

L2.41/2:46/3

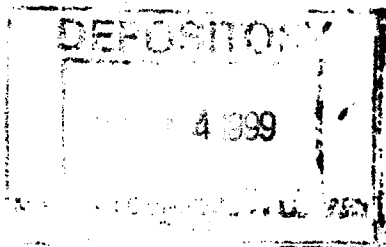


&

US Department of Labor  
Bureau of Labor Statistics  
March 1999

*In this issue:*

1998 annual averages for  
national establishment data





# U.S. DEPARTMENT OF LABOR

Alexis M. Herman, *Secretary*

## BUREAU OF LABOR STATISTICS

Katharine G. Abraham, *Commissioner*

*Employment & Earnings* (ISSN 0013-6840; USPS 485-010), is published monthly and prepared in the Office of Employment and Unemployment Statistics in collaboration with the Office of Publications. The data are collected by the Bureau of the Census (Department of Commerce) and State employment security agencies, in cooperation with the Bureau of Labor Statistics. The State agencies are listed on the inside back cover.

*Employment & Earnings* may be ordered from: New Orders, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Phone (202) 512-1800. Subscription price per year \$35 domestic and \$43.75 foreign. Single copy \$17 domestic and \$21.25 foreign. Prices are subject to change by the U.S. Government Printing Office.

Correspondence concerning subscriptions, including address changes and missing issues, should be sent to the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Phone (202) 512-2303. POSTMASTER: Send address changes to *Employment & Earnings*, U.S. Government Printing Office, Washington, DC 20402.

Communications on material in this publication should be addressed to: Editors, *Employment & Earnings*, Bureau of Labor Statistics, Washington, DC 20212. Specific questions concerning the data in this publication, or their availability, should be directed as follows:

### Household data:

Telephone: (202) 606-6378

E-mail: [CPSInfo@bls.gov](mailto:CPSInfo@bls.gov)

Internet: <http://stats.bls.gov/cpshome.htm>

### National establishment data:

Telephone: (202) 606-6555

E-mail: [CESInfo@hls.gov](mailto:CESInfo@hls.gov)

Internet: <http://stats.bls.gov/ceshome.htm>

### State and area establishment data:

Telephone: (202) 606-6559

E-mail: [Data\\_SA@bls.gov](mailto:Data_SA@bls.gov)

Internet: <http://stats.bls.gov/790home.htm>

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

Telephone: (202) 606-6392

E-mail: [LausInfo@bls.gov](mailto:LausInfo@bls.gov)

Internet: <http://stats.bls.gov/lauhome.htm>

Periodicals postage paid at Washington, DC, and at additional mailing addresses.

Information in this publication will be made available to sensory impaired individuals upon request. Voice phone (202) 606-7828; Federal Relay Service: 1-800-877-8339.

Material in this publication is in the public domain and, with appropriate credit, may be reproduced without permission.

March 1999

Vol. 46 No. 3

## 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

Cover Design:  
Keith Tapscott

# Employment & Earnings

## Editors

Eugene H. Becker  
John F. Stinson Jr.

## Design and Layout

Phyllis L. Lott  
Irma Mayfield

## Editors' Note

With this issue, regional (table C-1), and State (table C-2) labor force data reflect the incorporation of updated 1990 census-based population controls, reestimation of models, benchmarking to Current Population Survey annual averages, and revised seasonal adjustment factors. Area data (table C-3) also reflect revised inputs to the estimation process.

In addition, establishment-based State and area estimates (tables B-14 and B-18) have been adjusted to reflect March 1998 benchmark levels and State employment estimates (table B-7) also have been revised based on recomputed seasonal adjustment factors.

Revised historical regional and State labor force and State establishment-based employment data which used to appear in this publication are no longer being published but are available from the BLS Internet. Revised regional and State labor force data and State establishment-based employment data are available at <http://stats.bls.gov/lauhome.htm> and <http://stats.bls.gov/790home.htm>, respectively.

## Contents

	<i>Page</i>
List of statistical tables .....	ii
Contents to the explanatory notes and estimates of error .....	iv
Employment and unemployment developments, February 1999 .....	1
Summary tables and charts .....	3
Explanatory notes and estimates of error .....	136
Index to statistical tables .....	176

## Statistical tables

Source	Historical	Seasonally adjusted	Not seasonally adjusted	Other features
Household data .....	5	7	18	
Establishment data:				
Employment:				
National .....	43	47	64	
State .....		52	77	
Area .....			77	
Hours and earnings:				
National .....	44	60	96	
State and area .....			119	
Local area labor force data:				
Region .....		123		
State .....		125	130	
Area .....			130	
Annual averages, establishment data .....				(1)

<sup>1</sup> All tables containing not seasonally adjusted national establishment data.

# Monthly Household Data

Page

## Historical

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1965 to date .....	5
A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1987 to date .....	6

## Seasonally Adjusted Data

### Employment Status

A-3. Employment status of the civilian noninstitutional population by sex and age .....	7
A-4. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin .....	8
A-5. Employment status of the civilian noninstitutional population 25 years and over by educational attainment .....	10
A-6. Employed and unemployed full- and part-time workers by sex and age .....	11

### Characteristics of the Employed

A-7. Employed persons by marital status, occupation, class of worker, and part-time status .....	12
A-8. Employed persons by age and sex .....	13

### Characteristics of the Unemployed

A-9. Unemployed persons by age and sex .....	14
A-10. Unemployment rates by age and sex .....	15
A-11. Unemployment rates by occupation, industry, and selected demographic characteristics .....	16
A-12. Unemployed persons by reason for unemployment .....	17
A-13. Unemployed persons by duration of unemployment .....	17

## Not Seasonally Adjusted Data

### Employment Status

A-14. Employment status of the civilian noninstitutional population by age, sex, and race .....	18
A-15. Employment status of the civilian noninstitutional population by race, sex, and age .....	21
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 .....	22
A-17. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, sex, race, and Hispanic origin .....	24
A-18. Employed and unemployed full- and part-time workers by age, sex, and race .....	25

### Characteristics of the Employed

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

### Characteristics of the Unemployed

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

### Persons Not in the Labor Force

A-36. Persons not in the labor force by desire and availability for work, age, and sex .....	40
--	----

### Multiple Jobholders

A-37. Multiple jobholders by selected demographic and economic characteristics .....	41
--	----

### Vietnam-era Veterans and Nonveterans

A-38. Employment status of male Vietnam-era veterans and nonveterans by age .....	42
---	----

# Monthly Establishment Data

Page

## Historical

B-1. Employees on nonfarm payrolls by major industry, 1947 to date .....	43
B-2. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry, 1964 to date .....	44

## Seasonally Adjusted Data

### Employment

#### National

B-3. Employees on nonfarm payrolls by major industry and selected component groups .....	47
B-4. Women employees on nonfarm payrolls by major industry and manufacturing group .....	49
B-5. Production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group .....	50
B-6. Diffusion indexes of employment change .....	51

#### States

B-7. Employees on nonfarm payrolls by State and major industry .....	52
--	----

### Hours and Earnings

#### National

B-8. Average weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group .....	60
B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group .....	61
B-10. Hours of wage and salary workers on nonfarm payrolls by major industry .....	62
B-11. Average hourly and weekly earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry .....	63

## Not Seasonally Adjusted Data

### Employment

#### National

B-12. Employees on nonfarm payrolls by detailed industry .....	64
B-13. Women employees on nonfarm payrolls by major industry and manufacturing group .....	76

#### States and Areas

B-14. Employees on nonfarm payrolls in States and selected areas by major industry .....	77
--	----

### Hours and Earnings

#### National

B-15. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by detailed industry .....	96
B-15a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing .....	116
B-16. Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls .....	117
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 .....	118

#### States and Areas

B-18. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas .....	119
---	-----

# Monthly Regional, State, and Area Labor Force Data

## Seasonally Adjusted Data

C-1. Labor force status by census region and division .....	123
C-2. Labor force status by State .....	125

## Not Seasonally Adjusted Data

C-3. Labor force status by State and metropolitan area .....	130
--	-----

# Explanatory Notes and Estimates of Error

	<i>Page</i>		<i>Page</i>
Introduction .....	136	Establishment data—Continued	
Relation between the household and establishment series .....	136	Estimating methods .....	159
Comparability of household data with other series .....	137	Benchmarks .....	159
Comparability of payroll employment data with other series .....	137	Monthly estimation .....	159
Household data .....	138	Stratification .....	159
Collection and coverage .....	138	Link relative technique .....	159
Concepts and definitions .....	138	Bias adjustment .....	159
Historical comparability .....	140	Summary of methods table .....	160
Changes in concepts and methods .....	140	The sample .....	161
Noncomparability of labor force levels .....	142	Design .....	161
Changes in the occupational and industrial classification systems .....	144	Coverage .....	162
Sampling .....	144	Reliability .....	162
Selection of sample areas .....	145	Measures of error tables .....	162
Selection of sample households .....	145	Benchmark revision as a measure of survey error .....	162
Rotation of sample .....	146	Estimated standard errors for employment, hours, and earnings .....	163
CPS sample, 1947 to present .....	146	Standard errors for differences between industries and times .....	163
Estimating methods .....	146	Noneconomic code changes .....	163
Noninterview adjustment .....	147	Revisions between preliminary and final data .....	166
Ratio estimates .....	147	Statistics for States and areas .....	166
First stage .....	147	Region, State, and area labor force data .....	169
Second stage .....	147	Federal-State cooperative program .....	169
Composite estimation procedure .....	148	Estimating methods .....	169
Rounding of estimates .....	148	Estimates for States .....	169
Reliability of the estimates .....	148	Current monthly estimates .....	169
Nonsampling error .....	148	Benchmark correction procedures .....	170
Sampling error (Revised effective Jan. 1996) .....	149	Estimates for sub-State areas .....	170
Tables I-B through I-H .....	149	Preliminary estimate:	
Establishment data .....	156	Employment .....	170
Collection .....	156	Unemployment .....	170
Concepts .....	156	Sub-State adjustment for additivity .....	170
		Benchmark correction .....	170
		Seasonal adjustment .....	171

# Employment and Unemployment Developments, February 1999

**P**ayroll employment rose in February, and the unemployment rate was little changed at 4.4 percent. Nonfarm payroll employment increased by 275,000; large gains occurred in construction and retail trade, while manufacturing had a substantial decline.

## Unemployment

Both the number of unemployed persons, 6.1 million, and the unemployment rate, 4.4 percent, were essentially unchanged in February, after seasonal adjustment. The jobless rate has remained within a narrow range of 4.3 to 4.5 percent since last April. The unemployment rate of adult men rose in February to 3.7 percent. Jobless rates of other major demographic groups—adult women (3.8 percent), teenagers (14.1 percent), whites (3.8 percent), blacks (8.3 percent), and Hispanics (6.7 percent)—showed little or no change over the month. (See tables A-3 and A-4.)

## Total employment and the labor force

Total employment was little changed in February, at 133.1 million, after seasonal adjustment. The employment-population ratio—the proportion of the population age 16 and older with jobs—was 64.4 percent, essentially unchanged from the previous month. Both the civilian labor force, 139.3 million, and the labor force participation rate, 67.3 percent, also were essentially unchanged. (See table A-3.)

About 8.0 million persons (not seasonally adjusted) held more than one job in February. These multiple jobholders made up 6.1 percent of the total employed, the same share as a year earlier. (See table A-37.)

## Persons not in the labor force

About 1.3 million persons (not seasonally adjusted) were marginally attached to the labor force in February. 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 271,000 in February, down from 361,000 a year earlier. (See table A-36.)

## Industry payroll employment

Nonfarm payroll employment rose by 275,000 in February to 127.6 million, seasonally adjusted. This increase was about in line with the average of the prior 3 months, but well above the average for the first 10 months of 1998. There was a large job gain in construction in February, partly reflecting the effects of mild weather across much of the Nation. Retail employment also increased sharply. Manufacturing lost 50,000 jobs following 2 months of smaller declines. (See table B-3.)

Construction employment increased by 72,000 in February, following a month of much slower growth. February's above-average temperatures over much of the country contributed to the strong over-the-month gain. Special trades contracting increased by 59,000, half of which occurred in two outside activities, masonry and roofing. Since September 1998, construction employment has risen by 258,000.

The retail trade industry added 123,000 jobs in February, after seasonal adjustment. Employment in eating and drinking places increased by 25,000, following a decline in January. Large gains occurred, after seasonal adjustment, in apparel and accessory stores (12,000), miscellaneous retail establishments (24,000), and department stores (23,000), as seasonal layoffs in these industries were lighter than usual for February. Building materials (8,000) and furniture stores (10,000) continued to add jobs in February, partly aided by strong construction activity.

Employment in the services industry grew by 87,000 in February, compared to an average of 110,000 in the prior 12 months. Computer and data processing services continued its strong growth, with a gain of 13,000 jobs. Slow growth continued in help supply services employment, which increased by only 7,000. Job growth slowed in engineering and management services; employment was up 3,000 in February after rising by 72,000 over the previous 3 months. Over the month, employment rose in education (20,000) and social services (16,000), and home health care services posted its first job increase (7,000) since July 1997.

Transportation and public utilities employment increased by 15,000 in February, about equal to the industry's average monthly growth over the prior 12 months. Most of the over-the-month gain was in air transportation (11,000). Wholesale trade employment rose by 9,000, with widespread in-

creases in durable goods distribution.

Employment in finance rose by 8,000 in February as growth continued throughout most components of the industry. The exception was security brokerages, which have shown no net employment gains since October. Insurance and real estate employment levels were essentially unchanged in February.

Government employment was up by 22,000 over the month, led by gains in both the educational and noneducational components of local government.

Manufacturing employment dropped by 50,000 in February, the largest decline since last November. Since March 1998, factory employment has fallen by 337,000. In February, apparel employment fell by 15,000, more than twice the average loss for the previous 12 months. The apparel industry has lost 306,000 jobs since its last peak in November 1991, or nearly a third of its work force. Aircraft manufacturing employment decreased by 6,000 over the month, following several months of smaller declines. Reductions in industrial machinery (7,000) and electrical equipment (2,000) employment continued, but the declines in these industries were smaller than in recent months. Employment in stone, clay, and glass products rose by 3,000 in February.

Mining shed another 10,000 jobs in February, bringing employment losses to 57,000 since its most recent peak in

September 1997. Job losses in oil and gas extraction have accounted for most of the contraction in mining over this period.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls increased by 0.2 hour in February to 34.7 hours, seasonally adjusted. The manufacturing workweek was unchanged at 41.6 hours. Factory overtime edged down 0.1 hour to 4.5 hours. (See table B-8.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls rose by 0.6 percent to 147.3 (1982=100), seasonally adjusted. The manufacturing index was down 0.3 percent in February to 106.7. (See table B-9.)

### Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose by 1 cent in February to \$13.04, seasonally adjusted. This followed a 5-cent gain in January. Average weekly earnings were \$452.49 in February (seasonally adjusted), up 0.7 percent over the month. Over the year, average hourly and weekly earnings both rose by 3.6 percent. (See table B-8.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
March	April 2	June	July 2
April	May 7	July	August 6
May	June 4	August	September 3



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

(Numbers in thousands)

Category	1998												1999	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Labor force status														
Civilian noninstitutional population .....	204,400	204,547	204,731	204,899	205,085	205,270	205,479	205,699	205,919	206,104	206,270	206,719	206,873	
Civilian labor force .....	137,384	137,340	137,232	137,369	137,498	137,407	137,481	138,081	138,116	138,193	138,547	139,347	139,271	
Percent of population .....	67.2	67.1	67.0	67.0	67.0	66.9	66.9	67.1	67.1	67.1	67.2	67.4	67.3	
Employed .....	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396	133,144	
Percent of population .....	64.1	64.0	64.1	64.1	64.0	63.9	63.9	64.1	64.0	64.1	64.2	64.5	64.4	
Unemployed .....	6,363	6,432	5,952	6,039	6,245	6,231	6,217	6,263	6,258	6,080	6,021	5,950	6,127	
Not in labor force .....	67,016	67,207	67,499	67,530	67,587	67,863	67,998	67,618	67,803	67,911	67,723	67,372	67,602	
Unemployment rates														
All workers .....	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.4	
Men, 20 years and over .....	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4	3.7	
Women, 20 years and over .....	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7	3.8	
Both sexes, 16 to 19 years .....	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5	14.1	
White .....	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	
Black .....	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9	7.8	8.3	
Hispanic origin .....	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6	6.6	6.7	

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>	
Employment														
Total .....	124,832	124,914	125,234	125,562	125,751	125,869	126,191	126,363	126,527	126,804	127,118	127,335	127,610	
Total private .....	105,112	105,186	105,470	105,734	105,938	106,043	106,269	106,435	106,579	106,818	107,096	107,274	107,527	
Goods-producing industries .....	25,314	25,276	25,339	25,301	25,304	25,135	25,253	25,241	25,209	25,184	25,269	25,256	25,268	
Mining .....	590	587	582	579	578	571	571	568	564	560	557	547	537	
Construction .....	5,902	5,860	5,930	5,917	5,946	5,970	5,989	5,981	6,012	6,051	6,153	6,167	6,239	
Manufacturing .....	18,822	18,829	18,827	18,805	18,780	18,594	18,693	18,692	18,633	18,573	18,559	18,542	18,492	
Service-producing industries .....	99,518	99,638	99,895	100,261	100,447	100,734	100,938	101,122	101,318	101,620	101,849	102,079	102,342	
Transportation and public utilities .....	6,494	6,504	6,513	6,534	6,538	6,550	6,570	6,579	6,595	6,604	6,627	6,641	6,656	
Wholesale trade .....	6,769	6,783	6,798	6,815	6,821	6,827	6,838	6,862	6,864	6,877	6,882	6,899	6,908	
Retail trade .....	22,283	22,259	22,335	22,423	22,448	22,547	22,545	22,592	22,589	22,672	22,712	22,748	22,871	
Finance, insurance, and real estate .....	7,232	7,258	7,289	7,311	7,333	7,370	7,372	7,393	7,417	7,441	7,458	7,481	7,488	
Services .....	37,020	37,106	37,196	37,350	37,494	37,614	37,691	37,768	37,905	38,040	38,148	38,249	38,336	
Government .....	19,720	19,728	19,764	19,828	19,813	19,826	19,922	19,928	19,948	19,986	20,022	20,061	20,083	
Over-the-month change														
Total .....	192	82	320	328	189	118	322	172	164	277	314	217	275	
Total private .....	158	74	284	264	204	105	226	166	144	239	278	178	253	
Goods-producing industries .....	17	-38	63	-38	3	-169	118	-12	-32	-25	85	-13	12	
Mining .....	-2	-3	-5	-3	-1	-7	0	-3	-4	-4	-3	-10	-10	
Construction .....	21	-42	70	-13	29	24	19	-8	31	39	102	14	72	
Manufacturing .....	-2	7	-2	-22	-25	-186	99	-1	-59	-60	-14	-17	-50	
Service-producing industries .....	175	120	257	366	186	287	204	184	196	302	229	230	263	
Transportation and public utilities .....	21	10	9	21	4	12	20	9	16	9	23	14	15	
Wholesale trade .....	10	14	15	17	6	6	11	24	2	13	5	17	9	
Retail trade .....	3	-24	76	88	25	99	-2	47	-3	83	40	36	123	
Finance, insurance, and real estate .....	19	26	31	22	22	37	2	21	24	24	17	23	7	
Services .....	88	86	90	154	144	120	77	77	137	135	108	101	87	
Government .....	34	8	36	64	-15	13	96	6	20	38	36	39	22	
Hours of work <sup>1</sup>														
Total private .....	34.7	34.6	34.5	34.7	34.6	34.6	34.6	34.4	34.6	34.5	34.6	34.5	34.7	
Manufacturing .....	42.0	41.8	41.4	41.8	41.8	41.7	41.7	41.6	41.7	41.7	41.7	41.6	41.6	
Overtime .....	4.8	4.8	4.5	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.6	4.5	
Indexes of aggregate weekly hours (1982=100) <sup>1</sup>														
Total private .....	144.4	143.8	144.0	144.9	144.8	145.2	145.3	144.9	145.8	145.7	146.4	146.4	147.3	
Manufacturing .....	110.3	109.7	108.7	109.4	109.0	107.2	108.0	108.0	107.8	107.3	107.4	107.0	106.7	
Earnings <sup>1</sup>														
Average hourly earnings, total private:														
Current dollars .....	\$12.59	\$12.63	\$12.70	\$12.73	\$12.76	\$12.79	\$12.85	\$12.87	\$12.90	\$12.94	\$12.98	\$13.03	\$13.04	
Constant (1982) dollars <sup>2</sup> .....	7.69	7.71	7.73	7.74	7.75	7.76	7.78	7.79	7.79	7.80	7.81	7.83	N.A.	
Average weekly earnings, total private .....	436.87	437.00	438.15	441.73	441.50	442.53	444.61	442.73	446.34	446.43	449.11	449.54	452.49	

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

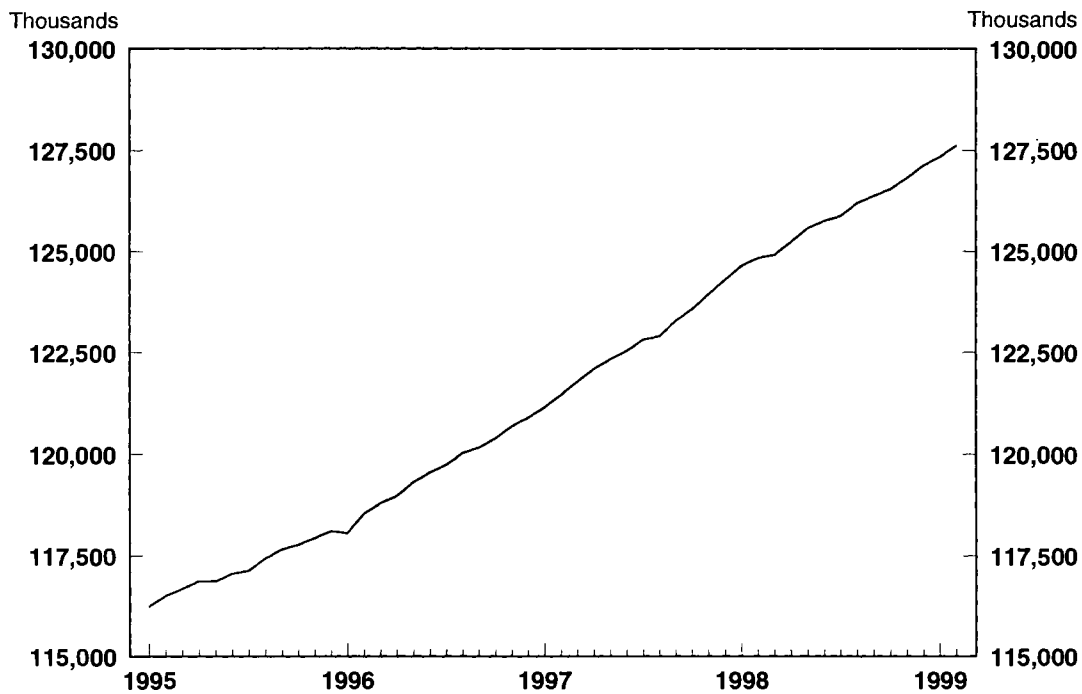
<sup>2</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series. Data have been revised to reflect updated seasonal adjustment factors

used in the CPI-W.

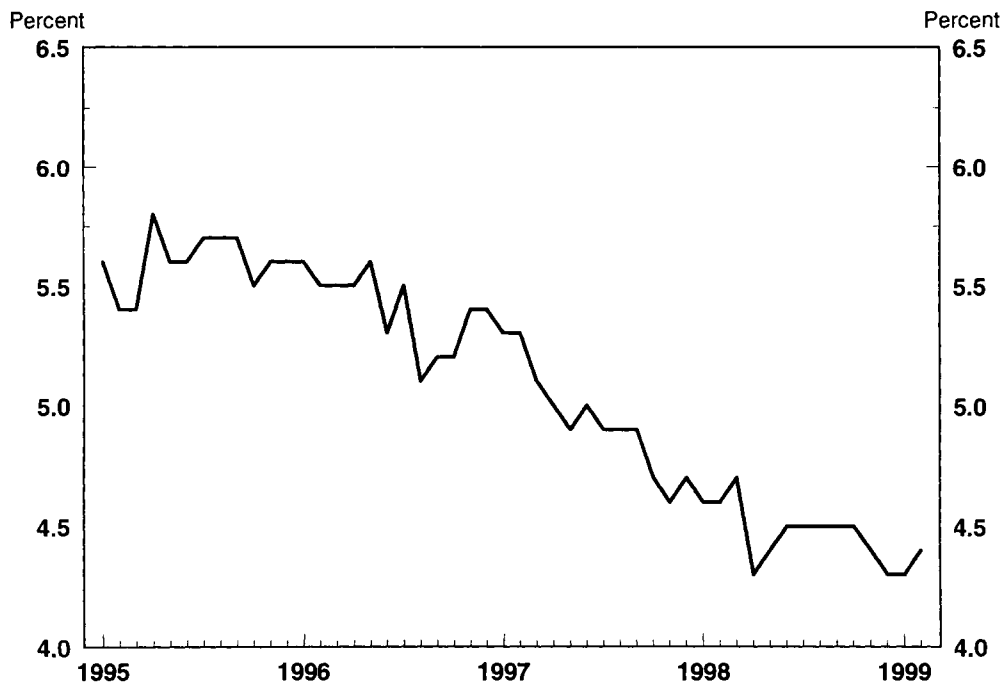
N.A. = not available.

<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	3,367	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>										
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
February .....	206,873	139,271	67.3	133,144	64.4	3,328	129,817	6,127	4.4	67,602

<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 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	
<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>										
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
February	99,279	74,504	75.0	71,276	71.8	2,424	68,851	3,228	4.3	24,776
<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>										
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
February	107,593	64,767	60.2	61,869	57.5	903	60,965	2,899	4.5	42,826

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> ..	204,400	204,547	204,731	204,899	205,085	205,270	205,479	205,699	205,919	206,104	206,270	206,719	206,873
Civilian labor force .....	137,384	137,340	137,232	137,369	137,498	137,407	137,481	138,081	138,116	138,193	138,547	139,347	139,271
Percent of population .....	67.2	67.1	67.0	67.0	67.0	66.9	66.9	67.1	67.1	67.1	67.2	67.4	67.3
Employed .....	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,856	132,113	132,526	133,396	133,144
Employment-population ratio .....	64.1	64.0	64.1	64.1	64.0	63.9	63.9	64.1	64.0	64.1	64.2	64.5	64.4
Unemployed .....	6,363	6,432	5,952	6,039	6,245	6,231	6,215	6,263	6,258	6,080	6,021	5,950	6,127
Unemployment rate .....	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.4
<b>Men, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	98,331	98,405	98,503	98,591	98,691	98,785	98,892	99,006	99,121	99,217	99,309	99,198	99,279
Civilian labor force .....	73,735	73,657	73,723	73,792	73,866	73,989	73,754	74,202	74,189	74,345	74,437	74,599	74,504
Percent of population .....	75.0	74.9	74.8	74.8	74.8	74.9	74.6	74.9	74.8	74.9	75.0	75.2	75.0
Employed .....	70,411	70,295	70,695	70,603	70,592	70,629	70,503	70,841	70,925	71,182	71,204	71,459	71,276
Employment-population ratio .....	71.6	71.4	71.8	71.6	71.5	71.5	71.3	71.6	71.6	71.7	71.7	72.0	71.8
Agriculture .....	2,475	2,380	2,595	2,508	2,541	2,589	2,631	2,644	2,734	2,578	2,414	2,456	2,424
Nonagricultural industries .....	67,936	67,915	68,100	68,095	68,051	68,040	67,872	68,197	68,191	68,604	68,790	69,003	68,851
Unemployed .....	3,324	3,362	3,028	3,189	3,274	3,360	3,251	3,361	3,264	3,163	3,233	3,140	3,228
Unemployment rate .....	4.5	4.6	4.1	4.3	4.4	4.5	4.4	4.5	4.4	4.3	4.3	4.2	4.3
Not in labor force .....	24,596	24,748	24,780	24,799	24,825	24,796	25,138	24,804	24,932	24,872	24,872	24,599	24,776
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	90,476	90,502	90,580	90,622	90,700	90,802	90,889	91,003	91,101	91,192	91,220	91,124	91,189
Civilian labor force .....	69,559	69,446	69,616	69,608	69,590	69,738	69,518	69,869	69,913	70,023	70,069	70,295	70,174
Percent of population .....	76.9	76.7	76.9	76.8	76.7	76.8	76.5	76.8	76.7	76.8	76.8	77.1	77.0
Employed .....	66,927	66,769	67,173	67,084	66,994	67,056	66,940	67,262	67,362	67,573	67,553	67,884	67,577
Employment-population ratio .....	74.0	73.8	74.2	74.0	73.9	73.8	73.7	73.9	73.9	74.1	74.1	74.5	74.1
Agriculture .....	2,297	2,194	2,423	2,331	2,337	2,382	2,420	2,402	2,449	2,374	2,237	2,312	2,212
Nonagricultural industries .....	64,630	64,575	64,750	64,753	64,657	64,674	64,520	64,860	64,913	65,199	65,316	65,572	65,365
Unemployed .....	2,632	2,677	2,443	2,524	2,596	2,682	2,578	2,607	2,551	2,450	2,516	2,411	2,598
Unemployment rate .....	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4	3.7
Not in labor force .....	20,917	21,056	20,964	21,014	21,110	21,064	21,371	21,134	21,188	21,169	21,151	20,829	21,014
<b>Women, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	106,070	106,141	106,228	106,308	106,394	106,484	106,587	106,693	106,798	106,887	106,960	107,521	107,593
Civilian labor force .....	63,649	63,683	63,509	63,577	63,632	63,418	63,727	63,879	63,927	63,848	64,110	64,748	64,767
Percent of population .....	60.0	60.0	59.8	59.8	59.8	59.6	59.8	59.9	59.9	59.7	59.9	60.2	60.2
Employed .....	60,610	60,613	60,585	60,727	60,661	60,547	60,761	60,977	60,933	60,931	61,322	61,937	61,869
Employment-population ratio .....	57.1	57.1	57.0	57.1	57.0	56.9	57.0	57.2	57.1	57.0	57.3	57.6	57.5
Agriculture .....	870	793	786	843	822	834	861	826	824	770	808	843	903
Nonagricultural industries .....	59,740	59,820	59,799	59,884	59,839	59,713	59,900	60,151	60,109	60,161	60,514	61,095	60,965
Unemployed .....	3,039	3,070	2,924	2,850	2,971	2,871	2,966	2,902	2,994	2,917	2,788	2,810	2,899
Unemployment rate .....	4.8	4.8	4.6	4.5	4.7	4.5	4.7	4.5	4.7	4.6	4.3	4.3	4.5
Not in labor force .....	42,421	42,458	42,719	42,731	42,762	43,066	42,860	42,814	42,871	43,039	42,850	42,773	42,826
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	98,471	98,534	98,583	98,668	98,735	98,778	98,901	98,994	99,037	99,135	99,181	99,686	99,746
Civilian labor force .....	59,625	59,666	59,539	59,583	59,613	59,465	59,708	59,804	59,826	59,896	60,078	60,718	60,622
Percent of population .....	60.6	60.6	60.4	60.4	60.4	60.2	60.4	60.4	60.4	60.4	60.6	60.9	60.8
Employed .....	57,097	57,136	57,117	57,235	57,190	57,078	57,295	57,426	57,437	57,503	57,745	58,466	58,291
Employment-population ratio .....	58.0	58.0	57.9	58.0	57.9	57.8	57.9	58.0	58.0	58.0	58.2	58.7	58.4
Agriculture .....	799	734	726	767	763	781	806	767	771	734	753	808	839
Nonagricultural industries .....	56,298	56,402	56,391	56,468	56,427	56,297	56,489	56,659	56,666	56,769	56,992	57,659	57,452
Unemployed .....	2,528	2,530	2,422	2,348	2,423	2,387	2,413	2,378	2,389	2,393	2,333	2,251	2,330
Unemployment rate .....	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7	3.8
Not in labor force .....	38,846	38,868	39,044	39,085	39,122	39,313	39,193	39,190	39,211	39,239	39,103	38,968	39,124
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> ..	15,453	15,511	15,569	15,609	15,651	15,690	15,689	15,702	15,781	15,777	15,868	15,909	15,939
Civilian labor force .....	8,200	8,228	8,077	8,178	8,295	8,204	8,255	8,408	8,377	8,274	8,400	8,334	8,475
Percent of population .....	53.1	53.0	51.9	52.4	53.0	52.3	52.6	53.5	53.1	52.4	52.9	52.4	53.2
Employed .....	6,997	7,003	6,990	7,011	7,069	7,042	7,029	7,130	7,059	7,037	7,228	7,046	7,276
Employment-population ratio .....	45.3	45.1	44.9	44.9	45.2	44.9	44.8	45.4	44.7	44.6	45.5	44.3	45.7
Agriculture .....	249	245	232	253	263	260	266	301	338	240	232	179	277
Nonagricultural industries .....	6,748	6,758	6,758	6,758	6,806	6,782	6,763	6,829	6,721	6,797	6,996	6,867	6,999
Unemployed .....	1,203	1,225	1,087	1,167	1,226	1,162	1,226	1,278	1,318	1,237	1,172	1,288	1,199
Unemployment rate .....	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5	14.1
Not in labor force .....	7,253	7,283	7,492	7,431	7,356	7,486	7,434	7,294	7,404	7,503	7,468	7,575	7,464

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> ..	170,917	171,016	171,141	171,257	171,387	171,513	171,655	171,804	171,956	172,084	172,197	172,394	172,491
Civilian labor force .....	115,271	115,184	115,121	115,312	115,208	115,071	115,385	115,751	115,714	115,687	115,996	116,529	116,610
Percent of population .....	67.4	67.4	67.3	67.3	67.2	67.1	67.2	67.4	67.3	67.2	67.4	67.6	67.6
Employed .....	110,731	110,556	110,858	110,959	110,638	110,676	110,848	111,221	111,162	111,304	111,560	112,135	112,189
Employment-population ratio .....	64.8	64.6	64.8	64.8	64.6	64.5	64.6	64.7	64.6	64.7	64.8	65.0	65.0
Unemployed .....	4,540	4,628	4,263	4,353	4,570	4,395	4,537	4,530	4,552	4,383	4,436	4,394	4,420
Unemployment rate .....	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	59,314	59,179	59,324	59,338	59,298	59,406	59,384	59,587	59,579	59,634	59,712	59,751	59,799
Percent of population .....	77.3	77.1	77.2	77.2	77.1	77.2	77.1	77.3	77.2	77.2	77.2	77.5	77.5
Employed .....	57,378	57,201	57,538	57,452	57,348	57,447	57,450	57,615	57,646	57,806	57,813	57,920	57,830
Employment-population ratio .....	74.8	74.5	74.9	74.7	74.6	74.6	74.7	74.7	74.7	74.8	74.8	75.1	75.0
Unemployed .....	1,936	1,978	1,786	1,886	1,950	1,959	1,934	1,972	1,933	1,828	1,899	1,831	1,969
Unemployment rate .....	3.3	3.3	3.0	3.2	3.3	3.3	3.3	3.3	3.2	3.1	3.2	3.1	3.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	49,031	49,028	48,972	49,048	48,930	48,770	49,025	49,108	49,062	49,065	49,230	49,759	49,721
Percent of population .....	59.9	59.9	59.8	59.8	59.6	59.4	59.7	59.8	59.7	59.6	59.8	60.2	60.1
Employed .....	47,283	47,271	47,304	47,423	47,244	47,129	47,321	47,456	47,401	47,415	47,585	48,110	48,109
Employment-population ratio .....	57.7	57.7	57.7	57.8	57.6	57.4	57.6	57.7	57.6	57.6	57.8	58.2	58.2
Unemployed .....	1,748	1,757	1,668	1,625	1,686	1,641	1,704	1,652	1,661	1,650	1,645	1,650	1,612
Unemployment rate .....	3.6	3.6	3.4	3.3	3.4	3.4	3.5	3.4	3.4	3.4	3.3	3.3	3.2
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,926	6,977	6,825	6,926	6,980	6,895	6,976	7,056	7,073	6,988	7,054	7,019	7,090
Percent of population .....	56.3	56.6	55.2	55.8	56.1	55.3	55.8	56.4	56.4	55.7	56.1	55.6	56.1
Employed .....	6,070	6,084	6,016	6,084	6,046	6,100	6,077	6,150	6,115	6,083	6,162	6,105	6,250
Employment-population ratio .....	49.3	49.3	48.6	49.0	48.6	48.9	48.6	49.1	48.8	48.5	49.0	48.4	49.5
Unemployed .....	856	893	809	842	934	795	899	906	958	905	892	913	840
Unemployment rate .....	12.4	12.8	11.9	12.2	13.4	11.5	12.9	12.8	13.5	13.0	12.6	13.0	11.8
Men .....	14.4	14.7	12.9	14.0	14.4	13.2	14.2	14.7	14.1	14.1	14.5	14.1	12.2
Women .....	10.1	10.7	10.7	10.1	12.3	9.7	11.5	10.8	13.0	11.6	10.6	11.9	11.4
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> ..	24,229	24,257	24,289	24,317	24,349	24,381	24,418	24,458	24,496	24,529	24,561	24,665	24,697
Civilian labor force .....	15,834	15,931	15,901	15,760	16,025	16,045	15,937	16,027	16,163	16,201	16,157	16,356	16,242
Percent of population .....	65.4	65.7	65.5	64.8	65.8	65.8	65.3	65.5	66.0	66.0	65.8	66.3	65.8
Employed .....	14,340	14,463	14,477	14,351	14,662	14,511	14,517	14,584	14,776	14,804	14,884	15,085	14,900
Employment-population ratio .....	59.2	59.6	59.6	59.0	60.2	59.5	59.5	59.6	60.3	60.4	60.6	61.2	60.3
Unemployed .....	1,494	1,468	1,424	1,409	1,363	1,534	1,420	1,443	1,387	1,397	1,273	1,271	1,342
Unemployment rate .....	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9	7.8	8.3
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,993	7,037	7,077	7,005	7,080	7,111	7,021	6,999	7,144	7,086	7,063	7,210	7,160
Percent of population .....	72.3	72.7	73.0	72.2	72.9	73.1	72.1	71.7	73.1	72.4	72.0	73.3	72.7
Employed .....	6,448	6,503	6,548	6,523	6,574	6,491	6,487	6,499	6,653	6,590	6,588	6,782	6,682
Employment-population ratio .....	66.7	67.2	67.6	67.2	67.7	66.7	66.6	66.6	68.0	67.3	67.2	68.9	67.8
Unemployed .....	545	534	529	482	506	620	534	500	491	496	475	428	477
Unemployment rate .....	7.8	7.6	7.5	6.9	7.1	8.7	7.6	7.1	6.9	7.0	6.7	5.9	6.7
<b>Women, 20 years and over</b>													
Civilian labor force .....	7,895	7,902	7,830	7,792	7,870	7,916	7,903	7,948	7,992	8,051	8,035	8,114	8,082
Percent of population .....	65.0	65.0	64.4	64.0	64.6	64.9	64.7	64.9	65.2	65.6	65.4	65.7	65.3
Employed .....	7,238	7,256	7,192	7,146	7,255	7,294	7,302	7,320	7,391	7,443	7,474	7,579	7,509
Employment-population ratio .....	59.6	59.7	59.1	58.7	59.5	59.8	59.7	59.8	60.3	60.6	60.8	61.3	60.7
Unemployed .....	657	646	638	646	615	622	601	628	601	608	561	535	573
Unemployment rate .....	8.3	8.2	8.1	8.3	7.8	7.9	7.6	7.9	7.5	7.6	7.0	6.6	7.1

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	946	992	994	963	1,075	1,018	1,013	1,080	1,027	1,064	1,059	1,032	1,000
Percent of population .....	39.1	40.9	40.8	39.5	44.0	41.5	41.3	44.0	41.8	43.3	43.0	41.8	40.5
Employed .....	654	704	737	682	833	726	728	765	732	771	822	725	708
Employment-population ratio .....	27.0	29.0	30.3	27.9	34.1	29.6	29.7	31.1	29.8	31.4	33.4	29.3	28.6
Unemployed .....	292	288	257	281	242	292	285	315	295	293	237	307	293
Unemployment rate .....	30.9	29.0	25.9	29.2	22.5	28.7	28.1	29.2	28.7	27.5	22.4	29.8	29.2
Men .....	34.0	28.5	26.0	31.2	22.4	30.2	29.7	32.7	34.7	33.0	27.3	34.2	31.6
Women .....	28.0	29.5	25.7	27.4	22.6	27.0	26.8	25.7	23.5	22.1	17.6	25.0	27.0
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> ..	20,798	20,851	20,915	20,975	21,036	21,097	21,159	21,224	21,286	21,349	21,405	21,296	21,355
Civilian labor force .....	14,145	14,254	14,289	14,378	14,375	14,267	14,316	14,457	14,437	14,389	14,488	14,511	14,591
Percent of population .....	68.0	68.4	68.3	68.5	68.3	67.6	67.7	68.1	67.8	67.4	67.7	68.1	68.3
Employed .....	13,165	13,263	13,332	13,387	13,301	13,245	13,257	13,394	13,382	13,345	13,383	13,550	13,610
Employment-population ratio .....	63.3	63.6	63.7	63.8	63.2	62.8	62.7	63.1	62.9	62.5	62.5	63.6	63.7
Unemployed .....	980	991	957	991	1,074	1,022	1,059	1,063	1,055	1,044	1,105	960	980
Unemployment rate .....	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6	6.6	6.7

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>Less than a high school diploma</b>													
Civilian noninstitutional population <sup>1</sup> .....	29,228	29,251	29,638	29,931	30,064	29,027	29,204	29,290	28,713	29,084	29,094	28,901	28,112
Civilian labor force .....	12,561	12,516	12,624	12,630	12,784	12,561	12,496	12,563	12,408	12,463	12,500	12,379	12,164
Percent of population .....	43.0	42.8	42.6	42.2	42.5	43.3	42.8	42.9	43.2	42.9	43.0	42.8	43.3
Employed .....	11,670	11,622	11,729	11,762	11,873	11,665	11,612	11,692	11,556	11,574	11,626	11,459	11,257
Employment-population ratio .....	39.9	39.7	39.6	39.3	39.5	40.2	39.8	39.9	40.2	39.8	40.0	39.7	40.0
Unemployed .....	891	894	895	868	911	896	884	871	852	889	874	920	907
Unemployment rate .....	7.1	7.1	7.1	6.9	7.1	7.1	7.1	6.9	6.9	7.1	7.0	7.4	7.5
<b>High school graduates, no college<sup>2</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	57,418	57,885	57,484	57,706	57,446	57,374	57,729	57,589	57,666	57,273	57,115	57,477	57,062
Civilian labor force .....	37,730	37,850	37,412	37,488	37,171	37,290	37,367	37,289	37,540	37,408	37,296	37,590	37,261
Percent of population .....	65.7	65.4	65.1	65.0	64.7	65.0	64.7	64.8	65.1	65.3	65.3	65.4	65.3
Employed .....	36,225	36,262	35,935	36,071	35,681	35,779	35,883	35,783	36,056	35,947	35,873	36,291	35,979
Employment-population ratio .....	63.1	62.6	62.5	62.5	62.1	62.4	62.2	62.1	62.5	62.8	62.8	63.1	63.1
Unemployed .....	1,505	1,588	1,477	1,417	1,490	1,511	1,484	1,506	1,484	1,461	1,423	1,299	1,282
Unemployment rate .....	4.0	4.2	3.9	3.8	4.0	4.1	4.0	4.0	4.0	3.9	3.8	3.5	3.4
<b>Less than a bachelor's degree<sup>3</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	42,527	42,313	42,303	42,024	41,880	42,293	41,842	41,769	42,573	42,863	43,022	43,154	43,911
Civilian labor force .....	31,418	31,459	31,435	31,411	31,283	31,220	31,117	31,271	31,349	31,727	31,800	32,399	32,465
Percent of population .....	73.9	74.3	74.3	74.7	74.7	73.8	74.4	74.9	73.6	74.0	73.9	75.1	73.9
Employed .....	30,448	30,448	30,572	30,447	30,371	30,274	30,231	30,343	30,423	30,825	30,911	31,470	31,462
Employment-population ratio .....	71.6	72.0	72.3	72.5	72.5	71.6	72.3	72.6	71.5	71.9	71.8	72.9	71.6
Unemployed .....	970	1,011	863	964	912	946	886	928	926	902	889	929	1,003
Unemployment rate .....	3.1	3.2	2.7	3.1	2.9	3.0	2.8	3.0	3.0	2.8	2.8	2.9	3.1
<b>College graduates</b>													
Civilian noninstitutional population <sup>1</sup> .....	42,238	42,085	42,197	42,090	42,464	43,309	43,431	43,669	43,520	43,408	43,484	43,516	43,949
Civilian labor force .....	33,742	33,833	34,039	34,028	34,281	34,637	34,739	34,914	34,779	34,554	34,838	34,950	35,040
Percent of population .....	79.9	80.4	80.7	80.8	80.7	80.0	80.0	80.0	79.9	79.6	80.1	80.3	79.7
Employed .....	33,114	33,210	33,456	33,451	33,681	34,051	34,129	34,335	34,108	33,922	34,205	34,325	34,368
Employment-population ratio .....	78.4	78.9	79.3	79.5	79.3	78.6	78.6	78.6	78.4	78.1	78.7	78.9	78.2
Unemployed .....	628	623	583	577	600	586	610	579	671	632	633	624	673
Unemployment rate .....	1.9	1.8	1.7	1.7	1.8	1.7	1.8	1.7	1.9	1.8	1.8	1.8	1.9

<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.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>EMPLOYED</b>													
Full-time workers .....	107,712	107,741	107,992	108,048	107,748	107,856	108,150	108,512	108,561	109,016	109,483	110,307	109,985
Men, 16 years and over .....	62,830	62,841	63,045	63,055	63,108	63,138	63,202	63,216	63,417	63,726	63,829	64,138	63,857
Men, 20 years and over .....	61,557	61,537	61,750	61,721	61,721	61,729	61,808	61,911	62,039	62,312	62,375	62,795	62,493
Women, 16 years and over .....	44,787	44,839	44,910	44,943	44,656	44,845	45,097	45,344	45,154	45,289	45,604	46,042	46,013
Women, 20 years and over .....	43,834	43,841	43,944	43,967	43,756	43,819	44,019	44,265	44,231	44,387	44,675	45,148	45,169
Both sexes, 16 to 19 years .....	2,321	2,363	2,298	2,360	2,271	2,308	2,323	2,336	2,291	2,317	2,433	2,364	2,324
Part-time workers .....	23,241	23,339	23,207	23,239	23,460	23,231	22,975	23,284	23,281	23,249	23,258	23,198	23,157
Men, 16 years and over .....	7,518	7,531	7,594	7,468	7,485	7,496	7,332	7,644	7,490	7,554	7,490	7,236	7,376
Men, 20 years and over .....	5,303	5,307	5,362	5,294	5,256	5,322	5,181	5,364	5,295	5,332	5,272	5,070	5,058
Women, 16 years and over .....	15,736	15,794	15,637	15,769	16,027	15,732	15,638	15,682	15,797	15,690	15,770	15,862	15,780
Women, 20 years and over .....	13,231	13,325	13,160	13,245	13,446	13,258	13,230	13,154	13,197	13,125	13,134	13,348	13,131
Both sexes, 16 to 19 years .....	4,707	4,707	4,685	4,700	4,758	4,651	4,564	4,766	4,789	4,792	4,852	4,780	4,967
<b>UNEMPLOYED</b>													
Looking for full-time work .....	5,093	5,079	4,763	4,877	4,915	4,943	4,919	4,916	4,871	4,736	4,781	4,708	4,929
Men, 16 years and over .....	2,687	2,741	2,538	2,690	2,768	2,823	2,739	2,788	2,698	2,611	2,675	2,529	2,691
Men, 20 years and over .....	2,410	2,449	2,219	2,337	2,399	2,461	2,364	2,383	2,324	2,235	2,319	2,235	2,384
Women, 16 years and over .....	2,330	2,292	2,249	2,176	2,221	2,077	2,209	2,159	2,215	2,179	2,131	2,063	2,167
Women, 20 years and over .....	2,115	2,025	1,991	1,933	1,936	1,918	1,959	1,924	1,944	1,918	1,891	1,802	1,933
Both sexes, 16 to 19 years .....	568	605	553	607	580	564	596	609	603	583	571	671	612
Looking for part-time work .....	1,277	1,386	1,192	1,194	1,288	1,283	1,298	1,298	1,362	1,340	1,263	1,272	1,196
Men, 16 years and over .....	569	569	526	523	564	551	539	571	594	577	581	489	472
Men, 20 years and over .....	220	226	224	196	193	221	205	213	223	219	209	180	208
Women, 16 years and over .....	720	803	705	698	753	749	744	708	748	757	663	752	735
Women, 20 years and over .....	448	530	436	417	482	482	459	424	442	464	412	447	429
Both sexes, 16 to 19 years .....	609	630	532	581	613	580	634	661	697	657	642	645	560
<b>UNEMPLOYMENT RATES<sup>1</sup></b>													
Full-time workers .....	4.5	4.5	4.2	4.3	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.1	4.3
Men, 16 years and over .....	4.1	4.2	3.9	4.1	4.2	4.3	4.2	4.2	4.1	3.9	4.0	3.8	4.0
Men, 20 years and over .....	3.8	3.8	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4	3.7
Women, 16 years and over .....	4.9	4.9	4.8	4.6	4.7	4.4	4.7	4.5	4.7	4.6	4.5	4.3	4.5
Women, 20 years and over .....	4.6	4.4	4.3	4.2	4.2	4.2	4.3	4.2	4.2	4.1	4.1	3.8	4.1
Both sexes, 16 to 19 years .....	19.7	20.4	19.4	20.5	20.3	19.6	20.4	20.7	20.8	20.1	19.0	22.1	20.8
Part-time workers .....	5.2	5.6	4.9	4.9	5.2	5.2	5.3	5.3	5.5	5.4	5.2	5.2	4.9
Men, 16 years and over .....	7.0	7.0	6.5	6.5	7.0	6.8	6.8	7.0	7.3	7.1	7.2	6.3	6.0
Men, 20 years and over .....	4.0	4.1	4.0	3.6	3.5	4.0	3.8	3.8	4.0	3.9	3.8	3.4	3.9
Women, 16 years and over .....	4.4	4.8	4.3	4.2	4.5	4.5	4.5	4.3	4.5	4.6	4.0	4.5	4.5
Women, 20 years and over .....	3.3	3.8	3.2	3.1	3.5	3.5	3.4	3.1	3.2	3.4	3.0	3.2	3.2
Both sexes, 16 to 19 years .....	11.5	11.8	10.2	11.0	11.4	11.1	12.2	12.2	12.7	12.1	11.7	11.9	10.1

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>MARITAL STATUS</b>													
Total .....	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396	133,144
Married men, spouse present .....	42,869	42,789	42,860	42,560	42,648	42,850	42,874	43,170	43,090	43,209	43,227	43,542	43,016
Married women, spouse present .....	32,829	32,853	32,919	32,815	32,820	32,719	32,670	32,891	33,037	32,953	33,093	33,652	33,092
Women who maintain families .....	7,872	7,802	7,829	7,854	7,909	7,875	7,928	7,984	7,940	7,969	8,087	8,076	8,113
<b>OCCUPATION</b>													
Managerial and professional specialty .....	38,210	38,433	38,617	38,681	38,786	39,020	38,942	39,553	39,679	39,459	39,729	39,836	39,531
Technical, sales, and administrative support .....	38,519	38,631	38,568	38,493	38,573	38,513	38,843	38,478	38,431	38,430	38,307	38,846	39,254
Service occupations .....	17,899	17,796	17,527	17,776	17,856	17,683	17,770	17,926	17,692	18,024	17,976	18,070	18,163
Precision production, craft, and repair .....	14,368	14,552	14,566	14,766	14,466	14,334	14,158	14,045	14,192	14,552	14,685	14,751	14,742
Operators, fabricators, and laborers .....	18,526	18,226	18,374	18,284	18,152	18,157	17,968	18,118	18,168	18,067	18,480	18,476	18,021
Farming, forestry, and fishing .....	3,477	3,326	3,494	3,487	3,513	3,519	3,590	3,585	3,604	3,538	3,396	3,422	3,490
<b>CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,936	1,905	1,990	1,920	1,857	2,010	2,111	2,145	2,247	2,005	1,912	1,987	1,895
Self-employed workers .....	1,362	1,264	1,345	1,391	1,445	1,374	1,342	1,290	1,282	1,304	1,304	1,298	1,381
Unpaid family workers .....	42	34	33	50	44	32	31	40	33	40	34	30	44
Nonagricultural industries:													
Wage and salary workers .....	118,704	118,797	118,705	118,852	118,733	118,647	118,840	119,148	119,275	119,718	120,380	121,115	121,066
Private industries .....	100,402	100,673	100,474	100,690	100,266	100,273	100,508	100,700	100,728	101,111	101,694	102,202	102,283
Private households .....	1,017	997	996	992	962	966	871	918	946	969	943	881	849
Other industries .....	99,385	99,676	99,478	99,698	99,304	99,307	99,637	99,782	99,782	100,142	100,751	101,321	101,434
Government .....	18,302	18,124	18,231	18,162	18,467	18,374	18,332	18,448	18,547	18,607	18,686	18,913	18,782
Self-employed workers .....	8,826	8,831	9,064	9,012	8,971	9,060	8,955	9,096	9,030	8,929	8,814	8,830	8,658
Unpaid family workers .....	113	105	119	95	97	91	88	88	95	112	122	121	114
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	3,864	3,866	3,755	3,754	3,792	3,757	3,503	3,419	3,404	3,340	3,417	3,562	3,426
Slack work or business conditions .....	2,145	2,183	2,095	2,119	2,183	2,299	2,019	1,913	2,031	1,910	1,927	2,093	1,984
Could only find part-time work .....	1,415	1,398	1,308	1,317	1,248	1,213	1,188	1,168	1,136	1,157	1,148	1,115	1,141
Part time for noneconomic reasons .....	18,407	18,434	18,296	18,544	18,619	18,589	18,653	18,687	18,667	18,634	18,674	18,485	18,642
Nonagricultural industries:													
Part time for economic reasons .....	3,714	3,698	3,606	3,608	3,618	3,606	3,339	3,191	3,253	3,191	3,257	3,413	3,298
Slack work or business conditions .....	2,044	2,062	2,010	2,033	2,102	2,193	1,926	1,800	1,927	1,824	1,841	1,989	1,906
Could only find part-time work .....	1,390	1,370	1,282	1,286	1,210	1,182	1,155	1,132	1,110	1,130	1,116	1,094	1,108
Part time for noneconomic reasons .....	17,791	17,872	17,653	17,956	17,992	17,982	18,031	18,161	18,107	18,110	18,155	17,921	18,061

<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.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	1998											1999	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total, 16 years and over .....	131,021	130,908	131,280	131,330	131,253	131,176	131,264	131,818	131,858	132,113	132,526	133,396	133,144
16 to 24 years .....	19,540	19,492	19,615	19,568	19,569	19,471	19,490	19,676	19,757	19,705	19,859	19,891	20,081
16 to 19 years .....	6,997	7,003	6,990	7,011	7,069	7,042	7,029	7,130	7,059	7,037	7,228	7,046	7,276
16 to 17 years .....	2,779	2,804	2,797	2,746	2,710	2,752	2,730	2,788	2,721	2,709	2,808	2,751	2,841
18 to 19 years .....	4,206	4,206	4,189	4,264	4,392	4,302	4,286	4,339	4,332	4,340	4,419	4,313	4,413
20 to 24 years .....	12,543	12,489	12,625	12,557	12,500	12,429	12,461	12,546	12,698	12,668	12,631	12,846	12,804
25 years and over .....	111,442	111,397	111,669	111,810	111,681	111,679	111,820	112,115	112,126	112,409	112,654	113,557	113,068
25 to 54 years .....	95,079	95,063	95,168	95,181	95,134	95,102	95,212	95,364	95,309	95,623	95,822	96,713	96,146
55 years and over .....	16,421	16,383	16,478	16,553	16,503	16,647	16,607	16,783	16,771	16,781	16,871	16,836	16,972
Men, 16 years and over .....	70,411	70,295	70,695	70,603	70,592	70,629	70,503	70,841	70,925	71,182	71,204	71,459	71,276
16 to 24 years .....	10,128	10,133	10,213	10,138	10,203	10,118	10,141	10,206	10,246	10,332	10,347	10,320	10,435
16 to 19 years .....	3,484	3,526	3,522	3,519	3,598	3,573	3,563	3,579	3,563	3,609	3,651	3,574	3,699
16 to 17 years .....	1,401	1,433	1,428	1,384	1,381	1,396	1,377	1,393	1,348	1,380	1,405	1,427	1,453
18 to 19 years .....	2,087	2,100	2,101	2,131	2,247	2,180	2,177	2,172	2,213	2,218	2,243	2,170	2,238
20 to 24 years .....	6,644	6,607	6,691	6,619	6,605	6,545	6,578	6,627	6,683	6,723	6,696	6,745	6,736
25 years and over .....	60,258	60,152	60,467	60,502	60,380	60,508	60,444	60,617	60,680	60,840	60,843	61,148	60,843
25 to 54 years .....	51,186	51,160	51,311	51,273	51,182	51,205	51,167	51,232	51,299	51,606	51,502	51,811	51,430
55 years and over .....	9,113	9,015	9,124	9,207	9,162	9,327	9,238	9,386	9,340	9,311	9,374	9,362	9,465
Women, 16 years and over .....	60,610	60,613	60,585	60,727	60,661	60,547	60,761	60,977	60,933	60,931	61,322	61,937	61,869
16 to 24 years .....	9,412	9,359	9,402	9,430	9,366	9,353	9,349	9,470	9,511	9,373	9,512	9,572	9,646
16 to 19 years .....	3,513	3,477	3,468	3,492	3,471	3,469	3,466	3,551	3,496	3,428	3,577	3,471	3,578
16 to 17 years .....	1,378	1,371	1,369	1,362	1,329	1,356	1,353	1,395	1,373	1,329	1,403	1,324	1,388
18 to 19 years .....	2,119	2,106	2,088	2,133	2,145	2,122	2,109	2,167	2,119	2,122	2,176	2,142	2,175
20 to 24 years .....	5,899	5,882	5,934	5,938	5,895	5,884	5,883	5,919	6,015	5,945	5,935	6,101	6,068
25 years and over .....	51,184	51,245	51,202	51,308	51,301	51,171	51,376	51,498	51,446	51,569	51,811	52,410	52,226
25 to 54 years .....	43,893	43,903	43,857	43,908	43,952	43,897	44,045	44,132	44,010	44,017	44,320	44,902	44,715
55 years and over .....	7,308	7,368	7,354	7,346	7,341	7,320	7,369	7,397	7,431	7,470	7,497	7,474	7,508

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total, 16 years and over .....	6,363	6,432	5,952	6,039	6,245	6,231	6,217	6,263	6,258	6,080	6,021	5,950	6,127
16 to 24 years .....	2,350	2,321	2,122	2,215	2,329	2,267	2,366	2,400	2,320	2,171	2,153	2,240	2,274
16 to 19 years .....	1,203	1,225	1,087	1,167	1,226	1,162	1,226	1,278	1,318	1,237	1,172	1,288	1,199
16 to 17 years .....	622	572	521	535	593	513	565	596	607	595	573	619	520
18 to 19 years .....	567	655	576	640	634	646	669	679	704	646	611	653	666
20 to 24 years .....	1,147	1,096	1,035	1,048	1,103	1,105	1,140	1,122	1,002	934	981	952	1,075
25 years and over .....	3,999	4,115	3,815	3,845	3,901	3,930	3,865	3,894	3,931	3,879	3,864	3,743	3,835
25 to 54 years .....	3,561	3,661	3,365	3,385	3,455	3,437	3,419	3,416	3,475	3,377	3,340	3,257	3,359
55 years and over .....	450	476	434	423	432	483	449	464	466	516	517	509	501
Men, 16 years and over .....	3,324	3,362	3,028	3,189	3,274	3,360	3,251	3,361	3,264	3,163	3,233	3,140	3,228
16 to 24 years .....	1,317	1,280	1,135	1,263	1,276	1,289	1,286	1,374	1,255	1,190	1,247	1,241	1,179
16 to 19 years .....	692	685	585	665	678	678	673	754	713	713	717	729	630
16 to 17 years .....	360	322	269	309	356	307	320	352	357	344	349	349	262
18 to 19 years .....	327	364	329	361	332	365	360	386	351	373	364	375	368
20 to 24 years .....	625	595	550	598	598	611	613	620	542	477	530	512	548
25 years and over .....	1,997	2,068	1,898	1,949	1,991	2,068	1,983	1,994	2,006	1,952	1,987	1,900	2,036
25 to 54 years .....	1,734	1,805	1,640	1,677	1,748	1,777	1,739	1,711	1,739	1,652	1,688	1,646	1,750
55 years and over .....	268	275	250	238	238	288	247	286	276	296	300	273	295
Women, 16 years and over .....	3,039	3,070	2,924	2,850	2,971	2,871	2,966	2,902	2,994	2,917	2,788	2,810	2,899
16 to 24 years .....	1,033	1,041	987	952	1,053	978	1,080	1,026	1,065	981	906	999	1,095
16 to 19 years .....	511	540	502	502	548	484	553	524	605	524	455	559	568
16 to 17 years .....	262	250	252	226	237	206	245	244	250	251	224	270	259
18 to 19 years .....	240	291	247	279	302	281	309	293	353	273	247	278	298
20 to 24 years .....	522	501	485	450	505	494	527	502	460	457	451	440	527
25 years and over .....	2,002	2,047	1,917	1,896	1,910	1,862	1,882	1,900	1,925	1,927	1,877	1,842	1,799
25 to 54 years .....	1,827	1,856	1,725	1,708	1,707	1,660	1,680	1,705	1,736	1,725	1,652	1,611	1,609
55 years and over .....	182	201	184	185	194	195	202	178	190	220	217	236	206

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total, 16 years and over .....	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.4
16 to 24 years .....	10.7	10.6	9.8	10.2	10.6	10.4	10.8	10.9	10.5	9.9	9.8	10.1	10.2
16 to 19 years .....	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5	14.1
16 to 17 years .....	18.3	16.9	15.7	16.3	18.0	15.7	17.1	17.6	18.2	18.0	16.9	18.4	15.5
18 to 19 years .....	11.9	13.5	12.1	13.1	12.6	13.1	13.5	13.5	14.0	13.0	12.1	13.1	13.1
20 to 24 years .....	8.4	8.1	7.6	7.7	8.1	8.2	8.4	8.2	7.3	6.9	7.2	6.9	7.7
25 years and over .....	3.5	3.6	3.3	3.3	3.4	3.4	3.3	3.4	3.4	3.3	3.3	3.2	3.3
25 to 54 years .....	3.6	3.7	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.3	3.4
55 years and over .....	2.7	2.8	2.6	2.5	2.6	2.8	2.6	2.7	2.7	3.0	3.0	2.9	2.9
Men, 16 years and over .....	4.5	4.6	4.1	4.3	4.4	4.5	4.4	4.5	4.4	4.3	4.3	4.2	4.3
16 to 24 years .....	11.5	11.2	10.0	11.1	11.1	11.3	11.3	11.9	10.9	10.3	10.8	10.7	10.1
16 to 19 years .....	16.6	16.3	14.2	15.9	15.9	15.9	15.9	17.4	16.7	16.5	16.4	16.9	14.6
16 to 17 years .....	20.4	18.3	15.9	18.3	20.5	18.0	18.9	20.2	20.9	20.0	19.9	19.7	15.3
18 to 19 years .....	13.5	14.8	13.5	14.5	12.9	14.3	14.2	15.1	13.7	14.4	14.0	14.7	14.1
20 to 24 years .....	8.6	8.3	7.6	8.3	8.3	8.5	8.5	8.6	7.5	6.6	7.3	7.1	7.5
25 years and over .....	3.2	3.3	3.0	3.1	3.2	3.3	3.2	3.2	3.2	3.1	3.2	3.0	3.2
25 to 54 years .....	3.3	3.4	3.1	3.2	3.3	3.4	3.3	3.2	3.3	3.1	3.2	3.1	3.3
55 years and over .....	2.9	3.0	2.7	2.5	2.5	3.0	2.6	3.0	2.9	3.1	3.1	2.8	3.0
Women, 16 years and over .....	4.8	4.8	4.6	4.5	4.7	4.5	4.7	4.5	4.7	4.6	4.3	4.3	4.5
16 to 24 years .....	9.9	10.0	9.5	9.2	10.1	9.5	10.4	9.8	10.1	9.5	8.7	9.5	10.2
16 to 19 years .....	12.7	13.4	12.6	12.6	13.6	12.2	13.8	12.9	14.8	13.3	11.3	13.9	13.7
16 to 17 years .....	16.0	15.4	15.5	14.2	15.1	13.2	15.3	14.9	15.4	15.9	13.8	16.9	15.7
18 to 19 years .....	10.2	12.1	10.6	11.6	12.3	11.7	12.8	11.9	14.3	11.4	10.2	11.5	12.1
20 to 24 years .....	8.1	7.8	7.6	7.0	7.9	7.7	8.2	7.8	7.1	7.1	7.1	6.7	8.0
25 years and over .....	3.8	3.8	3.6	3.6	3.6	3.5	3.5	3.6	3.6	3.6	3.5	3.4	3.3
25 to 54 years .....	4.0	4.1	3.8	3.7	3.7	3.6	3.7	3.7	3.8	3.8	3.6	3.5	3.5
55 years and over .....	2.4	2.7	2.4	2.5	2.6	2.6	2.7	2.3	2.5	2.9	2.8	3.1	2.7

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>CHARACTERISTIC</b>													
Total .....	4.6	4.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.4
Men, 20 years and over .....	3.8	3.9	3.5	3.6	3.7	3.8	3.7	3.7	3.6	3.5	3.6	3.4	3.7
Women, 20 years and over .....	4.2	4.2	4.1	3.9	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7	3.8
Both sexes, 16 to 19 years .....	14.7	14.9	13.5	14.3	14.8	14.2	14.9	15.2	15.7	15.0	14.0	15.5	14.1
White .....	3.9	4.0	3.7	3.8	4.0	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8
Black and other .....	8.2	8.1	7.6	7.7	7.6	8.1	7.6	7.9	7.6	7.5	7.0	6.9	7.4
Black .....	9.4	9.2	9.0	8.9	8.5	9.6	8.9	9.0	8.6	8.6	7.9	7.8	8.3
Hispanic origin .....	6.9	7.0	6.7	6.9	7.5	7.2	7.4	7.4	7.3	7.3	7.6	6.6	6.7
Married men, spouse present .....	2.5	2.5	2.3	2.4	2.2	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4
Married women, spouse present .....	3.0	3.2	2.8	2.8	2.9	2.8	3.1	2.7	2.8	2.9	2.8	2.8	2.8
Women who maintain families .....	7.5	7.5	7.5	7.5	7.1	6.9	6.8	7.6	6.9	6.9	6.3	6.1	6.5
<b>OCCUPATION<sup>1</sup></b>													
Managerial and professional specialty .....	2.0	1.8	1.9	1.7	1.7	1.7	1.9	1.8	1.9	1.8	1.8	1.8	1.9
Technical, sales, and administrative support .....	4.0	4.0	3.7	3.9	3.9	3.8	3.7	3.9	3.9	3.7	3.7	3.8	3.9
Precision production, craft, and repair .....	4.3	4.4	3.8	4.4	4.3	4.3	4.5	4.3	4.0	3.8	3.2	3.5	4.4
Operators, fabricators, and laborers .....	6.6	6.8	6.4	6.6	6.9	6.9	6.6	7.0	6.8	6.7	6.7	5.9	6.0
Farming, forestry, and fishing .....	6.4	6.9	6.1	6.5	6.4	6.6	5.9	7.0	5.4	6.3	7.5	7.7	7.8
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers ...	4.7	4.7	4.4	4.5	4.6	4.6	4.7	4.8	4.6	4.5	4.4	4.3	4.3
Goods-producing industries .....	4.8	5.0	4.5	4.6	4.7	4.8	4.8	5.1	4.6	4.6	4.6	4.6	4.7
Mining .....	2.7	3.4	2.9	1.6	4.0	3.9	3.6	3.0	2.4	2.2	4.3	7.4	7.7
Construction .....	8.0	8.4	6.6	8.0	7.9	6.8	7.4	8.6	6.7	7.0	6.4	7.3	7.5
Manufacturing .....	3.8	3.9	3.9	3.6	3.6	4.3	3.9	4.0	3.9	3.8	4.0	3.5	3.7
Durable goods .....	3.0	3.6	3.4	3.0	3.0	4.1	3.5	3.7	3.2	3.2	3.4	3.4	3.3
Nondurable goods .....	4.9	4.3	4.5	4.6	4.6	4.6	4.5	4.6	5.1	4.8	4.9	3.8	4.3
Service-producing industries .....	4.7	4.6	4.4	4.5	4.6	4.6	4.7	4.6	4.7	4.5	4.4	4.2	4.2
Transportation and public utilities .....	3.3	3.3	3.2	3.1	3.5	3.4	3.5	3.5	3.5	3.2	3.2	2.5	3.2
Wholesale and retail trade .....	5.7	5.5	5.4	5.3	5.6	5.6	5.6	5.7	5.6	5.2	5.5	5.2	5.2
Finance, insurance, and real estate .....	2.5	2.5	2.3	2.1	2.2	2.1	2.7	2.4	2.5	2.8	2.8	2.4	2.4
Services .....	4.6	4.7	4.3	4.7	4.6	4.6	4.7	4.5	4.7	4.6	4.1	4.1	4.0
Government workers .....	2.3	2.8	2.0	2.4	2.2	2.4	2.2	2.2	2.2	2.1	2.0	2.2	2.3
Agricultural wage and salary workers .....	8.5	9.2	8.0	8.0	8.4	8.2	7.4	7.9	6.7	7.6	8.3	9.6	11.3

