.9	5.9	—
Rubber and plastics footwear .....	302	41.6	40.2	40.5	40.0	—	4.6	1.8	5.6	4.5	—
Hose, belting, gaskets, and packing .....	305	44.3	43.2	42.7	43.7	—	5.7	5.1	4.2	5.2	—
Rubber and plastics hose and belting .....	3052	45.0	43.9	43.8	45.2	—	6.2	5.6	4.7	6.0	—
Fabricated rubber products, nec .....	306	44.5	43.0	42.6	43.8	—	5.7	4.8	4.5	4.7	—
Miscellaneous plastics products, nec .....	308	42.5	41.5	41.9	42.4	—	4.8	4.3	4.5	4.6	—
Leather and leather products .....	31	38.8	37.8	38.0	38.1	36.8	2.4	2.3	2.3	2.3	—
Leather tanning and finishing .....	311	44.1	43.0	40.4	41.1	—	5.4	5.0	4.1	4.5	—
Footwear, except rubber .....	314	36.8	36.2	37.2	37.1	—	1.8	1.8	1.6	1.4	—
Men's footwear, except athletic .....	3143	35.9	36.6	36.7	36.9	—	1.9	2.2	1.3	1.1	—
Women's footwear, except athletic .....	3144	37.5	36.4	37.4	36.9	—	0.7	1.1	2.2	1.5	—
Luggage .....	316	39.6	37.5	37.4	36.8	—	2.1	1.8	2.2	2.4	—
Handbags and personal leather goods .....	317	40.0	37.7	37.8	37.0	—	1.7	1.5	2.2	1.5	—
<b>Service-producing .....</b>		<b>32.9</b>	<b>32.5</b>	<b>33.0</b>	<b>32.9</b>	<b>32.3</b>	—	—	—	—	—
<b>Transportation and public utilities .....</b>		<b>39.8</b>	<b>39.3</b>	<b>39.7</b>	<b>39.1</b>	<b>38.8</b>	—	—	—	—	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	\$13.05	\$12.97	\$13.15	\$13.30	—	\$583.34	\$560.30	\$582.55	\$590.52	—
Corrugated and solid fiber boxes .....	2653	13.08	12.89	13.19	13.35	—	587.29	558.14	592.23	600.75	—
Sanitary food containers .....	2656	12.77	13.27	12.99	13.45	—	574.65	562.65	558.57	597.18	—
Folding paperboard boxes .....	2657	13.88	13.75	13.88	14.09	—	619.05	599.50	605.17	610.10	—
Misc. converted paper products .....	267	13.36	13.26	13.68	13.81	—	579.82	564.88	584.14	592.45	—
Paper, coated and laminated, nec .....	2672	15.34	15.10	15.77	16.04	—	676.49	661.38	651.30	664.06	—
Bags: plastics, laminated, and coated .....	2673	12.07	11.98	12.26	12.45	—	517.80	495.97	527.18	532.86	—
Envelopes .....	2677	12.15	12.14	12.56	12.75	—	520.02	509.88	527.52	539.33	—
Printing and publishing .....	27	13.30	13.27	13.55	13.66	\$13.66	521.36	504.26	524.39	528.64	\$514.98
Newspapers .....	271	13.10	13.09	13.29	13.40	—	444.09	422.81	449.20	454.26	—
Periodicals .....	272	14.66	14.73	14.95	15.05	—	535.09	531.75	548.67	553.84	—
Books .....	273	12.43	12.24	13.10	13.15	—	503.42	484.70	517.45	522.06	—
Book publishing .....	2731	11.81	11.67	12.13	12.21	—	449.96	444.63	464.58	460.32	—
Book printing .....	2732	13.05	12.85	13.94	13.92	—	563.76	530.71	565.96	577.68	—
Miscellaneous publishing .....	274	13.06	12.81	12.98	12.96	—	476.69	452.19	473.77	470.45	—
Commercial printing .....	275	13.57	13.50	13.79	13.90	—	553.66	537.30	557.12	558.78	—
Commercial printing, lithographic .....	2752	13.77	13.77	13.99	14.12	—	557.69	543.92	563.80	564.80	—
Commercial printing, nec .....	2759	12.95	12.79	13.10	13.19	—	532.25	514.16	533.17	536.83	—
Manifold business forms .....	276	14.49	14.22	14.47	14.72	—	637.56	590.13	617.87	659.46	—
Blankbooks and bookbinding .....	278	10.26	10.27	10.69	10.75	—	415.53	402.58	416.91	432.15	—
Printing trade services .....	279	16.59	16.88	16.70	17.01	—	665.26	663.38	664.66	673.60	—
Chemicals and allied products .....	28	16.92	16.89	17.28	17.31	17.29	744.48	734.72	748.22	752.99	738.28
Industrial inorganic chemicals .....	281	18.77	18.90	18.92	18.91	—	870.93	886.41	821.13	815.02	—
Industrial inorganic chemicals, nec .....	2819	18.97	19.22	19.50	19.51	—	851.75	887.96	859.95	854.54	—
Plastics materials and synthetics .....	282	17.88	17.56	18.13	18.28	—	795.66	777.91	777.78	795.18	—
Plastics materials and resins .....	2821	20.00	19.68	20.07	20.32	—	908.00	885.60	891.11	920.50	—
Organic fibers, noncellulosic .....	2824	15.08	14.91	15.36	15.44	—	657.49	638.15	628.22	636.13	—
Drugs .....	283	16.59	16.72	17.20	17.00	—	711.71	697.22	741.32	737.80	—
Pharmaceutical preparations .....	2834	16.34	16.63	17.00	16.75	—	707.52	698.46	742.90	735.33	—
Soap, cleaners, and toilet goods .....	284	13.95	13.99	14.11	14.46	—	585.90	583.38	586.98	604.43	—
Soap and other detergents .....	2841	18.36	18.22	17.49	17.82	—	807.84	792.57	792.30	792.99	—
Polishing, sanitation, and finishing preparations .....	2842,3	13.34	13.40	13.57	13.81	—	572.29	556.10	557.73	588.31	—
Toilet preparations .....	2844	12.19	12.21	12.62	12.95	—	497.35	500.61	506.06	519.30	—
Paints and allied products .....	285	14.39	14.33	14.52	14.62	—	638.92	619.06	612.74	633.05	—
Industrial organic chemicals .....	286	20.17	20.04	20.76	20.73	—	911.68	887.77	936.28	937.00	—
Cyclic crudes and intermediates .....	2865	20.07	19.79	20.52	20.46	—	909.17	870.76	927.50	969.80	—
Industrial organic chemicals, nec .....	2869	20.30	20.21	20.95	20.91	—	917.56	897.32	944.85	936.77	—
Agricultural chemicals .....	287	17.00	17.00	17.49	17.34	—	758.20	765.00	794.05	775.10	—
Miscellaneous chemical products .....	289	15.19	15.12	15.50	15.55	—	674.44	653.18	680.45	682.65	—
Petroleum and coal products .....	29	20.55	20.63	20.95	21.17	21.07	867.21	918.04	919.71	946.30	914.44
Petroleum refining .....	291	22.64	22.89	23.60	23.51	—	962.20	1,046.07	1,036.04	1,067.35	—
Asphalt paving and roofing materials .....	295	15.50	14.54	15.59	15.93	—	633.95	599.05	689.08	692.96	—
Rubber and misc. plastics products .....	30	11.76	11.74	11.97	12.09	12.22	505.68	491.91	503.94	516.24	504.69
Tires and inner tubes .....	301	18.42	18.43	18.55	18.56	—	828.90	803.55	795.80	814.78	—
Rubber and plastics footwear .....	302	9.98	9.91	10.24	10.22	—	415.17	398.38	414.72	408.80	—
Hose, belting, gaskets, and packing .....	305	11.89	11.65	11.84	12.08	—	526.73	503.28	505.57	527.90	—
Rubber and plastics hose and belting .....	3052	11.95	11.83	11.70	11.99	—	537.75	519.34	512.46	541.95	—
Fabricated rubber products, nec .....	306	11.55	11.49	11.73	11.83	—	513.98	494.07	499.70	518.15	—
Miscellaneous plastics products, nec .....	308	11.11	11.10	11.37	11.48	—	472.18	460.65	476.40	486.75	—
Leather and leather products .....	31	9.21	9.32	9.45	9.44	9.63	357.35	352.30	359.10	359.66	354.38
Leather tanning and finishing .....	311	12.02	11.85	12.34	12.19	—	530.08	509.55	498.54	501.01	—
Footwear, except rubber .....	314	8.68	8.88	9.06	9.05	—	319.42	321.46	337.03	335.76	—
Men's footwear, except athletic .....	3143	9.34	9.59	9.77	9.79	—	335.31	350.99	358.56	361.25	—
Women's footwear, except athletic .....	3144	7.52	7.59	7.92	7.88	—	282.00	276.28	296.21	290.77	—
Luggage .....	316	8.84	9.04	9.09	8.76	—	350.06	339.00	339.97	322.37	—
Handbags and personal leather goods .....	317	8.19	8.16	8.29	8.10	—	327.60	307.63	313.36	299.70	—
<b>Service-producing .....</b>		<b>11.96</b>	<b>12.10</b>	<b>12.51</b>	<b>12.49</b>	<b>12.67</b>	<b>393.48</b>	<b>393.25</b>	<b>412.83</b>	<b>410.92</b>	<b>409.24</b>
<b>Transportation and public utilities .....</b>		<b>15.17</b>	<b>15.27</b>	<b>15.53</b>	<b>15.53</b>	<b>15.59</b>	<b>603.77</b>	<b>600.11</b>	<b>616.54</b>	<b>607.22</b>	<b>604.89</b>

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	49.5	48.3	46.5	45.2	-	-	-	-	-	-
Local and interurban passenger transit .....	41	34.4	33.7	34.3	34.4	-	-	-	-	-	-
Local and suburban transportation .....	411	38.5	38.3	38.9	38.8	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	38.3	38.5	39.2	39.2	-	-	-	-	-	-
Trucking and warehousing .....	42	40.3	39.0	40.3	40.3	-	-	-	-	-	-
Trucking and courier services, except air .....	421	40.1	38.9	40.2	40.2	-	-	-	-	-	-
Public warehousing and storage .....	422	41.3	40.0	41.6	41.2	-	-	-	-	-	-
Water transportation:											
Water transportation services .....	449	38.2	38.6	38.0	37.4	-	-	-	-	-	-
Pipelines, except natural gas .....	46	44.5	45.4	46.0	46.1	-	-	-	-	-	-
Transportation services .....	47	37.1	36.9	39.5	38.1	-	-	-	-	-	-
Passenger transportation arrangement .....	472	36.4	36.7	39.6	38.0	-	-	-	-	-	-
Travel agencies .....	4724	36.6	36.8	40.6	38.7	-	-	-	-	-	-
Freight transportation arrangement .....	473	37.2	36.7	39.1	37.5	-	-	-	-	-	-
Communications .....											
Telephone communications .....	481	40.4	40.6	40.9	40.7	-	-	-	-	-	-
Telephone communications, except radio .....	4813	42.0	42.2	42.4	42.4	-	-	-	-	-	-
Telephone communications, except radio .....	4813	42.3	42.9	42.9	42.7	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.5	35.4	35.7	35.5	-	-	-	-	-	-
Cable and other pay television services .....	484	39.6	40.0	40.5	39.9	-	-	-	-	-	-
Electric, gas, and sanitary services .....											
Electric services .....	49	41.8	42.1	43.2	41.9	-	-	-	-	-	-
Electric services .....	491	40.7	41.7	42.9	40.6	-	-	-	-	-	-
Gas production and distribution .....	492	42.7	42.0	43.6	42.6	-	-	-	-	-	-
Combination utility services .....	493	43.5	43.8	43.5	43.1	-	-	-	-	-	-
Sanitary services .....	495	42.4	42.0	43.9	43.5	-	-	-	-	-	-
<b>Wholesale trade</b> .....		<b>38.4</b>	<b>38.1</b>	<b>38.7</b>	<b>38.4</b>	<b>38.0</b>	-	-	-	-	-
Durable goods .....											
Motor vehicles, parts, and supplies .....	50	39.1	38.9	39.4	39.0	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	37.9	37.6	37.7	37.8	-	-	-	-	-	-
Furniture and home furnishings .....	502	38.2	38.1	37.2	37.4	-	-	-	-	-	-
Lumber and other construction materials .....	503	39.5	39.0	40.3	40.3	-	-	-	-	-	-
Professional and commercial equipment .....	504	39.7	39.5	40.6	39.5	-	-	-	-	-	-
Medical and hospital equipment .....	5047	39.2	39.2	40.1	39.3	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	41.8	41.1	41.5	41.4	-	-	-	-	-	-
Electrical goods .....	506	39.3	38.9	39.8	39.5	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	39.2	39.0	39.2	38.9	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.4	39.3	39.8	39.3	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	37.7	37.3	36.9	36.8	-	-	-	-	-	-
Nondurable goods .....											
Paper and paper products .....	51	37.4	36.9	37.6	37.6	-	-	-	-	-	-
Paper and paper products .....	511	36.5	36.5	37.8	37.4	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	36.1	36.1	37.3	36.8	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	37.3	37.0	37.2	36.3	-	-	-	-	-	-
Groceries and related products .....	514	38.5	37.8	38.4	38.8	-	-	-	-	-	-
Farm-product raw materials .....	515	33.7	32.7	34.9	33.6	-	-	-	-	-	-
Chemicals and allied products .....	516	40.1	39.9	40.4	40.2	-	-	-	-	-	-
Petroleum and petroleum products .....	517	37.8	37.7	38.3	38.5	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	37.5	37.2	37.7	37.7	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	36.3	35.6	36.2	36.3	-	-	-	-	-	-
<b>Retail trade</b> .....		<b>29.2</b>	<b>28.1</b>	<b>28.9</b>	<b>29.2</b>	<b>28.0</b>	-	-	-	-	-
Building materials and garden supplies .....											
Building materials and garden supplies .....	52	34.4	33.8	35.0	34.9	-	-	-	-	-	-
Lumber and other building materials .....	521	35.8	35.1	36.8	36.5	-	-	-	-	-	-
Paint, glass, and wallpaper stores .....	523	35.7	34.7	35.8	34.7	-	-	-	-	-	-
Hardware stores .....	525	31.1	30.4	30.3	30.7	-	-	-	-	-	-
Retail nurseries and garden stores .....	526	30.5	29.5	31.1	31.9	-	-	-	-	-	-

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	\$18.02	\$18.10	\$17.80	\$17.82	—	\$891.99	\$874.23	\$827.70	\$805.46	—
Local and interurban passenger transit .....	41	11.00	11.10	11.32	11.31	—	378.40	374.07	388.28	389.06	—
Local and suburban transportation .....	411	11.52	11.66	11.87	11.90	—	443.52	446.58	461.74	461.72	—
Intercity and rural bus transportation .....	413	13.34	13.41	12.94	12.65	—	510.92	516.29	507.25	495.88	—
Trucking and warehousing .....	42	13.48	13.48	13.74	13.79	—	543.24	525.72	553.72	555.74	—
Trucking and courier services, except air .....	421	13.70	13.71	13.98	14.02	—	549.37	533.32	562.00	563.60	—
Public warehousing and storage .....	422	11.15	11.12	11.27	11.51	—	460.50	444.80	468.83	474.21	—
Water transportation:											
Water transportation services .....	449	20.25	20.57	21.51	21.14	—	773.55	794.00	817.38	790.64	—
Pipelines, except natural gas .....	46	20.70	20.33	20.99	20.82	—	921.15	922.98	965.54	959.80	—
Transportation services .....	47	13.39	13.35	14.01	14.42	—	496.77	492.62	553.40	549.40	—
Passenger transportation arrangement .....	472	13.57	13.63	14.56	15.25	—	493.95	500.22	576.58	579.50	—
Travel agencies .....	4724	13.77	13.89	14.85	15.69	—	503.98	511.15	602.91	607.20	—
Freight transportation arrangement .....	473	13.54	13.32	13.81	14.03	—	503.69	488.84	539.97	526.13	—
Communications .....	48	17.21	17.41	17.52	17.61	—	695.28	706.85	716.57	716.73	—
Telephone communications .....	481	17.74	18.02	18.04	18.07	—	745.08	760.44	764.90	766.17	—
Telephone communications, except radio .....	4813	18.29	18.55	18.55	18.71	—	773.67	795.80	795.80	798.92	—
Radio and television broadcasting .....	483	17.74	17.51	18.09	18.39	—	629.77	619.85	645.81	652.85	—
Cable and other pay television services .....	484	13.73	14.01	14.20	14.33	—	543.71	560.40	575.10	571.77	—
Electric, gas, and sanitary services .....	49	19.50	19.79	20.44	20.19	—	815.10	833.16	883.01	845.96	—
Electric services .....	491	20.54	20.85	21.76	21.32	—	835.98	869.45	933.50	865.59	—
Gas production and distribution .....	492	18.50	18.26	19.13	18.87	—	789.95	766.92	834.07	803.86	—
Combination utility services .....	493	23.22	24.36	24.29	23.84	—	1,010.07	1,066.97	1,056.62	1,027.50	—
Sanitary services .....	495	15.39	15.13	16.03	16.36	—	652.54	635.46	703.72	711.66	—
<b>Wholesale trade</b> .....		13.72	13.77	14.28	14.27	\$14.36	526.85	524.64	552.64	547.97	\$545.68
Durable goods .....											
Motor vehicles, parts, and supplies .....	501	12.67	12.79	13.17	13.07	—	480.19	480.90	496.51	494.05	—
Furniture and home furnishings .....	502	12.71	12.63	13.28	13.23	—	485.52	481.20	494.02	494.80	—
Lumber and other construction materials .....	503	12.87	12.97	13.48	13.44	—	508.37	505.83	543.24	541.63	—
Professional and commercial equipment .....	504	16.73	16.91	17.57	17.58	—	664.18	667.95	713.34	694.41	—
Medical and hospital equipment .....	5047	16.58	16.62	17.70	17.67	—	649.94	651.50	709.77	694.43	—
Metals and minerals, except petroleum .....	505	13.76	13.78	14.07	13.90	—	575.17	566.36	583.91	575.46	—
Electrical goods .....	506	15.48	15.46	16.07	16.00	—	608.36	601.39	639.59	632.00	—
Hardware, plumbing, and heating equipment .....	507	13.51	13.55	14.03	13.99	—	529.59	528.45	549.98	544.21	—
Machinery, equipment, and supplies .....	508	14.32	14.43	15.10	15.02	—	564.21	567.10	600.98	590.29	—
Misc. wholesale trade durable goods .....	509	11.20	11.18	11.51	11.60	—	422.24	417.01	424.72	426.88	—
Nondurable goods .....											
Paper and paper products .....	511	13.10	13.24	13.89	13.82	—	478.15	483.26	525.04	516.87	—
Drugs, proprietaries, and sundries .....	512	16.80	16.51	17.73	17.82	—	606.48	596.01	661.33	655.78	—
Apparel, piece goods, and notions .....	513	12.54	12.73	13.03	13.20	—	467.74	471.01	484.72	479.16	—
Groceries and related products .....	514	13.18	13.03	13.28	13.35	—	507.43	492.53	509.95	517.98	—
Farm-product raw materials .....	515	9.84	9.84	10.17	10.23	—	331.61	321.77	354.93	343.73	—
Chemicals and allied products .....	516	14.67	14.62	15.52	15.48	—	588.27	583.34	627.01	622.30	—
Petroleum and petroleum products .....	517	11.90	12.00	12.05	12.13	—	449.82	452.40	461.52	467.01	—
Beer, wine, and distilled beverages .....	518	15.31	15.11	15.53	15.75	—	574.13	562.09	585.48	593.78	—
Misc. wholesale trade nondurable goods .....	519	10.61	10.73	11.05	11.10	—	385.14	381.99	400.01	402.93	—
<b>Retail trade</b> .....		8.51	8.63	8.87	8.90	9.03	248.49	242.50	256.34	259.88	252.84
Building materials and garden supplies .....											
Lumber and other building materials .....	521	10.36	10.50	11.11	11.10	—	370.89	368.55	408.85	405.15	—
Paint, glass, and wallpaper stores .....	523	10.62	10.49	10.87	10.85	—	379.13	364.00	389.15	376.50	—
Hardware stores .....	525	8.32	8.45	8.67	8.64	—	258.75	256.88	262.70	265.25	—
Retail nurseries and garden stores .....	526	9.13	9.38	9.60	9.61	—	278.47	276.71	298.56	306.56	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	31.2	28.2	29.5	30.9	-	-	-	-	-	-
Department stores .....	531	31.3	28.2	29.6	31.0	-	-	-	-	-	-
Variety stores .....	533	29.3	26.0	27.6	29.4	-	-	-	-	-	-
Misc. general merchandise stores .....	539	31.1	29.1	29.9	31.0	-	-	-	-	-	-
Food stores .....	54	29.6	29.1	29.6	29.4	-	-	-	-	-	-
Grocery stores .....	541	29.6	29.2	29.8	29.4	-	-	-	-	-	-
Retail bakeries .....	546	29.4	27.8	28.7	28.9	-	-	-	-	-	-
Automotive dealers and service stations .....	55	35.2	35.2	35.6	35.3	-	-	-	-	-	-
New and used car dealers .....	551	36.8	36.7	37.1	36.7	-	-	-	-	-	-
Auto and home supply stores .....	553	37.5	37.2	38.2	37.8	-	-	-	-	-	-
Gasoline service stations .....	554	31.4	31.6	31.9	31.7	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.2	35.7	36.1	35.3	-	-	-	-	-	-
Apparel and accessory stores .....	56	27.3	25.9	26.3	27.3	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	30.0	28.0	28.2	29.4	-	-	-	-	-	-
Women's clothing stores .....	562	25.1	23.7	23.4	23.9	-	-	-	-	-	-
Family clothing stores .....	565	28.2	26.8	27.4	28.9	-	-	-	-	-	-
Shoe stores .....	566	26.9	25.9	26.2	27.1	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	33.5	32.5	32.9	33.4	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.1	32.2	33.1	33.3	-	-	-	-	-	-
Household appliance stores .....	572	35.3	34.0	34.2	35.1	-	-	-	-	-	-
Radio, television, and computer stores .....	573	33.8	32.7	32.5	33.3	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	35.0	33.0	32.6	34.5	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	26.7	24.5	23.9	25.0	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.2	24.4	25.3	25.4	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	30.5	28.9	29.4	30.3	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	28.9	28.6	28.7	29.0	-	-	-	-	-	-
Used merchandise stores .....	593	30.6	30.3	30.2	30.7	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	29.3	26.7	27.4	28.5	-	-	-	-	-	-
Nonstore retailers .....	596	34.5	31.9	33.1	35.1	-	-	-	-	-	-
Fuel dealers .....	598	39.3	38.6	38.5	38.4	-	-	-	-	-	-
Retail stores, nec .....	599	31.0	29.6	30.5	31.4	-	-	-	-	-	-
Optical goods stores .....	5995	33.0	33.2	34.0	33.7	-	-	-	-	-	-
Miscellaneous retail stores, nec .....	5999	30.7	29.7	30.5	31.2	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		35.9	36.1	36.9	36.1	36.0	-	-	-	-	-
Depository institutions .....	60	34.9	35.1	36.4	35.1	-	-	-	-	-	-
Commercial banks .....	602	34.6	34.8	36.5	35.0	-	-	-	-	-	-
State commercial banks .....	6022	35.0	35.0	36.1	35.0	-	-	-	-	-	-
National and commercial banks, nec .....	6021,9	34.3	34.7	36.9	34.9	-	-	-	-	-	-
Credit unions .....	606	35.7	35.8	35.9	35.6	-	-	-	-	-	-
Nondepository institutions .....	61	37.2	37.4	39.7	38.3	-	-	-	-	-	-
Personal credit institutions .....	614	37.8	37.5	40.4	38.6	-	-	-	-	-	-
Security and commodity brokers: Security and commodity services .....	628	37.3	37.4	39.5	37.7	-	-	-	-	-	-
Insurance carriers .....	63	38.5	39.0	39.1	38.6	-	-	-	-	-	-
Life insurance .....	631	37.7	38.5	39.0	38.6	-	-	-	-	-	-
Medical service and health insurance .....	632	39.3	39.3	38.9	38.5	-	-	-	-	-	-
Hospital and medical service plans .....	6324	39.7	39.8	39.3	38.9	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	38.9	39.6	39.0	38.7	-	-	-	-	-	-
<b>Services</b> .....		32.6	32.4	32.8	32.6	32.3	-	-	-	-	-
Agricultural services .....	07	32.6	31.9	34.6	33.8	-	-	-	-	-	-

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	\$8.29	\$8.43	\$8.56	\$8.62	—	\$258.65	\$237.73	\$252.52	\$266.36	—
Department stores .....	531	8.35	8.47	8.61	8.68	—	261.36	238.85	254.86	269.08	—
Variety stores .....	533	7.47	7.67	7.73	7.69	—	218.87	199.42	213.35	226.09	—
Misc. general merchandise stores .....	539	8.13	8.33	8.38	8.42	—	252.84	242.40	250.56	261.02	—
Food stores .....	54	8.81	8.94	9.19	9.16	—	260.78	260.15	272.02	269.30	—
Grocery stores .....	541	8.94	9.04	9.29	9.27	—	264.62	263.97	276.84	272.54	—
Retail bakeries .....	546	7.78	7.86	8.20	8.28	—	228.73	218.51	235.34	239.29	—
Automotive dealers and service stations .....	55	11.54	11.59	12.27	12.24	—	406.21	407.97	436.81	432.07	—
New and used car dealers .....	551	14.36	14.45	15.40	15.33	—	528.45	530.32	571.34	562.61	—
Auto and home supply stores .....	553	9.64	9.67	10.19	10.20	—	361.50	359.72	389.26	385.56	—
Gasoline service stations .....	554	7.71	7.69	7.95	7.96	—	242.09	243.00	253.61	252.33	—
Automotive dealers, nec .....	559	12.61	12.84	13.62	13.61	—	443.87	458.39	491.68	480.43	—
Apparel and accessory stores .....	56	8.17	8.28	8.57	8.59	—	223.04	214.45	225.39	234.51	—
Men's and boys' clothing stores .....	561	9.89	10.31	10.21	10.27	—	296.70	288.68	287.92	301.94	—
Women's clothing stores .....	562	8.08	8.17	8.52	8.47	—	202.81	193.63	199.37	202.43	—
Family clothing stores .....	565	7.85	7.89	8.35	8.40	—	221.37	211.45	228.79	242.76	—
Shoe stores .....	566	8.23	8.23	8.27	8.38	—	221.39	213.16	216.67	227.10	—
Furniture and home furnishings stores .....	57	11.56	11.73	12.03	12.10	—	387.26	381.23	395.79	404.14	—
Furniture and home furnishings stores .....	571	11.03	10.95	11.46	11.60	—	365.09	352.59	379.33	386.28	—
Household appliance stores .....	572	11.06	11.05	11.31	11.56	—	390.42	375.70	386.80	405.76	—
Radio, television, and computer stores .....	573	12.24	12.73	12.80	12.73	—	413.71	416.27	416.00	423.91	—
Radio, television, and electronic stores .....	5731	11.46	11.54	11.77	12.10	—	401.10	380.82	383.70	417.45	—
Record and prerecorded tape stores .....	5735	6.92	7.33	7.16	7.10	—	184.76	179.59	171.12	177.50	—
Eating and drinking places <sup>4</sup> .....	58	6.28	6.24	6.45	6.51	—	158.26	152.26	163.19	165.35	—
Miscellaneous retail establishments .....	59	9.12	9.41	9.53	9.54	—	278.16	271.95	280.18	289.06	—
Drug stores and proprietary stores .....	591	9.85	9.91	10.17	10.21	—	284.67	283.43	291.88	296.09	—
Used merchandise stores .....	593	7.76	7.73	8.00	8.09	—	237.46	234.22	241.60	248.36	—
Miscellaneous shopping goods stores .....	594	8.36	8.86	8.79	8.70	—	244.95	236.56	240.85	247.95	—
Nonstore retailers .....	596	9.60	9.84	9.90	10.07	—	331.20	313.90	327.69	353.46	—
Fuel dealers .....	598	12.87	12.88	13.11	13.32	—	505.79	497.17	504.74	511.49	—
Retail stores, nec .....	599	9.16	9.30	9.65	9.73	—	283.96	275.28	294.33	305.52	—
Optical goods stores .....	5995	11.18	11.11	11.37	11.48	—	368.94	368.85	386.58	386.88	—
Miscellaneous retail stores, nec .....	5999	9.45	9.61	9.95	10.10	—	290.12	285.42	303.48	315.12	—
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		13.64	13.70	14.42	14.40	\$14.46	489.68	494.57	532.10	519.84	\$520.56
Depository institutions .....	60	10.55	10.57	11.09	11.14	—	368.20	371.01	403.68	391.01	—
Commercial banks .....	602	10.13	10.11	10.70	10.70	—	350.50	351.83	390.55	374.50	—
State commercial banks .....	6022	9.94	9.98	10.38	10.37	—	347.90	349.30	374.72	362.95	—
National and commercial banks, nec .....	6021,9	10.26	10.20	10.93	10.94	—	351.92	353.94	403.32	381.81	—
Credit unions .....	606	10.32	10.46	10.79	10.79	—	368.42	374.47	387.36	384.12	—
Nondepository institutions .....	61	14.07	14.11	15.00	14.95	—	523.40	527.71	595.50	572.59	—
Personal credit institutions .....	614	11.85	11.85	12.37	12.27	—	447.93	444.38	499.75	473.62	—
Security and commodity brokers: Security and commodity services .....	628	20.07	20.28	21.37	21.33	—	748.61	758.47	844.12	804.14	—
Insurance carriers .....	63	16.16	16.26	16.92	16.76	—	622.16	634.14	661.57	646.94	—
Life insurance .....	631	14.91	14.74	15.33	15.26	—	562.11	567.49	597.87	589.04	—
Medical service and health insurance .....	632	15.18	15.05	16.27	16.17	—	596.57	591.47	632.90	622.55	—
Hospital and medical service plans .....	6324	15.60	15.37	16.67	16.60	—	619.32	611.73	655.13	645.74	—
Fire, marine, and casualty insurance .....	633	17.51	17.88	18.28	18.03	—	681.14	708.05	712.92	697.76	—
<b>Services</b> .....		12.61	12.66	13.15	13.18	13.30	411.09	410.18	431.32	429.67	429.59
Agricultural services .....	07	9.96	10.01	10.16	10.25	—	324.70	319.32	351.54	346.45	—

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	28.3	28.4	28.6	28.0	—	—	—	—	—	—
Landscape and horticultural services .....	078	34.6	33.7	36.9	36.3	—	—	—	—	—	
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	30.2	29.7	31.2	30.0	—	—	—	—	—	
Personal services:											
Laundry, cleaning, and garment services .....	721	34.4	33.4	34.3	34.3	—	—	—	—	—	
Beauty shops <sup>4</sup> .....	723	28.5	27.7	28.0	28.4	—	—	—	—	—	
Miscellaneous personal services .....	729	27.7	24.0	27.6	27.4	—	—	—	—	—	
Business services											
Advertising .....	731	33.6	33.4	33.8	33.9	—	—	—	—	—	
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	37.2	37.2	36.2	36.0	—	—	—	—	—	
Services to buildings .....	734	28.4	28.1	28.6	28.8	—	—	—	—	—	
Disinfecting and pest control services .....	7342	35.4	35.4	38.9	38.2	—	—	—	—	—	
Building maintenance services, nec .....	7349	27.8	27.4	27.6	27.9	—	—	—	—	—	
Miscellaneous equipment rental and leasing .....	735	38.9	38.0	39.1	39.3	—	—	—	—	—	
Medical equipment rental .....	7352	36.7	36.8	37.3	38.1	—	—	—	—	—	
Heavy construction equipment rental .....	7353	40.5	39.3	40.8	40.9	—	—	—	—	—	
Equipment rental and leasing, nec .....	7359	38.9	37.9	39.0	39.1	—	—	—	—	—	
Personnel supply services:											
Help supply services .....	7363	32.6	32.6	32.5	33.0	—	—	—	—	—	
Computer and data processing services .....	737	38.4	38.2	39.2	38.4	—	—	—	—	—	
Computer programming services .....	7371	38.1	37.9	38.8	38.6	—	—	—	—	—	
Computer integrated systems design .....	7373	38.6	39.1	40.7	39.5	—	—	—	—	—	
Information retrieval services .....	7375	38.2	38.4	39.3	38.8	—	—	—	—	—	
Computer maintenance and repair .....	7378	38.8	38.5	40.7	39.5	—	—	—	—	—	
Miscellaneous business services .....	738	33.2	32.7	33.5	33.6	—	—	—	—	—	
Detective and armored car services .....	7381	34.5	34.0	34.8	35.1	—	—	—	—	—	
Security systems services .....	7382	35.3	35.7	37.0	36.8	—	—	—	—	—	
Auto repair, services, and parking											
Automotive rentals, without drivers .....	751	36.4	36.4	36.5	36.0	—	—	—	—	—	
Passenger car rental .....	7514	36.5	36.3	36.2	35.5	—	—	—	—	—	
Automobile parking .....	752	33.1	32.8	32.9	32.9	—	—	—	—	—	
Automotive repair shops .....	753	38.1	38.0	37.9	37.9	—	—	—	—	—	
Automotive and tire repair shops .....	7532,4	38.3	38.1	38.0	38.2	—	—	—	—	—	
General automotive repair shops .....	7538	37.6	37.6	37.8	37.5	—	—	—	—	—	
Automotive services, except repair .....	754	30.7	29.2	30.2	30.4	—	—	—	—	—	
Carwashes .....	7542	27.5	24.9	26.5	27.3	—	—	—	—	—	
Miscellaneous repair services .....	76	38.4	38.0	37.9	37.9	—	—	—	—	—	
Motion pictures											
Motion picture production and services .....	781	39.8	38.8	39.5	40.6	—	—	—	—	—	
Video tape rental .....	784	23.8	23.9	23.4	23.1	—	—	—	—	—	
Amusement and recreation services											
Bowling centers .....	793	24.8	24.8	25.3	25.1	—	—	—	—	—	
Misc. amusement and recreation services .....	799	26.1	25.5	26.0	26.0	—	—	—	—	—	
Physical fitness facilities .....	7991	18.6	19.0	19.7	19.1	—	—	—	—	—	
Membership sports and recreation clubs .....	7997	29.2	27.1	27.4	28.8	—	—	—	—	—	
Health services											
Offices and clinics of medical doctors .....	801	33.1	33.1	33.2	33.0	—	—	—	—	—	
Offices and clinics of dentists .....	802	28.5	28.1	28.4	28.4	—	—	—	—	—	
Offices and clinics of other health practitioners .....	804	30.0	30.0	30.6	30.2	—	—	—	—	—	
Nursing and personal care facilities .....	805	32.4	32.4	32.8	32.6	—	—	—	—	—	
Intermediate care facilities .....	8052	32.0	31.7	32.0	31.7	—	—	—	—	—	
Hospitals .....	806	35.1	35.2	34.9	34.9	—	—	—	—	—	