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
<b>NUMBER OF UNEMPLOYED</b>														
Job losers and persons who completed temporary jobs .....	2,827	2,950	2,706	2,822	2,832	2,865	2,834	2,865	2,813	2,758	2,754	2,696	2,738	
On temporary layoff .....	836	966	723	816	851	931	937	909	857	850	841	864	849	
Not on temporary layoff .....	1,991	1,984	1,983	2,006	1,981	1,934	1,897	1,956	1,956	1,908	1,913	1,832	1,889	
Job leavers .....	773	745	641	749	754	770	734	727	730	677	709	699	751	
Reentrants .....	2,206	2,187	2,115	2,081	2,112	2,072	2,124	2,161	2,142	2,130	2,031	1,993	2,110	
New entrants .....	538	544	518	505	517	474	507	501	577	534	504	537	509	
<b>PERCENT DISTRIBUTION</b>														
Job losers and persons who completed temporary jobs .....	44.6	45.9	45.3	45.8	45.6	46.4	45.7	45.8	44.9	45.2	45.9	45.5	44.8	
On temporary layoff .....	13.2	15.0	12.1	13.3	13.7	15.1	15.1	14.5	13.7	13.9	14.0	14.6	13.9	
Not on temporary layoff .....	31.4	30.9	33.2	32.6	31.9	31.3	30.6	31.3	31.2	31.3	31.9	30.9	30.9	
Job leavers .....	12.2	11.6	10.7	12.2	12.1	12.5	11.8	11.6	11.7	11.1	11.8	11.8	12.3	
Reentrants .....	34.8	34.0	35.4	33.8	34.0	33.5	34.3	34.6	34.2	34.9	33.9	33.6	34.5	
New entrants .....	8.5	8.5	8.7	8.2	8.3	7.7	8.2	8.0	9.2	8.8	8.4	9.1	8.3	
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>														
Job losers and persons who completed temporary jobs .....	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.0	
Job leavers .....	.6	.5	.5	.5	.5	.6	.5	.5	.5	.5	.5	.5	.5	
Reentrants .....	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.4	1.5	
New entrants .....	.4	.4	.4	.4	.4	.3	.4	.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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
<b>NUMBER OF UNEMPLOYED</b>														
Less than 5 weeks .....	2,598	2,792	2,626	2,608	2,553	2,626	2,652	2,638	2,754	2,546	2,614	2,353	2,601	
5 to 14 weeks .....	1,931	1,971	1,929	1,967	2,022	1,975	1,956	1,968	1,896	1,983	1,839	2,071	1,944	
15 weeks and over .....	1,804	1,728	1,461	1,509	1,641	1,606	1,644	1,636	1,598	1,611	1,578	1,469	1,550	
15 to 26 weeks .....	849	830	605	671	833	783	810	732	732	752	754	753	766	
27 weeks and over .....	955	898	856	838	808	823	834	904	866	859	824	716	784	
Average (mean) duration, in weeks .....	15.4	14.6	14.5	14.7	14.1	14.3	13.7	14.3	14.1	14.4	14.1	13.4	13.8	
Median duration, in weeks .....	7.1	6.9	6.6	6.1	6.7	6.7	6.8	6.6	5.9	6.7	6.7	6.9	7.0	
<b>PERCENT DISTRIBUTION</b>														
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Less than 5 weeks .....	41.0	43.0	43.7	42.9	41.1	42.3	42.4	42.3	44.1	41.5	43.3	39.9	42.7	
5 to 14 weeks .....	30.5	30.4	32.1	32.3	32.5	31.8	31.3	31.5	30.3	32.3	30.5	35.1	31.9	
15 weeks and over .....	28.5	26.6	24.3	24.8	26.4	25.9	26.3	26.2	25.6	26.2	26.2	24.9	25.4	
15 to 26 weeks .....	13.4	12.8	10.1	11.0	13.4	12.6	13.0	11.7	11.7	12.2	12.5	12.8	12.6	
27 weeks and over .....	15.1	13.8	14.2	13.8	13.0	13.3	13.3	14.5	13.9	14.0	13.7	12.1	12.9	

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	February 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>TOTAL</b>										
16 years and over .....	206,873	138,202	66.8	131,639	63.6	2,894	128,744	6,563	4.7	68,671
16 to 19 years .....	15,939	7,849	49.2	6,699	42.0	184	6,515	1,150	14.6	8,090
16 to 17 years .....	8,005	3,016	37.7	2,522	31.5	74	2,448	494	16.4	4,989
18 to 19 years .....	7,933	4,833	60.9	4,178	52.7	110	4,068	655	13.6	3,100
20 to 24 years .....	17,900	13,624	76.1	12,464	69.6	252	12,212	1,160	8.5	4,276
25 to 54 years .....	117,808	99,322	84.3	95,588	81.1	1,836	93,752	3,734	3.8	18,486
25 to 34 years .....	38,262	32,446	84.8	30,921	80.8	529	30,392	1,525	4.7	5,816
25 to 29 years .....	18,453	15,775	85.5	14,929	80.9	236	14,694	845	5.4	2,679
30 to 34 years .....	19,809	16,672	84.2	15,991	80.7	293	15,698	680	4.1	3,137
35 to 44 years .....	44,434	37,757	85.0	36,450	82.0	732	35,718	1,307	3.5	6,677
35 to 39 years .....	22,400	18,987	84.8	18,360	82.0	362	17,999	626	3.3	3,414
40 to 44 years .....	22,034	18,771	85.2	18,090	82.1	370	17,720	681	3.6	3,263
45 to 54 years .....	35,112	29,118	82.9	28,217	80.4	575	27,642	901	3.1	5,994
45 to 49 years .....	19,114	16,161	84.5	15,629	81.8	325	15,304	532	3.3	2,953
50 to 54 years .....	15,998	12,957	81.0	12,588	78.7	250	12,338	369	2.8	3,041
55 to 64 years .....	22,870	13,576	59.4	13,176	57.6	378	12,798	400	2.9	9,294
55 to 59 years .....	12,620	8,836	70.0	8,574	67.9	236	8,338	263	3.0	3,783
60 to 64 years .....	10,250	4,740	46.2	4,602	44.9	142	4,460	138	2.9	5,510
65 years and over .....	32,356	3,831	11.8	3,711	11.5	245	3,466	120	3.1	28,525
65 to 69 years .....	9,304	2,139	23.0	2,064	22.2	124	1,940	75	3.5	7,164
70 to 74 years .....	8,515	1,015	11.9	997	11.7	66	930	18	1.8	7,500
75 years and over .....	14,537	677	4.7	650	4.5	54	596	27	4.0	13,860
<b>Men</b>										
16 years and over .....	99,279	73,718	74.3	70,084	70.6	2,097	67,987	3,634	4.9	25,562
16 to 19 years .....	8,091	3,972	49.1	3,354	41.5	143	3,211	618	15.6	4,119
16 to 17 years .....	4,093	1,514	37.0	1,261	30.8	51	1,210	253	16.7	2,579
18 to 19 years .....	3,998	2,459	61.5	2,093	52.3	93	2,000	366	14.9	1,540
20 to 24 years .....	8,917	7,137	80.0	6,499	72.9	191	6,308	638	8.9	1,780
25 to 54 years .....	57,617	52,960	91.9	50,910	88.4	1,313	49,597	2,050	3.9	4,657
25 to 34 years .....	18,707	17,401	93.0	16,596	88.7	415	16,181	804	4.6	1,306
25 to 29 years .....	8,974	8,359	93.1	7,920	88.2	188	7,731	439	5.3	616
30 to 34 years .....	9,732	9,042	92.9	8,676	89.2	227	8,450	365	4.0	691
35 to 44 years .....	21,847	20,356	93.2	19,641	89.9	482	19,159	714	3.5	1,491
35 to 39 years .....	11,003	10,312	93.7	9,973	90.6	265	9,709	339	3.3	691
40 to 44 years .....	10,843	10,044	92.6	9,668	89.2	218	9,450	376	3.7	799
45 to 54 years .....	17,064	15,203	89.1	14,672	86.0	416	14,257	531	3.5	1,861
45 to 49 years .....	9,304	8,424	90.5	8,110	87.2	234	7,877	314	3.7	880
50 to 54 years .....	7,760	6,779	87.4	6,562	84.6	182	6,380	217	3.2	981
55 to 64 years .....	10,946	7,456	68.1	7,197	65.7	244	6,953	259	3.5	3,490
55 to 59 years .....	6,097	4,791	78.6	4,625	75.9	144	4,481	167	3.5	1,306
60 to 64 years .....	4,849	2,665	55.0	2,572	53.0	99	2,472	93	3.5	2,184
65 years and over .....	13,708	2,193	16.0	2,124	15.5	206	1,918	69	3.1	11,515
65 to 69 years .....	4,289	1,209	28.2	1,167	27.2	104	1,063	43	3.5	3,079
70 to 74 years .....	3,743	579	15.5	566	15.1	55	510	14	2.3	3,164
75 years and over .....	5,676	404	7.1	392	6.9	46	345	13	3.1	5,272
<b>Women</b>										
16 years and over .....	107,593	64,484	59.9	61,555	57.2	798	60,757	2,929	4.5	43,109
16 to 19 years .....	7,848	3,877	49.4	3,345	42.6	40	3,305	531	13.7	3,971
16 to 17 years .....	3,913	1,502	38.4	1,261	32.2	23	1,237	242	16.1	2,411
18 to 19 years .....	3,935	2,374	60.3	2,085	53.0	17	2,068	289	12.2	1,561
20 to 24 years .....	8,983	6,487	72.2	5,965	66.4	61	5,903	522	8.0	2,496
25 to 54 years .....	60,191	46,362	77.0	44,678	74.2	523	44,155	1,684	3.6	13,829
25 to 34 years .....	19,555	15,046	76.9	14,324	73.3	114	14,211	721	4.8	4,509
25 to 29 years .....	9,479	7,416	78.2	7,010	74.0	47	6,962	406	5.5	2,063
30 to 34 years .....	10,076	7,630	75.7	7,315	72.6	66	7,249	315	4.1	2,446
35 to 44 years .....	22,587	17,401	77.0	16,809	74.4	250	16,559	592	3.4	5,186
35 to 39 years .....	11,397	8,675	76.1	8,387	73.6	97	8,290	288	3.3	2,722
40 to 44 years .....	11,190	8,727	78.0	8,422	75.3	153	8,269	305	3.5	2,464
45 to 54 years .....	18,048	13,915	77.1	13,545	75.0	159	13,385	370	2.7	4,133
45 to 49 years .....	9,810	7,737	78.9	7,518	76.6	91	7,427	218	2.8	2,074
50 to 54 years .....	8,238	6,178	75.0	6,026	73.2	68	5,958	152	2.5	2,060
55 to 64 years .....	11,924	6,120	51.3	5,980	50.1	134	5,845	141	2.3	5,803
55 to 59 years .....	6,523	4,045	62.0	3,949	60.5	92	3,857	96	2.4	2,478
60 to 64 years .....	5,401	2,075	38.4	2,031	37.6	43	1,988	45	2.2	3,326
65 years and over .....	18,648	1,639	8.8	1,587	8.5	39	1,548	51	3.1	17,010
65 to 69 years .....	5,015	930	18.5	898	17.9	20	877	32	3.5	4,085
70 to 74 years .....	4,772	436	9.1	431	9.0	11	420	5	1.1	4,336
75 years and over .....	8,861	273	3.1	258	2.9	7	251	14	5.2	8,588

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	February 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 .....	172,491	115,821	67.1	110,949	64.3	2,704	108,244	4,873	4.2	56,670
16 to 19 years .....	12,636	6,657	52.7	5,809	46.0	170	5,639	848	12.7	5,979
16 to 17 years .....	6,296	2,589	41.1	2,214	35.2	74	2,140	375	14.5	3,707
18 to 19 years .....	6,340	4,068	64.2	3,596	56.7	97	3,499	473	11.6	2,272
20 to 24 years .....	14,279	11,213	78.5	10,404	72.9	226	10,178	809	7.2	3,067
25 to 54 years .....	97,146	82,624	85.1	79,846	82.2	1,736	78,110	2,778	3.4	14,522
25 to 34 years .....	30,759	26,298	85.5	25,210	82.0	498	24,712	1,089	4.1	4,461
25 to 29 years .....	14,754	12,683	86.0	12,085	81.9	222	11,863	598	4.7	2,071
30 to 34 years .....	16,006	13,615	85.1	13,125	82.0	276	12,849	491	3.6	2,390
35 to 44 years .....	36,711	31,442	85.6	30,487	83.0	686	29,801	955	3.0	5,269
35 to 39 years .....	18,437	15,755	85.5	15,317	83.1	345	14,972	438	2.8	2,682
40 to 44 years .....	18,274	15,687	85.8	15,170	83.0	341	14,829	517	3.3	2,587
45 to 54 years .....	29,676	24,884	83.9	24,149	81.4	551	23,598	735	3.0	4,792
45 to 49 years .....	16,007	13,714	85.7	13,276	82.9	307	12,969	438	3.2	2,293
50 to 54 years .....	13,668	11,170	81.7	10,873	79.6	244	10,629	297	2.7	2,498
55 to 64 years .....	19,684	11,874	60.3	11,545	58.7	343	11,202	329	2.8	7,810
55 to 59 years .....	10,813	7,691	71.1	7,475	69.1	214	7,262	216	2.8	3,122
60 to 64 years .....	8,871	4,183	47.2	4,070	45.9	129	3,941	113	2.7	4,688
65 years and over .....	28,746	3,453	12.0	3,344	11.6	230	3,114	109	3.2	25,292
65 to 69 years .....	8,037	1,900	23.6	1,829	22.8	120	1,709	71	3.8	6,137
70 to 74 years .....	7,574	934	12.3	917	12.1	56	861	18	1.9	6,640
75 years and over .....	13,135	619	4.7	599	4.6	54	545	21	3.3	12,516
<b>Men</b>										
16 years and over .....	83,618	62,842	75.2	60,016	71.8	1,952	58,064	2,827	4.5	20,776
16 to 19 years .....	6,465	3,399	52.6	2,938	45.4	130	2,808	462	13.6	3,066
16 to 17 years .....	3,242	1,322	40.8	1,128	34.8	51	1,077	195	14.7	1,920
18 to 19 years .....	3,223	2,077	64.4	1,810	56.2	79	1,731	267	12.8	1,146
20 to 24 years .....	7,186	5,989	83.4	5,523	76.9	177	5,346	466	7.8	1,196
25 to 54 years .....	48,240	44,878	93.0	43,260	89.7	1,238	42,023	1,618	3.6	3,361
25 to 34 years .....	15,274	14,401	94.3	13,778	90.2	387	13,392	622	4.3	873
25 to 29 years .....	7,309	6,871	94.0	6,521	89.2	177	6,344	349	5.1	438
30 to 34 years .....	7,965	7,530	94.5	7,257	91.1	210	7,048	273	3.6	435
35 to 44 years .....	18,318	17,251	94.2	16,701	91.2	457	16,244	550	3.2	1,067
35 to 39 years .....	9,201	8,699	94.5	8,453	91.9	255	8,199	245	2.8	502
40 to 44 years .....	9,117	8,552	93.8	8,248	90.5	202	8,046	304	3.6	565
45 to 54 years .....	14,648	13,227	90.3	12,781	87.3	394	12,387	446	3.4	1,421
45 to 49 years .....	7,932	7,277	91.7	7,004	88.3	216	6,788	273	3.8	655
50 to 54 years .....	6,716	5,949	88.6	5,777	86.0	178	5,599	172	2.9	766
55 to 64 years .....	9,489	6,587	69.4	6,370	67.1	217	6,153	218	3.3	2,902
55 to 59 years .....	5,251	4,221	80.4	4,081	77.7	130	3,951	140	3.3	1,030
60 to 64 years .....	4,238	2,267	55.8	2,289	54.0	86	2,203	78	3.3	1,871
65 years and over .....	12,239	1,988	16.2	1,924	15.7	191	1,734	64	3.2	10,251
65 to 69 years .....	3,748	1,069	28.5	1,030	27.5	100	930	39	3.6	2,679
70 to 74 years .....	3,368	544	16.2	531	15.8	44	487	13	2.4	2,823
75 years and over .....	5,123	375	7.3	363	7.1	46	317	12	3.1	4,748
<b>Women</b>										
16 years and over .....	88,873	52,979	59.6	50,933	57.3	752	50,181	2,046	3.9	35,894
16 to 19 years .....	6,171	3,258	52.8	2,872	46.5	40	2,831	386	11.8	2,913
16 to 17 years .....	3,053	1,266	41.5	1,086	35.6	23	1,063	180	14.2	1,787
18 to 19 years .....	3,118	1,991	63.9	1,785	57.3	17	1,768	206	10.3	1,126
20 to 24 years .....	7,094	5,223	73.6	4,880	68.8	49	4,832	343	6.6	1,870
25 to 54 years .....	48,906	37,746	77.2	36,585	74.8	498	36,088	1,160	3.1	11,161
25 to 34 years .....	15,486	11,897	76.8	11,431	73.8	111	11,320	466	3.9	3,588
25 to 29 years .....	7,445	5,813	78.1	5,564	74.7	45	5,519	249	4.3	1,633
30 to 34 years .....	8,041	6,085	75.7	5,867	73.0	66	5,801	218	3.6	1,956
35 to 44 years .....	18,393	14,191	77.2	13,786	75.0	230	13,556	405	2.9	4,202
35 to 39 years .....	9,236	7,056	76.4	6,864	74.3	91	6,773	193	2.7	2,180
40 to 44 years .....	9,157	7,134	77.9	6,922	75.6	139	6,783	212	3.0	2,022
45 to 54 years .....	15,028	11,657	77.6	11,368	75.6	157	11,211	289	2.5	3,370
45 to 49 years .....	8,075	6,437	79.7	6,272	77.7	91	6,181	165	2.6	1,638
50 to 54 years .....	6,953	5,221	75.1	5,096	73.3	66	5,030	124	2.4	1,732
55 to 64 years .....	10,195	5,287	51.9	5,176	50.8	126	5,049	111	2.1	4,909
55 to 59 years .....	5,562	3,470	62.4	3,395	61.0	84	3,311	76	2.2	2,092
60 to 64 years .....	4,633	1,816	39.2	1,781	38.4	43	1,738	35	1.9	2,817
65 years and over .....	16,507	1,466	8.9	1,420	8.6	39	1,381	46	3.1	15,041
65 to 69 years .....	4,289	831	19.4	799	18.6	20	778	32	3.9	3,458
70 to 74 years .....	4,206	390	9.3	385	9.2	11	374	5	1.2	3,816
75 years and over .....	8,011	244	3.1	236	2.9	7	228	9	3.6	7,767

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	February 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>BLACK</b>										
16 years and over .....	24,697	16,004	64.8	14,622	59.2	124	14,499	1,381	8.6	8,694
16 to 19 years .....	2,471	897	36.3	637	25.8	10	627	261	29.0	1,574
16 to 17 years .....	1,243	307	24.7	204	16.4	-	204	103	33.4	936
18 to 19 years .....	1,228	590	48.0	432	35.2	10	422	158	26.7	638
20 to 24 years .....	2,592	1,719	66.3	1,430	55.2	15	1,415	290	16.8	872
25 to 54 years .....	14,638	11,975	81.8	11,218	76.6	76	11,142	757	6.3	2,663
25 to 34 years .....	5,215	4,407	84.5	4,057	77.8	25	4,032	350	7.9	808
25 to 29 years .....	2,556	2,235	87.5	2,040	79.8	10	2,030	195	8.7	321
30 to 34 years .....	2,660	2,173	81.7	2,017	75.8	15	2,002	155	7.2	487
35 to 44 years .....	5,576	4,614	82.7	4,334	77.7	34	4,300	280	6.1	963
35 to 39 years .....	2,851	2,352	82.5	2,195	77.0	10	2,184	158	6.7	498
40 to 44 years .....	2,726	2,261	83.0	2,139	78.5	24	2,115	122	5.4	464
45 to 54 years .....	3,846	2,953	76.8	2,827	73.5	17	2,810	127	4.3	893
45 to 49 years .....	2,232	1,747	78.3	1,672	74.9	15	1,657	76	4.3	484
50 to 54 years .....	1,614	1,206	74.7	1,155	71.6	2	1,153	51	4.2	408
55 to 64 years .....	2,283	1,161	50.9	1,097	48.1	18	1,079	64	5.5	1,121
55 to 59 years .....	1,257	788	62.7	746	59.3	9	737	42	5.4	469
60 to 64 years .....	1,026	373	36.4	351	34.2	9	342	22	5.9	653
65 years and over .....	2,714	251	9.2	241	8.9	5	236	10	4.0	2,463
65 to 69 years .....	919	144	15.7	141	15.3	-	141	4	2.5	774
70 to 74 years .....	709	60	8.5	60	8.5	5	56	-	(1)	649
75 years and over .....	1,087	46	4.2	40	3.7	-	40	6	(1)	1,040
<b>Men</b>										
16 years and over .....	11,068	7,478	67.6	6,821	61.6	97	6,724	657	8.8	3,590
16 to 19 years .....	1,214	428	35.3	292	24.1	10	282	136	31.8	786
16 to 17 years .....	624	133	21.3	86	13.7	-	86	47	35.5	491
18 to 19 years .....	590	296	50.1	206	35.0	10	196	89	30.1	294
20 to 24 years .....	1,186	762	64.2	627	52.9	9	618	135	17.7	424
25 to 54 years .....	6,608	5,639	85.3	5,292	80.1	60	5,232	346	6.1	970
25 to 34 years .....	2,328	2,048	88.0	1,904	81.8	22	1,882	144	7.0	280
25 to 29 years .....	1,127	1,042	92.4	970	86.1	8	963	71	6.8	86
30 to 34 years .....	1,201	1,006	83.8	934	77.8	15	919	72	7.2	195
35 to 44 years .....	2,549	2,213	86.8	2,074	81.4	23	2,051	139	6.3	336
35 to 39 years .....	1,298	1,142	88.0	1,060	81.7	9	1,050	82	7.2	156
40 to 44 years .....	1,252	1,071	85.6	1,014	81.0	14	1,001	57	5.3	180
45 to 54 years .....	1,731	1,378	79.6	1,314	75.9	15	1,299	64	4.6	353
45 to 49 years .....	1,010	822	81.5	788	78.1	15	773	35	4.2	187
50 to 54 years .....	721	555	76.9	526	72.9	23	526	29	5.2	166
55 to 64 years .....	989	532	53.8	497	50.2	13	483	35	6.6	457
55 to 59 years .....	554	354	63.9	331	59.8	5	327	23	6.4	200
60 to 64 years .....	435	178	40.9	165	38.0	9	156	13	7.1	257
65 years and over .....	1,071	118	11.0	113	10.6	5	109	5	4.0	953
65 to 69 years .....	380	70	18.4	66	17.5	-	66	4	(1)	310
70 to 74 years .....	295	24	8.2	24	8.2	5	20	-	(1)	271
75 years and over .....	396	23	5.9	22	5.7	-	22	1	(1)	372
<b>Women</b>										
16 years and over .....	13,629	8,526	62.6	7,801	57.2	27	7,775	724	8.5	5,104
16 to 19 years .....	1,257	469	37.3	345	27.4	-	345	124	26.5	788
16 to 17 years .....	619	175	28.2	119	19.2	-	119	56	31.9	444
18 to 19 years .....	638	294	46.1	226	35.4	-	226	69	23.3	344
20 to 24 years .....	1,406	958	68.1	803	57.1	6	797	155	16.2	448
25 to 54 years .....	8,029	6,336	78.9	5,926	73.8	15	5,910	410	6.5	1,693
25 to 34 years .....	2,887	2,360	81.7	2,153	74.6	2	2,151	207	8.8	528
25 to 29 years .....	1,428	1,193	83.5	1,070	74.9	2	1,067	124	10.4	235
30 to 34 years .....	1,459	1,167	79.9	1,083	74.3	-	1,083	83	7.1	293
35 to 44 years .....	3,027	2,401	79.3	2,260	74.7	11	2,249	141	5.9	626
35 to 39 years .....	1,553	1,211	77.9	1,135	73.1	1	1,134	75	6.2	343
40 to 44 years .....	1,474	1,190	80.7	1,125	76.3	10	1,115	65	5.5	284
45 to 54 years .....	2,115	1,576	74.5	1,513	71.5	2	1,511	63	4.0	539
45 to 49 years .....	1,222	925	75.7	884	72.3	-	884	41	4.5	297
50 to 54 years .....	893	651	72.9	629	70.5	2	627	22	3.4	242
55 to 64 years .....	1,294	629	48.7	600	46.4	5	596	29	4.6	664
55 to 59 years .....	703	434	61.8	415	59.0	5	410	20	4.5	269
60 to 64 years .....	591	195	33.1	186	31.5	-	186	9	4.8	396
65 years and over .....	1,643	133	8.1	128	7.8	-	128	5	4.0	1,510
65 to 69 years .....	538	74	13.8	74	13.8	-	74	-	(1)	464
70 to 74 years .....	414	36	8.7	36	8.7	-	36	-	(1)	378
75 years and over .....	691	23	3.3	17	2.5	-	17	5	(1)	668

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

the household survey.

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

**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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
<b>TOTAL</b>								
Civilian noninstitutional population .....	204,400	206,873	90,476	91,189	98,471	99,746	15,453	15,939
Civilian labor force .....	136,286	138,202	69,104	69,746	59,606	60,608	7,575	7,849
Percent of population .....	66.7	66.8	76.4	76.5	60.5	60.8	49.0	49.2
Employed .....	129,482	131,639	66,049	66,730	57,011	58,210	6,422	6,699
Agriculture .....	2,922	2,894	2,035	1,953	722	757	164	184
Nonagricultural industries .....	126,560	128,744	64,014	64,777	56,289	57,452	6,258	6,515
Unemployed .....	6,804	6,563	3,055	3,016	2,595	2,398	1,153	1,150
Unemployment rate .....	5.0	4.7	4.4	4.3	4.4	4.0	15.2	14.6
Not in labor force .....	68,115	68,671	21,372	21,443	38,865	39,138	7,877	8,090
<b>White</b>								
Civilian noninstitutional population .....	170,917	172,491	76,729	77,153	81,885	82,702	12,304	12,636
Civilian labor force .....	114,489	115,821	58,974	59,443	49,029	49,721	6,486	6,657
Percent of population .....	67.0	67.1	76.9	77.0	59.9	60.1	52.7	52.7
Employed .....	109,504	110,949	56,651	57,078	47,232	48,061	5,621	5,809
Agriculture .....	2,737	2,704	1,893	1,822	679	712	164	170
Nonagricultural industries .....	106,768	108,244	54,758	55,256	46,553	47,350	5,456	5,639
Unemployed .....	4,985	4,873	2,322	2,365	1,797	1,660	866	848
Unemployment rate .....	4.4	4.2	3.9	4.0	3.7	3.3	13.3	12.7
Not in labor force .....	56,428	56,670	17,755	17,710	32,855	32,981	5,818	5,979
<b>Black</b>								
Civilian noninstitutional population .....	24,229	24,697	9,670	9,854	12,139	12,372	2,420	2,471
Civilian labor force .....	15,618	16,004	6,900	7,050	7,876	8,057	842	897
Percent of population .....	64.5	64.8	71.4	71.5	64.9	65.1	34.8	36.3
Employed .....	14,080	14,622	6,306	6,529	7,192	7,457	581	637
Agriculture .....	107	124	89	87	18	27	-	10
Nonagricultural industries .....	13,973	14,499	6,217	6,442	7,174	7,430	581	627
Unemployed .....	1,538	1,381	594	521	684	600	260	261
Unemployment rate .....	9.9	8.6	8.6	7.4	8.7	7.4	30.9	29.0
Not in labor force .....	8,611	8,694	2,770	2,804	4,263	4,315	1,579	1,574

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	February 1999									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	18,996	9,322	49.1	8,374	1,591	6,783	948	182	766	10.2
16 to 19 years .....	12,796	5,558	43.4	4,862	441	4,422	696	100	597	12.5
20 to 24 years .....	6,201	3,763	60.7	3,512	1,151	2,361	252	82	169	6.7
High school .....	9,880	3,968	40.2	3,422	241	3,181	546	69	477	13.8
College .....	9,116	5,354	58.7	4,952	1,350	3,602	402	113	289	7.5
Full-time students .....	7,666	4,102	53.5	3,787	605	3,182	315	72	243	7.7
Part-time students .....	1,450	1,251	86.3	1,164	745	420	87	41	46	7.0
Men, 16 to 24 years .....	9,457	4,427	46.8	3,944	920	3,023	484	76	407	10.9
16 to 19 years .....	6,390	2,619	41.0	2,265	261	2,004	354	44	310	13.5
20 to 24 years .....	3,066	1,808	59.0	1,679	659	1,020	130	33	97	7.2
High school .....	5,116	2,002	39.1	1,726	169	1,557	276	25	251	13.8
College .....	4,341	2,425	55.9	2,218	752	1,466	207	51	156	8.5
Full-time students .....	3,682	1,850	50.2	1,678	372	1,306	172	33	139	9.3
Part-time students .....	659	575	87.3	540	379	160	36	18	18	6.2
Women, 16 to 24 years .....	9,540	4,894	51.3	4,430	671	3,759	464	106	358	9.5
16 to 19 years .....	6,405	2,940	45.9	2,597	179	2,418	342	56	286	11.6
20 to 24 years .....	3,135	1,955	62.4	1,833	492	1,341	122	50	72	6.2
High school .....	4,764	1,966	41.3	1,696	73	1,624	270	44	226	13.7
College .....	4,775	2,929	61.3	2,734	598	2,136	195	62	132	6.6
Full-time students .....	3,984	2,252	56.5	2,109	233	1,876	143	39	104	6.4
Part-time students .....	791	676	85.5	625	366	259	51	23	28	7.6
<b>White</b>										
Total, 16 to 24 years .....	14,973	7,852	52.4	7,165	1,330	5,835	687	129	558	8.7
16 to 19 years .....	10,178	4,757	46.7	4,224	362	3,862	533	84	449	11.2
20 to 24 years .....	4,794	3,095	64.6	2,942	968	1,974	154	45	109	5.0
Men .....	7,495	3,778	50.4	3,414	791	2,624	364	58	306	9.6
Women .....	7,478	4,074	54.5	3,751	539	3,212	323	71	252	7.9
High school .....	7,769	3,381	43.5	2,973	200	2,774	408	49	358	12.1
College .....	7,203	4,471	62.1	4,192	1,130	3,062	279	80	200	6.3
Full-time students .....	6,055	3,466	57.2	3,246	508	2,737	221	48	172	6.4
Part-time students .....	1,149	1,005	87.5	946	622	325	59	31	27	5.8
<b>Black</b>										
Total, 16 to 24 years .....	2,828	1,010	35.7	798	174	624	212	44	168	21.0
16 to 19 years .....	1,914	597	31.2	458	65	393	139	16	124	23.3
20 to 24 years .....	914	413	45.2	340	109	231	73	28	45	17.7
Men .....	1,368	434	31.7	334	82	252	100	19	81	23.1
Women .....	1,460	577	39.5	464	92	372	112	25	87	19.5
High school .....	1,549	418	27.0	303	27	275	116	20	96	27.7
College .....	1,279	592	46.3	495	146	349	97	24	72	16.3
Full-time students .....	1,092	437	40.0	366	76	290	71	14	57	16.3
Part-time students .....	187	155	83.1	129	70	59	26	10	16	16.6
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,244	961	42.8	805	237	569	156	46	110	16.2
16 to 19 years .....	1,638	576	35.2	454	85	369	123	34	89	21.3
20 to 24 years .....	607	385	63.4	352	152	200	33	12	21	8.6
Men .....	1,144	473	41.3	409	144	265	64	10	53	13.5
Women .....	1,100	488	44.4	396	92	304	92	36	56	18.9
High school .....	1,366	432	31.6	338	73	265	94	22	71	21.7
College .....	878	529	60.3	467	164	303	62	24	38	11.8
Full-time students .....	650	345	53.1	307	69	238	38	9	29	11.0
Part-time students .....	229	184	80.7	160	94	66	25	15	10	13.3

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	February 1999									
	Civilian noninstitutional population	Civilian labor force								Percent of labor force
		Total	Percent of population	Employed			Unemployed			
				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 .....	14,843	12,151	81.9	10,789	9,062	1,728	1,362	1,199	163	11.2
16 to 19 years .....	3,143	2,290	72.9	1,837	1,316	521	453	387	66	19.8
20 to 24 years .....	11,700	9,861	84.3	8,952	7,746	1,207	908	812	96	9.2
Less than a high school diploma .....	3,503	2,297	65.6	1,769	1,413	356	529	482	46	23.0
High school graduates, no college .....	6,693	5,622	84.0	5,018	4,181	837	603	512	92	10.7
Less than a bachelor's degree .....	3,180	2,814	88.5	2,639	2,215	424	175	154	21	6.2
College graduates .....	1,467	1,418	96.7	1,363	1,253	111	55	51	4	3.9
Men, 16 to 24 years .....	7,551	6,682	88.5	5,910	5,250	660	773	729	44	11.6
16 to 19 years .....	1,701	1,353	79.6	1,089	847	242	265	245	20	19.6
20 to 24 years .....	5,851	5,329	91.1	4,821	4,403	418	508	484	24	9.5
Less than a high school diploma .....	1,921	1,527	79.5	1,212	1,032	181	314	307	8	20.6
High school graduates, no college .....	3,533	3,191	90.3	2,845	2,558	287	346	318	27	10.8
Less than a bachelor's degree .....	1,511	1,389	91.9	1,306	1,147	159	82	77	6	5.9
College graduates .....	586	575	98.2	545	513	32	30	27	3	5.2
Women, 16 to 24 years .....	7,291	5,469	75.0	4,880	3,812	1,068	589	470	119	10.8
16 to 19 years .....	1,442	937	65.0	748	469	279	189	142	46	20.2
20 to 24 years .....	5,849	4,532	77.5	4,132	3,343	789	400	327	73	8.8
Less than a high school diploma .....	1,581	771	48.7	556	381	175	214	176	39	27.8
High school graduates, no college .....	3,160	2,430	76.9	2,173	1,623	550	258	193	64	10.6
Less than a bachelor's degree .....	1,669	1,425	85.4	1,333	1,068	265	92	77	15	6.5
College graduates .....	881	843	95.7	818	740	78	25	24	1	2.9
<b>White</b>										
Total, 16 to 24 years .....	11,943	10,017	83.9	9,048	7,610	1,438	969	858	112	9.7
16 to 19 years .....	2,457	1,900	77.3	1,586	1,140	446	314	265	49	16.5
20 to 24 years .....	9,485	8,117	85.6	7,462	6,470	992	655	592	63	8.1
Men .....	6,156	5,610	91.1	5,047	4,496	551	564	526	37	10.0
Women .....	5,787	4,407	76.2	4,001	3,114	887	406	331	75	9.2
Less than a high school diploma .....	2,681	1,848	68.9	1,488	1,202	286	360	334	26	19.5
High school graduates, no college .....	5,381	4,588	85.3	4,167	3,470	696	422	357	64	9.2
Less than a bachelor's degree .....	2,571	2,308	89.8	2,175	1,822	353	133	116	17	5.8
College graduates .....	1,310	1,273	97.2	1,218	1,115	102	55	51	4	4.3
<b>Black</b>										
Total, 16 to 24 years .....	2,235	1,606	71.9	1,268	1,035	234	338	294	44	21.0
16 to 19 years .....	557	300	53.9	179	119	60	121	107	14	40.4
20 to 24 years .....	1,677	1,306	77.9	1,090	916	174	216	187	29	16.6
Men .....	1,032	756	73.3	585	495	91	171	169	2	22.6
Women .....	1,203	850	70.7	683	540	143	167	125	42	19.6
Less than a high school diploma .....	699	368	52.7	220	161	59	148	135	13	40.3
High school graduates, no college .....	1,029	799	77.7	643	529	113	157	129	27	19.6
Less than a bachelor's degree .....	466	397	85.3	364	306	58	33	29	3	8.3
College graduates .....	41	41	( <sup>1</sup> )	41	38	3	-	-	-	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,628	2,054	78.1	1,803	1,558	245	251	237	14	12.2
16 to 19 years .....	641	440	68.7	344	274	70	97	87	10	22.0
20 to 24 years .....	1,987	1,613	81.2	1,459	1,285	175	154	150	4	9.5
Men .....	1,384	1,259	91.0	1,122	1,015	106	138	134	4	10.9
Women .....	1,244	794	63.8	681	543	138	113	103	10	14.2
Less than a high school diploma .....	1,135	774	68.2	624	549	75	150	143	6	19.3
High school graduates, no college .....	996	837	84.0	761	657	104	76	69	7	9.0
Less than a bachelor's degree .....	411	358	87.2	336	282	53	22	21	1	6.2
College graduates .....	87	85	97.6	82	70	12	3	3	-	3.7

<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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
<b>TOTAL</b>												
Civilian noninstitutional population ...	171,412	173,034	81,695	82,272	89,717	90,762	144,542	145,576	19,277	19,635	16,052	16,482
Civilian labor force .....	115,269	116,729	61,975	62,608	53,294	54,121	96,931	97,951	13,022	13,387	11,145	11,451
Percent of population .....	67.2	67.5	75.9	76.1	59.4	59.6	67.1	67.3	67.6	68.2	69.4	69.5
Employed .....	110,861	112,475	59,647	60,230	51,214	52,245	93,627	94,735	12,097	12,556	10,500	10,812
Employment-population ratio .....	64.7	65.0	73.0	73.2	57.1	57.6	64.8	65.1	62.8	63.9	65.4	65.6
Unemployed .....	4,408	4,254	2,329	2,378	2,080	1,876	3,303	3,216	926	831	645	639
Unemployment rate .....	3.8	3.6	3.8	3.8	3.9	3.5	3.4	3.3	7.1	6.2	5.8	5.6
<b>Less than a high school diploma</b>												
Civilian noninstitutional population ...	29,228	28,112	13,948	13,265	15,280	14,847	23,238	22,506	4,691	4,381	7,079	6,989
Civilian labor force .....	12,303	11,917	7,541	7,223	4,762	4,693	9,840	9,594	1,871	1,727	4,071	4,024
Percent of population .....	42.1	42.4	54.1	54.5	31.2	31.6	42.3	42.6	39.9	39.4	57.5	57.6
Employed .....	11,303	10,897	6,967	6,605	4,336	4,292	9,129	8,814	1,621	1,542	3,729	3,657
Employment-population ratio .....	38.7	38.8	49.9	49.8	28.4	28.9	39.3	39.2	34.5	35.2	52.7	52.3
Unemployed .....	1,000	1,020	574	619	426	401	710	781	250	185	342	367
Unemployment rate .....	8.1	8.6	7.6	8.6	8.9	8.5	7.2	8.1	13.4	10.7	8.4	9.1
<b>High school graduates, no college</b>												
Civilian noninstitutional population ...	57,418	57,062	26,079	25,878	31,339	31,184	48,662	48,374	6,816	6,714	4,365	4,445
Civilian labor force .....	37,527	37,063	19,787	19,502	17,740	17,561	31,361	31,121	4,813	4,677	3,297	3,309
Percent of population .....	65.4	65.0	75.9	75.4	56.6	56.3	64.4	64.3	70.6	69.7	75.5	74.4
Employed .....	35,794	35,583	18,876	18,672	16,918	16,911	30,068	30,013	4,437	4,367	3,103	3,148
Employment-population ratio .....	62.3	62.4	72.4	72.2	54.0	54.2	61.8	62.0	65.1	65.0	71.1	70.8
Unemployed .....	1,734	1,479	911	829	822	650	1,294	1,107	377	310	193	161
Unemployment rate .....	4.6	4.0	4.6	4.3	4.6	3.7	4.1	3.6	7.8	6.6	5.9	4.9
<b>Less than a bachelor's degree<sup>1</sup></b>												
Civilian noninstitutional population ...	42,527	43,911	19,694	20,346	22,833	23,566	36,079	36,963	4,910	5,266	2,804	3,125
Civilian labor force .....	31,580	32,601	15,999	16,496	15,581	16,105	26,509	27,145	3,927	4,205	2,253	2,493
Percent of population .....	74.3	74.2	81.2	81.1	68.2	68.3	73.5	73.4	80.0	79.9	80.4	79.8
Employed .....	30,538	31,525	15,499	15,945	15,039	15,579	25,720	26,349	3,708	3,971	2,180	2,428
Employment-population ratio .....	71.8	71.8	78.7	78.4	65.9	66.1	71.3	71.3	75.5	75.4	77.7	77.7
Unemployed .....	1,042	1,077	500	551	542	526	789	797	219	234	73	65
Unemployment rate .....	3.3	3.3	3.1	3.3	3.5	3.3	3.0	2.9	5.6	5.6	3.3	2.6
<b>Some college, no degree</b>												
Civilian noninstitutional population ...	29,765	30,676	14,163	14,533	15,602	16,143	25,026	25,585	3,688	3,952	2,039	2,341
Civilian labor force .....	21,375	22,211	11,196	11,486	10,179	10,725	17,730	18,244	2,876	3,120	1,595	1,867
Percent of population .....	71.8	72.4	79.0	79.0	65.2	66.4	70.8	71.3	78.0	78.9	78.2	79.7
Employed .....	20,628	21,393	10,816	11,071	9,812	10,322	17,174	17,650	2,713	2,931	1,540	1,821
Employment-population ratio .....	69.3	69.7	76.4	76.2	62.9	63.9	68.6	69.0	73.6	74.2	75.5	77.8
Unemployed .....	747	818	380	415	367	403	556	594	163	189	55	45
Unemployment rate .....	3.5	3.7	3.4	3.6	3.6	3.8	3.1	3.3	5.7	6.1	3.5	2.4
<b>Associate degree</b>												
Civilian noninstitutional population ...	12,762	13,235	5,531	5,813	7,230	7,423	11,053	11,378	1,222	1,314	765	784
Civilian labor force .....	10,205	10,390	4,803	5,010	5,402	5,380	8,779	8,902	1,051	1,085	658	626
Percent of population .....	80.0	78.5	86.8	86.2	74.7	72.5	79.4	78.2	86.0	82.6	86.0	79.9
Employed .....	9,910	10,131	4,683	4,874	5,227	5,258	8,546	8,699	995	1,040	640	606
Employment-population ratio .....	77.7	76.5	84.7	83.8	72.3	70.8	77.3	76.5	81.4	79.1	83.7	77.4
Unemployed .....	295	258	120	136	175	122	233	203	56	45	18	20
Unemployment rate .....	2.9	2.5	2.5	2.7	3.2	2.3	2.7	2.3	5.3	4.2	2.7	3.2
<b>College graduates</b>												
Civilian noninstitutional population ...	42,238	43,949	21,974	22,783	20,265	21,166	36,563	37,733	2,859	3,274	1,804	1,923
Civilian labor force .....	33,859	35,149	18,648	19,388	15,211	15,761	29,220	30,091	2,411	2,778	1,525	1,626
Percent of population .....	80.2	80.0	84.9	85.1	75.1	74.5	79.9	79.7	84.3	84.8	84.5	84.6
Employed .....	33,227	34,471	18,305	19,008	14,922	15,462	28,710	29,559	2,331	2,675	1,488	1,579
Employment-population ratio .....	78.7	78.4	83.3	83.4	73.6	73.1	78.5	78.3	81.5	81.7	82.5	82.1
Unemployed .....	632	678	343	379	289	299	510	531	80	102	37	47
Unemployment rate .....	1.9	1.9	1.8	2.0	1.9	1.9	1.7	1.8	3.3	3.7	2.4	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	February 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 .....	107,932	95,318	9,782	2,832	23,707	2,278	20,194	1,235	5,211	1,352
16 to 19 years .....	1,757	1,473	240	43	4,943	240	4,530	173	487	663
16 to 17 years .....	161	131	23	7	2,361	33	2,247	81	73	421
18 to 19 years .....	1,596	1,343	217	36	2,582	207	2,283	92	414	241
20 years and over .....	106,176	93,845	9,542	2,789	18,764	2,038	15,664	1,062	4,725	689
20 to 24 years .....	8,896	7,909	833	154	3,568	425	3,014	128	894	266
25 years and over .....	97,279	85,937	8,708	2,635	15,196	1,613	12,650	933	3,830	424
25 to 54 years .....	84,609	74,973	7,494	2,142	10,979	1,425	8,904	650	3,443	291
55 years and over .....	12,671	10,964	1,214	493	4,217	188	3,746	283	387	133
<b>Men, 16 years and over</b> .....	62,477	56,015	4,951	1,511	7,607	944	6,284	379	3,061	574
16 to 19 years .....	1,109	959	135	15	2,245	126	2,027	92	288	330
16 to 17 years .....	61,368	55,056	4,816	1,496	5,362	818	4,257	286	2,772	244
20 to 24 years .....	5,062	4,535	435	92	1,438	187	1,214	37	517	121
25 years and over .....	56,307	50,521	4,382	1,404	3,924	631	3,043	249	2,255	123
25 to 54 years .....	48,698	43,849	3,711	1,138	2,212	554	1,536	122	1,996	53
55 years and over .....	7,609	6,671	671	266	1,712	77	1,507	128	259	69
<b>Women, 16 years and over</b> .....	45,455	39,303	4,831	1,321	16,100	1,334	13,910	856	2,151	778
16 to 19 years .....	648	514	106	28	2,697	114	2,503	80	198	333
20 years and over .....	44,807	38,789	4,725	1,293	13,402	1,220	11,407	775	1,952	446
20 to 24 years .....	3,835	3,373	399	62	2,130	238	1,800	91	377	145
25 years and over .....	40,973	35,416	4,326	1,230	11,272	982	9,607	684	1,575	301
25 to 54 years .....	35,911	31,123	3,783	1,004	8,768	871	7,368	528	1,447	237
55 years and over .....	5,062	4,292	543	226	2,505	111	2,239	156	128	64
<b>White</b>										
<b>Men, 16 years and over</b> .....	53,536	47,955	4,253	1,328	6,480	760	5,390	330	2,378	448
16 to 19 years .....	965	841	109	15	1,973	110	1,797	65	207	255
20 years and over .....	52,571	47,114	4,143	1,313	4,507	649	3,593	265	2,172	193
20 to 24 years .....	4,321	3,868	381	73	1,202	145	1,021	36	377	89
25 years and over .....	48,249	43,246	3,763	1,240	3,305	504	2,572	229	1,794	105
25 to 54 years .....	41,486	37,336	3,159	990	1,774	437	1,235	102	1,579	39
55 years and over .....	6,763	5,910	603	250	1,531	67	1,337	127	216	65
<b>Women, 16 years and over</b> .....	36,831	31,858	3,880	1,092	14,102	1,033	12,304	765	1,485	561
16 to 19 years .....	537	427	88	22	2,335	101	2,171	63	142	243
20 years and over .....	36,294	31,431	3,792	1,070	11,767	932	10,133	702	1,342	318
20 to 24 years .....	3,117	2,769	304	44	1,764	186	1,504	75	260	83
25 years and over .....	33,177	28,662	3,488	1,027	10,004	747	8,629	628	1,083	234
25 to 54 years .....	28,835	24,986	3,014	835	7,750	660	6,610	480	979	181
55 years and over .....	4,342	3,676	474	192	2,253	86	2,019	148	103	53
<b>Black</b>										
<b>Men, 16 years and over</b> .....	6,051	5,442	480	129	769	130	608	31	560	97
16 to 19 years .....	102	85	17	-	190	10	164	16	74	62
20 years and over .....	5,949	5,357	463	129	580	121	444	15	486	35
20 to 24 years .....	474	422	41	11	153	33	119	1	113	21
25 years and over .....	5,475	4,934	422	118	427	88	325	14	373	13
25 to 54 years .....	4,987	4,498	378	111	305	85	206	14	335	11
55 years and over .....	488	436	45	7	121	2	119	-	38	2
<b>Women, 16 years and over</b> .....	6,449	5,531	756	162	1,353	233	1,063	57	543	181
16 to 19 years .....	81	74	4	4	263	7	247	8	49	76
20 years and over .....	6,367	5,457	752	158	1,089	225	816	48	494	105
20 to 24 years .....	551	453	79	19	252	42	199	12	102	53
25 years and over .....	5,817	5,005	673	139	837	183	617	36	392	52
25 to 54 years .....	5,274	4,546	617	112	651	164	455	32	368	42
55 years and over .....	543	459	57	27	186	19	162	5	24	10

<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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
Total .....	129,482	131,639	69,197	70,084	66,049	66,730	60,285	61,555	57,011	58,210
Managerial and professional specialty .....	38,297	39,607	19,494	19,953	19,397	19,823	18,803	19,653	18,656	19,503
Executive, administrative, and managerial .....	18,449	19,181	10,132	10,462	10,088	10,417	8,318	8,719	8,254	8,672
Officials and administrators, public administration .....	657	738	401	423	401	423	256	315	256	315
Other executive, administrative, and managerial .....	13,176	13,642	7,777	8,016	7,737	7,973	5,399	5,626	5,346	5,588
Management-related occupations .....	4,616	4,800	1,953	2,023	1,950	2,021	2,663	2,777	2,652	2,769
Professional specialty .....	19,847	20,426	9,362	9,492	9,309	9,406	10,485	10,934	10,402	10,831
Engineers .....	1,987	2,072	1,803	1,855	1,803	1,851	184	218	184	218
Mathematical and computer scientists .....	1,750	1,682	1,276	1,107	1,276	1,102	475	575	475	575
Natural scientists .....	477	570	313	406	313	406	164	164	164	164
Health diagnosing occupations .....	1,024	1,010	776	801	776	801	248	209	248	209
Health assessment and treating occupations .....	2,860	2,938	428	425	428	425	2,433	2,512	2,432	2,510
Teachers, college and university .....	940	1,106	544	637	538	626	396	469	393	455
Teachers, except college and university .....	5,099	5,371	1,238	1,400	1,223	1,376	3,861	3,971	3,816	3,916
Lawyers and judges .....	901	900	659	655	659	655	242	244	242	244
Other professional specialty occupations .....	4,809	4,777	2,325	2,205	2,293	2,162	2,484	2,573	2,449	2,540
Technical, sales, and administrative support .....	38,260	38,979	13,686	14,297	12,901	13,412	24,574	24,683	22,772	22,973
Technicians and related support .....	4,263	4,179	2,008	1,997	1,964	1,961	2,254	2,182	2,209	2,156
Health technologists and technicians .....	1,660	1,608	293	314	287	306	1,367	1,294	1,351	1,280
Engineering and science technicians .....	1,379	1,288	1,050	939	1,021	921	329	349	318	339
Technicians, except health, engineering, and science .....	1,224	1,283	665	745	656	733	558	538	540	537
Sales occupations .....	15,274	15,970	7,679	8,279	7,147	7,696	7,595	7,691	6,418	6,590
Supervisors and proprietors .....	4,517	4,968	2,668	3,026	2,655	3,009	1,849	1,942	1,820	1,912
Sales representatives, finance and business services .....	2,606	2,728	1,472	1,596	1,445	1,563	1,134	1,132	1,099	1,092
Sales representatives, commodities, except retail .....	1,529	1,501	1,143	1,091	1,138	1,084	386	411	379	406
Sales workers, retail and personal services .....	6,539	6,689	2,372	2,536	1,885	2,013	4,167	4,153	3,066	3,127
Sales-related occupations .....	82	83	24	30	24	27	58	53	54	53
Administrative support, including clerical .....	18,723	18,831	3,999	4,021	3,790	3,755	14,724	14,810	14,144	14,228
Supervisors .....	691	645	283	261	283	261	408	384	405	383
Computer equipment operators .....	374	351	162	146	160	132	211	205	208	203
Secretaries, stenographers, and typists .....	3,616	3,527	81	79	76	74	3,535	3,447	3,412	3,354
Financial records processing .....	2,292	2,284	205	223	198	214	2,086	2,061	2,065	2,026
Mail and message distributing .....	989	989	607	565	583	558	382	423	364	417
Other administrative support, including clerical .....	10,763	11,036	2,660	2,746	2,491	2,515	8,103	8,290	7,691	7,844
Service occupations .....	17,752	18,000	7,101	7,050	6,231	6,115	10,652	10,950	9,580	9,745
Private household .....	886	763	49	43	43	36	837	720	753	651
Protective service .....	2,422	2,467	1,997	2,011	1,976	1,967	424	456	404	432
Service, except private household and protective .....	14,444	14,770	5,054	4,996	4,212	4,112	9,391	9,774	8,423	8,662
Food service .....	6,014	6,134	2,589	2,482	1,919	1,796	3,425	3,652	2,763	2,905
Health service .....	2,491	2,562	302	257	289	245	2,189	2,305	2,075	2,185
Cleaning and building service .....	3,091	2,976	1,697	1,641	1,584	1,533	1,394	1,335	1,336	1,288
Personal service .....	2,848	3,098	465	616	419	538	2,383	2,482	2,249	2,284
Precision production, craft, and repair .....	14,094	14,477	12,957	13,183	12,676	12,920	1,138	1,294	1,123	1,265
Mechanics and repairers .....	4,620	5,025	4,444	4,788	4,326	4,680	175	236	175	229
Construction trades .....	5,504	5,539	5,408	5,403	5,287	5,288	96	136	92	128
Other precision production, craft, and repair .....	3,971	3,913	3,105	2,991	3,063	2,951	866	922	856	908
Operators, fabricators, and laborers .....	18,151	17,648	13,613	13,307	12,643	12,326	4,539	4,341	4,328	4,138
Machine operators, assemblers, and inspectors .....	8,013	7,406	5,002	4,680	4,810	4,503	3,011	2,726	2,929	2,648
Transportation and material moving occupations .....	5,269	5,298	4,713	4,730	4,605	4,614	556	568	543	565
Motor vehicle operators .....	4,030	4,085	3,547	3,575	3,470	3,475	483	510	470	508
Other transportation and material moving occupations .....	1,239	1,213	1,166	1,155	1,135	1,139	73	58	73	58
Handlers, equipment cleaners, helpers, and laborers .....	4,869	4,944	3,897	3,897	3,227	3,209	971	1,048	856	925
Construction laborers .....	732	825	707	781	654	720	25	43	25	41
Other handlers, equipment cleaners, helpers, and laborers .....	4,136	4,120	3,190	3,116	2,573	2,489	946	1,004	831	884
Farming, forestry, and fishing .....	2,927	2,928	2,348	2,294	2,202	2,135	580	634	553	585
Farm operators and managers .....	1,090	1,070	852	804	846	801	238	267	238	265
Other farming, forestry, and fishing occupations .....	1,838	1,858	1,496	1,490	1,356	1,335	342	367	315	320

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



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	129,482	131,639	69,197	70,084	60,285	61,555
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	29.6	30.1	28.2	28.5	31.2	31.9
Executive, administrative, and managerial .....	14.2	14.6	14.6	14.9	13.8	14.2
Professional specialty .....	15.3	15.5	13.5	13.5	17.4	17.8
Technical, sales, and administrative support .....	29.5	29.6	19.8	20.4	40.8	40.1
Technicians and related support .....	3.3	3.2	2.9	2.8	3.7	3.5
Sales occupations .....	11.8	12.1	11.1	11.8	12.6	12.5
Administrative support, including clerical .....	14.5	14.3	5.8	5.7	24.4	24.1
Service occupations .....	13.7	13.7	10.3	10.1	17.7	17.8
Private household .....	.7	.6	.1	.1	1.4	1.2
Protective service .....	1.9	1.9	2.9	2.9	.7	.7
Service, except private household and protective .....	11.2	11.2	7.3	7.1	15.6	15.9
Precision production, craft, and repair .....	10.9	11.0	18.7	18.8	1.9	2.1
Operators, fabricators, and laborers .....	14.0	13.4	19.7	19.0	7.5	7.1
Machine operators, assemblers, and inspectors .....	6.2	5.6	7.2	6.7	5.0	4.4
Transportation and material moving occupations .....	4.1	4.0	6.8	6.7	.9	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.8	3.8	5.6	5.6	1.6	1.7
Farming, forestry, and fishing .....	2.3	2.2	3.4	3.3	1.0	1.0
<b>White</b>						
Total, 16 years and over (thousands) .....	109,504	110,949	59,454	60,016	50,051	50,933
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	30.7	31.0	29.1	29.4	32.6	32.9
Executive, administrative, and managerial .....	15.0	15.2	15.4	15.7	14.6	14.5
Professional specialty .....	15.7	15.9	13.7	13.7	18.0	18.4
Technical, sales, and administrative support .....	29.5	29.6	19.6	20.2	41.2	40.7
Technicians and related support .....	3.3	3.1	2.9	2.8	3.8	3.6
Sales occupations .....	12.1	12.4	11.4	12.1	12.9	12.7
Administrative support, including clerical .....	14.1	14.1	5.3	5.4	24.5	24.4
Service occupations .....	12.6	12.6	9.3	9.0	16.5	16.7
Private household .....	.6	.6	.1	.1	1.3	1.2
Protective service .....	1.7	1.7	2.7	2.6	.6	.6
Service, except private household and protective .....	10.3	10.3	6.6	6.3	14.6	14.9
Precision production, craft, and repair .....	11.4	11.5	19.6	19.7	1.7	1.9
Operators, fabricators, and laborers .....	13.3	12.8	18.7	18.1	6.9	6.6
Machine operators, assemblers, and inspectors .....	5.8	5.3	6.9	6.3	4.5	4.1
Transportation and material moving occupations .....	3.9	3.9	6.5	6.5	.9	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.6	3.6	5.3	5.3	1.6	1.6
Farming, forestry, and fishing .....	2.5	2.4	3.7	3.5	1.1	1.2
<b>Black</b>						
Total, 16 years and over (thousands) .....	14,080	14,622	6,562	6,821	7,518	7,801
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	20.1	21.6	17.3	17.9	22.6	24.8
Executive, administrative, and managerial .....	8.6	10.4	8.4	8.7	8.8	11.9
Professional specialty .....	11.5	11.2	8.9	9.3	13.8	13.0
Technical, sales, and administrative support .....	30.0	29.6	19.6	19.5	39.0	38.5
Technicians and related support .....	2.9	3.1	2.5	3.1	3.2	3.0
Sales occupations .....	9.6	9.9	8.4	8.3	10.6	11.3
Administrative support, including clerical .....	17.5	16.7	8.8	8.1	25.2	24.2
Service occupations .....	21.3	21.8	16.8	18.3	25.2	24.9
Private household .....	1.2	.5	.1	( <sup>1</sup> )	2.1	1.0
Protective service .....	3.3	3.4	5.0	5.5	1.8	1.7
Service, except private household and protective .....	16.9	17.8	11.7	12.7	21.4	22.2
Precision production, craft, and repair .....	7.7	8.0	14.1	14.1	2.2	2.6
Operators, fabricators, and laborers .....	19.9	17.8	30.4	28.1	10.8	8.8
Machine operators, assemblers, and inspectors .....	8.9	7.2	10.6	9.1	7.4	5.5
Transportation and material moving occupations .....	5.8	5.6	10.8	10.5	1.4	1.4
Handlers, equipment cleaners, helpers, and laborers .....	5.2	5.0	9.0	8.5	2.0	2.0
Farming, forestry, and fishing .....	1.0	1.2	1.8	2.1	.2	.3

<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	February 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 .....	2,894	108	96	65	18	121	-	19	17	8	41	12	2,389
Mining .....	528	76	54	14	8	25	-	5	200	24	98	20	2
Construction .....	8,304	1,287	149	68	49	416	-	18	4,875	96	434	903	9
Manufacturing .....	20,313	2,866	2,037	641	778	2,035	-	221	4,022	6,042	645	947	79
Durable goods .....	12,562	1,764	1,375	451	381	1,131	-	111	2,823	3,628	324	500	75
Nondurable goods .....	7,751	1,103	662	190	397	904	-	110	1,199	2,414	321	446	4
Transportation and public utilities .....	9,495	1,259	503	359	295	2,516	-	299	1,351	109	2,313	480	11
Wholesale and retail trade .....	27,515	2,722	579	261	1,148	2,311	-	5,143	1,450	313	1,141	2,028	86
Wholesale trade .....	5,242	665	128	59	2,076	831	-	25	344	100	507	448	59
Retail trade .....	22,273	2,057	452	202	9,406	1,480	-	5,118	1,106	213	633	1,580	27
Finance, insurance, and real estate .....	8,732	2,606	372	209	2,118	2,775	-	328	200	15	9	45	56
Services .....	47,814	6,800	15,767	2,334	1,207	7,319	763	9,375	2,184	770	577	446	272
Private households .....	837	1	2	-	-	10	763	43	3	-	-	9	6
Other service industries .....	46,977	6,800	15,765	2,334	1,207	7,309	-	9,332	2,180	770	577	437	266
Professional services .....	32,337	4,251	13,675	1,945	172	5,430	-	5,759	478	160	316	76	75
Public administration .....	6,042	1,456	867	227	15	1,313	-	1,829	177	28	41	64	25

<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	February 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 .....	1,646	1,220	28	120,119	101,093	832	100,261	19,027	8,511	114
16 to 19 years .....	160	9	14	6,452	6,114	78	6,036	338	57	6
16 to 17 years .....	61	5	8	2,418	2,315	48	2,267	103	24	6
18 to 19 years .....	100	4	6	4,034	3,799	30	3,769	235	33	1
20 to 24 years .....	232	16	4	11,916	10,878	86	10,791	1,038	282	14
25 to 34 years .....	365	163	1	28,940	25,238	162	25,075	3,702	1,440	12
35 to 44 years .....	446	285	1	33,166	27,706	181	27,525	5,460	2,532	21
45 to 54 years .....	279	290	6	25,342	19,666	159	19,506	5,677	2,280	20
55 to 64 years .....	107	268	2	11,451	9,114	122	8,993	2,336	1,323	25
65 years and over .....	57	187	-	2,853	2,378	43	2,335	475	596	17
Men, 16 years and over .....	1,172	908	16	62,766	54,368	64	54,304	8,399	5,195	26
16 to 19 years .....	126	6	11	3,167	2,993	7	2,986	174	40	4
16 to 17 years .....	40	3	8	1,188	1,132	4	1,128	56	19	4
18 to 19 years .....	86	3	3	1,979	1,861	3	1,857	118	21	1
20 to 24 years .....	171	16	4	6,142	5,695	3	5,693	447	161	5
25 to 34 years .....	277	138	1	15,373	13,691	16	13,675	1,682	807	1
35 to 44 years .....	289	193	-	17,648	15,264	21	15,243	2,384	1,508	4
45 to 54 years .....	206	210	-	12,809	10,429	12	10,417	2,380	1,448	-
55 to 64 years .....	63	180	-	6,120	4,999	5	4,995	1,121	827	6
65 years and over .....	42	164	-	1,508	1,296	-	1,296	212	404	6
Women, 16 years and over .....	474	311	13	57,353	46,725	767	45,958	10,628	3,316	89
16 to 19 years .....	35	3	3	3,285	3,121	70	3,050	164	18	2
16 to 17 years .....	21	2	-	1,230	1,182	44	1,138	48	5	2
18 to 19 years .....	13	1	3	2,055	1,939	27	1,912	116	13	-
20 to 24 years .....	61	-	-	5,774	5,182	84	5,099	591	121	9
25 to 34 years .....	88	25	-	13,567	11,546	146	11,400	2,021	633	11
35 to 44 years .....	157	92	1	15,518	12,442	160	12,282	3,076	1,024	17
45 to 54 years .....	73	80	6	12,533	9,237	147	9,089	3,297	832	20
55 to 64 years .....	44	88	2	5,331	4,115	117	3,998	1,215	496	19
65 years and over .....	16	23	-	1,345	1,082	43	1,039	264	192	11

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	February 1999					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	127,572	2,702	124,871	100.0	100.0	100.0
1 to 34 hours .....	31,395	913	30,482	24.6	33.8	24.4
1 to 4 hours .....	1,196	85	1,111	.9	3.1	.9
5 to 14 hours .....	5,363	210	5,153	4.2	7.8	4.1
15 to 29 hours .....	15,332	412	14,920	12.0	15.3	11.9
30 to 34 hours .....	9,504	206	9,298	7.4	7.6	7.4
35 hours and over .....	96,177	1,789	94,389	75.4	66.2	75.6
35 to 39 hours .....	8,810	119	8,691	6.9	4.4	7.0
40 hours .....	47,433	723	46,709	37.2	26.8	37.4
41 hours and over .....	39,935	947	38,988	31.3	35.0	31.2
41 to 48 hours .....	14,735	198	14,538	11.6	7.3	11.6
49 to 59 hours .....	15,054	291	14,763	11.8	10.8	11.8
60 hours and over .....	10,145	458	9,687	8.0	16.9	7.8
Average hours, total at work .....	39.3	39.7	39.3	-	-	-
Average hours, persons who usually work full time .....	43.3	45.7	43.3	-	-	-

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	February 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 .....	31,395	9,782	21,613	30,482	9,439	21,043
Economic reasons .....	3,594	1,462	2,132	3,443	1,364	2,078
Slack work or business conditions .....	2,174	1,221	953	2,085	1,160	924
Could only find part-time work .....	1,132	-	1,132	1,109	-	1,109
Seasonal work .....	144	96	48	107	61	45
Job started or ended during week .....	144	144	-	143	143	-
Noneconomic reasons .....	27,801	8,320	19,481	27,039	8,075	18,964
Child-care problems .....	887	141	746	876	141	735
Other family or personal obligations .....	5,944	887	5,057	5,775	865	4,910
Health or medical limitations .....	628	-	628	609	-	609
In school or training .....	7,289	94	7,195	7,151	90	7,061
Retired or Social Security limit on earnings .....	1,915	-	1,915	1,803	-	1,803
Vacation or personal day .....	2,467	2,467	-	2,403	2,403	-
Holiday, legal or religious .....	774	774	-	769	769	-
Weather-related curtailment .....	386	386	-	328	328	-
All other reasons .....	7,511	3,572	3,939	7,325	3,479	3,847
Average hours:						
Economic reasons .....	23.2	24.4	22.3	23.2	24.6	22.3
Other reasons .....	21.3	26.0	19.3	21.4	26.1	19.4

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	February 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 .....	124,871	30,482	3,443	8,075	18,964	94,389	39.3	43.3
Wage and salary workers .....	116,779	27,817	3,073	7,592	17,152	88,961	39.3	43.1
Mining .....	500	28	7	19	2	471	47.6	47.8
Construction .....	6,630	1,248	309	635	304	5,382	40.4	41.7
Manufacturing .....	19,495	2,183	309	1,187	687	17,312	42.5	43.5
Durable goods .....	12,106	1,187	149	710	328	10,919	43.1	43.8
Nondurable goods .....	7,389	996	159	477	360	6,393	41.6	43.0
Transportation and public utilities .....	8,736	1,404	164	601	639	7,332	42.1	44.0
Wholesale and retail trade .....	25,153	8,525	992	1,185	6,348	16,628	36.8	43.4
Finance, insurance, and real estate .....	7,900	1,293	68	500	724	6,607	40.6	42.8
Service industries .....	42,511	12,241	1,196	2,870	8,175	30,271	37.9	43.0
Private households .....	804	470	86	45	339	334	28.4	41.1
All other industries .....	41,707	11,770	1,110	2,824	7,836	29,937	38.1	43.0
Public administration .....	5,854	896	28	595	273	4,959	40.9	42.1
Self-employed workers .....	7,978	2,586	370	482	1,735	5,391	39.4	46.1
Unpaid family workers .....	114	78	-	1	77	36	30.3	( <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	February 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 .....	124,871	30,482	3,443	8,075	18,964	94,389	39.3	43.3
16 to 19 years .....	6,301	4,855	308	154	4,394	1,446	22.6	39.0
16 to 17 years .....	2,360	2,232	40	13	2,179	129	16.2	36.8
18 to 19 years .....	3,941	2,623	268	141	2,215	1,317	26.5	39.2
20 years and over .....	118,570	25,627	3,135	7,921	14,571	92,943	40.2	43.3
20 to 24 years .....	11,937	4,066	570	621	2,876	7,871	35.6	41.4
25 years and over .....	106,632	21,560	2,566	7,300	11,694	85,072	40.7	43.5
25 to 54 years .....	91,087	16,822	2,216	6,324	8,282	74,265	41.2	43.6
55 years and over .....	15,546	4,739	349	977	3,412	10,807	37.6	43.2
<b>Men, 16 years and over</b> .....	66,226	11,365	1,662	3,857	5,847	54,861	42.1	44.7
16 to 19 years .....	3,105	2,190	174	71	1,945	915	24.5	39.8
16 to 17 years .....	1,159	1,072	31	5	1,036	88	16.9	38.3
18 to 19 years .....	1,946	1,118	143	66	909	827	29.1	39.9
20 years and over .....	63,121	9,175	1,488	3,785	3,902	53,946	43.0	44.8
20 to 24 years .....	6,188	1,728	290	295	1,143	4,459	37.8	42.5
25 years and over .....	56,933	7,447	1,198	3,491	2,758	49,486	43.6	45.0
25 to 54 years .....	48,422	5,425	1,040	2,967	1,418	42,997	44.2	45.1
55 years and over .....	8,511	2,022	157	524	1,340	6,489	40.1	44.3
<b>Women, 16 years and over</b> .....	58,645	19,117	1,781	4,218	13,118	39,528	36.0	41.3
16 to 19 years .....	3,196	2,665	134	83	2,449	531	20.8	37.8
16 to 17 years .....	1,201	1,160	9	8	1,144	41	15.5	( <sup>1</sup> )
18 to 19 years .....	1,995	1,505	125	75	1,305	490	24.0	38.1
20 years and over .....	55,449	16,452	1,647	4,136	10,669	38,997	36.9	41.4
20 to 24 years .....	5,749	2,338	280	326	1,733	3,412	33.1	40.1
25 years and over .....	49,700	14,114	1,368	3,810	8,936	35,586	37.3	41.5
25 to 54 years .....	42,665	11,397	1,176	3,357	6,864	31,268	37.8	41.5
55 years and over .....	7,035	2,717	192	453	2,072	4,318	34.6	41.5
<b>Race</b>								
White, 16 years and over .....	104,911	26,024	2,741	6,695	16,588	78,887	39.3	43.5
Men .....	56,526	9,688	1,362	3,303	5,023	46,837	42.3	44.9
Women .....	48,386	16,336	1,378	3,393	11,565	32,050	35.8	41.5
Black, 16 years and over .....	14,130	3,144	549	1,014	1,580	10,986	39.0	41.9
Men .....	6,571	1,157	231	363	563	5,414	41.1	43.5
Women .....	7,559	1,987	319	651	1,017	5,572	37.2	40.4
<b>Marital status</b>								
Men, 16 years and over:								
Married, spouse present .....	40,390	4,890	658	2,425	1,807	35,500	44.0	45.3
Widowed, divorced, or separated .....	7,914	1,183	250	520	414	6,731	42.7	44.4
Single (never married) .....	17,922	5,292	755	912	3,626	12,630	37.8	43.3
Women, 16 years and over:								
Married, spouse present .....	31,260	9,944	651	2,340	6,953	21,315	36.2	41.2
Widowed, divorced, or separated .....	11,759	2,878	436	929	1,513	8,880	38.7	42.0
Single (never married) .....	15,627	6,295	694	949	4,652	9,332	33.6	41.1

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

(Numbers in thousands)

Occupation and sex	February 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> .....	124,861	30,566	3,449	8,073	19,044	94,295	39.3	43.3
Managerial and professional specialty .....	38,533	7,056	489	2,540	4,027	31,478	42.2	45.1
Executive, administrative, and managerial .....	18,729	2,652	180	1,162	1,310	16,077	44.0	45.9
Professional specialty .....	19,805	4,404	309	1,377	2,718	15,401	40.5	44.2
Technical, sales, and administrative support .....	37,797	10,778	887	2,417	7,474	27,019	37.3	42.2
Technicians and related support .....	4,075	900	52	305	542	3,176	38.9	42.0
Sales occupations .....	15,402	4,682	469	702	3,512	10,720	38.2	44.4
Administrative support, including clerical .....	18,320	5,197	367	1,410	3,420	13,123	36.3	40.5
Service occupations .....	17,367	7,035	928	897	5,211	10,332	34.5	42.2
Private household .....	736	432	79	38	314	303	28.1	41.1
Protective service .....	2,380	394	25	159	210	1,986	42.6	45.0
Service, except private household and protective .....	14,251	6,209	823	699	4,687	8,042	33.4	41.6
Precision production, craft, and repair .....	14,098	2,032	463	1,030	539	12,066	41.8	42.9
Operators, fabricators, and laborers .....	17,066	3,665	683	1,189	1,792	13,401	39.7	42.5
Machine operators, assemblers, and inspectors .....	7,172	1,074	244	489	342	6,098	40.6	41.9
Transportation and material moving occupations .....	5,084	974	163	302	509	4,110	42.4	45.1
Handlers, equipment cleaners, helpers, and laborers .....	4,809	1,617	277	399	942	3,192	35.5	40.4
Men, 16 years and over <sup>1</sup> .....	66,050	11,345	1,669	3,847	5,829	54,705	42.2	44.7
Managerial and professional specialty .....	19,532	2,361	210	1,063	1,089	17,171	45.5	47.2
Executive, administrative, and managerial .....	10,261	1,028	101	517	411	9,233	46.8	48.0
Professional specialty .....	9,271	1,333	109	546	678	7,938	44.0	46.2
Technical, sales, and administrative support .....	13,912	2,660	240	699	1,721	11,251	41.2	44.7
Technicians and related support .....	1,948	307	16	140	152	1,640	41.1	43.2
Sales occupations .....	8,035	1,539	143	311	1,085	6,496	42.5	46.5
Administrative support, including clerical .....	3,929	814	82	248	485	3,115	38.7	42.0
Service occupations .....	6,845	2,025	319	327	1,380	4,820	37.8	43.5
Private household .....	43	24	10	1	13	19	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,936	255	19	120	116	1,680	43.7	45.5
Service, except private household and protective .....	4,867	1,746	289	207	1,250	3,121	35.6	42.5
Precision production, craft, and repair .....	12,856	1,768	415	932	421	11,088	42.1	43.0
Operators, fabricators, and laborers .....	12,905	2,530	485	826	1,219	10,375	40.6	43.2
Machine operators, assemblers, and inspectors .....	4,568	525	115	259	151	4,043	41.8	42.7
Transportation and material moving occupations .....	4,541	768	140	258	369	3,773	43.1	45.5
Handlers, equipment cleaners, helpers, and laborers .....	3,797	1,238	230	309	699	2,559	36.0	40.6
Women, 16 years and over <sup>1</sup> .....	58,812	19,221	1,780	4,226	13,215	39,591	36.0	41.3
Managerial and professional specialty .....	19,002	4,694	278	1,477	2,939	14,307	38.8	42.6
Executive, administrative, and managerial .....	8,468	1,624	79	646	899	6,844	40.7	43.1
Professional specialty .....	10,534	3,071	199	831	2,040	7,463	37.4	42.2
Technical, sales, and administrative support .....	23,886	8,118	647	1,718	5,754	15,768	35.1	40.4
Technicians and related support .....	2,128	592	36	165	391	1,535	36.8	40.6
Sales occupations .....	7,367	3,143	326	391	2,427	4,224	33.5	41.4
Administrative support, including clerical .....	14,391	4,382	285	1,162	2,936	10,008	35.6	40.0
Service occupations .....	10,522	5,009	609	569	3,831	5,512	32.3	41.1
Private household .....	693	408	70	38	301	285	28.2	41.0
Protective service .....	444	139	6	40	93	306	37.8	42.8
Service, except private household and protective .....	9,384	4,462	533	492	3,437	4,922	32.3	41.0
Precision production, craft, and repair .....	1,242	265	48	99	118	977	39.3	41.7
Operators, fabricators, and laborers .....	4,161	1,135	198	363	573	3,026	37.0	40.2
Machine operators, assemblers, and inspectors .....	2,605	549	129	230	191	2,055	38.5	40.3
Transportation and material moving occupations .....	543	206	23	44	139	338	35.8	41.2
Handlers, equipment cleaners, helpers, and laborers .....	1,013	379	47	90	243	633	33.8	39.6

<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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
Total, 16 years and over .....	3,733	3,634	5.1	4.9	3,070	2,929	4.8	4.5
Married, spouse present .....	1,274	1,242	2.9	2.8	1,047	1,004	3.1	2.9
Widowed, divorced, or separated .....	491	499	5.6	5.6	747	636	5.8	4.9
Single (never married) .....	1,968	1,893	9.7	9.1	1,276	1,289	7.7	7.4
White, 16 years and over .....	2,856	2,827	4.6	4.5	2,129	2,046	4.1	3.9
Married, spouse present .....	1,069	1,037	2.8	2.7	854	794	2.9	2.7
Widowed, divorced, or separated .....	385	424	5.2	5.8	554	470	5.4	4.6
Single (never married) .....	1,402	1,366	8.6	8.1	721	782	5.8	6.0
Black, 16 years and over .....	731	657	10.0	8.8	808	724	9.7	8.5
Married, spouse present .....	157	147	4.7	4.3	130	142	4.9	5.0
Widowed, divorced, or separated .....	87	65	8.0	5.2	174	142	7.8	6.6
Single (never married) .....	487	445	17.1	15.8	504	441	14.7	12.5
Total, 25 years and over .....	2,329	2,378	3.8	3.8	2,080	1,876	3.9	3.5
Married, spouse present .....	1,196	1,170	2.8	2.7	926	885	2.9	2.7
Widowed, divorced, or separated .....	466	480	5.5	5.5	707	584	5.7	4.7
Single (never married) .....	666	728	6.2	6.5	447	407	5.3	4.6
White, 25 years and over .....	1,824	1,899	3.4	3.6	1,479	1,317	3.4	3.0
Married, spouse present .....	1,002	973	2.7	2.6	760	686	2.7	2.4
Widowed, divorced, or separated .....	366	404	5.2	5.7	524	427	5.3	4.3
Single (never married) .....	456	522	5.4	5.9	195	204	3.4	3.3
Black, 25 years and over .....	416	386	6.9	6.1	509	445	7.3	6.3
Married, spouse present .....	145	140	4.4	4.2	108	131	4.2	4.8
Widowed, divorced, or separated .....	87	65	8.2	5.3	165	136	7.6	6.5
Single (never married) .....	184	181	10.7	10.6	237	178	10.6	7.9

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



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-29. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
Total, 16 years and over <sup>1</sup> .....	6,804	6,563	5.0	4.7	5.1	4.9	4.8	4.5
Managerial and professional specialty .....	767	770	2.0	1.9	1.9	2.0	2.1	1.8
Executive, administrative, and managerial .....	421	367	2.2	1.9	1.9	1.9	2.6	1.8
Professional specialty .....	346	404	1.7	1.9	1.7	2.0	1.7	1.9
Technical, sales, and administrative support .....	1,658	1,661	4.2	4.1	3.6	3.4	4.5	4.5
Technicians and related support .....	104	93	2.4	2.2	2.2	2.9	2.6	1.5
Sales occupations .....	839	830	5.2	4.9	3.6	3.5	6.7	6.5
Administrative support, including clerical .....	715	738	3.7	3.8	4.2	3.5	3.5	3.9
Service occupations .....	1,222	1,059	6.4	5.6	6.8	5.7	6.2	5.5
Private household .....	46	60	4.9	7.3	( <sup>2</sup> )	( <sup>2</sup> )	5.2	7.3
Protective service .....	129	53	5.0	2.1	4.2	2.1	8.6	2.2
Service, except private household and protective .....	1,048	946	6.8	6.0	7.8	7.1	6.2	5.5
Precision production, craft, and repair .....	773	805	5.2	5.3	5.0	5.2	7.7	5.6
Mechanics and repairers .....	154	135	3.2	2.6	3.2	2.5	3.2	5.5
Construction trades .....	438	503	7.4	8.3	7.3	8.4	13.6	5.2
Other precision production, craft, and repair .....	180	166	4.3	4.1	3.3	3.6	7.9	5.7
Operators, fabricators, and laborers .....	1,567	1,410	7.9	7.4	7.9	7.4	8.1	7.4
Machine operators, assemblers, and inspectors .....	525	491	6.2	6.2	4.9	5.5	8.1	7.5
Transportation and material moving occupations .....	378	339	6.7	6.0	6.7	6.1	6.5	5.0
Handlers, equipment cleaners, helpers, and laborers .....	664	580	12.0	10.5	12.8	11.1	8.8	8.2
Construction laborers .....	196	196	21.1	19.2	20.7	19.2	( <sup>2</sup> )	( <sup>2</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	468	385	10.2	8.5	10.8	8.8	8.0	7.7
Farming, forestry, and fishing .....	291	362	9.0	11.0	9.4	10.9	7.7	11.4
No previous work experience .....	491	466	-	-	-	-	-	-
16 to 19 years .....	311	292	-	-	-	-	-	-
20 to 24 years .....	75	72	-	-	-	-	-	-
25 years and over .....	105	101	-	-	-	-	-	-

<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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
Total, 16 years and over .....	6,804	6,563	5.0	4.7	5.1	4.9	4.8	4.5
Nonagricultural private wage and salary workers .....	5,467	5,131	5.2	4.8	5.3	4.9	5.1	4.7
Mining .....	21	52	3.3	9.3	3.2	8.4	4.0	16.0
Construction .....	801	768	11.5	10.8	11.5	11.4	11.3	5.5
Manufacturing .....	868	824	4.1	4.0	3.2	3.5	6.0	5.0
Durable goods .....	414	452	3.3	3.5	2.8	3.4	4.4	3.9
Lumber and wood products .....	23	48	3.0	6.0	3.1	5.9	2.7	6.5
Furniture and fixtures .....	23	13	3.3	2.0	3.9	2.2	2.0	1.3
Stone, clay, and glass products .....	27	20	4.6	3.2	3.3	3.2	9.3	3.1
Primary metal industries .....	20	17	3.0	2.2	3.2	2.6	2.1	-
Fabricated metal products .....	54	56	3.9	4.0	4.4	4.4	2.6	2.7
Machinery and computing equipment .....	67	84	2.6	3.2	1.8	3.3	5.4	3.1
Electrical machinery, equipment, and supplies .....	69	61	3.3	3.0	2.5	3.2	4.7	2.8
Transportation equipment .....	61	84	2.5	3.5	2.3	2.5	3.2	6.7
Automobiles .....	40	60	2.9	4.3	2.5	2.3	4.2	10.0
Other transportation equipment .....	20	24	2.0	2.4	2.1	2.8	1.4	-
Professional and photographic equipment .....	25	18	2.9	2.3	3.7	1.4	1.7	3.4
Other durable goods industries .....	45	52	6.8	7.5	4.2	7.4	10.5	7.6
Nondurable goods .....	454	372	5.3	4.7	3.8	3.6	7.8	6.4
Food and kindred products .....	138	102	7.4	6.2	5.8	4.1	10.5	10.2
Textile mill products .....	34	39	5.7	6.5	4.0	5.8	7.4	7.6
Apparel and other textile products .....	88	61	9.6	7.6	4.8	4.7	11.9	8.9
Paper and allied products .....	16	20	2.2	2.7	2.0	2.3	3.1	3.8
Printing and publishing .....	79	59	4.5	3.3	3.6	3.9	5.7	2.6
Chemicals and allied products .....	34	36	2.7	3.0	2.0	2.0	4.0	5.0
Rubber and miscellaneous plastics products .....	53	47	5.1	5.2	3.9	4.1	7.4	7.2
Other nondurable goods industries .....	12	9	3.3	3.1	2.1	2.7	6.5	4.4
Transportation and public utilities .....	276	273	3.6	3.5	3.7	3.1	3.3	4.6
Transportation .....	208	194	4.4	4.0	4.7	3.8	3.7	4.6
Communications and other public utilities .....	68	79	2.3	2.7	2.0	1.8	2.9	4.6
Wholesale and retail trade .....	1,655	1,562	6.3	5.7	5.9	5.0	6.7	6.5
Wholesale trade .....	177	182	3.8	3.6	3.7	3.0	3.9	4.7
Retail trade .....	1,478	1,380	6.8	6.2	6.6	5.7	7.1	6.7
Finance, insurance, and real estate .....	199	188	2.5	2.3	2.4	2.4	2.6	2.3
Service industries .....	1,647	1,464	4.9	4.2	5.5	4.5	4.5	4.1
Professional services .....	650	497	3.2	2.4	2.9	2.3	3.3	2.4
Other service industries .....	997	967	7.3	7.0	7.7	6.4	6.9	7.6
Agricultural wage and salary workers .....	229	309	12.0	15.8	13.2	17.7	8.4	10.5
Government, self-employed, and unpaid family workers .....	617	658	2.1	2.2	2.2	2.4	2.1	2.0
No previous work experience .....	491	466	-	-	-	-	-	-

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,804	6,563	3,055	3,016	2,595	2,398	1,153	1,150	4,985	4,873	1,538	1,381
Job losers and persons who completed temporary jobs .....	3,254	3,151	1,977	1,951	1,112	1,023	164	177	2,462	2,434	665	596
On temporary layoff .....	1,145	1,159	748	796	336	304	60	59	969	967	127	148
Not on temporary layoff .....	2,109	1,993	1,229	1,155	776	719	104	118	1,492	1,466	538	448
Permanent job losers .....	1,503	1,308	848	759	592	495	63	53	1,101	958	349	305
Persons who completed temporary jobs .....	605	685	380	396	184	224	41	65	391	508	189	143
Job leavers .....	789	765	323	339	378	318	88	108	608	614	155	127
Reentrants .....	2,270	2,182	692	669	989	941	590	572	1,601	1,515	577	537
New entrants .....	491	466	63	57	116	116	311	292	315	310	142	122
<b>PERCENT DISTRIBUTION</b>												
Job losers and persons who completed temporary jobs .....	47.8	48.0	64.7	64.7	42.9	42.7	14.2	15.4	49.4	50.0	43.2	43.1
On temporary layoff .....	16.8	17.7	24.5	26.4	13.0	12.7	5.2	5.1	19.4	19.9	8.3	10.7
Not on temporary layoff .....	31.0	30.4	40.2	38.3	29.9	30.0	9.0	10.3	29.9	30.1	35.0	32.4
Job leavers .....	11.6	11.6	10.6	11.2	14.6	13.2	7.6	9.4	12.2	12.6	10.1	9.2
Reentrants .....	33.4	33.2	22.6	22.2	38.1	39.2	51.1	49.7	32.1	31.1	37.5	38.8
New entrants .....	7.2	7.1	2.1	1.9	4.5	4.9	27.0	25.4	6.3	6.4	9.2	8.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers and persons who completed temporary jobs .....	2.4	2.3	2.9	2.8	1.9	1.7	2.2	2.3	2.2	2.1	4.3	3.7
Job leavers .....	.6	.6	.5	.5	.6	.5	1.2	1.4	.5	.5	1.0	.8
Reentrants .....	1.7	1.6	1.0	1.0	1.7	1.6	7.8	7.3	1.4	1.3	3.7	3.4
New entrants .....	.4	.3	.1	.1	.2	.2	4.1	3.7	.3	.3	.9	.8

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	February 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 .....	6,563	100.0	38.0	36.3	25.6	13.2	12.4
Job losers and persons who completed temporary jobs .....	3,151	100.0	37.2	39.4	23.4	14.1	9.3
On temporary layoff .....	1,159	100.0	42.8	48.0	9.1	6.9	2.3
Not on temporary layoff .....	1,993	100.0	34.0	34.3	31.7	18.4	13.3
Permanent job losers .....	1,308	100.0	33.7	31.1	35.2	19.9	15.2
Persons who completed temporary jobs .....	685	100.0	34.4	40.5	25.1	15.4	9.7
Job leavers .....	765	100.0	43.5	32.4	24.1	13.6	10.4
Reentrants .....	2,182	100.0	38.2	33.2	28.6	11.1	17.5
New entrants .....	466	100.0	33.9	36.9	29.2	15.4	13.8
Men, 20 years and over .....	3,016	100.0	36.8	37.8	25.4	12.5	12.9
Job losers and persons who completed temporary jobs .....	1,951	100.0	37.7	40.7	21.6	12.9	8.7
On temporary layoff .....	796	100.0	41.4	52.2	6.4	5.0	1.3
Not on temporary layoff .....	1,155	100.0	35.2	32.8	32.0	18.3	13.8
Permanent job losers .....	759	100.0	34.3	29.2	36.5	19.5	16.9
Persons who completed temporary jobs .....	396	100.0	36.8	39.6	23.5	15.8	7.7
Job leavers .....	339	100.0	41.1	31.7	27.2	14.8	12.4
Reentrants .....	669	100.0	32.4	31.3	36.3	11.4	25.0
New entrants .....	57	100.0	(1)	(1)	(1)	(1)	(1)
Women, 20 years and over .....	2,398	100.0	35.6	35.3	29.1	15.0	14.1
Job losers and persons who completed temporary jobs .....	1,023	100.0	35.9	35.4	28.7	16.7	11.9
On temporary layoff .....	304	100.0	42.5	40.8	16.7	11.5	5.2
Not on temporary layoff .....	719	100.0	33.1	33.1	33.7	19.0	14.8
Permanent job losers .....	495	100.0	33.2	31.5	35.3	21.0	14.3
Persons who completed temporary jobs .....	224	100.0	32.9	36.7	30.4	14.5	15.9
Job leavers .....	318	100.0	36.9	34.7	28.3	16.5	11.9
Reentrants .....	941	100.0	35.9	36.0	28.2	11.5	16.6
New entrants .....	116	100.0	26.2	31.2	42.5	23.5	19.0
Both sexes, 16 to 19 years .....	1,150	100.0	46.6	34.6	18.8	11.0	7.8
Job losers and persons who completed temporary jobs .....	177	100.0	39.5	47.3	13.2	13.2	-
On temporary layoff .....	59	100.0	(1)	(1)	(1)	(1)	(1)
Not on temporary layoff .....	118	100.0	27.3	56.5	16.2	16.2	-
Permanent job losers .....	53	100.0	(1)	(1)	(1)	(1)	(1)
Persons who completed temporary jobs .....	65	100.0	(1)	(1)	(1)	(1)	(1)
Job leavers .....	108	100.0	70.7	27.7	1.6	1.6	-
Reentrants .....	572	100.0	48.9	31.0	20.1	10.1	10.0
New entrants .....	292	100.0	37.6	36.2	26.2	14.9	11.3

<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	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
Total, 16 years and over .....	6,804	6,563	100.0	100.0	5,374	5,211	100.0	100.0
Less than 5 weeks .....	2,488	2,497	36.6	38.0	1,764	1,824	32.8	35.0
5 to 14 weeks .....	2,365	2,386	34.8	36.3	1,910	1,952	35.6	37.5
5 to 10 weeks .....	1,671	1,679	24.6	25.6	1,329	1,331	24.7	25.5
11 to 14 weeks .....	694	707	10.2	10.8	582	621	10.8	11.9
15 weeks and over .....	1,950	1,681	28.7	25.6	1,700	1,436	31.6	27.5
15 to 26 weeks .....	957	864	14.1	13.2	802	748	14.9	14.4
27 weeks and over .....	994	816	14.6	12.4	897	688	16.7	13.2
27 to 51 weeks .....	434	350	6.4	5.3	389	299	7.2	5.7
52 weeks and over .....	560	466	8.2	7.1	508	388	9.5	7.5
Average (mean) duration, in weeks .....	15.3	13.8	-	-	16.7	14.6	-	-
Median duration, in weeks .....	7.5	7.4	-	-	8.5	8.2	-	-

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	February 1999								
	Thousands of persons						Weeks		
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration	
				Total	15 to 26 weeks	27 weeks and over			
<b>TOTAL</b>									
Total, 16 years and over .....	6,563	2,497	2,386	1,681	864	816	13.8	7.4	
16 to 19 years .....	1,150	536	397	217	126	90	9.9	5.3	
20 to 24 years .....	1,160	481	443	236	109	127	12.5	6.6	
25 to 34 years .....	1,525	554	576	395	217	178	14.4	7.8	
35 to 44 years .....	1,307	440	464	402	217	185	15.3	8.7	
45 to 54 years .....	901	308	333	261	134	126	14.7	8.4	
55 to 64 years .....	400	140	133	127	49	78	16.1	8.4	
65 years and over .....	120	39	39	43	11	31	22.4	9.6	
<b>Men, 16 years and over</b> .....	3,634	1,397	1,353	883	438	446	13.6	7.3	
16 to 19 years .....	618	289	212	117	59	58	10.0	5.2	
20 to 24 years .....	638	278	221	139	70	69	12.5	6.2	
25 to 34 years .....	804	281	314	209	101	108	15.6	8.2	
35 to 44 years .....	714	254	270	190	104	86	13.8	8.4	
45 to 54 years .....	531	183	207	140	74	66	13.9	8.1	
55 to 64 years .....	259	87	102	71	25	46	15.9	7.9	
65 years and over .....	69	25	27	17	4	13	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Women, 16 years and over</b> .....	2,929	1,100	1,032	797	427	371	13.9	7.6	
16 to 19 years .....	531	247	185	99	67	32	9.8	5.3	
20 to 24 years .....	522	203	222	97	39	58	12.4	7.0	
25 to 34 years .....	721	272	262	186	116	70	13.1	7.2	
35 to 44 years .....	592	186	194	212	114	99	17.2	9.2	
45 to 54 years .....	370	125	125	120	60	60	15.8	9.0	
55 to 64 years .....	141	53	32	56	24	33	16.6	10.2	
65 years and over .....	51	14	12	26	7	18	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Race</b>									
<b>White, 16 years and over</b> .....	4,873	1,895	1,857	1,121	595	525	12.7	7.2	
Men .....	2,827	1,125	1,115	587	309	278	11.9	6.9	
Women .....	2,046	770	742	534	287	247	13.7	7.5	
<b>Black, 16 years and over</b> .....	1,381	491	428	462	216	246	17.6	9.1	
Men .....	657	222	194	241	103	138	20.0	9.7	
Women .....	724	269	234	221	113	108	15.3	8.5	
<b>Marital status</b>									
<b>Men, 16 years and over:</b>									
Married, spouse present .....	1,242	426	527	290	139	151	13.6	7.8	
Widowed, divorced, or separated .....	499	206	176	116	63	53	13.3	7.6	
Single (never married) .....	1,893	766	651	477	235	242	13.7	6.9	
<b>Women, 16 years and over:</b>									
Married, spouse present .....	1,004	366	362	275	169	107	12.6	7.6	
Widowed, divorced, or separated .....	636	231	184	221	95	126	17.9	8.8	
Single (never married) .....	1,289	502	486	301	163	138	13.1	7.1	

<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	February 1999							
	Thousands of persons						Weeks	
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration
				Total	15 to 26 weeks	27 weeks and over		
<b>OCCUPATION</b>								
Managerial and professional specialty .....	770	275	280	215	103	112	13.8	7.7
Technical, sales, and administrative support .....	1,661	672	556	433	246	187	13.0	6.8
Service occupations .....	1,059	422	311	325	140	185	16.6	7.3
Precision production, craft, and repair .....	805	377	267	161	94	67	11.3	5.5
Operators, fabricators, and laborers .....	1,410	484	582	344	170	174	13.9	8.4
Farming, forestry, and fishing .....	362	98	197	67	39	28	11.7	8.2
<b>INDUSTRY<sup>1</sup></b>								
Agriculture .....	309	76	181	52	33	19	11.1	8.6
Construction .....	775	286	352	137	65	72	12.6	7.5
Manufacturing .....	828	306	257	264	149	115	14.3	8.6
Durable goods .....	456	156	139	161	91	70	15.5	9.3
Nondurable goods .....	372	150	118	104	58	45	12.7	7.8
Transportation and public utilities .....	914	126	103	87	41	46	15.4	7.2
Wholesale and retail trade .....	4,732	654	524	391	193	198	12.6	6.7
Finance, insurance, and real estate .....	572	44	50	96	55	41	22.2	14.7
Services .....	3,135	664	591	416	207	208	14.1	6.7
Public administration .....	360	35	46	39	19	20	16.1	9.7
No previous work experience .....	466	158	172	136	72	64	15.8	8.1

<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			
	Feb. 1998	Feb. 1999	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
	Total not in the labor force .....	68,115	68,671	11,972	12,366	18,785	18,486	37,358	37,819	25,400	25,562	42,714
Do not want a job now <sup>1</sup> .....	63,203	63,968	10,094	10,576	16,554	16,425	36,555	36,967	23,235	23,684	39,967	40,285
Want a job <sup>1</sup> .....	4,912	4,703	1,878	1,790	2,231	2,061	804	852	2,165	1,878	2,747	2,825
Did not search for work in previous year .....	2,790	2,888	946	1,038	1,238	1,189	606	661	1,119	1,087	1,672	1,800
Searched for work in previous year <sup>2</sup> .....	2,122	1,815	932	753	992	872	198	191	1,046	791	1,076	1,024
Not available to work now .....	644	536	326	259	287	247	31	31	273	199	371	338
Available to work now .....	1,478	1,279	606	494	705	625	167	160	773	592	705	686
Reason not currently looking:												
Discouragement over job prospects <sup>3</sup> .....	361	271	116	92	193	116	52	63	237	170	124	100
Reasons other than discouragement .....	1,117	1,008	490	402	513	509	115	97	537	422	581	586
Family responsibilities .....	161	141	51	25	95	110	15	6	24	15	137	126
In school or training .....	248	275	192	222	56	44	-	-	135	142	113	133
Ill health or disability .....	130	112	24	21	76	68	30	24	58	39	72	73
Other <sup>4</sup> .....	578	479	223	134	286	287	69	58	320	226	258	253

<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>	
	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
<b>AGE</b>												
Total, 16 years and over <sup>2</sup> .....	7,877	8,044	6.1	6.1	4,142	4,264	6.0	6.1	3,734	3,780	6.2	6.1
16 to 19 years .....	274	272	4.3	4.1	112	113	3.6	3.4	162	159	4.9	4.7
20 years and over .....	7,603	7,772	6.2	6.2	4,030	4,151	6.1	6.2	3,573	3,621	6.3	6.2
20 to 24 years .....	842	828	6.9	6.6	395	423	6.2	6.5	447	405	7.7	6.8
25 years and over .....	6,761	6,944	6.1	6.2	3,636	3,728	6.1	6.2	3,125	3,217	6.1	6.2
25 to 54 years .....	5,932	6,100	6.3	6.4	3,154	3,277	6.2	6.4	2,778	2,824	6.3	6.3
55 years and over .....	829	844	5.1	5.0	481	451	5.4	4.8	348	393	4.7	5.2
55 to 64 years .....	724	725	5.7	5.5	405	380	5.9	5.3	318	345	5.5	5.8
65 years and over .....	106	119	2.9	3.2	76	71	3.7	3.4	29	48	1.9	3.0
<b>RACE AND HISPANIC ORIGIN</b>												
White .....	6,879	6,890	6.3	6.2	3,620	3,645	6.1	6.1	3,259	3,245	6.5	6.4
Black .....	681	917	4.8	6.3	315	504	4.8	7.4	365	413	4.9	5.3
Hispanic origin .....	507	575	3.9	4.3	301	335	3.9	4.3	206	240	4.0	4.3
<b>MARITAL STATUS</b>												
Married, spouse present .....	4,466	4,431	5.9	5.8	2,719	2,619	6.4	6.1	1,746	1,812	5.3	5.5
Widowed, divorced, or separated .....	1,389	1,385	6.8	6.7	482	498	5.8	5.9	907	887	7.5	7.3
Single (never married) .....	2,022	2,228	6.0	6.3	941	1,146	5.1	6.1	1,081	1,081	7.1	6.7
<b>FULL- OR PART-TIME STATUS</b>												
Primary job full time, secondary job part time .....	4,391	4,396	-	-	2,580	2,551	-	-	1,811	1,845	-	-
Primary and secondary jobs both part time .....	1,671	1,763	-	-	542	575	-	-	1,129	1,187	-	-
Primary and secondary jobs both full time .....	227	276	-	-	154	174	-	-	73	102	-	-
Hours vary on primary or secondary job .....	1,566	1,563	-	-	847	932	-	-	719	631	-	-

<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							
	Feb. 1998	Feb. 1999	Total		Employed		Unemployed			
			Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999	Number		Percent of labor force	
							Feb. 1998	Feb. 1999	Feb. 1998	Feb. 1999
<b>VIETNAM-ERA VETERANS</b>										
Total, 40 years and over .....	7,811	7,782	6,598	6,474	6,386	6,193	212	281	3.2	4.3
40 to 54 years .....	6,097	5,692	5,480	5,046	5,301	4,810	179	237	3.3	4.7
40 to 44 years .....	841	590	755	528	741	488	14	41	1.8	7.7
45 to 49 years .....	2,391	1,995	2,175	1,787	2,095	1,681	80	106	3.7	5.9
50 to 54 years .....	2,865	3,107	2,550	2,731	2,465	2,641	85	90	3.3	3.3
55 years and over .....	1,714	2,090	1,118	1,427	1,085	1,384	33	44	3.0	3.1
<b>NONVETERANS</b>										
Total, 40 to 54 years .....	20,003	20,788	18,117	18,884	17,531	18,253	585	631	3.2	3.3
40 to 44 years .....	9,174	9,304	8,467	8,624	8,193	8,322	274	302	3.2	3.5
45 to 49 years .....	6,583	7,090	5,993	6,440	5,813	6,233	180	207	3.0	3.2
50 to 54 years .....	4,246	4,394	3,657	3,820	3,525	3,698	132	123	3.6	3.2

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

have never served in the Armed Forces. 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
<b>Annual averages</b>															
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	3,893	9,901
1987	101,958	84,948	24,674	717	4,958	18,999	77,284	5,362	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	125,832	105,970	25,256	575	5,965	18,716	100,576	6,549	6,825	22,475	7,341	37,525	2,686	4,648	12,527
<b>Monthly data, seasonally adjusted</b>															
<b>1998:</b>															
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	127,118	107,096	25,269	557	6,153	18,559	101,849	6,627	6,882	22,712	7,458	38,148	2,706	4,690	12,626
<b>1999:</b>															
January <sup>p</sup>	127,335	107,274	25,256	547	6,167	18,542	102,079	6,641	6,899	22,748	7,481	38,249	2,704	4,692	12,665
February <sup>p</sup>	127,610	107,527	25,268	537	6,239	18,492	102,342	6,656	6,908	22,871	7,488	38,336	2,699	4,698	12,686

<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 .....	34.6	12.77	441.84	43.9	16.95	744.11	38.8	16.56	642.53
Monthly data, not seasonally adjusted									
<b>1998:</b>									
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 .....	34.7	12.99	450.75	43.7	17.35	758.20	39.0	16.84	656.76
<b>1999:</b>									
January <sup>P</sup> .....	34.0	13.09	445.06	42.2	17.35	732.17	37.8	16.71	631.64
February <sup>P</sup> .....	34.3	13.08	448.64	42.8	17.41	745.15	37.9	16.65	631.04

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
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	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 .....	41.7	13.49	12.79	562.53	39.5	15.34	605.93	38.4	14.01	537.98
<b>Monthly data, not seasonally adjusted</b>										
<b>1998:</b>										
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 .....	42.6	13.69	12.94	583.19	39.1	15.54	607.61	38.4	14.27	547.97
<b>1999:</b>										
January <sup>p</sup> .....	41.3	13.67	12.98	564.57	38.7	15.57	602.56	38.0	14.35	545.30
February <sup>p</sup> .....	41.3	13.66	12.99	564.16	39.0	15.57	607.23	38.3	14.33	548.84

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 .....	29.1	8.75	254.63	36.4	14.06	511.78	32.7	12.84	419.87
Monthly data, not seasonally adjusted									
<b>1998:</b>									
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 .....	29.3	8.90	260.77	36.2	14.40	521.28	32.6	13.18	429.67
<b>1999:</b>									
January <sup>p</sup> .....	28.1	9.02	253.46	36.0	14.45	520.20	32.3	13.30	429.59
February <sup>p</sup> .....	28.7	8.99	258.01	36.4	14.52	528.53	32.6	13.32	434.23

<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.  
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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.P	Feb.P
<b>Total</b> .....	124,832	124,914	125,234	125,562	125,751	125,869	126,191	126,363	126,527	126,804	127,118	127,335	127,610
<b>Total private</b> .....	105,112	105,186	105,470	105,734	105,938	106,043	106,269	106,435	106,579	106,818	107,096	107,274	107,527
<b>Goods-producing</b> .....	25,314	25,276	25,339	25,301	25,304	25,135	25,253	25,241	25,209	25,184	25,269	25,256	25,268
<b>Mining</b> .....	590	587	582	579	578	571	571	568	564	560	557	547	537
Metal mining .....	52	51	51	51	51	50	50	50	50	50	50	51	50
Coal mining .....	93	93	92	92	90	89	90	89	89	90	90	90	89
Oil and gas extraction .....	338	336	332	329	330	325	323	321	317	312	308	299	291
Nonmetallic minerals, except fuels .....	107	107	107	107	107	107	108	108	108	108	109	107	107
<b>Construction</b> .....	5,902	5,860	5,930	5,917	5,946	5,970	5,989	5,981	6,012	6,051	6,153	6,167	6,239
General building contractors .....	1,371	1,373	1,385	1,388	1,401	1,410	1,413	1,410	1,419	1,414	1,433	1,447	1,460
Heavy construction, except building .....	813	805	819	819	821	828	829	820	825	834	861	861	861
Special trade contractors .....	3,718	3,682	3,726	3,710	3,724	3,732	3,747	3,751	3,768	3,803	3,859	3,859	3,918
<b>Manufacturing</b> .....	18,822	18,829	18,827	18,805	18,780	18,594	18,693	18,692	18,633	18,573	18,559	18,542	18,492
<b>Durable goods</b> .....	11,159	11,166	11,170	11,156	11,144	10,989	11,106	11,090	11,059	11,011	10,996	10,986	10,962
Lumber and wood products .....	800	801	802	803	801	802	802	805	806	809	813	821	821
Furniture and fixtures .....	519	520	524	526	524	528	526	524	524	524	527	527	528
Stone, clay, and glass products .....	561	558	561	559	562	561	564	564	564	568	571	568	571
Primary metal industries .....	718	719	718	716	717	706	714	712	706	699	698	694	695
Fabricated metal products .....	1,497	1,497	1,498	1,495	1,490	1,477	1,490	1,487	1,486	1,481	1,480	1,483	1,477
Industrial machinery and equipment .....	2,202	2,205	2,201	2,201	2,202	2,193	2,190	2,185	2,175	2,162	2,152	2,137	2,130
Computer and office equipment .....	381	381	377	376	375	375	373	374	371	370	367	363	360
Electronic and other electrical equipment .....	1,720	1,722	1,720	1,716	1,714	1,701	1,694	1,688	1,680	1,668	1,664	1,660	1,658
Electronic components and accessories .....	680	681	678	677	672	667	661	659	654	649	646	645	646
Transportation equipment .....	1,886	1,887	1,890	1,886	1,882	1,772	1,884	1,883	1,887	1,877	1,871	1,876	1,864
Motor vehicles and equipment .....	1,004	1,002	1,004	998	993	878	995	995	1,000	998	990	998	990
Aircraft and parts .....	523	525	525	524	524	526	526	524	523	519	518	516	510
Instruments and related products .....	866	868	867	866	864	861	857	855	850	845	842	842	841
Miscellaneous manufacturing .....	390	389	389	388	388	388	385	387	381	378	378	378	377
<b>Nondurable goods</b> .....	7,663	7,663	7,657	7,649	7,636	7,605	7,587	7,602	7,574	7,562	7,563	7,556	7,530
Food and kindred products .....	1,703	1,704	1,708	1,710	1,706	1,696	1,690	1,704	1,702	1,710	1,718	1,723	1,719
Tobacco products .....	41	41	42	41	40	40	40	39	40	40	39	40	40
Textile mill products .....	606	604	605	603	599	594	591	593	589	584	581	576	572
Apparel and other textile products .....	796	796	787	780	776	772	762	761	746	736	734	728	713
Paper and allied products .....	688	688	686	685	682	680	680	679	677	674	673	671	671
Printing and publishing .....	1,564	1,564	1,565	1,566	1,570	1,571	1,568	1,568	1,569	1,566	1,561	1,563	1,562
Chemicals and allied products .....	1,036	1,036	1,035	1,039	1,037	1,038	1,036	1,036	1,034	1,035	1,035	1,032	1,033
Petroleum and coal products .....	136	136	137	136	137	135	134	135	134	134	136	133	134
Rubber and misc. plastics products .....	1,007	1,009	1,008	1,006	1,006	998	1,006	1,007	1,004	1,005	1,008	1,013	1,010
Leather and leather products .....	86	85	84	83	83	81	80	80	79	78	78	77	76
<b>Service-producing</b> .....	99,518	99,638	99,895	100,261	100,447	100,734	100,938	101,122	101,318	101,620	101,849	102,079	102,342
<b>Transportation and public utilities</b> .....	6,494	6,504	6,513	6,534	6,538	6,550	6,570	6,579	6,595	6,604	6,627	6,641	6,656
Transportation .....	4,164	4,170	4,173	4,191	4,196	4,208	4,235	4,237	4,247	4,249	4,262	4,268	4,282
Railroad transportation .....	231	231	231	232	232	231	232	234	234	231	233	235	234
Local and interurban passenger transit .....	459	460	453	459	458	466	469	466	467	468	468	467	471
Trucking and warehousing .....	1,688	1,690	1,702	1,703	1,709	1,709	1,719	1,716	1,721	1,721	1,730	1,739	1,741
Water transportation .....	181	183	181	185	183	188	192	191	191	193	191	189	188
Transportation by air .....	1,145	1,146	1,147	1,151	1,154	1,154	1,161	1,166	1,167	1,167	1,169	1,167	1,178
Pipelines, except natural gas .....	14	14	14	14	14	14	14	14	14	14	14	14	14
Transportation services .....	446	446	445	447	446	446	448	450	453	455	457	457	456
Communications and public utilities .....	2,330	2,334	2,340	2,343	2,342	2,342	2,335	2,342	2,348	2,355	2,365	2,373	2,374
Communications .....	1,471	1,475	1,484	1,486	1,488	1,488	1,483	1,490	1,498	1,502	1,512	1,523	1,525
Electric, gas, and sanitary services .....	859	859	856	857	854	854	852	852	850	853	853	850	849
<b>Wholesale trade</b> .....	6,769	6,783	6,798	6,815	6,821	6,827	6,838	6,862	6,864	6,877	6,882	6,899	6,908
Durable goods .....	4,030	4,039	4,050	4,059	4,067	4,072	4,084	4,094	4,096	4,102	4,104	4,112	4,123
Nondurable goods .....	2,739	2,744	2,748	2,756	2,754	2,755	2,754	2,768	2,768	2,775	2,778	2,787	2,785

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>	
<b>Retail trade</b> .....	22,283	22,259	22,335	22,423	22,448	22,547	22,545	22,592	22,589	22,672	22,712	22,748	22,871	
Building materials and garden supplies .....	959	966	971	972	975	977	979	984	987	991	997	1,005	1,013	
General merchandise stores .....	2,756	2,759	2,784	2,788	2,784	2,790	2,784	2,800	2,812	2,842	2,823	2,834	2,856	
Department stores .....	2,427	2,428	2,447	2,462	2,457	2,454	2,459	2,466	2,481	2,504	2,490	2,501	2,524	
Food stores .....	3,533	3,536	3,533	3,542	3,538	3,552	3,551	3,557	3,554	3,558	3,561	3,546	3,556	
Automotive dealers and service stations .....	2,331	2,333	2,337	2,345	2,351	2,355	2,354	2,361	2,367	2,370	2,377	2,383	2,395	
New and used car dealers .....	1,056	1,056	1,058	1,060	1,064	1,066	1,064	1,065	1,067	1,069	1,073	1,074	1,078	
Apparel and accessory stores .....	1,100	1,098	1,105	1,106	1,108	1,111	1,112	1,109	1,101	1,105	1,101	1,109	1,121	
Furniture and home furnishings stores .....	1,043	1,048	1,045	1,055	1,058	1,063	1,070	1,071	1,076	1,082	1,084	1,093	1,103	
Eating and drinking places .....	7,694	7,645	7,681	7,714	7,726	7,781	7,770	7,790	7,778	7,807	7,854	7,843	7,868	
Miscellaneous retail establishments .....	2,867	2,874	2,879	2,901	2,908	2,918	2,925	2,920	2,914	2,917	2,915	2,935	2,959	
<b>Finance, insurance, and real estate</b> .....	7,232	7,258	7,289	7,311	7,333	7,370	7,372	7,393	7,417	7,441	7,458	7,481	7,488	
Finance .....	3,496	3,512	3,521	3,536	3,547	3,565	3,572	3,578	3,598	3,605	3,615	3,624	3,632	
Depository institutions .....	2,039	2,041	2,041	2,044	2,042	2,042	2,042	2,038	2,043	2,043	2,046	2,049	2,052	
Commercial banks .....	1,464	1,465	1,463	1,463	1,459	1,459	1,457	1,456	1,456	1,455	1,457	1,459	1,461	
Savings institutions .....	262	262	263	264	264	265	264	264	265	265	264	265	265	
Nondepository institutions .....	593	602	605	611	616	624	628	630	640	649	652	658	661	
Mortgage bankers and brokers .....	270	276	278	281	284	289	294	298	305	310	313	313	316	
Security and commodity brokers .....	629	633	636	641	648	655	657	662	666	663	666	666	665	
Holding and other investment offices .....	235	236	239	240	241	244	245	248	249	250	251	251	254	
Insurance .....	2,297	2,302	2,312	2,320	2,328	2,337	2,339	2,346	2,350	2,357	2,360	2,360	2,359	
Insurance carriers .....	1,560	1,566	1,574	1,579	1,586	1,594	1,595	1,599	1,601	1,606	1,610	1,613	1,611	
Insurance agents, brokers, and service .....	737	736	738	741	742	743	744	747	749	751	750	747	748	
Real estate .....	1,439	1,444	1,456	1,455	1,458	1,468	1,461	1,469	1,469	1,479	1,483	1,497	1,497	
<b>Services</b> <sup>1</sup> .....	37,020	37,106	37,196	37,350	37,494	37,614	37,691	37,768	37,905	38,040	38,148	38,249	38,336	
Agricultural services .....	696	695	706	700	706	713	718	719	722	737	751	757	757	
Hotels and other lodging places .....	1,756	1,755	1,767	1,769	1,773	1,781	1,786	1,781	1,783	1,777	1,776	1,777	1,772	
Personal services .....	1,177	1,178	1,186	1,190	1,186	1,184	1,185	1,179	1,178	1,180	1,186	1,187	1,171	
Business services .....	8,384	8,412	8,422	8,491	8,556	8,565	8,619	8,605	8,677	8,715	8,756	8,792	8,832	
Services to buildings .....	961	966	965	975	975	980	978	986	987	989	991	999	996	
Personnel supply services .....	3,152	3,149	3,140	3,156	3,189	3,151	3,178	3,152	3,161	3,177	3,202	3,217	3,224	
Help supply services .....	2,820	2,819	2,806	2,818	2,853	2,815	2,850	2,818	2,829	2,840	2,857	2,864	2,871	
Computer and data processing services .....	1,522	1,538	1,561	1,578	1,601	1,622	1,632	1,643	1,661	1,680	1,691	1,711	1,724	
Auto repair, services, and parking .....	1,144	1,145	1,146	1,153	1,159	1,162	1,167	1,168	1,169	1,175	1,177	1,182	1,189	
Miscellaneous repair services .....	382	382	383	385	387	385	386	388	389	391	393	395	396	
Motion pictures .....	569	565	563	567	554	564	566	568	567	563	564	563	569	
Amusement and recreation services .....	1,641	1,647	1,660	1,662	1,670	1,694	1,705	1,717	1,718	1,744	1,742	1,750	1,742	
Health services .....	9,852	9,867	9,873	9,887	9,905	9,902	9,919	9,937	9,947	9,955	9,955	9,957	9,973	
Offices and clinics of medical doctors .....	1,788	1,796	1,801	1,806	1,813	1,817	1,828	1,835	1,843	1,849	1,845	1,854	1,859	
Nursing and personal care facilities .....	1,761	1,761	1,760	1,762	1,761	1,756	1,754	1,758	1,755	1,753	1,751	1,752	1,752	
Hospitals .....	3,920	3,925	3,938	3,945	3,953	3,960	3,966	3,971	3,977	3,978	3,980	3,977	3,980	
Home health care services .....	702	698	687	684	683	673	670	667	662	661	661	653	660	
Legal services .....	967	970	972	977	980	984	985	991	995	994	997	997	1,000	
Educational services .....	2,179	2,189	2,192	2,195	2,200	2,205	2,198	2,218	2,238	2,245	2,252	2,249	2,269	
Social services .....	2,577	2,587	2,595	2,609	2,627	2,657	2,632	2,652	2,659	2,672	2,686	2,697	2,713	
Child day care services .....	574	575	577	575	581	583	586	583	583	586	589	591	597	
Residential care .....	741	744	746	749	747	749	752	758	762	764	766	770	776	
Museums and botanical and zoological gardens .....	92	92	92	91	91	91	92	92	92	94	94	94	93	
Membership organizations .....	2,261	2,263	2,265	2,266	2,270	2,272	2,273	2,276	2,281	2,279	2,283	2,289	2,293	
Engineering and management services .....	3,148	3,164	3,178	3,212	3,234	3,259	3,264	3,280	3,293	3,321	3,338	3,365	3,368	
Engineering and architectural services .....	899	904	910	913	921	925	927	926	927	932	934	938	940	
Management and public relations .....	1,007	1,012	1,011	1,029	1,037	1,052	1,055	1,066	1,075	1,092	1,098	1,112	1,116	
<b>Government</b> .....	19,720	19,728	19,764	19,828	19,813	19,826	19,922	19,928	19,948	19,986	20,022	20,061	20,083	
Federal .....	2,676	2,671	2,674	2,671	2,674	2,672	2,683	2,687	2,713	2,725	2,706	2,704	2,699	
Federal, except Postal Service .....	1,819	1,815	1,814	1,810	1,813	1,810	1,816	1,813	1,834	1,845	1,818	1,827	1,824	
State .....	4,613	4,619	4,620	4,637	4,632	4,645	4,661	4,680	4,671	4,674	4,690	4,692	4,698	
Education .....	1,924	1,928	1,925	1,932	1,933	1,938	1,949	1,960	1,949	1,945	1,957	1,953	1,958	
Other State government .....	2,689	2,691	2,695	2,705	2,699	2,707	2,712	2,720	2,722	2,729	2,733	2,739	2,740	
Local .....	12,431	12,438	12,470	12,520	12,507	12,509	12,578	12,561	12,564	12,587	12,626	12,665	12,686	
Education .....	6,999	7,003	7,023	7,053	7,045	7,078	7,128	7,088	7,083	7,114	7,133	7,162	7,171	
Other local government .....	5,432	5,435	5,447	5,467	5,462	5,431	5,450	5,473	5,481	5,473	5,493	5,503	5,515	

<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											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total</b> .....	60,114	60,220	60,308	60,380	60,460	60,689	60,791	60,893	61,008	61,130	61,184	61,258	61,411
<b>Total private</b> .....	49,142	49,239	49,306	49,369	49,446	49,626	49,725	49,854	49,893	49,975	50,024	50,095	50,187
<b>Goods-producing</b> .....	6,759	6,766	6,767	6,770	6,759	6,762	6,763	6,703	6,722	6,724	6,696	6,671	6,672
<b>Mining</b> .....	83	83	83	83	82	82	82	81	82	82	80	80	80
<b>Construction</b> .....	648	650	654	655	656	662	669	672	677	676	679	682	685
<b>Manufacturing</b> .....	6,028	6,033	6,030	6,032	6,021	6,018	6,012	5,950	5,963	5,966	5,937	5,909	5,907
<b>Durable goods</b> .....	2,962	2,973	2,979	2,982	2,980	2,976	2,976	2,938	2,954	2,951	2,941	2,923	2,920
Lumber and wood products .....	139	140	141	141	141	141	142	143	143	144	144	145	145
Furniture and fixtures .....	162	163	164	165	166	166	167	168	167	166	167	166	168
Stone, clay, and glass products .....	105	107	107	107	106	107	107	107	107	106	107	106	106
Primary metal industries .....	104	104	104	104	105	103	105	102	104	104	104	104	103
Fabricated metal products .....	331	333	334	334	334	334	334	334	336	336	336	334	335
Industrial machinery and equipment .....	484	485	486	485	485	482	482	478	475	474	472	469	468
Electronic and other electrical equipment .....	712	714	716	716	712	710	708	702	697	695	687	681	679
Transportation equipment .....	401	400	401	402	404	406	406	380	402	404	406	403	402
Instruments and related products .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing .....	170	171	171	171	171	171	170	169	169	169	166	165	165
<b>Nondurable goods</b> .....	3,066	3,060	3,051	3,050	3,041	3,042	3,036	3,012	3,009	3,015	2,996	2,986	2,987
Food and kindred products .....	558	559	559	559	560	562	560	548	554	559	555	560	565
Tobacco products .....	13	13	13	13	14	13	13	12	12	12	13	13	13
Textile mill products .....	283	281	280	278	279	279	277	276	274	275	274	271	270
Apparel and other textile products .....	594	589	582	583	575	571	567	565	557	555	542	535	532
Paper and allied products .....	168	168	168	168	167	167	167	165	165	165	165	163	164
Printing and publishing .....	705	706	705	706	705	707	710	707	707	708	709	706	704
Chemicals and allied products .....	331	330	331	330	330	332	331	333	332	333	331	332	331
Petroleum and coal products .....	25	24	24	24	24	24	24	23	23	23	23	23	24
Rubber and misc. plastics products .....	343	345	344	344	343	343	343	338	343	343	342	342	343
Leather and leather products .....	46	45	45	45	44	44	44	42	42	42	42	41	41
<b>Service-producing</b> .....	53,355	53,454	53,541	53,610	53,701	53,927	54,028	54,190	54,286	54,406	54,488	54,587	54,739
<b>Transportation and public utilities</b> .....	1,939	1,946	1,948	1,949	1,951	1,960	1,963	1,969	1,980	1,991	2,002	1,999	2,005
<b>Wholesale trade</b> .....	2,067	2,078	2,077	2,078	2,082	2,089	2,090	2,096	2,096	2,096	2,099	2,104	2,104
<b>Retail trade</b> .....	11,700	11,713	11,712	11,707	11,720	11,786	11,819	11,884	11,875	11,902	11,898	11,906	11,925
<b>Finance, insurance, and real estate</b> .....	4,526	4,539	4,546	4,563	4,582	4,593	4,604	4,617	4,619	4,629	4,643	4,658	4,671
<b>Services</b> .....	22,151	22,197	22,256	22,302	22,352	22,436	22,486	22,585	22,601	22,633	22,686	22,757	22,810
<b>Government</b> .....	10,972	10,981	11,002	11,011	11,014	11,063	11,066	11,039	11,115	11,155	11,160	11,163	11,224
Federal .....	1,154	1,141	1,140	1,137	1,136	1,136	1,142	1,127	1,133	1,137	1,148	1,146	1,153
State .....	2,363	2,365	2,367	2,371	2,369	2,375	2,377	2,385	2,397	2,405	2,406	2,406	2,420
Local .....	7,455	7,475	7,495	7,503	7,509	7,552	7,547	7,527	7,585	7,613	7,606	7,611	7,651

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>
<b>Total private</b> .....	86,073	86,113	86,282	86,526	86,698	86,787	86,903	87,072	87,188	87,337	87,591	87,688	87,938
<b>Goods-producing</b> .....	18,037	17,996	18,043	17,989	17,984	17,803	17,896	17,910	17,889	17,855	17,956	17,920	17,992
<b>Mining</b> .....	450	445	440	440	438	434	432	431	428	424	423	413	403
<b>Construction</b> .....	4,563	4,538	4,596	4,578	4,603	4,623	4,628	4,614	4,640	4,666	4,770	4,748	4,873
<b>Manufacturing</b> .....	13,024	13,013	13,007	12,971	12,943	12,746	12,836	12,865	12,821	12,765	12,763	12,759	12,716
<b>Durable goods</b> .....	7,676	7,669	7,666	7,642	7,626	7,468	7,577	7,584	7,566	7,522	7,519	7,511	7,494
Lumber and wood products .....	660	659	660	660	658	661	660	661	662	664	668	674	675
Furniture and fixtures .....	413	415	418	419	417	420	418	417	417	417	421	420	421
Stone, clay, and glass products .....	441	436	436	436	438	438	440	441	441	444	447	444	446
Primary metal industries .....	564	565	563	561	561	551	558	557	553	546	546	542	542
Fabricated metal products .....	1,132	1,131	1,132	1,127	1,122	1,111	1,118	1,120	1,118	1,115	1,114	1,117	1,110
Industrial machinery and equipment .....	1,391	1,391	1,389	1,389	1,392	1,385	1,384	1,380	1,377	1,367	1,361	1,348	1,342
Electronic and other electrical equipment .....	1,087	1,085	1,081	1,079	1,075	1,062	1,056	1,059	1,050	1,039	1,036	1,033	1,033
Transportation equipment .....	1,283	1,281	1,279	1,267	1,262	1,138	1,245	1,251	1,257	1,243	1,240	1,246	1,238
Motor vehicles and equipment .....	788	784	784	774	768	641	752	757	762	752	752	761	756
Instruments and related products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Miscellaneous manufacturing .....	273	273	274	271	270	271	269	269	264	262	263	261	261
<b>Nondurable goods</b> .....	5,348	5,344	5,341	5,329	5,317	5,278	5,259	5,281	5,255	5,243	5,244	5,248	5,222
Food and kindred products .....	1,267	1,267	1,271	1,273	1,270	1,256	1,249	1,265	1,264	1,272	1,278	1,284	1,281
Tobacco products .....	32	32	33	32	31	30	30	31	31	31	30	31	30
Textile mill products .....	514	513	513	511	509	503	499	502	499	493	491	487	483
Apparel and other textile products .....	645	643	633	627	624	622	613	612	596	587	586	582	569
Paper and allied products .....	525	525	524	522	520	516	517	517	515	512	511	511	510
Printing and publishing .....	848	845	846	847	848	846	844	844	844	840	836	839	836
Chemicals and allied products .....	582	583	583	584	584	584	581	582	581	581	582	583	584
Petroleum and coal products .....	89	89	90	89	89	89	88	89	89	89	91	89	89
Rubber and misc. plastics products .....	781	783	784	781	780	771	778	780	777	779	781	785	785
Leather and leather products .....	65	64	64	63	62	61	60	59	59	59	58	57	55
<b>Service-producing</b> .....	68,036	68,117	68,239	68,537	68,714	68,984	69,007	69,162	69,299	69,482	69,635	69,768	69,946
<b>Transportation and public utilities</b> .....	5,372	5,375	5,373	5,402	5,401	5,424	5,456	5,457	5,472	5,480	5,502	5,526	5,531
<b>Wholesale trade</b> .....	5,431	5,436	5,448	5,457	5,464	5,477	5,479	5,497	5,500	5,510	5,518	5,530	5,531
<b>Retail trade</b> .....	19,605	19,582	19,596	19,710	19,719	19,817	19,795	19,828	19,825	19,878	19,917	19,956	20,066
<b>Finance, insurance, and real estate</b> .....	5,307	5,329	5,353	5,367	5,391	5,416	5,417	5,426	5,449	5,466	5,477	5,495	5,488
<b>Services</b> .....	32,321	32,395	32,469	32,601	32,739	32,850	32,860	32,954	33,053	33,148	33,221	33,261	33,330

<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.
Private nonfarm payrolls, 356 industries <sup>1</sup>												
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	56.6
1999 .....	P53.1	P53.4										
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	57.6	P57.9
1999 .....	P58.1											
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	58.1	P59.7	P56.3	
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	64.0	P62.8	P62.9				
1999 .....												
Manufacturing payrolls, 139 industries <sup>1</sup>												
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	45.7
1999 .....	P43.5	P41.4										
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	35.6	P37.1
1999 .....	P39.6											
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	31.7	P37.4	P30.6	
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	36.7	P32.7	P31.7				
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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
	Total <sup>1</sup>												
Alabama	1,882.1	1,887.5	1,891.2	1,899.0	1,904.3	1,911.3	1,916.6	1,918.8	1,917.3	1,916.4	1,916.8	1,923.0	1,927.8
Alaska	273.2	274.2	274.9	274.6	274.9	274.5	275.2	275.5	276.3	276.8	276.6	276.1	277.8
Arizona	2,037.7	2,038.9	2,049.4	2,055.5	2,070.2	2,080.0	2,084.8	2,091.0	2,099.6	2,101.3	2,113.4	2,117.7	2,109.4
Arkansas	1,117.1	1,118.6	1,119.0	1,118.7	1,120.2	1,122.1	1,124.3	1,124.7	1,125.4	1,129.8	1,132.0	1,131.4	1,131.5
California	13,405.2	13,425.4	13,448.8	13,486.6	13,525.6	13,554.6	13,606.4	13,648.4	13,679.8	13,717.2	13,748.8	13,782.9	13,818.2
Colorado	2,023.7	2,028.2	2,033.8	2,030.4	2,045.5	2,050.6	2,063.1	2,064.8	2,070.0	2,073.7	2,074.6	2,076.2	2,088.0
Connecticut	1,631.4	1,635.5	1,638.4	1,638.5	1,640.8	1,643.3	1,649.3	1,651.3	1,645.8	1,651.4	1,652.5	1,660.3	1,660.5
Delaware	395.4	395.0	396.5	396.2	397.9	398.6	398.5	401.3	401.7	401.8	403.9	406.1	408.0
District of Columbia	615.2	616.3	614.7	614.3	615.2	616.9	610.8	617.8	617.8	615.3	616.4	615.4	615.1
Florida	6,547.9	6,567.3	6,580.2	6,606.6	6,644.0	6,675.9	6,698.5	6,723.1	6,751.8	6,757.8	6,773.0	6,791.4	6,812.2
Georgia	3,685.0	3,694.4	3,706.1	3,702.8	3,721.9	3,733.3	3,741.5	3,761.4	3,774.8	3,772.9	3,782.9	3,796.3	3,799.3
Hawaii	529.8	529.4	528.7	530.0	530.4	530.3	529.3	531.2	536.2	530.7	528.3	527.2	526.3
Idaho	515.2	517.8	518.5	518.9	520.2	520.4	521.1	523.2	522.8	525.9	527.1	532.8	535.8
Illinois	5,846.2	5,853.8	5,851.9	5,865.3	5,878.7	5,886.2	5,918.1	5,921.4	5,921.4	5,929.0	5,937.5	5,947.1	5,944.0
Indiana	2,892.5	2,897.6	2,897.6	2,905.4	2,914.2	2,921.0	2,906.5	2,926.6	2,937.6	2,933.8	2,931.5	2,940.7	2,929.2
Iowa	1,428.4	1,432.5	1,433.0	1,436.6	1,441.3	1,445.4	1,457.3	1,454.2	1,457.1	1,460.1	1,460.8	1,466.9	1,460.6
Kansas	1,296.2	1,300.7	1,298.0	1,303.9	1,309.8	1,314.0	1,312.0	1,316.8	1,316.3	1,322.4	1,328.4	1,330.6	1,334.0
Kentucky	1,734.6	1,735.8	1,739.1	1,746.7	1,749.2	1,754.2	1,757.5	1,761.8	1,760.6	1,763.7	1,763.3	1,765.6	1,770.4
Louisiana	1,876.3	1,881.0	1,882.3	1,891.8	1,896.2	1,896.3	1,904.9	1,905.1	1,907.9	1,908.2	1,913.3	1,918.3	1,912.4
Maine	560.2	565.2	565.5	567.3	567.1	569.8	570.0	570.2	573.0	574.7	576.1	577.1	578.5
Maryland	2,304.6	2,310.1	2,310.5	2,305.7	2,309.9	2,315.9	2,329.5	2,334.2	2,339.7	2,342.5	2,346.6	2,346.3	2,355.2
Massachusetts	3,146.2	3,156.6	3,163.0	3,166.6	3,170.6	3,172.1	3,183.5	3,185.8	3,187.9	3,189.9	3,191.6	3,198.5	3,193.0
Michigan	4,495.4	4,503.5	4,501.9	4,507.8	4,516.5	4,520.8	4,466.8	4,525.6	4,535.3	4,540.1	4,543.9	4,547.1	4,543.7
Minnesota	2,532.2	2,538.6	2,542.8	2,551.1	2,557.3	2,564.0	2,563.2	2,568.8	2,559.4	2,578.4	2,584.8	2,592.3	2,591.8
Mississippi	1,125.0	1,127.2	1,125.9	1,130.1	1,130.7	1,132.6	1,141.4	1,134.5	1,133.2	1,134.5	1,133.8	1,134.9	1,136.1
Missouri	2,662.0	2,673.3	2,665.5	2,673.8	2,687.6	2,694.1	2,688.4	2,693.0	2,698.6	2,702.8	2,708.5	2,717.6	2,709.8
Montana	370.2	370.6	371.0	371.7	372.7	372.0	374.4	374.6	375.1	375.3	376.4	376.8	378.3
Nebraska	865.1	867.7	865.6	872.2	872.5	875.0	882.8	880.1	881.3	882.7	882.6	886.7	877.9
Nevada	903.4	906.7	909.5	914.5	919.4	923.4	927.7	931.9	934.0	943.3	943.9	946.7	947.0
New Hampshire	582.5	584.2	587.0	585.9	586.5	586.9	586.5	586.7	587.8	590.7	591.2	591.5	594.2
New Jersey	3,776.5	3,779.7	3,780.0	3,789.8	3,797.9	3,796.4	3,800.9	3,808.7	3,821.0	3,817.3	3,821.1	3,833.2	3,830.1
New Mexico	716.8	718.6	719.6	719.8	720.0	720.3	721.5	722.6	722.2	723.9	725.3	725.8	726.0
New York	8,164.6	8,188.5	8,193.3	8,198.2	8,222.7	8,231.0	8,213.9	8,239.6	8,258.3	8,275.4	8,289.1	8,311.4	8,303.5
North Carolina	3,715.5	3,725.0	3,730.2	3,747.2	3,757.3	3,758.0	3,795.8	3,816.9	3,806.3	3,811.0	3,814.5	3,823.2	3,835.3
North Dakota	319.9	319.4	320.5	319.9	319.7	315.9	316.1	314.9	317.0	317.1	317.5	319.3	320.0
Ohio	5,447.6	5,454.6	5,457.3	5,469.0	5,474.9	5,478.9	5,445.0	5,485.3	5,489.0	5,497.2	5,498.2	5,501.3	5,486.4
Oklahoma	1,425.3	1,427.6	1,430.9	1,437.6	1,443.0	1,443.6	1,440.8	1,447.0	1,447.0	1,449.7	1,451.6	1,454.2	1,454.5
Oregon	1,543.4	1,547.2	1,549.7	1,550.5	1,555.7	1,556.0	1,557.4	1,559.5	1,561.1	1,565.7	1,571.2	1,573.6	1,574.5
Pennsylvania	5,466.1	5,476.0	5,480.4	5,483.9	5,495.2	5,487.2	5,503.2	5,508.2	5,516.8	5,508.7	5,515.5	5,526.4	5,523.2
Rhode Island	453.4	455.2	455.4	454.8	457.4	457.2	459.7	459.6	462.2	461.7	461.1	461.2	457.9
South Carolina	1,759.7	1,762.9	1,769.0	1,775.8	1,782.6	1,786.1	1,789.2	1,793.6	1,800.0	1,803.2	1,806.0	1,812.0	1,817.4
South Dakota	358.8	359.3	359.1	359.5	360.9	361.0	361.7	361.2	362.1	363.6	363.7	364.9	364.2
Tennessee	2,615.1	2,618.0	2,619.5	2,626.5	2,633.0	2,641.3	2,646.5	2,657.0	2,644.4	2,650.5	2,653.9	2,655.8	2,653.5
Texas	8,806.0	8,836.9	8,861.5	8,878.2	8,908.9	8,926.6	8,955.4	8,978.9	9,001.5	9,026.8	9,046.6	9,063.9	9,083.1
Utah	1,009.6	1,014.1	1,015.0	1,017.2	1,020.3	1,023.3	1,024.9	1,027.9	1,032.3	1,030.6	1,034.2	1,036.9	1,041.0
Vermont	282.4	283.5	284.6	285.6	285.7	285.9	286.0	286.8	287.0	286.1	287.1	288.6	289.3
Virginia	3,265.0	3,275.4	3,281.1	3,289.0	3,303.0	3,313.3	3,309.3	3,321.3	3,329.0	3,337.8	3,341.7	3,348.8	3,342.6
Washington	2,565.0	2,571.6	2,574.2	2,580.7	2,589.8	2,595.7	2,606.3	2,612.5	2,608.7	2,613.7	2,619.0	2,625.6	2,626.4
West Virginia	712.2	714.5	714.4	713.6	727.5	717.4	717.4	718.9	721.3	722.6	722.6	724.3	725.9
Wisconsin	2,690.8	2,698.5	2,699.3	2,709.0	2,714.7	2,717.9	2,712.1	2,722.8	2,718.3	2,720.0	2,725.1	2,731.5	2,734.2
Wyoming	227.3	228.2	228.0	228.6	229.5	227.3	228.6	227.5	226.6	227.3	227.4	228.0	228.5