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	\$9.84	\$9.81	\$10.12	\$10.16	—	\$278.47	\$278.60	\$289.43	\$284.48	—
Landscape and horticultural services .....	078	10.08	10.19	10.21	10.34	—	348.77	343.40	376.75	375.34	—
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	8.95	8.86	9.12	9.26	—	270.29	263.14	284.54	277.80	—
Personal services:											
Laundry, cleaning, and garment services .....	721	8.23	8.21	8.55	8.60	—	283.11	274.21	293.27	294.98	—
Beauty shops <sup>4</sup> .....	723	9.45	9.23	9.40	9.68	—	269.33	255.67	263.20	274.91	—
Miscellaneous personal services .....	729	9.01	8.78	9.39	9.48	—	249.58	210.72	259.16	259.75	—
Business services .....	73	12.09	12.23	12.82	12.79	—	406.22	408.48	433.32	433.58	—
Advertising .....	731	17.11	17.08	17.89	17.97	—	621.09	618.30	674.45	650.51	—
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	11.08	11.21	11.45	11.47	—	412.18	417.01	414.49	412.92	—
Services to buildings .....	734	8.07	8.09	8.34	8.33	—	229.19	227.33	238.52	239.90	—
Disinfecting and pest control services .....	7342	11.00	10.89	11.56	11.37	—	389.40	385.51	449.68	434.33	—
Building maintenance services, nec .....	7349	7.73	7.75	7.90	7.94	—	214.89	212.35	218.04	221.53	—
Miscellaneous equipment rental and leasing .....	735	12.25	12.29	12.99	13.11	—	476.53	467.02	507.91	515.22	—
Medical equipment rental .....	7352	11.86	12.02	13.04	12.99	—	435.26	442.34	486.39	494.92	—
Heavy construction equipment rental .....	7353	15.98	15.78	16.73	17.05	—	647.19	620.15	682.58	697.35	—
Equipment rental and leasing, nec .....	7359	11.23	11.32	11.83	11.91	—	436.85	429.03	461.37	465.68	—
Personnel supply services:											
Help supply services .....	7363	9.87	10.01	10.28	10.36	—	321.76	326.33	334.10	341.88	—
Computer and data processing services .....	737	20.56	20.48	21.73	21.56	—	789.50	782.34	851.82	827.90	—
Computer programming services .....	7371	23.70	23.64	25.06	24.80	—	902.97	895.96	972.33	957.28	—
Computer integrated systems design .....	7373	20.61	20.57	21.08	20.97	—	795.55	804.29	857.96	828.32	—
Information retrieval services .....	7375	15.56	16.06	15.96	15.65	—	594.39	616.70	627.23	607.22	—
Computer maintenance and repair .....	7378	15.46	15.35	17.53	17.60	—	599.85	590.98	713.47	695.20	—
Miscellaneous business services .....	738	9.96	9.96	10.21	10.24	—	330.67	325.69	342.04	344.06	—
Detective and armored car services .....	7381	8.11	8.08	8.41	8.51	—	279.80	274.72	292.67	298.70	—
Security systems services .....	7382	12.75	12.75	13.74	14.01	—	450.08	455.18	508.38	515.57	—
Auto repair, services, and parking .....	75	10.86	10.92	11.22	11.27	—	388.79	386.57	399.43	401.21	—
Automotive rentals, without drivers .....	751	10.32	10.43	10.71	10.78	—	375.65	379.65	390.92	388.08	—
Passenger car rental .....	7514	9.29	9.42	9.61	9.67	—	339.09	341.95	347.88	343.29	—
Automobile parking .....	752	8.42	8.14	8.21	8.43	—	278.70	266.99	270.11	277.35	—
Automotive repair shops .....	753	12.16	12.17	12.60	12.65	—	463.30	462.46	477.54	479.44	—
Automotive and tire repair shops .....	7532.4	12.77	12.81	13.33	13.40	—	489.09	488.06	506.54	511.88	—
General automotive repair shops .....	7538	12.08	12.14	12.40	12.40	—	454.21	456.46	468.72	465.00	—
Automotive services, except repair .....	754	8.25	8.40	8.60	8.62	—	253.28	245.28	259.72	262.05	—
Carwashes .....	7542	7.26	7.30	7.53	7.58	—	199.65	181.77	199.55	206.93	—
Miscellaneous repair services .....	76	13.01	12.95	13.46	13.53	—	499.58	492.10	510.13	512.79	—
Motion pictures .....	78	14.97	14.59	15.25	15.19	—	449.10	433.32	460.55	460.26	—
Motion picture production and services .....	781	20.86	20.39	20.92	20.79	—	830.23	791.13	826.34	844.07	—
Video tape rental .....	784	6.86	7.04	7.22	7.14	—	163.27	168.26	168.95	164.93	—
Amusement and recreation services .....	79	9.87	9.81	10.15	10.23	—	262.54	258.98	268.98	270.07	—
Bowling centers .....	793	7.54	7.44	7.64	7.64	—	186.99	184.51	193.29	191.76	—
Misc. amusement and recreation services .....	799	9.14	9.08	9.27	9.41	—	238.55	231.54	241.02	244.66	—
Physical fitness facilities .....	7991	8.70	8.74	8.93	9.03	—	161.82	166.06	175.92	172.47	—
Membership sports and recreation clubs .....	7997	9.62	9.57	9.77	10.03	—	280.90	259.35	267.70	288.86	—
Health services .....	80	13.51	13.55	13.89	13.96	—	447.18	448.51	461.15	460.68	—
Offices and clinics of medical doctors .....	801	14.11	14.12	14.47	14.54	—	467.04	467.37	478.96	476.91	—
Offices and clinics of dentists .....	802	13.90	13.96	14.37	14.50	—	396.15	392.28	408.11	411.80	—
Offices and clinics of other health practitioners .....	804	12.96	12.99	13.06	13.00	—	388.80	389.70	399.64	392.60	—
Nursing and personal care facilities .....	805	9.53	9.62	9.87	9.93	—	308.77	311.69	323.74	323.72	—
Intermediate care facilities .....	8052	9.02	9.12	9.43	9.51	—	288.64	289.10	301.76	301.47	—
Hospitals .....	806	15.26	15.27	15.65	15.70	—	535.63	537.50	546.19	547.93	—

See footnotes at end of table.



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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	29.1	29.2	29.0	28.8	-	-	-	-	-	-
Legal services .....	81	34.7	34.6	35.5	34.8	-	-	-	-	-	-
Social services .....	83	31.2	31.0	31.6	31.2	-	-	-	-	-	-
Individual and family services .....	832	31.4	31.2	31.8	31.5	-	-	-	-	-	-
Job training and related services .....	833	30.7	30.6	31.0	30.7	-	-	-	-	-	-
Child day care services .....	835	29.8	29.4	29.9	29.5	-	-	-	-	-	-
Residential care .....	836	32.0	32.0	32.7	32.2	-	-	-	-	-	-
Social services, nec .....	839	32.2	32.3	33.0	32.7	-	-	-	-	-	-
Membership organizations:											
Professional organizations .....	862	35.1	34.8	36.0	35.2	-	-	-	-	-	-
Engineering and management services .....	87	37.0	37.1	37.5	37.0	-	-	-	-	-	-
Engineering and architectural services .....	871	39.4	39.0	39.5	39.3	-	-	-	-	-	-
Engineering services .....	8711	39.7	39.3	39.7	39.6	-	-	-	-	-	-
Architectural services .....	8712	38.4	38.2	38.8	38.1	-	-	-	-	-	-
Surveying services .....	8713	38.0	37.4	38.1	38.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	35.8	36.9	36.7	35.8	-	-	-	-	-	-
Research and testing services .....	873	36.3	36.2	36.7	36.5	-	-	-	-	-	-
Commercial physical research .....	8731	39.6	40.0	39.7	39.3	-	-	-	-	-	-
Commercial nonphysical research .....	8732	30.4	29.5	31.3	31.9	-	-	-	-	-	-
Noncommercial research organizations .....	8733	35.8	35.7	36.3	35.7	-	-	-	-	-	-
Management and public relations .....	874	35.9	35.8	36.7	36.0	-	-	-	-	-	-
Management services .....	8741	34.7	34.7	35.5	34.9	-	-	-	-	-	-
Management consulting services .....	8742	36.3	36.2	37.2	36.5	-	-	-	-	-	-
Public relations services .....	8743	34.3	34.9	34.5	33.7	-	-	-	-	-	-
Services, nec .....	89	34.6	34.0	35.9	35.4	-	-	-	-	-	-

See footnotes at end of table.

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

**B-15. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	\$11.45	\$11.38	\$11.66	\$11.69	—	\$333.20	\$332.30	\$338.14	\$336.67	—
Legal services .....	81	17.61	17.57	18.55	18.48	—	611.07	607.92	658.53	643.10	—
Social services .....	83	8.98	9.04	9.38	9.41	—	280.18	280.24	296.41	293.59	—
Individual and family services .....	832	9.46	9.54	9.88	9.85	—	297.04	297.65	314.18	310.28	—
Job training and related services .....	833	8.68	8.74	9.16	9.16	—	266.48	267.44	283.96	281.21	—
Child day care services .....	835	7.77	7.81	8.10	8.16	—	231.55	229.61	242.19	240.72	—
Residential care .....	836	9.10	9.13	9.44	9.53	—	291.20	292.16	308.69	306.87	—
Social services, nec .....	839	10.85	10.96	11.33	11.26	—	349.37	354.01	373.89	368.20	—
Membership organizations:											
Professional organizations .....	862	18.07	18.31	18.50	18.36	—	634.26	637.19	666.00	646.27	—
Engineering and management services .....	87	17.55	17.52	18.25	18.20	—	649.35	649.99	684.38	673.40	—
Engineering and architectural services .....	871	19.39	19.37	19.95	19.88	—	763.97	755.43	788.03	781.28	—
Engineering services .....	8711	20.30	20.25	20.88	20.82	—	805.91	795.83	828.94	824.47	—
Architectural services .....	8712	17.11	17.23	17.79	17.67	—	657.02	658.19	690.25	673.23	—
Surveying services .....	8713	13.44	13.53	14.02	13.92	—	510.72	506.02	534.16	530.35	—
Accounting, auditing, and bookkeeping .....	872	15.11	14.90	15.89	15.73	—	540.94	549.81	583.16	563.13	—
Research and testing services .....	873	18.03	18.21	18.49	18.37	—	654.49	659.20	678.58	670.51	—
Commercial physical research .....	8731	19.97	19.87	20.57	20.34	—	790.81	794.80	816.63	799.36	—
Commercial nonphysical research .....	8732	14.08	14.80	15.19	14.81	—	428.03	436.60	475.45	472.44	—
Noncommercial research organizations .....	8733	21.48	21.56	21.46	21.73	—	768.98	769.69	779.00	775.76	—
Management and public relations .....	874	16.65	16.73	17.71	17.76	—	597.74	598.93	649.96	639.36	—
Management services .....	8741	15.29	15.13	15.85	15.89	—	530.56	525.01	562.68	554.56	—
Management consulting services .....	8742	18.39	18.76	20.29	20.38	—	667.56	679.11	754.79	743.87	—
Public relations services .....	8743	15.29	15.56	16.27	15.93	—	524.45	543.04	561.32	536.84	—
Services, nec .....	89	16.86	17.49	17.71	17.69	—	583.36	594.66	635.79	626.23	—

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

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

<sup>5</sup> Excludes nonoffice commissioned real estate sales agents.

— Data not available.

<sup>P</sup> = preliminary.

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

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

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

Because of special circumstances in the aerospace industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargaining agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table B-15a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.

**B-15a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing**

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Nov. 1997	Dec. 1997	Nov. 1998	Dec. 1998 <sup>P</sup>	Nov. 1997	Dec. 1997	Nov. 1998	Dec. 1998 <sup>P</sup>
Average hourly earnings, excluding lump-sum payments .....	\$20.91	\$21.11	\$21.54	\$21.54	\$21.06	\$21.17	\$21.61	\$21.56
Average hourly earnings, including lump-sum payments .....	21.21	21.41	21.63	21.62	21.06	21.35	21.83	21.56

P = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**B-16. Average hourly earnings, excluding overtime<sup>1</sup>, of production workers on manufacturing payrolls**

Industry	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998P	Jan. 1999P
<b>Manufacturing</b> .....	\$12.68	\$12.70	\$12.87	\$12.94	\$12.98
<b>Durable goods</b> .....	13.19	13.19	13.32	13.37	13.41
Lumber and wood products .....	10.37	10.39	10.67	10.74	(2)
Furniture and fixtures .....	10.26	10.29	10.52	10.58	(2)
Stone, clay, and glass products .....	12.56	12.61	12.74	12.80	(2)
Primary metal industries .....	14.29	14.40	14.33	14.31	(2)
Fabricated metal products .....	12.23	12.27	12.51	12.60	(2)
Industrial machinery and equipment .....	13.44	13.48	13.83	13.84	(2)
Electronic and other electrical equipment .....	12.41	12.40	12.57	12.65	(2)
Transportation equipment .....	16.74	16.61	16.45	16.46	(2)
Instruments and related products .....	13.02	13.06	13.34	13.42	(2)
Miscellaneous manufacturing .....	10.35	10.42	10.59	10.72	(2)
<b>Nondurable goods</b> .....	11.90	11.95	12.21	12.29	\$12.35
Food and kindred products .....	11.03	11.03	11.20	11.28	(2)
Tobacco products .....	17.79	17.87	16.85	16.36	(2)
Textile mill products .....	9.67	9.71	9.96	9.98	(2)
Apparel and other textile products .....	8.14	8.18	8.39	8.42	(2)
Paper and allied products .....	14.29	14.29	14.66	14.81	(2)
Printing and publishing .....	12.69	12.77	12.98	13.09	(2)
Chemicals and allied products .....	15.92	15.95	16.30	16.35	(2)
Petroleum and coal products .....	19.34	19.33	19.52	19.83	(2)
Rubber and misc. plastics products .....	11.11	11.14	11.36	11.45	(2)
Leather and leather products .....	8.94	9.04	9.18	9.17	(2)

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

<sup>2</sup> Not available.

P = preliminary.

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

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**B-17. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry, in current and constant (1982) dollars**

Industry	Average hourly earnings					Average weekly earnings				
	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Nov. 1998	Dec. 1998 <sup>P</sup>	Jan. 1999 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$12.53	\$12.60	\$12.99	\$12.99	\$13.10	\$436.04	\$430.92	\$450.75	\$450.75	\$445.40
Constant (1982) dollars .....	7.67	7.71	7.83	7.83	(2)	267.02	263.56	271.86	271.86	(2)
<b>Mining:</b>										
Current dollars .....	16.52	16.65	17.34	17.39	\$17.35	746.70	749.25	761.23	758.20	\$737.38
Constant (1982) dollars .....	10.12	10.18	10.46	10.49	(2)	457.26	458.26	459.13	457.30	(2)
<b>Construction:</b>										
Current dollars .....	16.37	16.25	16.79	16.85	\$16.73	630.25	607.75	646.42	657.15	\$630.72
Constant (1982) dollars .....	10.02	9.94	10.13	10.16	(2)	385.95	371.71	389.88	396.35	(2)
<b>Manufacturing:</b>										
Current dollars .....	13.47	13.40	13.60	13.68	\$13.67	579.21	561.46	572.56	582.77	\$564.57
Constant (1982) dollars .....	8.25	8.20	8.20	8.25	(2)	354.69	343.40	345.33	351.49	(2)
<b>Transportation and public utilities:</b>										
Current dollars .....	15.17	15.27	15.53	15.53	\$15.59	603.77	600.11	616.54	607.22	\$604.89
Constant (1982) dollars .....	9.29	9.34	9.37	9.37	(2)	369.73	367.04	371.86	366.24	(2)
<b>Wholesale trade:</b>										
Current dollars .....	13.72	13.77	14.28	14.27	\$14.36	526.85	524.64	552.64	547.97	\$545.68
Constant (1982) dollars .....	8.40	8.42	8.61	8.61	(2)	322.63	320.88	333.32	330.50	(2)
<b>Retail trade</b>										
Current dollars .....	8.51	8.63	8.87	8.90	\$9.03	248.49	242.50	256.34	259.88	\$252.84
Constant (1982) dollars .....	5.21	5.28	5.35	5.37	(2)	152.17	148.32	154.61	156.74	(2)
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	13.64	13.70	14.42	14.40	\$14.46	489.68	494.57	532.10	519.84	\$520.56
Constant (1982) dollars .....	8.35	8.38	8.70	8.69	(2)	299.87	302.49	320.93	313.53	(2)
<b>Services:</b>										
Current dollars .....	12.61	12.66	13.15	13.18	\$13.30	411.09	410.18	431.32	429.67	\$429.59
Constant (1982) dollars .....	7.72	7.74	7.93	7.95	(2)	251.74	250.87	260.14	259.15	(2)

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

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	December 1997	November 1998	December 1998P	December 1997	November 1998	December 1998P	December 1997	November 1998	December 1998P
<b>Alabama</b> .....	42.9	42.4	42.8	\$12.12	\$12.34	\$12.56	\$519.95	\$523.22	\$537.57
Birmingham .....	44.1	42.1	43.5	12.84	12.70	12.86	566.24	534.67	559.41
Mobile .....	44.4	45.9	47.2	14.21	13.58	13.57	630.92	623.32	640.50
<b>Alaska</b> .....	41.9	38.2	36.6	14.76	13.74	13.92	618.44	524.87	509.47
<b>Arizona</b> .....	42.1	39.7	39.9	11.74	12.33	12.43	494.25	489.50	495.96
<b>Arkansas</b> .....	42.8	41.9	43.5	11.04	11.18	11.29	472.51	468.44	491.12
Fayetteville-Springdale-Rogers .....	42.7	42.5	44.2	10.72	10.77	10.95	457.74	457.73	483.99
Fort Smith .....	44.2	43.4	45.6	11.18	11.31	11.40	494.16	490.85	519.84
Little Rock-North Little Rock .....	42.2	41.7	42.3	11.84	11.85	11.83	499.65	494.15	500.41
Pine Bluff .....	41.8	40.2	40.7	12.71	13.34	13.27	531.28	536.27	540.09
<b>California</b> .....	42.9	42.0	42.5	13.47	13.75	13.80	577.86	577.50	586.50
Bakersfield .....	40.8	41.5	41.7	13.84	13.99	13.94	564.67	580.59	581.30
Fresno .....	41.2	40.7	40.9	12.01	12.11	12.17	494.81	492.88	497.75
Los Angeles-Long Beach .....	43.3	42.6	43.2	12.62	12.81	12.88	546.45	545.71	556.42
Modesto .....	42.3	41.7	42.3	13.54	13.74	13.69	572.74	572.96	579.09
Oakland .....	42.5	41.9	42.1	15.70	15.76	15.76	667.25	660.34	663.50
Orange County .....	44.6	43.8	44.3	12.91	13.17	13.20	575.79	576.85	584.76
Riverside-San Bernardino .....	42.6	42.2	42.7	11.87	12.20	12.28	505.66	514.84	524.36
Sacramento .....	41.0	40.9	41.0	14.43	14.80	14.80	591.63	605.32	606.80
Salinas .....	37.8	39.5	38.6	13.85	14.20	14.12	523.53	560.90	545.03
San Diego .....	40.7	40.7	40.2	13.44	13.88	13.91	547.01	564.92	559.18
San Francisco .....	40.9	41.2	41.1	14.57	14.73	14.84	595.91	606.88	609.92
San Jose .....	43.5	42.9	42.9	16.56	16.84	16.87	720.36	722.44	723.72
Santa Barbara-Santa Maria-Lompoc .....	42.4	41.5	41.9	13.88	14.25	14.38	588.51	591.38	602.52
Santa Rosa .....	40.5	39.9	40.0	14.72	15.45	15.52	596.16	616.46	620.80
Stockton-Lodi .....	43.7	42.0	41.9	13.34	13.63	13.59	582.96	572.46	569.42
Vallejo-Fairfield-Napa .....	42.9	43.4	42.1	15.25	15.66	15.77	654.23	679.64	663.92
Ventura .....	43.0	42.8	42.6	12.47	12.54	12.56	536.21	536.71	535.06
<b>Colorado</b> .....	41.9	41.6	41.4	13.47	13.99	14.13	564.39	581.98	584.98
Denver .....	41.0	43.4	42.0	13.04	13.07	13.25	534.64	567.24	556.50
<b>Connecticut</b> .....	43.4	43.4	43.5	14.74	14.95	15.20	639.72	648.83	661.20
Bridgeport .....	43.9	42.2	42.5	15.31	15.28	15.58	672.11	644.82	662.15
Danbury .....	44.1	42.7	41.5	14.91	15.15	15.02	657.53	646.91	623.33
Hartford .....	44.7	43.9	44.8	15.85	15.65	16.02	708.50	687.04	717.70
New Haven-Meriden .....	42.6	42.6	43.0	14.86	14.94	15.00	633.04	636.44	645.00
New London-Norwich .....	42.7	43.1	43.3	15.10	15.66	15.62	644.77	674.95	676.35
Stamford-Norwalk .....	40.2	39.1	39.9	13.86	13.60	13.88	557.17	531.76	553.81
Waterbury .....	44.1	44.1	44.4	13.50	14.18	14.19	595.35	625.34	630.04
<b>Delaware</b> .....	43.4	43.1	44.0	15.02	15.49	15.36	651.87	667.62	675.84
Dover .....	41.4	39.8	39.9	13.47	13.79	13.86	557.66	548.84	553.01
Wilmington-Newark .....	44.6	45.4	45.8	18.35	18.53	18.41	818.41	841.26	843.18
<b>District of Columbia:</b>									
Washington PMSA .....	40.5	39.9	41.2	14.30	14.74	14.92	579.15	588.13	614.70
<b>Florida</b> .....	42.9	42.0	42.8	11.22	11.54	11.56	481.34	484.68	494.77
<b>Georgia</b> .....	43.7	41.8	42.6	11.94	12.15	12.23	521.78	507.87	521.00
Atlanta .....	44.2	41.2	42.7	12.99	12.84	12.92	574.16	529.01	551.68
Savannah .....	50.3	47.8	49.3	14.69	14.85	14.82	738.91	709.83	730.63
<b>Hawaii</b> <sup>1</sup> .....	38.7	39.9	40.7	13.36	12.87	13.03	517.03	513.51	530.32
Honolulu .....	40.3	40.5	41.0	13.23	12.90	13.11	533.17	522.45	537.51
<b>Idaho</b> .....	39.8	39.9	39.2	12.23	13.18	13.18	486.75	525.88	516.66
<b>Illinois</b> .....	42.5	42.2	42.2	13.59	13.87	13.91	577.58	585.31	587.00
Bloomington-Normal .....	39.6	39.4	39.5	17.56	17.68	18.08	695.38	696.59	714.16
Champaign-Urbana .....	41.6	41.1	41.0	11.18	11.61	11.45	465.09	477.17	469.45
Chicago .....	42.7	41.8	42.3	13.45	13.65	13.69	574.32	570.57	579.09
Davenport-Moline-Rock Island .....	42.8	43.1	43.0	15.60	15.60	15.65	667.68	672.36	672.95
Decatur .....	42.8	41.5	41.6	16.71	16.80	16.85	715.19	697.20	700.96
Kankakee .....	41.4	42.4	42.6	15.00	14.91	15.03	621.00	632.18	640.28
Peoria-Pekin .....	42.9	41.5	41.7	16.59	16.43	16.48	711.71	681.85	687.22
Rockford .....	43.3	44.0	44.8	15.21	15.64	15.69	658.59	688.16	702.91
Springfield .....	42.0	40.0	40.4	12.20	12.75	12.84	512.40	510.00	518.74

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Indiana</b> .....	44.5	42.5	43.4	\$15.12	\$15.01	\$15.00	\$672.84	\$637.93	\$651.00
Bloomington .....	40.8	40.7	40.7	12.07	12.01	12.10	492.46	488.81	492.47
Elkhart-Goshen .....	39.4	39.2	39.3	12.37	12.72	12.78	487.38	498.62	502.25
Evansville-Henderson .....	44.5	43.7	43.7	15.34	14.12	14.28	682.63	617.04	624.04
Fort Wayne .....	42.1	41.6	41.8	14.83	15.23	14.92	624.34	633.57	623.66
Gary .....	44.4	41.5	41.7	18.64	18.51	18.71	827.62	768.17	780.21
Indianapolis .....	44.0	43.4	43.4	15.70	15.34	15.35	690.80	665.76	666.19
Kokomo .....	53.0	51.4	52.3	21.32	21.46	20.97	1,129.96	1,103.04	1,096.73
Lafayette .....	44.9	43.2	44.0	15.87	15.89	15.86	712.56	686.45	697.84
Muncie .....	46.1	45.0	46.6	14.86	14.40	14.45	685.05	648.00	673.37
South Bend .....	41.9	41.7	42.0	12.57	12.65	12.66	526.68	527.51	531.72
Terre Haute .....	44.9	47.2	47.1	14.77	14.12	14.56	663.17	666.46	685.78
<b>Iowa</b> .....	43.7	42.0	42.5	13.90	13.97	13.98	607.43	586.74	594.15
Cedar Rapids .....	43.2	41.9	41.1	17.56	17.83	18.44	758.59	747.08	757.88
Des Moines .....	45.2	42.7	41.2	13.96	14.07	14.10	630.99	600.79	580.92
Dubuque .....	42.6	40.1	40.3	15.18	15.69	15.66	646.67	629.17	631.10
Sioux City .....	40.3	40.0	43.0	11.63	12.19	11.54	468.69	487.60	496.22
<b>Kansas</b> .....	43.3	41.4	41.6	13.76	14.09	14.34	595.81	583.33	596.54
Topeka .....	43.3	43.4	43.3	15.33	16.83	16.51	663.79	730.42	714.88
Wichita .....	44.4	42.9	43.1	16.22	16.22	16.65	720.17	695.84	717.62
<b>Kentucky</b> .....	42.7	41.3	41.2	13.61	13.73	13.75	581.15	567.05	566.50
Lexington .....	44.2	41.9	41.8	14.08	13.96	14.07	622.34	584.92	588.13
Louisville .....	43.0	42.1	42.2	15.31	15.07	15.14	658.33	634.45	638.91
<b>Louisiana</b> .....	45.0	44.8	45.1	14.45	14.68	14.69	650.25	657.66	662.52
Baton Rouge .....	44.3	44.1	43.3	16.60	16.90	16.21	735.38	745.29	701.89
New Orleans .....	43.7	44.2	43.6	14.42	14.69	14.67	630.15	649.30	639.61
Shreveport-Bossier City .....	43.0	42.3	42.0	13.88	14.25	14.16	596.84	602.78	594.72
<b>Maine</b> .....	41.5	41.0	40.5	13.26	13.29	13.56	550.29	544.89	549.18
Lewiston-Auburn .....	42.4	42.7	42.6	11.49	11.87	12.03	487.18	506.85	512.48
Portland .....	38.8	44.2	43.8	11.44	11.33	11.38	443.87	500.79	498.44
<b>Maryland</b> .....	42.8	42.0	41.7	14.21	14.24	14.33	608.19	598.08	597.56
Baltimore PMSA .....	43.1	41.7	43.4	14.74	15.03	15.28	635.29	626.75	663.15
<b>Massachusetts</b> .....	43.0	42.4	42.6	13.68	13.83	13.86	588.24	586.39	590.44
Boston .....	42.5	41.5	41.8	14.79	15.05	15.13	628.58	624.58	632.43
Springfield .....	43.8	43.0	42.5	13.15	13.70	13.69	575.97	589.10	581.83
Worcester .....	44.1	42.7	42.1	13.82	14.05	14.05	609.46	599.94	591.51
<b>Michigan</b> .....	45.8	43.4	45.0	17.69	18.46	18.46	810.20	801.16	830.70
Ann Arbor .....	48.5	46.1	45.2	19.36	19.99	19.39	938.96	921.54	876.43
Detroit .....	47.1	43.5	45.0	19.38	20.27	20.38	912.80	881.75	917.10
Flint .....	45.2	43.3	48.0	24.07	27.50	26.31	1,087.96	1,190.75	1,262.88
Grand Rapids-Muskegon-Holland .....	43.5	41.7	43.3	14.50	15.19	15.49	630.75	633.42	670.72
Jackson .....	44.7	41.0	42.1	13.06	12.84	13.15	583.78	526.44	553.62
Kalamazoo-Battle Creek .....	46.4	43.2	44.3	15.59	15.69	15.78	723.38	677.81	699.05
Lansing East Lansing .....	42.7	43.5	44.3	19.23	19.54	20.06	821.12	849.99	888.66
Saginaw-Bay City-Midland .....	46.7	46.8	47.7	21.30	22.60	22.20	994.71	1,057.68	1,058.94
<b>Minnesota</b> .....	42.3	41.5	41.8	13.82	13.84	14.05	584.59	574.36	587.29
Duluth-Superior .....	42.8	41.1	40.2	12.51	12.50	12.70	535.43	513.75	510.54
Minneapolis-St. Paul .....	42.6	42.3	41.5	14.68	14.85	15.09	625.37	628.16	626.24
St. Cloud .....	44.8	44.4	44.3	13.02	13.54	13.44	583.30	601.18	595.39
<b>Mississippi</b> .....	43.0	41.6	42.1	10.56	10.79	10.88	454.08	448.86	458.05
Jackson .....	41.5	41.5	39.3	12.19	12.18	12.56	505.89	505.47	493.61
<b>Missouri</b> .....	43.7	41.3	42.9	13.40	13.59	13.55	585.58	561.27	581.30
Kansas City .....	45.8	43.3	43.4	14.53	14.37	14.47	665.47	622.22	628.00
St. Louis .....	45.3	42.0	43.2	15.80	16.08	15.87	715.74	675.36	685.58
Springfield .....	41.4	41.8	41.9	11.19	11.48	11.62	463.27	479.86	486.88
<b>Montana</b> .....	41.7	38.0	39.9	13.45	13.70	13.82	560.87	520.60	551.42
<b>Nebraska</b> .....	42.1	42.8	43.8	12.34	12.25	12.38	519.51	524.30	542.24
Lincoln .....	46.2	43.5	44.6	13.90	14.14	15.19	642.18	615.09	677.47
Omaha .....	42.7	45.8	43.5	13.55	13.64	13.53	578.59	624.71	588.56
<b>Nevada</b> .....	42.4	43.2	41.5	14.00	14.35	14.15	593.60	619.92	587.23
Las Vegas .....	40.4	40.8	36.8	15.21	16.30	16.25	614.48	665.04	598.00

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>New Hampshire</b> .....	43.6	41.5	42.3	\$12.80	\$12.87	\$12.87	\$558.08	\$534.11	\$544.40
Manchester .....	44.0	42.3	43.7	14.11	13.46	13.38	620.84	569.36	584.71
Nashua .....	43.2	42.2	42.8	14.90	15.13	14.64	643.68	638.49	626.59
Portsmouth-Rochester .....	43.0	39.2	40.2	12.15	12.26	12.41	522.45	480.59	498.88
<b>New Jersey</b> .....	43.0	42.3	43.0	14.54	14.59	14.81	625.22	617.16	636.83
<b>New Mexico</b> .....	38.8	39.0	39.2	12.46	12.54	12.49	483.45	489.06	489.61
Albuquerque .....	38.3	38.7	39.5	14.77	14.06	13.94	565.69	544.12	550.63
<b>New York</b> .....	42.2	41.5	41.7	13.46	13.71	13.88	568.01	568.97	578.80
Albany-Schenectady-Troy .....	42.5	43.1	43.2	14.81	14.60	14.72	629.43	629.26	635.90
Binghamton .....	43.5	41.3	41.5	10.27	10.83	10.95	446.75	447.28	454.43
Buffalo-Niagara Falls .....	44.8	42.8	43.6	17.22	16.99	17.21	771.46	727.17	750.36
Dutchess County .....	40.8	40.6	41.2	12.08	11.97	12.06	492.86	485.98	496.87
Elmira .....	43.1	42.4	41.8	12.50	12.76	12.83	538.75	541.02	536.29
Nassau-Suffolk .....	40.8	41.0	41.3	12.37	12.51	12.82	504.70	512.91	529.47
New York PMSA .....	39.6	39.3	39.2	12.45	12.43	12.63	493.02	488.50	495.10
New York City .....	39.4	39.0	38.8	12.21	12.19	12.40	481.07	475.41	481.12
Newburgh .....	41.1	40.4	40.4	11.34	11.23	11.24	466.07	453.69	454.10
Rochester .....	44.2	43.4	43.8	14.89	15.35	15.31	658.14	666.19	670.58
Rockland County .....	42.9	43.2	44.4	16.18	15.82	16.04	694.12	683.42	712.18
Syracuse .....	42.9	42.7	42.3	14.35	14.64	14.69	615.62	625.13	621.39
Utica-Rome .....	41.2	40.1	40.6	11.63	12.21	12.19	479.16	489.62	494.91
Westchester County .....	40.1	40.1	40.6	12.81	13.03	12.96	513.68	522.50	526.18
<b>North Carolina</b> .....	42.0	41.4	41.5	11.65	11.97	11.99	489.30	495.56	497.59
Asheville .....	43.5	41.4	41.5	11.32	11.42	11.56	492.42	472.79	479.74
Charlotte-Gastonia-Rock Hill .....	41.8	41.1	41.5	12.49	12.99	13.07	522.08	533.89	542.41
Greensboro-Winston-Salem-High Point .....	41.6	40.6	41.1	12.04	12.23	12.22	500.86	496.54	502.24
Raleigh-Durham-Chapel Hill .....	42.2	42.7	42.7	12.73	13.09	13.21	537.21	558.94	564.07
<b>North Dakota</b> .....	40.9	38.3	39.9	11.57	11.44	11.40	473.21	438.15	454.86
Fargo-Moorhead .....	39.7	40.0	39.9	11.46	11.18	11.04	454.96	447.20	440.50
<b>Ohio</b> .....	44.8	43.4	44.1	15.82	16.08	16.26	708.74	697.87	717.07
Akron .....	44.3	43.2	43.1	12.91	13.29	13.30	571.91	574.13	573.23
Canton-Massillon .....	43.0	40.6	41.1	13.89	13.91	13.94	597.27	564.75	572.83
Cincinnati .....	45.2	44.1	44.5	15.07	15.44	15.40	681.16	680.90	685.30
Cleveland-Lorain-Elyria .....	45.1	43.2	43.7	15.34	15.69	15.78	691.83	677.81	689.59
Columbus .....	43.3	42.5	42.5	14.80	15.05	15.25	640.84	639.63	648.13
Dayton-Springfield .....	45.6	44.0	45.0	16.99	17.51	17.45	774.74	770.44	785.25
Hamilton-Middletown .....	46.3	46.1	47.0	17.14	17.56	17.44	793.58	809.52	819.68
Lima .....	44.5	43.2	43.8	16.36	16.71	16.85	728.02	721.87	738.03
Mansfield .....	44.7	43.1	43.2	16.50	16.93	16.83	737.55	729.68	727.06
Steubenville-Weirton .....	42.8	41.3	41.1	16.78	17.78	17.85	718.18	734.31	733.64
Toledo .....	46.5	43.3	43.9	17.08	17.40	17.60	794.22	753.42	772.64
Youngstown-Warren .....	43.3	42.9	42.4	18.21	18.16	18.15	788.49	779.06	769.56
<b>Oklahoma</b> .....	43.5	41.2	42.0	12.71	12.80	12.74	552.89	527.36	535.08
Oklahoma City .....	44.3	42.2	43.3	14.16	14.17	13.81	627.29	597.97	597.97
Tulsa .....	44.1	42.1	43.6	13.18	13.37	13.32	581.24	562.88	580.75
<b>Oregon</b> .....	41.1	41.4	41.4	13.72	14.44	14.42	563.89	597.82	596.99
Eugene-Springfield .....	40.3	41.5	42.5	13.10	13.66	13.80	527.93	566.89	586.50
Medford-Ashland .....	39.1	40.3	39.5	12.60	13.11	12.81	492.66	528.33	506.00
Portland-Vancouver .....	42.0	41.3	41.0	13.88	14.78	14.92	582.96	610.41	611.72
Salem .....	39.2	40.7	41.9	11.95	12.38	12.31	468.44	503.87	515.79
<b>Pennsylvania</b> .....	42.8	42.4	42.5	13.98	14.16	14.18	598.34	600.38	602.65
Allentown-Bethlem-Easton .....	42.6	43.0	43.2	14.17	14.75	14.74	603.64	634.25	636.77
Altoona .....	40.2	40.5	39.6	11.82	12.41	12.37	475.16	502.61	489.85
Erie .....	45.1	44.1	43.7	14.02	14.03	13.95	632.30	618.72	609.62
Harrisburg-Lebanon-Carlisle .....	39.9	40.2	41.0	13.18	14.07	13.92	525.88	565.61	570.72
Johnstown .....	39.1	40.4	40.7	10.22	10.57	10.54	399.60	427.03	428.98
Lancaster .....	41.7	41.0	40.7	12.94	13.04	12.92	539.60	534.64	525.84
Philadelphia PMSA .....	42.3	41.7	42.3	15.29	15.46	15.58	646.77	644.68	659.03
Pittsburgh .....	43.6	43.0	43.6	14.93	15.18	15.26	650.95	652.74	665.34
Reading .....	43.1	42.8	43.3	15.26	15.22	15.10	657.71	651.42	653.83
Scranton-Wilkes-Barre-Hazleton .....	41.6	40.9	41.4	12.53	12.93	12.88	521.25	528.84	533.23
Sharon .....	43.7	44.6	43.9	14.98	15.28	15.42	654.63	681.49	676.94
State College .....	44.3	42.6	40.5	11.68	12.52	12.52	517.42	533.35	507.06
Williamsport .....	42.3	41.2	42.2	11.08	11.58	11.58	468.68	477.10	488.68
York .....	43.8	44.8	43.7	14.21	14.93	14.62	622.40	668.86	638.89

See footnotes at end of table.