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
	Construction												
Alabama .....	98.5	98.6	98.9	101.0	101.0	101.9	102.8	103.7	103.0	103.7	104.6	106.2	107.2
Alaska .....	13.8	13.8	14.0	13.7	13.3	13.1	13.2	13.1	13.1	13.2	13.4	13.4	14.2
Arizona .....	138.0	138.4	139.6	140.3	141.9	143.6	144.5	145.2	147.0	147.3	148.9	150.1	153.1
Arkansas .....	48.5	48.5	48.0	48.1	48.0	48.0	47.7	47.6	47.6	48.1	48.4	48.4	49.2
California .....	577.6	575.1	583.1	585.6	591.8	600.1	608.7	612.0	614.3	621.5	625.2	627.1	641.5
Colorado .....	125.4	126.7	128.0	128.7	130.3	131.6	133.4	134.1	136.2	137.3	136.7	135.9	139.4
Connecticut .....	58.8	59.6	59.2	58.4	57.9	57.7	57.6	57.8	58.3	58.4	58.8	60.5	60.9
Delaware .....	22.8	22.6	22.2	22.2	22.0	22.3	22.2	22.3	22.3	21.9	22.3	22.9	23.9
District of Columbia .....	9.2	9.2	9.0	9.1	9.1	9.2	9.0	9.0	9.0	8.8	8.8	8.7	9.0
Florida .....	342.0	343.8	345.0	347.5	349.5	351.8	352.6	355.1	356.3	357.9	358.4	359.7	361.3
Georgia .....	173.4	174.1	175.1	174.9	178.5	182.0	183.7	185.5	186.1	187.8	189.0	192.1	192.5
Hawaii <sup>2</sup> .....	21.5	21.8	21.7	21.8	21.9	21.7	21.4	21.3	21.0	20.5	20.1	20.2	20.7
Idaho .....	32.0	32.0	31.8	32.0	31.9	31.9	32.7	32.8	32.9	33.4	33.8	34.1	35.1
Illinois .....	235.5	236.6	230.0	236.5	236.4	235.7	240.0	239.4	239.3	240.2	240.7	241.8	243.3
Indiana .....	145.4	145.9	142.8	144.2	145.4	145.4	145.2	144.7	144.4	144.9	145.3	145.9	144.0
Iowa .....	61.9	62.4	61.8	61.6	61.9	62.3	63.0	62.8	62.8	62.6	62.1	62.9	63.4
Kansas .....	60.4	61.2	57.9	61.3	61.6	61.8	62.3	62.2	62.0	62.6	62.5	63.8	65.0
Kentucky .....	83.1	82.0	81.6	83.8	83.8	83.9	84.4	84.6	84.7	85.5	84.9	85.3	86.1
Louisiana .....	123.4	125.0	126.6	128.4	129.0	128.9	130.3	129.4	128.8	129.9	130.7	130.6	131.6
Maine .....	24.0	24.2	24.6	25.2	24.8	24.8	24.9	25.0	25.1	25.1	25.0	25.1	26.2
Maryland .....	139.0	139.3	139.2	139.1	138.9	139.7	142.2	143.0	143.4	143.9	143.7	143.8	145.4
Massachusetts .....	105.1	106.2	107.1	107.9	106.5	106.2	108.0	108.3	108.5	109.0	109.2	110.6	113.0
Michigan .....	186.8	188.3	185.8	186.7	185.8	185.8	184.7	183.6	184.7	186.8	188.3	189.6	184.2
Minnesota .....	99.1	100.2	99.9	101.4	101.1	100.9	101.0	101.3	101.9	103.3	104.5	106.5	108.2
Mississippi .....	53.5	53.8	53.2	53.5	53.2	54.0	54.4	55.1	55.4	56.0	56.7	56.8	57.9
Missouri .....	121.7	122.7	119.2	123.5	124.6	124.9	133.5	128.7	128.8	129.4	132.0	134.7	130.0
Montana .....	19.3	19.0	19.0	18.9	18.9	18.8	18.8	18.7	18.5	18.5	18.6	18.9	18.9
Nebraska .....	40.5	40.8	39.1	40.2	40.4	40.3	41.7	42.0	42.0	42.0	41.0	42.7	41.7
Nevada .....	82.1	82.4	82.7	83.7	85.5	86.3	85.8	86.6	86.1	86.3	86.6	87.0	87.5
New Hampshire .....	22.6	22.4	23.0	22.5	22.4	22.5	22.6	22.8	22.9	23.5	23.7	24.0	23.6
New Jersey .....	134.4	134.4	134.8	135.0	134.3	134.6	135.1	135.2	136.0	135.4	135.6	136.7	137.6
New Mexico .....	43.2	43.3	43.2	43.7	43.9	43.6	43.7	43.6	43.4	43.6	43.6	43.9	44.5
New York .....	275.8	280.8	280.0	280.3	280.1	281.3	281.1	283.0	283.6	285.0	287.9	290.1	292.1
North Carolina .....	207.9	207.2	207.4	212.0	214.1	215.5	216.2	216.1	215.5	217.5	218.4	219.3	220.4
North Dakota .....	15.8	15.5	15.9	15.8	15.5	15.3	15.1	14.9	15.0	14.9	14.9	15.3	14.7
Ohio .....	226.0	227.9	225.4	227.7	226.2	226.7	227.7	226.8	226.3	226.5	226.8	227.6	228.0
Oklahoma .....	52.9	53.4	53.5	54.1	54.5	54.4	54.4	54.4	54.7	54.7	55.1	55.5	55.6
Oregon .....	82.3	82.3	82.1	82.3	81.4	81.9	82.5	82.5	81.6	83.7	83.3	84.3	85.0
Pennsylvania .....	216.3	218.2	217.8	218.9	218.0	219.0	219.8	220.6	220.6	220.6	222.3	224.5	221.2
Rhode Island .....	15.0	15.3	15.5	15.6	15.4	15.3	15.3	15.7	15.8	15.9	15.6	15.8	15.3
South Carolina .....	102.5	102.4	102.6	103.6	105.2	105.3	106.3	106.8	107.9	108.6	108.8	109.6	109.0
South Dakota .....	15.9	15.8	15.6	15.9	16.3	16.1	16.1	16.0	15.9	16.2	16.2	16.4	16.4
Tennessee .....	121.1	120.4	118.4	120.9	121.7	122.5	123.9	124.6	124.9	125.7	126.0	126.8	129.4
Texas .....	477.3	481.6	484.5	488.5	491.7	495.0	501.6	503.1	503.0	507.1	508.2	508.8	512.6
Utah .....	66.1	66.9	66.4	66.5	67.1	67.7	68.0	68.7	69.3	70.1	70.7	71.5	72.3
Vermont .....	13.4	13.8	14.2	14.8	14.4	14.2	14.3	14.1	14.0	13.9	13.9	14.4	15.1
Virginia .....	184.8	185.5	185.5	187.0	188.1	189.1	188.8	189.7	190.4	192.1	192.4	192.9	191.3
Washington .....	139.1	140.1	140.4	140.6	141.7	141.8	142.9	143.0	142.7	143.5	144.0	145.0	146.1
West Virginia .....	34.7	34.8	34.2	34.1	34.0	34.5	34.3	33.9	34.3	34.9	35.0	35.7	35.5
Wisconsin .....	108.7	109.8	109.6	112.7	111.9	111.7	112.5	112.9	112.8	113.5	114.9	116.7	115.1
Wyoming .....	16.0	16.1	15.8	15.9	16.3	15.8	15.9	15.7	15.5	15.6	15.7	15.9	16.3

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.P
	Manufacturing												
Alabama .....	380.6	380.7	380.1	379.9	380.4	380.1	380.6	379.6	379.6	377.6	374.4	374.9	375.0
Alaska .....	15.0	14.9	14.6	14.3	14.2	13.9	14.2	14.4	14.7	15.1	15.1	13.4	15.7
Arizona .....	214.6	215.6	216.6	216.4	216.8	217.3	217.0	217.4	217.8	218.1	218.2	218.6	217.1
Arkansas .....	254.4	255.0	254.6	253.9	254.1	254.2	253.6	253.7	254.1	254.0	253.8	254.1	254.5
California .....	1,951.4	1,956.1	1,957.8	1,959.2	1,963.3	1,963.8	1,963.6	1,964.6	1,965.6	1,965.7	1,960.6	1,959.5	1,958.8
Colorado .....	208.2	208.7	209.0	208.7	208.7	208.9	208.3	207.3	206.3	206.3	206.0	205.6	206.3
Connecticut .....	279.1	279.7	280.0	279.3	278.4	277.7	279.2	279.3	278.0	277.4	276.4	275.6	276.8
Delaware .....	58.1	58.2	59.6	59.7	60.0	60.2	58.0	59.9	59.8	60.1	60.5	60.6	59.8
District of Columbia .....	12.4	12.4	12.3	12.4	12.4	12.4	12.4	12.6	12.5	12.5	12.5	12.6	11.9
Florida .....	493.0	493.2	493.0	495.7	496.1	497.2	498.9	499.1	499.6	497.8	498.0	498.5	498.2
Georgia .....	589.5	590.0	592.0	591.0	592.6	593.5	589.6	595.1	594.4	595.2	595.7	597.0	595.8
Hawaii .....	16.5	16.5	16.4	16.3	16.4	16.3	16.3	16.2	16.5	16.2	16.2	16.2	16.2
Idaho .....	76.1	76.3	76.2	76.3	76.5	76.5	76.6	75.9	76.0	75.9	76.2	76.1	74.7
Illinois .....	979.9	979.2	978.2	978.1	977.8	979.2	979.6	978.0	978.4	975.8	973.2	973.1	972.1
Indiana .....	682.1	683.3	684.6	684.7	684.4	684.8	675.1	685.1	684.1	685.1	684.6	684.9	686.3
Iowa .....	257.7	258.8	259.5	260.0	260.8	261.4	263.4	263.3	262.9	263.3	263.4	263.6	262.6
Kansas .....	212.0	212.7	212.9	212.9	213.7	213.2	211.1	213.7	213.9	214.1	214.2	214.4	214.9
Kentucky .....	320.1	320.6	319.0	321.4	322.0	321.6	321.2	321.6	321.4	322.8	321.9	321.4	321.0
Louisiana .....	192.3	192.6	192.9	192.9	193.3	190.6	190.9	192.4	191.8	191.2	191.9	192.0	192.4
Maine .....	88.0	88.0	87.7	87.7	87.3	87.2	86.5	86.2	86.9	85.9	85.9	85.4	86.6
Maryland .....	178.6	179.7	179.3	178.3	178.6	178.7	176.4	176.1	176.7	177.2	176.6	176.7	176.5
Massachusetts .....	452.8	453.8	453.3	451.8	450.8	449.5	450.1	447.1	445.3	443.4	441.5	440.2	438.5
Michigan .....	972.7	972.3	973.9	974.0	973.6	969.9	915.3	972.2	971.5	970.6	966.9	966.7	962.7
Minnesota .....	444.6	443.6	444.5	443.9	444.3	444.7	443.5	444.6	444.2	445.1	445.1	445.0	445.1
Mississippi .....	244.3	244.5	244.3	244.7	244.9	245.2	245.5	243.7	244.4	244.9	244.3	244.9	244.1
Missouri .....	420.5	420.2	419.5	421.5	422.8	423.4	415.5	423.3	423.4	421.6	419.6	420.0	420.6
Montana .....	24.4	24.3	24.3	24.5	24.7	24.5	24.5	24.5	24.6	24.8	25.0	25.0	24.9
Nebraska .....	118.4	118.9	119.1	120.0	119.9	119.7	119.4	118.7	118.6	118.3	117.8	118.0	118.1
Nevada .....	41.4	41.5	41.6	41.5	42.0	42.3	42.5	42.4	42.5	42.5	42.5	42.4	42.3
New Hampshire .....	109.7	109.7	109.6	109.2	109.0	108.7	107.7	107.2	107.3	107.3	107.3	107.3	107.4
New Jersey .....	484.0	482.4	480.9	480.3	480.4	478.6	475.7	476.9	476.2	474.5	473.7	473.6	474.6
New Mexico .....	46.6	46.3	46.0	45.7	45.3	45.2	44.8	44.6	44.4	44.1	44.1	44.1	44.1
New York .....	923.5	924.2	921.4	918.9	917.7	917.5	906.4	918.8	917.7	916.8	914.6	915.0	914.6
North Carolina .....	829.0	829.6	829.2	830.4	829.1	825.8	826.0	825.3	823.8	821.7	820.4	818.4	816.1
North Dakota .....	24.3	24.3	24.2	23.9	24.0	24.1	24.0	24.1	24.1	23.8	24.2	24.3	23.9
Ohio .....	1,101.1	1,101.9	1,101.3	1,101.1	1,099.2	1,096.9	1,059.4	1,095.8	1,096.0	1,097.7	1,093.8	1,091.8	1,092.8
Oklahoma .....	184.9	185.5	185.7	186.1	186.1	186.9	183.7	186.3	185.9	186.2	186.3	186.1	186.7
Oregon .....	247.1	247.9	247.9	247.3	247.4	245.9	244.3	243.2	242.0	241.5	241.7	241.9	243.0
Pennsylvania .....	946.5	947.9	947.8	948.4	948.1	947.3	947.2	945.5	942.9	939.8	939.7	938.1	936.0
Rhode Island .....	79.4	79.7	79.2	78.7	78.9	78.9	78.7	78.5	78.6	78.4	78.1	77.9	77.9
South Carolina .....	363.1	362.5	363.3	364.9	364.3	363.4	364.4	362.6	364.5	363.1	363.1	363.2	363.5
South Dakota .....	49.6	49.5	49.5	49.2	49.3	49.4	49.6	49.7	49.8	49.8	49.8	50.0	50.2
Tennessee .....	517.9	518.7	518.5	517.5	517.5	516.6	515.3	514.0	512.3	511.2	510.0	509.7	510.3
Texas .....	1,106.5	1,106.5	1,107.3	1,107.2	1,107.9	1,108.2	1,107.5	1,108.5	1,107.7	1,107.2	1,106.5	1,106.7	1,106.1
Utah .....	134.2	133.9	134.2	134.3	133.8	133.7	133.9	133.6	133.6	133.2	134.1	134.1	134.8
Vermont .....	47.7	47.7	47.6	48.1	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.8	49.1
Virginia .....	408.4	407.6	407.3	406.6	406.1	405.2	403.4	404.7	404.6	403.3	402.5	401.9	401.9
Washington .....	380.1	381.2	381.4	380.9	381.6	382.2	381.9	380.4	378.7	376.4	375.4	374.6	373.9
West Virginia .....	82.3	82.5	82.8	82.3	82.9	82.6	82.7	82.2	82.0	82.2	82.2	82.1	80.4
Wisconsin .....	617.8	618.8	619.0	618.1	619.0	619.0	611.3	618.4	616.5	615.4	616.1	615.8	616.8
Wyoming .....	10.7	10.9	10.9	10.9	10.9	10.9	10.9	11.0	10.9	10.8	10.8	10.9	10.9

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
	Transportation and public utilities												
Alabama .....	92.0	92.3	92.2	92.1	92.5	92.5	92.7	92.7	92.6	92.5	92.6	92.7	93.2
Alaska .....	25.1	25.2	25.4	25.4	25.6	25.5	25.6	25.9	25.7	25.8	25.8	25.9	25.9
Arizona .....	98.7	98.9	99.2	99.7	100.1	100.6	101.0	101.4	102.8	102.8	103.2	104.0	104.8
Arkansas .....	66.9	67.0	67.1	67.5	67.4	67.6	68.0	68.2	68.3	69.0	69.1	69.2	68.4
California .....	686.4	689.5	690.7	694.6	694.8	695.0	695.0	695.0	696.2	697.3	699.2	701.8	705.2
Colorado .....	126.8	126.5	127.1	127.6	128.3	129.0	129.6	130.4	131.1	131.4	132.0	132.2	134.2
Connecticut .....	75.6	75.9	75.8	76.0	76.2	76.3	77.0	76.8	70.5	76.4	76.2	76.2	76.2
Delaware .....	16.1	16.2	16.1	15.9	16.0	16.0	16.1	16.3	16.5	16.5	16.8	16.9	17.3
District of Columbia .....	16.9	16.8	16.5	16.3	16.3	16.1	16.1	16.1	15.8	15.8	15.8	15.8	16.1
Florida .....	330.4	330.8	331.0	332.4	334.1	334.8	336.5	339.2	341.4	341.8	343.0	344.6	347.8
Georgia .....	238.4	238.3	239.6	240.8	241.6	241.1	242.8	243.6	244.3	245.2	246.2	247.2	246.5
Hawaii .....	41.5	41.2	41.2	41.1	41.1	41.1	41.4	41.1	41.2	40.7	40.4	40.1	40.2
Idaho .....	24.9	24.9	25.0	25.2	25.4	25.5	25.7	25.9	25.9	26.0	25.8	25.9	26.4
Illinois .....	343.8	345.0	345.4	346.2	347.4	347.4	346.4	347.6	348.0	349.4	350.4	352.0	353.4
Indiana .....	143.1	142.0	142.3	143.0	143.7	144.2	145.0	144.8	144.8	145.2	145.5	145.8	146.4
Iowa .....	67.6	67.8	68.1	68.4	68.6	68.9	69.8	69.8	70.0	70.4	70.5	70.8	70.2
Kansas .....	73.9	74.4	74.2	73.8	73.9	73.6	74.5	74.8	75.2	76.2	76.5	77.2	77.0
Kentucky .....	99.4	99.9	100.5	101.4	101.7	101.5	101.8	102.3	102.6	102.5	102.2	102.8	103.5
Louisiana .....	111.7	112.0	112.2	112.6	113.0	113.3	114.0	114.4	114.6	115.0	115.6	116.3	115.4
Maine .....	23.3	23.4	23.4	23.4	23.5	23.5	23.6	23.6	23.6	23.9	23.9	24.0	24.2
Maryland .....	107.6	107.7	107.7	108.1	107.9	108.2	108.8	109.7	109.5	109.8	109.9	110.0	110.8
Massachusetts .....	135.3	135.8	135.7	135.8	136.2	136.4	137.0	136.2	136.2	135.6	135.4	135.4	137.0
Michigan .....	177.4	177.8	177.9	177.6	178.0	178.4	178.1	178.1	177.8	178.4	178.5	178.2	180.2
Minnesota .....	127.5	127.5	127.9	128.3	128.4	128.7	128.9	128.9	116.3	129.2	129.6	130.3	130.4
Mississippi .....	53.5	53.8	53.8	53.9	53.8	53.8	53.8	53.9	53.7	53.8	53.0	53.5	53.9
Missouri .....	167.1	167.2	166.8	166.1	166.5	166.3	165.1	164.9	165.4	165.7	166.1	166.9	167.2
Montana .....	21.5	21.7	21.6	21.7	21.6	21.6	21.6	21.4	21.4	21.7	21.7	21.8	22.1
Nebraska .....	55.0	55.1	54.8	55.1	55.3	55.7	56.3	56.6	57.1	57.4	57.8	58.2	58.2
Nevada .....	47.3	47.5	47.7	48.0	48.0	47.9	47.8	47.9	48.0	48.2	48.2	48.3	48.6
New Hampshire .....	19.6	19.7	20.0	20.0	20.1	20.3	20.6	20.9	20.8	21.0	21.1	21.1	21.3
New Jersey .....	257.9	258.9	259.2	258.9	260.7	260.8	261.2	261.7	262.9	262.0	261.5	261.6	262.3
New Mexico .....	33.0	32.9	33.0	33.0	33.2	33.5	33.6	33.8	33.7	33.7	33.9	33.9	34.2
New York .....	411.4	411.4	410.7	411.8	412.5	412.9	412.6	412.5	413.5	413.1	412.9	412.7	415.6
North Carolina .....	171.2	170.7	170.8	171.2	171.2	171.9	172.2	172.6	172.8	172.8	173.7	173.3	174.8
North Dakota .....	18.0	17.8	18.3	18.0	18.0	17.9	17.8	17.5	17.6	17.7	17.6	17.7	17.8
Ohio .....	239.4	239.4	239.4	241.3	241.2	241.8	241.7	242.4	242.9	243.2	243.0	242.7	243.5
Oklahoma .....	81.3	81.7	81.5	81.9	82.1	82.2	82.4	82.9	82.9	83.2	83.5	83.5	84.1
Oregon .....	76.2	76.2	76.3	76.6	76.8	76.9	76.4	76.1	77.0	76.7	76.8	77.0	77.8
Pennsylvania .....	284.1	284.3	284.6	285.6	285.8	286.2	286.0	286.4	286.8	287.1	287.5	287.3	289.4
Rhode Island .....	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
South Carolina .....	76.7	76.9	76.5	77.0	76.7	76.8	76.8	76.8	77.3	77.5	77.6	78.0	79.0
South Dakota .....	16.1	16.4	16.4	16.4	16.4	16.5	16.7	16.7	16.9	16.7	16.8	16.9	16.6
Tennessee .....	155.8	156.6	157.0	158.4	157.8	158.6	158.9	158.3	158.6	158.6	158.2	158.2	159.9
Texas .....	529.9	532.5	534.7	536.6	539.4	539.6	543.2	545.9	547.5	549.1	550.5	551.6	555.5
Utah .....	57.3	57.7	57.7	57.8	58.3	58.3	58.6	59.1	59.2	59.3	59.3	59.5	59.5
Vermont .....	12.5	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	12.6	12.6	12.5	12.5
Virginia .....	170.3	170.3	170.6	172.0	173.0	173.5	173.5	173.7	173.8	174.7	174.9	175.6	175.9
Washington .....	134.7	134.6	134.4	135.3	135.6	135.6	136.4	137.1	137.4	137.6	138.4	138.8	140.2
West Virginia .....	39.0	38.9	38.7	38.7	38.7	38.8	39.0	38.9	39.3	39.4	39.3	39.2	39.2
Wisconsin .....	125.3	125.6	125.9	126.5	126.9	127.7	128.0	128.0	128.2	128.2	128.4	128.9	128.4
Wyoming .....	13.8	13.9	13.9	14.0	13.9	13.9	13.9	13.9	13.9	14.0	13.9	14.0	13.8

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. P
	Trade												
Alabama .....	428.2	430.9	432.9	436.5	438.4	440.5	444.1	444.0	442.8	443.4	443.3	444.9	449.4
Alaska .....	56.2	56.7	56.9	56.9	57.0	56.9	56.9	57.0	57.4	57.0	56.6	57.3	56.8
Arizona .....	490.9	492.1	494.1	493.3	496.6	500.3	500.0	502.5	503.6	504.0	504.5	506.1	508.2
Arkansas .....	254.7	254.5	255.6	255.0	255.7	256.4	256.2	256.6	257.3	257.9	258.2	258.3	258.1
California .....	3,090.7	3,092.7	3,096.7	3,104.0	3,112.0	3,117.4	3,127.6	3,135.5	3,138.4	3,141.4	3,148.8	3,158.5	3,150.7
Colorado .....	485.7	487.0	487.6	488.4	490.5	491.8	495.7	497.2	498.9	499.3	500.1	500.8	503.8
Connecticut .....	353.0	354.4	355.1	354.8	355.6	355.8	355.1	355.4	354.5	355.4	356.9	358.9	357.4
Delaware .....	86.3	86.1	86.1	86.2	86.5	86.3	86.7	87.1	87.8	87.8	88.0	88.4	88.5
District of Columbia .....	47.6	47.8	47.4	48.2	48.0	48.5	48.9	48.7	49.3	48.5	48.5	48.5	47.4
Florida .....	1,664.3	1,663.5	1,665.8	1,671.2	1,677.3	1,683.5	1,687.0	1,693.5	1,697.2	1,699.1	1,700.5	1,702.9	1,708.7
Georgia .....	920.5	923.2	927.6	922.8	928.4	930.1	931.5	932.7	935.4	934.5	935.3	936.4	936.2
Hawaii .....	132.9	132.7	132.3	132.0	132.3	131.9	131.0	131.8	131.7	131.7	131.1	130.7	130.6
Idaho .....	130.5	131.3	131.3	131.7	132.5	132.6	132.2	132.9	132.9	133.5	134.2	134.3	135.8
Illinois .....	1,327.3	1,328.1	1,327.7	1,326.9	1,329.9	1,330.9	1,338.1	1,337.2	1,337.9	1,342.3	1,345.4	1,347.4	1,351.9
Indiana .....	682.0	684.1	684.0	685.2	688.1	689.7	691.5	690.5	690.5	689.9	686.2	688.7	687.3
Iowa .....	350.4	351.4	351.1	351.6	352.8	353.7	355.0	355.1	355.7	356.1	357.0	358.2	359.3
Kansas .....	314.9	316.0	316.3	317.0	318.4	319.7	319.0	319.1	319.1	319.0	321.0	322.3	322.7
Kentucky .....	411.1	411.1	414.4	414.8	415.8	417.2	417.7	418.2	417.6	418.7	418.8	419.8	421.1
Louisiana .....	435.8	437.3	436.7	439.8	441.6	442.6	443.9	445.6	446.0	445.8	447.5	448.8	446.3
Maine .....	141.0	141.3	142.0	141.7	142.5	142.9	142.2	143.0	143.9	145.2	146.2	146.1	145.2
Maryland .....	538.4	541.2	540.3	538.3	538.2	538.9	540.2	539.1	538.7	538.4	539.3	537.4	541.2
Massachusetts .....	711.9	714.4	715.8	716.5	718.9	717.9	723.7	724.8	726.2	725.8	726.7	727.2	722.0
Michigan .....	1,057.2	1,061.7	1,061.5	1,062.8	1,066.3	1,064.5	1,066.5	1,067.7	1,071.2	1,072.3	1,075.0	1,076.1	1,081.1
Minnesota .....	605.7	607.1	607.4	609.4	611.4	613.8	617.5	617.6	617.9	618.8	620.1	621.3	618.3
Mississippi .....	242.8	243.7	244.1	243.9	244.5	245.0	246.0	244.9	244.4	244.9	244.0	243.6	243.8
Missouri .....	629.5	630.1	630.6	628.7	631.2	632.3	634.5	635.4	636.4	636.1	635.7	638.3	636.9
Montana .....	99.8	100.2	100.5	100.2	100.3	100.2	100.6	100.9	100.7	100.4	100.6	100.8	101.2
Nebraska .....	210.4	210.6	209.9	210.6	211.1	212.3	213.6	213.3	214.3	214.6	214.9	214.4	211.5
Nevada .....	185.5	185.8	186.4	186.9	188.5	188.8	190.2	190.5	191.1	192.1	192.3	193.6	193.8
New Hampshire .....	150.2	151.0	151.9	151.6	151.9	152.1	152.4	152.5	152.7	154.3	153.9	154.9	154.2
New Jersey .....	880.2	881.1	880.7	882.0	883.7	883.5	883.9	885.2	889.0	888.4	890.5	895.5	894.4
New Mexico .....	168.9	169.7	169.9	170.0	170.3	170.7	170.8	170.6	171.2	171.8	172.0	172.2	171.2
New York .....	1,653.6	1,657.6	1,657.3	1,652.7	1,658.7	1,659.2	1,664.5	1,665.5	1,668.9	1,671.2	1,675.3	1,678.4	1,675.5
North Carolina .....	839.7	842.1	844.2	846.6	848.8	849.9	858.2	859.9	862.1	864.8	863.6	867.2	872.7
North Dakota .....	81.1	81.2	81.1	80.8	80.7	80.7	81.0	81.0	81.1	81.0	80.6	80.7	81.3
Ohio .....	1,314.2	1,318.2	1,319.7	1,321.4	1,323.9	1,323.8	1,326.5	1,328.0	1,328.4	1,328.6	1,332.1	1,334.8	1,331.2
Oklahoma .....	329.2	329.7	329.9	331.9	332.7	332.1	331.2	331.8	331.7	332.6	333.9	334.8	333.7
Oregon .....	379.9	381.9	382.1	382.9	384.2	384.4	385.0	384.2	384.7	385.6	386.5	387.7	386.7
Pennsylvania .....	1,221.9	1,224.6	1,224.4	1,225.6	1,227.7	1,228.7	1,233.5	1,235.5	1,235.5	1,234.5	1,235.8	1,238.7	1,241.9
Rhode Island .....	97.6	97.9	97.9	97.8	98.2	98.1	99.5	99.7	100.1	99.7	99.9	100.2	99.4
South Carolina .....	420.9	422.8	425.5	426.5	428.3	429.1	430.4	431.6	433.1	435.1	437.4	440.2	437.9
South Dakota .....	89.5	89.4	89.3	89.6	90.1	90.0	89.3	89.1	89.2	89.1	89.3	89.8	90.2
Tennessee .....	616.5	617.0	617.6	620.2	622.6	623.8	626.1	626.0	626.8	627.8	629.4	629.8	627.0
Texas .....	2,085.0	2,089.9	2,095.2	2,098.0	2,105.6	2,108.0	2,108.5	2,112.4	2,117.9	2,121.3	2,124.7	2,128.4	2,125.7
Utah .....	242.3	242.3	242.4	242.7	243.1	243.8	242.9	243.4	243.3	243.2	242.6	242.8	245.6
Vermont .....	64.8	65.1	65.4	65.4	65.5	65.5	65.7	65.7	65.8	65.8	66.0	66.0	65.0
Virginia .....	724.2	726.9	728.3	728.8	731.4	733.5	731.7	734.8	735.3	739.5	739.1	739.9	738.1
Washington .....	615.3	617.0	618.6	620.2	622.6	623.9	625.7	627.8	629.4	631.4	633.4	635.7	634.0
West Virginia .....	161.8	162.3	162.5	162.2	162.6	163.8	163.1	163.4	164.2	164.6	164.5	164.4	165.8
Wisconsin .....	607.2	608.9	609.1	609.6	610.9	612.3	610.2	610.7	609.6	610.5	609.6	612.1	611.6
Wyoming .....	52.5	52.9	52.9	53.0	53.5	52.9	52.6	52.4	52.2	52.4	52.4	52.6	52.6

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
	Finance, insurance, and real estate												
Alabama .....	86.5	86.8	87.1	87.4	87.5	87.5	87.3	87.6	87.7	87.8	87.9	88.1	88.3
Alaska .....	12.4	12.4	12.5	12.5	12.5	12.5	12.5	12.6	12.5	12.5	12.6	12.6	12.6
Arizona .....	132.6	133.2	134.1	137.3	139.1	140.4	140.9	141.4	141.5	142.1	142.6	143.4	142.5
Arkansas .....	45.0	45.1	45.0	45.0	44.9	45.0	45.0	45.0	45.0	44.9	45.0	45.0	45.2
California .....	781.8	784.6	788.4	791.4	795.4	798.5	802.0	803.6	806.0	808.3	807.6	808.2	810.7
Colorado .....	131.8	132.5	133.0	133.8	134.5	135.4	136.5	137.0	137.1	137.1	137.1	137.8	138.2
Connecticut .....	133.8	133.7	134.1	134.0	134.3	134.8	137.2	137.5	137.5	137.6	137.8	138.5	138.8
Delaware .....	48.4	48.5	48.4	47.7	48.1	48.7	48.8	48.9	49.1	48.9	49.2	49.6	50.1
District of Columbia .....	28.6	29.0	28.9	28.9	29.0	29.1	29.1	29.2	28.9	28.9	29.0	29.1	29.0
Florida .....	419.6	421.3	422.9	426.2	428.6	430.8	431.5	433.6	435.2	436.4	437.7	438.9	439.7
Georgia .....	194.3	195.3	196.4	197.6	198.5	199.3	200.6	201.5	202.1	202.4	203.0	203.9	204.8
Hawaii .....	35.7	35.5	35.5	35.5	35.5	35.6	35.6	35.5	35.5	35.6	35.3	35.2	35.3
Idaho .....	22.7	22.7	22.5	22.5	22.4	22.6	22.9	23.0	23.1	23.2	23.2	23.3	23.8
Illinois .....	401.6	402.9	403.1	405.1	402.9	403.9	404.9	406.5	406.6	406.7	406.6	408.0	408.2
Indiana .....	139.6	139.7	139.8	140.0	140.2	140.4	141.2	141.8	142.4	143.3	143.6	144.0	144.2
Iowa .....	81.5	81.8	81.9	82.3	82.5	83.0	83.5	83.6	83.9	84.3	84.2	84.1	83.6
Kansas .....	61.0	61.2	61.3	61.5	61.7	61.9	62.2	62.2	62.3	62.4	62.6	62.7	63.0
Kentucky .....	69.9	69.7	69.7	69.6	69.8	69.9	70.1	70.1	70.2	70.3	70.4	70.5	70.8
Louisiana .....	86.4	86.3	86.5	86.5	86.7	86.7	87.1	87.1	87.1	86.8	86.8	87.0	86.5
Maine .....	29.3	29.3	29.4	29.6	29.6	29.8	30.0	29.7	29.7	30.0	30.2	30.3	30.7
Maryland .....	132.8	132.9	133.4	133.5	133.9	134.2	135.0	135.3	135.5	133.3	134.5	134.9	135.7
Massachusetts .....	213.5	213.9	214.7	215.7	216.1	216.2	217.4	217.6	218.3	218.6	219.2	220.0	219.1
Michigan .....	208.9	209.6	210.1	210.1	209.9	209.4	209.3	208.7	209.2	209.3	209.5	209.1	210.3
Minnesota .....	151.5	152.6	153.4	154.5	155.1	155.9	157.3	157.9	158.2	158.7	159.5	160.0	159.4
Mississippi .....	42.4	42.5	42.6	42.6	42.4	42.3	42.2	42.3	42.3	42.3	42.3	42.2	42.5
Missouri .....	158.9	160.2	160.1	159.5	160.8	161.6	161.3	162.0	163.1	163.8	164.4	164.9	164.9
Montana .....	16.8	16.9	16.8	16.9	16.9	16.9	17.0	17.1	17.3	17.2	17.3	17.3	17.4
Nebraska .....	55.6	55.9	56.4	57.2	57.0	57.4	57.9	58.1	58.1	58.2	58.5	58.6	58.6
Nevada .....	41.9	42.2	42.5	42.6	43.0	43.2	43.5	43.6	44.0	44.2	44.7	44.8	44.9
New Hampshire .....	30.8	30.9	31.0	31.1	31.1	31.3	31.3	31.3	31.4	31.3	31.5	31.5	31.5
New Jersey .....	246.0	245.5	245.3	247.1	247.9	248.1	247.4	248.5	249.2	249.9	249.8	250.7	252.8
New Mexico .....	31.6	31.7	31.7	31.7	31.8	31.9	31.9	31.8	32.0	32.1	32.1	32.2	32.1
New York .....	732.8	731.2	731.6	732.4	734.2	736.3	735.9	737.3	737.7	739.2	739.7	742.0	741.1
North Carolina .....	172.8	173.9	175.0	175.5	176.8	177.5	178.8	180.2	181.6	181.8	182.6	183.1	182.7
North Dakota .....	15.3	15.4	15.5	15.7	15.7	15.7	15.6	15.6	15.5	15.8	15.9	16.0	16.2
Ohio .....	295.2	295.2	296.4	297.6	298.8	298.8	299.1	299.9	300.1	301.4	301.7	301.9	302.6
Oklahoma .....	71.3	71.5	72.0	72.5	72.8	73.0	73.2	73.6	74.0	74.5	74.6	74.8	75.3
Oregon .....	94.6	94.6	94.7	94.8	94.9	95.2	95.4	95.5	95.7	95.6	95.4	95.5	95.9
Pennsylvania .....	315.9	316.5	317.1	317.3	317.6	317.6	318.6	319.3	319.2	319.4	319.7	320.0	319.9
Rhode Island .....	27.3	27.4	27.6	27.7	28.3	28.5	28.7	28.9	29.0	29.3	29.4	29.3	29.0
South Carolina .....	77.8	78.0	78.5	79.1	79.8	79.9	80.0	80.5	80.8	81.1	81.2	81.7	82.0
South Dakota .....	21.6	21.8	21.8	21.9	22.1	22.3	22.4	22.5	23.0	23.0	23.2	23.3	23.4
Tennessee .....	122.9	123.2	123.6	124.6	125.2	125.4	125.9	126.1	126.9	127.1	127.3	127.1	126.8
Texas .....	482.8	484.9	487.6	490.6	492.7	494.3	497.5	499.3	500.8	502.9	504.6	507.1	509.3
Utah .....	53.4	53.9	54.0	54.4	54.8	55.2	55.6	56.2	56.3	56.6	56.5	56.3	56.3
Vermont .....	12.3	12.2	12.2	12.2	12.2	12.2	12.2	12.3	12.3	12.4	12.5	12.6	12.7
Virginia .....	171.6	172.2	172.9	173.8	175.1	175.5	175.8	176.2	176.8	177.4	177.6	177.1	176.3
Washington .....	131.3	132.0	132.5	133.3	133.9	134.6	135.7	136.6	136.7	137.2	137.5	138.2	139.1
West Virginia .....	28.5	28.4	28.5	28.5	28.5	28.4	28.6	28.6	28.7	28.9	28.9	29.0	29.7
Wisconsin .....	141.7	142.0	142.1	142.8	143.1	143.5	144.0	144.3	144.5	144.9	145.4	145.8	146.5
Wyoming .....	8.4	8.5	8.6	8.5	8.7	8.6	8.6	8.6	8.7	8.6	8.7	8.6	8.7

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
	Services												
Alabama .....	437.9	440.1	441.9	444.9	447.1	451.0	452.2	453.7	453.0	452.6	454.7	456.2	457.1
Alaska .....	66.9	67.2	67.7	68.1	68.4	68.7	68.7	68.8	68.8	69.4	69.3	69.4	69.4
Arizona .....	608.7	608.9	612.6	618.3	623.1	627.6	630.9	634.5	637.1	637.5	640.7	643.4	629.4
Arkansas .....	259.7	260.4	260.6	261.2	261.6	262.0	263.8	264.0	263.8	265.7	266.4	267.0	266.5
California .....	4,147.3	4,158.7	4,156.6	4,174.2	4,187.3	4,194.9	4,228.5	4,245.7	4,260.7	4,273.4	4,289.9	4,304.2	4,333.7
Colorado .....	611.9	613.4	615.1	609.2	618.2	618.3	621.9	623.0	623.5	625.4	625.5	626.9	627.9
Connecticut .....	505.0	506.1	507.2	509.0	511.2	513.5	514.7	515.4	515.7	516.3	517.0	520.1	520.0
Delaware .....	109.8	109.5	110.1	110.5	111.0	111.0	112.2	112.6	112.1	112.5	112.9	113.2	113.5
District of Columbia .....	271.6	273.0	273.2	272.1	273.3	275.2	274.4	274.8	275.5	275.0	275.8	275.6	275.5
Florida .....	2,338.0	2,357.0	2,362.9	2,374.0	2,396.9	2,416.1	2,428.2	2,440.2	2,455.5	2,457.5	2,464.6	2,475.3	2,486.5
Georgia .....	977.7	981.6	984.4	984.4	991.0	996.0	1,000.6	1,006.2	1,007.8	1,011.8	1,017.6	1,022.1	1,024.2
Hawaii .....	170.3	170.7	170.2	171.8	172.0	172.5	171.9	172.7	172.5	173.4	173.1	172.9	172.5
Idaho .....	124.2	125.1	125.5	126.0	126.3	125.6	125.5	126.9	126.4	127.4	127.3	131.8	133.4
Illinois .....	1,735.7	1,740.7	1,745.0	1,751.9	1,762.1	1,764.2	1,775.9	1,777.7	1,778.1	1,787.3	1,794.1	1,801.4	1,790.8
Indiana .....	695.5	698.9	700.6	703.2	706.5	710.8	714.2	714.6	718.8	715.6	715.6	718.6	711.7
Iowa .....	371.4	372.2	373.4	375.4	377.2	379.0	384.4	382.3	382.0	384.2	385.0	386.7	381.4
Kansas .....	328.3	329.1	329.1	330.3	331.7	335.1	335.2	335.3	336.0	337.4	340.3	340.8	341.9
Kentucky .....	435.6	437.2	438.3	439.6	440.9	443.2	444.5	445.1	445.3	445.8	447.1	447.7	449.9
Louisiana .....	502.8	503.5	502.3	506.5	507.1	509.5	513.7	512.1	514.0	514.4	516.4	519.2	517.4
Maine .....	161.8	164.1	164.4	165.5	165.8	166.9	169.0	169.1	170.4	171.4	171.9	172.5	172.2
Maryland .....	775.2	777.5	778.8	776.8	779.1	783.3	790.4	792.7	794.1	798.5	800.4	802.9	804.2
Massachusetts .....	1,119.0	1,122.8	1,126.3	1,127.9	1,130.1	1,133.9	1,134.5	1,137.1	1,138.4	1,141.7	1,143.5	1,147.2	1,146.3
Michigan .....	1,233.5	1,234.9	1,235.1	1,232.0	1,237.2	1,241.4	1,243.1	1,247.8	1,250.5	1,254.9	1,257.4	1,259.6	1,259.0
Minnesota .....	714.9	718.1	720.2	723.7	726.7	729.5	729.9	731.4	731.7	732.9	735.0	736.3	735.2
Mississippi .....	261.5	261.6	261.1	263.7	263.5	263.8	263.8	264.0	262.5	261.1	261.9	262.2	262.3
Missouri .....	746.7	752.1	749.8	754.7	758.7	758.6	759.7	759.5	758.5	763.4	767.0	766.9	766.6
Montana .....	104.9	105.4	105.4	106.1	106.8	106.7	107.6	108.1	108.3	108.2	108.5	108.6	109.1
Nebraska .....	232.4	232.8	232.9	236.3	236.3	237.2	240.6	239.5	240.7	241.6	243.2	239.3	239.3
Nevada .....	382.5	384.1	385.4	387.7	388.9	390.3	392.7	394.6	395.7	403.6	403.1	403.6	402.7
New Hampshire .....	170.0	171.0	171.6	171.7	171.8	171.8	172.1	172.6	172.9	173.2	173.7	173.4	176.4
New Jersey .....	1,198.0	1,202.9	1,204.5	1,213.3	1,218.3	1,220.2	1,227.6	1,231.2	1,233.2	1,234.7	1,238.1	1,242.3	1,236.3
New Mexico .....	198.8	199.7	200.3	201.9	202.3	202.6	203.3	204.6	205.6	206.6	207.7	207.9	206.5
New York .....	2,751.0	2,759.8	2,765.7	2,775.8	2,791.1	2,797.4	2,806.8	2,814.0	2,817.5	2,828.1	2,837.2	2,848.5	2,848.7
North Carolina .....	908.7	911.8	913.6	919.1	926.1	931.5	939.9	938.6	944.6	946.9	951.1	956.7	967.9
North Dakota .....	89.1	89.2	89.5	89.7	89.8	89.7	89.6	89.5	89.7	89.9	89.9	90.6	90.5
Ohio .....	1,497.5	1,500.1	1,502.4	1,506.4	1,510.3	1,515.2	1,512.3	1,513.7	1,516.1	1,521.6	1,521.9	1,522.5	1,514.5
Oklahoma .....	396.9	396.2	398.3	401.6	404.7	405.0	406.0	406.9	407.2	407.4	408.1	409.1	410.9
Oregon .....	409.4	410.6	412.7	412.8	415.0	414.9	416.7	420.2	421.3	423.2	424.8	425.9	425.1
Pennsylvania .....	1,750.4	1,755.0	1,760.7	1,765.4	1,773.3	1,777.2	1,782.3	1,784.4	1,784.5	1,784.4	1,785.2	1,789.9	1,787.3
Rhode Island .....	155.2	156.1	156.1	157.1	157.5	156.7	157.7	157.7	158.3	158.4	158.0	157.9	156.4
South Carolina .....	410.9	411.8	413.6	416.2	418.7	419.4	420.5	422.2	423.4	424.3	426.0	427.2	431.4
South Dakota .....	93.7	93.8	93.9	94.2	94.4	94.2	94.4	94.5	94.3	95.8	95.6	95.9	94.8
Tennessee .....	695.8	696.9	698.8	698.6	701.4	706.2	707.7	708.3	707.1	711.9	714.2	715.9	713.5
Texas .....	2,458.5	2,471.7	2,481.1	2,488.6	2,500.4	2,510.1	2,523.9	2,532.8	2,540.6	2,549.7	2,559.7	2,569.3	2,577.0
Utah .....	274.4	276.1	276.5	278.3	279.3	280.2	280.4	281.4	281.8	282.6	284.2	285.2	286.5
Vermont .....	85.2	85.4	86.0	86.0	86.5	86.5	86.6	86.9	86.7	85.9	86.6	87.2	87.6
Virginia .....	997.0	1,003.2	1,006.1	1,011.9	1,019.9	1,024.6	1,023.1	1,028.7	1,033.3	1,036.7	1,042.1	1,045.7	1,045.5
Washington .....	698.0	698.9	701.2	703.0	707.2	708.5	711.3	714.7	715.3	718.2	720.7	723.2	720.1
West Virginia .....	203.4	204.3	204.8	205.1	205.8	206.8	208.5	208.5	208.9	209.8	210.2	211.1	211.2
Wisconsin .....	698.1	699.7	701.1	705.3	707.1	708.3	709.7	711.2	711.0	711.3	712.5	713.2	713.3
Wyoming .....	50.0	50.1	50.2	50.7	50.6	50.3	50.5	50.5	50.4	50.7	51.0	51.2	51.3

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
Government													
Alabama .....	347.9	347.5	347.6	346.6	346.5	347.2	346.5	346.7	347.8	348.0	348.6	349.4	347.0
Alaska .....	73.2	73.5	73.4	73.4	73.5	73.5	73.7	73.3	73.8	73.3	73.3	73.5	73.5
Arizona .....	340.9	338.6	340.1	337.3	339.6	337.4	337.6	335.8	337.1	336.8	342.7	339.6	341.8
Arkansas .....	184.4	184.5	184.5	184.5	185.0	185.5	186.7	186.3	186.1	187.0	187.9	186.2	186.4
California .....	2,143.0	2,142.2	2,149.3	2,151.8	2,155.4	2,159.4	2,155.6	2,166.8	2,173.6	2,184.7	2,192.9	2,199.0	2,193.2
Colorado .....	319.8	319.3	319.6	319.8	320.8	321.4	323.4	321.7	322.8	322.8	323.3	323.2	324.6
Connecticut .....	225.3	225.3	226.2	226.2	226.4	226.8	227.8	228.4	230.5	229.1	228.6	229.7	229.6
Delaware .....	53.8	53.8	53.9	53.9	54.2	54.0	54.4	54.1	54.0	54.0	54.1	54.4	54.8
District of Columbia .....	228.8	228.0	227.3	227.2	227.0	226.3	220.8	228.2	226.7	225.7	225.9	225.0	226.1
Florida .....	954.0	951.0	952.9	952.9	954.8	954.9	957.0	955.7	959.9	960.5	964.0	964.6	963.2
Georgia .....	583.6	584.2	583.2	583.6	583.5	583.5	584.9	589.0	596.9	588.1	588.2	589.7	591.4
Hawaii .....	111.4	111.0	111.4	111.5	111.2	111.2	111.7	112.6	117.8	112.6	112.1	111.9	110.8
Idaho .....	101.9	102.5	103.2	102.2	102.2	102.8	102.5	102.8	102.6	103.5	103.6	104.3	103.6
Illinois .....	811.2	810.2	811.5	809.7	811.3	814.0	822.4	824.2	822.3	816.6	816.5	812.8	813.7
Indiana .....	397.7	396.7	396.5	398.3	399.1	398.9	398.4	398.2	405.8	403.0	403.8	406.0	402.3
Iowa .....	235.7	235.9	235.1	235.1	235.3	234.9	235.9	235.0	237.5	236.9	236.3	238.2	237.9
Kansas .....	237.6	238.1	238.5	239.5	241.3	241.3	240.4	242.3	240.8	243.8	244.4	242.4	242.6
Kentucky .....	292.6	292.4	292.5	293.0	292.1	293.9	294.3	296.5	295.6	294.9	294.8	294.7	295.0
Louisiana .....	366.0	366.2	366.7	366.7	367.1	366.5	367.0	366.5	368.4	368.3	368.0	368.1	367.0
Maine .....	92.7	94.8	93.9	94.1	93.5	94.6	93.7	93.5	93.3	93.1	92.9	93.6	93.3
Maryland .....	431.7	430.5	430.4	430.3	432.0	431.5	435.3	437.0	440.5	440.1	440.9	439.3	440.0
Massachusetts .....	407.3	408.3	408.8	409.7	410.7	410.7	411.5	413.4	413.7	414.5	414.8	416.6	415.8
Michigan .....	650.8	650.9	649.6	656.8	657.9	663.5	662.0	659.7	662.5	660.0	660.5	660.0	658.3
Minnesota .....	380.9	381.4	381.5	381.8	382.2	382.4	377.0	379.0	381.1	382.4	382.9	384.8	387.0
Mississippi .....	220.8	221.0	220.5	221.5	221.9	222.1	229.3	224.0	224.1	225.1	225.2	225.5	225.6
Missouri .....	412.8	416.0	414.8	415.0	418.2	422.2	414.0	414.4	418.1	417.9	418.8	420.9	418.6
Montana .....	78.1	77.7	78.1	78.2	78.3	78.2	79.3	78.9	79.2	79.3	79.5	79.4	79.4
Nebraska .....	151.6	152.3	152.2	151.7	151.3	151.3	152.2	149.7	150.5	150.3	149.8	150.4	149.5
Nevada .....	108.9	109.6	109.6	110.5	110.0	111.2	112.0	113.1	113.5	113.2	113.5	113.9	114.0
New Hampshire .....	79.3	79.2	79.5	79.4	79.7	79.7	79.3	78.9	79.3	79.6	79.5	78.9	79.4
New Jersey .....	574.0	572.5	572.6	571.1	570.6	568.6	568.0	568.0	572.4	570.3	569.9	570.8	570.1
New Mexico .....	178.9	179.2	179.9	178.3	177.9	177.6	178.4	178.7	177.2	177.4	177.5	177.5	179.3
New York .....	1,412.0	1,419.1	1,422.1	1,421.7	1,423.9	1,421.9	1,402.1	1,404.0	1,414.9	1,417.4	1,417.0	1,420.3	1,411.3
North Carolina .....	582.2	585.7	586.0	588.4	587.2	581.9	600.5	620.2	601.8	601.5	600.7	601.2	596.8
North Dakota .....	72.1	71.9	71.9	71.9	71.9	68.5	69.0	68.3	70.1	70.0	70.4	70.6	71.6
Ohio .....	760.9	758.6	759.5	760.3	762.2	762.6	765.2	765.6	766.1	765.0	765.8	766.9	760.7
Oklahoma .....	276.2	276.7	276.8	277.0	277.5	277.6	278.0	279.4	278.8	279.5	278.9	279.3	277.5
Oregon .....	252.0	251.9	252.1	252.0	254.3	255.0	255.3	256.0	257.0	257.6	260.9	259.5	259.1
Pennsylvania .....	710.2	708.6	707.1	701.8	704.0	690.4	694.9	695.7	706.4	701.9	704.3	707.0	706.6
Rhode Island .....	63.3	63.1	63.0	62.4	62.8	62.9	63.7	63.1	63.9	63.5	63.6	63.7	63.9
South Carolina .....	306.1	306.8	307.2	306.7	307.8	310.4	309.0	311.3	311.2	311.7	310.1	310.3	312.8
South Dakota .....	70.4	70.6	70.7	70.6	70.6	70.9	71.5	71.1	71.4	71.3	71.2	71.0	71.0
Tennessee .....	380.6	380.8	381.3	382.0	382.5	384.0	384.5	395.4	383.6	383.9	384.6	384.1	382.3
Texas .....	1,496.7	1,499.4	1,500.8	1,500.0	1,502.7	1,503.2	1,506.5	1,510.9	1,519.0	1,525.8	1,529.9	1,529.9	1,536.2
Utah .....	173.5	174.9	175.5	174.9	175.8	176.4	177.4	177.5	180.9	177.9	179.1	179.9	178.1
Vermont .....	45.8	46.0	46.0	45.9	45.8	45.9	45.7	46.2	46.4	46.5	46.4	46.5	46.9
Virginia .....	597.8	598.9	599.6	598.3	598.9	601.5	602.5	603.0	604.2	603.5	602.5	605.0	603.1
Washington .....	463.1	464.5	462.3	464.1	463.9	465.8	469.0	469.5	465.2	466.0	466.2	466.8	469.5
West Virginia .....	138.2	139.1	138.9	138.7	151.1	138.8	138.3	140.7	141.2	140.0	139.7	140.0	141.4
Wisconsin .....	389.3	390.9	389.8	391.1	393.0	392.6	393.7	394.6	393.1	393.5	395.5	396.3	399.7
Wyoming .....	58.2	58.2	58.2	58.4	58.5	57.9	59.4	58.7	58.4	58.6	58.3	58.2	58.0

<sup>1</sup> Includes mining, not shown separately.

<sup>2</sup> Mining is combined with construction.

<sup>3</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.

P = preliminary.

NOTE All data have been adjusted to March 1998 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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>
<b>Total private</b> .....	34.7	34.6	34.5	34.7	34.6	34.6	34.6	34.4	34.6	34.5	34.6	34.5	34.7
<b>Goods-producing</b> .....	41.4	41.0	40.8	41.1	41.0	41.1	41.1	40.8	41.1	41.0	41.2	41.1	41.0
<b>Mining</b> .....	44.4	43.8	44.1	44.6	43.8	44.8	43.8	43.2	43.8	43.5	43.4	42.5	43.1
<b>Construction</b> .....	39.2	38.5	38.7	38.6	38.4	39.2	39.1	38.4	39.1	38.8	39.5	39.7	39.3
<b>Manufacturing</b> .....	42.0	41.8	41.4	41.8	41.8	41.7	41.7	41.6	41.7	41.7	41.7	41.6	41.6
<i>Overtime hours</i> .....	4.8	4.8	4.5	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.6	4.5
<b>Durable goods</b> .....	42.8	42.5	41.9	42.4	42.3	42.2	42.3	42.2	42.3	42.3	42.3	42.1	42.2
<i>Overtime hours</i> .....	5.1	5.0	4.6	4.8	4.8	4.8	4.8	4.7	4.6	4.6	4.6	4.7	4.6
Lumber and wood products .....	41.1	41.2	41.2	41.2	41.3	41.2	41.2	40.6	41.1	41.2	41.6	41.7	40.9
Furniture and fixtures .....	41.0	40.7	40.7	40.7	41.0	40.7	40.7	40.1	40.4	40.1	40.2	40.6	40.4
Stone, clay, and glass products .....	43.6	43.2	43.3	43.5	43.2	43.5	43.6	43.3	43.4	43.5	43.8	44.0	43.4
Primary metal industries .....	44.8	44.6	43.9	44.5	44.4	43.6	44.1	43.7	43.7	43.9	43.7	43.7	43.6
Blast furnaces and basic steel products .....	45.4	45.3	44.9	45.6	45.1	43.8	44.5	44.2	43.9	43.7	43.2	43.9	43.7
Fabricated metal products .....	42.7	42.4	41.8	42.6	42.5	42.4	42.3	42.3	42.3	42.1	42.2	41.9	42.1
Industrial machinery and equipment .....	43.4	43.3	42.6	43.0	43.2	43.0	43.1	42.7	42.7	42.4	42.1	42.1	42.0
Electronic and other electrical equipment .....	41.9	41.4	41.1	41.4	41.4	41.3	41.7	41.5	41.5	41.4	41.1	41.2	41.4
Transportation equipment .....	43.8	43.4	42.1	43.3	42.7	42.6	42.6	43.7	43.7	44.1	44.6	43.2	44.0
Motor vehicles and equipment .....	43.8	43.5	42.0	43.3	42.4	41.7	42.3	44.3	43.8	44.7	45.2	43.9	45.1
Instruments and related products .....	42.0	41.5	41.3	41.4	41.3	41.3	41.4	41.0	41.1	41.0	41.0	41.1	41.4
Miscellaneous manufacturing .....	40.4	40.5	40.1	40.0	40.0	40.0	40.1	39.6	39.7	39.3	39.4	39.5	39.7
<b>Nondurable goods</b> .....	40.9	40.8	40.7	41.0	40.9	41.0	40.9	40.8	40.9	40.8	40.9	40.8	40.9
<i>Overtime hours</i> .....	4.4	4.4	4.2	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.3	4.4	4.4
Food and kindred products .....	41.5	41.5	41.3	41.8	41.7	42.0	41.5	41.7	41.5	41.7	42.0	42.0	41.8
Tobacco products .....	38.5	37.7	38.2	39.3	39.0	40.6	39.6	37.7	38.5	38.3	36.3	38.1	38.1
Textile mill products .....	41.5	41.2	41.0	41.3	41.1	41.0	41.0	40.4	41.1	40.7	40.9	41.0	40.8
Apparel and other textile products .....	37.4	37.2	37.7	37.4	37.4	37.4	37.5	37.3	37.3	37.3	37.3	36.9	37.6
Paper and allied products .....	43.4	43.4	43.0	43.5	43.6	43.5	43.3	43.6	43.5	43.5	43.4	43.5	43.6
Printing and publishing .....	38.5	38.4	38.2	38.4	38.2	38.4	38.5	38.1	38.2	38.2	38.1	38.3	37.9
Chemicals and allied products .....	43.4	43.4	43.1	43.1	43.2	43.0	43.3	43.2	43.3	43.0	42.6	42.9	42.8
Petroleum and coal products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products .....	41.8	41.5	41.7	42.1	42.0	42.1	41.6	41.7	41.8	41.6	41.7	41.3	41.6
Leather and leather products .....	38.8	37.9	37.3	37.3	37.6	37.0	38.1	37.4	37.4	37.6	37.5	37.2	38.2
<b>Service-producing</b> .....	33.0	32.8	32.9	33.0	32.9	32.9	32.9	32.8	32.9	32.9	32.9	32.9	33.0
<b>Transportation and public utilities</b> .....	39.9	39.8	39.6	39.8	39.5	39.6	39.3	39.3	39.3	39.3	39.1	39.4	39.2
<b>Wholesale trade</b> .....	38.5	38.3	38.3	38.5	38.2	38.3	38.4	38.2	38.3	38.5	38.4	38.4	38.5
<b>Retail trade</b> .....	29.0	28.9	29.0	29.1	29.0	29.1	29.0	29.0	29.1	29.0	29.0	29.0	29.3
<b>Finance, insurance, and real estate</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Services</b> .....	32.7	32.6	32.6	32.7	32.7	32.7	32.7	32.5	32.7	32.6	32.7	32.6	32.8

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

<sup>2</sup> 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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>
<b>Total private</b> .....	144.4	143.8	144.0	144.9	144.8	145.2	145.3	144.9	145.8	145.7	146.4	146.4	147.3
<b>Goods-producing</b> .....	116.4	115.1	114.9	115.3	114.9	114.2	114.7	114.1	114.6	114.1	115.3	114.9	115.2
<b>Mining</b> .....	57.0	55.6	55.4	56.0	54.7	55.5	54.0	53.1	53.5	52.6	52.4	50.1	49.5
<b>Construction</b> .....	162.4	158.7	161.5	160.5	160.5	164.6	164.3	160.9	164.8	164.4	171.1	171.2	173.9
<b>Manufacturing</b> .....	110.3	109.7	108.7	109.4	109.0	107.2	108.0	108.0	107.8	107.3	107.4	107.0	106.7
<b>Durable goods</b> .....	114.5	113.7	112.2	113.1	112.7	109.9	111.8	111.7	111.6	110.9	111.0	110.3	110.2
Lumber and wood products .....	143.4	143.6	143.8	143.8	143.7	144.0	143.8	141.9	143.9	144.6	146.9	148.6	146.0
Furniture and fixtures .....	133.1	132.7	133.7	134.0	134.4	134.3	133.7	131.4	132.4	131.4	133.0	134.0	133.7
Stone, clay, and glass products .....	116.2	113.9	114.1	114.7	114.4	115.2	116.0	115.4	115.7	116.8	118.4	118.1	117.0
Primary metal industries .....	95.8	95.5	93.7	94.6	94.4	91.1	93.3	92.3	91.6	90.9	90.4	89.8	89.6
Blast furnaces and basic steel products .....	74.6	74.4	73.4	74.5	73.7	71.2	71.9	71.0	70.1	68.6	68.2	68.6	68.3
Fabricated metal products .....	120.1	119.1	117.5	119.2	118.4	117.0	117.5	117.7	117.5	116.6	116.8	116.2	116.1
Industrial machinery and equipment .....	111.3	111.1	109.1	110.1	110.9	109.8	110.0	108.7	108.4	106.9	105.7	104.7	103.9
Electronic and other electrical equipment .....	112.8	111.3	110.1	110.7	110.3	108.7	109.1	108.9	108.0	106.6	105.5	105.4	106.0
Transportation equipment .....	130.1	128.7	124.6	127.0	124.7	112.2	122.8	126.5	127.1	126.9	128.0	124.6	126.1
Motor vehicles and equipment .....	166.6	164.6	158.9	161.8	157.2	129.0	153.5	161.9	161.1	162.2	164.1	161.2	164.6
Instruments and related products .....	77.6	76.8	76.6	76.6	76.1	76.1	75.9	75.2	75.0	74.5	74.2	74.9	75.4
Miscellaneous manufacturing .....	103.8	104.1	103.4	102.0	101.6	102.0	101.5	100.3	98.6	96.9	97.5	97.0	97.5
<b>Nondurable goods</b> .....	104.6	104.3	104.0	104.4	104.0	103.5	102.8	103.0	102.6	102.3	102.4	102.4	102.0
Food and kindred products .....	118.5	118.5	118.3	119.9	119.3	118.9	116.8	118.9	118.2	119.5	121.0	121.5	120.7
Tobacco products .....	61.0	59.7	62.5	62.3	59.9	60.3	58.8	57.9	59.1	58.8	53.9	58.5	56.6
Textile mill products .....	88.6	87.8	87.4	87.7	86.9	85.7	85.0	84.3	85.2	83.4	83.4	83.0	81.9
Apparel and other textile products .....	70.8	70.2	70.0	68.8	68.5	68.3	67.5	67.0	65.2	64.3	64.2	63.0	62.8
Paper and allied products .....	111.1	111.1	109.9	110.7	110.5	109.4	109.1	109.9	109.2	108.6	108.1	108.4	108.4
Printing and publishing .....	126.0	125.3	124.7	125.6	125.0	125.4	125.4	124.1	124.5	123.9	123.0	124.0	122.3
Chemicals and allied products .....	103.2	103.4	102.7	102.8	103.1	102.6	102.8	102.7	102.8	102.1	101.3	102.2	102.1
Petroleum and coal products .....	71.9	73.6	73.1	73.9	73.1	75.5	73.8	73.9	73.6	74.1	77.5	72.4	75.3
Rubber and misc. plastics products .....	147.9	147.2	148.1	148.9	148.4	147.0	146.6	147.3	147.1	146.8	147.5	146.8	147.9
Leather and leather products .....	38.7	37.3	36.7	36.1	35.8	34.7	35.1	33.9	33.9	34.1	33.4	32.6	32.3
<b>Service-producing</b> .....	157.0	156.7	157.0	158.2	158.2	159.1	159.0	158.7	159.7	159.9	160.3	160.5	161.8
<b>Transportation and public utilities</b> .....	131.1	130.9	130.2	131.5	130.5	131.4	131.2	131.2	131.6	131.8	131.6	133.2	132.6
<b>Wholesale trade</b> .....	128.2	127.6	127.9	128.8	127.9	128.6	129.0	128.7	129.1	130.0	129.9	130.2	130.5
<b>Retail trade</b> .....	139.9	139.3	139.8	141.1	140.7	141.9	141.3	141.5	142.0	141.9	142.1	142.4	144.7
<b>Finance, insurance, and real estate</b> .....	133.4	133.6	134.2	134.9	134.8	136.1	136.2	135.6	136.6	137.4	137.3	137.4	138.0
<b>Services</b> .....	192.0	191.9	192.3	193.7	194.5	195.2	195.2	194.6	196.4	196.3	197.4	197.0	198.6

<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>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		
	Dec. 1998 <sup>r</sup>	Jan. 1999 <sup>r</sup>	Feb. 1999 <sup>p</sup>	Feb. 1998 to Feb. 1999 <sup>p</sup>	Dec. 1998 to Jan. 1999 <sup>r</sup>	Jan. 1999 To Feb. 1999 <sup>p</sup>
Total .....	233,657	233,297	234,561	2.2	-0.2	0.5
Private sector .....	195,528	195,744	196,600	2.2	.1	.4
Mining .....	1,255	1,220	1,201	-11.6	-2.8	-1.6
Construction .....	12,638	12,731	12,750	6.0	.7	.1
Manufacturing .....	40,265	40,134	40,064	-2.4	-.3	-.2
Durable goods .....	24,146	24,042	24,017	-2.7	-.4	-.1
Nondurable goods .....	16,119	16,092	16,048	-1.8	-.2	-.3
Transportation and public utilities .....	13,546	13,636	13,619	1.0	.7	-.1
Wholesale trade .....	13,742	13,776	13,830	2.1	.2	.4
Retail trade .....	34,250	34,304	34,846	3.7	.2	1.6
Finance, insurance, and real estate .....	14,099	14,112	14,178	3.5	.1	.5
Services .....	65,732	65,831	66,112	4.0	.2	.4
Government .....	38,129	37,553	37,961	2.3	-1.5	1.1

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>	
	Average hourly earnings													
<b>Total private</b> (in current dollars) .....	\$12.59	\$12.63	\$12.70	\$12.73	\$12.76	\$12.79	\$12.85	\$12.87	\$12.90	\$12.94	\$12.98	\$13.03	\$13.04	
<b>Goods-producing</b> .....	14.21	14.25	14.25	14.27	14.28	14.31	14.39	14.39	14.43	14.46	14.50	14.52	14.55	
<b>Mining</b> .....	16.76	16.82	16.72	16.77	16.73	16.88	17.10	17.15	17.20	17.37	17.26	17.16	17.26	
<b>Construction</b> .....	16.34	16.40	16.45	16.46	16.51	16.64	16.67	16.57	16.69	16.75	16.82	16.73	16.78	
<b>Manufacturing</b> .....	13.42	13.46	13.44	13.47	13.47	13.42	13.52	13.57	13.57	13.58	13.58	13.64	13.66	
<b>Excluding overtime<sup>2</sup></b> .....	12.69	12.73	12.76	12.78	12.76	12.71	12.81	12.90	12.88	12.89	12.89	12.93	12.96	
<b>Service-producing</b> .....	12.06	12.10	12.19	12.23	12.26	12.30	12.35	12.38	12.41	12.45	12.49	12.55	12.56	
<b>Transportation and public utilities</b> .....	15.25	15.27	15.32	15.31	15.29	15.33	15.35	15.42	15.42	15.45	15.53	15.51	15.53	
<b>Wholesale trade</b> .....	13.81	13.84	13.88	14.00	13.98	14.07	14.16	14.14	14.19	14.23	14.26	14.34	14.30	
<b>Retail trade</b> .....	8.59	8.64	8.70	8.72	8.73	8.78	8.83	8.86	8.85	8.85	8.91	8.96	8.96	
<b>Finance, insurance, and real estate</b> .....	13.83	13.85	14.00	14.03	14.07	14.10	14.16	14.17	14.24	14.35	14.43	14.47	14.47	
<b>Services</b> .....	12.60	12.65	12.76	12.81	12.87	12.90	12.95	12.99	13.03	13.06	13.09	13.18	13.22	
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	7.69	7.71	7.73	7.74	7.75	7.76	7.78	7.79	7.79	7.80	7.81	7.83	(4)	
<b>Goods-producing</b> .....	8.68	8.70	8.68	8.67	8.68	8.68	8.72	8.71	8.72	8.72	8.73	8.73	(4)	
<b>Service-producing</b> .....	7.36	7.39	7.42	7.43	7.45	7.46	7.48	7.49	7.50	7.51	7.52	7.54	(4)	
	Average weekly earnings													
<b>Total private</b> (in current dollars) .....	436.87	437.00	438.15	441.73	441.50	442.53	444.61	442.73	446.34	446.43	449.11	449.54	452.49	
<b>Goods-producing</b> .....	588.29	584.25	581.40	586.50	585.48	588.14	591.43	587.11	593.07	592.86	597.40	596.77	596.55	
<b>Mining</b> .....	744.14	736.72	737.35	747.94	732.77	756.22	748.98	740.88	753.36	755.60	749.08	729.30	743.91	
<b>Construction</b> .....	640.53	631.40	636.62	635.36	633.98	652.29	651.80	636.29	652.58	649.90	664.39	664.18	659.45	
<b>Manufacturing</b> .....	563.64	562.63	556.42	563.05	563.05	559.61	563.78	564.51	565.87	566.29	566.29	567.42	568.26	
<b>Service-producing</b> .....	397.98	396.88	401.05	403.59	403.35	404.67	406.32	406.06	408.29	409.61	410.92	412.90	414.48	
<b>Transportation and public utilities</b> .....	608.48	607.75	606.67	609.34	603.96	607.07	603.26	606.01	606.01	607.19	607.22	611.09	608.78	
<b>Wholesale trade</b> .....	531.69	530.07	531.60	539.00	534.04	538.88	543.74	540.15	543.48	547.86	547.58	550.66	550.55	
<b>Retail trade</b> .....	249.11	249.70	252.30	253.75	253.17	255.50	256.07	256.94	257.54	256.65	258.39	259.84	262.53	
<b>Finance, insurance, and real estate</b> .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
<b>Services</b> .....	412.02	412.39	415.98	418.89	420.85	421.83	423.47	422.18	426.08	425.76	428.04	429.67	433.62	
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	266.71	266.79	266.84	268.53	268.23	268.36	269.30	268.00	269.69	269.26	270.39	269.99	(4)	
<b>Goods-producing</b> .....	359.15	356.68	354.08	356.53	355.70	356.66	358.23	355.39	358.35	357.58	359.66	358.42	(4)	
<b>Service-producing</b> .....	242.97	242.30	244.24	245.34	245.05	245.40	246.11	245.80	246.70	247.05	247.39	247.99	(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. Data have been revised to reflect

updated seasonal adjustment factors used in the CPI-W.

<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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>
<b>Total</b> .....		125,832	122,577	127,936	125,176	126,028	-	-	-	-	-
<b>Total private</b> .....		105,970	102,963	107,547	105,202	105,651	86,716	84,064	88,046	85,772	86,168
<b>Mining</b> .....		575	580	556	535	526	436	438	421	403	393
Metal mining .....	10	50.7	51.1	49.9	49.8	49.4	38.5	38.9	37.9	37.5	-
Iron ores .....	101	8.4	8.4	8.2	8.2	-	6.9	6.9	6.8	6.8	-
Copper ores .....	102	15.1	15.9	14.6	14.6	-	11.3	11.9	10.9	10.8	-
Coal mining .....	12	91.0	93.4	89.8	89.5	88.5	74.6	76.4	73.9	74.0	-
Bituminous coal and lignite mining .....	122	85.3	87.8	84.0	84.0	-	69.8	71.6	68.9	69.2	-
Oil and gas extraction .....	13	325.9	336.2	309.4	297.3	288.4	241.5	249.1	228.9	217.9	-
Crude petroleum and natural gas .....	131	135.0	138.0	131.7	129.0	-	80.0	80.5	79.6	77.4	-
Oil and gas field services .....	138	186.1	193.3	173.2	163.8	-	157.4	164.5	145.1	136.6	-
Nonmetallic minerals, except fuels .....	14	107.7	98.8	106.5	98.5	99.5	81.7	73.6	80.5	73.5	-
Crushed and broken stone .....	142	41.4	38.0	41.6	38.3	-	32.2	29.0	32.3	29.3	-
Sand and gravel .....	144	36.2	31.7	35.3	32.0	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	11.5	11.5	11.4	11.4	-	-	-	-	-	-
<b>Construction</b> .....		5,965	5,407	6,043	5,673	5,716	4,617	4,111	4,664	4,295	4,334
General building contractors .....	15	1,398.7	1,300.3	1,424.2	1,374.5	1,376.8	979.8	900.5	992.9	944.2	-
Residential building construction .....	152	734.7	676.0	747.9	728.9	-	497.4	451.2	501.7	483.8	-
Operative builders .....	153	28.3	26.3	28.7	28.2	-	11.2	10.2	11.3	11.3	-
Nonresidential building construction .....	154	635.6	598.0	647.6	617.4	-	471.2	439.1	479.9	449.1	-
Heavy construction, except building .....	16	823.5	677.6	810.7	714.6	724.0	689.5	547.7	676.0	580.9	-
Highway and street construction .....	161	248.9	168.3	228.9	181.3	-	203.1	124.6	183.1	137.6	-
Heavy construction, except highway .....	162	574.7	509.3	581.8	533.3	-	486.4	423.1	492.9	443.3	-
Special trade contractors .....	17	3,742.5	3,429.5	3,807.9	3,583.7	3,615.0	2,947.3	2,662.6	2,995.3	2,770.1	-
Plumbing, heating, and air conditioning .....	171	818.4	789.8	837.5	822.2	-	602.9	579.7	618.6	603.6	-
Painting and paper hanging .....	172	205.0	181.9	200.7	182.7	-	169.7	147.2	164.6	146.7	-
Electrical work .....	173	724.3	697.8	749.1	735.6	-	572.8	552.3	592.0	577.2	-
Masonry, stonework, and plastering .....	174	504.2	454.3	521.5	486.5	-	435.7	387.9	450.7	415.1	-
Carpentry and floor work .....	175	270.9	252.8	281.6	273.6	-	205.5	191.5	213.8	204.7	-
Roofing, siding, and sheet metal work .....	176	247.5	213.1	252.2	218.3	-	195.8	162.8	199.3	165.7	-
<b>Manufacturing</b> .....		18,716	18,705	18,582	18,427	18,395	12,896	12,918	12,784	12,664	12,647
<b>Durable goods</b> .....		11,097	11,104	11,021	10,936	10,924	7,597	7,623	7,542	7,474	7,474
Lumber and wood products .....	24	803.7	784.6	812.2	805.8	805.5	661.0	645.9	667.2	660.2	660.8
Logging .....	241	78.7	77.8	79.4	77.7	-	62.2	61.8	62.9	61.4	-
Sawmills and planing mills .....	242	180.8	180.5	179.9	178.2	-	157.7	157.0	156.8	155.0	-
Sawmills and planing mills, general .....	2421	141.8	142.3	139.9	138.4	-	123.1	123.3	121.6	119.8	-
Hardwood dimension and flooring mills .....	2426	37.0	36.3	37.6	37.5	-	32.8	32.1	33.3	33.3	-
Millwork, plywood, and structural members .....	243	305.5	293.0	312.6	312.4	-	245.7	235.5	251.3	250.2	-
Millwork .....	2431	120.9	115.8	123.3	123.1	-	93.9	89.7	95.9	95.4	-
Wood kitchen cabinets .....	2434	85.8	81.9	88.9	89.3	-	69.4	66.2	71.9	72.1	-
Hardwood veneer and plywood .....	2435	28.9	28.6	29.2	29.4	-	24.6	24.2	24.8	24.9	-
Softwood veneer and plywood .....	2436	28.8	28.4	28.8	28.8	-	26.2	26.1	25.9	25.8	-
Wood containers .....	244	52.9	53.2	52.1	51.9	-	45.2	45.6	44.6	44.4	-
Wood buildings and mobile homes .....	245	96.1	91.5	98.2	96.4	-	76.9	73.3	78.3	76.8	-
Mobile homes .....	2451	73.4	69.4	75.6	74.4	-	61.5	58.3	63.1	62.2	-
Miscellaneous wood products .....	249	89.7	88.6	90.0	89.2	-	73.3	72.7	73.3	72.4	-
Furniture and fixtures .....	25	523.5	517.7	529.4	527.0	528.1	417.0	412.2	422.8	420.4	421.7
Household furniture .....	251	281.9	280.6	284.3	283.5	-	238.6	237.4	241.4	240.5	-
Wood household furniture .....	2511	125.9	124.5	127.5	126.9	-	109.2	107.9	110.8	110.3	-
Upholstered household furniture .....	2512	89.3	88.4	90.3	90.3	-	75.8	74.9	76.9	76.8	-
Metal household furniture .....	2514	19.7	21.4	19.5	19.6	-	16.4	18.0	16.3	16.4	-
Mattresses and bedsprings .....	2515	35.3	35.2	35.2	34.9	-	27.4	27.4	27.4	27.0	-

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Furniture and fixtures—Continued											
Office furniture .....	252	65.6	65.1	65.7	65.1	-	48.2	48.3	47.9	47.2	-
Public building and related furniture .....	253	45.3	44.4	46.8	46.8	-	35.4	34.7	36.5	36.7	-
Partitions and fixtures .....	254	89.5	87.7	90.7	89.9	-	67.0	65.5	68.5	67.7	-
Miscellaneous furniture and fixtures .....	259	41.1	39.9	41.9	41.7	-	27.8	26.3	28.5	28.3	-
Stone, clay, and glass products .....	32	562.8	541.1	565.3	547.0	551.3	440.0	421.3	442.3	425.4	428.9
Flat glass .....	321	16.6	17.3	16.6	16.5	-	13.2	13.6	13.2	13.0	-
Glass and glassware, pressed or blown .....	322	71.6	72.2	71.0	70.5	-	59.0	59.8	58.3	57.6	-
Glass containers .....	3221	25.6	25.3	25.6	25.2	-	22.7	22.6	22.6	22.0	-
Pressed and blown glass, nec .....	3229	46.0	46.9	45.4	45.3	-	36.3	37.2	35.7	35.6	-
Products of purchased glass .....	323	63.4	62.6	63.5	62.8	-	49.1	48.9	48.8	48.1	-
Cement, hydraulic .....	324	17.6	17.3	17.6	17.5	-	13.3	13.1	13.1	13.1	-
Structural clay products .....	325	33.0	32.5	32.9	32.6	-	25.5	25.3	25.2	25.1	-
Pottery and related products .....	326	38.1	38.8	38.2	37.9	-	29.9	30.4	30.1	30.0	-
Concrete, gypsum, and plaster products .....	327	223.4	203.1	225.9	211.2	-	172.8	154.7	175.6	161.9	-
Concrete block and brick .....	3271	18.3	17.3	18.5	17.6	-	11.7	11.0	11.9	11.3	-
Concrete products, nec .....	3272	75.6	70.4	77.2	75.6	-	58.2	53.6	59.8	58.2	-
Ready-mixed concrete .....	3273	111.5	97.6	112.1	100.0	-	88.6	75.9	89.6	78.0	-
Misc. nonmetallic mineral products .....	329	79.8	78.7	79.8	79.2	-	62.0	60.8	62.3	61.7	-
Abrasive products .....	3291	20.4	20.3	20.0	19.8	-	16.2	16.3	15.8	15.6	-
Asbestos products .....	3292	2.5	2.5	2.4	2.4	-	2.1	2.1	2.0	2.0	-
Mineral wool .....	3296	24.5	24.1	24.7	24.4	-	-	-	-	-	-
Primary metal industries .....	33	711.4	720.2	701.0	695.3	694.7	557.3	565.7	548.7	543.3	542.7
Blast furnaces and basic steel products .....	331	232.8	236.0	227.6	224.7	224.1	180.1	182.4	176.1	173.3	173.2
Blast furnaces and steel mills .....	3312	160.4	162.9	156.9	154.9	-	125.2	127.2	122.6	120.4	-
Steel pipe and tubes .....	3317	28.8	28.8	28.4	28.4	-	21.7	21.8	21.6	21.5	-
Iron and steel foundries .....	332	131.8	133.8	129.4	129.1	-	107.9	109.9	105.9	105.8	-
Gray and ductile iron foundries .....	3321	80.2	81.9	78.9	78.9	-	66.3	67.8	65.3	65.5	-
Malleable iron foundries .....	3322	4.6	4.7	4.5	4.5	-	3.5	3.7	3.4	3.4	-
Steel foundries, nec .....	3325	28.4	28.2	28.5	28.3	-	23.3	23.1	23.3	23.1	-
Primary nonferrous metals .....	333	38.7	39.5	37.5	37.6	-	30.1	30.6	29.1	29.1	-
Primary aluminum .....	3334	22.2	22.4	21.7	21.5	-	18.1	18.1	17.6	17.6	-
Nonferrous rolling and drawing .....	335	168.4	169.5	167.6	165.5	-	129.1	130.5	128.3	125.8	-
Copper rolling and drawing .....	3351	22.2	22.4	22.2	21.5	-	18.0	18.0	18.1	17.4	-
Aluminum sheet, plate, and foil .....	3353	20.8	21.4	20.0	19.9	-	15.5	16.1	14.8	14.8	-
Nonferrous wire drawing and insulating .....	3357	72.2	72.8	71.9	71.4	-	54.4	55.5	54.2	53.7	-
Nonferrous foundries (castings) .....	336	92.0	93.5	91.3	90.6	-	74.6	76.2	74.3	74.1	-
Aluminum foundries .....	3365	25.9	25.9	26.1	25.8	-	21.2	21.2	21.6	21.3	-
Fabricated metal products .....	34	1,488.9	1,493.5	1,485.4	1,480.6	1,474.8	1,122.1	1,127.3	1,119.0	1,115.1	1,109.2
Metal cans and shipping containers .....	341	36.7	37.2	36.1	35.4	-	31.1	31.5	30.6	30.1	-
Metal cans .....	3411	29.5	29.8	29.1	28.4	-	25.5	25.7	25.2	24.7	-
Cutlery, handtools, and hardware .....	342	125.6	126.5	124.3	124.8	-	96.6	97.7	95.7	95.7	-
Hand and edge tools, and blades and handsaws ...	3423,5	42.9	43.1	42.2	42.3	-	33.2	33.2	32.8	32.7	-
Hardware, nec .....	3429	69.7	70.4	69.1	69.4	-	53.5	54.6	52.9	53.1	-
Plumbing and heating, except electric .....	343	59.2	59.3	60.1	59.7	-	41.9	42.0	42.7	42.1	-
Plumbing fixture fittings and trim .....	3432	24.3	24.0	24.6	24.7	-	17.6	17.4	17.9	18.0	-
Heating equipment, except electric .....	3433	20.6	21.0	21.2	20.6	-	13.5	13.9	13.9	13.3	-
Fabricated structural metal products .....	344	456.8	453.6	459.7	455.4	-	334.3	332.0	337.0	333.8	-
Fabricated structural metal .....	3441	79.7	77.8	81.4	80.1	-	58.4	56.9	59.7	58.8	-
Metal doors, sash, and trim .....	3442	79.6	77.9	80.7	80.3	-	58.5	56.7	59.7	59.3	-
Fabricated plate work (boiler shops) .....	3443	100.0	102.4	98.5	98.1	-	72.1	74.3	70.8	70.5	-
Sheet metal work .....	3444	122.6	122.0	122.6	121.7	-	94.1	93.7	94.5	93.4	-
Architectural metal work .....	3446	31.8	30.9	33.1	33.0	-	23.4	22.7	24.3	24.4	-
Screw machine products, bolts, etc .....	345	107.5	107.6	107.0	107.2	-	84.3	84.5	83.7	83.8	-
Screw machine products .....	3451	56.2	56.5	56.0	55.9	-	45.7	45.9	45.5	45.4	-
Bolts, nuts, rivets, and washers .....	3452	51.3	51.1	51.0	51.3	-	38.5	38.6	38.2	38.4	-
Metal forgings and stampings .....	346	257.4	260.5	260.7	260.8	-	202.9	206.2	205.3	205.3	-
Iron and steel forgings .....	3462	33.4	33.2	33.0	33.1	-	25.5	25.5	24.9	24.8	-
Automotive stampings .....	3465	113.5	116.8	116.4	116.5	-	92.6	95.2	95.2	95.3	-
Metal stampings, nec .....	3469	97.1	97.3	97.7	97.6	-	74.6	75.5	74.8	74.7	-

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Metal services, nec .....	347	139.8	140.9	137.1	138.1	—	112.9	113.7	110.5	111.9	—
Plating and polishing .....	3471	85.3	86.6	83.9	84.6	—	69.6	70.8	68.2	69.1	—
Metal coating and allied services .....	3479	54.5	54.3	53.2	53.5	—	43.3	42.9	42.3	42.8	—
Ordnance and accessories, nec .....	348	40.4	41.3	39.3	39.2	—	23.1	23.2	23.1	22.9	—
Ammunition, except for small arms, nec .....	3483	21.5	22.1	20.9	20.7	—	9.9	10.1	9.8	9.8	—
Miscellaneous fabricated metal products .....	349	265.6	266.6	261.1	260.0	—	195.0	196.5	190.4	189.5	—
Valves and pipe fittings, nec .....	3494	25.3	25.9	24.7	24.6	—	18.5	19.3	17.7	17.7	—
Misc. fabricated wire products .....	3496	57.0	57.1	57.2	57.4	—	42.9	43.1	43.3	43.4	—
Industrial machinery and equipment .....	35	2,188.5	2,201.1	2,153.7	2,137.2	2,133.8	1,382.4	1,391.4	1,363.1	1,350.9	1,348.9
Engines and turbines .....	351	82.9	83.4	83.3	82.9	—	52.9	52.5	54.6	54.7	—
Turbines and turbine generator sets .....	3511	23.6	24.2	23.3	23.1	—	13.3	13.7	13.0	12.8	—
Internal combustion engines, nec .....	3519	59.3	59.2	60.0	59.8	—	39.6	38.8	41.6	41.9	—
Farm and garden machinery .....	352	102.3	106.8	96.1	94.8	—	73.7	78.3	68.6	67.2	—
Farm machinery and equipment .....	3523	77.5	79.5	71.6	69.3	—	55.6	57.8	49.9	47.6	—
Construction and related machinery .....	353	253.4	252.0	250.8	249.8	—	164.8	164.9	161.4	159.9	—
Construction machinery .....	3531	92.4	91.8	91.5	91.7	—	63.1	63.1	61.9	61.9	—
Mining machinery .....	3532	16.8	17.0	16.5	16.3	—	9.9	10.2	9.7	9.4	—
Oil and gas field machinery .....	3533	50.6	51.1	47.6	46.5	—	34.0	34.8	30.9	30.0	—
Conveyors and conveying equipment .....	3535	41.8	41.2	42.5	42.6	—	22.7	22.7	23.0	22.8	—
Industrial trucks and tractors .....	3537	32.3	31.7	33.0	33.0	—	22.5	21.9	23.1	22.9	—
Metalworking machinery .....	354	349.2	352.8	344.7	342.9	—	249.4	253.2	246.1	244.3	—
Machine tools, metal cutting types .....	3541	42.4	42.7	41.7	41.9	—	26.8	27.2	26.1	26.0	—
Machine tools, metal forming types .....	3542	18.0	18.3	17.7	17.7	—	11.3	11.7	11.1	11.0	—
Special dies, tools, jigs, and fixtures .....	3544	168.0	169.9	166.7	165.4	—	128.2	130.4	127.1	126.1	—
Machine tool accessories .....	3545	53.9	53.9	53.4	53.3	—	38.5	38.6	38.2	38.0	—
Power driven handtools .....	3546	20.4	20.5	19.9	19.7	—	14.5	14.4	14.5	14.3	—
Special industry machinery .....	355	182.1	185.4	176.3	175.7	—	98.9	100.9	97.0	96.7	—
Textile machinery .....	3552	15.1	15.1	14.8	14.8	—	9.8	9.9	9.5	9.5	—
Printing trades machinery .....	3555	23.3	23.1	23.0	22.7	—	13.1	13.1	12.8	12.8	—
Food products machinery .....	3556	24.8	25.2	24.6	24.7	—	14.8	14.8	14.8	14.8	—
General industrial machinery .....	356	265.6	266.4	263.6	261.8	—	169.4	171.0	167.8	166.4	—
Pumps and pumping equipment .....	3561	30.3	30.4	30.0	29.9	—	17.7	17.7	17.3	17.1	—
Ball and roller bearings .....	3562	40.9	40.8	40.6	40.4	—	31.6	31.8	31.3	31.1	—
Air and gas compressors .....	3563	26.7	26.5	26.5	26.1	—	15.1	15.3	14.7	14.3	—
Blowers and fans .....	3564	35.6	35.6	35.5	35.5	—	24.5	24.3	24.8	24.7	—
Speed changers, drives, and gears .....	3566	18.4	18.3	18.2	18.1	—	13.3	13.3	13.3	13.2	—
Power transmission equipment, nec .....	3568	22.1	22.2	22.4	22.3	—	15.5	15.5	15.9	15.7	—
Computer and office equipment .....	357	374.9	380.0	366.8	361.9	358.9	144.8	144.2	145.5	143.6	—
Electronic computers .....	3571	195.5	199.3	188.0	183.7	—	70.7	69.0	71.4	71.0	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	61.8	60.9	62.2	61.8	—	24.0	23.2	23.9	23.6	—
Refrigeration and service machinery .....	358	202.4	200.9	198.9	197.1	—	145.9	144.6	142.0	140.8	—
Refrigeration and heating equipment .....	3585	139.1	138.4	136.6	135.1	—	105.8	105.2	102.7	101.8	—
Misc. industrial and commercial machinery .....	359	375.8	373.4	373.2	370.3	—	282.5	281.8	280.1	277.3	—
Carburetors, pistons, rings, valves .....	3592	23.3	22.8	23.2	23.3	—	18.7	18.4	18.7	18.8	—
Scales, balances, and industrial machinery, nec .....	3596,9	303.9	302.7	301.5	298.6	—	233.4	233.5	230.9	228.2	—
Electronic and other electrical equipment .....	36	1,699.8	1,719.5	1,670.3	1,660.1	1,656.7	1,065.9	1,090.2	1,042.6	1,036.0	1,035.8
Electric distribution equipment .....	361	83.2	83.0	83.1	82.9	—	55.6	56.3	55.6	56.0	—
Transformers, except electronic .....	3612	39.0	39.6	38.8	38.8	—	25.9	27.1	25.7	26.3	—
Switchgear and switchboard apparatus .....	3613	44.1	43.4	44.3	44.1	—	29.7	29.2	29.9	29.7	—
Electrical industrial apparatus .....	362	152.7	154.5	150.7	149.5	—	106.0	107.7	103.7	103.4	—
Motors and generators .....	3621	75.7	76.7	74.8	74.4	—	58.4	59.4	57.2	57.1	—
Relays and industrial controls .....	3625	56.3	57.0	55.5	55.0	—	32.7	33.2	32.1	32.1	—
Household appliances .....	363	114.9	115.4	115.3	114.6	—	91.4	91.3	92.7	92.6	—
Household refrigerators and freezers .....	3632	23.7	23.2	23.6	23.4	—	18.9	18.1	19.1	19.4	—
Household laundry equipment .....	3633	17.6	17.5	18.1	18.3	—	14.2	13.9	15.3	15.6	—
Electric housewares and fans .....	3634	25.4	25.9	24.4	23.4	—	19.0	19.6	18.0	17.0	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment .....	364	182.0	182.2	179.6	177.9	—	129.8	130.4	129.1	128.0	—
Electric lamps .....	3641	21.1	22.0	20.3	20.3	—	16.5	17.1	16.2	16.3	—
Current-carrying wiring devices .....	3643	63.2	63.1	61.4	61.0	—	41.5	41.6	40.7	40.5	—
Noncurrent-carrying wiring devices .....	3644	18.2	17.8	18.8	18.6	—	13.6	13.3	14.1	14.0	—
Residential ing fixtures .....	3645	21.1	21.2	21.4	21.0	—	15.9	16.0	16.2	15.6	—
Household audio and video equipment .....	365	77.8	77.7	78.8	77.1	—	50.0	50.3	50.4	48.9	—
Household audio and video equipment .....	3651	52.5	52.5	53.1	51.9	—	30.9	31.1	31.0	30.2	—
Communications equipment .....	366	277.0	279.1	271.8	269.5	—	128.1	132.9	124.3	123.7	—
Telephone and telegraph apparatus .....	3661	125.5	123.4	123.4	121.7	—	58.0	59.7	54.3	53.0	—
Electronic components and accessories .....	367	666.8	680.0	646.9	645.4	645.9	401.0	414.4	383.8	381.6	—
Electron tubes .....	3671	22.3	22.7	21.7	21.4	—	16.3	16.8	15.9	15.8	—
Semiconductors and related devices .....	3674	287.1	292.9	274.8	274.2	—	128.9	135.2	119.6	117.7	—
Electronic components, nec .....	3679	146.9	149.8	144.1	143.3	—	100.6	103.4	97.3	96.4	—
Misc. electrical equipment and supplies .....	369	145.5	147.6	144.1	143.2	—	104.0	106.9	103.0	101.8	—
Storage batteries .....	3691	25.5	26.2	25.6	25.7	—	19.8	20.4	20.0	20.1	—
Engine electrical equipment .....	3694	65.0	65.6	64.3	63.7	—	49.9	51.4	49.1	48.9	—
Transportation equipment .....	37	1,873.5	1,874.2	1,883.5	1,869.6	1,864.9	1,251.8	1,270.5	1,250.6	1,240.8	1,240.3
Motor vehicles and equipment .....	371	988.3	995.0	1,000.9	992.0	990.3	758.6	779.5	763.2	757.1	757.6
Motor vehicles and car bodies .....	3711	349.7	348.1	357.2	349.0	—	254.1	261.7	256.4	251.8	—
Truck and bus bodies .....	3713	42.2	41.2	43.0	43.2	—	33.4	32.7	34.1	34.3	—
Motor vehicle parts and accessories .....	3714	537.5	548.7	540.6	538.8	—	423.1	438.8	423.9	421.6	—
Truck trailers .....	3715	38.1	36.6	39.1	39.5	—	30.7	29.6	31.4	31.5	—
Aircraft and parts .....	372	522.7	521.2	519.8	516.1	510.4	264.2	265.8	259.0	256.6	—
Aircraft .....	3721	272.8	273.7	270.4	267.2	—	115.4	117.2	113.3	111.7	—
Aircraft engines and engine parts .....	3724	103.5	102.2	103.6	103.4	—	54.1	54.6	51.9	51.3	—
Aircraft parts and equipment, nec .....	3728	146.4	145.3	145.8	145.5	—	94.6	94.0	93.8	93.6	—
Ship and boat building and repairing .....	373	161.7	157.7	162.9	162.3	—	122.9	120.0	123.4	123.5	—
Ship building and repairing .....	3731	100.3	99.7	100.2	100.0	—	71.9	71.3	71.3	71.5	—
Boat building and repairing .....	3732	61.4	58.0	62.7	62.3	—	51.0	48.3	52.1	52.0	—
Railroad equipment .....	374	34.2	33.5	34.8	34.7	—	25.5	25.4	25.0	24.1	—
Guided missiles, space vehicles, and parts .....	376	89.1	90.7	86.2	85.3	—	23.7	24.3	22.5	22.0	—
Guided missiles and space vehicles .....	3761	61.9	62.8	59.8	59.1	—	14.9	15.3	14.1	13.7	—
Miscellaneous transportation equipment .....	379	54.8	53.1	56.0	55.9	—	40.6	38.9	41.4	41.5	—
Travel trailers and campers .....	3792	23.4	22.2	23.8	23.6	—	19.7	18.7	20.1	20.0	—
Instruments and related products .....	38	859.2	868.7	842.0	840.9	839.7	429.8	431.1	423.6	426.1	426.8
Search and navigation equipment .....	381	159.7	161.2	155.8	156.8	—	43.6	43.1	43.2	43.7	—
Measuring and controlling devices .....	382	299.7	302.0	292.6	291.3	—	153.5	155.2	149.5	149.6	—
Environmental controls .....	3822	39.8	40.4	38.5	38.4	—	27.3	27.6	26.8	26.7	—
Process control instruments .....	3823	65.7	66.4	64.4	64.9	—	33.5	34.1	32.6	33.0	—
Instruments to measure electricity .....	3825	76.8	77.1	74.1	73.2	—	31.9	32.5	29.9	30.2	—
Medical instruments and supplies .....	384	278.6	279.4	276.4	277.3	—	165.2	163.7	165.1	167.4	—
Surgical and medical instruments .....	3841	108.8	108.9	107.9	108.0	—	70.2	69.0	69.6	70.2	—
Surgical appliances and supplies .....	3842	96.9	97.1	96.9	96.6	—	60.3	60.5	60.3	61.1	—
Ophthalmic goods .....	385	36.6	36.2	36.2	35.9	—	25.0	23.5	25.4	25.4	—
Photographic equipment and supplies .....	386	77.3	82.0	73.7	72.4	—	36.4	39.1	34.4	34.1	—
Watches, clocks, watchcases, and parts .....	387	7.4	7.9	7.3	7.2	—	6.1	6.5	6.0	5.9	—
Miscellaneous manufacturing industries .....	39	385.8	383.2	377.8	372.5	374.5	269.3	267.3	262.4	256.0	258.7
Jewelry, silverware, and plated ware .....	391	49.4	47.9	51.0	49.6	—	34.1	33.0	35.1	33.7	—
Jewelry, precious metal .....	3911	37.1	35.8	38.2	36.8	—	25.1	24.2	25.8	24.5	—
Musical instruments .....	393	16.7	16.5	16.9	16.8	—	13.2	13.0	13.6	13.5	—
Toys and sporting goods .....	394	101.8	104.7	95.7	93.5	—	68.9	71.1	64.2	62.3	—
Dolls, games, toys, and children's vehicles .....	3942,4	33.7	34.5	31.7	29.9	—	21.4	21.9	20.3	18.8	—
Sporting and athletic goods, nec .....	3949	68.2	70.2	64.0	63.6	—	47.6	49.2	43.9	43.5	—
Pens, pencils, office, and art supplies .....	395	30.4	30.2	29.9	29.7	—	21.1	20.7	20.8	20.5	—
Costume jewelry and notions .....	396	23.1	23.2	22.4	21.9	—	16.6	16.4	16.0	15.4	—
Costume jewelry .....	3961	13.1	13.0	12.6	12.2	—	9.6	9.3	9.0	8.4	—
Miscellaneous manufactures .....	399	164.3	160.7	161.9	161.0	—	115.4	113.1	112.7	110.6	—
Signs and advertising specialties .....	3993	73.0	70.6	73.9	74.0	—	47.7	46.0	48.1	47.6	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods</b> .....		7,619	7,601	7,561	7,491	7,471	5,299	5,295	5,242	5,190	5,173
Food and kindred products .....	20	1,704.6	1,664.6	1,705.2	1,686.1	1,681.0	1,266.4	1,231.6	1,267.0	1,251.5	1,247.8
Meat products .....	201	500.8	492.8	510.6	507.1	-	425.5	418.1	435.7	431.8	-
Meat packing plants .....	2011	154.1	152.3	155.7	155.4	-	128.5	127.3	130.5	129.5	-
Sausages and other prepared meats .....	2013	99.1	96.4	102.0	99.9	-	77.6	74.6	80.6	78.9	-
Poultry slaughtering and processing .....	2015	247.6	244.1	252.9	251.8	-	219.4	216.2	224.6	223.4	-
Dairy products .....	202	142.4	140.3	141.4	140.0	-	96.7	93.9	96.9	96.6	-
Cheese, natural and processed .....	2022	40.1	40.0	40.2	39.4	-	32.6	32.6	33.0	32.3	-
Fluid milk .....	2026	62.0	61.5	62.1	62.1	-	36.4	35.4	36.7	37.1	-
Preserved fruits and vegetables .....	203	230.0	205.7	216.2	210.5	-	193.3	170.0	179.3	173.3	-
Canned specialties .....	2032	18.7	18.8	18.7	18.7	-	14.8	14.9	14.8	14.6	-
Canned fruits and vegetables .....	2033	69.4	56.0	56.8	55.1	-	57.9	44.8	45.6	43.9	-
Frozen fruits and vegetables .....	2037	50.1	44.0	48.4	45.9	-	43.7	38.0	42.0	39.4	-
Grain mill products .....	204	124.6	124.8	125.5	125.4	-	88.3	89.9	89.1	89.4	-
Flour and other grain mill products .....	2041	19.1	19.0	19.3	19.2	-	11.7	11.8	11.8	12.0	-
Prepared feeds, nec .....	2048	39.8	39.4	39.8	39.9	-	25.8	26.0	26.1	26.0	-
Bakery products .....	205	208.6	208.6	213.3	209.5	-	140.6	139.6	144.5	140.9	-
Bread, cake, and related products .....	2051	151.0	150.6	152.5	149.6	-	91.8	90.8	92.4	89.7	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	57.5	58.0	60.8	59.9	-	48.8	48.8	52.1	51.2	-
Sugar and confectionery products .....	206	99.1	102.7	104.9	99.6	-	77.5	80.4	83.4	78.5	-
Raw cane sugar .....	2061	5.9	6.9	8.0	7.5	-	4.5	5.1	6.5	6.0	-
Cane sugar refining .....	2062	4.1	4.2	4.2	4.2	-	3.1	3.1	3.3	3.2	-
Beet sugar .....	2063	8.7	9.4	10.0	9.5	-	7.7	8.4	9.0	8.5	-
Candy and other confectionery products .....	2064	54.4	55.7	56.5	53.2	-	42.6	43.9	44.6	41.9	-
Fats and oils .....	207	34.5	33.1	35.5	36.1	-	23.6	23.2	24.3	25.0	-
Beverages .....	208	183.7	179.2	184.2	182.0	-	89.6	87.6	89.6	89.0	-
Malt beverages .....	2082	33.4	33.2	32.7	32.5	-	21.0	21.4	20.3	19.9	-
Bottled and canned soft drinks .....	2086	96.3	93.4	96.8	95.6	-	39.6	37.9	39.3	39.4	-
Misc. food and kindred products .....	209	181.1	177.4	173.6	175.9	-	131.3	128.9	124.2	127.0	-
Tobacco products .....	21	40.2	42.5	42.1	42.1	40.8	31.2	34.3	33.0	32.9	31.2
Cigarettes .....	211	26.6	26.9	25.7	25.7	-	19.9	20.9	19.0	18.8	-
Textile mill products .....	22	596.3	605.5	581.6	573.6	570.1	505.1	513.3	491.0	484.9	481.5
Broadwoven fabric mills, cotton .....	221	69.1	69.8	67.0	67.0	-	61.8	62.3	60.0	60.0	-
Broadwoven fabric mills, synthetics .....	222	64.3	65.8	63.6	62.5	-	54.6	55.8	54.1	53.2	-
Broadwoven fabric mills, wool .....	223	12.7	13.8	11.7	11.6	-	10.6	11.7	9.8	9.7	-
Narrow fabric mills .....	224	20.9	21.0	20.9	20.8	-	17.2	17.4	17.1	17.0	-
Knitting mills .....	225	161.0	165.3	152.7	148.8	-	137.0	140.6	128.5	125.6	-
Women's hosiery, except socks .....	2251	17.5	18.5	16.9	16.5	-	15.2	16.2	14.6	14.2	-
Hosiery, nec .....	2252	36.6	36.9	36.1	35.1	-	31.9	31.9	31.3	30.3	-
Knit outerwear mills .....	2253	48.3	49.2	44.3	43.8	-	41.3	42.2	37.3	37.8	-
Knit underwear mills .....	2254	12.6	13.4	11.9	10.0	-	11.2	11.7	10.5	8.8	-
Weft knit fabric mills .....	2257	24.5	25.4	22.4	22.4	-	20.6	21.2	18.5	18.4	-
Textile finishing, except wool .....	226	63.4	66.0	61.2	60.4	-	52.1	54.1	50.4	50.0	-
Finishing plants, cotton .....	2261	29.2	30.8	28.6	28.1	-	23.9	25.2	23.5	23.4	-
Finishing plants, synthetics .....	2262	19.8	20.7	18.8	18.6	-	16.1	16.7	15.3	15.1	-
Carpets and rugs .....	227	66.2	64.8	68.0	67.6	-	55.2	54.5	56.8	56.4	-
Yarn and thread mills .....	228	84.3	85.6	82.7	81.8	-	74.6	75.6	72.9	72.1	-
Yarn spinning mills .....	2281	61.4	62.4	60.3	59.5	-	54.8	55.5	53.6	52.8	-
Throwing and winding mills .....	2282	16.3	16.3	16.0	15.9	-	13.9	13.9	13.6	13.6	-
Miscellaneous textile goods .....	229	54.3	53.4	53.8	53.1	-	42.0	41.3	41.4	40.9	-
Apparel and other textile products .....	23	770.6	793.9	732.5	719.4	709.4	619.9	643.2	585.3	574.8	565.5
Men's and boys' suits and coats .....	231	28.0	29.2	26.9	26.3	-	22.6	23.7	21.5	20.9	-
Men's and boys' furnishings .....	232	186.3	194.6	173.8	171.3	-	157.0	164.6	145.3	143.7	-
Men's and boys' shirts .....	2321	37.6	39.2	33.5	32.7	-	32.5	34.0	28.6	28.0	-
Men's and boys' trousers and slacks .....	2325	64.8	66.5	61.5	60.4	-	56.0	57.4	52.7	52.2	-
Men's and boys' work clothing .....	2326	28.4	29.5	27.6	26.8	-	24.4	25.4	23.8	23.1	-
Women's and misses' outerwear .....	233	231.7	240.8	216.4	212.6	-	183.1	193.3	168.9	165.9	-
Women's and misses' blouses and shirts .....	2331	20.2	20.7	19.2	19.1	-	15.3	15.9	14.1	14.0	-
Women's, juniors', and misses' dresses .....	2335	37.3	37.8	34.9	34.4	-	28.7	29.1	26.6	26.2	-
Women's and misses' suits and coats .....	2337	23.7	24.5	22.1	21.2	-	18.1	19.1	16.8	16.3	-
Women's and misses' outerwear, nec .....	2339	150.5	157.8	140.2	137.9	-	120.9	129.2	111.4	109.4	-

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	31.8	33.5	30.2	29.8	-	25.0	26.4	24.2	23.9	-
Women's and children's underwear .....	2341	23.2	24.7	22.3	21.8	-	18.5	20.0	17.8	17.3	-
Brassieres, girdles, and allied garments .....	2342	8.6	8.8	7.9	8.0	-	6.5	6.4	6.4	6.6	-
Girls' and children's outerwear .....	236	26.2	28.3	23.5	22.5	-	21.4	23.2	19.2	18.3	-
Girls' and children's dresses and blouses .....	2361	10.1	11.6	9.4	9.1	-	8.7	10.0	8.3	8.2	-
Misc. apparel and accessories .....	238	32.3	32.8	30.3	30.4	-	25.7	26.0	23.9	24.0	-
Misc. fabricated textile products .....	239	217.5	217.7	214.9	211.2	-	171.9	172.6	169.3	166.4	-
Curtains and draperies .....	2391	18.4	18.9	17.1	16.9	-	14.2	14.5	13.3	13.2	-
House furnishings, nec .....	2392	56.7	56.2	57.5	56.3	-	47.8	47.5	48.4	47.3	-
Automotive and apparel trimmings .....	2396	60.5	60.4	60.4	59.0	-	46.8	47.1	46.8	45.1	-
Paper and allied products .....	26	681.5	685.6	674.2	669.7	668.4	519.0	523.4	512.2	509.1	507.6
Paper mills .....	262	155.0	157.0	152.6	150.9	-	121.3	122.0	119.3	118.1	-
Paperboard mills .....	263	49.9	50.3	49.2	49.0	-	38.5	39.0	37.7	37.7	-
Paperboard containers and boxes .....	265	218.0	219.8	216.7	214.5	-	169.0	170.6	168.1	165.8	-
Corrugated and solid fiber boxes .....	2653	132.4	133.9	131.5	131.2	-	99.0	100.4	98.4	97.9	-
Sanitary food containers .....	2656	16.8	16.8	16.6	16.3	-	15.1	15.0	15.0	14.6	-
Folding paperboard boxes .....	2657	46.7	46.8	46.4	45.3	-	37.8	38.0	37.5	36.6	-
Misc. converted paper products .....	267	246.8	246.5	244.2	243.8	-	180.9	182.3	177.9	178.3	-
Paper, coated and laminated, nec .....	2672	48.2	47.9	47.2	46.8	-	24.5	25.4	22.9	23.8	-
Bags: plastics, laminated, and coated .....	2673	40.1	40.4	39.7	39.3	-	31.4	31.9	30.9	30.5	-
Envelopes .....	2677	25.3	25.8	25.1	25.3	-	19.6	20.2	19.3	19.5	-
Printing and publishing .....	27	1,566.0	1,560.8	1,570.8	1,559.6	1,558.2	844.6	846.7	844.5	835.0	832.6
Newspapers .....	271	443.7	443.4	445.8	441.6	-	147.5	148.1	149.4	146.9	-
Periodicals .....	272	139.3	137.4	140.6	140.0	-	45.3	46.9	44.8	44.3	-
Books .....	273	128.1	129.1	127.0	126.2	-	63.1	67.2	59.1	58.2	-
Book publishing .....	2731	89.2	89.7	87.9	87.7	-	32.4	35.9	28.2	27.8	-
Book printing .....	2732	39.0	39.4	39.1	38.5	-	30.7	31.3	30.9	30.4	-
Miscellaneous publishing .....	274	91.4	89.9	92.5	92.5	-	43.3	42.4	45.1	45.1	-
Commercial printing .....	275	577.3	574.3	580.2	577.7	-	411.1	407.8	413.7	410.9	-
Commercial printing, lithographic .....	2752	376.7	374.4	379.7	379.3	-	268.2	265.3	271.2	270.2	-
Commercial printing, nec .....	2759	181.3	180.7	181.0	179.3	-	127.9	127.6	127.2	125.8	-
Manifold business forms .....	276	42.7	42.9	42.4	42.6	-	29.7	30.6	28.8	28.8	-
Blankbooks and bookbinding .....	278	65.8	66.4	64.8	64.2	-	50.0	50.4	49.2	48.8	-
Printing trade services .....	279	49.2	49.2	48.6	48.3	-	33.1	33.2	32.3	32.4	-
Chemicals and allied products .....	28	1,035.9	1,029.7	1,033.6	1,027.3	1,029.4	582.0	577.3	581.1	580.0	582.3
Industrial inorganic chemicals .....	281	115.4	115.9	112.6	112.5	-	62.1	60.0	63.7	63.9	-
Industrial inorganic chemicals, nec .....	2819	69.6	69.9	68.3	68.2	-	35.8	35.4	36.1	36.2	-
Plastics materials and synthetics .....	282	154.1	156.2	151.2	149.9	-	101.8	104.1	98.7	98.8	-
Plastics materials and resins .....	2821	80.5	80.5	79.6	79.5	-	49.1	49.8	48.0	48.5	-
Organic fibers, noncellulosic .....	2824	43.6	44.8	42.0	41.0	-	34.4	35.4	33.2	32.6	-
Drugs .....	283	273.9	268.4	278.3	279.0	-	124.8	122.3	126.1	127.0	-
Pharmaceutical preparations .....	2834	217.3	212.4	220.7	221.1	-	101.1	98.5	102.4	103.3	-
Soap, cleaners, and toilet goods .....	284	157.1	155.9	156.3	152.7	-	97.6	96.7	96.8	95.1	-
Soap and other detergents .....	2841	41.6	41.8	41.9	41.5	-	23.0	23.1	24.2	24.9	-
Polishing, sanitation, and finishing preparations .....	2842,3	41.2	40.5	41.9	42.0	-	23.3	22.9	23.5	23.5	-
Toilet preparations .....	2844	74.2	73.6	72.5	69.2	-	51.3	50.7	49.1	46.7	-
Paints and allied products .....	285	52.3	51.4	52.5	52.5	-	27.6	27.3	27.4	27.7	-
Industrial organic chemicals .....	286	137.4	136.9	136.8	136.0	-	79.8	79.2	79.6	79.1	-
Cyclic crudes and intermediates .....	2865	23.2	23.2	22.9	22.4	-	14.0	13.9	13.8	13.4	-
Industrial organic chemicals, nec .....	2869	111.7	111.2	111.4	111.1	-	64.0	63.5	64.0	63.9	-
Agricultural chemicals .....	287	51.2	51.0	51.2	50.9	-	31.0	30.9	30.6	30.7	-
Miscellaneous chemical products .....	289	94.5	94.0	94.7	93.8	-	57.4	56.8	58.2	57.7	-
Petroleum and coal products .....	29	135.5	131.6	133.2	128.9	129.5	89.3	84.8	87.8	84.6	85.2
Petroleum refining .....	291	92.8	93.0	91.7	90.4	-	60.4	59.8	60.0	59.4	-
Asphalt paving and roofing materials .....	295	28.2	24.1	26.9	23.9	-	21.0	17.2	19.7	17.2	-
Rubber and misc. plastics products .....	30	1,005.9	1,001.3	1,009.7	1,008.0	1,009.2	779.8	776.0	782.6	781.6	783.7
Tires and inner tubes .....	301	79.4	77.6	78.2	78.2	-	58.5	57.0	57.7	58.1	-
Rubber and plastics footwear .....	302	6.4	7.3	5.9	5.8	-	4.8	5.6	4.4	4.3	-
Hose, belting, gaskets, and packing .....	305	71.7	70.9	71.3	71.0	-	55.2	55.1	54.7	54.8	-
Rubber and plastics hose and belting .....	3052	29.5	28.8	29.9	29.9	-	23.1	22.8	23.5	23.7	-
Fabricated rubber products, nec .....	306	111.4	112.2	111.0	111.1	-	85.3	85.8	85.3	84.8	-
Miscellaneous plastics products, nec .....	308	737.0	733.3	743.3	741.9	-	576.0	572.5	580.5	579.6	-

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	82.0	85.5	77.8	76.3	75.1	61.7	64.7	57.9	55.9	55.1
Leather tanning and finishing .....	311	12.4	13.1	11.7	11.5	—	10.2	10.9	9.6	9.4	—
Footwear, except rubber .....	314	35.1	36.8	33.0	32.3	—	28.1	29.4	26.4	25.8	—
Men's footwear, except athletic .....	3143	19.3	20.7	18.3	18.1	—	14.9	16.2	14.1	13.9	—
Women's footwear, except athletic .....	3144	9.1	9.6	8.5	7.9	—	7.1	7.5	6.9	6.5	—
Luggage .....	316	9.9	10.3	9.1	8.8	—	6.8	7.3	6.3	5.7	—
Handbags and personal leather goods .....	317	9.0	9.1	8.5	8.6	—	5.2	5.3	4.8	4.4	—
<b>Transportation and public utilities .....</b>		<b>6,549</b>	<b>6,413</b>	<b>6,678</b>	<b>6,578</b>	<b>6,593</b>	<b>5,426</b>	<b>5,318</b>	<b>5,553</b>	<b>5,467</b>	<b>5,471</b>
Transportation .....		4,208	4,101	4,319	4,217	4,232	—	—	—	—	—
Railroad transportation .....	40	232.0	227.9	232.1	231.5	230.9	—	—	—	—	—
Class I railroads plus Amtrak <sup>2</sup> .....	4011	205.1	201.7	205.2	204.7	—	—	—	—	—	—
Local and interurban passenger transit .....	41	462.3	465.3	484.1	476.8	482.3	422.2	426.6	442.8	436.8	—
Local and suburban transportation .....	411	236.9	233.2	239.2	237.8	—	214.7	212.1	216.7	215.5	—
Taxicabs .....	412	31.3	31.4	31.5	31.8	—	—	—	—	—	—
Intercity and rural bus transportation .....	413	22.2	20.7	23.9	23.3	—	19.9	18.6	21.2	20.8	—
School buses .....	415	138.3	149.0	156.9	153.7	—	—	—	—	—	—
Trucking and warehousing .....	42	1,707.1	1,645.7	1,731.6	1,697.5	1,702.3	1,495.2	1,437.7	1,517.4	1,483.3	—
Trucking and courier services, except air .....	421	1,543.5	1,484.2	1,564.3	1,532.6	—	1,358.7	1,303.1	1,377.3	1,345.6	—
Public warehousing and storage .....	422	158.6	156.3	162.2	160.0	—	132.0	129.9	135.5	133.2	—
Water transportation .....	44	186.4	168.6	185.6	180.4	180.1	—	—	—	—	—
Water transportation of freight, nec .....	444	14.7	14.2	15.5	15.2	—	—	—	—	—	—
Water transportation services .....	449	126.7	112.9	124.9	120.3	—	111.7	98.6	109.4	104.6	—
Transportation by air .....	45	1,156.9	1,138.9	1,215.7	1,163.5	1,168.1	—	—	—	—	—
Air transportation, scheduled .....	451	981.3	970.4	1,035.6	983.1	—	—	—	—	—	—
Air transportation, scheduled .....	4512	526.7	517.2	534.5	532.6	—	—	—	—	—	—
Airports, flying fields, and services .....	458	130	125	134	134	—	—	—	—	—	—
Pipelines, except natural gas .....	46	14.2	14.2	14.1	13.9	14.1	11.6	11.5	11.4	11.3	—
Transportation services .....	47	448.7	439.9	455.6	452.9	454.3	366.8	359.3	372.9	370.0	—
Passenger transportation arrangement .....	472	216.9	212.8	216.3	215.5	—	182.4	178.4	181.3	180.6	—
Travel agencies .....	4724	172.9	170.4	172.1	171.6	—	145.5	143.0	144.4	143.6	—
Freight transportation arrangement .....	473	183.0	179.2	189.7	189.3	—	143.7	141.2	150.2	149.4	—
Communications and public utilities .....		2,341	2,312	2,359	2,361	2,361	—	—	—	—	—
Communications .....	48	1,486.5	1,456.5	1,508.8	1,514.7	1,516.7	1,082.9	1,076.2	1,106.8	1,121.2	—
Telephone communications .....	481	1,023.3	1,005.2	1,037.9	1,046.1	—	715.8	713.9	736.6	752.9	—
Telephone communications, except radio .....	4813	860.1	840.9	874.4	882.4	—	593.9	589.3	610.7	626.0	—
Radio and television broadcasting .....	483	245.5	243.1	245.7	245.2	—	201.8	201.6	200.7	199.0	—
Radio broadcasting stations .....	4832	117.4	116.0	119.1	118.2	—	—	—	—	—	—
Television broadcasting stations .....	4833	128.1	127.1	126.6	127.0	—	—	—	—	—	—
Cable and other pay television services .....	484	185.0	177.2	190.9	189.4	—	151.3	147.2	155.1	154.2	—
Electric, gas, and sanitary services .....	49	855.0	855.6	850.2	845.8	844.5	684.6	681.5	683.4	680.7	—
Electric services .....	491	363.1	363.1	360.8	359.0	—	293.5	291.9	293.3	292.0	—
Gas production and distribution .....	492	139.7	140.6	138.2	137.2	—	108.5	109.1	107.2	106.8	—
Combination utility services .....	493	156.5	158.1	155.3	153.2	—	122.3	122.1	122.4	120.6	—
Sanitary services .....	495	162.9	161.4	163.1	163.7	—	134.2	132.9	134.6	135.6	—
<b>Wholesale trade .....</b>		<b>6,825</b>	<b>6,702</b>	<b>6,882</b>	<b>6,842</b>	<b>6,853</b>	<b>5,471</b>	<b>5,371</b>	<b>5,516</b>	<b>5,475</b>	<b>5,476</b>
Durable goods .....	50	4,069	3,994	4,102	4,089	4,102	3,208	3,151	3,236	3,223	—
Motor vehicles, parts, and supplies .....	501	520.0	514.2	524.1	522.8	—	414.3	413.6	414.8	413.0	—
Automobiles and other motor vehicles .....	5012	149.4	146.8	153.1	152.1	—	—	—	—	—	—
Motor vehicle supplies and new parts .....	5013	291.1	290.0	290.4	290.8	—	—	—	—	—	—
Furniture and home furnishings .....	502	164.4	160.8	168.2	166.9	—	131.0	127.4	135.2	133.4	—
Furniture .....	5021	79.9	77.9	81.6	81.8	—	—	—	—	—	—
Home furnishings .....	5023	84.5	82.9	86.6	85.1	—	—	—	—	—	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Lumber and other construction materials .....	503	267.6	255.4	271.2	267.6	—	222.0	210.6	224.4	221.8	—
Lumber, plywood, and millwork .....	5031	137.2	133.0	139.9	139.1	—	—	—	—	—	—
Construction materials, nec .....	5039	39.4	37.2	40.2	39.1	—	—	—	—	—	—
Professional and commercial equipment .....	504	910.1	886.6	935.1	940.2	—	708.0	687.6	731.6	736.1	—
Office equipment .....	5044	212.3	206.7	217.9	217.1	—	—	—	—	—	—
Computers, peripherals and software .....	5045	363.6	352.2	374.5	378.0	—	—	—	—	—	—
Medical and hospital equipment .....	5047	189.7	185.7	195.7	197.6	—	152.8	149.3	157.8	160.6	—
Metals and minerals, except petroleum .....	505	151.4	149.4	152.3	152.1	—	122.1	120.9	122.4	121.9	—
Electrical goods .....	506	554.8	550.0	557.9	555.2	—	403.9	403.2	406.6	405.4	—
Electrical apparatus and equipment .....	5063	233.1	230.6	235.1	235.2	—	—	—	—	—	—
Electrical appliances, television and radio sets .....	5064	49.9	49.4	51.1	51.6	—	—	—	—	—	—
Electronic parts and equipment .....	5065	271.7	270.0	271.7	268.4	—	—	—	—	—	—
Hardware, plumbing, and heating equipment .....	507	302.8	299.3	302.2	299.0	—	246.9	243.3	246.3	244.5	—
Hardware .....	5072	109.1	107.0	108.9	108.6	—	—	—	—	—	—
Plumbing and hydronic heating supplies .....	5074	118.5	117.9	118.8	116.8	—	—	—	—	—	—
Machinery, equipment, and supplies .....	508	839.4	827.7	836.2	833.9	—	670.0	660.9	667.2	664.1	—
Construction and mining machinery .....	5082	92.3	90.6	93.8	93.2	—	—	—	—	—	—
Farm and garden machinery .....	5083	123.7	120.2	120.9	120.7	—	—	—	—	—	—
Industrial machinery and equipment .....	5084	338.3	336.3	337.2	335.6	—	—	—	—	—	—
Industrial supplies .....	5085	158.0	155.4	156.5	156.2	—	—	—	—	—	—
Misc. wholesale trade durable goods .....	509	357.9	350.2	355.0	350.9	—	290.0	283.0	287.0	282.9	—
Scrap and waste materials .....	5093	132.1	132.9	128.6	127.5	—	—	—	—	—	—
Nondurable goods .....	51	2,757	2,708	2,780	2,753	2,751	2,262	2,220	2,280	2,252	—
Paper and paper products .....	511	268.7	265.6	272.0	271.2	—	224.6	221.8	226.5	224.9	—
Stationery and office supplies .....	5112	156.9	155.1	159.9	158.5	—	—	—	—	—	—
Drugs, proprietaries, and sundries .....	512	215.7	213.1	218.7	219.9	—	180.0	177.0	182.8	184.0	—
Apparel, piece goods, and notions .....	513	226.1	219.9	228.3	226.0	—	183.8	177.6	185.5	183.5	—
Groceries and related products .....	514	908.5	900.2	920.6	909.6	—	763.7	757.2	773.6	762.3	—
Groceries, general line .....	5141	288.0	288.7	286.3	285.9	—	—	—	—	—	—
Meats and meat products .....	5147	55.6	55.7	57.0	56.1	—	—	—	—	—	—
Fresh fruits and vegetables .....	5148	98.2	95.2	98.0	93.0	—	—	—	—	—	—
Farm-product raw materials .....	515	108.1	105.1	109.2	108.2	—	87.6	84.4	88.3	86.6	—
Chemicals and allied products .....	516	150.9	150.4	150.8	152.4	—	110.2	109.9	109.9	111.0	—
Petroleum and petroleum products .....	517	158.6	157.9	159.6	158.6	—	130.9	130.9	131.4	130.6	—
Petroleum bulk stations and terminals .....	5171	66.5	65.6	67.3	66.8	—	—	—	—	—	—
Petroleum products, nec .....	5172	92.0	92.3	92.3	91.8	—	—	—	—	—	—
Beer, wine, and distilled beverages .....	518	154.9	152.3	157.0	155.3	—	125.5	122.5	127.3	125.4	—
Beer and ale .....	5181	99.4	97.4	100.2	99.6	—	—	—	—	—	—
Wine and distilled beverages .....	5182	55.5	54.9	56.8	55.7	—	—	—	—	—	—
Misc. wholesale trade nondurable goods .....	519	565.2	543.4	563.4	552.1	—	456.3	439.0	454.8	443.4	—
Farm supplies .....	5191	171.1	161.7	166.0	166.5	—	—	—	—	—	—
<b>Retail trade .....</b>		<b>22,475</b>	<b>21,885</b>	<b>23,385</b>	<b>22,345</b>	<b>22,315</b>	<b>19,741</b>	<b>19,210</b>	<b>20,584</b>	<b>19,575</b>	<b>19,544</b>
Building materials and garden supplies .....	52	975.6	902.6	981.4	948.6	952.9	811.1	745.0	814.1	782.3	—
Lumber and other building materials .....	521	592.8	555.2	596.3	586.5	—	500.8	467.6	502.8	493.2	—
Paint, glass, and wallpaper stores .....	523	69.8	67.3	70.1	69.5	—	53.6	52.0	52.5	51.9	—
Hardware stores .....	525	165.7	161.7	168.6	164.6	—	136.5	132.4	139.7	136.2	—
Retail nurseries and garden stores .....	526	98.8	74.2	96.6	79.6	—	81.9	58.5	79.6	63.1	—
General merchandise stores .....	53	2,790.4	2,766.0	3,133.3	2,832.9	2,751.5	2,590.4	2,561.0	2,931.6	2,641.0	—
Department stores .....	531	2,459.9	2,430.6	2,758.9	2,498.5	2,431.5	2,307.3	2,273.7	2,606.3	2,352.1	—
Variety stores .....	533	139.4	137.9	157.9	137.1	—	118.4	116.1	135.6	117.8	—
Miscellaneous general merchandise stores .....	539	191.1	197.5	216.5	197.3	—	164.7	171.2	189.7	171.1	—
Food stores .....	54	3,545.0	3,513.5	3,624.9	3,532.5	3,521.9	3,212.5	3,184.8	3,285.7	3,193.7	—
Grocery stores .....	541	3,095.3	3,091.4	3,132.7	3,086.5	—	2,827.3	2,823.3	2,861.7	2,814.6	—
Meat and fish markets .....	542	50.1	47.8	58.8	49.0	—	—	—	—	—	—
Dairy products stores .....	545	13.6	12.0	14.7	13.4	—	—	—	—	—	—
Retail bakeries .....	546	226.2	216.1	237.3	227.9	—	196.7	189.2	206.8	197.4	—
Automotive dealers and service stations .....	55	2,351.4	2,300.9	2,366.1	2,352.7	2,363.8	1,951.2	1,914.8	1,957.0	1,944.3	—
New and used car dealers .....	551	1,062.8	1,049.6	1,069.5	1,067.4	1,072.9	891.1	879.5	896.4	894.8	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Retail trade—Continued</b>											
<b>Automotive dealers and service stations—Continued</b>											
Auto and home supply stores .....	553	409.4	397.4	415.5	412.6	—	311.9	307.4	312.7	311.8	—
Gasoline service stations .....	554	672.9	660.8	676.7	670.4	—	583.1	574.2	585.1	577.1	—
Automotive dealers, nec .....	559	9.8	9.7	9.7	10.1	—	8.0	7.9	7.9	8.3	—
Apparel and accessory stores .....	56	1,104.7	1,112.8	1,204.0	1,114.8	1,085.1	924.0	931.1	1,020.9	932.7	—
Men's and boys' clothing stores .....	561	80.0	81.4	85.9	81.4	—	64.9	66.0	70.7	66.1	—
Women's clothing stores .....	562	272.2	278.2	291.0	274.3	—	226.2	231.4	243.6	228.1	—
Family clothing stores .....	565	358.8	361.5	414.0	365.9	—	320.4	323.4	374.5	325.4	—
Shoe stores .....	566	201.5	202.7	207.2	199.7	—	159.2	159.6	164.5	156.4	—
Furniture and home furnishings stores .....	57	1,061.8	1,046.3	1,134.6	1,101.7	1,098.7	874.2	862.0	943.5	910.5	—
Furniture and home furnishings stores .....	571	541.6	530.9	570.9	554.1	—	441.1	433.0	467.9	452.6	—
Furniture stores .....	5712	319.3	311.3	330.6	325.7	—	—	—	—	—	—
Household appliance stores .....	572	69.3	70.4	71.4	70.5	—	56.2	57.0	58.3	57.6	—
Radio, television, and computer stores .....	573	450.9	445.0	492.3	477.1	—	376.9	372.0	417.3	400.3	—
Radio, television, and electronic stores .....	5731	197.3	195.6	215.2	207.3	—	164.9	163.7	181.8	173.7	—
Record and prerecorded tape stores .....	5735	86.0	83.1	103.7	95.7	—	72.8	69.7	90.8	81.4	—
Eating and drinking places .....	58	7,745.8	7,362.6	7,809.7	7,511.9	7,607.4	6,958.3	6,603.9	6,996.2	6,711.4	—
Miscellaneous retail establishments .....	59	2,900.5	2,880.2	3,131.3	2,949.9	2,933.5	2,418.8	2,407.4	2,634.7	2,458.7	—
Drug stores and proprietary stores .....	591	649.3	646.7	670.5	665.8	—	542.6	542.4	558.7	556.0	—
Liquor stores .....	592	112.9	111.6	115.9	110.3	—	—	—	—	—	—
Used merchandise stores .....	593	121.2	118.4	125.2	124.4	—	100.8	98.1	104.0	103.6	—
Miscellaneous shopping goods stores .....	594	1,016.8	1,029.2	1,161.8	1,058.9	—	850.6	865.1	992.8	890.7	—
Sporting goods and bicycle shops .....	5941	199.2	199.9	215.5	202.0	—	—	—	—	—	—
Book stores .....	5942	131.1	142.9	147.6	141.0	—	—	—	—	—	—
Stationery stores .....	5943	93.5	92.2	97.0	96.0	—	—	—	—	—	—
Jewelry stores .....	5944	146.8	155.7	163.2	156.8	—	—	—	—	—	—
Gift, novelty, and souvenir shops .....	5947	234.4	225.2	260.5	233.9	—	—	—	—	—	—
Sewing, needlework, and piece goods .....	5949	49.9	50.6	51.4	50.6	—	—	—	—	—	—
Nonstore retailers .....	596	357.9	357.7	390.9	351.7	—	303.6	302.5	334.8	296.9	—
Catalog and mail-order houses .....	5961	234.8	233.0	269.3	231.2	—	—	—	—	—	—
Merchandising machine operators .....	5962	68.5	68.0	68.7	68.2	—	—	—	—	—	—
Fuel dealers .....	598	97.9	102.3	101.6	103.7	—	81.0	85.4	83.8	85.9	—
Retail stores, nec .....	599	544.5	514.3	565.4	535.1	—	448.5	422.9	465.7	436.0	—
Florists, tobacco stores, and newsstands .....	5992,3,4	159.9	151.0	170.1	156.8	—	—	—	—	—	—
Optical goods stores .....	5995	74.6	71.0	76.0	74.6	—	60.0	58.0	60.7	58.9	—
Miscellaneous retail stores, nec .....	5999	310.1	292.3	319.3	303.7	—	253.0	237.1	260.8	245.3	—
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>7,341</b>	<b>7,157</b>	<b>7,437</b>	<b>7,420</b>	<b>7,423</b>	<b>5,390</b>	<b>5,232</b>	<b>5,452</b>	<b>5,437</b>	<b>5,430</b>
Finance .....		3,553	3,478	3,615	3,616	3,620	—	—	—	—	—
Depository institutions .....	60	2,041.3	2,034.5	2,046.8	2,046.1	2,043.9	1,467.6	1,461.5	1,469.8	1,469.7	—
Commercial banks .....	602	1,459.6	1,461.7	1,458.9	1,457.3	1,455.4	1,034.9	1,035.9	1,032.7	1,031.6	—
State commercial banks .....	6022	602.1	595.4	611.5	611.6	—	431.6	426.4	439.5	439.6	—
National and commercial banks, nec .....	6021,9	857.5	866.3	847.4	845.7	—	603.3	609.5	593.2	592.0	—
Savings institutions .....	603	263.6	262.2	264.0	264.6	263.5	—	—	—	—	—
Federal savings institutions .....	6035	145.9	145.9	145.4	144.8	—	—	—	—	—	—
Savings institutions, except federal .....	6036	117.7	116.3	118.6	119.8	—	—	—	—	—	—
Credit unions .....	606	178.7	175.0	181.6	182.1	—	142.2	138.9	144.7	144.9	—
Nondepository institutions .....	61	620.1	587.9	652.4	656.0	660.0	425.9	407.8	445.0	447.2	—
Personal credit institutions .....	614	186.8	186.6	189.8	190.7	—	110.0	117.4	106.9	107.2	—
Business credit institutions .....	615	122.7	117.8	128.7	130.8	—	—	—	—	—	—
Mortgage bankers and brokers .....	616	288.7	262.6	311.9	311.3	314.0	—	—	—	—	—
Security and commodity brokers .....	62	648.5	622.8	664.6	663.9	662.9	—	—	—	—	—
Security brokers and dealers .....	621	476.2	459.9	486.3	485.5	—	—	—	—	—	—
Commodity contracts brokers, dealers, and exchanges .....	622,3	25.6	25.4	25.5	25.4	—	—	—	—	—	—
Security and commodity services .....	628	146.8	137.5	152.8	153.0	—	98.8	91.5	104.1	104.3	—
Holding and other investment offices .....	67	242.8	233.0	250.9	249.7	253.5	—	—	—	—	—
Holding offices .....	671	111.9	109.4	115.7	116.3	—	—	—	—	—	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Finance, insurance, and real estate—Continued</b>											
Insurance .....	63,64	2,328	2,287	2,359	2,353	2,351	—	—	—	—	—
Insurance carriers .....	63	1,585.7	1,553.4	1,608.4	1,608.1	1,604.6	1,199.4	1,157.1	1,225.1	1,225.7	—
Life insurance .....	631	528.2	522.7	532.3	533.2	—	352.7	344.2	358.5	359.7	—
Medical service and health insurance .....	632	354.3	345.7	362.1	362.0	—	285.9	280.3	289.9	288.6	—
Hospital and medical service plans .....	6324	290.9	283.5	297.6	297.2	—	238.7	233.6	242.5	241.1	—
Fire, marine, and casualty insurance .....	633	547.3	538.8	550.4	548.0	—	434.7	415.3	443.8	443.4	—
Title insurance .....	636	82.1	74.7	88.1	89.9	—	—	—	—	—	—
Insurance agents, brokers, and service .....	64	742.6	733.2	750.2	745.1	746.7	—	—	—	—	—
Real estate .....	65	1,460	1,392	1,463	1,451	1,452	—	—	—	—	—
Real estate operators and lessors .....	651	584.3	568.5	588.0	580.3	—	—	—	—	—	—
Real estate agents and managers .....	653	717.1	680.2	719.0	715.7	—	—	—	—	—	—
Subdividers and developers .....	655	119.4	107.4	114.7	113.4	—	—	—	—	—	—
<b>Services .....</b>		<b>37,525</b>	<b>36,114</b>	<b>37,984</b>	<b>37,382</b>	<b>37,830</b>	<b>32,740</b>	<b>31,466</b>	<b>33,072</b>	<b>32,456</b>	<b>32,873</b>
Agricultural services .....	07	713.6	585.3	688.9	635.7	635.6	602.3	482.7	576.1	527.5	—
Veterinary services .....	074	190.1	183.0	193.3	192.8	—	160.2	153.5	163.1	162.9	—
Landscape and horticultural services .....	078	472.7	353.3	444.4	391.8	—	399.9	288.3	370.5	322.1	—
Hotels and other lodging places .....	70	1,771.4	1,656.8	1,699.3	1,670.7	1,683.7	—	—	—	—	—
Hotels and motels .....	701	1,718.2	1,618.9	1,659.3	1,631.7	—	1,508.6	1,417.8	1,453.7	1,426.7	—
Personal services .....	72	1,181.3	1,216.8	1,166.1	1,226.1	1,237.4	—	—	—	—	—
Laundry, cleaning, and garment services .....	721	440.8	440.0	442.4	436.5	—	388.3	387.9	389.2	383.6	—
Photographic studios, portrait .....	722	55.6	57.0	51.8	44.1	—	—	—	—	—	—
Beauty shops .....	723	402.1	392.5	409.4	404.6	—	355.2	347.7	361.4	355.9	—
Funeral service and crematories .....	726	100.0	97.5	99.9	100.6	—	—	—	—	—	—
Miscellaneous personal services .....	729	167.6	214.1	147.5	225.3	—	143.2	188.5	122.6	198.3	—
Business services .....	73	8,546.1	8,135.1	8,820.3	8,564.3	8,634.8	7,571.4	7,199.7	7,802.2	7,536.2	—
Advertising .....	731	268.2	262.0	273.0	271.3	—	192.8	188.6	195.3	193.1	—
Advertising agencies .....	7311	174.9	171.0	177.4	176.2	—	—	—	—	—	—
Credit reporting and collection .....	732	138.2	135.9	140.6	140.5	—	—	—	—	—	—
Mailing, reproduction, and stenographic services .....	733	315.4	310.7	320.2	317.2	—	—	—	—	—	—
Photocopying and duplicating services .....	7334	79.1	77.2	79.4	79.3	—	67.1	65.6	66.7	66.2	—
Services to buildings .....	734	976.1	943.8	985.3	981.5	982.4	872.3	841.4	878.1	868.5	—
Disinfecting and pest control services .....	7342	95.5	88.9	95.6	95.7	—	77.4	71.2	76.8	76.4	—
Building maintenance services, nec .....	7349	880.6	854.9	889.7	885.8	—	794.9	770.2	801.3	792.1	—
Miscellaneous equipment rental and leasing .....	735	262.3	250.2	263.8	256.2	—	208.2	197.4	208.9	202.0	—
Medical equipment rental .....	7352	40.8	41.8	41.1	39.9	—	30.1	31.1	31.3	30.8	—
Heavy construction equipment rental .....	7353	46.8	43.8	48.1	46.9	—	39.6	36.8	40.5	39.5	—
Equipment rental and leasing, nec .....	7359	174.7	164.6	174.6	169.4	—	138.5	129.5	137.1	131.7	—
Personnel supply services .....	736	3,161.2	2,954.5	3,255.5	3,026.8	3,057.6	—	—	—	—	—
Employment agencies .....	7361	337.5	326.9	350.9	338.0	—	—	—	—	—	—
Help supply services .....	7363	2,823.7	2,627.6	2,904.6	2,688.8	2,714.7	2,738.1	2,550.7	2,811.5	2,588.4	—
Computer and data processing services .....	737	1,603.0	1,509.0	1,693.1	1,710.7	1,724.1	1,282.8	1,204.2	1,360.8	1,382.9	—
Computer programming services .....	7371	369.5	348.9	389.0	393.3	—	315.7	297.9	332.7	337.6	—
Prepackaged software .....	7372	268.9	249.6	282.7	290.7	—	—	—	—	—	—
Computer integrated systems design .....	7373	183.5	173.3	192.6	193.5	—	130.1	120.9	141.8	142.7	—
Data processing and preparation .....	7374	272.2	259.6	287.5	288.2	—	—	—	—	—	—
Information retrieval services .....	7375	92.4	86.5	100.0	102.2	—	67.3	61.0	76.4	77.2	—
Computer maintenance and repair .....	7378	58.1	57.7	59.1	59.1	—	41.2	39.5	43.5	43.8	—
Miscellaneous business services .....	738	1,821.8	1,769.0	1,888.8	1,860.1	—	1,585.9	1,539.3	1,643.7	1,616.2	—
Detective and armored car services .....	7381	607.3	590.7	626.2	617.0	—	559.2	544.6	576.3	568.4	—
Security systems services .....	7382	59.4	59.9	60.1	61.4	—	48.8	49.8	48.9	50.1	—
Photofinishing laboratories .....	7384	80.9	77.7	85.7	79.1	—	—	—	—	—	—
Auto repair, services, and parking .....	75	1,159.1	1,133.4	1,171.7	1,167.8	1,181.3	940.7	925.1	944.1	941.0	—
Automotive rentals, without drivers .....	751	207.1	199.1	210.8	209.3	—	169.2	162.0	172.0	169.7	—
Passenger car rental .....	7514	138.3	133.0	140.0	138.6	—	114.2	109.9	115.0	113.2	—
Automobile parking .....	752	76.1	73.7	77.3	75.0	—	66.2	64.2	67.1	64.9	—
Automotive repair shops .....	753	634.7	623.1	642.2	642.8	—	499.3	495.9	498.4	501.3	—
Automotive and tire repair shops .....	7532,4	222.2	217.9	226.8	228.7	—	181.0	178.0	183.8	185.1	—
General automotive repair shops .....	7538	269.1	266.6	270.6	270.4	—	205.8	209.7	201.6	203.5	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Services—Continued</b>											
Auto repair, services, and parking—Continued											
Automotive services, except repair .....	754	241.3	237.5	241.4	240.7	—	205.9	203.0	206.6	205.1	—
Carwashes .....	7542	127.1	124.5	126.1	126.7	—	112.7	110.2	111.7	111.9	—
Miscellaneous repair services .....	76	386.4	375.6	392.1	389.2	389.5	316.1	307.0	320.6	317.7	—
Electrical repair shops .....	762	118.0	114.3	119.2	118.3	—	—	—	—	—	—
Motion pictures .....	78	564.7	561.4	568.7	561.3	570.6	470.2	469.2	476.6	468.0	—
Motion picture production and services .....	781	240.1	237.1	244.5	236.6	—	199.5	197.9	204.1	197.1	—
Motion picture theaters .....	783	133.5	131.3	131.7	132.3	—	—	—	—	—	—
Video tape rental .....	784	171.9	172.9	173.9	174.0	—	137.8	139.3	141.1	140.8	—
Amusement and recreation services .....	79	1,688.3	1,394.9	1,562.6	1,496.3	1,530.6	1,476.1	1,195.4	1,345.0	1,277.8	—
Bowling centers .....	793	78.9	84.0	83.8	83.5	—	70.1	75.1	75.0	74.5	—
Misc. amusement and recreation services .....	799	1,234.2	1,001.5	1,121.4	1,078.1	—	1,080.8	860.4	966.0	922.2	—
Physical fitness facilities .....	7991	180.4	171.0	185.6	187.2	—	160.3	152.1	164.5	165.9	—
Membership sports and recreation clubs .....	7997	359.8	264.2	323.4	281.6	—	316.9	225.8	280.4	239.2	—
Health services .....	80	9,903.5	9,812.3	9,974.7	9,933.6	9,947.5	8,773.4	8,696.3	8,826.0	8,792.0	—
Offices and clinics of medical doctors .....	801	1,817.3	1,780.0	1,852.4	1,850.3	1,853.1	1,496.5	1,465.7	1,520.7	1,520.3	—
Offices and clinics of dentists .....	802	643.5	633.5	654.8	654.4	—	560.8	552.1	570.6	571.1	—
Offices and clinics of other health practitioners .....	804	464.0	453.4	469.9	464.6	—	385.1	375.8	390.3	387.8	—
Offices and clinics of chiropractors and optometrists .....	8041,2	169.8	166.9	170.9	169.3	—	—	—	—	—	—
Nursing and personal care facilities .....	805	1,757.3	1,753.2	1,754.7	1,746.2	1,745.3	1,580.3	1,576.4	1,576.5	1,567.8	—
Skilled nursing care facilities .....	8051	1,333.0	1,329.0	1,332.9	1,325.6	—	—	—	—	—	—
Intermediate care facilities .....	8052	208.2	207.5	208.2	207.3	—	187.2	186.3	186.9	185.9	—
Nursing and personal care, nec .....	8059	216.1	216.7	213.6	213.3	—	—	—	—	—	—
Hospitals .....	806	3,952.5	3,910.3	3,982.2	3,971.8	3,974.9	3,621.8	3,584.2	3,647.3	3,638.5	—
General medical and surgical hospitals .....	8062	3,642.3	3,605.0	3,669.1	3,658.5	—	—	—	—	—	—
Psychiatric hospitals .....	8063	85.1	83.7	86.5	85.8	—	—	—	—	—	—
Specialty hospitals, excluding psychiatric .....	8069	225.1	221.6	226.6	227.5	—	—	—	—	—	—
Medical and dental laboratories .....	807	202.4	200.0	204.1	204.8	—	—	—	—	—	—
Home health care services .....	808	679.9	702.5	663.3	649.3	655.3	626.5	648.3	610.6	597.7	—
Legal services .....	81	981.5	959.6	996.7	992.3	994.7	783.8	764.7	795.9	792.7	—
Educational services .....	82	2,206.8	2,122.2	2,370.0	2,200.8	2,403.5	—	—	—	—	—
Elementary and secondary schools .....	821	655.7	651.1	687.9	681.7	—	—	—	—	—	—
Colleges and universities .....	822	1,274.2	1,209.5	1,397.0	1,242.3	—	—	—	—	—	—
Vocational schools .....	824	87.1	83.8	92.3	88.5	—	—	—	—	—	—
Social services .....	83	2,627.8	2,551.8	2,690.8	2,677.0	2,706.1	2,275.2	2,207.0	2,328.9	2,311.8	—
Individual and family services .....	832	708.6	681.6	731.3	724.1	—	614.4	589.4	635.4	627.8	—
Job training and related services .....	833	379.8	356.3	379.8	376.8	—	328.9	304.9	328.3	325.3	—
Child day care services .....	835	580.6	580.7	600.4	597.8	606.4	512.5	513.9	529.3	525.9	—
Residential care .....	836	751.2	731.5	764.7	765.3	771.4	651.0	634.4	662.3	661.6	—
Social services, nec .....	839	207.6	201.7	214.6	213.0	—	168.4	164.4	173.6	171.2	—
Museums and botanical and zoological gardens .....	84	92.0	82.7	91.1	85.5	85.1	—	—	—	—	—
Membership organizations .....	86	2,270.5	2,222.4	2,270.5	2,250.8	2,270.7	—	—	—	—	—
Business associations .....	861	109.7	107.1	111.1	110.3	—	—	—	—	—	—
Professional organizations .....	862	61.6	60.2	62.6	62.6	—	44.5	43.5	45.3	45.4	—
Labor organizations .....	863	140.6	137.2	144.8	138.4	—	—	—	—	—	—
Civic and social associations .....	864	457.7	425.0	450.0	437.7	—	—	—	—	—	—
Engineering and management services .....	87	3,235.7	3,109.0	3,322.4	3,332.9	3,361.2	2,471.9	2,366.4	2,523.1	2,523.7	—
Engineering and architectural services .....	871	917.8	887.6	930.8	927.5	926.7	754.4	727.7	763.9	759.3	—
Engineering services .....	8711	701.3	681.1	707.0	704.4	—	582.9	565.1	587.0	582.9	—
Architectural services .....	8712	157.2	150.5	162.4	162.3	—	122.9	117.2	126.8	127.0	—
Surveying services .....	8713	59.4	56.0	61.4	60.8	—	48.5	45.4	50.1	49.4	—
Accounting, auditing, and bookkeeping .....	872	643.7	629.5	653.2	669.0	—	456.7	441.7	456.7	470.3	—