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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>	December 1997	November 1998	December 1998 <sup>P</sup>
<b>Rhode Island</b> .....	42.0	40.5	41.1	\$11.56	\$11.75	\$11.77	\$485.52	\$475.88	\$483.75
Providence-Fall River-Warwick .....	42.6	40.9	41.2	11.62	12.04	12.03	495.01	492.44	495.64
<b>South Carolina</b> .....	42.7	42.7	42.7	10.41	10.57	10.57	444.51	451.34	451.34
<b>South Dakota</b> .....	42.2	42.5	42.5	9.99	10.41	10.43	421.58	442.43	443.28
Rapid City .....	41.2	40.6	40.2	9.96	10.57	10.45	410.35	429.14	420.09
Sioux Falls .....	42.8	43.6	45.9	10.48	10.85	10.93	448.54	473.06	501.69
<b>Tennessee</b> .....	42.5	41.0	41.7	12.05	12.11	12.22	512.13	496.51	509.57
Chattanooga .....	43.0	42.2	43.5	11.02	11.34	11.41	473.86	478.55	496.34
Johnson City-Kingsport-Bristol .....	39.4	38.9	39.4	12.83	13.06	13.16	505.50	508.03	518.50
Knoxville .....	41.8	42.0	43.3	11.84	11.90	11.83	494.91	499.80	512.24
Memphis .....	41.1	39.8	40.7	12.46	13.23	13.29	512.11	526.55	540.90
Nashville .....	42.9	41.7	41.9	13.04	13.03	13.16	559.42	543.35	551.40
<b>Texas</b> .....	44.6	43.4	43.5	12.10	12.21	12.23	539.66	529.91	532.01
Dallas .....	44.4	42.7	42.2	12.34	12.35	12.36	547.90	527.35	521.59
Ft. Worth-Arlington .....	44.8	43.9	43.6	13.03	13.00	13.03	583.74	570.70	568.11
Houston .....	46.8	44.5	44.4	14.09	14.46	14.57	659.41	643.47	646.91
San Antonio .....	43.1	41.4	42.1	9.77	9.77	9.78	421.09	404.48	411.74
<b>Utah</b> .....	40.8	41.0	42.7	13.12	13.23	13.59	535.30	542.43	580.29
Salt Lake City-Ogden .....	40.2	40.9	42.5	12.96	13.01	13.42	520.99	532.11	570.35
<b>Vermont</b> .....	42.1	40.0	40.3	13.07	13.34	13.42	550.25	533.60	540.83
Burlington .....	44.5	43.7	45.9	13.53	14.91	14.18	602.09	651.57	650.86
<b>Virginia</b> .....	43.6	42.8	43.2	12.89	13.06	13.18	562.00	558.97	569.38
Bristol .....	44.3	42.9	44.8	10.71	10.75	10.67	474.45	461.18	478.02
Charlottesville .....	40.9	44.9	43.4	10.25	10.65	10.82	419.23	478.19	469.59
Danville .....	44.2	41.3	42.3	12.68	12.84	12.83	560.46	530.29	542.71
Lynchburg .....	45.2	48.1	41.4	12.69	13.03	13.03	573.59	626.74	539.44
Norfolk-Virginia Beach-Newport News .....	44.7	41.0	42.5	14.98	14.74	14.67	669.61	604.34	623.48
Northern Virginia .....	42.6	41.9	42.0	12.97	13.51	13.52	552.52	566.07	567.84
Richmond-Petersburg .....	44.7	42.3	43.2	16.50	16.25	17.05	737.55	687.38	736.56
Roanoke .....	42.6	42.4	42.2	15.03	14.38	14.51	640.28	609.71	612.32
<b>Washington</b> .....	41.4	41.5	41.7	15.58	15.96	16.21	645.01	662.34	675.96
<b>West Virginia</b> .....	42.3	42.3	41.5	13.47	14.09	13.68	569.78	596.01	567.72
Charleston .....	47.5	48.5	48.1	14.81	16.64	15.42	703.48	807.04	741.70
Huntington-Ashland .....	44.1	44.9	43.6	14.69	16.23	15.96	647.83	728.73	695.86
Parkersburg-Marietta .....	44.9	42.6	43.8	17.41	17.48	17.33	781.71	744.65	759.05
Wheeling .....	43.4	41.7	43.7	16.71	17.23	17.25	725.21	718.49	753.83
<b>Wisconsin</b> .....	43.2	42.6	42.8	13.99	14.26	14.30	604.37	607.48	612.04
Appleton-Oshkosh-Neenah .....	45.0	44.4	44.7	15.12	15.62	15.85	680.40	693.53	708.50
Eau Claire .....	41.2	42.6	42.5	12.64	12.76	12.62	520.77	543.58	536.35
Green Bay .....	41.3	42.3	43.0	14.71	15.74	15.70	607.52	665.80	675.10
Janesville-Beloit .....	44.9	45.5	43.7	17.69	18.59	18.87	794.28	845.85	824.62
Kenosha .....	42.3	39.2	40.5	16.11	16.70	15.64	681.45	654.84	633.42
La Crosse .....	45.6	43.2	42.8	11.83	12.46	12.26	539.45	538.27	524.73
Madison .....	41.6	41.0	40.3	12.82	13.13	13.09	533.31	538.33	527.53
Milwaukee-Waukesha .....	43.0	42.1	43.1	15.22	15.33	15.29	654.46	645.39	659.00
Racine .....	46.6	42.7	42.5	14.65	14.40	14.53	682.69	614.88	617.53
Sheboygan .....	43.0	44.6	44.0	13.08	14.11	14.15	562.44	629.31	622.60
Wausau .....	43.1	42.9	42.7	13.27	13.72	13.74	571.94	588.59	586.70
<b>Wyoming</b> .....	40.4	41.4	40.4	14.88	14.93	14.93	601.15	618.10	603.17
<b>Puerto Rico</b> .....	40.3	41.6	41.5	8.40	8.79	8.77	338.52	365.66	363.96
<b>Virgin Islands</b> .....	43.6	42.1	39.4	18.29	18.80	18.66	797.44	791.48	735.20

<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 1997 benchmarks.

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

**C-1. Labor force status by census region and division, seasonally adjusted<sup>1</sup>**

(Numbers in thousands)

Census region and division	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.P
<b>NORTHEAST</b>													
Civilian labor force .....	26,078.5	26,077.0	26,097.5	26,105.9	26,045.2	26,062.1	26,044.0	26,044.0	26,028.2	26,057.1	26,056.5	26,086.2	26,067.3
Employed .....	24,758.5	24,799.0	24,806.3	24,797.5	24,826.0	24,832.4	24,848.1	24,851.0	24,860.5	24,853.6	24,854.1	24,896.5	24,908.4
Unemployed .....	1,320.0	1,278.0	1,291.1	1,308.4	1,219.2	1,229.7	1,196.0	1,192.9	1,167.7	1,203.5	1,202.4	1,189.8	1,158.9
Unemployment rate .....	5.1	4.9	4.9	5.0	4.7	4.7	4.6	4.6	4.5	4.6	4.6	4.6	4.4
<b>New England</b>													
Civilian labor force .....	7,132.8	7,130.7	7,123.0	7,139.0	7,103.1	7,125.0	7,106.9	7,103.2	7,101.8	7,119.4	7,142.5	7,153.6	7,146.4
Employed .....	6,840.1	6,861.1	6,864.6	6,862.8	6,860.0	6,860.7	6,854.4	6,863.4	6,868.9	6,865.7	6,882.6	6,908.0	6,918.2
Unemployed .....	292.7	269.7	258.4	276.2	243.1	264.3	252.4	239.8	232.9	253.7	259.9	245.6	228.2
Unemployment rate .....	4.1	3.8	3.6	3.9	3.4	3.7	3.6	3.4	3.3	3.6	3.6	3.4	3.2
<b>Middle Atlantic</b>													
Civilian labor force .....	18,945.7	18,946.3	18,974.5	18,966.9	18,942.1	18,937.2	18,937.2	18,940.8	18,926.4	18,937.8	18,914.0	18,932.7	18,920.8
Employed .....	17,918.4	17,937.9	17,941.7	17,934.7	17,966.0	17,971.7	17,993.6	17,987.6	17,991.6	17,987.9	17,971.5	17,988.5	17,990.1
Unemployed .....	1,027.3	1,008.3	1,032.7	1,032.2	976.1	965.5	943.5	953.1	934.8	949.9	942.5	944.2	930.7
Unemployment rate .....	5.4	5.3	5.4	5.4	5.2	5.1	5.0	5.0	4.9	5.0	5.0	5.0	4.9
<b>SOUTH</b>													
Civilian labor force .....	47,694.8	47,816.2	47,818.3	47,879.6	47,935.3	47,977.2	47,985.4	48,070.4	48,129.5	48,247.0	48,330.6	48,282.0	48,378.6
Employed .....	45,523.3	45,689.9	45,752.0	45,761.0	45,865.9	45,924.5	45,916.9	45,983.1	46,001.2	46,139.8	46,222.7	46,216.1	46,337.0
Unemployed .....	2,171.5	2,126.3	2,066.4	2,118.6	2,069.5	2,052.7	2,068.5	2,087.3	2,128.4	2,107.2	2,107.9	2,065.9	2,041.6
Unemployment rate .....	4.6	4.4	4.3	4.4	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.3	4.2
<b>South Atlantic</b>													
Civilian labor force .....	24,677.1	24,738.2	24,765.7	24,763.1	24,800.5	24,788.8	24,783.2	24,836.0	24,863.9	24,918.9	24,978.6	24,996.4	25,013.5
Employed .....	23,630.4	23,695.5	23,724.7	23,720.6	23,786.9	23,785.3	23,784.1	23,831.0	23,842.1	23,939.4	23,970.2	23,994.2	24,061.5
Unemployed .....	1,046.7	1,042.6	1,041.0	1,042.5	1,013.6	1,003.4	999.0	1,005.1	1,021.8	979.5	1,008.4	1,002.2	952.0
Unemployment rate .....	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.0	4.1	3.9	4.0	4.0	3.8
<b>East South Central</b>													
Civilian labor force .....	8,145.8	8,144.8	8,136.3	8,167.0	8,148.8	8,146.5	8,127.4	8,135.7	8,150.9	8,162.3	8,178.4	8,164.7	8,197.7
Employed .....	7,748.2	7,775.6	7,785.3	7,784.1	7,791.0	7,791.4	7,794.2	7,806.2	7,805.5	7,809.0	7,823.9	7,819.0	7,843.8
Unemployed .....	397.5	369.1	351.0	382.8	357.7	355.0	333.2	329.6	345.4	353.3	354.6	345.6	353.8
Unemployment rate .....	4.9	4.5	4.3	4.7	4.4	4.4	4.1	4.1	4.2	4.3	4.3	4.2	4.3
<b>West South Central</b>													
Civilian labor force .....	14,871.9	14,933.3	14,916.3	14,949.5	14,986.1	15,041.9	15,074.9	15,098.6	15,114.7	15,165.8	15,173.5	15,121.0	15,167.5
Employed .....	14,144.7	14,218.8	14,241.9	14,256.2	14,288.0	14,347.7	14,338.6	14,345.9	14,353.5	14,391.4	14,428.6	14,402.9	14,431.7
Unemployed .....	727.2	714.5	674.4	693.3	698.1	694.2	736.3	752.7	761.2	774.4	744.9	718.1	735.8
Unemployment rate .....	4.9	4.8	4.5	4.6	4.7	4.6	4.9	5.0	5.0	5.1	4.9	4.7	4.9

See footnotes at end of table.

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

**C-1. Labor force status by census region and division, seasonally adjusted<sup>1</sup> — Continued**

(Numbers in thousands)

Census region and division	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.P
<b>MIDWEST</b>													
Civilian labor force .....	33,246.3	33,363.0	33,376.7	33,383.1	33,299.7	33,302.6	33,302.1	33,332.3	33,300.0	33,372.4	33,419.8	33,429.6	33,432.6
Employed .....	31,959.7	32,117.0	32,147.6	32,126.5	32,167.9	32,129.1	32,090.8	32,077.3	32,122.4	32,163.9	32,222.4	32,223.5	32,259.6
Unemployed .....	1,286.6	1,246.0	1,229.1	1,256.6	1,131.8	1,173.4	1,211.3	1,255.0	1,177.6	1,208.5	1,197.4	1,206.1	1,173.1
Unemployment rate .....	3.9	3.7	3.7	3.8	3.4	3.5	3.6	3.8	3.5	3.6	3.6	3.6	3.5
<b>East North Central</b>													
Civilian labor force .....	23,027.2	23,113.2	23,114.8	23,134.0	23,025.2	23,014.4	23,031.4	23,060.8	23,028.3	23,082.2	23,144.1	23,147.5	23,157.1
Employed .....	22,068.0	22,182.4	22,197.5	22,209.7	22,214.2	22,170.8	22,135.9	22,120.1	22,156.4	22,177.7	22,250.6	22,250.4	22,281.1
Unemployed .....	959.3	930.8	917.3	924.3	811.1	843.6	895.4	940.7	872.0	904.5	893.5	897.1	876.0
Unemployment rate .....	4.2	4.0	4.0	4.0	3.5	3.7	3.9	4.1	3.8	3.9	3.9	3.9	3.8
<b>West North Central</b>													
Civilian labor force .....	10,219.1	10,249.8	10,262.0	10,249.1	10,274.4	10,288.1	10,270.8	10,271.5	10,271.7	10,290.2	10,275.7	10,282.1	10,275.5
Employed .....	9,891.7	9,934.6	9,950.1	9,916.8	9,953.7	9,958.4	9,954.9	9,957.1	9,966.0	9,986.2	9,971.7	9,973.1	9,978.4
Unemployed .....	327.4	315.2	311.8	332.3	320.7	329.8	315.9	314.4	305.6	304.0	303.9	309.0	297.1
Unemployment rate .....	3.2	3.1	3.0	3.2	3.1	3.2	3.1	3.1	3.0	3.0	3.0	3.0	2.9
<b>WEST</b>													
Civilian labor force .....	30,425.5	30,478.9	30,513.8	30,617.8	30,604.4	30,693.6	30,674.8	30,772.6	30,786.6	30,935.6	30,953.1	30,964.7	30,959.6
Employed .....	28,819.0	28,893.5	28,944.5	29,004.2	29,000.4	29,091.3	29,072.9	29,192.7	29,172.0	29,261.3	29,315.2	29,357.4	29,345.7
Unemployed .....	1,606.5	1,585.4	1,569.3	1,613.7	1,604.0	1,602.3	1,601.9	1,579.9	1,614.7	1,674.3	1,637.9	1,607.3	1,613.9
Unemployment rate .....	5.3	5.2	5.1	5.3	5.2	5.2	5.2	5.1	5.2	5.4	5.3	5.2	5.2
<b>Mountain</b>													
Civilian labor force .....	8,599.7	8,633.8	8,672.2	8,685.1	8,711.3	8,714.1	8,717.9	8,747.2	8,770.9	8,809.9	8,830.8	8,837.2	8,855.4
Employed .....	8,250.1	8,298.2	8,323.7	8,317.0	8,336.5	8,351.7	8,350.0	8,386.7	8,404.8	8,437.5	8,468.9	8,476.6	8,495.5
Unemployed .....	349.7	335.6	348.5	368.1	374.8	362.3	367.9	360.5	366.2	372.5	361.9	360.6	359.9
Unemployment rate .....	4.1	3.9	4.0	4.2	4.3	4.2	4.2	4.1	4.2	4.2	4.1	4.1	4.1
<b>Pacific</b>													
Civilian labor force .....	21,825.8	21,845.1	21,841.6	21,932.8	21,893.1	21,979.6	21,956.9	22,025.4	22,015.7	22,125.7	22,122.3	22,127.5	22,104.2
Employed .....	20,569.0	20,595.3	20,620.8	20,687.2	20,663.9	20,739.6	20,722.9	20,806.0	20,767.2	20,823.8	20,846.3	20,880.8	20,850.3
Unemployed .....	1,256.8	1,249.8	1,220.8	1,245.6	1,229.2	1,240.0	1,234.0	1,219.4	1,248.5	1,301.9	1,276.0	1,246.7	1,254.0
Unemployment rate .....	5.8	5.7	5.6	5.7	5.6	5.6	5.6	5.5	5.7	5.9	5.8	5.6	5.7

P = preliminary.

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

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

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

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.P
<b>Alabama</b>													
Civilian labor force .....	2,154.1	2,146.3	2,141.6	2,149.9	2,137.4	2,144.7	2,142.5	2,146.1	2,145.6	2,152.1	2,158.6	2,153.2	2,159.0
Employed .....	2,055.0	2,057.3	2,059.8	2,060.0	2,058.8	2,057.9	2,060.7	2,067.8	2,065.5	2,061.6	2,064.4	2,062.0	2,072.0
Unemployed .....	99.1	89.1	81.8	89.9	78.7	86.7	81.8	78.3	80.1	90.5	94.2	91.2	87.1
Unemployment rate .....	4.6	4.1	3.8	4.2	3.7	4.0	3.8	3.7	3.7	4.2	4.4	4.2	4.0
<b>Alaska</b>													
Civilian labor force .....	318.5	317.6	318.0	317.4	316.3	318.5	319.6	317.8	318.9	318.9	321.0	317.7	317.2
Employed .....	295.9	297.8	297.9	298.5	298.3	299.6	299.3	298.0	300.1	300.1	301.5	301.1	299.6
Unemployed .....	22.6	19.8	20.1	19.0	18.1	18.9	20.3	19.8	18.9	18.8	19.5	16.6	17.6
Unemployment rate .....	7.1	6.2	6.3	6.0	5.7	5.9	6.4	6.2	5.9	5.9	6.1	5.2	5.5
<b>Arizona</b>													
Civilian labor force .....	2,237.7	2,243.0	2,252.4	2,263.3	2,269.5	2,262.2	2,254.4	2,268.3	2,284.6	2,297.7	2,282.4	2,291.9	2,310.1
Employed .....	2,144.7	2,159.2	2,163.0	2,164.4	2,169.8	2,169.8	2,164.1	2,181.9	2,189.9	2,201.7	2,201.4	2,201.3	2,216.2
Unemployed .....	93.0	83.8	89.3	99.0	99.6	92.5	90.3	86.4	94.8	96.1	80.9	90.6	93.9
Unemployment rate .....	4.2	3.7	4.0	4.4	4.4	4.1	4.0	3.8	4.1	4.2	3.5	4.0	4.1
<b>Arkansas</b>													
Civilian labor force .....	1,240.6	1,245.8	1,243.9	1,248.9	1,249.5	1,247.1	1,243.1	1,241.1	1,240.7	1,241.8	1,248.4	1,247.9	1,251.1
Employed .....	1,178.5	1,180.2	1,178.5	1,178.8	1,184.4	1,182.3	1,182.9	1,183.1	1,184.3	1,179.7	1,180.6	1,181.7	1,185.2
Unemployed .....	62.1	65.6	65.4	70.1	65.1	64.8	60.2	58.0	56.3	62.2	67.8	66.2	65.9
Unemployment rate .....	5.0	5.3	5.3	5.6	5.2	5.2	4.8	4.7	4.5	5.0	5.4	5.3	5.3
<b>California</b>													
Civilian labor force .....	16,122.8	16,114.0	16,147.0	16,218.2	16,215.1	16,247.1	16,262.2	16,321.6	16,310.3	16,351.0	16,310.5	16,326.6	16,297.3
Employed .....	15,151.8	15,145.7	15,189.0	15,238.2	15,251.1	15,286.6	15,319.7	15,395.2	15,358.1	15,363.9	15,341.6	15,380.7	15,341.6
Unemployed .....	971.0	968.3	958.0	980.0	964.0	960.4	942.5	926.4	952.2	987.1	968.9	945.9	955.6
Unemployment rate .....	6.0	6.0	5.9	6.0	5.9	5.9	5.8	5.7	5.8	6.0	5.9	5.8	5.9
<b>Colorado</b>													
Civilian labor force .....	2,199.7	2,216.2	2,232.9	2,231.4	2,240.5	2,245.3	2,246.9	2,250.8	2,252.6	2,263.4	2,279.3	2,270.3	2,269.8
Employed .....	2,132.8	2,153.1	2,165.7	2,161.5	2,165.1	2,173.9	2,170.4	2,175.6	2,178.0	2,182.8	2,194.9	2,192.7	2,193.8
Unemployed .....	66.9	63.1	67.2	69.9	75.3	71.4	76.5	75.1	74.6	80.6	84.4	77.6	76.0
Unemployment rate .....	3.0	2.8	3.0	3.1	3.4	3.2	3.4	3.3	3.3	3.6	3.7	3.4	3.3
<b>Connecticut</b>													
Civilian labor force .....	1,728.2	1,720.0	1,716.8	1,722.4	1,714.9	1,721.1	1,718.0	1,709.3	1,715.8	1,722.3	1,720.7	1,725.9	1,714.9
Employed .....	1,650.7	1,654.7	1,651.8	1,653.0	1,647.7	1,655.8	1,652.7	1,650.3	1,656.0	1,655.5	1,655.7	1,660.4	1,662.5
Unemployed .....	77.5	65.3	65.0	69.4	67.1	65.3	65.3	59.0	59.8	66.9	65.0	65.5	52.4
Unemployment rate .....	4.5	3.8	3.8	4.0	3.9	3.8	3.8	3.5	3.5	3.9	3.8	3.8	3.1
<b>Delaware</b>													
Civilian labor force .....	387.0	387.9	388.7	393.2	393.2	393.9	394.4	395.5	393.2	394.0	397.6	397.3	397.1
Employed .....	374.0	374.6	375.0	379.6	378.3	377.7	378.5	379.3	379.1	380.6	383.5	382.9	384.8
Unemployed .....	13.0	13.3	13.6	13.6	14.9	16.2	15.9	16.1	14.1	13.4	14.1	14.5	12.3
Unemployment rate .....	3.4	3.4	3.5	3.5	3.8	4.1	4.0	4.1	3.6	3.4	3.6	3.6	3.1
<b>District of Columbia</b>													
Civilian labor force .....	255.7	258.5	260.6	260.6	268.4	267.1	265.3	261.5	264.3	261.0	260.6	259.2	258.2
Employed .....	234.9	236.7	237.0	236.3	244.6	245.3	243.6	239.8	241.0	237.9	237.1	236.7	238.5
Unemployed .....	20.8	21.8	23.6	24.2	23.8	21.8	21.7	21.7	23.3	23.2	23.5	22.5	19.7
Unemployment rate .....	8.1	8.4	9.1	9.3	8.9	8.2	8.2	8.3	8.8	8.9	9.0	8.7	7.6
<b>Florida</b>													
Civilian labor force .....	7,253.6	7,265.1	7,258.3	7,269.7	7,302.6	7,299.6	7,316.7	7,327.3	7,340.2	7,345.5	7,359.0	7,354.3	7,350.9
Employed .....	6,916.0	6,927.2	6,922.1	6,923.3	6,959.8	6,970.9	6,985.5	7,010.9	7,020.5	7,038.4	7,036.7	7,032.6	7,045.2
Unemployed .....	337.7	337.8	336.1	346.4	342.9	328.7	331.1	316.3	319.6	307.1	322.3	321.6	305.7
Unemployment rate .....	4.7	4.7	4.6	4.8	4.7	4.5	4.5	4.3	4.4	4.2	4.4	4.4	4.2

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
<b>Georgia</b>													
Civilian labor force .....	3,918.0	3,928.7	3,950.0	3,931.6	3,960.4	3,951.7	3,963.4	3,967.1	3,972.7	4,003.6	4,001.6	4,023.0	4,026.8
Employed .....	3,759.1	3,771.7	3,786.3	3,772.5	3,802.7	3,791.2	3,801.1	3,807.0	3,811.0	3,848.2	3,846.1	3,860.9	3,870.8
Unemployed .....	158.9	157.0	163.6	159.1	157.7	160.5	162.2	160.1	161.7	155.4	155.4	162.0	156.0
Unemployment rate .....	4.1	4.0	4.1	4.0	4.0	4.1	4.1	4.0	4.1	3.9	3.9	4.0	3.9
<b>Hawaii</b>													
Civilian labor force .....	593.1	593.4	592.8	592.9	592.3	593.4	592.4	596.2	596.9	600.8	599.0	595.8	601.0
Employed .....	557.7	560.4	558.7	558.6	561.0	559.0	556.9	561.4	563.1	564.2	564.0	560.7	564.2
Unemployed .....	35.4	33.0	34.1	34.4	31.3	34.5	35.5	34.8	33.8	36.6	35.0	35.2	36.8
Unemployment rate .....	6.0	5.6	5.7	5.8	5.3	5.8	6.0	5.8	5.7	6.1	5.8	5.9	6.1
<b>Idaho</b>													
Civilian labor force .....	641.0	640.1	641.7	644.8	646.7	647.2	645.1	646.9	653.4	663.2	662.7	663.7	663.8
Employed .....	607.4	608.1	609.5	611.2	613.5	616.4	612.8	615.5	621.4	630.2	629.4	632.0	630.5
Unemployed .....	33.6	32.0	32.2	33.5	33.2	30.9	32.3	31.4	32.0	33.0	33.3	31.7	33.2
Unemployment rate .....	5.2	5.0	5.0	5.2	5.1	4.8	5.0	4.9	4.9	5.0	5.0	4.8	5.0
<b>Illinois</b>													
Civilian labor force .....	6,162.1	6,190.5	6,186.3	6,189.1	6,142.1	6,131.4	6,156.8	6,177.7	6,137.4	6,163.5	6,186.4	6,169.3	6,181.3
Employed .....	5,867.0	5,887.8	5,902.8	5,909.1	5,886.2	5,889.7	5,878.7	5,902.1	5,877.9	5,885.0	5,916.1	5,891.6	5,924.2
Unemployed .....	295.1	302.7	283.6	280.0	255.9	241.8	278.1	275.7	259.5	278.6	270.2	277.7	257.1
Unemployment rate .....	4.8	4.9	4.6	4.5	4.2	3.9	4.5	4.5	4.2	4.5	4.4	4.5	4.2
<b>Indiana</b>													
Civilian labor force .....	3,113.0	3,115.4	3,111.1	3,133.9	3,117.3	3,092.6	3,081.6	3,079.9	3,089.9	3,095.0	3,104.7	3,123.6	3,136.3
Employed .....	3,003.9	3,013.6	3,010.6	3,027.0	3,030.1	3,003.7	2,993.9	3,000.3	3,006.2	2,999.1	3,018.8	3,030.6	3,042.2
Unemployed .....	109.1	101.8	100.5	106.9	87.2	88.9	87.7	79.5	83.8	95.9	85.9	93.1	94.1
Unemployment rate .....	3.5	3.3	3.2	3.4	2.8	2.9	2.8	2.6	2.7	3.1	2.8	3.0	3.0
<b>Iowa</b>													
Civilian labor force .....	1,581.7	1,589.9	1,594.3	1,588.6	1,582.9	1,581.9	1,574.5	1,566.7	1,571.0	1,581.1	1,567.2	1,568.6	1,575.0
Employed .....	1,535.7	1,545.4	1,552.9	1,547.1	1,544.7	1,545.3	1,534.7	1,527.0	1,531.0	1,539.3	1,525.8	1,528.6	1,532.8
Unemployed .....	46.0	44.5	41.4	41.5	38.2	36.7	39.8	39.7	40.0	41.8	41.4	39.9	42.1
Unemployment rate .....	2.9	2.8	2.6	2.6	2.4	2.3	2.5	2.5	2.5	2.6	2.6	2.5	2.7
<b>Kansas</b>													
Civilian labor force .....	1,404.4	1,407.7	1,409.7	1,409.8	1,414.6	1,418.9	1,413.2	1,419.3	1,422.5	1,424.7	1,429.4	1,428.9	1,424.3
Employed .....	1,351.6	1,358.9	1,362.0	1,360.3	1,366.9	1,368.6	1,363.2	1,366.5	1,371.7	1,371.8	1,377.5	1,376.5	1,373.4
Unemployed .....	52.7	48.8	47.7	49.5	47.7	50.3	50.0	52.8	50.9	52.9	52.0	52.5	50.9
Unemployment rate .....	3.8	3.5	3.4	3.5	3.4	3.5	3.5	3.7	3.6	3.7	3.6	3.7	3.6
<b>Kentucky</b>													
Civilian labor force .....	1,937.2	1,931.3	1,936.3	1,945.8	1,938.9	1,938.9	1,944.6	1,936.9	1,950.9	1,943.5	1,946.1	1,946.0	1,952.5
Employed .....	1,844.9	1,842.9	1,856.5	1,858.9	1,861.0	1,857.3	1,858.7	1,855.4	1,864.5	1,863.5	1,863.2	1,863.8	1,873.5
Unemployed .....	92.3	88.4	79.9	86.9	77.8	81.6	85.8	81.5	86.3	80.0	83.0	82.2	79.0
Unemployment rate .....	4.8	4.6	4.1	4.5	4.0	4.2	4.4	4.2	4.4	4.1	4.3	4.2	4.0
<b>Louisiana</b>													
Civilian labor force .....	2,043.8	2,067.6	2,038.0	2,033.2	2,054.4	2,080.2	2,083.7	2,073.4	2,083.5	2,073.4	2,069.9	2,059.2	2,070.7
Employed .....	1,926.5	1,962.3	1,949.8	1,937.4	1,940.7	1,970.5	1,975.0	1,950.8	1,956.6	1,946.2	1,966.7	1,949.4	1,960.6
Unemployed .....	117.3	105.3	88.2	95.8	113.8	109.7	108.7	122.6	126.9	127.2	103.3	109.8	110.1
Unemployment rate .....	5.7	5.1	4.3	4.7	5.5	5.3	5.2	5.9	6.1	6.1	5.0	5.3	5.3
<b>Maine</b>													
Civilian labor force .....	661.1	660.9	657.9	655.0	653.3	654.1	650.6	652.2	654.1	649.6	661.0	666.4	662.8
Employed .....	626.3	627.7	627.6	626.6	627.1	629.0	624.4	622.1	625.3	621.5	631.2	637.8	637.2
Unemployed .....	34.9	33.1	30.3	28.4	26.2	25.1	26.1	30.2	28.8	28.1	29.7	28.6	25.6
Unemployment rate .....	5.3	5.0	4.6	4.3	4.0	3.8	4.0	4.6	4.4	4.3	4.5	4.3	3.9

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
<b>Maryland</b>													
Civilian labor force .....	2,790.8	2,803.7	2,802.1	2,796.9	2,793.0	2,783.7	2,776.5	2,789.0	2,788.3	2,779.1	2,793.2	2,795.9	2,807.7
Employed .....	2,657.1	2,668.8	2,667.2	2,666.5	2,668.0	2,657.0	2,652.8	2,656.3	2,654.3	2,659.1	2,677.9	2,676.1	2,700.0
Unemployed .....	133.7	134.9	134.9	130.4	125.0	126.7	123.7	132.7	134.0	119.9	115.3	119.8	107.7
Unemployment rate .....	4.8	4.8	4.8	4.7	4.5	4.6	4.5	4.8	4.8	4.3	4.1	4.3	3.8
<b>Massachusetts</b>													
Civilian labor force .....	3,254.5	3,258.8	3,258.3	3,268.4	3,244.7	3,263.7	3,255.7	3,255.0	3,251.6	3,265.2	3,273.4	3,269.2	3,276.2
Employed .....	3,130.3	3,141.8	3,149.4	3,146.5	3,148.8	3,144.1	3,144.5	3,153.7	3,154.8	3,157.3	3,163.7	3,172.9	3,174.9
Unemployed .....	124.3	116.9	108.9	121.9	95.8	119.6	111.2	101.3	96.7	107.9	109.8	96.3	101.3
Unemployment rate .....	3.8	3.6	3.3	3.7	3.0	3.7	3.4	3.1	3.0	3.3	3.4	2.9	3.1
<b>Michigan</b>													
Civilian labor force .....	5,013.0	5,047.2	5,051.1	5,047.6	5,033.7	5,038.8	5,033.4	5,016.7	5,032.8	5,055.4	5,079.3	5,084.3	5,085.0
Employed .....	4,815.7	4,849.4	4,846.1	4,848.8	4,857.2	4,850.9	4,852.3	4,807.0	4,852.1	4,871.7	4,892.8	4,901.7	4,890.7
Unemployed .....	197.3	197.7	205.0	198.8	176.6	187.9	181.2	209.7	180.7	183.7	186.5	182.6	194.3
Unemployment rate .....	3.9	3.9	4.1	3.9	3.5	3.7	3.6	4.2	3.6	3.6	3.7	3.6	3.8
<b>Minnesota</b>													
Civilian labor force .....	2,670.8	2,672.5	2,675.4	2,684.1	2,693.6	2,698.3	2,699.5	2,698.3	2,693.5	2,698.6	2,691.1	2,701.2	2,704.7
Employed .....	2,593.5	2,600.0	2,606.3	2,607.0	2,624.2	2,623.8	2,630.0	2,636.5	2,636.5	2,634.4	2,632.0	2,634.9	2,638.4
Unemployed .....	77.3	72.6	69.1	77.1	69.4	74.5	69.5	61.9	57.0	64.3	59.1	66.3	66.4
Unemployment rate .....	2.9	2.7	2.6	2.9	2.6	2.8	2.6	2.3	2.1	2.4	2.2	2.5	2.5
<b>Mississippi</b>													
Civilian labor force .....	1,279.3	1,284.8	1,281.5	1,289.9	1,282.4	1,283.5	1,273.6	1,280.3	1,279.1	1,284.6	1,286.3	1,283.0	1,290.8
Employed .....	1,213.7	1,214.9	1,212.4	1,214.5	1,214.1	1,217.4	1,215.0	1,217.5	1,214.4	1,216.4	1,221.6	1,219.8	1,221.8
Unemployed .....	65.6	69.8	69.1	75.4	68.3	66.0	58.7	62.9	64.7	68.2	64.7	63.3	69.0
Unemployment rate .....	5.1	5.4	5.4	5.8	5.3	5.1	4.6	4.9	5.1	5.3	5.0	4.9	5.3
<b>Missouri</b>													
Civilian labor force .....	2,895.0	2,911.3	2,911.7	2,894.8	2,911.4	2,915.7	2,908.5	2,906.6	2,907.7	2,909.7	2,908.1	2,900.5	2,887.4
Employed .....	2,779.2	2,796.3	2,793.0	2,770.2	2,781.9	2,783.9	2,786.0	2,785.5	2,788.6	2,802.3	2,797.2	2,792.6	2,792.5
Unemployed .....	115.7	115.0	118.7	124.7	129.6	131.8	122.5	121.2	119.1	107.4	110.9	107.9	94.9
Unemployment rate .....	4.0	4.0	4.1	4.3	4.4	4.5	4.2	4.2	4.1	3.7	3.8	3.7	3.3
<b>Montana</b>													
Civilian labor force .....	460.6	462.2	462.5	461.8	462.6	464.4	464.4	464.9	463.8	464.3	466.1	469.1	471.3
Employed .....	435.9	437.1	438.2	436.8	437.2	438.5	439.5	441.1	440.6	440.2	440.6	442.5	445.5
Unemployed .....	24.7	25.1	24.3	25.0	25.4	25.8	24.9	23.7	23.2	24.0	25.6	26.6	25.8
Unemployment rate .....	5.4	5.4	5.3	5.4	5.5	5.6	5.4	5.1	5.0	5.2	5.5	5.7	5.5
<b>Nebraska</b>													
Civilian labor force .....	923.6	924.2	926.2	926.8	928.7	927.2	927.2	932.3	931.6	930.0	931.0	933.7	935.8
Employed .....	905.9	907.6	908.4	906.3	910.5	908.8	911.6	912.3	910.3	910.7	909.9	910.9	912.2
Unemployed .....	17.7	16.6	17.9	20.5	18.2	18.4	15.6	20.0	21.3	19.3	21.1	22.8	23.6
Unemployment rate .....	1.9	1.8	1.9	2.2	2.0	2.0	1.7	2.1	2.3	2.1	2.3	2.4	2.5
<b>Nevada</b>													
Civilian labor force .....	900.6	905.7	911.4	909.6	914.5	915.8	920.6	924.9	926.6	931.4	942.7	948.1	939.5
Employed .....	864.8	866.7	869.7	867.2	870.4	872.9	880.4	885.7	887.4	896.1	907.4	913.0	910.5
Unemployed .....	35.8	39.0	41.8	42.4	44.1	42.9	40.2	39.3	39.2	35.3	35.3	35.1	29.0
Unemployment rate .....	4.0	4.3	4.6	4.7	4.8	4.7	4.4	4.2	4.2	3.8	3.7	3.7	3.1
<b>New Hampshire</b>													
Civilian labor force .....	651.2	653.3	652.7	652.0	653.5	655.2	653.8	653.3	647.8	648.7	654.4	657.7	657.5
Employed .....	632.1	635.4	634.6	632.7	634.9	635.5	636.0	638.0	634.1	633.0	635.8	637.2	638.5
Unemployed .....	19.1	17.9	18.1	19.3	18.6	19.6	17.8	15.4	13.7	15.7	18.7	20.5	19.0
Unemployment rate .....	2.9	2.7	2.8	3.0	2.8	3.0	2.7	2.4	2.1	2.4	2.9	3.1	2.9

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.P
<b>New Jersey</b>													
Civilian labor force .....	4,178.1	4,181.8	4,185.9	4,192.5	4,188.9	4,185.0	4,193.9	4,187.6	4,184.2	4,190.0	4,183.0	4,178.6	4,187.0
Employed .....	3,971.6	3,977.1	3,975.3	3,978.5	3,974.9	3,975.7	3,991.8	3,983.9	3,982.1	3,993.1	3,992.3	3,990.9	4,003.0
Unemployed .....	206.6	204.7	210.6	214.0	214.1	209.3	202.1	203.7	202.1	196.9	190.6	187.7	184.0
Unemployment rate .....	4.9	4.9	5.0	5.1	5.1	5.0	4.8	4.9	4.8	4.7	4.6	4.5	4.4
<b>New Mexico</b>													
Civilian labor force .....	835.5	836.1	837.7	841.7	842.7	842.7	846.9	847.6	846.7	847.5	849.1	847.4	849.1
Employed .....	782.2	784.9	785.1	787.7	790.7	788.1	790.2	793.8	792.2	792.3	794.1	793.2	794.7
Unemployed .....	53.3	51.2	52.5	54.0	52.1	54.5	56.7	53.8	54.5	55.2	55.0	54.1	54.4
Unemployment rate .....	6.4	6.1	6.3	6.4	6.2	6.5	6.7	6.3	6.4	6.5	6.5	6.4	6.4
<b>New York</b>													
Civilian labor force .....	8,775.9	8,786.7	8,810.2	8,795.3	8,773.0	8,788.3	8,781.1	8,769.1	8,769.7	8,794.5	8,795.6	8,816.3	8,808.0
Employed .....	8,241.8	8,259.4	8,267.9	8,261.8	8,267.5	8,287.8	8,301.5	8,289.5	8,302.4	8,310.6	8,321.5	8,335.5	8,324.7
Unemployed .....	534.0	527.2	542.3	533.5	505.4	500.5	479.7	479.6	467.3	483.8	474.1	480.8	483.3
Unemployment rate .....	6.1	6.0	6.2	6.1	5.8	5.7	5.5	5.5	5.3	5.5	5.4	5.5	5.5
<b>North Carolina</b>													
Civilian labor force .....	3,828.0	3,842.0	3,847.8	3,846.9	3,823.1	3,807.1	3,776.3	3,792.0	3,803.9	3,819.9	3,827.2	3,822.1	3,827.8
Employed .....	3,688.2	3,703.7	3,706.5	3,698.0	3,683.1	3,680.8	3,661.0	3,668.1	3,668.1	3,685.9	3,689.4	3,695.0	3,709.2
Unemployed .....	139.8	138.4	141.3	148.8	140.1	126.3	115.3	123.9	135.9	133.9	137.9	127.1	118.6
Unemployment rate .....	3.7	3.6	3.7	3.9	3.7	3.3	3.1	3.3	3.6	3.5	3.6	3.3	3.1
<b>North Dakota</b>													
Civilian labor force .....	346.1	346.2	346.0	346.4	344.9	346.4	347.3	347.0	346.8	346.7	346.5	345.0	344.4
Employed .....	339.1	339.8	339.4	338.0	338.2	339.1	339.5	339.5	338.5	338.0	337.5	336.3	335.7
Unemployed .....	7.0	6.4	6.6	8.4	6.7	7.3	7.8	7.5	8.3	8.7	9.0	8.7	8.7
Unemployment rate .....	2.0	1.8	1.9	2.4	1.9	2.1	2.2	2.2	2.4	2.5	2.6	2.5	2.5
<b>Ohio</b>													
Civilian labor force .....	5,786.2	5,796.7	5,803.6	5,805.8	5,784.3	5,802.3	5,805.1	5,816.0	5,803.3	5,804.7	5,805.7	5,802.2	5,790.1
Employed .....	5,531.5	5,561.9	5,562.7	5,558.4	5,562.3	5,555.7	5,544.0	5,541.3	5,551.7	5,554.4	5,557.1	5,563.2	5,564.4
Unemployed .....	254.6	234.7	240.9	247.5	222.0	246.7	261.1	274.7	251.5	250.3	248.6	239.1	225.7
Unemployment rate .....	4.4	4.0	4.2	4.3	3.8	4.3	4.5	4.7	4.3	4.3	4.3	4.1	3.9
<b>Oklahoma</b>													
Civilian labor force .....	1,607.5	1,608.2	1,612.4	1,616.2	1,611.6	1,614.2	1,614.8	1,622.5	1,620.8	1,635.3	1,638.3	1,639.7	1,645.8
Employed .....	1,550.2	1,555.4	1,555.6	1,558.7	1,551.0	1,554.8	1,550.0	1,550.9	1,551.7	1,564.3	1,567.7	1,570.5	1,572.4
Unemployed .....	57.3	52.7	56.9	57.5	60.5	59.5	64.8	71.5	69.1	71.1	70.6	69.2	73.4
Unemployment rate .....	3.6	3.3	3.5	3.6	3.8	3.7	4.0	4.4	4.3	4.3	4.3	4.2	4.5
<b>Oregon</b>													
Civilian labor force .....	1,775.4	1,807.9	1,774.4	1,778.5	1,769.2	1,775.0	1,755.1	1,765.8	1,766.9	1,789.1	1,804.8	1,805.1	1,795.0
Employed .....	1,681.2	1,713.8	1,690.5	1,691.3	1,679.3	1,682.7	1,660.2	1,669.9	1,665.9	1,687.4	1,701.6	1,702.4	1,696.7
Unemployed .....	94.2	94.1	83.9	87.2	89.9	92.2	94.9	95.9	101.0	101.7	103.2	102.6	98.4
Unemployment rate .....	5.3	5.2	4.7	4.9	5.1	5.2	5.4	5.4	5.7	5.7	5.7	5.7	5.5
<b>Pennsylvania</b>													
Civilian labor force .....	5,991.7	5,977.8	5,978.3	5,979.1	5,980.2	5,963.8	5,962.1	5,984.1	5,972.5	5,953.3	5,935.5	5,937.8	5,925.9
Employed .....	5,705.0	5,701.4	5,698.5	5,694.3	5,723.6	5,708.3	5,700.4	5,714.2	5,707.1	5,684.2	5,657.7	5,662.1	5,662.5
Unemployed .....	286.7	276.4	279.8	284.8	256.6	255.6	261.7	269.9	265.4	269.1	277.8	275.7	263.4
Unemployment rate .....	4.8	4.6	4.7	4.8	4.3	4.3	4.4	4.5	4.4	4.5	4.7	4.6	4.4
<b>Rhode Island</b>													
Civilian labor force .....	507.5	508.6	506.5	509.5	506.6	501.8	498.4	500.1	499.6	502.6	502.2	502.8	502.4
Employed .....	482.9	484.1	481.9	483.7	481.9	478.4	477.9	477.8	475.5	478.0	476.0	477.8	482.2
Unemployed .....	24.6	24.5	24.6	25.8	24.7	23.4	20.5	22.2	24.0	24.6	26.2	25.0	20.2
Unemployment rate .....	4.9	4.8	4.9	5.1	4.9	4.7	4.1	4.4	4.8	4.9	5.2	5.0	4.0

See footnotes at end of table.

STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED

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

(Numbers in thousands)

State	1997	1998											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>P</sup>
<b>South Carolina</b>													
Civilian labor force .....	1,902.9	1,908.4	1,910.4	1,902.6	1,913.3	1,919.4	1,929.2	1,941.5	1,930.3	1,932.6	1,949.8	1,959.5	1,951.2
Employed .....	1,832.9	1,834.5	1,844.5	1,856.3	1,856.8	1,854.3	1,867.3	1,868.0	1,863.5	1,869.2	1,875.6	1,883.4	1,875.5
Unemployed .....	70.0	73.8	65.8	46.2	56.6	65.0	61.9	73.4	66.9	63.3	74.2	76.1	75.8
Unemployment rate .....	3.7	3.9	3.4	2.4	3.0	3.4	3.2	3.8	3.5	3.3	3.8	3.9	3.9
<b>South Dakota</b>													
Civilian labor force .....	397.5	398.0	398.7	398.6	398.4	399.8	400.6	401.2	398.5	399.4	402.3	404.1	403.9
Employed .....	386.7	386.7	388.2	387.8	387.4	388.9	390.0	389.9	389.5	389.8	391.9	393.3	393.4
Unemployed .....	10.8	11.3	10.5	10.8	11.0	10.9	10.7	11.3	9.0	9.7	10.4	10.8	10.4
Unemployment rate .....	2.7	2.8	2.6	2.7	2.8	2.7	2.7	2.8	2.3	2.4	2.6	2.7	2.6
<b>Tennessee</b>													
Civilian labor force .....	2,775.2	2,782.4	2,776.9	2,781.4	2,790.0	2,779.4	2,766.6	2,772.3	2,775.4	2,782.1	2,787.4	2,782.4	2,795.4
Employed .....	2,634.7	2,660.5	2,656.6	2,650.8	2,657.2	2,658.8	2,659.7	2,665.5	2,661.1	2,667.4	2,674.7	2,673.4	2,676.5
Unemployed .....	140.6	121.9	120.3	130.7	132.9	120.7	106.9	106.9	114.2	114.7	112.7	109.0	118.8
Unemployment rate .....	5.1	4.4	4.3	4.7	4.8	4.3	3.9	3.9	4.1	4.1	4.0	3.9	4.3
<b>Texas</b>													
Civilian labor force .....	9,979.9	10,011.7	10,022.0	10,051.2	10,070.5	10,100.4	10,133.4	10,161.7	10,169.7	10,215.3	10,216.9	10,174.2	10,200.0
Employed .....	9,489.4	9,520.9	9,558.1	9,581.3	9,611.9	9,640.1	9,630.8	9,661.1	9,660.9	9,701.3	9,713.7	9,701.3	9,713.5
Unemployed .....	490.5	490.9	463.9	469.9	458.7	460.3	502.6	500.6	508.9	514.0	503.2	472.8	486.4
Unemployment rate .....	4.9	4.9	4.6	4.7	4.6	4.6	5.0	4.9	5.0	5.0	4.9	4.6	4.8
<b>Utah</b>													
Civilian labor force .....	1,069.7	1,076.5	1,079.5	1,077.5	1,080.1	1,080.2	1,081.4	1,085.1	1,084.6	1,084.5	1,090.4	1,088.7	1,094.2
Employed .....	1,038.8	1,045.6	1,048.4	1,043.9	1,045.5	1,047.2	1,046.6	1,046.1	1,048.7	1,048.2	1,055.3	1,056.2	1,058.2
Unemployed .....	30.9	30.9	31.1	33.6	34.6	33.0	34.8	39.0	35.9	36.3	35.1	32.5	36.1
Unemployment rate .....	2.9	2.9	2.9	3.1	3.2	3.1	3.2	3.6	3.3	3.3	3.2	3.0	3.3
<b>Vermont</b>													
Civilian labor force .....	330.3	329.2	330.8	331.8	330.2	329.1	330.4	333.3	332.9	330.9	330.8	331.6	332.7
Employed .....	318.0	317.2	319.3	320.4	319.6	317.9	318.9	321.5	323.2	320.5	320.3	321.9	322.9
Unemployed .....	12.3	12.0	11.5	11.4	10.6	11.2	11.5	11.8	9.8	10.4	10.5	9.7	9.7
Unemployment rate .....	3.7	3.6	3.5	3.4	3.2	3.4	3.5	3.5	2.9	3.2	3.2	2.9	2.9
<b>Virginia</b>													
Civilian labor force .....	3,538.4	3,541.0	3,547.6	3,554.8	3,540.2	3,555.0	3,554.9	3,554.6	3,567.5	3,580.5	3,579.1	3,577.5	3,587.7
Employed .....	3,417.2	3,424.7	3,431.8	3,436.2	3,440.8	3,448.8	3,443.8	3,449.1	3,456.0	3,468.7	3,466.8	3,470.0	3,479.7
Unemployed .....	121.2	116.4	115.8	118.6	99.4	106.2	111.2	105.5	111.5	111.8	112.3	107.5	108.0
Unemployment rate .....	3.4	3.3	3.3	3.3	2.8	3.0	3.1	3.0	3.1	3.1	3.1	3.0	3.0
<b>Washington</b>													
Civilian labor force .....	3,016.0	3,012.2	3,009.4	3,025.7	3,000.0	3,045.6	3,027.6	3,024.0	3,022.7	3,065.9	3,087.0	3,082.3	3,093.7
Employed .....	2,882.4	2,877.6	2,884.7	2,900.7	2,874.2	2,911.6	2,886.8	2,881.5	2,880.0	2,908.3	2,937.6	2,935.9	2,948.2
Unemployed .....	133.6	134.6	124.6	125.0	125.9	134.0	140.8	142.5	142.7	157.6	149.4	146.4	145.5
Unemployment rate .....	4.4	4.5	4.1	4.1	4.2	4.4	4.7	4.7	4.7	5.1	4.8	4.7	4.7
<b>West Virginia</b>													
Civilian labor force .....	802.7	802.9	800.4	807.0	806.2	811.3	806.4	807.6	803.5	802.8	810.4	807.5	806.1
Employed .....	751.0	753.7	754.2	752.0	752.9	759.3	750.5	752.3	748.7	751.4	757.0	756.4	757.8
Unemployed .....	51.6	49.2	46.2	55.1	53.4	52.0	55.9	55.3	54.8	51.5	53.4	51.1	48.2
Unemployment rate .....	6.4	6.1	5.8	6.8	6.6	6.4	6.9	6.8	6.8	6.4	6.6	6.3	6.0
<b>Wisconsin</b>													
Civilian labor force .....	2,953.0	2,963.4	2,962.7	2,957.6	2,947.9	2,949.3	2,954.5	2,970.5	2,964.9	2,963.6	2,968.0	2,968.0	2,964.4
Employed .....	2,849.8	2,869.6	2,875.3	2,866.5	2,878.4	2,870.9	2,867.2	2,869.4	2,868.4	2,867.5	2,865.7	2,863.3	2,859.6
Unemployed .....	103.2	93.8	87.3	91.1	69.4	78.4	87.3	101.1	96.4	96.1	102.3	104.7	104.7
Unemployment rate .....	3.5	3.2	2.9	3.1	2.4	2.7	3.0	3.4	3.3	3.2	3.4	3.5	3.5
<b>Wyoming</b>													
Civilian labor force .....	254.9	254.0	254.2	255.0	254.8	256.3	258.1	258.8	258.6	257.9	258.1	257.9	257.5
Employed .....	243.5	243.5	244.0	244.3	244.2	245.0	245.9	247.0	246.6	246.0	245.7	245.6	246.0
Unemployed .....	11.4	10.6	10.2	10.7	10.5	11.3	12.1	11.9	11.9	11.9	12.4	12.3	11.5
Unemployment rate .....	4.5	4.2	4.0	4.2	4.1	4.4	4.7	4.6	4.6	4.6	4.8	4.8	4.5

<sup>P</sup> = preliminary.

revised when new benchmark and population information becomes available.

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



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

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	November		December		November		December		November		December	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Alabama</b> .....	2,178.8	2,166.7	2,153.5	2,157.7	97.3	86.3	82.9	71.6	4.5	4.0	3.8	3.3
Anniston .....	55.3	54.5	54.1	53.7	3.1	2.5	2.4	1.8	5.5	4.6	4.5	3.3
Birmingham .....	474.6	479.8	470.8	479.0	14.5	12.9	11.7	10.5	3.0	2.7	2.5	2.2
Decatur .....	72.8	72.2	72.2	72.0	3.1	2.8	2.8	2.4	4.3	3.8	3.8	3.3
Dothan .....	67.9	67.0	67.6	67.3	2.8	2.2	2.3	1.8	4.1	3.3	3.4	2.7
Florence .....	72.3	72.2	71.4	71.5	4.3	4.4	3.8	3.4	6.0	6.1	5.4	4.8
Gadsden .....	51.1	51.8	50.2	51.5	2.2	2.8	1.9	2.3	4.4	5.5	3.8	4.5
Huntsville .....	172.6	171.9	171.2	172.3	4.6	4.6	4.0	4.2	2.7	2.7	2.3	2.4
Mobile .....	269.8	272.0	266.8	271.4	11.2	9.8	9.4	8.1	4.1	3.6	3.5	3.0
Montgomery .....	161.6	161.9	160.3	161.8	6.0	4.6	4.9	3.9	3.7	2.9	3.1	2.4
Tuscaloosa .....	85.6	86.8	84.0	86.3	2.4	2.1	2.0	1.6	2.8	2.4	2.3	1.9
<b>Alaska</b> .....	314.8	315.6	314.5	313.5	22.9	16.9	23.2	18.4	7.3	5.4	7.4	5.9
Anchorage .....	142.1	144.0	143.9	145.1	7.7	5.2	7.1	5.3	5.5	3.6	4.9	3.7
<b>Arizona</b> .....	2,224.9	2,304.7	2,236.8	2,311.4	88.5	83.6	83.8	84.2	4.0	3.6	3.7	3.6
Flagstaff .....	59.6	57.4	59.7	59.1	4.2	3.5	4.5	4.0	7.0	6.2	7.6	6.8
Phoenix-Mesa .....	1,469.3	1,536.1	1,482.4	1,542.3	38.8	39.7	37.3	40.7	2.6	2.6	2.5	2.6
Tucson .....	365.1	372.2	366.6	374.7	10.6	8.8	10.5	8.8	2.9	2.4	2.9	2.4
Yuma .....	64.5	65.4	60.9	62.2	15.8	14.3	12.0	12.5	24.4	21.8	19.7	20.0
<b>Arkansas</b> .....	1,226.1	1,245.1	1,229.8	1,241.7	54.3	57.9	61.9	65.0	4.4	4.6	5.0	5.2
Fayetteville-Springdale-Rogers .....	140.8	143.0	140.3	142.3	3.7	3.7	4.4	4.0	2.6	2.6	3.1	2.8
Fort Smith .....	96.0	96.9	95.7	96.2	4.8	4.5	4.7	4.8	5.0	4.6	4.9	5.0
Jonesboro .....	41.7	42.5	41.5	42.3	1.5	1.5	1.5	1.5	3.6	3.5	3.6	3.6
Little Rock-North Little Rock .....	299.1	302.3	299.5	301.3	10.2	9.7	10.8	10.3	3.4	3.2	3.6	3.4
Pine Bluff .....	35.9	36.7	36.2	37.2	2.3	2.6	2.5	3.1	6.4	7.1	7.0	8.5
<b>California</b> .....	16,092.0	16,333.5	16,053.7	16,223.6	943.9	914.1	899.6	878.4	5.9	5.6	5.6	5.4
Bakersfield .....	283.1	279.3	283.3	274.9	35.9	34.7	34.9	33.8	12.7	12.4	12.3	12.3
Chico-Paradise .....	87.5	87.6	85.6	86.5	6.7	5.7	6.5	6.2	7.6	6.6	7.6	7.1
Fresno .....	420.4	419.1	421.4	424.7	59.8	58.0	58.7	58.6	14.2	13.8	13.9	13.8
Los Angeles-Long Beach .....	4,521.8	4,678.9	4,557.5	4,591.5	283.5	299.7	272.5	278.4	6.3	6.4	6.0	6.1
Merced .....	84.0	82.2	83.3	81.7	13.0	11.6	13.5	12.4	15.5	14.1	16.2	15.2
Modesto .....	204.0	203.0	199.0	200.6	25.0	22.1	23.5	22.0	12.2	10.9	11.8	11.0
Oakland .....	1,189.4	1,199.6	1,183.6	1,196.6	44.3	41.3	39.6	38.0	3.7	3.4	3.3	3.2
Orange County .....	1,396.0	1,422.9	1,393.0	1,421.7	39.7	38.3	35.8	34.4	2.8	2.7	2.6	2.4
Redding .....	72.9	72.5	71.8	72.1	6.1	5.4	6.3	5.8	8.4	7.5	8.8	8.1
Riverside-San Bernardino .....	1,367.9	1,407.4	1,356.8	1,402.4	84.6	76.9	73.9	67.8	6.2	5.5	5.4	4.8
Sacramento .....	745.5	746.9	742.4	747.5	35.6	31.0	33.4	30.0	4.8	4.1	4.5	4.0
Salinas .....	186.3	184.9	185.2	186.8	19.1	17.1	27.5	27.0	10.2	9.3	14.9	14.5
San Diego .....	1,294.3	1,302.9	1,287.7	1,298.8	46.5	43.5	41.4	38.5	3.6	3.3	3.2	3.0
San Francisco .....	939.8	942.4	936.2	944.8	27.3	24.2	24.6	21.7	2.9	2.6	2.6	2.3
San Jose .....	952.5	957.0	951.1	955.1	24.4	32.1	22.4	28.7	2.6	3.4	2.4	3.0
San Luis Obispo-Atascadero-Paso Robles .....	109.8	109.8	107.6	109.5	4.9	4.0	4.6	3.9	4.5	3.7	4.3	3.6
Santa Barbara-Santa Maria-Lompoc .....	197.7	195.7	194.9	194.9	10.0	8.3	9.8	9.0	5.1	4.3	5.0	4.6
Santa Cruz-Watsonville .....	144.4	144.9	143.3	144.0	10.3	9.2	12.6	11.5	7.1	6.4	8.8	8.0
Santa Rosa .....	240.6	242.4	238.9	244.4	8.0	6.5	7.5	6.4	3.3	2.7	3.2	2.6
Stockton-Lodi .....	246.6	245.9	239.7	242.0	26.8	24.3	25.8	25.0	10.9	9.9	10.8	10.3
Vallejo-Fairfield-Napa .....	242.2	245.5	239.3	244.1	13.5	10.9	12.3	10.9	5.6	4.5	5.2	4.5
Ventura .....	385.4	389.4	382.7	390.2	26.3	22.9	22.2	20.1	6.8	5.9	5.8	5.2
Visalia-Tulare-Porterville .....	161.8	163.6	160.6	163.7	26.8	26.6	25.5	26.6	16.6	16.3	15.9	16.3
Yolo .....	87.1	87.4	86.4	86.9	5.2	4.2	5.5	4.8	5.9	4.8	6.4	5.5
Yuba City .....	56.4	56.8	55.0	55.8	8.2	7.4	8.1	8.0	14.6	13.1	14.8	14.4
<b>Colorado</b> .....	2,210.0	2,282.2	2,195.9	2,264.7	63.6	73.4	58.5	66.9	2.9	3.2	2.7	3.0
Boulder-Longmont .....	175.3	177.4	173.1	175.5	4.2	5.0	3.6	4.4	2.4	2.8	2.1	2.5
Colorado Springs .....	251.0	262.1	247.0	258.8	8.1	9.8	7.0	8.8	3.2	3.7	2.8	3.4
Denver .....	1,114.9	1,153.3	1,103.4	1,142.2	27.6	29.9	24.8	27.5	2.5	2.6	2.2	2.4
Fort Collins-Loveland .....	137.5	140.4	134.7	139.0	3.7	5.0	3.3	4.5	2.7	3.6	2.5	3.3
Grand Junction .....	57.6	59.4	57.1	59.4	2.3	2.3	2.2	2.5	3.9	3.9	3.8	4.2
Greeley .....	82.3	85.9	81.9	83.6	2.8	3.3	2.6	3.0	3.4	3.9	3.2	3.6
Pueblo .....	61.1	63.5	61.8	63.2	2.3	3.7	3.5	3.5	3.8	5.9	5.6	5.6
<b>Connecticut</b> .....	1,721.5	1,721.8	1,714.4	1,701.8	72.3	58.1	72.4	47.6	4.2	3.4	4.2	2.8
Bridgeport .....	218.9	217.6	217.5	214.7	11.0	9.1	10.8	7.4	5.0	4.2	4.9	3.5
Danbury .....	109.4	110.3	109.3	110.1	2.8	2.6	2.7	2.1	2.6	2.3	2.5	1.9
Hartford .....	584.1	582.9	582.5	577.2	25.5	19.9	26.2	16.5	4.4	3.4	4.5	2.9
New Haven-Meriden .....	271.8	271.1	269.3	265.8	11.3	9.4	11.2	7.6	4.2	3.5	4.2	2.8
New London-Norwich .....	154.1	154.1	153.4	151.9	7.7	5.7	7.5	4.5	5.0	3.7	4.9	3.0
Stamford-Norwalk .....	196.1	198.1	196.2	196.0	5.4	4.7	5.2	3.8	2.8	2.4	2.7	1.9
Waterbury .....	119.1	119.9	118.8	119.3	5.4	4.6	5.5	3.9	4.5	3.8	4.7	3.3
<b>Delaware</b> .....	386.6	400.2	387.7	398.1	11.5	13.1	11.5	10.6	3.0	3.3	3.0	2.7
Dover .....	68.7	72.2	69.3	72.2	2.2	2.3	2.3	1.9	3.2	3.2	3.3	2.6
Wilmington-Newark .....	291.4	296.5	292.4	295.9	9.9	9.5	9.6	7.7	3.4	3.2	3.3	2.6