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>				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Services—Continued</b>											
Engineering and management services—Continued											
Research and testing services .....	873	628.6	601.7	641.7	640.5	—	482.1	458.6	490.7	485.8	—
Commercial physical research .....	8731	235.8	230.3	239.2	239.3	—	163.2	159.8	164.6	163.3	—
Commercial nonphysical research .....	8732	146.8	134.8	153.3	153.1	—	122.7	111.5	128.3	125.5	—
Noncommercial research organizations .....	8733	149.3	142.3	151.9	151.4	—	117.2	111.1	118.7	118.4	—
Management and public relations .....	874	1,045.5	990.2	1,096.7	1,095.9	1,108.3	778.8	738.4	811.8	808.3	—
Management services .....	8741	348.1	328.5	370.8	368.9	—	259.1	242.8	276.0	272.5	—
Management consulting services .....	8742	380.4	356.9	400.2	401.5	—	281.0	264.8	291.7	291.8	—
Public relations services .....	8743	43.4	41.3	45.8	46.5	—	29.2	28.0	30.4	30.8	—
Services, nec .....	89	52.4	50.6	54.5	53.8	54.3	41.3	39.8	42.9	42.4	—
<b>Government</b> .....		19,862	19,614	20,389	19,974	20,377	—	—	—	—	—
Federal Government <sup>4</sup> .....		2,686	2,654	2,739	2,680	2,684	—	—	—	—	—
Executive, by agency <sup>4</sup> .....		2,624.6	2,593.0	2,677.3	—	—	—	—	—	—	—
Department of Defense .....		665.3	673.5	652.7	—	—	—	—	—	—	—
Postal Service <sup>5</sup> .....		866.9	854.4	937.1	—	—	—	—	—	—	—
Other executive agencies .....		1,092.4	1,065.1	1,087.5	—	—	—	—	—	—	—
Legislative .....		30.7	30.9	30.2	—	—	—	—	—	—	—
Judicial .....		30.8	30.2	31.1	—	—	—	—	—	—	—
Federal Government, except Postal Service .....		1,819.3	1,799.7	1,801.5	1,804.2	1,811.8	—	—	—	—	—
Federal Government, by industry:											
Manufacturing activities .....		47.4	48.0	46.5	47.1	—	—	—	—	—	—
Ship building and repairing .....	3731	22.0	21.9	21.6	22.5	—	—	—	—	—	—
Transportation and public utilities, except Postal Service .....		12.3	12.5	12.2	12.1	—	—	—	—	—	—
Services .....		356.6	355.7	348.6	346.3	—	—	—	—	—	—
Hospitals .....	806	220.3	221.0	218.6	218.5	—	—	—	—	—	—
State government .....		4,648	4,547	4,773	4,624	4,790	—	—	—	—	—
Construction .....		87.7	86.6	87.1	87.0	—	—	—	—	—	—
Transportation and public utilities .....		51.4	51.6	51.5	51.9	—	—	—	—	—	—
Services .....		2,660.7	2,595.2	2,789.3	2,632.5	—	—	—	—	—	—
Hospitals .....	806	365.3	365.1	366.6	366.6	—	—	—	—	—	—
Education .....	82	1,939.2	1,881.9	2,067.2	1,909.4	2,070.8	—	—	—	—	—
Social services .....		208.4	205.6	210.9	211.1	—	—	—	—	—	—
Services, except hospitals, education, and social services .....		147.8	142.6	144.6	145.4	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		1,848.1	1,813.3	1,844.7	1,852.6	—	—	—	—	—	—
State government, except education .....		2,708.6	2,664.8	2,705.4	2,714.6	2,719.5	—	—	—	—	—
Local government .....		12,527	12,413	12,877	12,670	12,903	—	—	—	—	—
Transportation and public utilities .....		455.6	453.8	455.0	454.8	—	—	—	—	—	—
Services .....		8,235.3	8,251.8	8,632.4	8,453.2	—	—	—	—	—	—
Hospitals .....	806	652.2	644.3	658.2	656.7	—	—	—	—	—	—
Education .....	82	7,070.0	7,122.4	7,476.5	7,303.6	7,514.3	—	—	—	—	—
Social services .....		142.3	139.7	142.8	141.4	—	—	—	—	—	—
Services, except hospitals, education, and social services .....		370.8	345.4	354.9	351.5	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		3,836.3	3,707.1	3,789.1	3,762.3	—	—	—	—	—	—
Local government, except education .....		5,457.1	5,290.3	5,400.0	5,366.7	5,388.3	—	—	—	—	—

<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.

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  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Avg. 1998	Dec. 1997	Oct. 1998	Nov. 1998	Dec. 1998
<b>Total</b> .....	60,813	60,926	61,686	62,053	62,243
<b>Total private</b> .....	49,729	49,679	50,290	50,515	50,741
<b>Goods-producing</b> .....	6,732	6,765	6,734	6,709	6,683
<b>Mining</b> .....	82	82	81	80	80
<b>Construction</b> .....	668	644	688	686	681
<b>Manufacturing</b> .....	5,982	6,039	5,965	5,943	5,922
<b>Durable goods</b> .....	2,958	2,973	2,942	2,937	2,931
Lumber and wood products .....	142.7	138.9	145.9	146.8	145.5
Furniture and fixtures .....	166.0	163.1	166.8	166.9	168.5
Stone, clay, and glass products .....	106.7	105.3	107.0	106.6	106.1
Primary metal industries .....	104.1	103.7	103.9	103.4	102.8
Fabricated metal products .....	334.4	332.4	337.0	336.3	336.0
Industrial machinery and equipment .....	478.5	484.7	469.1	468.1	469.2
Electronic and other electrical equipment .....	701.0	716.6	687.0	685.0	683.7
Transportation equipment .....	401.5	404.0	405.3	406.1	405.6
Instruments and related products .....	353.8	354.5	351.6	350.0	348.8
Miscellaneous manufacturing .....	169.0	169.7	168.8	168.1	164.7
<b>Nondurable goods</b> .....	3,024	3,066	3,023	3,006	2,991
Food and kindred products .....	559.0	554.0	573.7	568.3	561.7
Tobacco products .....	12.8	14.0	13.8	13.8	13.7
Textile mill products .....	276.1	282.8	273.8	271.4	270.4
Apparel and other textile products .....	562.4	593.1	548.0	537.5	531.8
Paper and allied products .....	165.9	167.7	165.2	163.6	164.0
Printing and publishing .....	706.8	710.2	707.2	709.1	709.2
Chemicals and allied products .....	331.4	330.4	332.2	332.2	331.4
Petroleum and coal products .....	23.7	24.6	23.6	23.7	23.4
Rubber and misc. plastics products .....	342.9	344.0	343.3	344.0	344.4
Leather and leather products .....	43.2	45.6	42.5	41.9	41.3
<b>Service-producing</b> .....	54,082	54,161	54,952	55,344	55,560
<b>Transportation and public utilities</b> .....	1,973	1,965	2,019	2,019	2,032
<b>Wholesale trade</b> .....	2,091	2,081	2,115	2,120	2,117
<b>Retail trade</b> .....	11,822	12,190	11,962	12,201	12,429
<b>Finance, insurance, and real estate</b> .....	4,605	4,521	4,636	4,648	4,665
<b>Services</b> .....	22,506	22,157	22,824	22,818	22,815
<b>Government</b> .....	11,084	11,247	11,396	11,538	11,502
Federal .....	1,139	1,164	1,140	1,146	1,162
State .....	2,388	2,408	2,467	2,483	2,466
Local .....	7,557	7,675	7,789	7,909	7,874

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		
	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>Alabama</b> .....	1,860.9	1,937.4	1,912.3	10.5	10.6	10.6	93.8	106.0	103.4
Birmingham .....	463.8	483.1	474.0	3.3	3.0	3.0	26.5	29.6	29.0
Huntsville .....	172.6	178.7	176.3	(1)	(1)	(1)	5.7	6.2	6.0
Mobile .....	218.9	231.2	228.1	(1)	(1)	(1)	17.1	19.0	18.6
Montgomery .....	157.6	164.9	163.1	(1)	(1)	(1)	8.1	8.7	8.7
Tuscaloosa .....	78.3	82.6	81.1	2.7	2.8	2.8	5.0	5.3	5.2
<b>Alaska</b> .....	254.7	265.1	258.8	10.0	10.3	9.3	10.2	11.7	10.5
Anchorage .....	122.0	130.2	125.6	2.6	2.6	2.5	5.5	6.2	5.7
<b>Arizona</b> .....	2,017.1	2,150.6	2,092.3	13.2	12.6	12.5	134.6	151.1	149.4
Phoenix-Mesa .....	1,412.6	1,515.7	1,470.3	5.8	5.6	5.5	98.7	110.4	109.1
Tucson .....	314.1	336.4	328.2	2.2	2.1	2.1	19.1	20.8	20.2
<b>Arkansas</b> .....	1,094.0	1,138.1	1,112.0	3.4	3.2	3.1	44.3	48.1	45.2
Fayetteville-Springdale-Rogers .....	137.2	144.6	140.9	(1)	(1)	(1)	5.2	5.6	5.3
Fort Smith .....	94.7	98.2	96.9	.9	.7	.7	4.0	4.2	4.2
Little Rock-North Little Rock .....	302.1	311.9	306.1	(1)	(1)	(1)	13.3	14.3	13.6
Pine Bluff .....	35.5	36.6	36.0	(1)	(1)	(1)	.8	1.1	1.0
<b>California</b> .....	13,203.4	13,907.7	13,648.8	26.3	24.6	24.0	544.3	624.3	611.0
Bakersfield .....	180.1	188.3	186.0	9.8	8.8	8.8	8.9	10.3	9.8
Fresno .....	267.6	283.4	277.2	.4	.3	.3	12.7	14.9	14.2
Los Angeles-Long Beach .....	3,864.7	4,025.6	3,958.0	5.1	4.8	4.7	109.5	119.1	116.0
Modesto .....	129.7	140.0	137.2	(2)	(2)	(2)	6.5	8.2	7.8
Oakland .....	949.5	997.4	981.8	1.7	1.7	1.7	47.7	53.3	53.0
Orange County .....	1,262.8	1,325.6	1,310.4	.8	.9	.9	60.1	64.6	63.7
Riverside-San Bernardino .....	853.0	904.9	895.8	1.1	1.0	1.0	53.8	59.9	60.3
Sacramento .....	628.1	664.0	652.6	.2	.2	.2	31.0	37.5	36.8
Salinas .....	116.8	124.0	121.6	.1	.1	.1	4.9	5.7	5.6
San Diego .....	1,066.7	1,122.9	1,108.5	.3	.3	.3	55.6	63.1	61.7
San Francisco .....	984.5	1,035.1	1,020.5	.5	.5	.5	34.1	39.8	39.1
San Jose .....	941.6	965.5	951.8	.1	.1	.1	38.5	43.4	42.4
Santa Barbara-Santa Maria-Lompoc .....	150.8	156.5	154.3	.9	.7	.7	6.4	7.0	7.0
Santa Rosa .....	165.6	178.3	175.0	.4	.5	.5	8.2	9.8	9.4
Stockton-Lodi .....	165.3	174.0	170.8	.1	.1	.1	7.0	8.5	7.9
Vallejo-Fairfield-Napa .....	148.4	159.3	156.8	.5	.5	.5	9.3	10.7	10.7
Ventura .....	245.0	259.5	254.7	1.3	1.2	1.2	10.6	13.8	13.3
<b>Colorado</b> .....	1,996.9	2,102.6	2,068.4	13.9	13.8	13.5	115.7	133.6	130.4
Boulder-Longmont .....	157.5	168.1	163.0	(1)	(1)	(1)	6.5	7.5	7.2
Colorado Springs .....	219.1	229.1	224.7	(1)	(1)	(1)	12.0	12.1	11.9
Denver .....	1,060.6	1,116.4	1,100.8	6.9	6.7	6.6	60.8	70.5	69.0
<b>Connecticut</b> .....	1,602.4	1,684.1	1,631.8	.7	.8	.7	52.5	59.6	54.1
Bridgeport .....	184.4	191.8	184.6	(2)	(2)	(2)	5.7	6.8	5.8
Danbury .....	86.1	91.0	86.8	(1)	(1)	(1)	3.4	4.0	3.7
Hartford .....	589.8	615.1	596.1	(1)	(1)	(1)	18.1	20.3	18.2
New Haven-Meriden .....	248.6	259.9	253.7	(1)	(1)	(1)	8.6	9.9	9.0
New London-Norwich .....	134.9	140.2	136.9	(1)	(1)	(1)	4.3	4.9	4.4
Stamford-Norwalk .....	200.4	209.6	203.5	(1)	(1)	(1)	5.4	6.0	5.6
Waterbury .....	84.5	88.1	85.5	(2)	(2)	(2)	3.0	3.5	3.1
<b>Delaware</b> .....	386.0	409.6	399.0	.1	.1	.1	21.6	23.5	22.2
Dover .....	51.6	54.8	53.8	.1	.1	.1	2.3	2.6	2.4
Wilmington-Newark .....	302.7	321.5	312.9	.2	.2	.2	16.1	17.6	16.3
<b>District of Columbia</b> .....	603.6	618.6	604.2	.1	.1	.1	8.8	8.5	8.6
Washington PMSA .....	2,470.5	2,611.5	2,553.9	1.0	1.2	1.2	121.1	134.4	128.5
<b>Florida</b> .....	6,530.4	6,877.6	6,796.3	6.6	6.9	6.8	335.4	361.8	357.1
Daytona Beach .....	152.2	157.2	157.0	(2)	(2)	(2)	7.5	8.2	8.1
Fort Lauderdale .....	634.1	663.9	653.6	.1	.1	.1	34.1	36.1	35.2
Fort Myers-Cape Coral .....	157.0	163.0	162.8	(2)	(2)	(2)	12.9	14.2	14.2
Gainesville .....	114.0	117.9	116.4	(2)	(2)	(2)	4.3	4.6	4.5
Jacksonville .....	516.3	544.5	538.3	(2)	(2)	(2)	27.7	29.2	28.7
Lakeland-Winter Haven .....	173.5	180.5	179.2	3.1	3.1	3.1	9.6	10.2	10.0
Melbourne-Titusville-Palm Bay .....	177.9	186.2	185.2	(2)	(2)	(2)	9.0	9.9	9.8
Miami .....	966.0	998.8	984.3	.3	.3	.3	32.7	34.9	34.8
Orlando .....	813.3	868.7	855.9	(2)	(2)	(2)	45.0	48.5	48.4
Pensacola .....	150.5	159.0	157.3	(2)	(2)	(2)	10.7	11.1	11.1
Sarasota-Bradenton .....	244.0	258.1	256.4	(2)	(2)	(2)	12.3	13.5	13.4
Tallahassee .....	150.2	157.4	153.7	(2)	(2)	(2)	5.8	6.1	6.1
Tampa-St. Petersburg-Clearwater .....	1,094.4	1,167.6	1,157.3	.4	.5	.5	51.9	56.6	56.0
West Palm Beach-Boca Raton .....	454.8	497.2	488.5	(2)	(2)	(2)	24.9	28.0	27.4

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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Alabama</b> .....	379.3	375.9	375.2	90.9	92.8	92.5	421.6	455.5	443.8
Birmingham .....	51.9	52.5	52.3	30.7	30.9	30.8	110.5	118.6	114.2
Huntsville .....	38.6	38.3	37.9	3.8	4.0	4.1	34.2	36.7	35.7
Mobile .....	27.7	28.3	28.1	12.7	12.9	13.0	57.3	62.0	60.6
Montgomery .....	18.0	18.5	18.4	6.4	6.7	6.7	37.2	40.0	38.4
Tuscaloosa .....	12.0	12.4	12.4	2.4	2.5	2.5	18.0	20.2	19.1
<b>Alaska</b> .....	11.3	8.2	11.5	23.1	24.4	23.8	52.4	56.5	53.1
Anchorage .....	1.8	1.9	1.8	12.4	13.2	12.9	29.8	32.3	30.3
<b>Arizona</b> .....	213.9	218.7	216.8	97.7	105.2	104.3	491.5	520.7	507.5
Phoenix-Mesa .....	168.2	171.5	170.2	72.0	78.4	77.8	348.3	370.0	360.6
Tucson .....	28.3	29.3	28.6	13.3	13.6	13.1	69.7	73.2	71.1
<b>Arkansas</b> .....	252.0	254.3	253.2	65.7	70.1	67.6	248.0	262.2	252.4
Fayetteville-Springdale-Rogers .....	33.9	34.2	34.3	9.5	10.1	10.1	38.6	41.3	39.8
Fort Smith .....	26.7	27.5	27.3	6.4	6.5	6.4	19.5	19.9	19.4
Little Rock-North Little Rock .....	33.3	33.6	33.3	21.2	22.0	22.0	69.7	73.2	70.5
Pine Bluff .....	8.3	8.5	8.5	1.8	1.8	1.8	7.0	7.4	7.1
<b>California</b> .....	1,924.4	1,953.7	1,936.7	675.1	705.7	695.3	3,059.0	3,251.8	3,120.9
Bakersfield .....	9.6	9.6	9.7	10.0	10.8	10.5	42.4	44.4	43.1
Fresno .....	28.5	30.0	29.2	12.9	14.4	13.7	66.4	69.8	67.4
Los Angeles-Long Beach .....	659.6	669.4	665.2	218.3	227.8	226.0	860.6	905.8	876.2
Modesto .....	24.5	26.6	26.4	5.1	5.5	5.1	33.1	35.3	34.3
Oakland .....	122.1	121.8	121.7	61.3	64.2	63.7	215.0	228.9	220.5
Orange County .....	229.6	239.8	239.9	45.2	47.4	47.4	317.4	333.1	323.6
Riverside-San Bernardino .....	106.4	113.1	113.4	43.8	47.4	46.5	219.5	234.3	226.8
Sacramento .....	46.6	45.7	45.2	25.0	26.7	26.3	136.7	145.7	139.3
Salinas .....	9.2	9.6	9.6	5.1	5.5	5.4	30.6	33.1	31.6
San Diego .....	124.6	127.3	126.5	43.1	45.9	45.6	243.6	256.4	249.3
San Francisco .....	77.1	78.1	77.1	79.6	81.4	80.8	206.5	221.1	215.5
San Jose .....	265.1	258.9	257.4	28.1	29.2	28.6	184.3	190.8	183.9
Santa Barbara-Santa Maria-Lompoc .....	17.5	17.4	17.4	5.2	5.4	5.3	36.3	38.9	37.4
Santa Rosa .....	26.7	28.1	27.8	6.2	7.0	6.8	42.2	44.4	43.4
Stockton-Lodi .....	22.0	22.8	22.8	11.7	12.1	12.0	40.0	42.0	40.4
Vallejo-Fairfield-Napa .....	17.3	19.4	19.0	6.1	6.5	6.3	39.0	41.4	40.3
Ventura .....	34.1	33.8	33.6	10.1	10.5	10.4	58.6	62.9	60.3
<b>Colorado</b> .....	207.7	206.3	206.1	126.9	134.2	134.3	480.6	515.4	501.7
Boulder-Longmont .....	32.4	32.5	32.5	3.7	4.3	4.1	33.6	37.6	35.0
Colorado Springs .....	27.8	26.9	26.9	12.5	12.2	12.0	48.2	52.7	51.0
Denver .....	93.1	92.6	92.3	88.8	95.2	94.9	254.6	271.3	265.7
<b>Connecticut</b> .....	279.0	276.9	276.5	74.6	76.7	75.6	348.6	372.3	353.3
Bridgeport .....	39.7	38.8	38.7	7.0	7.1	7.0	42.0	43.9	41.8
Danbury .....	19.7	19.5	19.4	2.7	3.0	2.7	21.6	23.4	21.3
Hartford .....	95.6	95.7	94.9	26.2	27.2	26.8	122.5	128.0	122.8
New Haven-Meriden .....	39.6	40.3	40.3	16.2	17.0	16.7	51.9	55.1	52.8
New London-Norwich .....	24.5	24.1	24.0	6.5	6.7	6.5	27.0	29.0	27.5
Stamford-Norwalk .....	28.0	26.8	26.4	10.4	10.5	10.1	43.7	46.1	43.8
Waterbury .....	18.9	18.6	18.6	3.7	3.7	3.7	17.8	19.3	18.5
<b>Delaware</b> .....	57.8	60.5	59.4	15.8	17.1	17.1	83.0	90.3	85.7
Dover .....	6.1	6.3	6.1	1.9	2.0	2.1	12.1	13.1	12.3
Wilmington-Newark .....	43.6	45.7	45.4	13.6	14.6	14.5	61.1	65.8	62.5
<b>District of Columbia</b> .....	12.3	12.6	11.9	16.3	15.9	15.6	45.7	50.0	46.2
Washington PMSA .....	101.3	104.4	103.9	113.7	120.4	118.9	463.9	492.5	468.2
<b>Florida</b> .....	490.5	501.5	498.6	327.3	349.8	346.6	1,663.1	1,753.1	1,708.0
Daytona Beach .....	14.2	14.4	14.4	4.4	5.0	5.0	42.1	43.2	42.6
Fort Lauderdale .....	39.5	40.1	39.7	30.3	31.1	30.6	178.1	190.3	185.5
Fort Myers-Cape Coral .....	6.7	7.1	7.1	7.4	7.7	7.7	44.3	46.3	45.8
Gainesville .....	5.5	5.3	5.3	2.2	2.5	2.5	23.4	24.7	23.9
Jacksonville .....	38.9	40.5	40.5	36.2	38.4	38.1	126.5	132.5	128.1
Lakeland-Winter Haven .....	20.3	20.8	20.8	8.5	9.2	8.9	48.8	51.2	50.5
Melbourne-Titusville-Palm Bay .....	26.7	27.2	27.2	5.2	5.8	5.9	42.0	45.0	44.3
Miami .....	73.6	74.9	74.4	83.8	88.9	87.7	252.8	266.3	258.4
Orlando .....	52.5	54.9	54.6	42.1	44.6	43.8	200.1	214.6	209.0
Pensacola .....	10.6	10.5	10.4	7.2	7.7	7.6	38.6	41.8	41.1
Sarasota-Bradenton .....	20.6	21.5	21.6	5.0	5.3	5.2	59.8	62.8	61.3
Tallahassee .....	5.0	4.8	4.8	4.0	4.2	4.2	30.7	32.2	31.1
Tampa-St. Petersburg-Clearwater .....	88.5	90.1	89.1	47.0	51.2	52.0	259.1	271.1	263.3
West Palm Beach-Boca Raton .....	30.9	33.0	32.8	15.7	17.0	16.5	118.8	127.3	125.3

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	Finance, insurance, and real estate			Services			Government		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Alabama</b> .....	86.0	88.1	87.8	430.2	456.5	450.7	348.6	352.0	348.3
Birmingham .....	34.7	36.2	36.2	136.6	143.9	141.1	69.6	68.4	67.4
Huntsville .....	4.8	4.7	4.7	46.9	50.3	49.8	38.6	38.5	38.1
Mobile .....	9.6	10.0	9.9	60.2	63.5	62.7	34.3	35.5	35.2
Montgomery .....	9.5	9.8	9.8	41.5	44.1	44.2	36.9	37.1	36.9
Tuscaloosa .....	2.4	2.4	2.5	13.9	14.7	14.6	21.9	22.3	22.0
<b>Alaska</b> .....	12.0	12.5	12.2	62.9	67.1	65.3	72.8	74.4	73.1
Anchorage .....	7.2	7.5	7.4	34.3	37.2	36.1	28.4	29.3	28.9
<b>Arizona</b> .....	131.1	143.9	142.2	597.1	647.1	622.5	338.0	351.3	337.1
Phoenix-Mesa .....	109.7	122.6	121.6	431.2	465.6	444.6	178.7	191.6	180.9
Tucson .....	12.3	13.7	13.2	102.4	109.4	108.3	66.8	74.3	71.6
<b>Arkansas</b> .....	44.5	45.0	44.7	252.3	265.2	259.6	183.8	190.0	186.2
Fayetteville-Springdale-Rogers .....	4.9	5.2	5.2	26.7	27.9	27.3	18.4	20.3	18.9
Fort Smith .....	3.1	3.1	3.1	24.3	26.1	25.9	9.8	10.2	9.9
Little Rock-North Little Rock .....	18.0	17.6	17.7	87.1	91.0	89.1	59.5	60.2	59.9
Pine Bluff .....	1.3	1.3	1.3	8.6	8.5	8.6	7.7	8.0	7.7
<b>California</b> .....	774.2	809.4	805.0	4,061.0	4,314.6	4,264.4	2,139.1	2,223.6	2,191.5
Bakersfield .....	6.7	7.4	7.4	43.3	46.5	46.4	49.4	50.5	50.3
Fresno .....	13.6	14.1	13.9	68.2	71.8	71.1	64.9	68.1	67.4
Los Angeles-Long Beach .....	221.9	228.8	228.3	1,252.5	1,316.7	1,294.3	537.2	553.2	547.3
Modesto .....	4.4	4.4	4.4	32.6	35.5	35.3	23.5	24.5	23.9
Oakland .....	53.8	55.7	56.0	280.7	299.2	295.4	167.2	172.6	169.8
Orange County .....	96.5	100.4	100.4	379.3	398.4	395.8	133.9	141.0	138.7
Riverside-San Bernardino .....	29.3	30.6	30.6	226.4	238.3	237.9	172.7	180.3	179.3
Sacramento .....	45.0	48.8	48.7	175.1	187.3	185.2	168.5	172.1	170.9
Salinas .....	5.7	6.1	6.1	32.7	34.5	34.2	28.5	29.4	29.0
San Diego .....	62.0	64.6	64.5	345.1	365.0	362.6	192.4	200.3	198.0
San Francisco .....	106.0	107.9	106.8	360.0	380.1	376.5	120.7	126.2	124.2
San Jose .....	31.2	32.6	32.4	306.2	320.3	317.3	88.1	90.2	89.7
Santa Barbara-Santa Maria-Lompoc .....	7.3	7.6	7.6	45.6	47.4	46.6	31.6	32.1	32.3
Santa Rosa .....	9.6	10.5	10.6	47.1	51.3	50.3	25.2	26.7	26.2
Stockton-Lodi .....	8.5	8.5	8.5	41.5	44.2	43.6	34.5	35.8	35.5
Vallejo-Fairfield-Napa .....	5.8	6.2	6.2	39.2	42.0	41.6	31.2	32.6	32.2
Ventura .....	12.8	14.1	14.2	73.9	77.9	76.7	43.6	45.3	45.0
<b>Colorado</b> .....	131.2	138.3	138.4	605.8	632.3	624.1	315.1	328.7	319.9
Boulder-Longmont .....	5.5	6.2	6.3	50.5	52.9	52.2	25.3	27.1	25.7
Colorado Springs .....	12.2	12.8	12.8	71.2	76.0	74.3	35.2	36.4	35.8
Denver .....	86.3	90.1	90.1	325.8	341.3	336.1	144.3	148.7	146.1
<b>Connecticut</b> .....	132.6	138.7	137.8	492.8	523.8	508.0	221.6	235.3	225.8
Bridgeport .....	10.3	10.7	10.6	58.4	63.3	59.7	21.3	21.2	21.0
Danbury .....	4.5	4.9	4.9	24.4	25.3	24.6	9.8	10.9	10.2
Hartford .....	69.5	71.3	70.2	168.9	176.2	171.0	89.0	96.4	92.2
New Haven-Meriden .....	13.4	13.7	13.8	88.1	92.3	90.4	30.8	31.6	30.7
New London-Norwich .....	3.7	3.7	3.8	33.9	35.5	34.7	35.0	36.3	36.0
Stamford-Norwalk .....	24.3	25.4	25.3	71.1	76.7	74.6	17.5	18.1	17.7
Waterbury .....	3.6	3.6	3.6	25.7	27.1	26.1	11.8	12.3	11.9
<b>Delaware</b> .....	47.9	49.3	49.4	106.5	113.4	111.1	53.3	55.4	54.0
Dover .....	2.1	2.2	2.2	11.9	12.6	12.7	15.2	16.0	16.0
Wilmington-Newark .....	42.3	43.5	43.6	87.3	94.1	91.2	38.5	40.0	39.2
<b>District of Columbia</b> .....	28.6	29.1	28.9	264.3	277.6	268.6	227.5	224.8	224.3
Washington PMSA .....	136.5	142.9	141.4	954.9	1,026.1	1,007.6	578.1	589.6	584.2
<b>Florida</b> .....	417.5	440.2	437.9	2,325.4	2,478.7	2,466.6	964.6	985.6	974.7
Daytona Beach .....	6.6	7.0	7.0	54.0	56.6	57.0	23.4	22.8	22.9
Fort Lauderdale .....	46.3	49.9	49.4	219.8	230.1	227.1	85.9	86.2	86.0
Fort Myers-Cape Coral .....	9.0	9.0	9.1	51.5	53.0	53.1	25.0	25.5	25.6
Gainesville .....	5.2	5.1	5.1	33.6	36.1	36.4	39.8	39.6	38.7
Jacksonville .....	54.8	57.4	57.0	165.2	177.9	177.3	66.6	68.1	68.1
Lakeland-Winter Haven .....	8.0	8.8	8.8	48.9	50.9	51.0	26.3	26.3	26.1
Melbourne-Titusville-Palm Bay .....	6.0	6.3	6.4	64.0	66.7	66.6	25.0	25.3	25.0
Miami .....	66.2	65.8	65.7	316.7	327.7	321.9	139.9	140.0	141.1
Oriando .....	46.6	51.1	50.8	340.2	363.4	360.3	86.4	91.1	88.6
Pensacola .....	6.0	6.2	6.1	48.2	51.8	51.5	29.0	29.7	29.3
Sarasota-Bradenton .....	12.1	12.6	12.7	110.4	117.7	117.7	23.7	24.6	24.4
Tallahassee .....	5.9	6.5	6.3	40.1	43.1	42.4	58.5	60.3	58.6
Tampa-St. Petersburg-Clearwater .....	79.2	85.8	85.8	433.7	471.8	472.9	134.6	140.5	137.7
West Palm Beach-Boca Raton .....	32.5	35.2	35.0	177.8	200.5	196.9	54.2	56.2	54.6

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	Total			Mining			Construction		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Georgia</b> .....	3,638.8	3,842.0	3,761.0	7.6	7.9	7.9	167.1	193.0	187.1
Albany .....	58.9	59.8	59.0	(2)	(2)	(2)	3.7	3.2	3.2
Athens .....	72.7	74.7	72.5	(1)	(1)	(1)	2.7	2.7	2.6
Atlanta .....	1,977.5	2,093.3	2,043.2	1.6	1.6	1.5	93.9	107.4	102.8
Augusta-Aiken .....	191.4	199.3	196.7	.4	.4	.4	11.0	11.9	11.7
Columbus .....	116.4	120.8	119.1	(1)	(1)	(1)	5.4	5.3	5.3
Macon .....	146.4	151.4	149.2	1.1	1.0	1.0	6.0	6.4	5.9
Savannah .....	130.8	135.7	133.7	(1)	(1)	(1)	8.0	8.6	8.5
<b>Hawaii</b> .....	526.2	533.8	524.5	(1)	(1)	(1)	21.0	20.5	20.6
Honolulu .....	398.3	402.9	394.6	(1)	(1)	(1)	16.2	15.4	15.4
<b>Idaho</b> .....	500.6	534.1	522.6	2.6	2.9	2.8	27.3	32.8	31.1
Boise City .....	194.1	206.0	202.0	(1)	(1)	(1)	12.5	13.4	12.8
<b>Illinois</b> .....	5,716.3	5,995.9	5,829.8	10.9	10.6	10.2	201.3	241.6	213.9
Bloomington-Normal .....	81.2	86.3	84.1	(1)	(1)	(1)	2.2	2.9	2.4
Champaign-Urbana .....	91.9	100.3	94.8	(1)	(1)	(1)	3.0	3.5	2.9
Chicago .....	4,007.2	4,221.5	4,113.8	1.4	1.7	1.7	139.1	168.7	150.4
Davenport-Moline-Rock Island .....	178.2	184.4	177.8	(1)	(1)	(1)	7.8	9.4	7.9
Decatur .....	55.6	57.5	56.0	(1)	(1)	(1)	3.4	3.7	3.4
Kankakee .....	43.2	44.4	43.3	(1)	(1)	(1)	1.9	1.9	1.8
Peoria-Pekin .....	170.1	177.1	173.8	(1)	(1)	(1)	7.0	8.0	6.9
Rockford .....	174.1	177.6	175.4	(1)	(1)	(1)	6.0	7.2	6.5
Springfield .....	111.0	115.4	112.2	(1)	(1)	(1)	4.0	4.5	3.7
<b>Indiana</b> .....	2,839.4	2,971.2	2,881.7	6.7	6.9	6.6	130.2	143.6	128.7
Bloomington .....	64.2	66.6	64.1	(1)	(1)	(1)	2.5	2.8	2.6
Elkhart-Goshen .....	116.0	122.9	120.9	(1)	(1)	(1)	4.2	5.2	4.7
Evansville-Henderson .....	151.2	160.6	155.8	1.2	1.2	1.2	9.7	10.4	9.1
Fort Wayne .....	266.8	277.4	269.9	(1)	(1)	(1)	11.9	13.4	12.4
Gary .....	261.0	275.4	266.8	(1)	(1)	(1)	16.9	21.9	20.2
Indianapolis .....	827.0	868.1	854.5	.7	.7	.7	41.8	47.1	44.5
Kokomo .....	50.8	53.7	52.1	(1)	(1)	(1)	1.7	1.8	1.5
Lafayette .....	91.7	97.1	93.3	(1)	(1)	(1)	3.6	3.9	3.4
Muncie .....	59.0	61.7	59.2	(1)	(1)	(1)	2.1	2.5	2.1
South Bend .....	132.8	139.4	135.0	(1)	(1)	(1)	6.8	6.8	6.1
Terre Haute .....	66.3	68.8	67.3	.2	.2	.2	2.8	3.2	3.0
<b>Iowa</b> .....	1,396.5	1,478.3	1,434.4	1.8	2.3	1.9	50.8	60.7	52.7
Cedar Rapids .....	112.8	120.5	116.9	(1)	(1)	(1)	5.6	6.2	5.8
Des Moines .....	269.3	284.7	280.7	(1)	(1)	(1)	10.3	12.5	11.3
Dubuque .....	50.0	52.4	50.8	(1)	(1)	(1)	1.4	1.8	1.4
Iowa City .....	66.5	68.8	67.3	(1)	(1)	(1)	2.0	2.2	2.0
Sioux City .....	64.7	67.6	66.5	(1)	(1)	(1)	2.4	3.1	2.7
Waterloo-Cedar Falls .....	72.0	74.6	71.2	(1)	(1)	(1)	2.3	2.5	2.2
<b>Kansas</b> .....	1,273.1	1,337.5	1,315.7	8.0	7.0	6.8	53.2	62.3	59.0
Lawrence .....	45.9	50.0	47.5	(1)	(1)	(1)	1.9	2.1	1.9
Topeka .....	98.8	103.2	100.7	(1)	(1)	(1)	3.8	4.5	4.2
Wichita .....	280.1	289.9	286.4	1.3	1.2	1.2	13.0	14.9	14.3
<b>Kentucky</b> .....	1,700.5	1,782.2	1,735.7	22.8	23.4	23.0	74.8	85.4	77.7
Lexington .....	268.0	283.8	273.6	.3	.3	.3	12.1	13.7	12.8
Louisville .....	548.2	580.5	564.9	.6	.6	.6	27.4	30.1	28.3
Owensboro .....	43.1	45.6	44.0	.3	.3	.3	3.0	3.5	3.2
<b>Louisiana</b> .....	1,845.5	1,928.7	1,894.5	56.8	56.2	55.2	117.6	130.3	128.5
Alexandria .....	53.6	56.7	55.9	.1	.1	.1	3.0	3.7	3.6
Baton Rouge .....	280.9	301.7	295.7	1.0	1.0	1.0	31.0	33.9	34.1
Houma .....	77.6	80.9	79.9	7.6	7.0	6.7	4.4	4.3	4.3
Lafayette .....	161.5	170.4	167.6	17.5	17.8	17.6	8.6	9.9	9.2
Lake Charles .....	86.2	88.1	87.5	1.3	1.2	1.2	10.5	11.0	11.3
Monroe .....	67.9	70.8	70.3	.2	.2	.2	3.4	3.5	3.4
New Orleans .....	611.0	633.6	625.6	15.1	15.4	15.1	31.8	35.3	35.1
Shreveport-Bossier City .....	169.0	177.9	175.7	2.7	2.6	2.5	8.9	10.4	10.1
<b>Maine</b> .....	537.5	582.4	555.4	.1	.1	.1	20.6	24.8	22.6
Lewiston-Auburn .....	41.6	44.6	43.2	(2)	(2)	(2)	1.4	1.6	1.4
Portland .....	140.2	149.7	147.9	(2)	(2)	(2)	6.0	7.1	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		
	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>Georgia</b> .....	589.0	598.9	595.1	235.1	249.1	245.0	906.6	966.4	925.1
Albany .....	8.9	8.5	8.4	3.3	3.6	3.7	13.6	14.2	13.6
Athens .....	11.7	11.5	11.5	1.8	1.8	1.8	18.0	19.0	18.1
Atlanta .....	219.8	223.4	221.3	168.1	178.9	176.3	525.4	559.4	535.5
Augusta-Aiken .....	41.1	41.2	41.2	6.7	6.9	6.9	40.5	43.8	41.5
Columbus .....	22.4	21.8	21.8	4.0	4.2	4.2	24.9	27.0	25.4
Macon .....	19.8	19.6	19.4	5.4	5.5	5.6	33.3	35.3	33.7
Savannah .....	18.4	18.2	18.2	9.6	8.5	8.8	32.0	35.6	33.6
<b>Hawaii</b> .....	16.4	16.1	16.1	41.3	40.3	40.2	132.6	133.2	130.4
Honolulu .....	12.8	12.6	12.5	33.1	31.9	31.9	97.8	97.4	95.2
<b>Idaho</b> .....	75.4	76.4	74.6	24.4	26.1	26.2	127.1	136.9	133.3
Boise City .....	36.1	35.6	35.1	9.9	10.8	10.8	46.3	49.7	48.2
<b>Illinois</b> .....	972.5	972.5	966.1	341.9	354.9	350.9	1,308.3	1,387.6	1,337.1
Bloomington-Normal .....	8.7	8.8	8.7	3.1	3.2	3.2	17.8	18.7	17.8
Champaign-Urbana .....	11.1	11.3	11.3	2.6	2.6	2.6	20.8	21.8	21.0
Chicago .....	655.3	654.2	649.0	251.5	260.2	256.9	909.8	965.3	934.1
Davenport-Moline-Rock Island .....	31.1	31.8	29.6	9.7	10.3	10.2	47.6	49.1	47.4
Decatur .....	13.6	13.6	13.7	5.1	5.2	5.2	12.0	12.5	11.9
Kankakee .....	8.4	8.3	8.2	2.1	2.1	2.2	10.8	11.3	10.8
Peoria-Pekin .....	32.9	34.1	33.9	9.9	10.3	10.4	41.6	43.2	42.1
Rockford .....	53.5	51.1	52.9	9.2	9.5	9.4	36.2	37.8	36.4
Springfield .....	4.5	4.9	4.7	4.7	4.9	4.7	23.1	24.2	23.1
<b>Indiana</b> .....	677.6	686.0	682.0	140.7	146.6	143.8	667.5	705.4	674.9
Bloomington .....	10.0	9.3	9.2	1.8	1.9	1.8	14.3	15.7	14.4
Elkhart-Goshen .....	58.1	61.7	61.9	2.7	3.0	2.9	21.6	23.2	22.3
Evansville-Henderson .....	31.9	33.7	33.1	7.2	7.4	7.3	37.4	40.5	39.0
Fort Wayne .....	75.2	75.7	75.7	12.7	13.2	13.0	62.8	65.8	62.8
Gary .....	50.0	50.3	50.3	14.5	14.7	14.2	61.3	64.5	61.0
Indianapolis .....	127.1	129.8	128.7	52.2	54.3	53.6	214.3	224.2	221.6
Kokomo .....	20.5	20.8	20.9	1.2	1.1	1.1	11.1	12.0	11.6
Lafayette .....	22.4	22.5	22.4	2.2	2.4	2.3	18.7	20.1	19.1
Muncie .....	10.7	10.6	10.6	3.2	3.6	3.5	13.5	14.4	13.9
South Bend .....	22.5	22.6	22.5	5.7	5.7	5.7	34.2	35.2	33.5
Terre Haute .....	12.0	12.0	12.0	2.9	3.0	3.1	18.1	18.9	18.2
<b>Iowa</b> .....	255.6	264.0	261.4	66.6	71.2	69.6	342.4	364.8	351.7
Cedar Rapids .....	21.8	22.5	22.4	8.1	8.4	8.3	25.4	26.2	25.2
Des Moines .....	25.1	25.0	25.0	13.7	14.9	15.0	70.3	74.5	73.2
Dubuque .....	11.9	12.1	12.0	2.1	1.9	1.8	12.2	12.6	12.2
Iowa City .....	5.0	5.2	5.1	2.2	2.1	2.1	13.0	13.4	12.8
Sioux City .....	13.1	13.8	13.6	3.8	3.8	3.8	15.9	16.7	16.3
Waterloo-Cedar Falls .....	15.0	14.7	13.1	2.5	2.6	2.6	16.9	17.6	17.0
<b>Kansas</b> .....	211.0	214.5	214.3	73.4	77.2	76.6	310.2	326.7	319.6
Lawrence .....	5.5	5.3	5.2	1.2	1.3	1.3	11.5	12.5	11.9
Topeka .....	9.8	10.0	10.1	5.9	5.8	5.7	21.3	23.1	22.1
Wichita .....	73.0	74.3	74.2	11.0	11.1	11.0	62.6	64.6	63.4
<b>Kentucky</b> .....	318.8	322.5	320.8	98.1	103.9	102.5	403.3	431.1	413.3
Lexington .....	48.1	50.0	49.7	10.7	11.3	10.8	60.3	65.7	62.0
Louisville .....	88.7	89.1	88.8	41.1	43.2	42.6	133.7	144.6	137.2
Owensboro .....	7.0	7.0	6.9	2.2	2.3	2.3	10.9	11.9	11.2
<b>Louisiana</b> .....	188.7	192.8	190.3	110.0	116.8	114.5	429.3	458.4	442.3
Alexandria .....	3.5	3.6	3.6	2.8	2.8	2.8	12.5	13.8	13.4
Baton Rouge .....	24.1	24.4	24.5	12.5	13.6	13.6	66.8	73.6	69.8
Houma .....	8.3	8.7	8.5	8.5	9.1	9.1	17.9	18.9	18.6
Lafayette .....	14.7	14.8	14.9	9.9	10.2	10.1	41.2	44.7	44.0
Lake Charles .....	12.0	11.8	11.8	4.2	4.9	4.5	18.2	18.8	18.5
Monroe .....	7.8	7.8	7.8	3.6	3.7	3.6	16.5	18.2	17.6
New Orleans .....	48.6	49.8	49.3	41.1	41.8	41.1	150.4	158.7	153.7
Shreveport-Bossier City .....	19.0	19.0	19.0	8.3	8.6	8.7	38.4	42.0	40.6
<b>Maine</b> .....	86.3	86.6	85.0	22.6	24.2	23.5	133.0	148.6	137.0
Lewiston-Auburn .....	7.7	7.9	7.9	1.7	1.8	1.7	10.5	11.5	10.7
Portland .....	14.8	15.0	14.9	6.6	6.7	6.6	41.0	43.3	42.4

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	Finance, insurance, and real estate			Services			Government		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Georgia</b> .....	193.7	204.7	203.9	955.3	1,025.6	1,004.7	584.4	596.4	592.2
Albany .....	2.0	2.1	2.1	14.9	15.4	15.1	12.5	12.8	12.9
Athens .....	2.4	2.5	2.4	15.7	16.3	15.7	20.4	20.9	20.4
Atlanta .....	130.6	138.1	137.2	581.2	623.5	610.0	256.9	261.0	258.6
Augusta-Aiken .....	6.2	6.2	6.2	45.6	47.8	47.7	39.9	41.1	41.1
Columbus .....	8.0	8.7	8.7	31.0	33.1	32.9	20.7	20.7	20.8
Macon .....	8.5	9.2	9.2	38.9	39.8	39.8	33.4	34.6	34.6
Savannah .....	4.5	4.6	4.7	37.6	39.4	39.1	20.7	20.8	20.8
<b>Hawaii</b> .....	35.2	35.3	35.1	168.6	173.5	171.7	111.1	114.9	110.4
Honolulu .....	28.4	28.2	28.0	120.8	124.9	123.1	89.2	92.5	88.5
<b>Idaho</b> .....	22.2	23.4	23.6	120.7	130.2	128.7	100.9	105.4	102.3
Boise City .....	10.6	11.2	11.2	48.4	53.1	52.5	30.3	32.2	31.4
<b>Illinois</b> .....	398.4	407.7	405.8	1,685.0	1,798.9	1,749.6	798.0	822.1	796.2
Bloomington-Normal .....	14.8	16.4	16.3	20.2	21.0	20.8	14.4	15.3	14.9
Champaign-Urbana .....	3.7	3.9	3.9	20.8	21.7	21.4	29.9	35.5	31.7
Chicago .....	310.6	318.1	316.6	1,253.1	1,358.2	1,320.4	486.4	495.1	484.7
Davenport-Moline-Rock Island .....	8.2	8.3	8.3	47.5	48.9	48.3	26.3	26.6	26.1
Decatur .....	2.0	2.1	2.0	13.2	13.7	13.3	6.3	6.7	6.5
Kankakee .....	1.7	1.7	1.7	11.5	12.2	11.9	6.8	6.9	6.7
Peoria-Pekin .....	7.6	7.9	7.8	52.9	54.6	53.9	18.2	19.0	18.8
Rockford .....	7.2	7.4	7.3	45.0	46.7	45.8	17.0	17.9	17.1
Springfield .....	7.9	7.8	7.7	33.2	35.2	34.7	33.6	33.9	33.6
<b>Indiana</b> .....	137.9	143.6	143.0	679.8	720.3	701.7	399.0	418.8	401.0
Bloomington .....	2.3	2.4	2.3	12.9	12.9	12.9	20.4	21.6	20.9
Elkhart-Goshen .....	2.8	2.9	3.0	18.8	18.7	18.2	7.8	8.3	7.9
Evansville-Henderson .....	7.0	7.5	7.5	42.0	43.9	43.1	14.8	16.0	15.5
Fort Wayne .....	15.0	14.9	14.9	62.4	67.7	65.4	26.8	26.7	25.7
Gary .....	9.0	9.4	9.3	71.9	74.5	72.9	37.4	40.1	38.9
Indianapolis .....	61.7	65.1	65.1	222.9	235.1	230.7	106.3	111.8	109.6
Kokomo .....	1.6	1.5	1.5	7.9	9.3	8.8	6.8	7.2	6.7
Lafayette .....	3.9	4.2	4.0	17.7	19.3	18.9	23.2	24.7	23.2
Muncie .....	1.8	1.9	1.9	15.2	15.8	15.4	12.5	12.9	11.8
South Bend .....	6.8	6.9	6.9	43.2	47.4	45.9	13.6	14.8	14.4
Terre Haute .....	2.3	2.3	2.3	16.1	16.9	16.5	11.9	12.3	12.0
<b>Iowa</b> .....	80.7	84.1	83.3	362.7	387.7	376.1	235.9	243.5	237.7
Cedar Rapids .....	6.1	6.4	6.2	34.7	37.4	36.0	11.1	13.4	13.0
Des Moines .....	38.0	39.9	39.4	76.8	83.7	82.9	35.1	34.2	33.9
Dubuque .....	1.8	1.9	1.9	16.9	18.3	17.8	3.7	3.8	3.7
Iowa City .....	2.0	2.2	2.1	13.9	15.1	14.9	28.4	28.6	28.3
Sioux City .....	2.7	2.8	2.8	19.1	19.5	19.5	7.7	7.9	7.8
Waterloo-Cedar Falls .....	3.2	3.0	3.0	19.3	21.0	20.6	12.8	13.2	12.7
<b>Kansas</b> .....	60.4	62.5	62.6	320.1	340.1	336.4	236.8	247.2	240.4
Lawrence .....	2.0	2.1	2.1	10.9	12.0	11.0	12.9	14.7	14.1
Topeka .....	6.7	6.8	6.7	28.7	30.7	30.1	22.6	22.3	21.8
Wichita .....	11.0	11.7	11.7	74.8	77.2	76.7	33.4	34.9	33.9
<b>Kentucky</b> .....	69.3	70.7	70.2	423.7	446.1	437.3	289.7	299.1	290.9
Lexington .....	10.2	10.3	10.3	72.0	76.0	75.0	54.3	56.5	52.7
Louisville .....	29.3	30.5	29.8	158.1	170.9	166.8	69.3	71.5	70.8
Owensboro .....	1.8	2.0	1.9	10.7	11.2	11.0	7.2	7.4	7.2
<b>Louisiana</b> .....	85.8	87.0	86.2	494.8	518.5	514.3	362.5	368.7	363.2
Alexandria .....	2.4	2.4	2.3	16.2	16.8	16.7	13.1	13.5	13.4
Baton Rouge .....	17.7	18.4	18.2	71.5	76.7	77.2	56.3	60.1	57.3
Houma .....	2.2	2.1	2.1	15.6	16.5	16.4	13.1	14.3	14.2
Lafayette .....	6.2	6.4	6.4	40.5	42.5	42.2	22.9	24.1	23.2
Lake Charles .....	2.7	2.5	2.5	24.2	24.3	24.4	13.1	13.6	13.3
Monroe .....	5.0	5.3	5.3	18.7	19.4	19.4	12.7	12.7	13.0
New Orleans .....	31.4	31.8	31.7	187.4	194.4	193.2	105.2	106.4	106.4
Shreveport-Bossier City .....	6.4	6.5	6.4	52.5	55.7	55.2	32.8	33.1	33.2
<b>Maine</b> .....	28.8	30.1	30.2	154.1	170.5	164.4	92.0	97.5	92.6
Lewiston-Auburn .....	2.1	2.3	2.3	13.4	14.3	14.1	4.7	5.1	5.0
Portland .....	12.3	13.2	13.1	41.6	44.8	44.6	17.9	19.6	19.0

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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Maryland</b> .....	2,250.0	2,368.7	2,307.6	1.3	1.3	1.3	130.5	144.9	137.1
Baltimore PMSA .....	1,156.1	1,209.9	1,181.5	.3	.3	.3	60.1	65.5	62.1
Baltimore City .....	392.9	407.0	400.0	(1)	(1)	(1)	11.5	12.6	11.9
Suburban Maryland-D.C. ....	830.8	879.5	856.3	(1)	(1)	(1)	57.4	64.5	61.6
<b>Massachusetts</b> .....	3,089.5	3,234.1	3,141.8	1.2	1.3	1.2	94.0	110.8	101.7
Barnstable-Yarmouth .....	51.1	56.9	53.9	(1)	(1)	(1)	2.5	2.8	2.7
Boston .....	1,900.2	1,982.9	1,934.0	.4	.4	.4	53.7	63.3	58.9
Brockton .....	92.6	99.7	96.1	(2)	(2)	(2)	3.1	3.8	3.5
Fitchburg-Leominster .....	50.8	53.2	52.0	(2)	(2)	(2)	1.4	1.9	1.7
Lawrence .....	149.1	153.3	149.8	(2)	(2)	(2)	5.1	6.0	5.3
Lowell .....	115.0	122.7	119.0	(1)	(1)	(1)	4.6	5.2	4.8
New Bedford .....	63.2	66.6	65.5	(2)	(2)	(2)	2.1	2.5	2.3
Pittsfield .....	40.9	42.8	41.8	.1	.1	.1	1.5	1.7	1.6
Springfield .....	246.4	258.3	249.2	.1	.1	.1	6.6	7.9	6.8
Worcester .....	224.0	234.0	226.6	.2	.2	.2	6.5	7.4	6.6
<b>Michigan</b> .....	4,419.2	4,596.2	4,477.6	7.4	7.7	7.2	164.9	184.9	163.9
Ann Arbor .....	267.2	281.3	270.8	(1)	(1)	(1)	9.3	10.8	9.2
Benton Harbor .....	69.2	72.3	69.7	(1)	(1)	(1)	2.1	2.6	2.2
Detroit .....	2,069.1	2,166.1	2,111.3	.8	.9	.9	72.3	86.4	78.7
Flint .....	175.5	180.6	175.1	(1)	(1)	(1)	6.7	8.1	7.6
Grand Rapids-Muskegon-Holland ..	549.3	581.0	563.5	(1)	(1)	(1)	23.0	26.4	24.2
Jackson .....	59.4	62.4	60.6	(1)	(1)	(1)	2.0	2.5	2.1
Kalamazoo-Battle Creek .....	206.6	214.2	208.8	(1)	(1)	(1)	7.5	8.8	7.7
Lansing-East Lansing .....	231.3	237.8	226.4	(1)	(1)	(1)	7.8	8.4	7.7
Saginaw-Bay City-Midland .....	174.5	182.8	176.6	(1)	(1)	(1)	8.3	9.0	7.7
<b>Minnesota</b> .....	2,479.4	2,609.4	2,538.7	7.2	7.8	7.4	82.0	100.6	90.3
Duluth-Superior .....	109.3	115.2	111.9	4.8	4.8	4.8	3.4	4.4	3.7
Minneapolis-St. Paul .....	1,610.7	1,709.9	1,663.4	(2)	(2)	(2)	53.4	63.7	57.6
Rochester .....	75.7	79.7	78.6	(1)	(1)	(1)	2.7	3.2	2.9
St. Cloud .....	84.7	89.0	86.4	(1)	(1)	(1)	3.4	4.1	3.7
<b>Mississippi</b> .....	1,109.3	1,142.4	1,126.0	6.2	6.2	6.0	49.7	56.5	54.8
Jackson .....	222.0	225.8	222.9	(2)	(2)	(2)	10.3	11.1	10.7
<b>Missouri</b> .....	2,594.0	2,737.1	2,648.5	4.5	5.0	4.8	109.9	133.3	119.5
Kansas City .....	915.9	969.4	950.4	(1)	(1)	(1)	41.8	49.4	46.7
St. Louis .....	1,279.7	1,326.6	1,281.8	(1)	(1)	(1)	59.4	71.1	61.6
Springfield .....	158.8	167.5	161.8	(1)	(1)	(1)	6.2	7.1	6.6
<b>Montana</b> .....	357.3	377.3	367.2	5.0	5.0	5.0	15.5	18.2	15.6
<b>Nebraska</b> .....	847.8	892.4	865.0	1.1	1.2	.9	35.3	41.6	37.6
Lincoln .....	142.6	151.5	147.0	(1)	(1)	(1)	5.9	6.9	6.4
Omaha .....	392.5	415.4	401.5	(1)	(1)	(1)	17.0	21.2	18.7
<b>Nevada</b> .....	886.7	951.6	936.0	13.6	13.1	13.0	77.0	86.7	83.4
Las Vegas .....	635.0	685.0	676.2	2.0	2.2	2.2	62.0	69.2	67.2
Reno .....	174.4	184.5	180.5	.6	.5	.5	11.0	13.2	12.6
<b>New Hampshire</b> .....	571.3	598.5	586.3	.3	.4	.4	20.1	24.0	21.9
Manchester .....	98.2	102.8	100.5	(1)	(1)	(1)	4.2	4.6	4.2
Nashua .....	91.8	95.6	92.8	(1)	(1)	(1)	2.7	3.2	2.9
Portsmouth-Rochester .....	112.3	118.8	114.9	(1)	(1)	(1)	3.3	3.9	3.9
<b>New Jersey</b> .....	3,695.9	3,865.8	3,765.2	1.8	2.0	1.9	119.8	137.7	124.9
Atlantic-Cape May .....	169.8	176.8	170.6	(1)	(1)	(1)	6.3	6.7	6.3
Bergen-Passaic .....	639.7	669.8	649.5	(1)	(1)	(1)	20.2	23.9	21.3
Camden .....	471.7	496.5	482.7	(1)	(1)	(1)	20.3	23.3	21.0
Jersey City .....	239.5	249.3	242.1	(1)	(1)	(1)	4.4	5.0	4.7
Middlesex-Somerset-Hunterdon ..	605.0	634.4	610.1	.4	.5	.5	17.1	19.7	17.6
Monmouth-Ocean .....	352.8	368.5	357.5	(1)	(1)	(1)	16.4	18.2	15.9
Newark .....	942.7	986.3	966.6	.7	.8	.7	28.2	33.4	31.6
Trenton .....	195.5	202.3	195.7	(1)	(1)	(1)	4.3	4.8	4.6
Vineyard-Millville-Bridgeton ..	57.9	59.7	58.9	.3	.3	.3	1.9	2.1	1.9
<b>New Mexico</b> .....	702.1	731.3	713.4	15.6	14.2	13.9	40.4	43.5	41.7
Albuquerque .....	330.8	343.3	335.1	(1)	(1)	(1)	20.6	21.5	20.7
Las Cruces .....	51.8	54.0	52.8	(1)	(1)	(1)	3.0	3.2	3.2
Santa Fe .....	69.3	72.8	71.1	(1)	(1)	(1)	3.2	3.5	3.3

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		
	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>Maryland</b> .....	176.6	177.6	175.3	106.0	110.8	109.4	525.8	550.8	529.5
Baltimore PMSA .....	99.8	100.7	99.9	56.7	58.2	57.7	265.3	277.3	266.3
Baltimore City .....	29.6	30.2	29.6	19.3	20.0	19.3	61.4	64.0	62.4
Suburban Maryland-D.C. ....	39.1	40.0	39.4	34.7	36.5	36.3	197.1	205.1	197.1
<b>Massachusetts</b> .....	452.2	440.6	437.7	133.8	137.2	135.4	695.2	748.8	712.3
Barnstable-Yarmouth .....	2.0	2.2	2.2	2.7	3.0	2.9	16.4	19.3	17.6
Boston .....	225.9	219.1	217.9	82.2	85.3	83.9	407.4	437.7	418.3
Brockton .....	10.6	10.7	10.5	4.8	4.8	4.7	31.0	33.3	32.2
Fitchburg-Leominster .....	13.5	13.6	13.4	2.1	2.1	2.1	11.9	13.1	12.4
Lawrence .....	39.6	37.3	37.3	5.1	5.4	5.4	34.2	36.6	35.3
Lowell .....	28.6	28.6	28.5	7.0	7.6	7.5	24.2	26.4	24.5
New Bedford .....	13.4	13.1	13.2	3.5	3.7	3.8	16.0	17.5	16.6
Pittsfield .....	7.4	7.5	7.4	1.3	1.3	1.3	10.1	10.9	10.4
Springfield .....	38.8	38.9	38.4	9.9	10.4	10.0	57.6	62.0	58.3
Worcester .....	41.7	40.9	40.8	9.5	9.7	9.4	50.1	54.4	51.6
<b>Michigan</b> .....	967.0	972.7	962.7	175.0	179.1	177.2	1,039.3	1,104.8	1,065.3
Ann Arbor .....	52.7	53.6	53.1	6.3	6.6	6.4	54.2	57.2	55.1
Benton Harbor .....	19.6	19.6	19.5	2.9	2.9	2.9	15.2	16.3	15.3
Detroit .....	441.0	443.5	435.5	95.7	96.2	95.5	487.6	523.9	503.2
Flint .....	41.0	39.4	39.1	5.7	5.9	5.8	43.4	46.0	43.6
Grand Rapids-Muskegon-Holland .....	156.8	160.5	159.5	18.9	19.9	19.2	136.8	146.5	140.8
Jackson .....	12.6	12.7	12.8	3.5	3.6	3.5	15.3	16.2	15.6
Kalamazoo-Battle Creek .....	49.1	49.2	49.4	7.2	7.5	7.3	45.0	48.2	45.8
Lansing-East Lansing .....	28.8	28.8	28.6	6.1	6.0	5.9	51.4	54.5	52.3
Saginaw-Bay City-Midland .....	39.7	40.2	40.1	7.2	7.2	7.1	43.8	47.4	44.0
<b>Minnesota</b> .....	437.2	443.2	438.6	126.7	131.8	129.4	594.8	635.8	608.5
Duluth-Superior .....	8.4	8.5	8.4	7.0	7.9	7.5	27.0	28.3	27.1
Minneapolis-St. Paul .....	275.7	281.4	278.4	90.6	95.0	94.4	383.1	413.2	394.8
Rochester .....	12.9	14.0	14.1	2.5	2.4	2.4	14.7	16.0	15.4
St. Cloud .....	15.9	15.8	15.7	3.3	3.4	3.4	25.2	27.0	25.8
<b>Mississippi</b> .....	242.2	245.7	243.4	52.8	53.7	53.5	238.2	247.7	240.8
Jackson .....	20.4	20.1	19.7	16.1	16.2	16.2	53.7	55.2	53.6
<b>Missouri</b> .....	417.4	421.1	418.9	164.9	167.1	165.5	615.3	651.9	622.8
Kansas City .....	107.2	108.5	108.8	75.7	81.9	78.1	225.4	239.7	231.5
St. Louis .....	195.7	195.2	193.9	83.0	82.9	82.1	303.9	319.1	308.1
Springfield .....	23.2	23.6	23.6	11.0	11.2	10.8	45.1	46.5	44.7
<b>Montana</b> .....	23.8	25.1	24.6	21.3	22.1	21.8	96.0	101.3	98.0
<b>Nebraska</b> .....	118.0	118.1	117.4	54.1	58.5	57.7	206.7	219.2	210.1
Lincoln .....	17.8	17.9	17.9	9.5	10.1	10.0	29.9	32.1	30.9
Omaha .....	39.2	40.0	39.8	28.6	30.7	30.1	94.7	102.3	97.7
<b>Nevada</b> .....	41.0	42.3	42.1	46.4	48.4	48.2	183.2	197.8	192.1
Las Vegas .....	22.4	22.7	22.8	33.3	34.7	34.9	132.9	144.2	140.5
Reno .....	13.4	13.8	13.8	11.7	11.9	11.6	40.1	42.6	41.3
<b>New Hampshire</b> .....	110.1	107.5	107.6	19.3	21.4	21.2	146.8	158.1	151.8
Manchester .....	14.8	15.1	15.1	5.5	6.1	5.9	24.2	25.5	24.9
Nashua .....	28.2	27.4	27.4	2.3	3.0	3.0	22.5	24.0	23.1
Portsmouth-Rochester .....	19.2	18.6	18.4	3.8	4.0	3.9	29.2	31.8	30.2
<b>New Jersey</b> .....	476.4	474.5	468.5	255.3	264.3	261.0	864.9	920.6	882.2
Atlantic-Cape May .....	6.1	6.3	6.2	7.0	6.8	6.7	32.5	35.6	32.7
Bergen-Passaic .....	105.3	104.8	103.3	35.7	37.4	36.6	175.6	185.2	175.5
Camden .....	55.0	54.9	54.6	22.1	23.3	23.0	124.9	134.3	128.9
Jersey City .....	26.6	27.0	26.3	29.3	30.3	29.3	57.0	59.9	57.7
Middlesex-Somerset-Hunterdon .....	93.2	92.6	91.9	48.5	49.0	44.4	142.7	151.2	144.8
Monmouth-Ocean .....	20.9	20.1	20.3	20.1	20.0	19.5	94.6	101.5	95.8
Newark .....	133.7	135.3	134.1	79.7	84.6	83.3	190.6	202.1	194.4
Trenton .....	18.6	16.9	16.6	7.2	7.2	7.2	32.1	34.5	32.4
Vineland-Millville-Bridgeton .....	12.6	12.6	12.5	2.7	2.7	2.6	11.5	12.0	11.8
<b>New Mexico</b> .....	45.4	44.1	43.2	33.0	34.7	34.2	165.7	174.8	168.7
Albuquerque .....	29.5	28.2	28.0	16.0	17.3	17.0	80.2	83.9	80.7
Las Cruces .....	2.6	2.9	2.8	2.0	2.2	2.2	10.7	11.2	10.5
Santa Fe .....	2.0	1.9	1.9	1.3	1.3	1.3	14.6	15.4	14.7