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	November		December		November		December		November		December	
	1997	1998	1997	1998 <sup>P</sup>	1997	1998	1997	1998 <sup>P</sup>	1997	1998	1997	1998 <sup>P</sup>
<b>District of Columbia</b> .....	255.2	258.1	254.7	256.4	20.3	21.6	19.6	18.4	7.9	8.4	7.7	7.2
Washington .....	2,549.3	2,600.0	2,550.8	2,598.4	87.5	76.9	80.5	65.9	3.4	3.0	3.2	2.5
<b>Florida</b> .....	7,240.8	7,379.2	7,249.1	7,353.4	334.4	318.4	310.4	280.0	4.6	4.3	4.3	3.8
Daytona Beach .....	189.8	191.2	189.5	190.4	7.4	6.5	7.0	6.2	3.9	3.4	3.7	3.2
Fort Lauderdale .....	764.1	772.6	766.0	770.7	37.6	35.2	34.9	31.5	4.9	4.6	4.6	4.1
Fort Myers-Cape Coral .....	171.5	171.9	172.7	172.0	5.7	5.0	5.4	4.4	3.3	2.9	3.1	2.6
Fort Pierce-Port St. Lucie .....	122.3	124.2	122.2	123.4	10.5	10.7	9.2	8.9	8.6	8.6	7.5	7.2
Fort Walton Beach .....	77.6	79.6	77.3	79.3	3.0	2.6	2.9	2.6	3.9	3.2	3.8	3.3
Gainesville .....	104.0	104.6	103.3	104.1	2.7	2.4	2.5	2.1	2.6	2.3	2.5	2.1
Jacksonville .....	539.9	551.8	538.6	550.1	18.8	16.5	17.1	14.7	3.5	3.0	3.2	2.7
Lakeland-Winter Haven .....	198.1	199.5	198.9	198.3	11.2	10.2	10.0	8.1	5.7	5.1	5.0	4.1
Melbourne-Titusville-Palm Bay .....	205.1	207.5	204.3	205.8	9.1	9.7	8.5	8.5	4.5	4.7	4.2	4.1
Miami .....	1,055.4	1,061.3	1,048.8	1,048.7	73.9	71.4	68.4	63.7	7.0	6.7	6.5	6.1
Naples .....	88.7	91.9	90.1	92.7	4.0	3.8	3.5	2.9	4.5	4.1	3.9	3.1
Ocala .....	95.9	97.3	96.4	97.0	4.1	4.0	4.0	3.6	4.3	4.1	4.1	3.7
Orlando .....	830.1	854.9	833.6	854.0	27.5	25.6	25.6	22.4	3.3	3.0	3.1	2.6
Panama City .....	64.8	66.4	65.0	65.4	5.4	5.4	5.7	5.1	8.4	8.1	8.7	7.8
Pensacola .....	172.0	174.8	171.7	174.1	6.6	6.6	6.3	6.0	3.8	3.8	3.7	3.4
Punta Gorda .....	46.3	46.1	46.8	46.3	1.8	1.5	1.7	1.4	3.8	3.3	3.6	2.9
Sarasota-Bradenton .....	275.6	288.2	276.4	288.8	7.0	6.3	6.6	5.4	2.5	2.2	2.4	1.9
Tallahassee .....	144.0	145.6	143.0	144.1	4.4	4.6	4.1	3.8	3.0	3.2	2.9	2.7
Tampa-St. Petersburg-Clearwater .....	1,156.4	1,187.7	1,162.6	1,188.2	39.5	35.3	37.8	31.6	3.4	3.0	3.3	2.7
West Palm Beach-Boca Raton .....	494.4	507.3	496.3	507.3	28.7	28.4	25.8	24.0	5.8	5.6	5.2	4.7
<b>Georgia</b> .....	3,950.1	4,045.2	3,928.8	4,034.9	156.1	153.3	148.7	144.7	4.0	3.8	3.8	3.6
Albany .....	58.1	59.0	57.8	58.5	3.6	4.6	3.5	4.2	6.3	7.7	6.1	7.2
Athens .....	73.5	75.5	72.9	75.1	2.0	1.8	2.1	1.6	2.7	2.3	2.9	2.2
Atlanta .....	2,094.1	2,145.2	2,080.3	2,136.5	66.2	63.6	62.4	59.7	3.2	3.0	3.0	2.8
Augusta-Aiken .....	202.6	204.5	200.4	203.0	10.7	9.7	10.6	8.7	5.3	4.7	5.3	4.3
Columbus .....	123.3	125.1	122.3	124.6	5.9	5.5	5.5	5.1	4.8	4.4	4.5	4.1
Macon .....	153.2	156.5	152.1	155.0	6.5	7.4	6.4	6.8	4.2	4.7	4.2	4.4
Savannah .....	133.9	136.0	132.5	135.3	5.4	6.4	5.2	5.8	4.0	4.7	3.9	4.3
<b>Hawaii</b> .....	594.2	597.6	592.7	601.0	34.2	34.2	30.6	32.3	5.8	5.7	5.2	5.4
Honolulu .....	428.8	430.2	427.8	432.6	21.0	21.9	18.3	20.2	4.9	5.1	4.3	4.7
<b>Idaho</b> .....	637.6	663.6	637.7	660.5	29.8	29.7	34.7	34.3	4.7	4.5	5.4	5.2
Boise City .....	218.2	229.5	217.6	227.4	7.6	7.6	8.3	8.3	3.5	3.3	3.8	3.7
Pocatello .....	40.8	42.4	40.7	42.0	2.1	1.9	2.1	2.0	5.1	4.5	5.2	4.8
<b>Illinois</b> .....	6,169.3	6,182.4	6,164.0	6,184.2	268.0	255.5	288.1	254.1	4.3	4.1	4.7	4.1
Bloomington-Normal .....	82.7	84.5	83.2	85.0	1.9	1.6	2.3	1.6	2.3	1.9	2.7	1.9
Champaign-Urbana .....	94.9	94.8	94.2	94.9	2.4	2.2	2.5	2.3	2.5	2.3	2.7	2.4
Chicago .....	4,115.4	4,135.7	4,112.2	4,138.2	173.3	166.0	181.6	163.8	4.2	4.0	4.4	4.0
Davenport-Moline-Rock Island .....	186.0	186.1	185.3	185.8	5.5	6.0	6.0	6.5	3.0	3.2	3.2	3.5
Decatur .....	58.1	57.5	57.9	57.3	3.7	2.8	3.7	2.6	6.3	4.8	6.3	4.5
Kankakee .....	52.0	51.9	52.1	52.2	2.6	2.9	2.9	2.8	5.0	5.6	5.7	5.4
Peoria-Pekin .....	184.7	181.8	182.4	181.4	7.2	6.2	7.6	6.0	3.9	3.4	4.1	3.3
Rockford .....	195.1	191.9	195.6	193.1	7.2	7.9	8.3	9.0	3.7	4.1	4.2	4.7
Springfield .....	106.5	105.5	106.6	105.4	4.2	3.8	4.6	3.7	4.0	3.6	4.3	3.6
<b>Indiana</b> .....	3,115.5	3,125.5	3,093.5	3,117.3	100.4	85.5	104.3	90.9	3.2	2.7	3.4	2.9
Bloomington .....	64.0	62.2	63.4	61.8	1.3	1.3	1.4	1.4	2.0	2.1	2.2	2.2
Elkhart-Goshen .....	94.0	93.4	92.9	92.8	3.1	2.0	3.2	2.1	3.3	2.2	3.4	2.2
Evansville-Henderson .....	158.7	157.2	156.4	156.5	5.8	4.8	5.6	5.0	3.7	3.1	3.6	3.2
Fort Wayne .....	267.8	265.4	266.3	265.1	6.7	6.4	6.9	7.3	2.5	2.4	2.6	2.8
Gary .....	303.7	304.2	302.6	305.0	11.7	11.0	11.8	11.9	3.8	3.6	3.9	3.9
Indianapolis .....	840.5	852.4	836.3	849.4	21.4	19.4	23.0	20.4	2.5	2.3	2.7	2.4
Kokomo .....	52.7	53.5	52.6	53.2	1.5	1.5	1.7	1.2	2.9	2.8	3.3	2.3
Lafayette .....	92.2	92.6	90.5	91.7	2.2	1.7	2.2	1.9	2.4	1.8	2.5	2.1
Muncie .....	64.4	63.7	64.0	63.5	2.1	2.0	2.4	2.3	3.3	3.1	3.7	3.6
South Bend .....	137.0	137.5	136.6	137.2	4.2	3.3	4.3	3.7	3.1	2.4	3.2	2.7
Terre Haute .....	73.6	71.0	73.0	71.7	4.0	2.8	4.1	2.9	5.4	3.9	5.6	4.1
<b>Iowa</b> .....	1,579.8	1,574.1	1,574.8	1,567.1	42.5	37.7	45.3	41.8	2.7	2.4	2.9	2.7
Cedar Rapids .....	110.1	109.8	109.9	109.8	2.2	1.7	2.3	1.8	2.0	1.5	2.1	1.6
Des Moines .....	250.3	251.7	249.1	249.8	5.4	4.6	5.5	4.7	2.1	1.8	2.2	1.9
Dubuque .....	49.7	49.3	50.0	49.4	1.4	1.3	1.7	1.4	2.9	2.6	3.3	2.9
Iowa City .....	66.2	66.5	65.7	65.2	1.5	1.4	1.3	1.3	2.2	2.1	1.9	1.9
Sioux City .....	65.5	65.2	65.1	64.7	1.8	1.6	1.7	1.7	2.8	2.4	2.6	2.6
Waterloo-Cedar Falls .....	69.4	70.4	68.8	70.4	2.3	2.3	2.4	3.4	3.4	3.3	3.4	4.9

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	November		December		November		December		November		December	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Kansas</b> .....	1,402.7	1,438.1	1,402.8	1,424.9	49.5	52.0	47.7	46.0	3.5	3.6	3.4	3.2
Lawrence .....	55.9	57.8	55.7	56.7	2.1	2.2	2.0	1.8	3.7	3.8	3.5	3.2
Topeka .....	90.5	90.9	90.5	90.1	4.3	3.9	4.3	3.2	4.7	4.3	4.8	3.6
Wichita .....	283.1	290.9	282.8	288.1	8.7	10.0	7.7	8.8	3.1	3.4	2.7	3.1
<b>Kentucky</b> .....	1,948.9	1,956.8	1,934.7	1,951.6	90.5	79.2	84.6	74.1	4.6	4.0	4.4	3.8
Lexington .....	260.4	264.0	258.5	262.7	5.6	5.0	5.7	4.5	2.1	1.9	2.2	1.7
Louisville .....	558.5	564.7	553.4	564.5	21.6	15.6	17.1	14.1	3.9	2.8	3.1	2.5
Owensboro .....	50.0	50.4	50.0	50.5	2.1	2.1	2.0	1.9	4.3	4.1	4.0	3.8
<b>Louisiana</b> .....	2,039.6	2,059.9	2,023.0	2,047.9	110.4	100.0	108.1	101.0	5.4	4.9	5.3	4.9
Alexandria .....	58.8	60.0	58.4	59.6	3.3	2.7	3.2	2.7	5.5	4.5	5.5	4.5
Baton Rouge .....	294.0	301.3	290.6	298.4	13.5	11.2	12.8	11.1	4.6	3.7	4.4	3.7
Houma .....	91.1	93.7	90.7	93.4	2.6	3.2	2.5	3.4	2.8	3.4	2.7	3.6
Lafayette .....	178.3	181.9	176.5	180.8	9.5	8.7	9.1	8.5	5.3	4.8	5.1	4.7
Lake Charles .....	91.2	90.6	90.2	90.5	5.2	4.7	5.1	4.5	5.7	5.2	5.6	5.0
Monroe .....	70.8	70.0	70.3	69.2	4.1	3.2	3.9	3.0	5.7	4.5	5.5	4.4
New Orleans .....	623.8	619.4	618.0	615.5	30.5	25.3	28.6	24.4	4.9	4.1	4.6	4.0
Shreveport-Bossier City .....	186.7	188.5	186.0	186.9	11.0	9.1	10.8	8.9	5.9	4.9	5.8	4.7
<b>Maine</b> .....	652.6	660.6	652.2	655.5	34.2	28.6	32.7	24.6	5.2	4.3	5.0	3.8
Bangor .....	50.4	53.0	50.7	52.3	2.0	1.5	2.0	1.3	3.9	2.8	3.9	2.5
Lewiston-Auburn .....	52.8	53.2	52.8	53.3	2.8	2.2	2.5	1.8	5.3	4.1	4.7	3.4
Portland .....	133.4	133.5	135.5	134.0	3.7	2.8	3.3	2.4	2.7	2.1	2.4	1.8
<b>Maryland</b> .....	2,791.5	2,798.4	2,768.2	2,784.0	134.7	117.0	123.4	97.1	4.8	4.2	4.5	3.5
Baltimore .....	1,322.4	1,321.3	1,308.8	1,309.0	69.2	62.2	61.6	50.4	5.2	4.7	4.7	3.9
Cumberland .....	46.2	46.9	46.3	46.6	3.5	3.6	3.6	3.4	7.6	7.7	7.8	7.4
Hagerstown .....	71.9	72.1	71.2	72.2	3.2	2.5	3.1	2.2	4.4	3.5	4.4	3.1
<b>Massachusetts</b> .....	3,265.8	3,270.7	3,246.1	3,266.5	113.6	85.1	110.1	88.5	3.5	2.6	3.4	2.7
Barnstable-Yarmouth .....	70.4	71.0	69.3	70.1	3.7	2.7	4.0	3.2	5.2	3.8	5.7	4.6
Boston .....	1,814.5	1,826.7	1,805.0	1,825.9	54.0	39.7	50.0	40.1	3.0	2.2	2.8	2.2
Brockton .....	133.5	133.3	132.4	133.2	5.1	3.6	4.8	3.8	3.8	2.7	3.6	2.8
Fitchburg-Leominster .....	70.7	69.5	70.1	69.1	3.0	2.3	2.8	2.4	4.3	3.2	4.0	3.5
Lawrence .....	198.7	197.9	196.9	196.8	9.3	8.8	8.4	8.3	4.7	4.5	4.3	4.2
Lowell .....	165.9	167.2	165.5	168.1	5.5	4.6	5.2	4.6	3.3	2.7	3.2	2.7
New Bedford .....	81.8	80.9	81.3	80.7	5.1	4.0	5.3	4.2	6.3	5.0	6.5	5.2
Pittsfield .....	40.0	40.1	39.8	39.9	1.8	1.3	1.9	1.5	4.4	3.3	4.7	3.6
Springfield .....	286.6	285.8	284.2	284.3	10.8	8.1	11.0	8.6	3.8	2.8	3.9	3.0
Worcester .....	251.5	250.2	250.0	249.8	8.0	6.5	7.6	6.6	3.2	2.6	3.1	2.7
<b>Michigan</b> .....	5,016.5	5,095.9	5,003.2	5,071.9	177.2	159.9	174.4	171.4	3.5	3.1	3.5	3.4
Ann Arbor .....	295.9	301.7	295.5	300.4	5.8	5.0	5.8	5.4	2.0	1.6	2.0	1.8
Benton Harbor .....	84.6	84.8	83.4	83.6	3.7	3.2	3.5	3.3	4.4	3.7	4.1	3.9
Detroit .....	2,243.4	2,283.3	2,243.7	2,276.4	71.7	65.0	69.1	66.5	3.2	2.8	3.1	2.9
Flint .....	205.1	205.3	204.4	204.8	9.4	8.4	8.9	8.8	4.6	4.1	4.4	4.3
Grand Rapids-Muskegon-Holland .....	590.1	607.3	589.8	606.0	17.0	15.2	16.0	16.0	2.9	2.5	2.7	2.6
Jackson .....	77.1	77.8	76.8	77.6	3.0	2.2	3.0	2.5	3.9	2.8	3.9	3.2
Kalamazoo-Battle Creek .....	233.2	234.1	231.6	231.5	7.9	6.3	7.5	7.4	3.4	2.7	3.2	3.2
Lansing-East Lansing .....	246.7	247.1	245.5	244.5	6.3	5.2	6.5	6.0	2.6	2.1	2.6	2.4
Saginaw-Bay City-Midland .....	202.2	205.1	201.4	204.2	7.4	7.1	7.5	7.8	3.6	3.5	3.7	3.8
<b>Minnesota</b> .....	2,671.9	2,713.7	2,650.0	2,685.7	67.3	54.2	69.3	58.6	2.5	2.0	2.6	2.2
Duluth-Superior .....	124.7	125.6	122.9	124.0	5.2	4.1	4.8	4.2	4.2	3.3	3.9	3.4
Minneapolis-St. Paul .....	1,671.6	1,708.8	1,661.3	1,688.6	32.6	26.5	31.6	27.1	2.0	1.6	1.9	1.6
Rochester .....	67.4	69.4	66.8	68.4	1.0	0.8	1.0	0.9	1.5	1.2	1.6	1.3
St. Cloud .....	94.1	94.4	93.9	93.5	2.7	2.0	3.0	2.3	2.8	2.1	3.2	2.5
<b>Mississippi</b> .....	1,279.1	1,283.8	1,278.2	1,291.2	60.6	53.4	52.3	55.7	4.7	4.2	4.1	4.3
Biloxi-Gulfport-Pascagoula .....	162.5	164.9	161.7	165.8	6.6	5.3	5.0	4.9	4.0	3.2	3.1	3.0
Hattiesburg .....	52.8	51.7	52.6	52.1	1.4	1.3	1.1	1.2	2.6	2.5	2.1	2.3
Jackson .....	227.9	231.5	228.5	231.2	6.8	6.4	5.5	6.3	3.0	2.8	2.4	2.7
<b>Missouri</b> .....	2,889.9	2,898.0	2,891.1	2,883.1	107.5	97.1	112.7	90.1	3.7	3.3	3.9	3.1
Columbia .....	79.9	78.1	80.2	78.0	1.1	1.1	1.2	0.9	1.3	1.4	1.5	1.2
Joplin .....	78.7	78.3	78.4	77.7	2.9	3.1	2.8	2.7	3.7	4.0	3.6	3.4
Kansas City .....	976.5	1,000.5	977.7	994.3	32.6	31.9	32.7	27.4	3.3	3.2	3.3	2.8
St. Joseph .....	49.1	49.7	49.3	49.5	2.3	1.9	2.4	1.7	4.6	3.9	4.9	3.4
St. Louis LMA .....	1,345.9	1,359.6	1,349.5	1,356.1	51.0	48.3	52.2	45.4	3.8	3.6	3.9	3.3
Springfield .....	170.1	171.1	169.0	169.9	5.1	4.3	5.2	4.0	3.0	2.5	3.1	2.4
<b>Montana</b> .....	455.2	465.4	454.1	464.8	24.1	25.9	26.1	27.2	5.3	5.6	5.7	5.9
Billings .....	69.2	70.5	69.5	70.5	2.8	2.7	3.1	2.8	4.1	3.8	4.4	4.0
Great Falls .....	38.1	37.5	38.5	37.6	2.1	2.1	2.1	2.2	5.4	5.7	5.5	5.8

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	November		December		November		December		November		December	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Nebraska</b> .....	920.6	936.1	917.0	929.8	15.5	19.0	14.3	19.7	1.7	2.0	1.6	2.1
Lincoln .....	145.0	145.3	143.6	144.6	2.1	2.1	1.8	2.0	1.4	1.4	1.3	1.4
Omaha .....	392.9	406.1	391.1	402.5	7.1	7.8	6.4	7.6	1.8	1.9	1.6	1.9
<b>Nevada</b> .....	897.6	948.6	896.6	935.7	32.6	31.4	33.9	26.5	3.6	3.3	3.8	2.8
Las Vegas .....	679.6	725.7	679.5	717.6	24.9	23.8	25.4	19.9	3.7	3.3	3.7	2.8
Reno .....	172.2	178.0	171.6	176.1	5.3	5.0	5.6	4.6	3.1	2.8	3.3	2.6
<b>New Hampshire</b> .....	654.2	658.5	648.0	654.3	19.2	20.1	17.6	17.3	2.9	3.1	2.7	2.6
Manchester .....	102.4	102.2	102.4	101.1	2.5	2.8	2.3	2.3	2.4	2.8	2.3	2.3
Nashua .....	104.6	106.2	104.2	106.1	2.7	3.2	2.5	2.7	2.6	3.0	2.4	2.5
Portsmouth-Rochester .....	123.1	122.7	121.1	122.0	3.0	3.0	2.7	2.7	2.5	2.5	2.2	2.2
<b>New Jersey</b> .....	4,187.7	4,177.7	4,177.0	4,184.2	195.2	175.2	196.7	172.7	4.7	4.2	4.7	4.1
Atlantic-Cape May .....	171.6	170.9	170.4	170.3	15.3	14.8	16.4	15.2	8.9	8.7	9.6	8.9
Bergen-Passaic .....	682.4	678.1	681.6	678.6	30.8	27.0	30.7	26.7	4.5	4.0	4.5	3.9
Jersey City .....	285.1	283.1	284.3	284.0	20.3	18.7	20.9	18.9	7.1	6.6	7.4	6.7
Middlesex-Somerset-Hunterdon .....	644.0	650.7	641.3	652.3	20.8	18.2	20.1	17.2	3.2	2.8	3.1	2.6
Monmouth-Ocean .....	513.3	511.4	509.9	509.6	22.9	20.6	23.1	20.0	4.5	4.0	4.5	3.9
Newark .....	1,020.1	1,019.2	1,021.0	1,023.3	46.9	41.5	46.5	40.7	4.6	4.1	4.6	4.0
Trenton .....	170.3	167.1	170.0	168.7	7.0	6.1	7.0	6.2	4.1	3.6	4.1	3.7
Vineland-Millville-Bridgeton .....	66.1	65.9	66.3	65.7	5.4	5.2	6.0	5.4	8.2	7.9	9.0	8.2
<b>New Mexico</b> .....	836.3	851.4	832.7	846.1	47.7	50.9	49.4	50.6	5.7	6.0	5.9	6.0
Albuquerque .....	365.4	374.0	364.6	372.7	14.7	16.9	14.7	16.6	4.0	4.5	4.0	4.5
Las Cruces .....	69.1	71.1	68.3	69.1	5.1	5.4	5.8	5.2	7.4	7.7	8.5	7.5
Santa Fe .....	74.7	75.9	74.3	75.6	2.6	2.4	2.6	2.3	3.4	3.2	3.5	3.0
<b>New York</b> .....	8,780.0	8,794.0	8,747.1	8,781.9	517.6	450.7	498.6	450.9	5.9	5.1	5.7	5.1
Albany-Schenectady-Troy .....	454.1	451.6	452.2	448.7	18.3	14.1	18.1	13.9	4.0	3.1	4.0	3.1
Binghamton .....	126.2	126.3	125.5	125.5	4.9	4.3	5.2	4.5	3.9	3.4	4.1	3.6
Buffalo-Niagara Falls .....	583.3	575.2	582.7	573.3	30.4	25.8	30.4	26.0	5.2	4.5	5.2	4.5
Dutchess County .....	118.7	119.8	118.1	118.6	4.2	3.5	4.0	3.3	3.5	2.9	3.4	2.8
Elmira .....	44.4	44.4	44.5	44.5	2.0	1.7	1.9	1.7	4.5	3.7	4.2	3.7
Glens Falls .....	60.9	59.5	60.3	58.5	4.2	3.4	4.4	3.4	7.0	5.7	7.2	5.7
Jamestown .....	68.0	67.1	67.8	67.0	4.0	3.4	4.0	3.4	5.8	5.1	5.9	5.1
Nassau-Suffolk .....	1,400.7	1,406.6	1,403.3	1,406.1	50.9	37.8	47.4	35.6	3.6	2.7	3.4	2.5
New York .....	3,984.6	4,027.3	3,967.3	4,032.2	302.8	276.1	285.2	275.4	7.6	6.9	7.2	6.8
New York City .....	3,344.6	3,379.9	3,326.7	3,385.1	280.9	258.4	264.9	258.4	8.4	7.6	8.0	7.6
Newburgh .....	171.9	170.6	170.7	170.3	6.5	5.1	6.0	4.8	3.8	3.0	3.5	2.8
Rochester .....	574.1	566.7	571.8	563.7	22.7	20.0	23.1	20.5	4.0	3.5	4.0	3.6
Syracuse .....	368.2	364.0	363.3	363.8	16.6	12.4	16.5	13.2	4.5	3.4	4.5	3.6
Utica-Rome .....	143.8	143.0	142.3	142.6	7.4	5.5	7.4	5.8	5.1	3.8	5.2	4.1
<b>North Carolina</b> .....	3,850.0	3,828.0	3,800.1	3,798.6	134.2	121.9	125.3	104.2	3.5	3.2	3.3	2.7
Asheville .....	113.8	112.7	112.1	111.6	2.7	2.5	2.7	2.1	2.4	2.2	2.4	1.9
Charlotte-Gastonia-Rock Hill .....	749.6	742.1	740.9	738.0	20.1	17.6	17.5	14.8	2.7	2.4	2.4	2.0
Fayetteville .....	117.1	115.0	115.4	114.7	4.7	4.4	4.0	3.6	4.0	3.8	3.5	3.2
Goldensboro .....	48.4	48.5	47.9	47.3	2.2	2.1	1.9	1.6	4.5	4.3	4.0	3.4
Greensboro-Winston-Salem-High Point .....	640.6	628.3	633.1	625.8	17.4	14.2	15.5	11.6	2.7	2.3	2.5	1.9
Greenville .....	65.0	66.1	63.5	64.4	2.9	2.5	2.6	2.0	4.5	3.8	4.1	3.1
Hickory-Morganton-Lenoir .....	175.5	173.0	173.4	172.6	6.4	4.0	5.5	3.2	3.7	2.3	3.2	1.9
Jacksonville .....	45.4	45.9	45.0	45.7	1.6	1.6	1.6	1.3	3.6	3.5	3.6	2.8
Raleigh-Durham-Chapel Hill .....	617.0	622.3	607.5	617.3	11.3	9.9	9.8	7.9	1.8	1.6	1.6	1.3
Rocky Mount .....	71.8	67.9	71.9	66.4	5.1	4.2	5.4	3.4	7.1	6.2	7.5	5.1
Wilmington .....	108.5	106.6	107.5	106.1	4.8	4.0	4.7	3.6	4.4	3.7	4.4	3.4
<b>North Dakota</b> .....	341.6	340.2	339.4	337.8	6.4	7.9	7.3	9.1	1.9	2.3	2.2	2.7
Bismarck .....	53.0	52.9	52.7	52.8	1.0	1.2	1.2	1.3	1.9	2.3	2.2	2.4
Fargo-Moorhead .....	103.2	103.0	102.9	102.5	1.2	1.2	1.5	1.6	1.1	1.2	1.5	1.5
Grand Forks .....	54.0	53.4	53.5	52.9	1.2	1.0	1.2	1.2	2.2	1.8	2.3	2.2
<b>Ohio</b> .....	5,800.0	5,837.6	5,783.3	5,790.9	250.3	235.5	248.5	220.9	4.3	4.0	4.3	3.8
Akron .....	368.3	371.5	368.4	370.0	14.7	14.0	15.5	13.1	4.0	3.8	4.2	3.5
Canton-Massillon .....	206.0	209.2	205.1	208.0	8.9	8.2	8.9	7.7	4.3	3.9	4.4	3.7
Cincinnati .....	853.0	870.2	851.2	864.9	29.6	28.0	28.4	24.3	3.5	3.2	3.3	2.8
Cleveland-Lorain-Elyria .....	1,133.4	1,145.8	1,131.5	1,136.7	52.5	48.1	50.8	44.9	4.6	4.2	4.5	3.9
Columbus .....	822.3	833.6	820.9	825.9	22.4	21.3	21.4	19.1	2.7	2.6	2.6	2.3
Dayton-Springfield .....	486.3	482.7	484.1	478.3	18.6	17.2	17.8	15.2	3.8	3.6	3.7	3.2
Hamilton-Middletown .....	178.4	177.7	177.1	175.7	6.2	6.0	5.9	5.2	3.5	3.4	3.3	3.0
Lima .....	76.3	77.6	76.9	76.7	3.4	3.8	3.7	3.4	4.4	4.9	4.8	4.4
Mansfield .....	85.2	83.5	84.7	83.0	5.2	4.4	4.8	4.1	6.1	5.3	5.7	4.9
Steubenville-Weirton .....	58.5	57.2	57.7	57.3	4.6	3.7	4.3	3.8	7.8	6.5	7.5	6.6
Toledo .....	322.2	321.4	321.9	318.7	14.6	14.8	14.2	13.3	4.5	4.6	4.4	4.2
Youngstown-Warren .....	290.4	292.5	289.3	290.0	15.9	15.2	16.5	15.5	5.5	5.2	5.7	5.3

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	November		December		November		December		November		December	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Oklahoma</b> .....	1,611.6	1,644.4	1,595.4	1,633.2	56.0	64.5	53.5	68.6	3.5	3.9	3.4	4.2
Enid .....	28.4	28.7	28.2	28.5	0.8	0.9	0.8	1.0	2.8	3.2	2.7	3.5
Lawton .....	40.3	41.0	39.6	40.5	1.7	1.8	1.6	1.9	4.2	4.5	4.0	4.7
Oklahoma City .....	532.6	545.5	527.5	541.2	15.2	17.3	14.2	17.7	2.9	3.2	2.7	3.3
Tulsa .....	406.4	419.6	402.5	417.5	11.6	12.3	10.9	13.5	2.9	2.9	2.7	3.2
<b>Oregon</b> .....	1,767.8	1,806.1	1,764.5	1,785.2	92.1	98.5	91.0	95.5	5.2	5.5	5.2	5.3
Eugene-Springfield .....	162.0	164.4	162.0	164.0	8.3	8.5	8.2	8.4	5.1	5.2	5.1	5.1
Medford-Ashland .....	89.0	90.9	90.2	91.2	5.4	5.5	5.1	5.2	6.1	6.1	5.7	5.7
Portland-Vancouver .....	1,052.2	1,080.1	1,052.5	1,070.8	40.7	46.7	39.2	43.7	3.9	4.3	3.7	4.1
Salem .....	166.2	168.5	165.1	166.4	8.6	9.5	8.8	9.5	5.2	5.6	5.3	5.7
<b>Pennsylvania</b> .....	6,014.8	5,963.9	5,987.3	5,924.4	275.6	258.5	251.5	227.9	4.6	4.3	4.2	3.8
Allentown-Bethlehem-Easton .....	310.0	305.8	308.4	304.2	13.3	13.5	11.8	11.6	4.3	4.4	3.8	3.8
Altoona .....	63.6	63.1	63.2	62.9	3.2	2.8	3.0	2.5	5.0	4.4	4.8	3.9
Erie .....	141.0	139.5	140.4	138.7	7.2	6.6	6.8	5.9	5.1	4.7	4.9	4.3
Harrisburg-Lebanon-Carlisle .....	351.1	350.2	350.3	349.1	10.2	9.6	9.3	8.6	2.9	2.8	2.7	2.5
Johnstown .....	105.9	104.0	105.7	103.9	7.4	5.9	7.1	5.6	7.0	5.7	6.7	5.3
Lancaster .....	246.9	246.3	244.5	243.9	7.0	6.6	6.2	5.5	2.8	2.7	2.5	2.3
Philadelphia .....	2,510.0	2,495.9	2,499.8	2,483.2	110.8	100.5	96.8	85.5	4.4	4.0	3.9	3.4
Pittsburgh .....	1,160.0	1,145.7	1,157.3	1,139.6	49.4	49.4	47.0	45.1	4.3	4.3	4.1	4.0
Reading .....	187.0	183.4	185.9	182.5	7.0	7.4	6.0	6.5	3.7	4.0	3.2	3.5
Scranton—Wilkes-Barre—Hazleton .....	315.8	313.4	314.3	311.6	20.3	17.4	19.4	16.2	6.4	5.6	6.2	5.2
Sharon .....	57.1	56.8	56.6	56.1	2.1	2.0	2.1	1.9	3.6	3.6	3.6	3.4
State College .....	69.4	69.9	68.3	68.1	1.7	1.8	2.1	1.8	2.4	2.6	3.0	2.6
Williamsport .....	58.5	57.8	58.6	57.6	3.6	3.0	3.6	2.7	6.2	5.2	6.2	4.7
York .....	195.9	193.2	196.1	192.8	6.8	6.5	6.0	5.5	3.5	3.4	3.1	2.8
<b>Rhode Island</b> .....	510.5	506.4	508.5	503.3	22.8	22.4	22.8	18.2	4.5	4.4	4.5	3.6
Providence-Fall River-Warwick .....	582.9	577.6	581.0	574.5	26.6	24.6	27.1	21.1	4.6	4.3	4.7	3.7
<b>South Carolina</b> .....	1,893.7	1,944.4	1,873.0	1,920.8	61.6	66.9	59.7	65.4	3.3	3.4	3.2	3.4
Charleston-North Charleston .....	253.3	265.0	250.5	262.6	6.7	6.4	6.3	6.2	2.6	2.4	2.5	2.4
Columbia .....	270.3	279.5	267.9	277.8	5.2	5.0	4.7	4.8	1.9	1.8	1.8	1.7
Florence .....	62.3	62.5	61.5	61.9	2.4	2.5	2.2	2.4	3.9	3.9	3.6	3.9
Greenville-Spartanburg-Anderson .....	481.3	497.5	477.2	492.4	10.0	12.3	9.6	11.9	2.1	2.5	2.0	2.4
Myrtle Beach .....	94.4	98.8	92.8	96.9	3.9	3.9	4.7	4.7	4.2	3.9	5.0	4.9
Sumter .....	46.2	47.0	45.7	46.2	1.8	1.9	1.8	1.8	4.0	4.1	3.8	3.8
<b>South Dakota</b> .....	394.8	403.4	390.3	396.8	10.5	10.1	10.8	10.4	2.6	2.5	2.8	2.6
Rapid City .....	46.1	47.1	45.4	46.0	1.3	1.1	1.2	1.1	2.8	2.4	2.7	2.4
Sioux Falls .....	100.4	104.7	99.5	103.3	1.6	1.4	1.6	1.4	1.6	1.4	1.7	1.4
<b>Tennessee</b> .....	2,786.3	2,818.7	2,762.5	2,787.6	136.7	105.3	116.6	97.2	4.9	3.7	4.2	3.5
Chattanooga .....	229.3	230.0	226.7	227.6	10.9	7.4	9.1	6.6	4.8	3.2	4.0	2.9
Clarksville-Hopkinsville .....	83.1	84.7	82.4	84.2	3.7	2.7	3.1	2.4	4.5	3.2	3.8	2.8
Jackson .....	57.0	57.7	56.5	57.1	2.2	1.9	1.9	1.8	3.9	3.2	3.3	3.1
Johnson City-Kingsport-Bristol .....	233.8	233.6	233.2	233.5	10.7	8.6	9.9	10.3	4.6	3.7	4.3	4.4
Knoxville .....	346.4	347.7	343.4	343.1	13.9	11.7	11.9	10.8	4.0	3.4	3.5	3.1
Memphis .....	546.6	559.3	543.4	555.5	24.2	17.7	20.3	16.1	4.4	3.2	3.7	2.9
Nashville .....	641.3	654.6	638.0	648.2	20.7	16.7	16.8	14.2	3.2	2.5	2.6	2.2
<b>Texas</b> .....	9,997.9	10,222.9	9,986.6	10,209.1	489.6	463.4	450.1	447.0	4.9	4.5	4.5	4.4
Abilene .....	60.7	62.4	60.3	62.5	2.1	2.2	1.9	2.0	3.5	3.4	3.1	3.1
Amarillo .....	110.8	112.3	110.8	112.5	3.7	3.5	3.3	3.1	3.3	3.1	3.0	2.8
Austin-San Marcos .....	662.9	684.0	661.4	679.6	18.8	16.8	17.1	15.8	2.8	2.5	2.6	2.3
Beaumont-Port Arthur .....	182.1	185.3	182.1	183.3	13.7	13.0	12.9	12.4	7.5	7.0	7.1	6.8
Brazoria .....	106.1	106.5	105.5	105.9	6.9	6.0	6.2	5.7	6.5	5.6	5.9	5.4
Brownsville-Harlingen-San Benito .....	127.3	126.9	126.5	128.5	15.8	14.5	14.6	16.1	12.4	11.5	11.5	12.6
Bryan-College Station .....	73.0	74.2	72.7	73.8	1.3	1.2	1.2	1.2	1.8	1.7	1.6	1.6
Corpus Christi .....	176.0	177.1	176.0	175.6	11.4	11.4	11.0	10.7	6.5	6.5	6.2	6.1
Dallas .....	1,849.8	1,893.4	1,850.2	1,890.0	62.9	55.9	56.3	51.9	3.4	3.0	3.0	2.7
El Paso .....	292.0	300.0	289.6	299.5	29.2	29.5	26.1	27.7	10.0	9.8	9.0	9.2
Fort Worth-Arlington .....	858.6	882.1	859.1	881.5	28.1	26.3	25.7	24.4	3.3	3.0	3.0	2.8
Galveston-Texas City .....	124.5	125.3	123.8	125.4	9.0	7.6	8.1	7.3	7.2	6.0	6.6	5.8
Houston .....	2,075.4	2,120.5	2,076.1	2,120.9	91.7	80.8	82.5	78.0	4.4	3.8	4.0	3.7
Killeen-Temple .....	114.7	117.6	114.2	117.4	5.6	4.4	4.9	4.0	4.8	3.8	4.3	3.4
Laredo .....	70.8	72.0	70.7	72.2	6.5	6.5	6.1	6.4	9.2	9.1	8.6	8.9
Longview-Marshall .....	104.3	106.2	103.8	105.9	7.3	7.8	6.7	7.3	7.0	7.3	6.4	6.9
Lubbock .....	124.4	127.1	124.0	126.4	4.3	3.1	3.9	2.8	3.5	2.5	3.1	2.2
McAllen-Edinburg-Mission .....	196.6	196.6	195.5	200.0	35.4	34.1	36.1	35.6	18.0	17.3	18.1	17.8
Odessa-Midland .....	125.5	129.0	124.8	129.4	5.3	7.7	4.7	8.4	4.2	6.0	3.8	6.5
San Angelo .....	51.7	52.8	51.4	52.4	1.6	2.6	1.4	2.4	3.0	5.0	2.7	4.6
San Antonio .....	752.9	772.9	751.9	772.6	28.8	24.7	25.4	22.6	3.8	3.2	3.4	2.9
Sherman-Denison .....	50.1	51.2	49.8	51.0	1.9	2.6	1.8	2.4	3.7	5.1	3.5	4.7

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	November		December		November		December		November		December	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Texas—Continued</b>												
Texarkana .....	57.6	58.3	57.1	58.0	4.2	3.6	3.8	3.4	7.3	6.1	6.6	5.9
Tyler .....	89.2	91.8	89.3	91.5	5.3	4.3	4.8	3.8	5.9	4.7	5.4	4.2
Victoria .....	43.2	45.0	42.7	44.8	1.7	1.9	1.6	1.7	4.0	4.3	3.8	3.9
Waco .....	101.3	102.9	101.1	102.7	4.3	3.4	3.9	3.3	4.3	3.3	3.9	3.2
Wichita Falls .....	65.6	67.0	65.8	67.1	2.8	3.1	2.7	3.2	4.3	4.7	4.0	4.7
<b>Utah</b> .....	1,071.5	1,098.8	1,071.4	1,096.6	30.8	32.0	26.2	30.0	2.9	2.9	2.4	2.7
Provo-Orem .....	160.6	166.4	160.1	165.5	3.6	4.3	3.1	3.9	2.3	2.6	1.9	2.4
Salt Lake City-Ogden .....	691.8	706.6	691.1	705.0	19.5	19.5	16.2	17.8	2.8	2.8	2.3	2.5
<b>Vermont</b> .....	330.6	333.4	331.8	334.8	12.1	9.6	11.9	9.5	3.7	2.9	3.6	2.8
Burlington .....	100.8	102.5	100.5	102.1	2.4	2.0	2.4	1.9	2.4	1.9	2.4	1.9
<b>Virginia</b> .....	3,488.2	3,569.3	3,504.8	3,559.1	115.5	99.3	109.7	96.8	3.3	2.8	3.1	2.7
Charlottesville .....	73.9	78.7	74.2	78.2	1.2	1.0	1.1	0.9	1.7	1.2	1.4	1.1
Danville .....	57.2	59.1	57.7	58.8	2.8	3.3	2.9	3.0	4.9	5.6	5.1	5.2
Lynchburg .....	103.6	104.7	104.1	104.2	3.0	2.5	3.0	2.3	2.9	2.4	2.9	2.2
Norfolk-Virginia Beach-Newport News .....	736.5	747.3	737.2	745.1	29.2	25.1	26.7	23.4	4.0	3.4	3.6	3.1
Richmond-Petersburg .....	510.0	520.2	513.8	518.2	15.4	13.3	14.0	12.0	3.0	2.6	2.7	2.3
Roanoke .....	128.0	129.0	128.4	128.3	3.4	2.8	3.0	2.7	2.7	2.1	2.3	2.1
<b>Washington</b> .....	2,995.5	3,066.0	3,013.1	3,090.4	134.9	149.3	139.7	153.0	4.5	4.9	4.6	5.0
Bellingham .....	79.5	81.1	80.0	82.0	4.4	4.5	4.5	4.7	5.5	5.6	5.6	5.7
Bremerton .....	92.7	92.6	92.1	93.1	4.9	4.7	4.9	4.6	5.3	5.1	5.3	4.9
Olympia .....	97.5	100.4	98.5	101.8	5.0	4.8	4.8	4.7	5.1	4.8	4.9	4.6
Richland-Kennewick-Pasco .....	88.9	91.9	88.0	91.3	6.9	7.8	7.2	8.1	7.7	8.5	8.2	8.8
Seattle-Bellevue-Everett .....	1,369.0	1,404.4	1,386.0	1,421.7	40.3	43.3	39.8	42.7	2.9	3.1	2.9	3.0
Spokane .....	208.4	209.6	211.0	211.5	8.4	11.2	9.5	11.4	4.1	5.4	4.5	5.4
Tacoma .....	328.6	336.6	331.2	340.2	14.4	14.9	13.8	14.3	4.4	4.4	4.2	4.2
Yakima .....	107.4	110.2	106.7	109.7	11.4	12.8	13.1	14.2	10.6	11.6	12.2	12.9
<b>West Virginia</b> .....	803.0	805.6	802.2	805.4	49.8	48.2	52.1	48.6	6.2	6.0	6.5	6.0
Charleston .....	131.7	134.0	130.8	134.5	5.7	5.9	5.8	5.9	4.4	4.4	4.4	4.4
Huntington-Ashland .....	137.8	137.7	137.1	138.1	9.0	8.1	8.6	8.1	6.5	5.9	6.2	5.9
Parkersburg-Marietta .....	78.1	78.8	77.6	78.0	4.6	4.3	4.3	4.2	5.8	5.4	5.5	5.4
Wheeling .....	74.5	74.3	74.2	73.9	3.8	3.2	4.0	3.3	5.0	4.4	5.4	4.4
<b>Wisconsin</b> .....	2,939.7	2,961.4	2,936.0	2,948.8	89.1	92.4	88.7	92.1	3.0	3.1	3.0	3.1
Appleton-Oshkosh-Neenah .....	222.8	225.3	221.6	224.8	5.8	5.4	5.6	5.1	2.6	2.4	2.5	2.2
Eau Claire .....	83.7	84.0	83.1	83.3	2.4	2.4	2.8	2.7	2.9	2.8	3.4	3.3
Green Bay .....	131.9	130.7	131.8	130.4	3.5	3.2	3.3	3.0	2.6	2.4	2.5	2.3
Janesville-Beloit .....	79.8	78.8	79.4	78.2	2.8	2.9	2.4	2.8	3.5	3.6	3.1	3.6
Kenosha .....	77.4	80.3	78.5	80.1	2.2	2.5	2.0	2.5	2.8	3.1	2.6	3.1
La Crosse .....	71.6	71.5	71.5	71.4	1.8	1.8	1.8	1.9	2.5	2.5	2.6	2.6
Madison .....	260.7	265.7	259.4	264.2	3.7	3.6	3.7	3.6	1.4	1.4	1.4	1.4
Milwaukee-Waukesha .....	810.4	823.6	811.1	818.4	24.6	26.9	21.4	23.9	3.0	3.3	2.6	2.9
Racine .....	95.1	95.4	94.9	95.4	3.2	3.6	3.1	3.3	3.4	3.8	3.3	3.5
Sheboygan .....	59.9	59.7	60.1	59.7	1.4	1.3	1.3	1.2	2.3	2.2	2.1	2.0
Wausau .....	72.9	73.2	73.2	73.1	2.2	2.1	2.2	2.3	3.0	2.9	3.1	3.2
<b>Wyoming</b> .....	252.4	257.7	253.1	255.7	10.8	11.5	11.5	11.6	4.3	4.5	4.6	4.6
Casper .....	32.9	34.1	33.5	34.2	1.6	1.7	1.7	1.7	4.9	5.0	5.1	4.9
Cheyenne .....	39.0	39.8	39.4	39.8	1.4	1.3	1.5	1.4	3.7	3.3	3.9	3.5
<b>Puerto Rico</b> .....	1,325.4	1,314.3	1,292.6	1,326.4	176.8	163.7	169.0	146.8	13.3	12.5	13.1	11.1
Aguadilla .....	52.4	50.3	51.0	50.2	10.0	8.5	9.6	7.7	19.1	16.8	18.8	15.4
Arecibo .....	54.1	52.5	52.5	52.9	7.9	7.1	7.7	6.4	14.6	13.4	14.7	12.1
Caguas .....	118.9	118.0	116.3	118.7	13.9	14.0	13.1	12.4	11.7	11.9	11.2	10.4
Mayaguez .....	94.2	91.9	91.8	92.8	15.6	12.7	14.8	11.2	16.6	13.8	16.2	12.1
Ponce .....	112.5	112.8	109.6	113.5	19.6	17.4	18.5	15.6	17.4	15.4	16.9	13.7
San Juan-Bayamon .....	716.5	720.6	701.6	727.8	77.5	74.9	74.5	66.6	10.8	10.4	10.6	9.2

P = preliminary.

when new benchmark and population information becomes available.

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

# Explanatory Notes and Estimates of Error

## Introduction

The statistics in this periodical are compiled from two major sources: (1) household interviews, and (2) reports from employers.

*Data based on household interviews* are obtained from the Current Population Survey (CPS), a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, classified by such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 50,000 households (beginning with January 1996 data) located in 754 sample areas. These areas are chosen to represent all counties and independent cities in the U.S., with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires and telephone interviews by the Bureau of Labor Statistics, in cooperation with State agencies. The Current Employment Statistics (CES) survey is designed to provide industry information on nonfarm wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of about 390,000 establishments employing about 48 million nonfarm wage and salary workers. The data relate to all workers, full or part time, who receive pay during the payroll period which includes the 12th of the month.

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other be-

cause of variations in definitions and coverage, source of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on the levels and trends of the two data series are as follows.

### Employment

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

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

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

### Hours of work

The household survey measures hours worked for all workers whereas the payroll survey measures hours for private production and nonsupervisory workers paid for by employers. In the household survey, all persons with a job

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

### Earnings

The household survey measures the earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to average earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the various earnings series available from the household and establishment surveys, see *BLS Measures of Compensation*, BLS Bulletin 2239 (1986).

### COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job during the reference week, were currently available for a job, and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the U.S. Department of Labor, exclude, in addition to otherwise ineligible persons who do not file claims for benefits, persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers).

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

For an examination of the similarities and differences

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

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

### COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

*Employment covered by State unemployment insurance programs.* Most nonfarm wage and salary workers are covered by the unemployment insurance programs. However, some employees, such as those working in parochial schools and churches, are not covered by unemployment insurance, whereas they are included in the BLS establishment statistics.



# Household Data

## ("A" tables, monthly; "D" tables, quarterly)

### COLLECTION AND COVERAGE

Statistics on the employment status of the population and related data are compiled by BLS using data from the Current Population Survey (CPS). This monthly survey of households is conducted for BLS by the Bureau of the Census through a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th day of the month. This is known as the "reference week." Actual field interviewing is conducted in the following week, referred to as the "survey week."

Each month about 50,000 occupied units are eligible for interview. Some 3,200 of these households are contacted but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey that ranges between 6 and 7 percent. In addition to the 50,000 occupied units, there are about 9,000 sample units in an average month which are visited but found to be vacant or otherwise not eligible for enumeration. Part of the sample is changed each month. The rotation plan, as will be explained later, provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

### CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those in use as of January 1994 are as follows:

*Civilian noninstitutional population.* Included are persons 16 years of age and older residing in the 50 States and the District of Columbia who are not inmates of institutions (e.g., penal and mental facilities, homes for the aged), and who are not on active duty in the Armed Forces.

*Employed persons.* All persons who, during the reference week, (a) did any work at all (at least 1 hour) as paid employees, worked in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family, and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of vacation, illness, bad weather, child-care problems, maternity or paternity leave, labor-management dispute, job training, or other family or personal reasons, whether or not they were paid for the time off or were seeking other jobs.

Each employed person is counted only once, even if he or she holds more than one job. For purposes of occupation and industry classification, multiple jobholders are counted in the job at which they worked the greatest number of hours during the reference week.

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

*Unemployed persons.* All persons who had no employment during the reference week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the 4-week-period ending with the reference week. Persons who were waiting to be recalled to a job from which they had been laid off need not have been looking for work to be classified as unemployed.

*Duration of unemployment.* This represents the length of time (through the current reference week) that persons classified as unemployed had been looking for work. For persons on layoff, duration of unemployment represents the number of full weeks they had been on layoff. Mean duration is the arithmetic average computed from single weeks of unemployment; median duration is the midpoint of a distribution of weeks of unemployment.

*Reason for unemployment.* Unemployment is also categorized according to the status of individuals at the time they began to look for work. The reasons for unemployment are divided into five major groups: (1) *Job losers*, comprised of (a) persons *on temporary layoff*, who have been given a date to return to work or who expect to return within 6 months (persons on layoff need not be looking for work to qualify as unemployed), and (b) *permanent job losers*, whose employment ended involuntarily and who began looking for work; (2) *Job leavers*, persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work; (3) *Persons who completed temporary jobs*, who began looking for work after the jobs ended; (4) *Reentrants*, persons who previously worked but were out of the labor force prior to beginning their job search; and (5) *New entrants*, persons who never worked. Each of these five categories of the unemployed can be expressed as a proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers. (For statistical presentation purposes, "job losers" and "persons who completed temporary jobs" are combined into a single category until seasonal adjustments can be developed for the separate categories.)

*Jobseekers.* All unemployed persons who made specific efforts to find a job sometime during the 4-week period preceding the survey week are classified as jobseekers. Jobseekers do not include persons classified as on temporary layoff, who although often looking for work, are not required to do so to be classified as unemployed. Jobseekers are grouped by the methods used to seek work. Only active methods—which have the potential to result in a job offer without further action on the part of the jobseeker—qualify as job search. Examples include going to an employer directly or to a public or private employment agency, seeking assistance from friends or relatives, placing or answering ads, or using some other active method. Examples of the “other” category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point. Passive methods, which do not qualify as job search, include reading (as opposed to answering or placing) “help wanted” ads and taking a job training course.

*Labor force.* This group comprises all persons classified as employed or unemployed in accordance with the criteria described above.

*Unemployment rate.* The unemployment rate represents the number unemployed as a percent of the labor force.

*Participation rate.* This represents the proportion of the population that is in the labor force.

*Employment-population ratio.* This represents the proportion of the population that is employed.

*Not in the labor force.* Included in this group are all persons in the civilian noninstitutional population who are neither employed nor unemployed. Information is collected on their desire for and availability to take a job at the time of the CPS interview, job search activity in the prior year, and reason for not looking in the 4-week period prior to the survey week. This group includes discouraged workers, defined as persons not in the labor force who want and are available for a job and who have looked for work sometime in the past 12 months (or since the end of their last job if they held one within the past 12 months), but are not currently looking, because they believe there are no jobs available or there are none for which they would qualify.

Persons classified as not in the labor force who are in the sample for either their fourth or eighth month are asked additional questions relating to job history and workseeking intentions. These latter data are available on a quarterly basis.

*Occupation, industry, and class of worker.* This information for the employed applies to the job held in the reference week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours. The unemployed are classified according to their last job. The occupational and industrial classification of CPS data is based on the coding systems used in the 1990 census.

The class-of-worker breakdown assigns workers to the following categories: Private and government wage and salary workers, self-employed workers, and unpaid family workers. Wage and salary workers receive wages, salary, commissions, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, trade, or farm. Only the unincorporated self-employed are included in the self-employed category in the class of worker typology. Self-employed persons who respond that their businesses are incorporated are included among wage and salary workers, because technically, they are paid employees of a corporation. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by birth or marriage.

*Multiple jobholders.* These are employed persons who, during the reference week, had either two or more jobs as a wage and salary worker, were self-employed and also held a wage and salary job, or worked as an unpaid family worker and also held a wage and salary job. Excluded are self-employed persons with multiple businesses and persons with multiple jobs as unpaid family workers.

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

*At work part time for economic reasons.* Sometimes referred to as involuntary part time, this category refers to individuals who gave an economic reason for working 1 to 34 hours during the reference week. Economic reasons include slack work or unfavorable business conditions, inability to find full-time work, and seasonal declines in demand. Those who usually work part time must also indicate that they want and are available to work full time to be classified as on part time for economic reasons.

*At work part time for noneconomic reasons.* This group includes those persons who usually work part time and were at work 1 to 34 hours during the reference week for a noneconomic reason. Noneconomic reasons include, for example: Illness or other medical limitations, child-care problems or other family or personal obligations, school or training, retirement or Social Security limits on earnings, and being in a job where full-time work is less than 35 hours. The group also includes those who gave an economic reason for usually working 1 to 34 hours but said they do not want to work full time or were unavailable for such work.

*Usual full- or part-time status.* Data on persons “at work” exclude persons who were temporarily absent from a job and therefore classified in the zero-hours-worked category, “with a job but not at work.” These are persons who were absent from their jobs for the entire week for such reasons as bad weather, vacation, illness, or involvement in a labor dispute. In order to differentiate a person’s normal schedule from their activity during the reference week, persons are also classified according to their usual full- or part-time status. In this context, *full-time workers* are those who usually worked 35 hours or more (at all jobs combined). This group will include some individuals who worked less than 35 hours in the reference week for either economic or noneconomic reasons and those who are temporarily absent from work. Similarly, *part-time workers* are those who usually work less than 35 hours per week (at all jobs), regardless of the number of hours worked in the reference week. This may include some individuals who actually worked more than 34 hours in the reference week, as well as those who are temporarily absent from work. The *full-time labor force* includes all employed persons who usually work full time and unemployed persons who are either looking for full-time work or are on layoff from full-time jobs. The *part-time labor force* consists of employed persons who usually work part time and unemployed persons who are seeking or are on layoff from part-time jobs. Unemployment rates for full- and part-time workers are calculated using the concepts of the *full- and part-time labor force*.

*White, black, and other.* These are terms used to describe the race of persons. Included in the “other” group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. Because of the relatively small sample size, data for “other” races are not published. In the enumeration process, race is determined by the household respondent.

*Hispanic origin.* This refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin may be of any race; thus they are included in both the white and black population groups.

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

*Usual weekly earnings.* Data represent earnings before taxes and other deductions, and include any overtime pay, commissions, or tips usually received (at the main job in the case of multiple jobholders.) Earnings reported on a basis other than weekly (e.g., annual, monthly, hourly) are converted to weekly. The term “usual” is as perceived by the respondent. If the respondent asks for a definition of usual, interviewers are instructed to define the term as more than

half the weeks worked during the past 4 or 5 months. Data refer to wage and salary workers (excluding all self-employed persons regardless of whether or not their business’s were incorporated) who usually work full time on their sole or primary job.

*Median earnings.* These figures indicate the value which divides the earnings distribution into two equal parts, one part having values above the median and the other having values below the median. The medians as shown in this publication are calculated by linear interpolation of the \$50 centered interval within which each median falls. Data expressed in constant dollars are deflated by the Consumer Price Index for All Urban Consumers (CPI-U).

*Single, never married; married, spouse present; and other marital status.* These are the terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were living in the same household, even though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent relates to persons who are separated due to marital problems, as well as husbands and wives who are living apart because one or the other was employed elsewhere, on duty with the Armed Forces, or any other reasons.

*Household.* A household consists of all persons—related family members and all unrelated persons—who occupy a housing unit and have no other usual address. A house, an apartment, a group of rooms, or a single room is regarded as a housing unit when occupied or intended for occupancy as separate living quarters. A *householder* is the person (or one of the persons) in whose name the housing unit is owned or rented. The term is never applied to either husbands or wives in married-couple families but relates only to persons in families maintained by either men or women without a spouse.

*Family.* A family is defined as a group of two or more persons residing together who are related by birth, marriage, or adoption; all such persons are considered as members of one family. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent.

## HISTORICAL COMPARABILITY

### Changes in concepts and methods

While current survey concepts and methods are very similar to those introduced at the inception of the survey in 1940, a number of changes have been made over the years to improve the accuracy and usefulness of the data. Some of the most important changes include:

- In 1945, the questionnaire was radically changed with

the introduction of four basic employment questions. Prior to that time, the survey did not contain specific question wording, but rather relied on a complicated scheme of activity prioritization.

- In 1953, the current 4-8-4 rotation system was adopted, whereby households are interviewed for 4 consecutive months, leave the sample for 8 months, and then return to the sample for the same 4 months of the following year. Before this system was introduced, households were interviewed for 6 consecutive months and then replaced. The new system provided some year-to-year overlap in the sample, thereby improving measurement over time.

- In 1955, the survey reference week was changed to the calendar week including the 12th day of the month, for greater consistency with the reference period used for other labor-related statistics. Previously, the calendar week containing the 8th day of the month had been used as the reference week.

- In 1957, the employment definition was modified slightly as a result of a comprehensive interagency review of labor force concepts and methods. Two relatively small groups of persons classified as employed, under "with a job but not at work," were assigned to different classifications. Persons on layoff with definite instructions to return to work within 30 days of the layoff date, and persons volunteering that they were waiting to start a new wage and salary job within 30 days of interview, were, for the most part, reassigned to the unemployed classification. The only exception was the small subgroup in school during the reference week but waiting to start new jobs, which was transferred to not in the labor force.

- In 1967, more substantive changes were made as a result of the recommendations of the President's Committee to Appraise Employment and Unemployment Statistics (the Gordon Committee). The principal improvements were as follows:

- a) A 4-week job search period and specific questions on jobseeking activity were introduced. Previously, the questionnaire was ambiguous as to the time period for jobseeking and there were no specific questions concerning job search methods.

- b) An availability test was introduced whereby a person must be currently available for work in order to be classified as unemployed. Previously, there was no such requirement. This revision to the concept mainly affected students, who, for example, may begin to look for summer jobs in the spring although they will not be available until June or July. Such persons, until 1967, had been classified as unemployed but since have been assigned to the "not in the labor force" category.

- c) Persons "with a job but not at work" because of strikes, bad weather, etc., who volunteered that they were looking for work, were shifted from unemployed status to employed.

- d) The lower age limit for official statistics on employment, unemployment, and other labor force concepts was raised from 14 to 16 years. Historical data for most major series have been revised to provide consistent information based on the new minimum age limit.

- e) New questions were added to obtain additional information on persons not in the labor force, including those referred to as "discouraged workers," defined as persons who indicate that they want a job but are not currently looking because they believe there are no jobs available or none for which they would qualify.

- f) New "probing" questions were added to the questionnaire in order to increase the reliability of information on hours of work, duration of unemployment, and self-employment.

- In 1994, major changes to the Current Population Survey (CPS) were introduced, which included a complete redesign of the questionnaire and the use of computer-assisted interviewing for the entire survey. In addition, there were revisions to some of the labor force concepts and definitions, including the implementation of some changes recommended in 1979 by the National Commission on Employment and Unemployment Statistics (NCEUS, also known as the Levitan Commission). Some of the major changes to the survey were:

- a) The introduction of a redesigned and automated questionnaire. The CPS questionnaire was totally redesigned in order to obtain more accurate, comprehensive, and relevant information, and to take advantage of state-of-the-art computer interviewing techniques.

- b) The addition of two, more objective, criteria to the definition of discouraged workers. Prior to 1994, to be classified as a discouraged worker, a person must have wanted a job and be reported as not currently looking because of a belief that no jobs were available or that there were none for which he or she would qualify. Beginning in 1994, persons classified as discouraged must also have looked for a job within the past year (or since their last job, if they worked during the year), and must have been available for work during the reference week (a direct question on availability was added in 1994; prior to 1994, availability had been inferred from responses to other questions). These changes were made because the NCEUS and others felt that the previous definition of discouraged workers was too subjective, relying mainly on an individual's stated desire for a job and not on prior testing of the labor market.

- c) Similarly, the identification of persons employed part time for economic reasons (working less than 35 hours in the reference week because of poor business conditions or because of an inability to find full-time work) was tightened by adding two new criteria for persons who usually work part time: They must want and be available for full-time work. Previously, such information was inferred. (Per-

sons who usually work full time but worked part time for an economic reason during the reference week are assumed to meet these criteria.)

d) Specific questions were added about the expectation of recall for persons who indicate that they are on layoff. To be classified as “on temporary layoff,” persons must expect to be recalled to their jobs. Previously, the questionnaire did not include explicit questions about the expectation of recall.

e) Persons volunteering that they were waiting to start a new job within 30 days must have looked for work in the 4 weeks prior to the survey in order to be classified as unemployed. Previously, such persons did not have to meet the job search requirement in order to be included among the unemployed.

For additional information on changes in CPS concepts and methods, see *Concepts and Methods used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463, October 1976 and “Overhauling the Current Population Survey—Why is it Necessary to Change?,” “Redesigning the Questionnaire,” and “Evaluating Changes in the Estimates,” *Monthly Labor Review*, September 1993, and “Revisions in the Current Population Survey Effective January 1994,” in the February 1994 issue of this publication.

### **Noncomparability of labor force levels**

In addition to the refinements in concepts, definitions, and methods made over the years, other changes have also affected the comparability of the labor force data.

- Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; other categories were relatively unaffected.

- Beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force. Four-fifths of this increase was in nonagricultural employment; other labor force categories were not appreciably affected.

- Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged.

- Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by about 800,000; labor force and employment totals were raised by a little more than 300,000; unemployment levels and rates were essentially unchanged.

- In March 1973, a subsequent population adjustment based on the 1970 census was introduced. This adjustment,

which affected the white and black-and-other groups but had little effect on totals, resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black-and-other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black-and-other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

- Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in “Revisions in the Current Population Survey in January 1978” in the February 1978 issue of this publication.

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

- Beginning in January 1979, the first-stage ratio adjustment method was changed in the CPS estimation procedure. Differences between the old and new procedures existed only for metropolitan and nonmetropolitan area estimates, not for the total United States. The reasoning behind

the change and an indication of the differences appear in “Revisions in the Current Population Survey in January 1979” in the February 1979 issue of this publication.

- Beginning in January 1982, the second-stage ratio adjustment method was changed. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in “Revisions in the Current Population Survey Beginning in January 1982” in the February 1982 issue of this publication. In addition, current population estimates used in the second-stage estimation procedure were derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in the total population and in the estimates of persons in all labor force categories. Rates for labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used also is described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 (described above), and data users should consider them when comparing estimates from different periods.

- Beginning in January 1983, the first-stage ratio adjustment method was updated to incorporate data from the 1980 census. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in “Revisions in the Current Population Survey Beginning in January 1983” in the February 1983 issue of this publication. There were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

- Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first- and second-stage ratio adjustments, and the composite estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985” in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

- Beginning in January 1986, the population controls used in the second-stage ratio adjustment method were revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of emigrants among legal foreign-born residents for the same time period. As a result, the total civilian population and labor force estimates were raised by nearly 400,000; civilian employment was increased by about 350,000. The Hispanic-origin population and labor

force estimates were raised by about 425,000 and 305,000, respectively, and Hispanic employment by 270,000. Overall and subgroup unemployment levels and rates were not significantly affected. Because of the magnitude of the adjustments for Hispanics, data were revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appear in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986” in the February 1986 issue of this publication.

- Beginning in August 1989, the second-stage ratio estimate cells were changed slightly to decrease the chance of very small cells occurring and to be more consistent with published age, sex, race cells. This change had virtually no effect on national estimates.

- Beginning in January 1994, 1990 census-based population controls, adjusted for the estimated undercount, were introduced into the second stage estimation procedure. This change resulted in substantial increases in total population and in all major labor force categories. Effective February 1996, these controls were introduced into the estimates for 1990-93. Under the new population controls, the civilian noninstitutional population for 1990 increased by about 1.1 million, employment by about 880,000, and unemployment by approximately 175,000. The overall unemployment rate rose by about 0.1 percentage point. For further information, see “Revisions in the Current Population Survey Effective January 1994,” and “Revisions in Household Survey Data Effective February 1996” in the February 1994 and March 1996 issues, respectively, of this publication.

Additionally, for the period January through May 1994, the composite estimation procedure was suspended due to technical and logistical reasons.

- Beginning in January 1997, the population controls used in the second-stage ratio adjustment method were revised to reflect updated information on the demographic characteristics of immigrants to, and emigrants from, the United States. As a result, the civilian noninstitutional population 16 years and over was raised by about 470,000. The labor force and employment levels were increased by about 320,000, and 290,000, respectively. The Hispanic-origin population and labor force estimates were raised by about 450,000 and 250,000 respectively, and Hispanic employment by 325,000. Overall and subgroup unemployment rates and other percentages of labor market participation were not affected. An explanation of the changes and their effect on national labor force estimates appear in “Revisions in the Current Population Survey Effective January 1997” in the February 1997 issue of this publication.

- Beginning in January 1998, new composite estimation procedures and minor revisions in the population controls were introduced into the household survey. The new composite estimation procedures simplify processing of the

monthly labor force data at BLS, allow users of the survey microdata to replicate more easily the official estimates released by BLS, and increase the reliability of the employment and labor force estimates. The new procedures also produce somewhat lower estimates of the civilian labor force and employment and slightly higher estimates of unemployment. For example, based on 1997 annual average data, using old and new composite weights, the differences were as follows: Civilian labor force (-229,000), total employed (-256,000), and total unemployed (+27,000). Unemployment rates were not significantly affected.

Also beginning in January 1998, the population controls used in the survey were revised to reflect new estimates of legal immigration to the U.S. and a change in the method for projecting the emigration of foreign-born legal residents. As a result, the Hispanic-origin population was raised by about 57,000; however, the total civilian noninstitutional population 16 years and over was essentially unchanged. More detailed information on these changes and their effect on the estimates of labor force change and composition appear in "Revisions in the Current Population Survey Effective January 1998," in the February 1998 issue of this publication.

- Beginning in January 1999, the population controls used in the survey were revised to reflect newly updated information on immigration. As a result, the civilian noninstitutional population 16 years and over was raised by about 310,000. The impact of the changes varied for different demographic groups. The civilian noninstitutional population for men 16 years and over was lowered by about 185,000 while that for women was increased by about 490,000. The Hispanic-origin population was lowered by about 165,000 while that of persons of non-Hispanic origin was raised by about 470,000. Overall labor force and employment levels were increased by about 60,000 each while the Hispanic labor and employment estimates were reduced by about 225,000 and 215,000, respectively. The changes had only a small impact on overall and subgroup unemployment rates and other percentages of labor market participation. An explanation of the changes and their effect on national labor force estimates appear in "Revisions in the Current Population Survey Effective January 1999" in the February 1999 issue of this publication.

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

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were

not significantly affected. For a further explanation of the changes in the occupational classification system, see "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of this publication.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. The 1980 census occupational classification system evolved from the Standard Occupational Classification (SOC) system and was so radically different in concepts and nomenclature from the 1970 system that comparisons of historical data are not possible without major adjustments. For example, the 1980 major group "sales occupations" is substantially larger than the 1970 category "sales workers." Major additions include "cashiers" from "clerical workers" and some self-employed proprietors in retail trade establishments from "managers and administrators, except farm."

The industrial classification system used in the 1980 census was based on the 1972 Standard Industrial Classification (SIC) system, as modified in 1977. The adoption of the new system had much less of an adverse effect on historical comparability than did the new occupational system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation," and some interchange between "professional and related services" and "public administration." Additional information on the 1980 census occupational and industrial classification systems appears in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of this publication.

Beginning in January 1992, the occupational and industrial classification systems used in the 1990 census were introduced into the CPS. (These systems were largely based on the 1980 Standard Occupational Classification (SOC) and 1987 Standard Industrial Classification (SIC) systems, respectively.) There were a few breaks in comparability between the 1980 and 1990 census-based systems, particularly within the "technical, sales, and administrative support" categories. The most notable changes in industry classification were the shift of several industries from "business services" to "professional services" and the splitting of some industries into smaller, more detailed categories. A number of industry titles were changed as well, with no change in content.

### **Sampling**

Since the inception of the survey, there have been various changes in the design of the CPS sample. The sample is traditionally redesigned and a new sample selected after each decennial census. Also, the number of sample areas and the number of sample persons are changed occasionally. Most of these changes are made in order to improve the efficiency of the sample design, increase the reliability of the sample estimates, or control cost.

Changes in this regard since 1960 are as follows: When

Alaska and Hawaii received statehood in 1959 and 1960, respectively, three sample areas were added to the existing sample to account for the population of these States. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia, was designed to provide more reliable annual average estimates for States. In October 1978, a coverage improvement sample of approximately 450 sample household units representing 237,000 occupied mobile homes and 600,000 new construction housing units was added. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added. A sample reduction of about 6,000 units was implemented in May 1981. In January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to the Standard Metropolitan Statistical Areas (SMSA's), which were redefined in 1973. In January 1985, a new State-based CPS sample was selected based on 1980 census information. A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8-month period, April-November 1989. A redesigned CPS sample based on the 1990 decennial census was selected for use during the 1990's. Households from this new sample were phased into the CPS between April 1994 and July 1995. The July 1995 sample was the first monthly sample based entirely on the 1990 census. For further information on the 1990 sample redesign, see "Redesign of the Sample for the Current Population Survey" in the May 1994 issue of this publication.

The original 1990 census-based sample design included about 66,000 housing units per month located in 792 selected geographic areas called primary sampling units (PSU's). The sample was initially selected to meet specific reliability criteria for the Nation, for each of the 50 States and the District of Columbia, and for the sub-State areas of New York City and the Los Angeles-Long Beach metropolitan area. In 1996, the original sample design reliability criteria were modified to reduce costs. The current criteria, given below, are based on the coefficient of variation (CV) of the unemployment level, where the CV is defined as the standard error of the estimate divided by the estimate, expressed as a percentage. These CV controls assume a 6-percent unemployment rate to establish a consistent specification of sampling error.

The current sample design, introduced in January 1996, includes about 59,000 households from 754 sample areas and maintains a 1.9-percent CV on national monthly estimates of unemployment level. This translates into a change of 0.2 percentage point in the unemployment rate being significant at a 90-percent confidence level. For each of the fifty States and for the District of Columbia, the design maintains a CV of at most 8-percent on the annual average estimate of unemployment level, assuming a 6-percent unemployment rate. Due to the national reliability criterion, estimates for several large States are substantially more reliable than the State design criterion requires. Annual average unemploy-

ment estimates for California, Florida, New York, and Texas, for example, carry a CV of less than 4 percent.