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	Finance, insurance, and real estate			Services			Government		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Maryland</b> .....	131.6	135.3	134.2	751.2	802.0	784.1	427.0	446.0	436.7
Baltimore PMSA .....	72.7	75.1	75.0	387.7	413.9	404.7	213.5	218.9	215.5
Baltimore City .....	33.1	34.7	35.2	150.0	158.8	154.9	88.0	86.7	86.7
Suburban Maryland-D.C. ....	50.1	51.4	51.2	286.9	304.8	298.4	165.5	177.2	172.3
<b>Massachusetts</b> .....	212.0	220.2	218.0	1,094.4	1,149.9	1,120.8	406.7	425.3	414.7
Barnstable-Yarmouth .....	2.9	2.9	2.8	17.2	18.9	18.0	7.4	7.8	7.7
Boston .....	158.7	166.1	164.3	742.1	773.3	756.1	229.8	237.7	234.2
Brockton .....	3.1	3.2	3.2	24.2	26.4	25.2	15.8	17.5	16.8
Fitchburg-Leominster .....	1.5	1.5	1.5	12.7	12.7	12.6	7.7	8.3	8.3
Lawrence .....	4.4	4.7	4.6	42.3	44.2	42.8	18.4	19.1	19.1
Lowell .....	3.3	3.4	3.4	32.1	35.3	34.5	15.2	16.2	15.8
New Bedford .....	1.7	1.7	1.8	16.6	17.9	17.8	9.9	10.2	10.0
Pittsfield .....	1.8	1.9	1.9	13.7	14.1	13.9	5.0	5.3	5.2
Springfield .....	12.8	13.0	12.9	75.9	79.2	76.8	44.7	46.8	45.9
Worcester .....	14.6	14.3	14.1	66.6	70.3	68.0	34.8	36.8	35.9
<b>Michigan</b> .....	207.5	208.4	208.4	1,202.6	1,257.9	1,235.1	655.5	680.7	657.8
Ann Arbor .....	9.9	10.1	10.0	64.2	67.7	66.1	70.6	75.3	70.9
Benton Harbor .....	2.3	2.4	2.4	18.7	19.5	19.0	8.4	9.0	8.4
Detroit .....	111.8	113.2	112.8	629.1	662.3	652.1	230.8	239.7	232.6
Flint .....	6.4	6.6	6.4	47.4	48.8	47.3	24.9	25.8	25.3
Grand Rapids-Muskegon-Holland .....	22.9	23.7	24.1	136.1	146.3	139.9	54.8	57.7	55.8
Jackson .....	1.9	1.9	1.9	14.2	14.9	14.5	9.9	10.6	10.2
Kalamazoo-Battle Creek .....	10.6	10.4	10.4	52.5	54.1	53.1	34.7	36.0	35.1
Lansing-East Lansing .....	13.8	14.3	14.4	55.8	58.0	56.7	67.6	67.8	60.8
Saginaw-Bay City-Midland .....	6.7	6.8	6.8	46.5	49.2	48.2	22.3	23.0	22.7
<b>Minnesota</b> .....	149.9	160.2	158.0	697.3	735.6	716.8	384.3	394.4	389.7
Duluth-Superior .....	3.3	3.5	3.4	31.7	33.9	33.3	23.7	23.9	23.7
Minneapolis-St. Paul .....	118.1	127.1	126.5	466.9	500.4	485.7	222.5	228.6	225.6
Rochester .....	2.3	2.3	2.3	33.4	34.6	34.3	7.2	7.2	7.2
St. Cloud .....	3.1	3.4	3.3	20.9	22.4	21.7	12.9	12.9	12.8
<b>Mississippi</b> .....	42.2	42.0	42.1	256.2	262.1	259.1	221.8	228.5	226.3
Jackson .....	16.0	16.3	16.5	58.4	59.3	58.3	46.1	46.6	46.9
<b>Missouri</b> .....	157.5	164.6	163.7	718.8	764.3	739.8	405.7	429.8	413.5
Kansas City .....	65.7	68.4	69.0	267.4	284.1	281.1	132.7	137.4	135.2
St. Louis .....	80.9	83.3	83.3	400.0	418.2	402.6	156.8	156.8	150.2
Springfield .....	7.2	7.6	7.6	47.2	49.9	48.8	18.9	21.6	19.7
<b>Montana</b> .....	16.5	17.3	17.2	101.0	107.5	105.5	78.2	80.8	79.5
<b>Nebraska</b> .....	55.3	58.7	58.4	226.6	243.0	234.5	150.7	152.1	148.4
Lincoln .....	9.4	10.1	10.0	38.1	41.0	40.0	32.0	33.4	31.8
Omaha .....	32.6	34.3	33.9	128.3	136.4	131.3	52.1	50.5	50.0
<b>Nevada</b> .....	41.9	44.9	44.7	375.9	401.9	399.5	107.7	116.5	113.0
Las Vegas .....	31.4	33.8	33.7	282.6	303.2	302.1	68.4	75.0	72.8
Reno .....	8.1	8.7	8.6	66.9	69.7	69.0	22.6	24.1	23.1
<b>New Hampshire</b> .....	30.7	31.4	31.4	165.3	173.6	173.0	78.7	82.1	79.0
Manchester .....	7.2	7.1	7.1	31.3	32.9	31.8	11.0	11.5	11.5
Nashua .....	5.1	5.6	5.6	22.5	24.0	22.5	8.5	8.4	8.3
Portsmouth-Rochester .....	6.4	6.6	6.8	29.7	32.0	30.6	20.7	21.9	21.1
<b>New Jersey</b> .....	244.0	250.7	250.4	1,164.7	1,237.1	1,210.4	569.0	578.9	565.9
Atlantic-Cape May .....	5.5	5.8	5.4	84.7	86.8	85.3	27.7	28.8	28.0
Bergen-Passaic .....	36.1	37.7	37.8	194.7	209.4	205.5	72.1	71.4	69.5
Camden .....	24.0	25.7	26.0	145.6	154.1	149.8	79.8	80.9	79.4
Jersey City .....	26.1	27.3	27.3	58.1	61.0	58.7	38.0	38.8	38.1
Middlesex-Somerset-Hunterdon .....	45.6	46.0	46.5	180.7	195.1	187.6	76.8	80.3	76.8
Monmouth-Ocean .....	18.3	18.6	18.8	118.8	126.3	124.5	63.7	63.8	62.7
Newark .....	73.3	74.9	74.4	295.6	311.0	305.2	140.9	144.2	142.9
Trenton .....	11.3	11.2	11.3	69.7	75.4	72.2	52.3	52.3	51.4
Vineland-Millville-Bridgeton .....	3.1	2.9	2.9	12.3	13.0	12.8	13.5	14.1	14.1
<b>New Mexico</b> .....	31.2	32.2	31.8	195.2	208.0	204.4	175.6	179.8	175.5
Albuquerque .....	16.6	17.2	17.0	104.0	108.6	107.4	63.9	66.6	64.3
Las Cruces .....	1.9	2.1	2.0	11.5	13.7	13.7	20.1	18.7	18.4
Santa Fe .....	3.3	3.5	3.5	20.6	22.0	21.5	24.3	25.2	24.9

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	Total			Mining			Construction		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>New York</b> .....	7,988.1	8,417.7	8,136.6	3.6	4.3	3.7	245.7	289.4	257.7
Albany-Schenectady-Troy .....	426.2	447.1	430.6	.4	.5	.4	13.6	16.2	14.1
Binghamton .....	111.4	118.1	114.1	(1)	(1)	(1)	3.2	4.0	3.4
Buffalo-Niagara Falls .....	532.6	554.6	534.6	(1)	(1)	(1)	16.6	19.1	16.6
Dutchess County .....	106.2	110.7	108.0	(1)	(1)	(1)	4.1	4.3	3.9
Elmira .....	42.6	45.0	43.3	(1)	(1)	(1)	1.5	2.0	1.6
Glens Falls .....	46.4	48.5	47.3	(1)	(1)	(1)	1.6	2.0	1.7
Nassau-Suffolk .....	1,107.9	1,184.2	1,133.8	(1)	(1)	(1)	45.8	55.6	50.1
New York PMSA .....	3,943.2	4,158.2	4,030.4	(1)	(1)	(1)	114.5	133.7	120.7
New York City .....	3,436.2	3,622.0	3,517.4	.3	.3	.3	90.9	105.6	96.5
Newburgh .....	119.6	124.4	121.0	(1)	(1)	(1)	4.0	4.3	3.8
Rochester .....	525.7	545.0	528.0	.3	.3	.3	16.2	18.6	16.7
Rockland County .....	100.0	107.7	104.1	(1)	(1)	(1)	4.1	4.9	4.4
Syracuse .....	330.1	347.3	335.3	(1)	(1)	(1)	11.2	13.0	11.1
Utica-Rome .....	126.7	131.0	127.8	(1)	(1)	(1)	2.7	3.3	2.9
Westchester County .....	386.5	406.7	390.3	(1)	(1)	(1)	17.8	21.2	18.6
<b>North Carolina</b> .....	3,658.0	3,865.6	3,794.4	3.9	4.0	3.9	200.6	219.7	213.9
Asheville .....	106.6	113.7	111.6	(1)	(1)	(1)	5.5	6.7	6.4
Charlotte-Gastonia-Rock Hill .....	754.2	791.8	778.3	(1)	(1)	(1)	46.3	49.5	48.6
Greensboro-Winston-Salem--High Point .....	628.6	660.4	651.3	(1)	(1)	(1)	30.7	34.4	33.7
Raleigh-Durham-Chapel Hill .....	624.2	677.8	663.9	(1)	(1)	(1)	33.8	39.7	39.6
<b>North Dakota</b> .....	311.6	321.0	313.8	3.8	4.0	3.7	12.0	13.8	11.9
Bismarck .....	47.9	50.4	49.2	(1)	(1)	(1)	2.1	2.6	2.1
Fargo-Moorhead .....	96.4	100.7	98.3	(1)	(1)	(1)	4.4	5.1	4.5
Grand Forks .....	47.5	49.2	47.6	(1)	(1)	(1)	2.6	2.9	2.5
<b>Ohio</b> .....	5,336.2	5,557.9	5,381.5	12.9	13.1	12.6	198.3	225.7	199.4
Akron .....	316.9	329.3	321.2	.5	.5	.5	11.6	13.4	12.0
Canton-Massillon .....	178.7	186.9	181.2	.6	.5	.5	8.0	9.3	8.2
Cincinnati .....	834.9	881.3	858.1	.7	.7	.7	35.6	38.6	35.9
Cleveland-Lorain-Elyria .....	1,123.4	1,166.8	1,140.5	.9	1.0	.9	38.7	44.2	39.2
Columbus .....	816.7	849.9	827.3	.6	.6	.6	31.2	36.2	32.4
Dayton-Springfield .....	471.1	482.5	468.6	.3	.3	.3	15.8	17.2	16.0
Hamilton-Middletown .....	119.5	125.3	121.4	(1)	(1)	(1)	6.0	7.7	6.7
Lima .....	76.5	78.1	76.4	(1)	(1)	(1)	3.5	4.1	3.7
Mansfield .....	79.1	81.0	78.9	(1)	(1)	(1)	2.4	2.6	2.4
Steubenville-Weirton .....	50.2	51.5	49.6	.4	.4	.4	1.6	1.7	1.4
Toledo .....	314.8	330.4	318.9	.1	.2	.2	13.4	15.6	14.0
Youngstown-Warren .....	241.8	250.1	243.5	.5	.4	.4	8.8	10.5	9.4
<b>Oklahoma</b> .....	1,404.0	1,465.9	1,439.3	32.5	31.0	30.6	50.1	55.1	53.3
Enid .....	24.3	24.6	24.6	.8	.8	.8	1.1	1.0	1.0
Lawton .....	37.5	38.5	38.0	.1	.1	.1	1.2	1.4	1.4
Oklahoma City .....	501.0	522.6	514.5	7.4	6.9	7.0	18.5	19.6	19.4
Tulsa .....	380.1	401.7	396.7	7.7	7.8	7.9	14.6	16.3	15.9
<b>Oregon</b> .....	1,510.2	1,581.7	1,546.3	1.7	1.7	1.8	75.6	82.9	79.3
Eugene-Springfield .....	135.9	143.7	140.1	.2	.2	.2	6.8	7.2	6.8
Medford-Ashland .....	67.1	73.6	69.3	.1	.1	.1	3.0	3.3	3.2
Portland-Vancouver .....	917.1	957.6	936.8	1.0	1.2	1.2	50.9	55.3	52.5
Salem .....	129.0	135.6	131.5	.3	.2	.2	7.0	8.1	7.5
<b>Pennsylvania</b> .....	5,360.5	5,577.9	5,427.8	19.8	20.9	20.1	191.7	219.6	200.1
Allentown-Bethlehem-Easton .....	266.7	277.7	272.9	(1)	(1)	(1)	9.7	10.8	10.2
Altoona .....	57.2	59.9	59.1	(1)	(1)	(1)	2.2	2.6	2.5
Erie .....	128.2	132.6	129.9	(1)	(1)	(1)	3.9	4.5	4.1
Harrisburg-Lebanon-Carlisle .....	348.7	363.3	356.1	(1)	(1)	(1)	13.0	13.6	13.1
Johnstown .....	85.3	88.7	87.1	(1)	(1)	(1)	3.8	4.3	3.8
Lancaster .....	209.8	221.2	215.4	.4	.4	.4	11.5	13.0	12.6
Philadelphia PMSA .....	2,264.6	2,360.6	2,294.4	(1)	(1)	(1)	81.1	92.1	86.3
Philadelphia City .....	662.6	685.4	667.3	(1)	(1)	(1)	9.9	9.9	8.7
Pittsburgh .....	1,062.2	1,109.4	1,080.7	4.6	4.2	4.2	42.5	49.2	44.9
Reading .....	163.6	168.9	165.3	(1)	(1)	(1)	6.6	6.9	6.4
Scranton--Wilkes-Barre--Hazleton .....	270.2	283.2	273.9	.4	.4	.4	8.7	10.6	9.0
Sharon .....	47.4	49.9	48.1	(1)	(1)	(1)	1.2	1.5	1.3
State College .....	65.3	69.9	66.4	(1)	(1)	(1)	2.0	2.1	1.9
Williamsport .....	52.6	54.2	53.2	(1)	(1)	(1)	1.9	2.1	1.9
York .....	161.7	166.4	162.9	.4	.4	.4	7.8	8.5	7.8

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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>New York</b> .....	906.5	916.8	899.3	406.5	417.8	410.2	1,624.9	1,736.6	1,645.5
Albany-Schenectady-Troy .....	39.1	38.9	38.6	17.3	17.6	17.4	89.8	95.9	90.8
Binghamton .....	24.4	25.3	25.1	4.9	5.1	5.0	24.5	25.9	24.7
Buffalo-Niagara Falls .....	88.6	89.8	88.1	24.9	26.2	25.5	127.6	135.2	127.8
Dutchess County .....	17.5	18.1	18.0	3.9	4.1	4.1	20.3	21.3	20.2
Elmira .....	9.7	9.9	9.6	1.5	1.6	1.5	10.1	10.9	10.4
Glens Falls .....	8.0	8.0	7.9	1.3	1.4	1.3	10.6	11.3	11.0
Nassau-Suffolk .....	112.6	115.8	113.3	51.3	53.9	52.1	288.5	307.4	291.2
New York PMSA .....	305.2	314.8	302.5	232.0	237.3	232.8	689.0	738.3	700.8
New York City .....	253.8	262.4	250.6	204.3	209.7	205.9	576.3	616.4	585.7
Newburgh .....	12.0	12.1	12.0	6.8	7.3	7.2	32.8	35.4	33.9
Rochester .....	125.9	122.8	121.4	16.9	17.8	17.4	111.7	116.9	112.3
Rockland County .....	11.9	11.9	11.9	6.1	5.9	5.8	22.4	26.2	24.6
Syracuse .....	49.4	50.8	50.5	19.3	19.9	19.7	76.1	80.3	76.5
Utica-Rome .....	19.9	20.3	20.3	3.8	3.7	3.7	25.5	26.7	25.5
Westchester County .....	37.6	38.5	38.0	20.9	20.9	20.4	86.2	91.2	86.4
<b>North Carolina</b> .....	823.5	821.5	813.6	168.8	175.2	173.4	819.6	889.2	861.6
Asheville .....	19.3	19.4	19.3	4.7	4.9	4.8	26.5	28.2	27.6
Charlotte-Gastonia-Rock Hill .....	143.0	139.9	139.8	51.6	50.3	49.1	178.1	189.2	181.6
Greensboro-Winston-Salem--High Point .....	161.0	163.3	162.2	33.7	36.1	35.8	141.5	149.5	145.8
Raleigh-Durham-Chapel Hill .....	83.0	84.8	84.5	27.3	29.4	29.0	131.2	143.9	139.3
<b>North Dakota</b> .....	23.9	24.1	23.6	17.9	17.9	17.7	79.3	82.3	79.8
Bismarck .....	2.6	2.7	2.6	3.0	3.2	3.1	11.9	12.3	11.9
Fargo-Moorhead .....	8.0	7.9	7.6	5.1	5.1	5.0	27.4	28.5	27.9
Grand Forks .....	3.6	4.0	4.0	2.2	2.2	2.1	12.7	13.6	13.0
<b>Ohio</b> .....	1,094.1	1,097.0	1,089.2	235.5	244.5	240.3	1,293.9	1,372.3	1,309.7
Akron .....	65.2	65.3	64.9	14.7	14.9	14.7	79.0	82.2	80.4
Canton-Massillon .....	46.6	47.7	47.1	5.1	5.2	5.0	44.2	45.9	44.3
Cincinnati .....	140.6	144.2	142.9	45.6	48.7	47.8	214.9	230.5	220.4
Cleveland-Lorain-Elyria .....	221.0	222.4	221.0	45.2	47.2	46.3	268.0	281.4	271.9
Columbus .....	93.4	93.3	92.8	37.1	38.2	37.8	214.1	223.7	213.3
Dayton-Springfield .....	101.1	99.9	98.2	21.2	21.3	21.2	107.7	113.2	108.8
Hamilton-Middletown .....	22.0	21.8	22.0	4.7	4.8	4.6	32.5	33.3	32.4
Lima .....	19.5	19.8	19.6	3.0	3.3	3.3	18.1	18.4	17.8
Mansfield .....	23.1	23.2	23.2	3.5	3.4	3.4	17.8	18.4	17.7
Steubenville-Weirton .....	13.5	13.1	12.6	2.6	2.8	2.8	10.5	11.2	11.0
Toledo .....	61.6	60.0	59.8	14.2	14.8	15.0	77.7	82.7	79.1
Youngstown-Warren .....	57.5	56.1	55.8	10.3	11.1	10.9	61.3	63.8	62.2
<b>Oklahoma</b> .....	184.6	186.2	186.3	80.8	83.8	83.5	323.0	340.7	329.4
Enid .....	2.2	2.3	2.3	2.1	2.2	2.2	6.0	6.3	6.1
Lawton .....	3.6	3.8	3.8	1.6	1.6	1.6	8.8	9.1	8.9
Oklahoma City .....	54.7	55.1	54.9	23.6	24.2	24.1	117.8	124.4	120.2
Tulsa .....	58.0	58.1	58.3	31.3	33.7	33.7	88.9	94.9	91.7
<b>Oregon</b> .....	241.4	238.1	237.0	75.4	77.4	77.4	372.0	397.1	379.8
Eugene-Springfield .....	21.6	22.0	22.2	4.5	4.4	4.4	33.7	36.6	34.6
Medford-Ashland .....	9.3	9.0	8.8	3.3	3.5	3.5	19.6	23.5	20.0
Portland-Vancouver .....	149.4	145.1	143.9	53.4	55.5	54.8	227.7	240.9	232.1
Salem .....	16.4	16.3	15.8	3.7	3.8	3.6	27.7	29.4	28.1
<b>Pennsylvania</b> .....	940.0	938.5	931.8	282.9	290.7	288.2	1,204.7	1,271.6	1,224.5
Allentown-Bethlehem-Easton .....	57.2	56.1	55.8	15.7	16.1	15.9	57.2	61.0	59.1
Altoona .....	10.1	10.2	10.1	4.3	4.5	4.7	15.5	16.2	15.8
Erie .....	34.2	34.6	34.2	4.7	4.8	4.7	28.4	29.8	28.4
Harrisburg-Lebanon-Carlisle .....	46.4	47.3	47.1	23.3	24.6	24.2	78.4	83.0	80.3
Johnstown .....	12.8	12.9	13.0	5.3	5.3	5.1	19.4	21.3	20.5
Lancaster .....	56.7	57.5	56.9	7.8	8.2	8.0	52.6	55.5	53.7
Philadelphia PMSA .....	305.2	305.2	301.7	109.0	112.5	110.8	499.7	528.5	505.3
Philadelphia City .....	57.5	57.3	57.0	33.6	34.8	35.8	110.0	116.0	111.1
Pittsburgh .....	139.0	140.7	140.1	67.1	69.2	68.4	252.4	268.0	255.1
Reading .....	44.4	42.3	42.2	8.3	9.0	8.9	38.2	39.7	38.2
Scranton-Wilkes-Barre--Hazleton .....	54.5	55.7	55.4	15.9	16.4	16.2	64.8	68.7	65.3
Sharon .....	11.8	12.0	11.9	2.0	1.9	1.8	12.3	12.9	12.4
State College .....	8.8	9.1	8.9	2.0	2.1	2.1	12.2	13.4	12.6
Williamsport .....	13.1	13.5	13.6	2.0	2.2	2.2	13.0	13.4	13.0
York .....	48.2	47.3	47.1	8.1	8.6	8.5	38.9	41.4	40.1

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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>New York</b> .....	723.8	743.5	732.1	2,685.2	2,870.1	2,786.0	1,391.9	1,439.3	1,402.2
Albany-Schenectady-Troy .....	25.4	25.9	25.7	133.6	141.9	136.5	107.0	110.1	107.1
Binghamton .....	3.7	3.8	3.8	28.8	31.3	30.2	21.7	22.7	21.8
Buffalo-Niagara Falls .....	29.2	29.6	29.4	159.9	165.8	160.9	85.7	88.9	86.2
Dutchess County .....	4.5	4.7	4.7	33.8	35.1	34.3	22.1	23.0	22.8
Elmira .....	1.2	1.3	1.2	11.4	11.9	11.7	7.2	7.4	7.3
Glens Falls .....	2.0	2.3	2.3	13.1	13.1	13.0	9.8	10.5	10.1
Nassau-Suffolk .....	77.3	79.6	78.1	355.2	383.5	367.9	177.2	188.4	181.1
New York PMSA .....	509.5	524.9	516.1	1,460.1	1,563.9	1,524.5	632.9	645.4	633.0
New York City .....	476.3	491.3	483.1	1,283.4	1,375.4	1,345.0	550.9	561.0	550.3
Newburgh .....	5.5	5.6	5.6	31.4	32.7	32.0	27.2	27.1	26.4
Rochester .....	20.8	20.8	20.4	155.6	165.3	160.5	78.3	82.4	79.0
Rockland County .....	5.0	5.1	5.0	31.6	34.4	33.4	19.0	19.3	18.9
Syracuse .....	17.7	17.8	17.8	96.3	102.1	98.1	60.0	63.4	61.5
Utica-Rome .....	8.1	8.3	8.2	39.0	40.3	39.8	27.6	28.4	27.5
Westchester County .....	26.7	27.0	26.4	138.7	147.2	141.1	58.7	60.8	59.5
<b>North Carolina</b> .....	170.0	182.6	181.1	882.1	960.5	943.7	589.5	612.9	603.2
Asheville .....	3.3	3.7	3.7	31.4	34.1	33.2	15.9	16.7	16.6
Charlotte-Gastonia-Rock Hill .....	55.4	62.2	61.9	188.8	205.7	203.7	91.0	95.0	93.6
Greensboro-Winston-Salem-High Point .....	32.8	34.8	34.6	160.8	171.4	169.6	68.1	70.9	69.6
Raleigh-Durham-Chapel Hill .....	29.2	30.6	30.6	195.8	218.0	212.5	123.9	131.4	128.4
<b>North Dakota</b> .....	15.2	16.0	16.0	87.5	90.5	89.4	72.0	72.4	71.7
Bismarck .....	2.3	2.5	2.5	15.6	16.2	16.0	10.4	10.9	11.0
Fargo-Moorhead .....	6.6	7.0	6.9	29.5	31.2	30.6	15.4	15.9	15.8
Grand Forks .....	1.5	1.4	1.4	12.2	11.9	12.0	12.7	13.2	12.6
<b>Ohio</b> .....	291.5	302.1	299.7	1,451.2	1,518.8	1,472.1	758.8	784.4	758.5
Akron .....	13.0	13.2	13.3	84.9	89.1	87.1	48.0	50.7	48.3
Canton-Massillon .....	6.1	6.3	6.3	48.8	51.2	50.1	19.3	20.8	19.7
Cincinnati .....	54.3	55.9	56.2	244.5	258.6	252.6	98.7	104.1	101.6
Cleveland-Lorain-Elyria .....	73.6	76.3	75.8	334.2	347.9	341.9	141.8	146.4	143.5
Columbus .....	73.5	75.9	75.7	229.0	242.4	236.7	137.8	139.6	138.0
Dayton-Springfield .....	18.2	19.3	18.9	136.5	139.4	136.5	70.3	71.9	68.7
Hamilton-Middletown .....	6.3	6.8	6.8	27.5	29.8	28.8	20.5	21.1	20.1
Lima .....	2.1	2.0	2.0	19.9	20.0	19.6	10.4	10.5	10.4
Manfield .....	2.7	2.5	2.5	19.4	19.8	19.1	10.2	11.1	10.6
Steubenville-Weirton .....	1.5	1.4	1.4	13.6	14.6	13.9	6.5	6.3	6.1
Toledo .....	11.1	11.4	11.2	89.4	95.4	91.6	47.3	50.3	48.0
Youngstown-Warren .....	9.3	9.3	9.2	63.1	66.3	64.2	31.0	32.6	31.4
<b>Oklahoma</b> .....	70.7	75.0	74.8	386.8	408.9	404.0	275.5	285.2	277.4
Enid .....	1.0	1.1	1.1	7.1	6.8	7.0	4.0	4.1	4.1
Lawton .....	1.8	1.8	1.7	8.4	8.4	8.4	12.0	12.3	12.1
Oklahoma City .....	28.9	30.3	30.4	149.1	157.4	155.1	101.0	104.7	103.4
Tulsa .....	20.6	21.9	21.8	116.9	124.7	123.7	42.1	44.3	43.7
<b>Oregon</b> .....	93.5	95.5	95.1	398.0	423.6	415.3	252.6	265.4	260.6
Eugene-Springfield .....	7.1	7.4	7.3	36.7	39.1	38.7	25.3	26.8	25.9
Medford-Ashtland .....	3.0	3.1	3.0	18.1	19.5	19.5	10.7	11.6	11.2
Portland-Vancouver .....	66.2	68.1	67.9	251.4	267.8	262.1	117.1	123.7	122.3
Salem .....	6.5	6.8	6.7	30.5	32.2	31.0	36.9	38.8	38.6
<b>Pennsylvania</b> .....	312.8	319.4	317.7	1,706.9	1,793.8	1,744.4	701.7	723.4	701.0
Allentown-Bethlehem-Easton .....	13.4	14.2	14.2	83.0	87.5	86.5	30.5	32.0	31.2
Altoona .....	1.6	1.6	1.6	15.6	16.3	16.3	7.9	8.5	8.1
Erie .....	5.4	5.4	5.5	36.0	37.8	37.6	15.6	15.7	15.4
Harrisburg-Lebanon-Carlisle .....	24.9	25.6	25.3	96.3	101.9	99.6	66.4	67.3	66.5
Johnstown .....	4.2	4.2	4.2	25.9	26.6	26.5	13.9	14.1	14.0
Lancaster .....	9.4	9.8	9.8	53.5	57.9	56.3	17.9	18.9	17.7
Philadelphia PMSA .....	159.4	162.8	161.7	815.4	863.2	835.7	294.8	296.3	292.9
Philadelphia City .....	52.4	51.7	51.5	282.2	301.9	290.1	117.0	113.8	113.1
Pittsburgh .....	63.6	64.9	64.8	370.2	386.6	380.1	122.8	126.6	123.1
Reading .....	8.2	8.5	8.6	39.7	42.3	42.0	18.2	20.2	19.0
Scranton-Wilkes-Barre-Hazleton .....	13.7	14.1	13.9	77.7	81.4	78.8	34.5	35.9	34.9
Sharon .....	1.5	1.5	1.5	13.0	14.5	13.6	5.6	5.6	5.6
State College .....	2.0	2.0	2.1	14.0	14.3	14.0	24.3	26.9	24.8
Williamsport .....	2.1	2.1	2.1	14.3	14.7	14.3	6.2	6.2	6.1
York .....	5.1	5.1	5.1	37.0	38.4	37.5	16.2	16.7	16.4

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	Total			Mining			Construction		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Rhode Island</b> .....	442.2	467.0	449.5	.1	.2	.1	13.1	15.6	13.9
Providence-Fall River-Warwick .....	502.8	528.4	511.8	.2	.2	.2	14.6	17.9	16.0
<b>South Carolina</b> .....	1,730.2	1,819.2	1,785.5	1.7	1.8	1.8	100.0	109.1	106.7
Charleston-North Charleston .....	223.7	239.7	235.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.3	17.7	17.6
Columbia .....	283.0	297.6	294.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.2	16.5	16.3
Greenville-Spartanburg-Anderson .....	460.8	476.1	469.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.5	31.5	31.1
<b>South Dakota</b> .....	349.3	364.8	356.3	1.9	1.6	1.5	13.3	15.4	13.9
Rapid City .....	45.8	48.1	47.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.8	2.6
Sioux Falls .....	101.9	107.8	105.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.9	4.6
<b>Tennessee</b> .....	2,563.5	2,681.8	2,614.7	4.3	4.2	4.1	112.2	126.5	120.3
Chattanooga .....	215.6	221.3	216.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.5	9.5	9.2
Johnson City-Kingsport-Bristol .....	193.4	197.9	195.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.2	11.0	10.8
Knoxville .....	312.0	324.9	315.8	.6	.6	.6	15.2	16.0	15.6
Memphis .....	556.3	596.9	586.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	23.5	27.9	27.4
Nashville .....	635.1	661.8	649.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	30.1	33.1	32.2
<b>Texas</b> .....	8,691.3	9,127.2	8,988.2	169.3	162.3	160.6	460.0	507.8	499.8
Abilene .....	56.3	58.6	57.6	1.6	1.3	1.2	2.2	2.3	2.3
Amarillo .....	94.0	97.8	96.2	.7	.6	.6	4.2	4.4	4.3
Austin-San Marcos .....	577.4	612.6	604.7	1.3	1.3	1.2	30.8	34.0	33.6
Beaumont-Port Arthur .....	157.3	164.4	162.0	.8	.9	.9	14.5	16.5	16.3
Brazoria .....	74.0	75.7	74.3	1.4	1.5	1.5	10.6	10.9	10.7
Brownsville-Harlingen-San Benito .....	98.0	100.6	99.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	4.0	4.0
Bryan-College Station .....	68.4	75.0	71.9	.9	.8	.8	2.6	3.1	3.1
Corpus Christi .....	153.9	158.2	156.5	2.5	2.2	2.2	12.6	11.4	11.5
Dallas .....	1,778.2	1,873.6	1,847.1	11.3	11.8	11.6	81.5	92.3	90.2
El Paso .....	243.4	249.1	243.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.4	11.6	11.4
Ft. Worth-Arlington .....	716.5	754.9	742.6	4.5	4.6	4.4	34.8	39.5	38.5
Galveston-Texas City .....	87.3	89.8	88.8	.8	.8	.8	4.4	4.2	4.3
Houston .....	1,928.1	2,025.3	1,993.9	69.2	68.1	67.6	128.9	140.4	138.4
Killeen-Temple .....	97.6	101.0	99.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.2	4.2
Laredo .....	62.6	65.6	65.2	3.4	1.8	1.8	2.1	2.3	2.3
Longview-Marshall .....	88.9	91.9	90.2	3.5	3.4	3.4	3.6	4.2	4.0
Lubbock .....	113.6	117.8	116.6	.1	.1	.1	4.0	4.2	4.2
McAllen-Edinburg-Mission .....	138.0	142.6	142.5	1.2	1.2	1.2	6.8	6.9	7.0
Odessa-Midland .....	105.9	106.9	105.0	13.9	12.4	12.0	6.0	7.6	7.4
San Angelo .....	43.5	44.9	44.2	.6	.6	.5	1.9	2.0	2.0
San Antonio .....	666.0	694.4	684.8	1.8	1.8	1.8	33.9	36.2	36.3
Sherman-Denison .....	44.0	45.1	44.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.4	2.5
Texarkana .....	50.3	51.8	50.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.1	2.0
Tyler .....	77.2	81.5	80.4	1.6	1.6	1.6	2.9	3.2	3.2
Victoria .....	35.7	36.3	35.9	1.8	1.7	1.7	2.3	2.4	2.4
Waco .....	95.4	98.6	97.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.8	4.8
Wichita Falls .....	59.5	60.9	59.9	1.1	1.1	1.0	2.3	2.5	2.5
<b>Utah</b> .....	992.6	1,049.3	1,022.2	8.3	7.7	7.9	59.5	70.1	64.9
Provo-Orem .....	136.3	144.1	141.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	9.4	9.0
Salt Lake City-Ogden .....	666.7	704.9	690.8	3.0	2.8	2.8	39.6	44.7	43.3
<b>Vermont</b> .....	278.5	294.0	286.2	.5	.6	.3	11.5	14.5	13.4
Barre-Montpelier .....	30.2	31.5	30.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.5	1.2
Burlington .....	97.5	103.3	99.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	5.6	5.1
<b>Virginia</b> .....	3,215.0	3,379.4	3,301.8	10.8	10.6	10.3	176.4	192.9	183.8
Bristol .....	37.0	39.4	38.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.6	1.5
Charlottesville .....	78.7	85.3	82.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	4.4	4.1
Danville .....	45.8	46.4	45.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.6	2.4
Lynchburg .....	96.0	100.3	98.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	6.0	5.7
Norfolk-Virginia Beach-Newport News .....	658.8	689.1	671.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	38.6	40.1	39.1
Northern Virginia .....	999.7	1,065.1	1,044.2	.7	.8	.8	53.8	61.2	58.1
Richmond-Petersburg .....	525.1	544.6	535.5	.7	.8	.8	31.6	33.4	32.3
Roanoke .....	140.9	147.5	145.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.0	9.0	8.6
<b>Washington</b> .....	2,508.0	2,637.3	2,574.0	3.1	3.3	3.3	127.6	141.8	134.8
Seattle-Bellevue-Everett .....	1,308.6	1,377.7	1,343.7	.6	.7	.7	65.4	73.6	70.1
Spokane .....	182.7	190.2	184.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	9.9	9.1
Tacoma .....	227.7	240.5	239.0	.2	.2	.2	11.7	13.9	13.4

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		
	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>Rhode Island</b> .....	78.9	78.9	77.6	15.5	16.2	15.9	94.4	102.7	96.6
Providence-Fall River-Warwick .....	101.4	103.2	101.7	17.8	18.9	18.5	113.1	122.1	115.5
<b>South Carolina</b> .....	361.9	364.8	363.7	75.6	78.7	77.9	408.6	444.3	425.7
Charleston-North Charleston .....	21.8	22.3	22.3	12.5	13.0	12.8	54.2	60.3	57.7
Columbia .....	26.0	26.4	26.3	12.4	13.3	13.2	65.5	69.5	67.3
Greenville-Spartanburg-Anderson .....	121.9	121.1	120.6	20.4	20.9	20.8	117.0	123.4	120.1
<b>South Dakota</b> .....	49.0	50.0	49.7	16.0	17.1	16.6	86.7	90.4	87.8
Rapid City .....	4.5	4.8	4.8	1.9	2.0	2.0	13.3	13.6	13.2
Sioux Falls .....	14.1	14.7	14.7	6.5	7.0	6.8	26.2	27.0	26.3
<b>Tennessee</b> .....	516.8	511.0	509.6	153.4	159.2	158.3	602.9	647.5	615.4
Chattanooga .....	42.9	44.4	44.3	11.0	11.6	11.6	48.4	49.7	47.4
Johnson City-Kingsport-Bristol .....	50.9	48.9	48.4	7.7	7.8	7.8	43.8	46.1	45.5
Knoxville .....	49.1	47.3	47.2	14.0	14.2	14.2	82.7	88.4	83.8
Memphis .....	63.0	63.0	62.8	65.5	71.9	70.2	140.8	151.0	146.4
Nashville .....	96.2	95.4	95.2	31.9	32.5	32.1	155.1	164.8	159.6
<b>Texas</b> .....	1,097.5	1,108.2	1,100.7	526.4	556.2	551.6	2,057.7	2,171.6	2,103.9
Abilene .....	3.4	3.5	3.5	2.5	2.6	2.5	14.5	15.9	15.6
Amarillo .....	9.3	9.5	9.4	5.4	5.4	5.3	26.4	27.8	27.0
Austin-San Marcos .....	80.2	82.0	81.4	19.1	20.6	20.5	123.3	134.3	130.8
Beaumont-Port Arthur .....	25.1	26.4	25.8	8.3	8.1	8.0	35.6	38.0	36.9
Brazoria .....	15.8	15.3	15.2	2.8	2.7	2.7	14.3	15.4	15.0
Brownsville-Harlingen-San Benito .....	12.0	12.1	11.9	4.7	4.7	4.6	23.4	24.3	23.8
Bryan-College Station .....	4.3	4.7	4.7	1.5	1.6	1.6	14.4	15.8	15.0
Corpus Christi .....	13.2	13.4	13.4	6.6	6.6	6.6	35.2	36.6	35.7
Dallas .....	248.3	253.2	252.0	120.8	128.9	127.2	435.5	457.5	446.5
El Paso .....	43.1	41.5	41.0	13.5	14.3	14.1	57.0	60.3	58.0
Ft. Worth-Arlington .....	110.4	112.0	111.8	67.4	71.7	71.4	181.4	192.5	185.3
Galveston-Texas City .....	8.1	8.3	8.3	3.9	4.1	4.0	19.2	20.0	19.4
Houston .....	216.7	219.2	217.7	136.2	143.7	142.6	439.6	468.5	452.8
Killeen-Temple .....	9.2	9.4	9.4	3.5	3.4	3.4	22.4	23.9	23.1
Laredo .....	1.6	1.8	1.7	10.6	11.4	11.5	16.5	17.7	17.3
Longview-Marshall .....	19.2	19.8	19.5	4.3	4.1	4.0	22.4	23.6	22.9
Lubbock .....	7.5	7.8	7.7	5.7	5.8	5.8	31.5	33.2	32.4
McAllen-Edinburg-Mission .....	13.0	12.8	12.7	5.0	5.2	5.2	38.2	39.6	39.1
Odessa-Midland .....	7.4	7.1	7.0	4.3	4.0	3.9	27.9	28.5	27.7
San Angelo .....	5.2	4.8	4.8	2.7	2.9	3.0	10.0	10.4	10.0
San Antonio .....	50.7	52.7	52.2	32.0	32.7	32.6	161.8	169.8	164.7
Sherman-Denison .....	10.9	10.1	10.1	1.6	1.7	1.7	9.6	10.1	9.8
Texarkana .....	5.6	5.5	5.4	2.5	2.8	2.8	13.3	14.1	13.6
Tyler .....	11.0	10.8	10.8	3.8	3.9	3.8	19.4	21.9	21.2
Victoria .....	3.2	3.2	3.2	1.6	1.6	1.6	9.5	9.9	9.7
Waco .....	16.0	16.4	16.3	4.0	3.9	3.9	21.7	23.0	22.0
Wichita Falls .....	8.6	8.7	8.7	3.0	3.0	3.0	13.7	14.4	14.0
<b>Utah</b> .....	133.3	135.0	134.0	56.7	60.4	59.1	238.0	251.1	240.8
Provo-Orem .....	19.6	20.4	20.0	2.2	2.3	2.2	30.8	32.8	31.7
Salt Lake City-Ogden .....	82.4	83.4	81.9	45.0	47.1	46.2	163.2	174.9	168.0
<b>Vermont</b> .....	47.2	49.1	48.4	12.4	12.5	12.4	64.0	67.0	64.5
Barre-Montpelier .....	3.1	3.7	3.3	1.1	1.2	1.2	6.6	6.9	6.7
Burlington .....	18.4	19.2	18.9	4.7	4.8	4.7	21.8	22.5	21.5
<b>Virginia</b> .....	406.3	403.4	401.5	167.9	177.2	173.8	711.0	763.2	728.3
Bristol .....	9.4	9.1	9.1	1.4	1.3	1.3	10.3	11.4	11.0
Charlottesville .....	8.2	8.6	8.6	2.3	2.4	2.4	15.9	17.3	16.1
Danville .....	15.2	15.2	15.1	1.0	1.0	1.0	9.5	10.0	9.3
Lynchburg .....	25.5	25.3	25.1	3.5	3.5	3.5	20.5	21.2	20.0
Norfolk-Virginia Beach-Newport News .....	70.2	71.0	70.4	31.3	31.5	31.0	152.4	166.1	156.5
Northern Virginia .....	44.2	44.1	44.1	61.6	66.6	66.3	211.7	227.6	217.4
Richmond-Petersburg .....	61.8	60.4	60.1	27.6	29.1	28.7	122.0	130.7	126.5
Roanoke .....	19.1	18.7	18.7	8.6	9.1	8.9	36.2	38.2	37.3
<b>Washington</b> .....	374.7	372.8	367.5	131.8	139.8	137.7	600.1	648.5	621.3
Seattle-Bellevue-Everett .....	226.5	227.0	225.1	78.2	81.7	80.9	306.1	329.6	312.7
Spokane .....	22.1	19.6	19.3	7.8	8.2	8.0	46.8	50.0	48.2
Tacoma .....	25.5	24.8	24.8	8.9	9.1	9.1	56.4	61.0	61.4

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	Finance, insurance, and real estate			Services			Government		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>Rhode Island</b> .....	27.0	29.2	28.9	149.4	159.0	152.0	63.8	65.2	64.5
Providence-Fall River-Warwick .....	29.0	31.5	31.1	161.2	167.8	162.9	65.5	66.8	65.9
<b>South Carolina</b> .....	76.4	81.3	80.8	398.5	422.4	416.7	307.5	316.8	312.2
Charleston-North Charleston .....	8.4	8.6	8.3	61.0	66.1	65.9	49.5	51.7	50.9
Columbia .....	20.6	22.3	22.2	68.8	73.9	73.8	74.5	75.7	74.9
Greenville-Spartanburg-Anderson .....	16.4	16.4	16.4	97.3	103.3	101.8	58.3	59.5	58.7
<b>South Dakota</b> .....	21.4	23.3	23.2	90.3	95.0	92.4	70.7	72.0	71.2
Rapid City .....	2.6	2.8	2.8	13.4	14.5	14.2	7.4	7.6	7.4
Sioux Falls .....	11.0	12.5	12.2	30.1	31.6	30.9	9.7	10.1	10.0
<b>Tennessee</b> .....	121.4	126.9	125.7	673.0	715.1	697.8	379.5	391.4	383.5
Chattanooga .....	15.4	15.8	15.7	54.9	57.4	56.0	33.5	32.9	32.3
Johnson City-Kingsport-Bristol .....	5.9	6.1	6.1	46.4	48.3	48.2	28.5	29.7	28.9
Knoxville .....	13.6	14.9	14.7	82.7	87.8	84.9	54.1	55.7	54.8
Memphis .....	27.6	28.3	28.3	158.6	172.5	170.0	77.3	82.3	81.1
Nashville .....	40.5	42.4	42.0	198.9	208.0	204.2	82.4	85.6	84.4
<b>Texas</b> .....	478.9	507.3	505.9	2,409.6	2,564.3	2,534.7	1,491.9	1,549.5	1,531.0
Abilene .....	2.5	2.6	2.6	19.5	20.0	19.6	10.1	10.4	10.3
Amarillo .....	5.0	5.2	5.2	26.4	27.6	27.4	16.6	17.3	17.0
Austin-San Marcos .....	30.6	32.2	32.0	165.4	178.7	175.4	126.7	129.5	129.8
Beaumont-Port Arthur .....	5.1	5.3	5.2	41.4	42.5	42.3	26.5	26.7	26.6
Brazoria .....	1.8	1.9	1.9	13.5	13.6	13.4	13.8	14.4	13.9
Brownsville-Harlingen-San Benito .....	3.5	3.6	3.6	27.1	28.0	27.9	23.6	23.9	23.8
Bryan-College Station .....	2.5	2.7	2.7	15.1	16.0	15.8	27.1	30.3	28.2
Corpus Christi .....	6.3	6.3	6.2	47.2	50.5	50.2	30.3	31.2	30.7
Dallas .....	144.3	154.4	154.5	537.4	568.0	560.2	199.1	207.5	204.9
El Paso .....	9.5	9.8	9.6	55.8	58.4	57.2	53.1	53.2	52.4
Ft. Worth-Arlington .....	33.3	35.5	35.0	192.6	203.2	201.2	92.1	95.9	95.0
Galveston-Texas City .....	5.7	6.0	6.0	18.2	19.4	19.1	27.0	27.0	26.9
Houston .....	102.1	108.9	108.1	581.7	618.0	610.2	253.7	258.5	256.5
Killeen-Temple .....	4.1	4.3	4.2	26.9	27.6	27.2	27.3	28.2	27.8
Laredo .....	2.3	2.4	2.4	11.7	13.1	13.1	14.4	15.1	15.1
Longview-Marshall .....	3.5	3.7	3.7	20.9	21.5	21.2	11.5	11.6	11.5
Lubbock .....	5.7	5.9	5.9	34.2	34.9	34.9	24.9	25.9	25.6
McAllen-Edinburg-Mission .....	4.9	5.2	5.2	31.8	32.9	33.2	37.1	38.8	38.9
Odessa-Midland .....	3.8	3.9	3.9	24.8	25.1	25.1	17.8	18.3	18.0
San Angelo .....	1.8	1.8	1.8	12.5	13.0	12.8	8.8	9.4	9.3
San Antonio .....	44.7	46.3	46.2	206.2	218.7	216.7	134.9	136.2	134.3
Sherman-Denison .....	2.3	2.6	2.6	11.7	12.2	12.0	5.7	6.0	5.9
Texarkana .....	1.7	1.7	1.7	14.0	14.4	14.4	11.2	11.2	11.0
Tyler .....	4.2	4.1	4.0	23.2	24.5	24.3	11.1	11.5	11.5
Victoria .....	1.5	1.5	1.5	9.6	9.6	9.5	6.2	6.4	6.3
Waco .....	5.8	6.1	6.1	28.5	29.1	28.7	15.0	15.3	15.3
Wichita Falls .....	2.2	2.3	2.3	15.9	16.1	15.8	12.7	12.8	12.6
<b>Utah</b> .....	53.1	56.9	55.9	269.7	287.0	281.3	174.0	181.1	178.3
Provo-Orem .....	4.0	4.4	4.5	51.9	54.6	54.0	19.2	20.2	20.0
Salt Lake City-Ogden .....	43.5	45.7	45.6	178.2	193.1	191.0	111.8	113.2	112.0
<b>Vermont</b> .....	12.2	12.6	12.6	65.6	68.6	68.0	45.1	49.1	46.6
Barre-Montpelier .....	2.4	2.4	2.4	8.6	8.7	8.8	7.2	7.1	7.1
Burlington .....	4.9	4.8	4.8	28.5	29.6	29.1	14.6	16.8	15.1
<b>Virginia</b> .....	169.8	177.2	175.1	975.4	1,039.7	1,024.8	597.4	615.2	604.2
Bristol .....	1.2	1.4	1.4	7.7	8.8	8.6	5.6	5.8	5.8
Charlottesville .....	4.5	4.5	4.7	19.8	20.9	20.5	24.0	27.2	25.9
Danville .....	1.4	1.5	1.5	10.4	10.2	10.2	6.1	5.9	5.9
Lynchburg .....	4.3	4.2	4.3	24.0	26.8	26.1	12.8	13.3	13.3
Norfolk-Virginia Beach-Newport News .....	30.8	33.0	32.7	192.8	202.2	198.2	142.7	145.2	143.3
Northern Virginia .....	56.5	60.1	60.0	394.7	422.6	417.1	176.5	182.1	180.4
Richmond-Petersburg .....	44.3	45.9	45.9	135.2	140.3	137.7	101.9	104.0	103.5
Roanoke .....	9.4	10.3	10.3	41.7	44.2	43.8	17.9	18.0	17.8
<b>Washington</b> .....	129.8	138.2	137.7	677.6	720.8	703.5	463.3	472.1	468.2
Seattle-Bellevue-Everett .....	78.3	83.5	81.6	372.8	396.9	389.3	180.7	184.7	183.3
Spokane .....	10.9	11.1	11.0	55.4	59.3	56.9	31.1	32.1	31.5
Tacoma .....	12.1	12.6	12.8	65.0	69.1	67.6	47.9	49.8	49.7

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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>West Virginia</b> .....	696.0	730.6	710.0	24.3	22.7	22.4	29.8	35.2	30.7
Charleston .....	128.9	133.8	131.3	2.0	2.0	1.9	6.2	6.6	6.1
Huntington-Ashland .....	119.6	124.7	121.0	1.3	1.5	1.4	5.1	5.3	4.7
Parkersburg-Marietta .....	67.8	71.8	68.9	.3	.3	.3	4.0	4.5	3.9
Wheeling .....	64.4	67.4	65.9	1.7	1.7	1.7	2.1	2.5	2.2
<b>Wisconsin</b> .....	2,625.0	2,750.4	2,677.5	2.1	2.5	2.1	93.5	114.2	99.7
Appleton-Oshkosh-Neenah .....	190.8	200.0	196.2	(1)	(1)	(1)	9.5	11.6	10.4
Eau Claire .....	69.8	75.9	73.2	(1)	(1)	(1)	2.1	2.8	2.3
Green Bay .....	133.5	138.7	135.8	(1)	(1)	(1)	5.5	6.5	5.9
Janesville-Beloit .....	68.9	70.4	69.2	(1)	(1)	(1)	2.4	2.7	2.4
Kenosha .....	52.3	55.4	54.0	(1)	(1)	(1)	2.1	2.3	2.2
La Crosse .....	68.4	71.9	69.6	(1)	(1)	(1)	2.2	2.6	2.3
Madison .....	268.2	282.7	276.9	(1)	(1)	(1)	10.8	13.7	12.3
Milwaukee-Waukesha .....	825.0	860.2	841.4	(1)	(1)	(1)	27.2	31.9	29.0
Racine .....	80.0	83.1	80.2	(1)	(1)	(1)	2.8	3.4	2.8
Sheboygan .....	58.3	59.8	59.2	(1)	(1)	(1)	2.1	2.4	2.1
Wausau .....	64.3	68.1	67.0	(1)	(1)	(1)	2.5	3.2	2.9
<b>Wyoming</b> .....	218.0	226.2	219.7	17.4	16.7	16.6	13.2	15.2	13.6
Casper .....	29.7	31.0	30.3	2.1	2.0	1.9	1.7	1.9	1.7
<b>Puerto Rico</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Caguas .....	(2)	(2)	(2)	(1)	(1)	(1)	(2)	(2)	(2)
Mayaguez .....	(2)	(2)	(2)	(1)	(1)	(1)	(2)	(2)	(2)
Ponce .....	(2)	(2)	(2)	(1)	(1)	(1)	(2)	(2)	(2)
San Juan-Bayamon .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Virgin Islands</b> .....	41.2	41.8	41.4	(1)	(1)	(1)	1.7	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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>West Virginia</b> .....	81.5	82.1	80.3	38.4	39.4	38.6	157.6	168.2	162.0
Charleston .....	10.1	9.9	10.0	9.2	9.2	9.2	30.6	32.8	31.5
Huntington-Ashland .....	17.1	16.0	15.1	6.5	7.0	7.0	30.6	32.4	31.3
Parkersburg-Marietta .....	13.1	13.0	12.6	2.6	2.6	2.6	16.8	18.3	17.3
Wheeling .....	6.0	6.3	6.1	2.7	2.8	2.7	16.8	17.4	17.1
<b>Wisconsin</b> .....	610.9	613.5	610.5	122.4	130.7	126.9	591.8	626.3	598.4
Appleton-Oshkosh-Neenah .....	59.1	59.8	59.8	7.6	8.6	8.4	39.9	42.7	41.0
Eau Claire .....	12.9	14.0	13.9	3.4	3.5	3.5	19.0	20.8	19.8
Green Bay .....	28.9	28.7	28.7	9.7	9.7	9.7	31.1	32.7	32.1
Janesville-Beloit .....	20.7	20.5	20.2	2.8	3.0	2.9	16.1	16.7	16.3
Kenosha .....	11.9	12.4	12.1	1.9	1.9	1.8	12.6	13.3	12.9
La Crosse .....	12.1	12.2	12.1	3.1	3.4	3.3	18.1	19.5	18.5
Madison .....	29.1	29.2	29.6	8.7	9.6	9.2	59.8	62.7	59.5
Milwaukee-Waukesha .....	177.6	178.9	178.5	39.7	42.2	41.2	177.8	184.9	178.8
Racine .....	25.6	25.4	24.5	2.5	2.6	2.5	16.2	17.9	17.2
Sheboygan .....	24.3	24.8	25.0	1.7	1.8	1.8	10.7	10.8	10.6
Wausau .....	18.3	19.1	19.1	3.2	3.3	3.1	16.4	17.3	16.8
<b>Wyoming</b> .....	10.6	11.0	10.8	13.5	14.1	13.6	50.0	52.4	50.1
Casper .....	1.5	1.5	1.5	1.6	1.8	1.8	8.3	8.6	8.3
<b>Puerto Rico</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Caguas .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Mayaguez .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Ponce .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
San Juan-Bayamon .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Virgin Islands</b> .....	2.3	2.4	2.4	2.4	2.4	2.4	9.1	9.2	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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
<b>West Virginia</b> .....	28.1	29.0	29.3	199.9	211.5	208.0	136.4	142.5	138.7
Charleston .....	7.5	8.1	8.1	40.0	41.0	40.6	23.3	24.2	23.9
Huntington-Ashland .....	3.8	4.4	4.4	34.4	36.2	36.1	20.8	21.9	21.0
Parkersburg-Marietta .....	2.6	2.6	2.6	19.1	20.9	20.3	9.3	9.6	9.3
Wheeling .....	2.7	2.6	2.7	22.6	23.9	23.7	9.8	10.2	9.7
<b>Wisconsin</b> .....	140.8	146.0	145.6	677.5	712.4	697.6	386.1	404.8	396.7
Appleton-Oshkosh-Neenah .....	9.3	9.7	9.8	43.7	44.6	44.1	21.6	23.2	22.6
Eau Claire .....	2.5	2.6	2.7	19.1	19.9	19.6	10.7	12.3	11.5
Green Bay .....	9.7	10.0	10.1	32.6	34.5	33.0	16.1	16.5	16.3
Janesville-Beloit .....	1.9	2.0	2.0	16.4	16.7	16.7	8.6	8.7	8.6
Kenosha .....	1.7	1.8	1.7	14.1	15.1	14.7	8.1	8.6	8.5
La Crosse .....	2.4	2.7	2.7	20.7	20.9	20.7	9.9	10.7	10.0
Madison .....	21.5	21.8	22.0	67.9	72.1	71.9	70.4	73.6	72.5
Milwaukee-Waukesha .....	57.4	58.9	58.5	256.4	270.4	264.0	89.0	92.9	91.4
Racine .....	2.3	2.4	2.4	21.3	21.6	21.3	9.2	9.8	9.5
Sheboygan .....	2.1	2.2	2.2	11.1	11.4	11.2	6.2	6.4	6.2
Wausau .....	4.8	5.2	5.2	11.8	12.4	12.3	7.4	7.7	7.5
<b>Wyoming</b> .....	8.3	8.6	8.6	46.4	48.6	47.7	58.6	59.6	58.7
Casper .....	1.1	1.2	1.2	8.0	8.5	8.3	5.4	5.5	5.6
<b>Puerto Rico</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Caguas .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Mayaguez .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Ponce .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
San Juan-Bayamon .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Virgin Islands</b> .....	1.9	1.9	1.8	10.6	10.5	10.7	13.2	13.6	13.1

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

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1998 benchmarks.

## Need information from the Bureau of Labor Statistics?

You can get it now on the WEB.

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/reghome.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>  
Region, State, and metropolitan area  
labor force data ..... <http://stats.bls.gov/lauhome.htm>  
Longitudinal research ..... <http://stats.bls.gov/nlshome.htm>  
Covered employment and wages ..... <http://stats.bls.gov/cewhome.htm>  
Occupational employment statistics ..... <http://stats.bls.gov/oeshome.htm>  
Mass layoff statistics ..... <http://stats.bls.gov/lauhome.htm>

### **Prices and Living Conditions:**

Consumer price indexes ..... <http://stats.bls.gov/cpihome.htm>  
Producer price indexes ..... <http://stats.bls.gov/ppihome.htm>  
Consumer Expenditure Survey ..... <http://stats.bls.gov/csxhome.htm>

### **Compensation and Working Conditions:**

National Compensation Survey ..... <http://stats.bls.gov/comhome.htm>  
Collective bargaining ..... <http://stats.bls.gov/cbahome.htm>  
Employment cost trends ..... <http://stats.bls.gov/ecthome.htm>  
Employee Benefits Survey ..... <http://stats.bls.gov/ebshome.htm>  
Occupational Compensation Survey ..... <http://stats.bls.gov/ocshome.htm>  
Occupational injuries and illnesses ..... <http://stats.bls.gov/oshhome.htm>

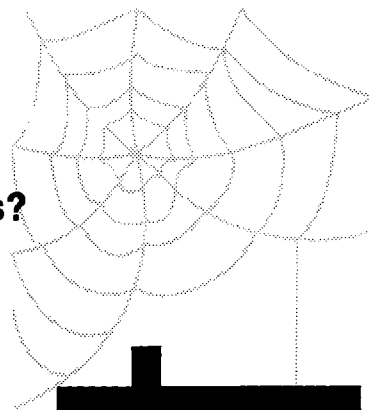
### **Productivity:**

Quarterly labor productivity ..... <http://stats.bls.gov/lprhome.htm>  
Industry productivity ..... <http://stats.bls.gov/iprhome.htm>  
Federal Government productivity ..... <http://stats.bls.gov/gprhome.htm>  
Multifactor productivity ..... <http://stats.bls.gov/mprhome.htm>

**Employment Projections** ..... <http://stats.bls.gov/emphome.htm>

### **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>



Internet



**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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Total private</b> .....		34.6	34.2	34.7	34.0	34.3	-	-	-	-	-
<b>Goods-producing</b> .....		41.0	40.9	41.7	40.5	40.5	-	-	-	-	-
<b>Mining</b> .....		43.9	45.0	43.7	42.2	42.8	-	-	-	-	-
Metal mining .....	10	44.5	43.8	43.8	43.6	-	-	-	-	-	-
Iron ores .....	101	44.9	46.2	43.5	44.6	-	-	-	-	-	-
Copper ores .....	102	46.6	44.8	46.6	45.5	-	-	-	-	-	-
Coal mining .....	12	44.8	45.2	45.7	45.2	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	44.7	45.3	45.7	45.4	-	-	-	-	-	-
Oil and gas extraction .....	13	42.7	45.2	42.3	40.3	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	41.7	43.8	42.6	39.8	-	-	-	-	-	-
Oil and gas field services .....	138	43.1	45.9	42.1	40.7	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	46.4	44.7	45.9	44.1	-	-	-	-	-	-
Crushed and broken stone .....	142	48.3	45.7	48.2	46.0	-	-	-	-	-	-
<b>Construction</b> .....		38.8	37.4	39.0	37.8	37.9	-	-	-	-	-
General building contractors .....	15	37.9	37.0	38.4	37.1	-	-	-	-	-	-
Residential building construction .....	152	36.6	35.5	37.1	35.6	-	-	-	-	-	-
Operative builders .....	153	37.8	37.5	37.6	37.0	-	-	-	-	-	-
Nonresidential building construction .....	154	39.3	38.5	39.7	38.8	-	-	-	-	-	-
Heavy construction, except building .....	16	42.3	39.5	41.2	40.9	-	-	-	-	-	-
Highway and street construction .....	161	42.9	37.2	39.8	39.7	-	-	-	-	-	-
Heavy construction, except highway .....	162	42.1	40.2	41.7	41.3	-	-	-	-	-	-
Special trade contractors .....	17	38.2	37.1	38.8	37.4	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	39.3	39.2	39.7	38.9	-	-	-	-	-	-
Painting and paper hanging .....	172	36.9	35.5	37.1	36.3	-	-	-	-	-	-
Electrical work .....	173	39.8	39.7	40.6	39.3	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	35.9	34.7	36.5	34.8	-	-	-	-	-	-
Carpentry and floor work .....	175	36.2	34.7	37.0	35.3	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	34.5	30.6	35.2	32.8	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.7	41.9	42.6	41.3	41.3	4.6	4.7	4.9	4.4	4.2
<b>Durable goods</b> .....		42.3	42.6	43.2	41.9	41.9	4.8	5.0	5.2	4.5	4.4
Lumber and wood products .....	24	41.1	40.2	41.7	40.6	40.2	4.4	3.9	4.7	4.1	-
Logging .....	241	40.7	38.3	39.4	40.2	-	5.5	4.6	5.1	5.3	-
Sawmills and planing mills .....	242	42.1	41.7	42.6	42.1	-	4.9	4.8	5.0	4.9	-
Sawmills and planing mills, general .....	2421	42.5	42.0	42.9	42.5	-	5.3	5.2	5.4	5.4	-
Hardwood dimension and flooring mills .....	2426	41.0	40.9	42.0	41.0	-	3.4	3.4	4.0	3.4	-
Millwork, plywood, and structural members .....	243	41.7	40.7	43.0	41.1	-	4.8	3.9	5.4	4.3	-
Millwork .....	2431	41.1	39.8	43.0	41.1	-	3.8	2.8	4.4	3.7	-
Wood kitchen cabinets .....	2434	41.4	40.7	42.6	40.0	-	5.3	4.4	5.9	3.7	-
Hardwood veneer and plywood .....	2435	42.1	42.7	42.4	42.1	-	5.2	5.1	5.4	5.2	-
Softwood veneer and plywood .....	2436	43.4	42.7	44.5	43.4	-	6.0	5.8	6.9	6.4	-
Wood containers .....	244	38.7	38.8	39.8	38.6	-	3.4	3.3	4.0	3.3	-
Wood buildings and mobile homes .....	245	39.6	37.4	39.3	37.7	-	3.0	2.2	2.7	2.3	-
Mobile homes .....	2451	39.7	37.4	39.4	38.3	-	2.9	2.1	2.6	2.3	-
Miscellaneous wood products .....	249	40.5	40.4	41.1	40.2	-	3.5	3.3	3.7	3.4	-
Furniture and fixtures .....	25	40.5	40.6	41.5	40.2	39.9	3.6	3.6	4.0	3.5	-
Household furniture .....	251	39.7	40.2	40.8	39.6	-	3.1	3.5	3.5	3.1	-
Wood household furniture .....	2511	40.0	40.2	40.5	39.3	-	3.0	2.8	3.3	3.1	-
Upholstered household furniture .....	2512	39.2	40.0	41.5	39.8	-	2.6	3.6	3.7	2.6	-
Metal household furniture .....	2514	40.2	41.5	41.0	40.5	-	4.3	7.0	4.0	3.4	-
Mattresses and bedsprings .....	2515	39.9	40.1	39.9	39.9	-	3.8	3.8	3.4	4.5	-
Office furniture .....	252	41.6	42.3	43.5	41.5	-	4.1	4.4	4.6	4.0	-
Public building and related furniture .....	253	41.4	40.6	41.9	40.1	-	4.8	3.8	5.4	4.3	-
Partitions and fixtures .....	254	42.4	41.8	42.2	42.5	-	4.5	3.7	4.3	4.5	-
Miscellaneous furniture and fixtures .....	259	39.8	39.0	41.6	38.0	-	3.9	3.3	4.4	3.0	-