In the first stage of sampling, the 754 sample areas are chosen. In the second stage, ultimate sampling unit clusters composed of about four housing units each are selected. Each month, about 59,000 housing units are assigned for data collection, of which about 50,000 are occupied and thus eligible for interview. The remainder are units found to be destroyed, vacant, converted to nonresidential use, containing persons whose usual place of residence is elsewhere, or ineligible for other reasons. Of the 50,000 housing units, about 6.5 percent are not interviewed in a given month due to temporary absence (vacation, etc.), other failures to make contact after repeated attempts, inability of persons contacted to respond, unavailability for other reasons, and refusals to cooperate (about half of the noninterviews). Information is obtained each month for about 94,000 persons 16 years of age or older.

*Selection of sample areas.* The entire area of the United States, consisting of 3,141 counties and independent cities, is divided into 2,007 sample units (PSU's). In most States, a PSU consists of a county or a number of contiguous counties. In New England and Hawaii, minor civil divisions are used instead of counties.

Metropolitan areas within a State are used as a basis for forming PSU's. Outside of metropolitan areas, counties normally are combined except when the geographic area of an individual county is too large. Combining counties to form PSU's provides greater heterogeneity; a typical PSU includes urban and rural residents of both high and low economic levels and encompasses, to the extent feasible, diverse occupations and industries. Another important consideration is that the PSU be sufficiently compact so that, with a small sample spread throughout, it can be efficiently canvassed without undue travel cost.

The 2,007 PSU's are grouped into strata within each State. Then one PSU is selected from each stratum with the probability of selection proportional to the population of the PSU. Nationally, there are a total of 428 PSU's in strata by themselves. These strata are self-representing and are generally the most populous PSU's in each State. The 326 remaining strata are formed by combining PSU's that are similar in such characteristics as unemployment, proportion of housing units with three or more persons, number of persons employed in various industries, and average monthly wages for various industries. The single PSU randomly selected from each of these strata is non-self-representing because it represents not only itself but the entire stratum. The probability of selecting a particular PSU in a non-self-representing stratum is proportional to its 1990 population. For example, within a stratum, the chance that a PSU with a population of 50,000 would be selected for the sample is twice that for a PSU having a population of 25,000.

*Selection of sample households.* Because the sample design is State based, the sampling ratio differs by State and



depends on State population size as well as both national and State reliability requirements. The State sampling ratios range roughly from 1 in every 100 households to 1 in every 3,000 households. The sampling ratio occasionally is modified slightly to hold the size of the sample relatively constant given the overall growth of the population. The sampling ratio used within a sample PSU depends on the probability of selection of the PSU and the sampling ratio for the State. In a sample PSU with a probability of selection of 1 in 10 and a State sampling ratio of 3,000, a within-PSU sampling ratio of 1 in 300 achieves the desired ratio of 1 in 3,000 for the stratum.

The 1990 within-PSU sample design was developed using block-level data from the 1990 census. (The 1990 census was the first decennial census that produced data at the block level for the entire country.) Normally, census blocks are bounded by streets and other prominent physical features such as rivers or railroad tracks. County, Minor Civil Division, and census place limits also serve as block boundaries. In cities, blocks can be bounded by four streets and be quite small in land area. In rural areas, blocks can be several square miles in size.

For the purpose of sample selection, census blocks were grouped into three strata: Unit, group quarters, and area. (Occasionally, units within a block were split between the unit and group quarters strata.) The unit stratum contained regular housing units with addresses that were easy to locate (e.g. most single family homes, townhouses, condominiums, apartment units, and mobil homes). The group quarters stratum contained housing units where residents shared common facilities or received formal or authorized care or custody. Unit and group quarters blocks exist primarily in urban areas. The area stratum contains blocks with addresses that are more difficult to locate. Area blocks exist primarily in rural areas.

To reduce the variability of the survey estimates and to ensure that the within-PSU sample would reflect the demographic and socioeconomic characteristics of the PSU, blocks within the unit, group quarters, and area strata were sorted using geographic and block-level data from the census. Examples of the census variables used for sorting include proportion of minority renter-occupied housing units, proportion of housing units with female householders, and proportion of owner-occupied housing units. The specific sorting variables used differed by type of PSU (urban or rural) and stratum.

Within each block, housing units were sorted geographically and grouped into clusters of approximately four units. A systematic sample of these clusters was then selected independently from each stratum using the appropriate within-PSU sampling ratio. The geographic clustering of the sample units reduces field representative travel costs. Prior to interviewing, special listing procedures are used to locate the particular sample addresses in the group quarters and area blocks.

Units in the three strata described above all existed at the time of the 1990 decennial census. Through a series of ad-

ditional procedures, a sample of building permits is included in the CPS to represent housing units built after the decennial census. Adding these newly built units keeps the sample up-to-date and representative of the population. It also helps to keep the sample size stable: over the life of the sample, the addition of newly built housing units compensates for the loss of "old" units which may be abandoned, demolished, or converted to nonresidential use.

*Rotation of sample.* Part of the sample is changed each month. Each monthly sample is divided into eight representative subsamples or rotation groups. A given rotation group is interviewed for a total of 8 months, divided into two equal periods. It is in the sample for 4 consecutive months, leaves the sample during the following 8 months, and then returns for another 4 consecutive months. In each monthly sample, one of the eight rotation groups is in the first month of enumeration, another rotation group is in the second month, and so on. Under this system, 75 percent of the sample is common from month to month and 50 percent from year to year for the same month. This procedure provides a substantial amount of month-to-month and year-to-year overlap in the sample, thus providing better estimates of change and reducing discontinuities in the series of data without burdening any specific group of households with an unduly long period of inquiry.

*CPS sample, 1947 to present.* Table 1-A provides a description of some aspects of the CPS sample designs in use since 1947. A more detailed account of the history of the CPS sample design appears in *The Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, or *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, Report 463, Bureau of Labor Statistics. A description of the 1990 census-based sample design appears in "Redesign of the Sample for the Current Population Survey," in the May 1994 issue of this publication.

## ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The estimation procedure involves weighting the data from each sample person by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Since 1985, most sample persons within the same State have had the same probability of selection. Some selection probabilities may differ within a State due to the sample design or for operational reasons. Field subsampling, for example, which is carried out when areas selected for the sample are found to contain many more households than expected, may cause probabilities of selection to differ for some sample areas within a State. Through a series of estimation steps (outlined below), the selection probabilities are adjusted for noninterviews and survey undercoverage;

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954 .....	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956 .....	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959 .....	1,330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	2,333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966 .....	357	33,500	1,500	6,000
Jan. 1967 to July 1971 .....	449	48,000	2,000	8,500
Aug. 1971 to July 1972 .....	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977 .....	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979 .....	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981 .....	629	62,200	2,800	12,000
May 1981 to Dec. 1984 .....	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988 .....	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989 .....	729	53,200	2,600	11,500
April 1989 to Oct. 1994 <sup>3</sup> .....	729	57,400	2,600	11,800
Nov. 1994 to Aug. 1995 <sup>4</sup> .....	792	54,500	3,500	10,000
Sept. 1995 to Dec. 1995 .....	792	52,900	3,400	9,700
Jan. 1996 to present .....	754	46,800	3,200	9,000

<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.

<sup>3</sup> The sample was increased incrementally during the 8-month period, April-November 1989.

<sup>4</sup> Includes 2,000 additional assigned housing units from Georgia and Virginia that were gradually phased in during the 10-month period, October 1994-August 1995.

data from previous months are incorporated into the estimates through the composite estimation procedure.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately for clusters of similar sample areas that are usually, but not necessarily, contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within each cluster, there is a further breakdown by residence. Each MSA cluster is split by "central city" and "balance of the MSA." Each non-MSA cluster is split by "urban" and "rural" residence categories. The proportion of sample households not interviewed varies from 6 to 7 percent, depending on weather, vacation, etc.

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

a. *First-stage ratio estimation.* The purpose of the first-stage ratio adjustment is to reduce the contribution to variance that results from selecting a sample of PSU's rather

than drawing sample households from every PSU in the Nation. This adjustment is made to the CPS weights in two race cells: Black and nonblack; it is applied only to PSU's that are not self-representing and for those States that have a substantial number of black households. The procedure corrects for differences that existed in each State cell at the time of the 1990 census between 1) the race distribution of the population in sample PSU's and 2) the race distribution of all PSU's (both 1 and 2 exclude self-representing PSU's).

b. *Second-stage ratio estimation.* This procedure substantially reduces the variability of estimates and corrects, to some extent, for CPS undercoverage. The CPS sample weights are adjusted to ensure that sample-based estimates of population match independent population controls. Three sets of controls are used:

1) 51 State controls of the civilian noninstitutional population 16 years of age and older,

2) National civilian noninstitutional population controls for 14 Hispanic and 5 non-Hispanic age-sex categories,

3) National civilian noninstitutional population controls for 66 white, 42 black, and 10 "other" age-sex categories.

The independent population controls are prepared by projecting forward the resident population as enumerated on April 1, 1990. The projections are derived by updating demographic census data with information from a variety of other data sources that account for births, deaths, and net migration. Estimated numbers of resident Armed Forces per-

sonnel and institutionalized persons reduce the resident population to the civilian noninstitutional population. Estimates of net census undercount, determined from the Post Enumeration Survey, are added to the population projections. Prior to January 1994, the projections were based on earlier censuses, and there was no correction for census undercount. A summary of the current procedures used to make population projections is given in "Revisions in the Current Population Survey Effective January 1994," appearing in the February 1994 issue of this publication.

3. *Composite estimation procedure.* The last step in the preparation of most CPS estimates makes use of a composite estimation procedure. The composite estimate consists of a weighted average of two factors: The two-stage ratio estimate based on the entire sample from the current month and the composite estimate for the previous month, plus an estimate of the month-to-month change based on the six rotation groups common to both months. In addition, a bias adjustment term is added to the weighted average to account for relative bias associated with month-in-sample estimates. This month-in-sample bias is exhibited by unemployment estimates for persons in their first and fifth months in the CPS being generally higher than estimates obtained for the other months.

The composite estimate results in a reduction in the sampling error beyond that which is achieved after the two stages of ratio adjustment. For some items, the reduction is substantial. The resultant gains in reliability are greatest in estimates of month-to-month change, although gains are also usually obtained for estimates of level in a given month, change from year to year, and change over other intervals of time.

### **Rounding of estimates**

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

### **Reliability of the estimates**

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

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

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

Nonsampling errors occurring in the interview phase of the survey are studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in *The Current Population Survey Reinterview Program, January 1961 through December 1966*, Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.

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

Undercoverage in the CPS results from missed housing units and missed persons within sample households. The CPS covers about 92 percent of the decennial census population (adjusted for census undercount). It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women and larger for blacks, Hispanics, and other races than for whites. Ratio adjustment to independent age-sex-race-origin population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race-origin group.

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

sources of errors and describes attempts to measure them in the CPS.

*Sampling error.* When a sample rather than the entire population is surveyed, estimates differ from the true population values that they represent. This difference, or sampling error, occurs by chance, and its variability is measured by the standard error of the estimate. Sample estimates from a given survey design are unbiased when an average of the estimates from all possible samples would yield, hypothetically, the true population value. In this case, the sample estimate and its standard error can be used to construct approximate confidence intervals, or ranges of values, that include the true population value with known probabilities. If the process of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the true population value.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the true population value.
3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the true population value.

Although the estimating methods used in the CPS do not produce unbiased estimates, biases for most estimates are believed to be small enough so that these confidence interval statements are approximately true.

Since it would be too costly to develop standard errors for all CPS estimates, generalized variance function techniques are used to calculate sets of standard errors for various types of labor force characteristics. It is important to keep in mind that standard errors computed from these methods reflect contributions from sampling errors and some kinds of nonsampling errors and indicate the general magnitude of an estimate's standard error rather than its precise value.

The generalized variance functions and standard errors provided here are based on the sample design and estimation procedures as of 1987 and have been adjusted to reflect the population levels and sample size as of 1996. Standard errors for years prior to 1996 may be roughly approximated by adjusting, as follows, the standard errors presented here.

1. For the years 1967 through 1995, multiply the standard errors by 0.96.
2. For the years 1956 through 1966, multiply the standard errors by 1.17.
3. For years prior to 1956, multiply the standard errors by 1.44.

**Table 1-B. Standard errors for major employment status categories**

(In thousands)

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

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

Tables 1-B through 1-H are provided so that approximate standard errors of estimates can be easily obtained. These tables are briefly summarized here; details illustrating the proper use of each table follow.

Tables 1-B and 1-C show standard errors for estimated monthly levels and rates for selected employment status characteristics; these tables also provide standard errors for consecutive month-to-month changes in the estimates. These standard errors are based on levels of recent estimates and can be determined directly by finding the characteristic of interest.

Tables 1-D and 1-E show standard errors for monthly levels and consecutive monthly changes in levels for general employment status characteristics. The standard errors are

**Table 1-C. Standard errors for unemployment rates by major characteristics**

Characteristic	Monthly level	Consecutive-month change
Total, 16 years and over .....	0.11	0.13
Men, 16 years and over .....	.15	.18
Men, 20 years and over .....	.14	.17
Women, 16 years and over .....	.16	.19
Women, 20 years and over .....	.16	.19
Both sexes, 16 to 19 years .....	.74	.97
White workers .....	.11	.13
Black workers .....	.45	.53
Hispanic-origin workers .....	.50	.59
Married men, spouse present .....	.15	.18
Married women, spouse present .....	.18	.22
Women who maintain families .....	.54	.64
<b>Occupation</b>		
Executive, administrative, and managerial ...	.20	.24
Professional specialty .....	.20	.23
Technicians and related support .....	.45	.54
Sales .....	.30	.36
Administrative support, including clerical .....	.25	.30
Private household .....	1.75	2.08
Protective service .....	.67	.80
Service, except private household and protective service .....	.38	.45
Precision production, craft, and repair .....	.34	.40
Machine operators, assemblers, and inspectors .....	.49	.58
Transportation and material moving .....	.55	.66
Handlers, equipment cleaners, helpers, and laborers .....	.73	.87
Farming, forestry, and fishing .....	.73	.87
<b>Industry</b>		
Nonagricultural private wage and salary workers .....	.13	.15
Goods-producing industries .....	.25	.30
Mining .....	1.39	1.65
Construction .....	.68	.81
Manufacturing .....	.26	.31
Durable goods .....	.32	.38
Nondurable goods .....	.42	.50
Service-producing industries .....	.15	.18
Transportation, communications, and public utilities .....	.42	.50
Wholesale and retail trade .....	.27	.32
Finance and services .....	.19	.23
Government workers .....	.21	.25
Agricultural wage and salary workers .....	1.18	1.40

calculated using linear interpolation based on the size of the monthly estimates.

Tables 1-F and 1-G give parameters that can be used with formulas to calculate a standard error on nearly any specified level, unemployment rate, percentage, or consecutive month-to-month change. For monthly levels and consecutive month-to-month changes in levels, tables 1-F and 1-G are preferred to tables 1-D and 1-E, since the formulas provide more accurate results than linear interpolation.

Table 1-H presents factors used to convert standard errors of monthly levels and rates determined from tables 1-B, 1-C, 1-D, and 1-F to standard errors pertaining to quar-

terly and yearly averages, consecutive year-to-year changes of monthly estimates, and changes in quarterly and yearly averages.

The standard errors for estimated changes from 1 month to the next, 1 year to the next, etc., depend more on the monthly levels for characteristics than on the size of the changes. Accordingly, tables 1-E, 1-G, and 1-H use monthly levels (not the magnitude of the changes) for approximating standard errors of change. Standard errors for estimated change between nonconsecutive months are not provided (except for year-to-year change); however, these may be assumed to be higher than the standard errors for consecutive monthly change.

*Use of tables 1-B and 1-C.* These tables provide a quick reference for standard errors of major characteristics. Table 1-B gives approximate standard errors for estimates of monthly levels and consecutive month-to-month changes in levels for major employment status categories. Table 1-C gives approximate standard errors for estimates of monthly unemployment rates and consecutive month-to-month changes in unemployment rates for some demographic, industrial, and occupational categories. For characteristics not given in tables 1-B and 1-C, refer to either tables 1-D and 1-E or tables 1-F and 1-G.

*Illustration.* Suppose that for a given month the number of women 20 years and over in the civilian labor force is estimated to be 54,000,000. For this characteristic, the approximate standard error of 219,000 is given in table 1-B in the row, "Total, 16 years and over: Women, 20 years and over: Civilian labor force." A 90-percent confidence interval, as shown by these data, would then be the interval from 53,650,000 to 54,350,000. Concluding that the true labor force level lies within this interval would be correct for roughly 90 percent of all possible samples.

*Use of tables 1-D and 1-E.* From these tables, approximate standard errors can be calculated for estimates of monthly levels and month-to-month changes in levels for major labor force characteristics by race and Hispanic origin. For major categories not shown, such as male or female, tables 1-F and 1-G can be used. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. For table 1-E, which applies to estimates of consecutive month-to-month change, the average of the two monthly levels (not the change) is used to select the appropriate row in the table.

*Illustration.* Assume that between 2 consecutive months the estimated number of employed persons changed from 115,600,000 to 116,700,000, an apparent increase of 1,100,000. The approximate standard error on this month-to-month change estimate is based on the average level of the estimate for the 2 months, 116,150,000. Using the

**Table 1-D. Standard errors for estimates of monthly levels**  
(In thousands)

Estimated monthly level	Characteristic									
	Agricultural employment		Unemployment			Labor force data other than agricultural employment and unemployment				
	Total or white	Black	Total or white	Black	Hispanic origin	Total	White	Black	Hispanic origin	
									Employed	Civilian labor force or not in labor force
50 .....	12	13	12	13	13	12	12	13	14	14
100 .....	18	18	17	18	19	17	17	18	20	20
500 .....	41	39	38	39	42	39	39	39	44	44
1,000 .....	62	55	54	54	59	54	54	55	61	61
2,000 .....	96	76	76	74	82	77	77	76	83	83
4,000 .....	157		107	96	113	108	108	103	111	111
6,000 .....	216		131	106		131	131	120	126	126
8,000 .....	273		150	108		151	150	131	134	134
10,000 .....	330		167	101		168	167	137	135	135
15,000 .....			201			202	201	137	110	110
20,000 .....			228			229	227	113		
30,000 .....						271	267			
40,000 .....						302	296			
50,000 .....						324	315			
60,000 .....						340	327			
70,000 .....						350	333			
80,000 .....						354	333			
100,000 .....						349	313			
120,000 .....						322	264			
140,000 .....						267	159			
160,000 .....										
180,000 .....										

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

Estimated monthly level	Characteristic									
	Agricultural employment		Unemployment			Labor force data other than agricultural employment and unemployment				
	Total or white	Black	Total or white	Black	Hispanic origin	Total	White	Black	Hispanic origin	
									Employed	Civilian labor force or not in labor force
50 .....	14	12	14	15	16	10	10	10	12	10
100 .....	19	17	20	21	22	14	14	15	17	14
500 .....	43	37	46	46	50	32	32	33	37	31
1,000 .....	59	52	64	63	69	45	45	45	51	43
2,000 .....	78	72	89	84	95	63	63	62	70	59
4,000 .....	95		124	104	127	88	88	84	93	78
6,000 .....	94		148	106		108	108	97	105	89
8,000 .....	73		166	92		123	123	104	110	94
10,000 .....			180	47		137	137	108	110	95
15,000 .....			204			165	165	100	79	76
20,000 .....			215			187	187	58		
30,000 .....						221	221			
40,000 .....						245	245			
50,000 .....						262	262			
60,000 .....						274	274			
70,000 .....						281	281			
80,000 .....						283	283			
100,000 .....						274	274			
120,000 .....						246	246			
140,000 .....						188	188			
160,000 .....										
180,000 .....										

table 1-E column titled "Labor force data other than agricultural employment and unemployment, Total," it is necessary to find the standard errors corresponding to the two monthly level entries between which the value 116,150,000 lies. The standard error corresponding to 100,000,000 is given as 274,000, and the standard error corresponding to 120,000,000 is given as 246,000. Use linear interpolation to find the approximate standard error on month-to-month change corresponding to the level 116,150,000; one method of calculation is given below.

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

Thus, a 90-percent confidence interval for the true month-to-month change would be approximately the interval from 698,000 to 1,502,000.

*Use of tables 1-F and 1-G.* These tables can be used to find approximate standard errors for a wide range of estimated monthly levels, proportions, rates, and estimates of consecutive monthly change. Instead of displaying standard errors, these tables provide parameters to be used with the formulas given below that allow the user to calculate standard errors.

Table 1-G, which applies to estimates of consecutive monthly change, lists parameters for some characteristics classified by a measure of correlation between monthly estimates. Estimates of the number of persons employed full time, for example, change relatively little from one month to the next, and the two monthly estimates are said to be highly correlated. Consecutive monthly estimates of part-time employment, by contrast, have low correlation, since these estimates are relatively volatile.

Major characteristics for which consecutive monthly estimates are known to have high or low correlation are indicated in table 1-G. Not all categories in table 1-G, however, are broken down into low or high correlation characteristics. When high or low correlation is not specified in table 1-G, the parameters in table 1-G should be selected from the rows labeled "Most characteristics" or from rows not specifying correlation.

*Standard errors of estimated levels.* The approximate standard error,  $s_x$ , of an estimated monthly level,  $x$ , can be obtained using the formula below, where  $a$  and  $b$  are the parameters from table 1-F associated with the particular characteristic. The same formula can be used to approximate the standard error of an estimated month-to-month change in level; simply average the levels for the 2 consecutive months and use the parameters from table 1-G.

$$s_x = \sqrt{ax^2 + bx}$$

*Illustration.* Assume that in a given month there are an estimated 6 million unemployed men in the civilian labor force

( $x = 6,000,000$ ). Obtain the appropriate  $a$  and  $b$  parameters from table 1-F ("Unemployment: Total or white"). Use the formula to compute an approximate standard error on the estimate of 6,000,000.

$$a = -0.000017962 \quad b = 2957.13$$

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

Suppose that in the next month the estimated number of unemployed men increases by 200,000 to 6,200,000. The average of the monthly levels is  $x = 6,100,000$ . Obtain the appropriate  $a$  and  $b$  parameters from table 1-G ("Unemployment: Total or white, Total, men, women"). Use the formula to compute an approximate standard error on the estimated change of 200,000.

$$a = -0.000093662 \quad b = 4191.84$$

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

An approximate 90-percent confidence interval for the true month-to-month change would be the interval from -38,000 to 438,000. Because this interval covers zero, one cannot assert at this level of confidence that any real change has occurred in the unemployment level. This result can also be expressed by saying that the apparent change of 200,000 is not significant at a 90-percent confidence level.

*Standard errors of estimated percentages and rates.* Generally, percentages and rates are not published unless the monthly base (denominator) is greater than 75,000 persons, the quarterly average base is greater than 1,000 persons, or the annual average base is greater than 35,000 persons.

The reliability of an estimated percentage or rate depends upon the magnitude of the percentage or rate and its base. When the numerator and base are in different categories, use the parameters from table 1-F or 1-G relevant to the numerator. The approximate standard error,  $s_{y,p}$ , of an estimated percentage or rate,  $p$ , can be obtained using the following formula, where  $y$  is the estimated number of persons in the base.

$$s_{y,p} = \sqrt{\frac{b}{y} p(100 - p)}$$

*Illustration.* For a given month, suppose that 5,600,000 women, 20 to 24 years of age, are estimated to be employed. Of this total, 1,800,000 or 32 percent are classified as part-time workers. To estimate the standard error on this percentage, proceed as follows. Obtain the parameter  $b = 2529.99$  from table 1-F ("Labor force and not-in-labor-force

**Table 1-F. Parameters for computation of standard errors for estimates of monthly levels**

Characteristic	a	b
<b>Labor force and not-in-labor-force data other than agricultural employment and unemployment:</b>		
Total <sup>1</sup> .....	-0.000017682	2985.26
Men <sup>1</sup> .....	-0.000032770	2764.05
Women .....	-0.000029553	2529.99
Both sexes, 16 to 19 years .....	-0.000171805	2544.62
White <sup>1</sup> .....	-0.000020028	2984.72
Men .....	-0.000036840	2766.67
Women .....	-0.000033710	2526.82
Both sexes, 16 to 19 years .....	-0.000204195	2549.88
Black .....	-0.000125300	3139.26
Men .....	-0.000302096	2930.79
Women .....	-0.000182509	2637.41
Both sexes, 16 to 19 years .....	-0.001294516	2949.48
Hispanic origin .....	-0.000206380	3895.71
Not in labor force, total or white, excluding women and 16-to-19 year olds .....	.000005931	828.79
<b>Agricultural employment:</b>		
Total or white .....	.000782035	3048.57
Men .....	.000858136	2825.09
Women or both sexes, 16 to 19 years .....	-.000024885	2582.39
Black .....	-.000134884	3154.76
Hispanic origin:		
Total or women .....	.011857446	2894.85
Men or both sexes, 16 to 19 years .....	.015736341	1702.50
<b>Unemployment:</b>		
Total or white .....	-0.000017962	2957.13
Black .....	-0.000212109	3149.77
Hispanic origin .....	-0.000101820	3576.47

<sup>1</sup> Excludes not-in-labor-force data.

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

$$s_{y,p} = \sqrt{\frac{2529.99}{5,600,000}(32)(100-32)} \doteq 1.0 \text{ percent}$$

Suppose that in the next month 5,700,000 women in this same age group are reported employed and that 1,950,000 or 34 percent are part-time workers. To estimate the standard error on the observed month-to-month change of 2 percentage points, first average the values for p and y over the 2 months to get p = 33 percent and y = 5,650,000. Next, obtain the parameter b = 2690.59 from table 1-G (“Labor force and not-in-labor-force data other than agricultural employment and unemployment: Total or white, Women: Low correlation characteristics”) and apply the formula as follows.

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

It should be noted that the numerator of the percentage (part-time employed) determined the choice of correlation. If the example had illustrated percentages of women employed full time, the numerator would have been a high correlation characteristic. Table 1-G, however, does not explicitly list high correlation parameters for employed women; thus, the row labeled “Women, Most characteristics” would have been used.

Had the example dealt with teenage women employed part time, either of two rows in table 1-G could have been applied (“Women: Low correlation characteristics” or “Both sexes, 16 to 19 years”). In situations like this, where it is not clear which row applies, a general rule to follow is to choose the row with the largest b parameter. This gives a more conservative estimate of standard error.

*Use of table 1-H.* Use this table with table 1-B, 1-C, 1-D, or 1-F to calculate approximate standard errors for quarterly or yearly averages, changes in consecutive quarterly or yearly averages, and consecutive year-to-year changes in monthly estimates. Table 1-H gives factors that can be used to convert standard errors for monthly levels into standard errors for other time periods and changes over time. Follow these three basic steps:

**Step 1.** Average estimates appropriately. For quarterly estimates, average the 3 monthly estimates. For yearly estimates, average the 12 monthly estimates. For changes in consecutive averages, average over the 2 quarters or 2 years. For consecutive year-to-year changes in monthly estimates, average the 2 months involved.

**Step 2.** Obtain a standard error on a monthly estimate using table 1-B or 1-C, or apply the procedures for table 1-D or 1-F to the average calculated in step 1, as if the average were an estimate for a single month.

**Step 3.** Determine the standard error on the average or on the estimate of change. Multiply the result from step 2 by the appropriate factor from table 1-H.

*Illustration.* Suppose that standard errors are desired for a quarterly average of black employment levels and for the change in averages from 1 quarter to the next. For each successive month of the first quarter, suppose the levels are observed to be 11,500,000, 11,600,000, and 11,700,000.

**Step 1.** The quarterly average is 11,600,000.

**Step 2.** Obtain the a and b parameters from table 1-F (“Labor force and not-in-labor-force data other than agricultural employment and unemployment: Black”). Use the



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

Characteristic	a	b
<b>Labor force and not-in-labor-force data other than agricultural employment and unemployment:</b>		
Total or white:		
Most characteristics .....	-0.000012482	2001.12
High correlation characteristics <sup>1</sup> .....	-.000009288	1564.84
Low correlation characteristics <sup>1</sup> .....	-.000016162	2550.56
Men:		
Most characteristics .....	-.000022599	1921.13
High correlation characteristics .....	-.000016814	1500.99
Low correlation characteristics .....	-.000058387	2668.56
Women:		
Most characteristics .....	-.000021229	1689.99
Low correlation characteristics .....	-.000059785	2690.59
Both sexes, 16 to 19 years .....	-.000186555	2616.54
Black:		
Most characteristics .....	-.000098960	2147.36
Low correlation characteristics .....	-.001928030	6513.82
Men:		
Most characteristics .....	-.000234427	2280.03
Low correlation characteristics .....	-.002881467	5829.60
Women:		
Most characteristics .....	-.000156363	1860.78
Low correlation characteristics .....	-.002311407	5420.13
Both sexes, 16 to 19 years .....	-.001288452	3131.77
Hispanic origin:		
Total .....	-.000157201	2774.53
Civilian labor force and not in labor force .....	-.000102898	1930.51
Low correlation characteristics .....	-.002624078	8620.43
Men, civilian labor force and not in labor force .....	-.000248038	2347.42
Men, 16 years and over; 20 years and over; and both sexes, 16 to 19 years .....	-.000398909	3615.62
Women, 16 years and over and 20 years and over .....	-.000338741	2569.69
<b>Agricultural employment:</b>		
Total or white:		
Total .....	-.000395757	3838.04
Men .....	-.000672985	3959.25
Women or both sexes, 16 to 19 years .....	.000130289	2367.00
Black:		
Total or women .....	-.000122355	2861.72
Men or both sexes, 16 to 19 years .....	-.019110769	5876.77
Hispanic origin:		
Total or women .....	.002872129	4640.81
Men or both sexes, 16 to 19 years .....	.002884390	4028.10
Self-employed .....	-.000245791	2091.57
<b>Unemployment:<sup>2</sup></b>		
Total or white:		
Total, men, women .....	-.000093662	4191.84
Both sexes, 16 to 19 years and low correlation characteristics .....	-.000071624	5121.75
Black:		
Total, men, women, and both sexes, 16 to 19 years .....	-.000414217	4361.16
High correlation characteristics .....	.000048170	3088.91
Hispanic origin:		
Total, men, women .....	-.000252897	5054.25
Both sexes, 16 to 19 years and low correlation characteristics .....	-.000996431	7037.75

<sup>1</sup> High correlation characteristics include employed full-time, manufacturing, service workers, and not in the labor force. Low correlation characteristics include all part-time workers; employed, with a job, but not at work; unpaid family workers; and precision production, craft, and repair occupations.

<sup>2</sup> High correlation characteristics include full-time jobseekers; job losers; manufacturing workers; and operators, fabricators, and laborers. Low correlation characteristics include part-time jobseekers, reentrants, persons unemployed for less than 5 weeks and from 5 to 14 weeks.

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

$$a = -0.000125300 \quad b = 3139.26$$

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

Step 3. Multiply this result by the factor .87 from table 1-H (column labeled "Quarterly averages" and row labeled "Labor force and not-in-labor-force data other than agricultural employment and unemployment, Black"). This gives an approximate standard error of 122,000 on the quarterly average of 11,600,000.

Proceed to obtain the approximate standard error on the change in consecutive quarterly average estimates of black employment. Assume that black employment estimates for the months in the second quarter are observed to be 11,100,000, 11,200,000, and 11,300,000.

Step 1. The average for the second quarter is 11,200,000. The average of the 2 quarters is 11,400,000.

Step 2. Obtain the a and b parameters as above and use the formula for  $s_x$  to compute an approximate standard error for the estimate of 11,400,000, treating it as an estimate for a single month.

$$S_x = \sqrt{(-0.000125300)(11,400,000)^2 + (3139.26)(11,400,000)} \doteq 140,000$$

Step 3. Multiply this result by the factor .84 from table 1-H (column labeled "Change in quarterly averages" and row labeled "Labor force and not-in-labor-force data other than agricultural employment and unemployment, Black"). This gives an approximate standard error of 118,000 on the estimated change of 400,000 from one quarter to the next.

The estimated change clearly exceeds 2 standard errors; therefore, one could conclude from these data that the change in quarterly averages is significant.

**Table 1-H. Factors to be used with tables 1-B, 1-C, 1-D, and 1-F to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages, and change in yearly averages**

Characteristic	Factor				
	Year-to year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men .....	1.30	0.92	0.70	0.79	0.70
Women .....	1.30	.82	.84	.57	.70
Both sexes, 16 to 19 years .....	1.30	.78	.88	.49	.70
Part time .....	1.40	.80	.80	.59	.70
Unemployment:					
Total .....	1.40	.74	.88	.46	.65
Part time .....	1.40	.67	.88	.42	.54
Labor force and not-in-labor-force data other than agricultural employment and unemployment:					
Total or white .....	1.30	.87	.85	.65	.70
Black .....	1.30	.87	.84	.65	.70
Hispanic origin .....	1.30	.87	.80	.65	.70
Both sexes, 16 to 19 years .....	1.30	.79	.88	.54	.70
Part time .....	1.40	.82	.90	.51	.60

# Establishment Data ("B" tables)

## COLLECTION

BLS cooperates with State employment security agencies in the Current Employment Statistics (CES) or establishment survey to collect data each month on employment, hours, and earnings from a sample of nonfarm establishments (including government). This sample includes about 390,000 reporting units. From these data, a large number of employment, hours, and earnings series in considerable industry and geographic detail are prepared and published each month. Historical statistics are available on the Internet at: <http://stats.bls.gov>

Each month, the State agencies collect data on employment, payrolls, and paid hours from a sample of establishments. Data are collected by mail from most respondents; phone collection is used to obtain higher response rates from selected respondents through computer-assisted interviews, touch-tone self-response, and voice recognition technology.

The respondents extract the requested data from their payroll records, which must be maintained for a variety of tax and accounting purposes. All firms with 250 employees or more are asked to participate in the survey, as well as a sample of smaller firms.

A "shuttle" schedule (BLS form 790 series) is used for mail respondents. It is submitted each month by the respondents, edited by the State agency, and returned to the respondent for use again the following month.

The technical characteristics of the shuttle schedule are particularly important in maintaining continuity and consistency in reporting from month to month. The shuttle design automatically exhibits the trends of the reported data covered by the schedule during the year; therefore, the relationship of the current data to the data for the previous months is shown. The schedule also has operational advantages. For example, accuracy and economy are achieved by entering the identification codes and the address of the reporter only once a year.

All schedules are edited by the State agencies each month to make sure that the data are correctly reported and that they are consistent with the data reported by the establishment in earlier months and with the data reported by other establishments in the industry. The State agencies forward the data, either on the schedules themselves or in machine-readable form, to BLS-Washington. They also use the information provided on the forms to develop State and area estimates of employment, hours, and earnings. At BLS, the data are edited again by computer to detect processing and reporting errors which may have been missed in the initial State editing; the edited data are used to prepare national estimates.

It should be noted that for employment, the sum of the State figures will differ from the official U.S. national totals because of the effects of differing industrial and geo-

graphic stratification and differences in the timing of benchmark adjustments.

## CONCEPTS

### Industrial classification

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

All data on employment, hours, and earnings for the Nation (beginning with August 1990 data) and for States and areas (beginning with January 1990 data) are classified in accordance with the *1987 Standard Industrial Classification Manual* (SIC), Office of Management and Budget.

### Industry employment

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

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

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

*Indexes of diffusion of employment change* (table B-6). These indexes measure the dispersion among industries of the change in employment over the specified time span.

Beginning with August 1990 data, the overall indexes are calculated from 356 seasonally adjusted employment series (3-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 3-digit industries.

To derive the indexes, each component industry is assigned a value of 0, 50, or 100 percent, depending on whether its employment showed a decrease, no change, or an increase, respectively, over the time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment ( $65 - (100 - 65) = 30$ ). However, for dispersion analysis, the distance of the index number from the 50-percent reference point is the most significant observation.

Although diffusion indexes are commonly interpreted as showing the percent of components that increased over the time span, it should be remembered that the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.)

### Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

*Production and related workers.* This category includes working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operations.

*Construction workers.* This group includes the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed

by members of the construction trades.

*Nonsupervisory employees.* These are employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and other employees at similar occupational levels whose services are closely associated with those of the employees listed.

*Payroll.* This refers to the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th day of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. Employee benefits (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

*Hours.* These are the hours paid for during the pay period which includes the 12th of the month for production, construction, or nonsupervisory workers. Included are hours paid for holidays, vacations, and for sick leave when pay is received directly from the firm.

*Overtime hours.* These are hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which included the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded.

*Average weekly hours.* The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

*Indexes of aggregate weekly hours.* The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly fig-

ures for 1982. For basic industries, the hours aggregates are the product of average weekly hours and production worker or nonsupervisory worker employment. At all higher levels of industry aggregation, hours aggregates are the sum of the component aggregates.

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

Because overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month. Such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours. Diverse trends at the industry group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months.

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

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

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

For each sample establishment in SIC 3721 and SIC 3761

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

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

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

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

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

*Real earnings.* These earnings are in constant dollars and are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). The reference year for these series is 1982.

## ESTIMATING METHODS

The Current Employment Statistics (CES) or establishment survey estimates of employment are generated through an annual benchmark and monthly sample link procedure. Annual universe counts or benchmark levels are generated primarily from administrative records on employees covered by unemployment insurance (UI) tax laws. These annual benchmarks, established for March of each year, are projected forward for each subsequent month based on the trend of the sample employment, using an estimation procedure called the link relative. Benchmarks and sample link relatives are computed for each of 1,698 basic estimation cells defined by industry, size, and geography for the CES national estimates, and summed to create aggregate level employment estimates.

### Benchmarks

The establishment survey constructs annual benchmarks in order to realign the sample-based employment totals for March of each year with the UI-based population counts for March. These population counts are much less timely than sample-based estimates; however, they provide an annual point-in-time census for employment.

Population counts are derived from the administrative file of employees covered by UI. All employers covered by UI laws are required to report employment and wage information to the appropriate State employment security agency four times a year. Approximately 98 percent of in-scope private employment is covered by UI. A benchmark for the remaining 2 percent is constructed from alternate sources, primarily records from the Interstate Commerce Commission and the Social Security Administration. The full benchmark developed for March replaces the March sample-based estimate for each basic cell. The monthly sample-based estimates for the year preceding and the year following the benchmark are also then subject to revision.

Monthly estimates for the year preceding the March benchmark are readjusted using a “wedge back” procedure. The difference between the final benchmark level and the previously published March sample estimate is calculated and spread back across the previous 11 months. The wedge is linear; eleven-twelfths of the March difference is added to the February estimates, ten-twelfths to the January estimates, and so on, back to the previous April estimates which receive one-twelfth of the March difference. This assumes that the total estimation error since the last benchmark accumulated at a steady rate throughout the current benchmark year.

Estimates for the 11 months following the March benchmark are also recalculated each year. These post-benchmark estimates reflect the application of sample-based monthly changes to new benchmark levels for March, and the recomputation of bias adjustment factors for each month. Bias factors are updated to take into account the most recent experience of the estimates generated by the monthly

sample versus the full universe counts derived from the UI.

Following the revision of basic employment estimates, all other derivative series (e.g., production workers, average hourly earnings) are also recalculated. New seasonal adjustment factors are calculated and all data series, usually for the previous 5 years, are reseasonally adjusted, prior to full publication of all revised data in June of each year.

### Monthly estimation

Estimates are derived from a sample of approximately 390,000 business establishments nationwide. A current month's estimate is derived as the product of the previous month's estimate and a sample link relative for the current month. A bias adjustment factor is then applied to this result primarily to help account for new business births during the month.

*Stratification.* The sample is stratified into 1,698 basic estimation cells for purposes of computing national employment, hours, and earnings estimates. Cells are defined primarily by detailed industry, and secondarily by size for a majority of cells. In a few industries, mostly within the construction division, geographic stratification is also used. Industry classification is in accordance with the *1987 Standard Industrial Classification Manual* (SIC); most estimation cells are defined at the 4-digit SIC level.

This detailed stratification pattern allows for the production and publication of estimates in considerable industry detail. Sub-industry stratification by size is important because major statistics which the survey measures, particularly employment change and average earnings, often vary significantly between establishments of different size. Stratification reduces the variance of the published industry level estimates.

*Link relative technique.* A ratio of the previous to the current month's employment is computed from a sample of establishments reporting for both months—this ratio is called a “link relative.” For each basic cell, a link relative is computed and applied to the previous month's employment estimate to derive the current month's estimate. Thus a March benchmark is moved forward to the next March benchmark through application of monthly link relatives. Basic cell estimates created through the link relative technique are aggregated to form published industry level estimates, for employment, as described in table 2-A. Basic estimation and aggregation methods for the hours and earnings data are also shown in table 2-A.

*Bias adjustment.* Bias adjustment factors are computed at the 3-digit SIC level, and applied each month at the basic cell level, as part of the standard estimation procedures. The main purpose of bias adjustment is to reduce a primary source of nonsampling error in the survey, the inability to capture, on a timely basis, employment generated by new firm births. There is a several month lag between an

**Table 2-A. Summary of methods for computing industry statistics on employment, hours, and earnings**

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

<sup>1</sup> The estimates are computed by multiplying the above product by bias adjustments 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.

establishment opening for business and its appearing on the UI universe frame and being available for sampling. Because new firms generate a portion of employment growth each month of the year, nonsampling methods must be used to capture this growth, otherwise substantial underestimation of total employment levels would occur. Formal bias adjustment procedures have been used by the establishment survey since the late 1960's. Prior to the 1983 benchmark, bias adjustments were derived from a simple mean error model, which averaged undercount errors for the previous 3 years to arrive at bias projections for the coming year. The undercount errors were measured as the difference between sample-based estimate results and benchmark levels.

This procedure eventually proved inadequate during periods of rapidly changing employment trends, and the bias adjustment methodology was revised. Research done in the early 1980's indicated that bias requirements were strongly correlated with current employment growth or decline. Based on this research, a revised method was developed which incorporated the sample data on employment growth over the most recent two quarters, and a regression-derived coefficient for the significance of that change, to adjust the mean error model results. This change in methodology provided a more cyclically sensitive bias model. The regression-adjusted mean error model has been in use since 1983, for the production of national estimates.

The current model still has limitations in its ability to react to changing economic conditions or changing error structure relationships between the sample-based estimates and the UI universe counts. A principal limitation is the inability to incorporate UI universe counts as they become available on an ongoing basis, with a 6- to 9-month lag from the reference period. Thus, the current quarterly outputs from the model are subject to intervention analysis, and adjustments can be made to its results, prior to the establishment of final bias levels for a quarter. Review is done primarily in terms of detection of outlier (i.e. abnormally high or low) values, and by comparison of CES sample and bias trends with the most recent quarterly observations of UI universe counts. The BLS currently has under study improved bias models utilizing a Kalman filter technique, which would allow a more formal, structured incorporation of each quarter's UI universe counts in the bias modeling process.

Although the primary function of bias adjustment is to account for employment resulting from new business formations, it also adjusts for other elements of nonsampling error in the survey, because the primary input to the modeling procedure is total estimation error. Significant among these nonsampling error sources is a business death bias. When a sampled firm closes down, most often it simply does not respond to the survey that month, rather than reporting zero employment. Followup with nonrespondents may reveal an out-of-business firm, but this information is often received too late to incorporate into monthly esti-

mates, and the firm is simply treated as a nonrespondent for that month.

Because the bias adjustments incorporated into the estimates represent a composite of a birth bias, death bias, and a number of other differences between the sample-based estimates and the population counts, the monthly bias adjustment levels have no specific economic meaning in and of themselves.

Table 2-B summarizes bias adjustments for the 1987-97 period. The table displays the average monthly "bias added" and the average monthly "bias required" with the benchmark revisions for each year. Bias added shows the average amount of bias which was added each month over the course of an interbenchmark period. For example, the bias added for 1997 is listed as 130,000; this represents the average of bias adjustments made each month over the period April 1996 through March 1997. Bias required is computed retrospectively, after the March benchmark for a given year is known. Bias required figures are calculated by taking the difference between a March estimate derived purely from the sample (i.e. a series calculated without bias adjustment) and the March benchmark. Dividing this figure by 12 gives the average monthly bias required figure. The bias required is thus defined as the amount of bias adjustment which would have achieved a zero benchmark error. The difference between the total bias required and the total bias added is then, by definition, approximately the benchmark revision amount, for any given year. Also provided in the table for illustration, are the March-to-March changes. As discussed above, the over-the-year changes indicate correlation with the bias added and bias required figures.

## THE SAMPLE

### Design

The emphasis in the establishment survey is on producing timely data at minimum cost. Therefore, the primary goal of its design is to sample a sufficiently large segment of the universe to provide reliable estimates that can be published both promptly and regularly. The present sample allows BLS to produce preliminary total nonfarm employment estimates for each month, including some limited industry detail, within 3 weeks after the reference period, and data in considerably more detail with an additional 1-month lag.

The CES survey, which began over 50 years ago, predates the introduction of probability sampling methods and has operated as a quota sample since its inception.

The sampling plan used is a form of sampling with probability proportionate to size, known as "sampling proportionate to average size of establishment". This is an optimum allocation design among strata because sampling variance is proportional to the average size of establishments. The universe of establishment employment is highly skewed, with a large percentage of total employment concentrated in relatively few establishments. Because vari-



ance on a population total estimate is a function of percentage universe coverage achieved by the sample, it is efficient to sample larger establishments at a higher rate than smaller establishments, assuming the cost per sample unit is fairly constant across size classes.

Under the survey design, large establishments fall into a certainty strata for sample selection. The size of the sample for the various industries is determined empirically on the basis of experience and cost considerations. For example, in a manufacturing industry with a high proportion of total employment concentrated in a small number of establishments, a larger percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments, with a relatively few chosen from among the smaller establishments. For an industry in which a large proportion of total employment is concentrated in small establishments, the sample design again calls for inclusion of all large establishments but also for a more substantial number of smaller ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to have a sample design for these industries with a smaller proportion of total universe coverage than is the case for most manufacturing industries.

### Coverage

The establishment survey is the largest monthly sampling operation in the field of social statistics. Table 2-C shows the latest benchmark employment levels and the approximate proportion of total universe employment coverage, at the total nonfarm and major industry division levels. The coverage for individual industries within the divisions may vary from the proportions shown.

### Reliability

The establishment survey, like other sample surveys, is subject to two types of error, sampling and nonsampling error. The magnitude of sampling error, or variance, is directly related to the size of the sample and the percentage of universe coverage achieved by the sample. The establishment survey sample covers over one-third of total universe employment; this yields a very small variance on the total nonfarm estimates. Measurements of error associated with sample estimates are provided in tables 2-D through 2-G.

*Benchmark revision as a measure of survey error.* The sum of sampling and nonsampling error can be considered total survey error. Unlike most sample surveys which publish sampling error as their only measure of error, the CES can derive an annual approximation of total error, on a lagged basis, because of the availability of the independently derived universe data. While the benchmark error is used as a measure of total error for the CES survey estimate, technically, it actually represents the difference between two independent estimates derived from separate survey processes (i.e., the CES sample process and the UI universe process) and thus reflects the errors present in each program. Historically, the benchmark revision has been very small for total nonfarm employment. Over the past decade, percentage benchmark error has averaged 0.3 percent, with a range from zero to 0.7 percent. Table 2-D shows the most current benchmark revisions, along with 10-year mean revisions and mean absolute revisions for major industries. Mean revisions give an indication of bias in the estimates; unbiased estimates have a mean revision close to zero, as over and under estimations cancel out over time. Mean absolute revisions give an overall indicator as to the accuracy of the

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

Year	Benchmark		Average monthly bias		Over-the-year employment change <sup>5</sup>
	Employment <sup>1</sup>	Revision <sup>2</sup>	Added <sup>3</sup>	Required <sup>4</sup>	
1987 .....	83,173	21	98	99	1,969
1988 .....	86,180	-310	114	88	3,007
1989 .....	89,015	-93	131	123	2,835
1990 .....	90,546	-261	85	63	1,531
1991 .....	88,790	-583	61	12	-1,756
1992 .....	88,347	-130	33	22	-443
1993 .....	89,790	288	83	107	1,443
1994 .....	92,730	688	115	171	2,940
1995 .....	96,175	511	144	187	3,445
1996 .....	98,158	72	129	135	1,983
1997 .....	101,040	518	130	173	2,882

<sup>1</sup> Universe counts for March of each year are used to make annual benchmark adjustments to the employment estimates. About 98 percent of the benchmark employment is from unemployment insurance administrative records, and the remaining 2 percent is from alternate sources. Data represent benchmark levels as originally computed.

<sup>2</sup> Difference between the final March sample-based estimate and the benchmark level for total private employment.

<sup>3</sup> The average amount of bias adjustment each month over the

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

<sup>4</sup> The difference between the March benchmark and the March estimate derived solely from the sample without bias adjustment, converted to a monthly amount by dividing by 12.

<sup>5</sup> March-to-March changes in the benchmark employment level.

NOTE: Data in this table exclude government employment because there is no bias adjustment for this sector.

estimates; the larger the value, the further the estimate was from the final benchmark level.

*Estimated standard errors for employment, hours, and earnings.* The hours and earnings estimates for the basic estimating cells do not have universe data sources available and therefore are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. Like the employment estimates, the hours and earnings estimates are also subject to sampling and nonsampling errors. Estimates of the sampling error for employment, hours, and earnings were computed using the method of random groups and are expressed as relative standard errors (standard error divided by the estimate). Relative standard errors for individual industries with the specified number of employees are presented in table 2-E and for major industries in table 2-F. Multiplying the relative standard error by its estimated value gives the estimate of the standard error. The errors presented here are based on averages observed from sample data over the March 1994 through March 1995 period.

*Standard errors for differences between industries and times.* The standard error of a difference is required to test for significant differences between estimates from two different industries. Since the estimates for the two industries are independent, the standard error of a difference is the square root of the sum of the estimated variance of each estimate,  $S_1^2$  and  $S_2^2$ .

$$S \text{ difference} = \sqrt{s_1^2 + s_2^2}$$

The CES sample overlaps almost entirely from month to month, so monthly estimates are not independent. The covariance between these estimates must be accounted for when testing the significance of the change in estimates over time. The standard error of the change can be estimated as follows.

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

If  $S_1 = S_2$ , then:

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

Conservative estimates of  $\rho$  after one month are 0.8 for employment, 0.6 for average weekly hours, and 0.8 for average hourly earnings.

If the bias is small, then the standard error can be used to construct approximate confidence intervals or range of values that include the true population value. If the process

of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for each sample, then approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the true population value.

*Noneconomic code changes.* A major source of benchmark revision at the major industry division level and below are noneconomic code changes, which are introduced into the universe data in the first quarter of each calendar year.

Approximately one-third of all establishments in the universe are included in the universe program's annual Standard Industrial Classification (SIC) refiling survey. Corrections to individual establishments' SIC and ownership codes are made through this process. The refiling cycle is such that every third year entire division(s) are subject to refiling. The volume of these adjustments is generally quite large and has a substantial impact on universe employment counts at the industry levels, although the total nonfarm employment level remains unaffected. For example, in a year when the services division is refiled, a substantial amount of

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

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

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

<sup>2</sup> The Interstate Commerce Commission provides a complete count of employment for Class I railroads plus Amtrak. A small sample is used to estimate hours and earnings data.

<sup>3</sup> Total Federal employment counts by agency for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of reports covering about 51 percent of employment in Federal establishments.

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

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

See footnotes at end of table.

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

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

<sup>1</sup> Data relate to the 1988-97 benchmarks, as originally published, unless otherwise noted.

<sup>2</sup> Less than 0.05 percent.

<sup>3</sup> Data relate to 1989-97.

<sup>4</sup> Includes other industries, not shown separately.

**Table 2-E. Relative standard errors<sup>1</sup> for estimates of employment, hours, and earnings**

(In percent)

Size of employment estimate	Employment	Average weekly hours	Average hourly earnings
50,000 .....	1.4	1.9	3.2
100,000 .....	1.1	1.5	2.6
200,000 .....	.8	1.2	2.2
500,000 .....	.6	.9	1.7
1,000,000 .....	.4	.7	1.3
2,000,000 .....	.3	.6	1.1

<sup>1</sup> Relative errors were estimated with sample data from March 1994-March 1995.

**Table 2-F. Relative standard errors<sup>1</sup> for estimates of employment, hours, and earnings by industry**

(In percent)

Industry	Employment	Average weekly hours	Average hourly earnings
Total private .....	0.1	0.1	0.2
Mining .....	.8	.6	1.1
Construction .....	.4	.1	.3
Manufacturing .....	.1	.1	.4
Durable goods .....	.1	.1	.5
Nondurable goods .....	.1	.1	.5
Transportation and public utilities .....	.3	.5	1.0
Wholesale trade .....	.2	.2	.4
Retail trade .....	.1	.1	.3
Finance, insurance, and real estate .....	.2	.2	.7
Services .....	.2	.2	.4

<sup>1</sup> Relative errors were estimated with sample data from March 1994-March 1995.

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

*Revisions between preliminary and final data.* First preliminary estimates of employment, hours, and earnings, based on less than the total sample, are published immediately following the reference month. Final revised sample-based estimates are published 2 months later when nearly

all the reports in the sample have been received. Table 2-G presents the root-mean-square error, the mean percent, and the mean absolute percent revision that may be expected between the preliminary and final employment estimates.

Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings, at the total private nonfarm level, and may be slightly larger for the more detailed industry groupings.

## STATISTICS FOR STATES AND AREAS

### (Tables B-7, B-14, and B-18)

As explained earlier, State agencies in cooperation with BLS collect and prepare State and area employment, hours, and earnings data. These statistics are based on the same establishment reports used by BLS, however, BLS uses the full CES sample to produce monthly national employment estimates, while each State agency uses its portion of the sample to independently develop a State employment estimate.

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

*Caution in aggregating State data.* The national estimation procedures used by BLS are designed to produce accurate national data by detailed industry; correspondingly the State estimation procedures are designed to produce accurate data for each individual State. State estimates are not forced to sum to national totals nor vice versa. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause distortions at an aggregate level. This has been a particular problem at turning points in the U.S. economy, when the majority of the individual State errors tend to be in the same direction. Due to these statistical limitations, the Bureau does not compile or publish a "sum-of-States" employment series. Additionally, BLS cautions users that such a series is subject to a relatively large and volatile error structure, particularly at turning points.

**Table 2-G. Errors of preliminary employment estimates**

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

See footnotes at end of table.

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

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

<sup>1</sup> The root-mean-square error is the square root of the mean squared error. The mean squared error is the square of the difference between the final and preliminary estimates averaged across a series of monthly observations.

<sup>2</sup> Includes other industries, not shown separately.

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

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

## FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which derive from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Job Training Partnership Act.

Annual average data for the States and 334 areas shown in table C-3 are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected demographic, social, and economic characteristics are published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

Labor force estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

## ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 6,500 areas, including nearly 2,400 LMA's, counties, and cities with a population of 25,000 or more. Regional aggregations are derived by summing the State estimates. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. At the sub-LMA (county and city) level, estimates are prepared using disaggregation techniques based on decennial and annual population estimates and current unemployment insurance data. A more detailed description of the estimation procedure is contained in the BLS document, *Manual for Developing Local Area Unemployment Statistics*.

### Estimates for States

*Current monthly estimates.* Effective January 1996, civilian labor force and unemployment estimates for all States and the District of Columbia are produced using models based on a "signal-plus-noise" approach. The model of the

signal is a time series model of the true labor force which consists of three components: A variable coefficient regression, a flexible trend, and a flexible seasonal component. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the Current Population Survey (CPS), the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. The noise component of the models explicitly accounts for auto correlation in the CPS sampling error and changes in the average magnitude of the error. In addition, the models can identify and remove the effects of outliers in the historical CPS series. While all the State models have important components in common, they differ somewhat from one another to better reflect individual State characteristics.

Two models—one for the employment-to-population ratio and one for the unemployment rate—are used for each State. The employment-to-population ratio, rather than the employment level, and the unemployment rate, rather than the unemployment level, are estimated primarily because these ratios are usually more meaningful for economic analysis.

The employment-to-population ratio models use the relationship between the State's monthly employment from the CES and the CPS. The models also include trend and seasonal components to account for movements in the CPS not captured by the CES series. The seasonal component accounts for the seasonality in the CPS not explained by the CES, while the trend component adjusts for long-run systematic differences between the two series.

The unemployment rate models use the relationship between the State's monthly unemployment insurance (UI) claims data and the CPS unemployment rate, along with trend and seasonal components.

In both the employment-to-population ratio and unemployment rate models, an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The regression portion of the model includes a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, levels are calculated for employment, unemployment, and labor force.

*Benchmark correction procedures.* Once each year, monthly estimates for all States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a pro-



cedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

### **Estimates for sub-State areas**

Monthly labor force, employment, and unemployment estimates for two large sub-State areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained using the same modeling approach as for states. Estimates for the nearly 2,400 remaining LMA's, are prepared through indirect estimation techniques, described below.

*Preliminary estimate—employment.* The total civilian employment estimates are based largely on CES data. These “place-of-work” estimates must be adjusted to refer to place of residence as used in the CPS. Factors for adjusting from place of work to place of residence have been developed on the basis of employment relationships at the time of the 1990 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agricultural employees, nonagricultural self-employed and unpaid family workers, and private household workers.

*Preliminary estimate—unemployment.* In the current month, the estimate of unemployment is an aggregate of the estimates for each of two categories: (1) Persons who were previously employed in industries covered by State UI laws; and (2) those who were entering the civilian labor force for the first time or reentering after a period of separation.

*Sub-State adjustment for additivity.* Estimates of employment and unemployment are prepared for the State and all LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment is applied to all sub-State preliminary LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment. For California and New York, the proportional adjustment is applied to all LMA's other than the two modeled areas, to ensure that the LMA estimates sum to an independent model-based estimate for the balance of State.

*Benchmark correction.* At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in UI claims counts, and updated historical relationships. The updated estimates are then re-adjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

# Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other non-seasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, because they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published monthly in *Employment and Earnings*.

## Household data

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

BLS uses an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January-June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data, usually for the most recent 5 years, are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970. In 1994, data were

revised only for that year because of the major redesign and 1990 census-based population controls, adjusted for the estimated undercount, introduced into the Current Population Survey. In 1996, 1990-93 data also were revised to incorporate these 1990 census-based population controls and seasonally adjusted series were revised back to 1990. Subsequent revisions are only carried back to 1994.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components and four seasonally adjusted unemployment components. The total for unemployment is the sum of the four unemployment components, and the unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

In each January issue (March issue in 1996), *Employment and Earnings* publishes revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment estimate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure.

## Establishment data

Effective in June 1997, with the release of the March 1996 benchmark revisions, BLS began using an updated version of the X-12 ARIMA software developed by the Bureau of the Census to seasonally adjust national establishment-based employment, hours, and earnings series. The X-12 ARIMA (first introduced in June 1996) replaces the X-11 ARIMA, which had been used to adjust these series since the early 1980's. All national establishment-based series were revised back to 1988.

The conversion to X-12 ARIMA allows BLS to refine its seasonal adjustment procedures to control for survey interval variations, sometime referred to as the 4-vs. 5-week effect. While the CES survey is referenced to a consistent concept, the pay period including the 12th day of the month, inconsistencies arise because there are variations of 4 or 5 weeks between the week of the 12th in any given pair of

months. In highly seasonal months and industries, this variation can be an important determinant of the magnitude of seasonal hires or layoffs that have occurred at the time the survey is taken, thereby complicating seasonal adjustment. The interval effect adjustment is accomplished through the REGARIMA (regression with auto-correlated errors) option in the X-12 software. This process combines standard regression analysis, which measures correlations between two or more variables, with ARIMA modeling, which describes and predicts the behavior of a data series based on its own past history. In this application, the correlations of interest are those between employment levels in individual calendar months and the length of the survey intervals for those months. The REGARIMA models estimate and remove the variation in employment levels attributable to 11 separate survey intervals, one specified for each month, except March. March is excluded because there are always 4 weeks between the February and March surveys.

Projected seasonal factors for the establishment-based series are calculated and published twice a year, paralleling the procedure used for the household series. Revisions to historical data are made once a year, coincident with benchmark revisions. All series are seasonally adjusted using multiplicative models in X-12; additive models are not considered. Seasonal adjustment factors are computed and applied at component levels. For employment series, these are generally the 2-digit SIC levels. Seasonally adjusted totals are arithmetic aggregations for employment series and weighted averages of the seasonally adjusted data for hours and earnings series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing the average weekly earnings series by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours by production or nonsupervisory workers and dividing by the 1982 annual average base. For total private, total goods-producing, total private service-producing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours for the appropriate component industries and dividing by the 1982 annual average base.

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

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

lation of seasonal adjustment factors.

BLS also makes special adjustments for floating holidays for the establishment-based series on average weekly hours and manufacturing overtime hours. From 1988 forward, these adjustments are now accomplished as part of the X-12 ARIMA/REGARIMA modeling process rather than through the previously used moving-holiday extension of X-11 ARIMA. The special adjustment made in November each year to adjust for the effect of poll workers in the local government employment series also is incorporated into the X-12 process from 1988 forward; this replaces the X-11 ARIMA-based procedure previously used to account for this effect.

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

Beginning in 1993, BLS introduced publication of seasonally adjusted nonfarm payroll employment data by major industry for all States and the District of Columbia (table B-7). Seasonal adjustment factors are applied directly to the employment estimates at the division level (component series for manufacturing and trade) and then aggregated to the State totals. The recomputation of seasonal factors and historical revisions are made coincident with the annual benchmark adjustments. State estimation procedures are designed to produce accurate (unadjusted and seasonally adjusted) data for each individual State. BLS independently develops a national employment series; State estimates are not forced to sum to national totals. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause significant distortions at an aggregate level. Due to these statistical limitations, BLS does not compile a "sum-of-States" employment series, and cautions users that such a series is subject to a relatively large and volatile error structure.

### **Region and State labor force data**

Beginning in 1992, BLS introduced publication of seasonally adjusted labor force data for the census regions and divisions, the 50 States, and the District of Columbia (tables C-1 and C-2). Beginning in 1998, regional aggregations are derived by summing the State estimates. Using the X-11 ARIMA procedure, seasonal adjustment factors are computed and applied independently to the component employment and unemployment levels and then aggregated to regional or State totals. Current seasonal adjustment factors are produced for 6-month periods twice a year. Historical revisions usually are made at the beginning of each calendar year. Because of the separate processing procedures, totals for the Nation, as a whole, differ from the results obtained by aggregating regional or State data.

## Need information from the Bureau of Labor Statistics?

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Here are the Bureau's addresses.

Bureau of Labor Statistics ..... <http://stats.bls.gov>  
Division of Information Services ..... <http://stats.bls.gov/opbinfo.htm>  
BLS Regional Offices ..... <http://stats.bls.gov/regnhome.htm>

### **Employment and Unemployment:**

National establishment data ..... <http://stats.bls.gov/ceshome.htm>  
State and area establishment data ..... <http://stats.bls.gov/790home.htm>  
National labor force data ..... <http://stats.bls.gov/cpshome.htm>  
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Collective bargaining ..... <http://stats.bls.gov/lmrhome.htm>  
Employment cost trends ..... <http://stats.bls.gov/ecthome.htm>  
Employee Benefits Survey ..... <http://stats.bls.gov/ebshome.htm>  
Occupational Compensation Survey ..... <http://stats.bls.gov/ocshome.htm>  
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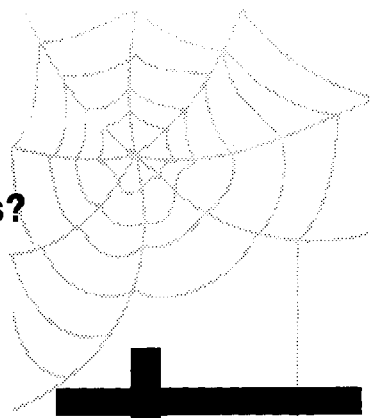
### **Productivity:**

Quarterly labor productivity ..... <http://stats.bls.gov/lprhome.htm>  
Industry productivity ..... <http://stats.bls.gov/iprhome.htm>  
Federal Government productivity ..... <http://stats.bls.gov/gprhome.htm>  
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**Employment Projections** ..... <http://stats.bls.gov/emphome.htm>

### **International data:**

Foreign labor statistics ..... <http://stats.bls.gov/flshome.htm>  
U.S. import and export price indexes ..... <http://stats.bls.gov/ipphome.htm>  
Foreign direct investment ..... <http://stats.bls.gov/fdihome.htm>



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## INDEX TO STATISTICAL TABLES

TABLE KEY: A: Monthly household data; B: Monthly national and State and area establishment data; C: Monthly regional, State, and area labor force data; D: Quarterly, household data only, in the January, April, July, and October issues. Annual averages: Household data in the January issue; national establishment data in the January, March, and June issues; State and area establishment and labor force data in the May issue. For additional information see the listing on the inside front cover of this publication.

Topic	Monthly		Quarterly averages		Annual averages
	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	
Absences from work .....					44-45
Aggregate weekly hours (index) .....	B-9				
Agricultural industries .....	A-1-3, 7, 11	A-15, 21-22, 30, 35	D-1, 5, 9	D-12-15	A-1-2; 1-2, 5-6, 12-13, 15, 17-18, 26, 32
At work .....	A-7	A-23-27	D-5		19-23
Class of worker .....	A-7	A-22	D-5	D-14-15	12-13, 15-16
Diffusion index .....	B-6				
Discouraged workers .....		A-36			35
Earnings, hourly .....	B-11	B-2, 15-18			B-2, 15-17; 50; 2
Earnings, weekly .....	B-11	B-2, 15, 15a 17-18		D-20-22	B-2, 15, 17; 37-39, 50; 2
Educational attainment .....	A-5	A-16, 17	D-3		7
Employment by:					
Age .....	A-3-4, 6, 8	A-14-16, 18, 22	D-1-2, 4, 6	D-12-13, 16	3-6, 8-9, 14-15
Hispanic origin .....	A-4	A-16-17	D-2	D-12-16	4-7, 11-13, 18
Industry .....	B-3-5, 7	A-21; B-12-14			B-1, 12-13; 16-18; 48; 1
Occupation .....	A-7	A-19-21	D-5	D-14-15	9-13, 17
Race .....	A-4	A-14-18, 20	D-2	D-12, 14, 16	3, 5, 7-8, 10-12, 14, 17-18
Sex .....	A-2-4, 6-8; B-4	A-14-20, 22; B-13	D-1-2, 4-6	D-12-16	B-13; 2-18
Full-time workers .....	A-6	A-18, 33	D-4	D-14-15	8, 12-13, 30
Historical data .....					A-1-2; B-1-2; 1-2
Hours of work .....	B-8-10	A-23-27; B-2, 15, 18			B-15; 19-23, 50; 2
Jobsearch methods .....					33-34
Marital status .....	A-7, 11	A-26, 28, 34	D-5, 9		24, 31
Multiple jobholders .....		A-37			36
Nonagricultural industries .....	A-1-3, 7	A-15, 22	D-1, 5		A-1-2; 1-2, 5-6, 12-13, 15
Not in the labor force .....		A-36			35
Part-time workers .....	A-6	A-18	D-4	D-14-15	8, 12-13
Production or nonsupervisory workers .....	B-5, 8-9, 11	B-12, 15-18			B-12, 15-17; 49-50
School enrollment .....		A-16			
State, region, and area data .....	B-7; C-1-2	B-14, 18; C-3			1-3
Unemployment by:					
Age .....	A-3-4, 6, 9-10	A-14-16, 18, 28 31-32, 34	D-1-2, 7-8	D-12-13, 17	3-6, 8, 24, 27, 29 33
Duration .....	A-13	A-32-35	D-11	D-19	29-32
Hispanic origin .....	A-4	A-16-17	D-2	D-12-13, 17-19	4-7, 28
Industry of last job .....	A-11	A-30, 35	D-9		26, 32
Occupation of last job .....	A-11	A-29, A-35	D-9		25, 32
Race .....	A-4	A-14-18, 28 31, 34	D-2	D-12, 17-21	3, 5, 7-8, 24, 28, 31, 33
Reason .....	A-12	A-31-32	D-10	D-18	27-29
Sex .....	A-2-4, 6, 9-10	A-14-18, 28- 32, 34	D-1-2, 7-8	D-12-13, 17	2-8, 24, 25-27, 29, 31, 33-35
Union affiliation .....					40-43
Veterans, Vietnam-era .....		A-38		D-23-24	46-47

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