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Total private</b> .....		\$12.77	\$12.60	\$12.99	\$13.09	\$13.08	\$441.84	\$430.92	\$450.75	\$445.06	\$448.64
<b>Goods-producing</b> .....		14.33	14.10	14.55	14.46	14.44	587.53	576.69	606.74	585.63	584.82
<b>Mining</b> .....		16.95	16.65	17.35	17.35	17.41	744.11	749.25	758.20	732.17	745.15
Metal mining .....	10	18.25	17.94	18.23	18.20	—	812.13	785.77	798.47	793.52	—
Iron ores .....	101	19.90	18.93	20.37	19.96	—	893.51	874.57	886.10	890.22	—
Copper ores .....	102	16.53	16.36	16.87	16.79	—	770.30	732.93	786.14	763.95	—
Coal mining .....	12	19.16	19.30	19.44	19.33	—	858.37	872.36	888.41	873.72	—
Bituminous coal and lignite mining .....	122	19.41	19.53	19.68	19.55	—	867.63	884.71	899.38	887.57	—
Oil and gas extraction .....	13	16.83	16.33	17.39	17.33	—	718.64	738.12	735.60	698.40	—
Crude petroleum and natural gas .....	131	22.66	22.34	23.57	23.54	—	944.92	978.49	1,004.08	936.89	—
Oil and gas field services .....	138	13.91	13.47	13.91	13.84	—	599.52	618.27	585.61	563.29	—
Nonmetallic minerals, except fuels .....	14	14.72	14.26	14.96	14.94	—	683.01	637.42	686.66	658.85	—
Crushed and broken stone .....	142	14.03	13.58	14.15	14.10	—	677.65	620.61	682.03	648.60	—
<b>Construction</b> .....		16.56	16.25	16.84	16.71	16.65	642.53	607.75	656.76	631.64	631.04
General building contractors .....	15	15.87	15.61	16.19	16.16	—	601.47	577.57	621.70	599.54	—
Residential building construction .....	152	14.83	14.66	15.03	15.09	—	542.78	520.43	557.61	537.20	—
Operative builders .....	153	15.17	15.19	15.16	15.28	—	573.43	569.63	570.02	565.36	—
Nonresidential building construction .....	154	16.91	16.51	17.33	17.25	—	664.56	635.64	688.00	669.30	—
Heavy construction, except building .....	16	16.15	15.29	16.30	16.07	—	683.15	603.96	671.56	657.26	—
Highway and street construction .....	161	16.22	14.82	15.99	15.42	—	695.84	551.30	636.40	612.17	—
Heavy construction, except highway .....	162	16.12	15.42	16.41	16.26	—	678.65	619.88	684.30	671.54	—
Special trade contractors .....	17	16.90	16.68	17.19	17.05	—	645.58	618.83	666.97	637.67	—
Plumbing, heating, and air conditioning .....	171	17.16	16.99	17.44	17.29	—	674.39	666.01	692.37	672.58	—
Painting and paper hanging .....	172	15.22	14.80	15.48	15.36	—	561.62	525.40	574.31	557.57	—
Electrical work .....	173	18.40	18.12	18.74	18.55	—	732.32	719.36	760.84	729.02	—
Masonry, stonework, and plastering .....	174	16.73	16.31	16.95	16.75	—	600.61	565.96	618.68	582.90	—
Carpentry and floor work .....	175	16.46	16.32	16.63	16.68	—	595.85	566.30	615.31	588.80	—
Roofing, siding, and sheet metal work .....	176	14.74	14.31	15.10	14.74	—	508.53	437.89	531.52	483.47	—
<b>Manufacturing</b> .....		13.49	13.40	13.69	13.67	13.66	562.53	561.46	583.19	564.57	564.16
<b>Durable goods</b> .....		13.99	13.96	14.17	14.12	14.10	591.78	594.70	612.14	591.63	590.79
Lumber and wood products .....	24	11.11	10.90	11.34	11.30	11.29	456.62	438.18	472.88	458.78	453.86
Logging .....	241	12.55	12.06	12.91	12.79	—	510.79	461.90	508.65	514.16	—
Sawmills and planing mills .....	242	11.10	11.04	11.22	11.25	—	467.31	460.37	477.97	473.63	—
Sawmills and planing mills, general .....	2421	11.55	11.47	11.69	11.70	—	490.88	481.74	501.50	497.25	—
Hardwood dimension and flooring mills .....	2426	9.43	9.44	9.54	9.64	—	386.63	386.10	400.68	395.24	—
Millwork, plywood, and structural members .....	243	11.26	10.98	11.55	11.43	—	469.54	446.89	496.65	469.77	—
Millwork .....	2431	11.27	10.97	11.48	11.36	—	463.20	436.61	493.64	466.90	—
Wood kitchen cabinets .....	2434	11.22	10.90	11.69	11.50	—	464.51	443.63	497.99	460.00	—
Hardwood veneer and plywood .....	2435	10.01	9.75	10.24	10.25	—	421.42	416.33	434.18	431.53	—
Softwood veneer and plywood .....	2436	13.43	13.20	13.46	13.55	—	582.86	563.64	598.97	588.07	—
Wood containers .....	244	8.85	8.61	9.13	9.07	—	342.50	334.07	363.37	350.10	—
Wood buildings and mobile homes .....	245	11.34	11.27	11.55	11.54	—	449.06	421.50	453.92	435.06	—
Mobile homes .....	2451	11.50	11.47	11.74	11.69	—	456.55	428.98	462.56	447.73	—
Miscellaneous wood products .....	249	10.48	10.40	10.63	10.72	—	424.44	420.16	436.89	430.94	—
Furniture and fixtures .....	25	10.89	10.75	11.10	11.10	11.06	441.05	436.45	460.65	446.22	441.29
Household furniture .....	251	10.28	10.16	10.53	10.56	—	408.12	408.43	429.62	418.18	—
Wood household furniture .....	2511	9.85	9.67	10.05	10.10	—	394.00	388.73	407.03	396.93	—
Upholstered household furniture .....	2512	10.99	10.86	11.31	11.28	—	430.81	434.40	469.37	448.94	—
Metal household furniture .....	2514	9.74	9.86	9.73	9.68	—	391.55	409.19	398.93	392.04	—
Mattresses and bedsprings .....	2515	10.80	10.77	11.16	11.49	—	430.92	431.88	445.28	458.45	—
Office furniture .....	252	11.80	11.69	12.03	11.88	—	490.88	494.49	523.31	493.02	—
Public building and related furniture .....	253	12.05	11.68	12.53	12.47	—	498.87	474.21	525.01	500.05	—
Partitions and fixtures .....	254	11.65	11.62	11.57	11.58	—	493.96	485.72	488.25	492.15	—
Miscellaneous furniture and fixtures .....	259	11.01	10.78	11.20	11.23	—	438.20	420.42	465.92	426.74	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	43.4	42.3	43.7	42.4	42.2	6.2	5.2	6.3	5.7	-
Flat glass .....	321	44.2	45.4	43.5	43.0	-	7.5	7.5	7.4	6.5	-
Glass and glassware, pressed or blown .....	322	42.5	42.5	42.8	41.8	-	5.2	4.4	5.4	5.0	-
Glass containers .....	3221	45.0	44.4	44.6	43.3	-	6.9	6.0	6.6	5.7	-
Pressed and blown glass, nec .....	3229	41.0	41.4	41.7	40.8	-	4.1	3.5	4.6	4.6	-
Products of purchased glass .....	323	42.4	41.7	43.5	43.3	-	4.9	4.6	5.5	4.9	-
Cement, hydraulic .....	324	45.5	46.6	44.2	45.5	-	6.2	7.3	5.2	7.0	-
Structural clay products .....	325	41.9	42.0	42.7	41.8	-	4.8	4.3	5.1	4.8	-
Pottery and related products .....	326	41.1	41.1	42.7	41.7	-	4.9	4.4	5.1	4.9	-
Concrete, gypsum, and plaster products .....	327	45.0	41.7	44.8	42.5	-	7.9	5.6	7.5	6.7	-
Concrete block and brick .....	3271	47.0	44.6	47.6	45.1	-	9.1	6.9	9.6	8.1	-
Concrete products, nec .....	3272	44.3	42.5	44.8	43.8	-	7.0	5.7	7.2	6.9	-
Ready-mixed concrete .....	3273	44.6	39.4	43.7	40.2	-	8.0	4.7	7.0	5.8	-
Misc. nonmetallic mineral products .....	329	42.9	43.6	44.1	43.2	-	5.2	5.3	5.9	5.2	-
Abrasive products .....	3291	41.7	42.9	42.8	41.0	-	3.0	3.7	3.3	2.6	-
Asbestos products .....	3292	47.8	46.4	52.9	49.1	-	8.9	6.2	11.8	9.4	-
Primary metal industries .....	33	44.2	45.4	44.6	43.8	43.6	6.3	6.8	6.5	6.2	-
Blast furnaces and basic steel products .....	331	44.6	46.2	43.7	44.0	43.6	6.1	6.8	5.3	5.6	-
Blast furnaces and steel mills .....	3312	45.1	46.8	43.5	44.3	-	6.4	7.0	5.1	5.8	-
Steel pipe and tubes .....	3317	44.1	45.9	45.8	43.3	-	6.1	7.5	6.7	5.3	-
Iron and steel foundries .....	332	44.6	45.6	45.7	44.2	-	6.2	6.6	6.8	6.0	-
Gray and ductile iron foundries .....	3321	45.3	46.0	47.0	45.7	-	7.0	7.1	7.9	7.1	-
Malleable iron foundries .....	3322	47.8	49.6	44.0	42.2	-	6.9	7.5	6.9	5.9	-
Steel foundries, nec .....	3325	43.1	45.0	43.8	42.2	-	5.1	6.5	5.2	4.8	-
Primary nonferrous metals .....	333	43.6	44.3	43.9	43.1	-	6.5	5.9	6.8	6.6	-
Primary aluminum .....	3334	44.3	44.5	44.4	43.3	-	7.0	5.9	7.1	6.9	-
Nonferrous rolling and drawing .....	335	44.3	45.9	44.5	43.6	-	7.4	7.9	7.9	7.5	-
Copper rolling and drawing .....	3351	43.4	45.4	44.8	44.7	-	7.4	7.9	8.6	8.7	-
Aluminum sheet, plate, and foil .....	3353	44.7	48.0	43.7	42.9	-	10.1	10.3	10.1	10.3	-
Nonferrous wire drawing and insulating .....	3357	44.2	45.2	45.1	43.7	-	6.9	7.8	7.7	7.1	-
Nonferrous foundries (castings) .....	336	42.9	43.5	45.1	43.4	-	5.0	5.3	6.2	5.2	-
Aluminum foundries .....	3365	43.0	42.4	45.0	43.3	-	5.2	4.8	6.3	5.2	-
Fabricated metal products .....	34	42.3	42.6	43.4	41.8	41.8	4.8	5.0	5.3	4.6	-
Metal cans and shipping containers .....	341	43.7	43.8	44.1	43.8	-	6.6	5.6	6.6	6.2	-
Metal cans .....	3411	43.7	44.2	43.9	44.0	-	6.4	5.6	6.5	6.2	-
Cutlery, handtools, and hardware .....	342	42.2	42.5	43.5	41.8	-	4.2	4.5	4.8	4.0	-
Hand and edge tools, and blades and handsaws .....	3423,5	43.1	43.5	44.2	43.1	-	4.6	4.8	4.9	4.3	-
Hardware, nec .....	3429	42.0	42.2	43.6	41.6	-	4.2	4.5	4.9	4.1	-
Plumbing and heating, except electric .....	343	41.9	41.7	43.6	41.9	-	3.7	3.8	4.6	4.0	-
Plumbing fixture fittings and trim .....	3432	41.0	41.8	42.5	41.8	-	3.7	4.7	4.2	4.1	-
Heating equipment, except electric .....	3433	41.2	40.9	42.8	41.2	-	3.6	2.8	4.6	4.0	-
Fabricated structural metal products .....	344	42.2	42.0	43.5	41.6	-	4.8	4.6	5.4	4.6	-
Fabricated structural metal .....	3441	43.5	43.0	46.4	43.9	-	6.4	5.9	7.6	6.3	-
Metal doors, sash, and trim .....	3442	41.2	40.7	42.0	40.1	-	3.7	3.0	4.2	3.5	-
Fabricated plate work (boiler shops) .....	3443	43.1	43.6	44.2	42.6	-	5.3	5.8	5.7	5.1	-
Sheet metal work .....	3444	41.2	40.9	42.0	40.7	-	4.1	4.0	4.3	3.8	-
Architectural metal work .....	3446	41.9	41.7	42.4	41.0	-	4.5	4.2	4.8	4.1	-
Screw machine products, bolts, etc .....	345	43.3	44.5	43.9	42.9	-	5.5	6.6	5.6	5.0	-
Screw machine products .....	3451	42.1	43.4	42.2	41.1	-	4.8	5.9	4.7	4.1	-
Bolts, nuts, rivets, and washers .....	3452	44.8	45.7	45.9	45.1	-	6.2	7.4	6.8	6.0	-
Metal forgings and stampings .....	346	42.8	43.4	44.4	42.6	-	5.3	5.7	5.9	5.2	-
Iron and steel forgings .....	3462	43.8	45.9	44.0	42.4	-	6.1	7.1	6.0	5.3	-
Automotive stampings .....	3465	43.2	43.8	45.6	43.2	-	5.4	5.8	6.8	5.8	-
Metal stampings, nec .....	3469	41.3	41.5	42.2	40.7	-	4.3	4.6	4.4	3.9	-
Metal services, nec .....	347	41.5	41.4	42.2	40.4	-	4.8	5.0	5.0	4.4	-
Plating and polishing .....	3471	41.0	40.7	42.0	40.0	-	4.7	4.5	5.0	4.4	-
Metal coating and allied services .....	3479	42.1	42.6	42.5	41.1	-	5.1	5.7	5.0	4.5	-
Ordinance and accessories, nec .....	348	40.3	40.3	41.9	40.7	-	3.5	3.4	3.9	3.4	-
Ammunition, except for small arms, nec .....	3483	42.1	41.6	43.5	42.7	-	3.5	3.5	3.4	3.1	-
Misc. fabricated metal products .....	349	42.0	43.1	42.8	41.4	-	4.1	4.8	4.6	4.0	-
Valves and pipe fittings, nec .....	3494	41.7	41.9	42.4	41.1	-	4.1	4.0	4.5	4.0	-
Misc. fabricated wire products .....	3496	40.5	41.3	41.4	40.4	-	3.6	3.9	4.6	3.7	-

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$13.60	\$13.39	\$13.71	\$13.67	\$13.72	\$590.24	\$566.40	\$599.13	\$579.61	\$578.98
Flat glass .....	321	18.60	19.23	17.72	17.68	—	822.12	873.04	770.82	760.24	—
Glass and glassware, pressed or blown .....	322	15.52	15.17	15.71	15.64	—	659.60	644.73	672.39	653.75	—
Glass containers .....	3221	16.38	16.02	16.56	16.54	—	737.10	711.29	738.58	716.18	—
Pressed and blown glass, nec .....	3229	14.93	14.61	15.14	15.05	—	612.13	604.85	631.34	614.04	—
Products of purchased glass .....	323	12.11	12.20	12.46	12.51	—	513.46	508.74	542.01	541.68	—
Cement, hydraulic .....	324	18.54	18.28	18.88	19.30	—	843.57	851.85	834.50	878.15	—
Structural clay products .....	325	11.88	11.67	12.13	11.99	—	497.77	490.14	517.95	501.18	—
Pottery and related products .....	326	11.94	11.75	11.92	11.93	—	490.73	482.93	508.98	497.48	—
Concrete, gypsum, and plaster products .....	327	13.10	12.53	13.21	13.06	—	589.50	522.50	591.81	555.05	—
Concrete block and brick .....	3271	12.50	12.18	12.51	12.39	—	587.50	543.23	595.48	558.79	—
Concrete products, nec .....	3272	11.71	11.27	11.95	11.78	—	518.75	478.98	535.36	515.96	—
Ready-mixed concrete .....	3273	13.93	13.29	13.98	13.95	—	621.28	523.63	610.93	560.79	—
Misc. nonmetallic mineral products .....	329	13.82	13.84	13.88	13.79	—	592.88	603.42	612.11	595.73	—
Abrasive products .....	3291	12.41	12.40	12.87	12.74	—	517.50	531.96	550.84	522.34	—
Asbestos products .....	3292	15.43	15.16	14.99	14.32	—	737.55	703.42	792.97	703.11	—
Primary metal industries .....	33	15.48	15.47	15.35	15.38	15.36	684.22	702.34	684.61	673.64	669.70
Blast furnaces and basic steel products .....	331	18.43	18.33	18.17	18.38	18.47	821.98	846.85	794.03	808.72	805.29
Blast furnaces and steel mills .....	3312	20.10	19.93	19.81	19.99	—	906.51	932.72	861.74	885.56	—
Steel pipe and tubes .....	3317	14.19	14.41	14.07	14.07	—	625.78	661.42	644.41	609.23	—
Iron and steel foundries .....	332	13.96	14.04	14.03	14.02	—	622.62	640.22	641.17	619.68	—
Gray and ductile iron foundries .....	3321	14.65	14.87	14.49	14.41	—	663.65	684.02	681.03	658.54	—
Malleable iron foundries .....	3322	15.57	16.52	14.34	14.39	—	744.25	819.39	630.96	607.26	—
Steel foundries, nec .....	3325	13.27	13.01	13.76	13.74	—	571.94	585.45	602.69	579.83	—
Primary nonferrous metals .....	333	17.04	16.60	17.21	17.18	—	742.94	735.38	755.52	740.46	—
Primary aluminum .....	3334	16.97	16.45	17.18	17.06	—	751.77	732.03	762.79	738.70	—
Nonferrous rolling and drawing .....	335	14.60	14.74	14.43	14.29	—	646.78	676.57	642.14	623.04	—
Copper rolling and drawing .....	3351	15.18	14.91	15.45	15.53	—	658.81	676.91	692.16	694.19	—
Aluminum sheet, plate, and foil .....	3353	16.78	16.42	16.61	16.53	—	750.07	788.16	725.86	709.14	—
Nonferrous wire drawing and insulating .....	3357	14.68	15.09	14.13	13.99	—	648.86	682.07	637.26	611.36	—
Nonferrous foundries (castings) .....	336	12.35	12.26	12.54	12.40	—	529.82	533.31	565.55	538.16	—
Aluminum foundries .....	3365	11.83	11.74	12.09	11.88	—	508.69	497.78	544.05	514.40	—
Fabricated metal products .....	34	13.07	12.99	13.36	13.32	13.30	552.86	553.37	579.82	556.78	555.94
Metal cans and shipping containers .....	341	16.69	16.49	16.85	16.73	—	729.35	722.26	743.09	732.77	—
Metal cans .....	3411	17.79	17.55	17.96	17.75	—	777.42	775.71	788.44	781.00	—
Cutlery, handtools, and hardware .....	342	12.29	12.36	12.40	12.38	—	518.64	525.30	539.40	517.48	—
Hand and edge tools, and blades and handsaws .....	3423,5	12.25	12.16	12.48	12.56	—	527.98	528.96	551.62	541.34	—
Hardware, nec .....	3429	12.46	12.60	12.45	12.38	—	523.32	531.72	542.82	515.01	—
Plumbing and heating, except electric .....	343	11.88	11.86	12.06	11.81	—	497.77	494.56	525.82	494.84	—
Plumbing fixture fittings and trim .....	3432	11.54	11.67	11.73	11.58	—	473.14	487.81	498.53	484.04	—
Heating equipment, except electric .....	3433	12.11	11.63	12.31	12.21	—	498.93	475.67	526.87	503.05	—
Fabricated structural metal products .....	344	12.50	12.35	12.78	12.76	—	527.50	518.70	555.93	530.82	—
Fabricated structural metal .....	3441	12.82	12.53	13.06	13.00	—	557.67	538.79	605.98	570.70	—
Metal doors, sash, and trim .....	3442	10.61	10.51	10.88	10.90	—	437.13	427.76	456.96	437.09	—
Fabricated plate work (boiler shops) .....	3443	13.77	13.66	14.11	14.06	—	593.49	595.58	623.66	598.96	—
Sheet metal work .....	3444	12.80	12.61	12.99	13.06	—	527.36	515.75	545.58	531.54	—
Architectural metal work .....	3446	11.82	11.65	12.35	12.25	—	495.26	485.81	523.64	502.25	—
Screw machine products, bolts, etc .....	345	13.30	13.22	13.60	13.65	—	575.89	588.29	597.04	585.59	—
Screw machine products .....	3451	12.62	12.52	12.89	12.91	—	531.30	543.37	543.96	530.60	—
Bolts, nuts, rivets, and washers .....	3452	14.06	14.02	14.38	14.45	—	629.89	640.71	660.04	651.70	—
Metal forgings and stampings .....	346	15.25	15.20	15.63	15.61	—	652.70	659.68	693.97	664.99	—
Iron and steel forgings .....	3462	14.63	14.61	14.95	14.89	—	640.79	670.60	657.80	631.34	—
Automotive stampings .....	3465	17.47	17.36	17.90	17.91	—	754.70	760.37	816.24	773.71	—
Metal stampings, nec .....	3469	12.64	12.53	12.92	12.91	—	522.03	520.00	545.22	525.44	—
Metal services, nec .....	347	11.15	11.02	11.36	11.38	—	462.73	456.23	479.39	459.75	—
Plating and polishing .....	3471	11.03	10.93	11.29	11.27	—	452.23	444.85	474.18	450.80	—
Metal coating and allied services .....	3479	11.33	11.15	11.48	11.55	—	476.99	474.99	487.90	474.71	—
Ordnance and accessories, nec .....	348	15.54	15.54	15.65	15.48	—	626.26	626.26	655.74	630.04	—
Ammunition, except for small arms, nec .....	3483	16.41	16.16	16.62	16.47	—	690.86	672.26	722.97	703.27	—
Misc. fabricated metal products .....	349	12.51	12.38	12.83	12.74	—	525.42	533.58	549.12	527.44	—
Valves and pipe fittings, nec .....	3494	12.79	12.63	13.26	13.11	—	533.34	529.20	562.22	538.82	—
Misc. fabricated wire products .....	3496	11.14	10.87	11.37	11.26	—	451.17	448.93	470.72	454.90	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	42.8	43.6	43.2	42.2	42.0	5.0	5.6	5.3	4.7	—
Engines and turbines .....	351	44.6	45.6	45.6	44.4	—	6.1	6.4	7.1	6.7	—
Turbines and turbine generator sets .....	3511	42.8	42.6	44.8	43.4	—	4.4	4.3	6.0	5.3	—
Internal combustion engines, nec .....	3519	45.2	46.6	45.9	44.7	—	6.7	7.2	7.4	7.1	—
Farm and garden machinery .....	352	41.5	43.0	40.8	40.8	—	3.7	5.0	3.1	3.3	—
Farm machinery and equipment .....	3523	42.0	42.8	41.1	41.4	—	3.8	4.8	2.8	3.4	—
Construction and related machinery .....	353	43.7	44.8	43.9	42.6	—	5.6	6.2	5.5	4.6	—
Construction machinery .....	3531	43.2	44.6	42.9	43.2	—	5.0	5.9	4.6	4.9	—
Mining machinery .....	3532	41.3	42.8	41.6	40.1	—	3.9	4.5	3.6	3.0	—
Oil and gas field machinery .....	3533	47.1	49.3	45.8	43.0	—	8.5	9.9	7.6	5.1	—
Conveyors and conveying equipment .....	3535	42.5	42.1	43.9	41.2	—	4.9	4.9	6.1	3.8	—
Industrial trucks and tractors .....	3537	41.4	41.6	42.9	41.3	—	4.1	3.8	4.8	3.8	—
Metalworking machinery .....	354	43.2	44.4	44.3	42.9	—	5.7	6.6	6.1	5.6	—
Machine tools, metal cutting types .....	3541	43.4	45.2	44.0	42.8	—	5.4	6.6	5.6	4.8	—
Machine tools, metal forming types .....	3542	44.2	45.8	44.9	43.1	—	6.0	8.3	6.5	5.7	—
Special dies, tools, jigs, and fixtures .....	3544	43.5	44.5	44.9	43.4	—	6.2	7.1	6.9	6.3	—
Machine tool accessories .....	3545	42.4	43.5	43.6	42.0	—	4.4	5.3	4.4	4.1	—
Power driven handtools .....	3546	41.8	41.7	42.5	42.0	—	3.9	3.5	4.4	3.9	—
Special industry machinery .....	355	42.2	43.4	42.9	41.7	—	4.6	5.4	5.1	4.4	—
Textile machinery .....	3552	40.5	42.0	41.2	40.1	—	3.4	3.9	4.3	3.5	—
Printing trades machinery .....	3555	41.9	43.2	42.6	41.3	—	4.7	5.7	4.8	3.4	—
Food products machinery .....	3556	42.3	43.0	43.4	41.5	—	4.6	4.9	5.7	4.3	—
General industrial machinery .....	356	42.4	43.5	43.0	41.9	—	4.7	5.4	4.9	4.2	—
Pumps and pumping equipment .....	3561	41.0	40.9	41.8	40.6	—	4.3	4.4	4.7	3.7	—
Ball and roller bearings .....	3562	43.1	44.6	43.2	43.3	—	5.9	6.8	5.3	5.2	—
Air and gas compressors .....	3563	42.7	43.0	43.1	41.7	—	4.7	5.1	5.1	4.8	—
Blowers and fans .....	3564	42.9	43.4	43.9	42.3	—	3.9	4.0	4.7	3.4	—
Speed changers, drives, and gears .....	3566	42.6	45.9	43.2	41.1	—	5.4	7.2	5.6	4.3	—
Power transmission equipment, nec .....	3568	42.2	43.8	42.3	41.1	—	4.5	5.4	4.3	3.8	—
Computer and office equipment .....	357	41.8	41.9	41.7	41.1	—	4.1	4.0	4.9	4.1	—
Electronic computers .....	3571	42.0	42.0	40.7	40.4	—	4.6	4.3	5.5	4.3	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	41.8	43.1	43.2	42.8	—	4.0	5.1	4.5	4.5	—
Refrigeration and service machinery .....	358	43.6	43.1	42.6	41.8	—	4.9	4.3	4.6	4.3	—
Refrigeration and heating equipment .....	3585	44.3	43.8	42.6	42.1	—	5.3	4.5	5.0	4.7	—
Misc. industrial and commercial machinery .....	359	42.5	43.5	43.3	42.2	—	5.3	6.1	5.4	4.8	—
Carburetors, pistons, rings, valves .....	3592	41.0	41.6	42.1	41.8	—	5.2	5.7	6.0	6.2	—
Scales, balances, and industrial machinery, nec .....	3596,9	42.6	43.5	43.3	42.2	—	5.3	6.1	5.4	4.8	—
Electronic and other electrical equipment .....	36	41.4	41.8	42.3	41.1	41.2	3.8	4.1	4.2	3.6	—
Electric distribution equipment .....	361	40.6	40.9	42.4	40.8	—	3.9	4.4	4.6	3.7	—
Transformers, except electronic .....	3612	41.7	42.4	44.0	41.9	—	3.5	4.1	4.0	3.0	—
Switchgear and switchboard apparatus .....	3613	39.6	39.5	40.9	39.9	—	4.3	4.6	5.1	4.4	—
Electrical industrial apparatus .....	362	41.4	42.1	43.0	41.1	—	3.6	4.1	3.8	3.1	—
Motors and generators .....	3621	41.5	42.1	43.6	41.7	—	3.6	4.1	3.9	3.3	—
Relays and industrial controls .....	3625	40.6	41.2	42.1	39.8	—	3.3	3.9	3.6	2.5	—
Household appliances .....	363	40.4	41.5	41.2	40.4	—	2.5	3.0	2.7	2.1	—
Household refrigerators and freezers .....	3632	41.5	40.7	42.4	42.3	—	2.6	2.1	2.4	2.1	—
Household laundry equipment .....	3633	40.1	44.3	41.4	38.3	—	2.4	4.0	3.7	3.8	—
Electric housewares and fans .....	3634	40.2	39.8	40.7	40.2	—	2.1	2.0	1.4	1.0	—
Electric lighting and wiring equipment .....	364	41.2	42.0	42.4	41.6	—	3.9	4.1	4.8	4.3	—
Electric lamps .....	3641	41.1	43.7	41.3	40.0	—	3.9	4.6	4.5	4.7	—
Current-carrying wiring devices .....	3643	41.0	42.6	41.3	41.2	—	4.0	4.8	4.6	4.4	—
Noncurrent-carrying wiring devices .....	3644	42.4	43.9	43.2	41.0	—	3.7	4.0	4.8	3.4	—
Residential lighting fixtures .....	3645	39.1	38.3	41.2	40.5	—	3.1	2.8	3.5	3.0	—
Household audio and video equipment .....	365	40.6	40.1	40.4	38.8	—	4.6	4.3	4.3	3.9	—
Household audio and video equipment .....	3651	39.6	39.4	40.5	39.3	—	3.2	3.0	3.0	3.1	—
Communications equipment .....	366	42.5	41.8	43.4	41.2	—	3.4	3.3	3.9	2.7	—
Telephone and telegraph apparatus .....	3661	44.6	43.9	45.2	44.0	—	4.1	3.4	4.4	3.4	—
Electronic components and accessories .....	367	41.4	42.0	42.2	41.4	—	4.0	4.3	4.4	3.9	—
Electron tubes .....	3671	42.0	41.5	42.1	41.5	—	3.7	3.6	3.2	1.8	—
Semiconductors and related devices .....	3674	42.5	43.1	43.1	43.6	—	4.9	5.1	5.1	5.0	—
Electronic components, nec .....	3679	41.1	41.6	42.4	41.3	—	3.6	4.1	4.0	3.5	—
Misc. electrical equipment and supplies .....	369	42.0	42.5	42.3	41.4	—	4.5	4.4	5.1	4.4	—
Storage batteries .....	3691	42.5	41.7	43.9	42.4	—	4.5	4.1	5.3	4.6	—
Engine electrical equipment .....	3694	42.5	43.0	43.0	42.3	—	5.2	5.2	5.8	5.1	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$14.45	\$14.34	\$14.71	\$14.66	\$14.63	\$618.46	\$625.22	\$635.47	\$618.65	\$614.46
Engines and turbines .....	351	17.22	16.90	17.97	17.77	—	768.01	770.64	819.43	788.99	—
Turbines and turbine generator sets .....	3511	19.69	19.71	19.99	19.78	—	842.73	839.65	895.55	858.45	—
Internal combustion engines, nec .....	3519	16.44	15.99	17.35	17.17	—	743.09	745.13	796.37	767.50	—
Farm and garden machinery .....	352	13.80	13.81	13.29	12.96	—	572.70	593.83	542.23	528.77	—
Farm machinery and equipment .....	3523	14.50	14.54	14.07	13.59	—	609.00	622.31	578.28	562.63	—
Construction and related machinery .....	353	13.69	13.61	13.98	13.86	—	598.25	609.73	613.72	590.44	—
Construction machinery .....	3531	13.99	14.05	14.05	13.93	—	604.37	626.63	602.75	601.78	—
Mining machinery .....	3532	14.58	14.39	14.75	14.70	—	602.15	615.89	613.60	589.47	—
Oil and gas field machinery .....	3533	13.60	13.36	14.29	14.06	—	640.56	658.65	654.48	604.58	—
Conveyors and conveying equipment .....	3535	13.87	13.81	14.39	14.19	—	589.48	581.40	631.72	584.63	—
Industrial trucks and tractors .....	3537	12.70	12.52	12.87	12.83	—	525.78	520.83	552.12	529.88	—
Metalworking machinery .....	354	15.33	15.20	15.67	15.73	—	662.26	674.88	694.18	674.82	—
Machine tools, metal cutting types .....	3541	15.01	14.83	15.25	15.38	—	651.43	670.32	671.00	658.26	—
Machine tools, metal forming types .....	3542	15.77	15.74	16.27	16.28	—	697.03	720.89	730.52	701.67	—
Special dies, tools, jigs, and fixtures .....	3544	16.06	16.00	16.41	16.50	—	698.61	712.00	736.81	716.10	—
Machine tool accessories .....	3545	13.42	13.25	13.59	13.66	—	569.01	576.38	592.52	573.72	—
Power driven handtools .....	3546	12.53	12.27	12.79	12.81	—	523.75	511.66	543.58	538.02	—
Special industry machinery .....	355	15.08	15.03	15.31	15.31	—	636.38	652.30	656.80	638.43	—
Textile machinery .....	3552	13.13	13.03	13.34	13.32	—	531.77	547.26	549.61	534.13	—
Printing trades machinery .....	3555	16.16	16.18	16.15	16.12	—	677.10	698.98	687.99	665.76	—
Food products machinery .....	3556	14.80	14.56	15.42	15.06	—	626.04	626.08	669.23	624.99	—
General industrial machinery .....	356	14.05	14.03	14.23	14.13	—	595.72	610.31	611.89	592.05	—
Pumps and pumping equipment .....	3561	14.85	14.75	15.28	15.16	—	608.85	603.28	638.70	615.50	—
Ball and roller bearings .....	3562	15.13	15.37	14.88	14.86	—	652.10	685.50	642.82	643.44	—
Air and gas compressors .....	3563	14.78	14.82	14.67	14.54	—	631.11	637.26	632.28	606.32	—
Blowers and fans .....	3564	11.68	11.73	11.93	11.72	—	501.07	509.08	523.73	495.76	—
Speed changers, drives, and gears .....	3566	15.02	14.94	15.46	15.36	—	639.85	685.75	667.87	631.30	—
Power transmission equipment, nec .....	3568	13.56	13.42	13.85	13.82	—	572.23	587.80	585.86	568.00	—
Computer and office equipment .....	357	15.32	14.77	15.85	15.89	—	640.38	618.86	660.95	653.08	—
Electronic computers .....	3571	16.79	16.02	17.76	17.76	—	705.18	672.84	722.83	717.50	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	13.86	13.63	14.09	14.45	—	579.35	587.45	608.69	618.46	—
Refrigeration and service machinery .....	358	13.00	13.08	13.03	12.89	—	566.80	563.75	555.08	538.80	—
Refrigeration and heating equipment .....	3585	13.33	13.43	13.27	13.12	—	590.52	588.23	565.30	552.35	—
Misc. industrial and commercial machinery .....	359	14.07	14.02	14.27	14.29	—	597.98	609.87	617.89	603.04	—
Carburetors, pistons, rings, valves .....	3592	14.56	14.53	14.79	14.86	—	596.96	604.45	622.66	621.15	—
Scales, balances, and industrial machinery, nec .....	3596,9	13.93	13.87	14.11	14.14	—	593.42	603.35	610.96	596.71	—
Electronic and other electrical equipment .....	36	13.11	13.00	13.28	13.28	13.25	542.75	543.40	561.74	545.81	545.90
Electric distribution equipment .....	361	13.09	12.85	13.27	13.19	—	531.45	525.57	562.65	538.15	—
Transformers, except electronic .....	3612	12.07	11.93	12.19	11.99	—	503.32	505.83	536.36	502.38	—
Switchgear and switchboard apparatus .....	3613	14.03	13.77	14.27	14.30	—	555.59	543.92	583.64	570.57	—
Electrical industrial apparatus .....	362	12.48	12.48	12.78	12.79	—	516.67	525.41	549.54	525.67	—
Motors and generators .....	3621	11.57	11.52	11.86	11.90	—	480.16	484.99	517.10	496.23	—
Relays and industrial controls .....	3625	14.23	14.33	14.49	14.40	—	577.74	590.40	610.03	573.12	—
Household appliances .....	363	12.43	12.27	12.59	12.63	—	502.17	509.21	518.71	510.25	—
Household refrigerators and freezers .....	3632	13.61	13.17	14.20	14.37	—	564.82	536.02	602.08	607.85	—
Household laundry equipment .....	3633	13.97	14.30	13.75	13.98	—	560.20	633.49	569.25	535.43	—
Electric housewares and fans .....	3634	10.84	10.64	11.04	11.10	—	435.77	423.47	449.33	446.22	—
Electric lighting and wiring equipment .....	364	12.72	12.78	12.77	12.83	—	524.06	536.76	541.45	533.73	—
Electric lamps .....	3641	16.69	16.25	17.39	17.76	—	685.96	710.13	718.21	710.40	—
Current-carrying wiring devices .....	3643	13.10	13.06	13.47	13.41	—	537.10	556.36	556.31	552.49	—
Noncurrent-carrying wiring devices .....	3644	11.69	11.48	12.00	11.89	—	495.66	503.97	518.40	487.49	—
Residential lighting fixtures .....	3645	9.27	8.97	9.57	9.38	—	362.46	343.55	394.28	379.89	—
Household audio and video equipment .....	365	11.94	11.57	11.98	11.89	—	484.76	463.96	483.99	461.33	—
Household audio and video equipment .....	3651	11.50	11.19	11.73	11.64	—	455.40	440.89	475.07	457.45	—
Communications equipment .....	366	14.02	13.81	14.23	14.13	—	595.85	577.26	617.58	582.16	—
Telephone and telegraph apparatus .....	3661	14.87	14.53	15.04	14.90	—	663.20	637.87	679.81	655.60	—
Electronic components and accessories .....	367	13.25	13.04	13.57	13.60	—	548.55	547.68	572.65	563.04	—
Electron tubes .....	3671	14.90	14.89	14.82	15.03	—	625.80	617.94	623.92	623.75	—
Semiconductors and related devices .....	3674	17.58	17.25	18.26	18.06	—	747.15	743.48	787.01	787.42	—
Electronic components, nec .....	3679	10.76	10.62	11.10	10.96	—	442.24	441.79	470.64	452.65	—
Misc. electrical equipment and supplies .....	369	13.70	13.93	13.37	13.34	—	575.40	592.03	565.55	552.28	—
Storage batteries .....	3691	15.06	14.95	15.00	15.11	—	640.05	623.42	658.50	640.66	—
Engine electrical equipment .....	3694	13.87	14.37	12.90	12.91	—	589.48	617.91	554.70	546.09	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	43.4	43.8	45.7	43.2	43.8	5.5	6.0	6.4	5.1	-
Motor vehicles and equipment .....	371	43.5	43.7	46.8	43.8	44.8	5.7	6.0	7.0	5.4	-
Motor vehicles and car bodies .....	3711	42.8	42.0	46.9	41.5	-	5.4	5.3	7.3	4.5	-
Truck and bus bodies .....	3713	43.8	44.0	45.6	44.4	-	5.7	6.5	5.9	5.2	-
Motor vehicle parts and accessories .....	3714	44.2	44.9	47.4	45.6	-	6.0	6.6	7.2	6.3	-
Truck trailers .....	3715	42.1	42.7	42.8	40.1	-	4.2	5.0	4.0	2.7	-
Aircraft and parts .....	372	44.2	45.0	45.0	43.2	-	6.1	6.9	6.2	5.1	-
Aircraft .....	3721	44.2	45.1	44.3	42.7	-	5.9	6.9	5.5	4.7	-
Aircraft engines and engine parts .....	3724	44.4	44.6	46.0	44.4	-	6.0	6.1	7.0	5.6	-
Aircraft parts and equipment, nec .....	3728	44.1	45.0	45.3	43.3	-	6.3	7.2	6.6	5.4	-
Ship and boat building and repairing .....	373	42.3	43.2	43.2	40.9	-	4.7	5.8	5.3	4.4	-
Ship building and repairing .....	3731	43.5	45.1	44.2	41.5	-	5.5	7.3	6.3	5.0	-
Boat building and repairing .....	3732	40.5	40.5	41.7	40.0	-	3.5	3.5	3.9	3.6	-
Railroad equipment .....	374	43.1	44.7	42.9	41.4	-	4.2	5.1	4.4	3.7	-
Guided missiles, space vehicles, and parts .....	376	42.1	43.3	42.0	42.0	-	3.8	4.4	3.8	3.6	-
Guided missiles and space vehicles .....	3761	41.7	43.3	41.7	41.4	-	3.6	4.0	3.6	3.1	-
Misc. transportation equipment .....	379	40.5	40.4	41.2	41.0	-	3.4	3.3	3.5	3.9	-
Travel trailers and campers .....	3792	38.8	38.0	39.5	39.1	-	2.1	2.0	2.0	2.5	-
Instruments and related products .....	38	41.3	41.9	42.0	41.1	41.5	3.3	3.7	3.5	3.0	-
Search and navigation equipment .....	381	42.3	43.1	42.5	41.4	-	3.5	4.0	3.7	2.9	-
Measuring and controlling devices .....	382	41.2	41.9	42.1	41.4	-	3.1	3.5	3.6	2.9	-
Environmental controls .....	3822	40.5	42.4	42.8	43.0	-	3.9	4.4	4.6	4.0	-
Process control instruments .....	3823	41.1	41.8	41.4	40.4	-	3.1	3.4	3.2	2.8	-
Instruments to measure electricity .....	3825	41.5	40.9	42.2	41.2	-	2.1	2.5	2.5	2.0	-
Medical instruments and supplies .....	384	41.0	41.6	42.0	41.2	-	3.4	3.8	3.7	3.4	-
Surgical and medical instrument .....	3841	41.0	42.2	41.2	41.1	-	3.3	4.2	3.6	3.5	-
Surgical appliances and supplies .....	3842	40.6	40.7	42.6	41.6	-	3.6	3.5	4.2	3.8	-
Ophthalmic goods .....	385	40.8	41.0	40.0	37.8	-	2.5	2.4	1.5	1.5	-
Photographic equipment and supplies .....	386	42.4	42.0	42.2	41.5	-	4.2	4.5	3.6	3.4	-
Watches, clocks, watchcases, and parts .....	387	40.3	41.4	42.3	41.9	-	2.4	3.1	2.8	1.7	-
Miscellaneous manufacturing industries .....	39	39.9	39.9	40.2	39.0	39.5	3.0	2.8	3.1	2.6	-
Jewelry, silverware, and plated ware .....	391	39.2	38.2	39.1	37.5	-	2.7	1.7	3.1	1.9	-
Jewelry, precious metal .....	3911	38.4	37.4	38.1	36.5	-	2.6	1.5	2.8	1.8	-
Musical instruments .....	393	40.4	40.5	41.1	39.4	-	2.7	2.4	3.0	2.2	-
Toys and sporting goods .....	394	39.9	39.8	40.2	39.0	-	2.4	2.3	2.6	2.4	-
Dolls, games, toys, and children's vehicles .....	3942,4	39.1	38.1	39.3	35.5	-	2.0	1.6	2.6	1.2	-
Sporting and athletic goods, nec .....	3949	40.2	40.6	40.6	40.5	-	2.6	2.6	2.6	2.9	-
Pens, pencils, office, and art supplies .....	395	38.7	39.2	39.0	38.8	-	3.1	2.9	2.6	2.8	-
Costume jewelry and notions .....	396	38.6	39.3	38.7	37.2	-	2.4	2.0	2.0	1.7	-
Costume jewelry .....	3961	38.0	38.5	38.0	35.9	-	2.0	0.7	1.6	0.9	-
Miscellaneous manufactures .....	399	40.4	40.7	40.9	39.7	-	3.5	3.7	3.6	3.0	-
Signs and advertising specialties .....	3993	41.2	41.6	41.4	40.1	-	4.2	4.0	4.3	3.2	-
<b>Nondurable goods .....</b>		<b>40.9</b>	<b>40.9</b>	<b>41.6</b>	<b>40.6</b>	<b>40.5</b>	<b>4.3</b>	<b>4.2</b>	<b>4.6</b>	<b>4.2</b>	<b>4.0</b>
Food and kindred products .....	20	41.7	41.4	42.8	41.6	41.2	5.2	4.8	5.6	5.4	-
Meat products .....	201	41.2	41.0	43.0	42.6	-	4.8	4.6	5.9	6.1	-
Meat packing plants .....	2011	43.3	43.4	46.4	46.0	-	5.7	6.0	7.7	8.5	-
Sausages and other prepared meats .....	2013	42.0	41.6	43.8	42.4	-	6.0	5.6	6.9	6.4	-
Poultry slaughtering and processing .....	2015	39.6	39.3	40.7	40.7	-	3.9	3.5	4.4	4.7	-
Dairy products .....	202	42.0	41.4	42.4	41.4	-	5.2	4.6	5.4	5.0	-
Cheese, natural and processed .....	2022	41.6	40.2	43.0	41.1	-	4.5	3.7	5.2	4.1	-
Fluid milk .....	2026	41.7	41.9	42.3	42.1	-	5.0	4.9	5.2	5.2	-
Preserved fruits and vegetables .....	203	41.6	41.7	42.7	41.0	-	5.7	5.1	5.7	4.7	-
Canned specialties .....	2032	43.2	46.8	43.2	40.4	-	7.3	10.7	7.0	4.3	-
Canned fruits and vegetables .....	2033	41.3	40.4	41.7	40.3	-	6.2	4.2	4.2	4.1	-
Frozen fruits and vegetables .....	2037	40.9	40.9	42.4	40.1	-	5.1	4.3	5.9	4.7	-
Grain mill products .....	204	45.7	45.7	45.7	44.5	-	7.4	7.1	7.8	7.6	-
Flour and other grain mill products .....	2041	46.2	45.7	47.1	45.0	-	7.3	6.3	7.4	6.9	-
Prepared feeds, nec .....	2048	44.0	44.3	42.0	43.1	-	6.5	6.5	6.6	7.7	-

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$17.56	\$17.75	\$17.60	\$17.49	\$17.41	\$762.10	\$777.45	\$804.32	\$755.57	\$762.56
Motor vehicles and equipment .....	371	17.94	18.24	17.81	17.69	17.57	780.39	797.09	833.51	774.82	787.14
Motor vehicles and car bodies .....	3711	21.81	22.32	21.02	21.11	—	933.47	937.44	985.84	876.07	—
Truck and bus bodies .....	3713	15.54	16.09	15.17	14.91	—	680.65	707.96	691.75	662.00	—
Motor vehicle parts and accessories .....	3714	16.55	16.79	16.69	16.66	—	731.51	753.87	791.11	759.70	—
Truck trailers .....	3715	11.42	11.36	11.57	11.60	—	480.78	485.07	495.20	465.16	—
Aircraft and parts .....	372	19.11	18.98	19.50	19.33	—	844.66	854.10	877.50	835.06	—
Aircraft .....	3721	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Aircraft engines and engine parts .....	3724	18.93	18.78	19.33	19.23	—	840.49	837.59	889.18	853.81	—
Aircraft parts and equipment, nec .....	3728	16.80	16.77	17.15	16.92	—	740.88	754.65	776.90	732.64	—
Ship and boat building and repairing .....	373	13.36	13.54	13.59	13.73	—	565.13	584.93	587.09	561.56	—
Ship building and repairing .....	3731	14.65	14.98	14.85	15.22	—	637.28	675.60	656.37	631.63	—
Boat building and repairing .....	3732	11.39	11.15	11.76	11.61	—	461.30	451.58	490.39	464.40	—
Railroad equipment .....	374	16.91	17.07	16.35	16.04	—	728.82	763.03	701.42	664.06	—
Guided missiles, space vehicles, and parts .....	376	19.98	19.83	20.16	20.23	—	841.16	858.64	846.72	849.66	—
Guided missiles and space vehicles .....	3761	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Misc. transportation equipment .....	379	11.92	11.72	12.14	12.28	—	482.76	473.49	500.17	503.48	—
Travel trailers and campers .....	3792	12.01	11.81	12.16	12.43	—	465.99	448.78	480.32	486.01	—
Instruments and related products .....	38	13.77	13.64	13.96	13.95	14.00	568.70	571.52	586.32	573.35	581.00
Search and navigation equipment .....	381	17.32	17.31	17.78	17.24	—	732.64	746.06	755.65	713.74	—
Measuring and controlling devices .....	382	13.87	13.62	14.20	14.21	—	571.44	570.68	597.82	588.29	—
Environmental controls .....	3822	12.02	11.78	12.23	12.24	—	486.81	499.47	523.44	526.32	—
Process control instruments .....	3823	13.85	13.40	14.29	14.26	—	569.24	560.12	591.61	576.10	—
Instruments to measure electricity .....	3825	15.98	15.61	16.25	16.27	—	663.17	638.45	685.75	670.32	—
Medical instruments and supplies .....	384	12.79	12.77	12.85	12.92	—	524.39	531.23	539.70	532.30	—
Surgical and medical instrument .....	3841	12.00	12.18	12.05	12.07	—	492.00	514.00	496.46	496.08	—
Surgical appliances and supplies .....	3842	12.00	11.86	12.13	12.19	—	487.20	482.70	516.74	507.10	—
Ophthalmic goods .....	385	10.23	10.28	10.35	10.33	—	417.38	421.48	414.00	390.47	—
Photographic equipment and supplies .....	386	16.29	15.75	16.54	16.68	—	690.70	661.50	697.99	692.22	—
Watches, clocks, watchcases, and parts .....	387	10.42	10.29	10.59	10.39	—	419.93	426.01	447.96	435.34	—
Miscellaneous manufacturing industries .....	39	10.87	10.79	11.10	11.13	11.12	433.71	430.52	446.22	434.07	439.24
Jewelry, silverware, and plated ware .....	391	11.36	11.18	11.53	11.51	—	445.31	427.08	450.82	431.63	—
Jewelry, precious metal .....	3911	11.44	11.34	11.42	11.46	—	439.30	424.12	435.10	418.29	—
Musical instruments .....	393	11.06	10.77	11.37	11.53	—	446.82	436.19	467.31	454.28	—
Toys and sporting goods .....	394	10.42	10.27	10.66	10.60	—	415.76	408.75	428.53	413.40	—
Dolls, games, toys, and children's vehicles .....	3942,4	10.11	9.78	10.51	10.37	—	395.30	372.62	413.04	368.14	—
Sporting and athletic goods, nec .....	3949	10.55	10.47	10.72	10.69	—	424.11	425.08	435.23	432.95	—
Pens, pencils, office, and art supplies .....	395	11.28	11.16	11.13	11.29	—	436.54	437.47	434.07	438.05	—
Costume jewelry and notions .....	396	9.72	9.80	9.80	10.06	—	375.19	385.14	379.26	374.23	—
Costume jewelry .....	3961	8.81	8.82	8.83	9.05	—	334.78	339.57	335.54	324.90	—
Miscellaneous manufactures .....	399	11.07	11.09	11.37	11.37	—	447.23	451.36	465.03	451.39	—
Signs and advertising specialties .....	3993	11.79	11.70	12.24	12.23	—	485.75	486.72	506.74	490.42	—
<b>Nondurable goods .....</b>		<b>12.75</b>	<b>12.56</b>	<b>12.97</b>	<b>12.99</b>	<b>12.98</b>	<b>521.48</b>	<b>513.70</b>	<b>539.55</b>	<b>527.39</b>	<b>525.69</b>
Food and kindred products .....	20	11.80	11.67	12.02	11.95	11.94	492.06	483.14	514.46	497.12	491.93
Meat products .....	201	9.66	9.51	9.90	9.90	—	397.99	389.91	425.70	421.74	—
Meat packing plants .....	2011	10.34	10.23	10.66	10.68	—	447.72	443.98	494.62	491.28	—
Sausages and other prepared meats .....	2013	11.01	10.87	11.15	11.18	—	462.42	452.19	488.37	474.03	—
Poultry slaughtering and processing .....	2015	8.73	8.55	8.90	8.91	—	345.71	336.02	362.23	362.64	—
Dairy products .....	202	13.57	13.27	13.79	13.96	—	569.94	549.38	584.70	577.94	—
Cheese, natural and processed .....	2022	12.40	11.95	12.57	12.71	—	515.84	480.39	540.51	522.38	—
Fluid milk .....	2026	14.20	14.06	14.43	14.54	—	592.14	589.11	610.39	612.13	—
Preserved fruits and vegetables .....	203	11.34	11.29	11.73	11.55	—	471.74	470.79	500.87	473.55	—
Canned specialties .....	2032	14.83	14.66	15.61	14.89	—	640.66	686.09	674.35	601.56	—
Canned fruits and vegetables .....	2033	12.22	12.33	12.95	12.80	—	504.69	498.13	540.02	515.84	—
Frozen fruits and vegetables .....	2037	10.50	10.45	10.72	10.70	—	429.45	427.41	454.53	429.07	—
Grain mill products .....	204	14.89	14.75	15.17	15.08	—	680.47	674.08	693.27	671.06	—
Flour and other grain mill products .....	2041	13.02	12.61	13.17	13.17	—	601.52	576.28	620.31	592.65	—
Prepared feeds, nec .....	2048	11.72	11.68	12.28	12.22	—	515.68	517.42	515.76	526.68	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	40.8	39.9	41.4	39.5	—	4.9	4.2	4.7	4.3	—
Bread, cake, and related products .....	2051	40.6	39.5	41.2	39.8	—	5.0	4.1	4.8	4.5	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	41.2	40.6	41.7	38.8	—	4.7	4.2	4.4	4.0	—
Sugar and confectionery products .....	206	41.3	42.5	43.3	41.6	—	4.4	4.7	5.6	4.9	—
Raw cane sugar .....	2061	53.2	59.5	60.2	57.5	—	11.3	14.9	16.9	15.4	—
Cane sugar refining .....	2062	49.3	48.2	52.1	52.2	—	9.8	9.0	9.2	6.9	—
Beet sugar .....	2063	41.6	43.5	40.1	41.7	—	4.3	4.2	4.1	4.4	—
Candy and other confectionery products .....	2064	40.3	40.9	41.9	39.9	—	3.8	3.8	4.6	4.2	—
Fats and oils .....	207	43.1	43.0	43.6	42.7	—	6.2	6.3	6.5	6.7	—
Beverages .....	208	43.8	42.1	44.9	42.8	—	5.6	4.6	5.1	4.8	—
Malt beverages .....	2082	47.6	46.4	49.6	45.7	—	8.0	7.4	7.0	7.1	—
Bottled and canned soft drinks .....	2086	43.7	41.4	44.2	42.7	—	5.7	4.1	5.4	4.8	—
Misc. food and kindred products .....	209	39.6	39.2	40.2	38.5	—	4.7	4.6	4.8	4.1	—
Tobacco products .....	21	38.2	37.8	37.4	37.4	37.0	2.6	2.6	3.5	2.6	—
Cigarettes .....	211	37.6	37.5	35.6	36.2	—	2.7	3.1	4.3	2.1	—
Textile mill products .....	22	41.0	41.6	41.4	40.8	40.4	4.5	4.7	4.7	4.4	—
Broadwoven fabric mills, cotton .....	221	42.0	42.8	42.0	41.4	—	5.6	5.8	5.6	5.4	—
Broadwoven fabric mills, synthetics .....	222	41.3	41.9	41.7	40.9	—	4.9	5.0	4.8	4.4	—
Broadwoven fabric mills, wool .....	223	38.5	38.9	36.9	35.7	—	3.4	3.9	2.6	2.5	—
Narrow fabric mills .....	224	40.3	40.5	39.1	39.9	—	2.9	3.0	3.3	2.4	—
Knitting mills .....	225	39.9	40.0	39.7	39.7	—	3.5	3.4	3.7	3.6	—
Women's hosiery, except socks .....	2251	38.6	38.0	41.3	40.8	—	2.5	1.3	4.1	4.4	—
Hosiery, nec .....	2252	38.2	38.3	38.8	38.6	—	3.0	3.1	3.1	2.8	—
Knit outerwear mills .....	2253	40.8	40.1	39.4	38.7	—	3.5	3.3	3.2	3.1	—
Knit underwear mills .....	2254	38.1	40.3	36.2	41.4	—	1.6	2.2	1.9	1.8	—
Weft knit fabric mills .....	2257	39.7	39.7	39.4	39.5	—	4.5	4.5	4.2	4.3	—
Textile finishing, except wool .....	226	41.7	42.4	42.7	41.4	—	5.0	5.3	5.4	4.9	—
Finishing plants, cotton .....	2261	42.1	42.3	44.1	43.4	—	5.3	5.2	6.3	6.3	—
Finishing plants, synthetics .....	2262	41.9	43.2	42.5	41.8	—	4.8	5.6	4.9	4.2	—
Carpets and rugs .....	227	42.3	42.8	44.6	43.0	—	5.4	5.9	6.7	5.9	—
Yarn and thread mills .....	228	41.0	41.9	40.9	40.3	—	4.3	4.8	4.1	4.0	—
Yarn spinning mills .....	2281	41.9	42.4	41.8	40.9	—	4.7	5.1	4.4	4.2	—
Throwing and winding mills .....	2282	37.2	39.2	37.4	38.4	—	3.0	3.7	2.8	3.3	—
Miscellaneous textile goods .....	229	41.9	43.1	42.7	41.3	—	4.7	5.0	4.9	4.2	—
Apparel and other textile products .....	23	37.3	37.3	37.9	36.7	37.3	2.1	2.1	2.3	1.9	—
Men's and boys' suits and coats .....	231	37.3	37.1	37.7	36.2	—	0.9	1.2	0.8	0.8	—
Men's and boys' furnishings .....	232	36.6	36.6	36.5	35.4	—	1.5	1.4	1.3	1.1	—
Men's and boys' shirts .....	2321	35.8	36.1	35.1	34.4	—	1.3	1.5	1.1	0.8	—
Men's and boys' trousers and slacks .....	2325	35.7	36.5	35.4	34.4	—	1.3	1.3	1.0	0.8	—
Men's and boys' work clothing .....	2326	37.1	37.8	37.6	36.6	—	1.6	1.5	1.8	1.6	—
Women's and misses' outerwear .....	233	36.3	36.2	36.6	36.2	—	1.5	1.7	1.5	1.7	—
Women's and misses' blouses and shirts .....	2331	35.0	34.5	35.2	34.4	—	1.7	1.3	2.3	2.6	—
Women's, juniors', and misses' dresses .....	2335	36.9	38.2	36.0	36.3	—	1.9	2.2	1.7	2.1	—
Women's and misses' suits and coats .....	2337	37.1	35.2	37.8	36.9	—	1.4	1.0	1.5	1.7	—
Women's and misses' outerwear, nec .....	2339	36.2	36.1	36.8	36.3	—	1.4	1.7	1.4	1.5	—
Women's and children's undergarments .....	234	36.9	37.3	37.5	36.4	—	1.7	1.7	2.4	1.9	—
Women's and children's underwear .....	2341	36.8	36.9	37.7	35.4	—	1.5	1.5	2.3	1.6	—
Brassieres, girdles, and allied garments .....	2342	37.1	38.8	37.1	39.1	—	2.4	2.3	2.5	2.6	—
Girls' and children's outerwear .....	236	36.5	37.5	37.5	36.9	—	3.0	3.2	3.0	2.3	—
Girls' and children's dresses and blouses .....	2361	37.3	37.4	38.6	37.0	—	4.0	3.9	4.7	3.4	—
Misc. apparel and accessories .....	238	36.8	37.2	37.2	35.9	—	1.3	1.3	1.5	0.8	—
Misc. fabricated textile products .....	239	39.2	39.0	40.6	38.7	—	3.4	3.2	4.3	3.2	—
Curtains and draperies .....	2391	35.6	35.3	37.8	36.2	—	1.3	0.9	2.5	1.8	—
House furnishings, nec .....	2392	40.3	40.3	41.3	39.7	—	4.0	4.0	4.8	4.1	—
Automotive and apparel trimmings .....	2396	39.6	39.2	41.7	39.5	—	3.4	3.2	4.7	3.0	—
Paper and allied products .....	26	43.4	43.7	44.3	43.6	43.1	5.5	5.4	5.7	5.3	—
Paper mills .....	262	45.1	45.6	45.3	45.5	—	6.7	6.3	6.6	6.5	—
Paperboard mills .....	263	44.8	44.9	46.0	44.8	—	7.4	6.7	7.7	6.8	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	\$12.75	\$12.49	\$12.81	\$12.74	—	\$520.20	\$498.35	\$530.33	\$503.23	—
Bread, cake, and related products .....	2051	12.81	12.68	12.79	12.79	—	520.09	500.86	526.95	509.04	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	12.64	12.14	12.86	12.65	—	520.77	492.88	536.26	490.82	—
Sugar and confectionery products .....	206	13.05	12.78	13.09	13.15	—	538.97	543.15	566.80	547.04	—
Raw cane sugar .....	2061	11.26	12.43	10.68	11.15	—	599.03	739.59	642.94	641.13	—
Cane sugar refining .....	2062	18.06	18.03	17.87	17.63	—	890.36	869.05	931.03	920.29	—
Beet sugar .....	2063	13.99	13.07	13.72	13.84	—	581.98	568.55	550.17	577.13	—
Candy and other confectionery products .....	2064	12.26	11.90	12.55	12.61	—	494.08	486.71	525.85	503.14	—
Fats and oils .....	207	12.84	12.66	13.10	13.06	—	553.40	544.38	571.16	557.66	—
Beverages .....	208	16.11	16.20	16.41	16.04	—	705.62	682.02	736.81	686.51	—
Malt beverages .....	2082	22.71	22.41	23.77	22.99	—	1,081.00	1,039.82	1,178.99	1,050.64	—
Bottled and canned soft drinks .....	2086	13.35	13.26	13.40	13.30	—	583.40	548.96	592.28	567.91	—
Misc. food and kindred products .....	209	10.67	10.60	10.93	10.98	—	422.53	415.52	439.39	422.73	—
Tobacco products .....	21	18.67	18.49	17.19	17.29	\$17.79	713.19	698.92	642.91	646.65	\$658.23
Cigarettes .....	211	24.34	24.78	24.04	23.96	—	915.18	929.25	855.82	867.35	—
Textile mill products .....	22	10.39	10.26	10.56	10.63	10.61	425.99	426.82	437.18	433.70	428.64
Broadwoven fabric mills, cotton .....	221	10.91	10.73	10.98	11.08	—	458.22	459.24	461.16	458.71	—
Broadwoven fabric mills, synthetics .....	222	11.25	11.13	11.31	11.33	—	464.63	466.35	471.63	463.40	—
Broadwoven fabric mills, wool .....	223	10.82	10.52	10.73	10.85	—	416.57	409.23	395.94	387.35	—
Narrow fabric mills .....	224	9.52	9.39	9.62	9.61	—	383.66	380.30	376.14	383.44	—
Knitting mills .....	225	9.47	9.33	9.65	9.80	—	377.85	373.20	383.11	389.06	—
Women's hosiery, except socks .....	2251	8.82	8.54	8.88	8.86	—	340.45	324.52	366.74	361.49	—
Hosiery, nec .....	2252	9.49	9.42	9.49	9.71	—	362.52	360.79	368.21	374.81	—
Knit outerwear mills .....	2253	8.82	8.73	9.01	9.32	—	359.86	350.07	354.99	360.68	—
Knit underwear mills .....	2254	9.69	9.08	9.75	9.99	—	369.19	365.92	352.95	413.59	—
Weft knit fabric mills .....	2257	10.26	10.18	10.39	10.35	—	407.32	404.15	409.37	408.83	—
Textile finishing, except wool .....	226	10.64	10.52	10.83	10.85	—	443.69	446.05	462.44	449.19	—
Finishing plants, cotton .....	2261	10.52	10.54	10.64	10.70	—	442.89	445.84	469.22	464.38	—
Finishing plants, synthetics .....	2262	11.12	10.97	11.24	11.31	—	465.93	473.90	477.70	472.76	—
Carpets and rugs .....	227	10.36	10.29	10.61	10.78	—	438.23	440.41	473.21	463.54	—
Yarn and thread mills .....	228	10.05	9.96	10.26	10.26	—	412.05	417.32	419.63	413.48	—
Yarn spinning mills .....	2281	10.08	9.98	10.30	10.31	—	422.35	423.15	430.54	421.68	—
Throwing and winding mills .....	2282	10.05	10.09	10.24	10.13	—	373.86	395.53	382.98	388.99	—
Miscellaneous textile goods .....	229	11.88	11.76	12.02	12.07	—	497.77	506.86	513.25	498.49	—
Apparel and other textile products .....	23	8.52	8.41	8.70	8.70	8.70	317.80	313.69	329.73	319.29	324.51
Men's and boys' suits and coats .....	231	8.69	8.60	8.86	8.82	—	324.14	319.06	334.02	319.28	—
Men's and boys' furnishings .....	232	7.98	7.96	8.08	8.16	—	292.07	291.34	294.92	288.86	—
Men's and boys' shirts .....	2321	7.84	7.79	8.07	7.90	—	280.67	281.22	283.26	271.76	—
Men's and boys' trousers and slacks .....	2325	8.20	8.15	8.25	8.40	—	292.74	297.48	292.05	288.96	—
Men's and boys' work clothing .....	2326	7.76	7.84	7.70	7.85	—	287.90	296.35	289.52	287.31	—
Women's and misses' outerwear .....	233	8.18	8.06	8.30	8.28	—	296.93	291.77	303.78	299.74	—
Women's and misses' blouses and shirts .....	2331	7.39	7.39	7.56	7.89	—	258.65	254.96	266.11	271.42	—
Women's, juniors', and misses' dresses .....	2335	9.34	8.90	9.59	9.51	—	344.65	339.98	345.24	345.21	—
Women's and misses' suits and coats .....	2337	8.07	7.86	8.21	8.10	—	299.40	276.67	310.34	298.89	—
Women's and misses' outerwear, nec .....	2339	8.01	7.97	8.10	8.06	—	289.96	287.72	298.08	292.58	—
Women's and children's undergarments .....	234	8.14	8.13	8.28	8.38	—	300.37	303.25	310.50	305.03	—
Women's and children's underwear .....	2341	7.96	7.94	8.15	8.18	—	292.93	292.99	307.26	289.57	—
Brassieres, girdles, and allied garments .....	2342	8.65	8.69	8.66	8.87	—	320.92	337.17	321.29	346.82	—
Girls' and children's outerwear .....	236	8.07	7.69	7.98	8.02	—	294.56	288.38	299.25	295.94	—
Girls' and children's dresses and blouses .....	2361	7.87	7.41	7.90	7.95	—	293.55	277.13	304.94	294.15	—
Misc. apparel and accessories .....	238	8.15	7.99	8.25	8.23	—	299.92	297.23	306.90	295.46	—
Misc. fabricated textile products .....	239	9.39	9.28	9.65	9.65	—	368.09	361.92	391.79	373.46	—
Curtains and draperies .....	2391	8.27	8.31	8.42	8.25	—	294.41	293.34	318.28	298.65	—
House furnishings, nec .....	2392	9.04	8.89	9.31	9.33	—	364.31	358.27	384.50	370.40	—
Automotive and apparel trimmings .....	2396	10.97	11.08	11.33	11.41	—	434.41	434.34	472.46	450.70	—
Paper and allied products .....	26	15.50	15.18	15.77	15.69	15.69	672.70	663.37	698.61	684.08	676.24
Paper mills .....	262	19.80	19.25	20.09	19.82	—	892.98	877.80	910.08	901.81	—
Paperboard mills .....	263	19.57	18.99	20.12	20.05	—	876.74	852.65	925.52	898.24	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	42.9	43.2	44.4	43.1	—	5.3	5.2	6.0	5.2	—
Corrugated and solid fiber boxes .....	2653	43.5	43.3	45.1	43.6	—	5.7	5.2	6.6	5.5	—
Sanitary food containers .....	2656	42.4	42.4	44.2	41.3	—	4.9	4.8	4.7	4.5	—
Folding paperboard boxes .....	2657	42.2	43.6	43.4	42.7	—	5.3	6.1	5.4	5.1	—
Misc. converted paper products .....	267	42.4	42.6	43.0	42.5	—	4.6	4.8	4.6	4.3	—
Paper, coated and laminated, nec .....	2672	42.7	43.8	42.0	42.4	—	4.0	4.6	3.3	3.0	—
Bags: plastics, laminated, and coated .....	2673	42.5	41.4	43.3	42.9	—	5.0	4.5	5.3	5.1	—
Envelopes .....	2677	41.2	42.0	42.3	41.4	—	3.8	4.3	4.5	4.3	—
Printing and publishing .....	27	38.3	38.0	38.7	37.7	37.6	3.2	3.0	3.4	2.8	—
Newspapers .....	271	33.1	32.3	33.8	32.3	—	1.5	1.0	1.9	1.1	—
Periodicals .....	272	36.1	36.1	36.8	36.1	—	2.3	2.0	2.9	2.0	—
Books .....	273	39.3	39.6	40.3	39.6	—	3.7	3.3	4.2	3.2	—
Book publishing .....	2731	37.3	38.1	38.3	37.9	—	2.6	2.6	2.4	1.8	—
Book printing .....	2732	41.4	41.3	42.2	41.1	—	4.9	4.2	5.9	4.5	—
Miscellaneous publishing .....	274	36.4	35.3	36.2	35.1	—	2.6	2.1	2.7	2.0	—
Commercial printing .....	275	39.9	39.8	40.2	39.3	—	3.9	3.8	3.9	3.4	—
Commercial printing, lithographic .....	2752	39.8	39.5	40.0	39.1	—	3.9	3.7	3.7	3.3	—
Commercial printing, nec .....	2759	40.1	40.2	40.7	39.7	—	3.9	3.9	4.0	3.5	—
Manifold business forms .....	276	41.8	41.5	44.8	42.7	—	3.9	3.9	5.9	4.5	—
Blankbooks and bookbinding .....	278	39.4	39.2	40.1	37.8	—	3.0	2.4	3.4	2.6	—
Printing trade services .....	279	39.9	39.3	39.6	39.1	—	4.1	4.4	3.3	3.4	—
Chemicals and allied products .....	28	43.2	43.5	43.5	42.9	42.7	5.1	5.2	5.2	4.8	—
Industrial inorganic chemicals .....	281	45.0	46.9	43.2	42.5	—	5.9	6.0	5.5	5.1	—
Industrial inorganic chemicals, nec .....	2819	44.9	46.2	44.0	43.7	—	5.9	5.8	5.7	5.7	—
Plastics materials and synthetics .....	282	43.5	44.3	43.6	42.9	—	5.3	5.3	5.0	4.9	—
Plastics materials and resins .....	2821	44.3	45.0	45.5	44.3	—	5.2	5.0	5.4	5.1	—
Organic fibers, noncellulosic .....	2824	42.9	42.8	41.3	41.2	—	4.8	5.0	4.2	4.3	—
Drugs .....	283	42.1	41.7	43.4	42.3	—	4.7	5.0	5.1	4.7	—
Pharmaceutical preparations .....	2834	42.3	42.0	43.9	42.6	—	4.5	5.1	4.9	4.5	—
Soap, cleaners, and toilet goods .....	284	41.4	41.7	41.9	41.2	—	3.8	3.8	4.2	3.7	—
Soap and other detergents .....	2841	44.0	43.5	44.9	44.4	—	5.4	4.9	6.0	4.9	—
Polishing, sanitation, and finishing preparations .....	2842,3	41.1	41.5	42.7	41.1	—	3.8	4.1	3.7	4.0	—
Toilet preparations .....	2844	40.4	41.0	40.0	39.5	—	3.0	3.2	3.6	2.8	—
Paints and allied products .....	285	42.6	43.2	43.3	42.2	—	4.5	4.9	4.3	3.6	—
Industrial organic chemicals .....	286	44.7	44.3	45.3	45.0	—	6.3	6.0	6.4	6.1	—
Cyclic crudes and intermediates .....	2865	44.6	44.0	47.4	46.1	—	5.7	5.0	5.9	6.6	—
Industrial organic chemicals, nec .....	2869	44.7	44.4	44.9	44.8	—	6.5	6.2	6.5	6.0	—
Agricultural chemicals .....	287	45.3	45.0	44.8	45.4	—	6.9	6.6	6.5	6.3	—
Miscellaneous chemical products .....	289	43.2	43.2	43.8	43.2	—	4.7	4.7	4.8	4.7	—
Petroleum and coal products .....	29	43.6	44.5	44.8	43.9	43.9	6.5	6.0	6.1	5.9	—
Petroleum refining .....	291	43.4	45.7	45.4	44.1	—	5.9	6.3	5.7	5.4	—
Asphalt paving and roofing materials .....	295	44.5	41.2	43.5	43.4	—	8.6	5.6	7.6	7.4	—
Rubber and misc. plastics products .....	30	41.7	41.9	42.7	41.3	41.4	4.4	4.5	4.7	4.2	—
Tires and inner tubes .....	301	43.0	43.6	43.7	43.2	—	5.8	5.7	5.9	5.5	—
Rubber and plastics footwear .....	302	40.2	40.2	40.0	39.1	—	3.7	1.8	4.5	4.4	—
Hose, belting, gaskets, and packing .....	305	42.2	43.2	43.8	42.5	—	4.4	5.1	5.2	4.2	—
Rubber and plastics hose and belting .....	3052	44.0	43.9	45.6	43.9	—	5.5	5.6	6.1	5.1	—
Fabricated rubber products, nec .....	306	42.1	43.0	43.8	41.4	—	4.3	4.8	4.7	4.1	—
Miscellaneous plastics products, nec .....	308	41.5	41.5	42.3	41.0	—	4.3	4.3	4.6	4.1	—
Leather and leather products .....	31	37.6	37.8	38.1	36.8	37.5	2.2	2.3	2.2	1.8	—
Leather tanning and finishing .....	311	40.4	43.0	41.3	41.0	—	4.3	5.0	4.5	3.7	—
Footwear, except rubber .....	314	36.6	36.2	37.0	35.3	—	1.7	1.8	1.3	1.2	—
Men's footwear, except athletic .....	3143	36.4	36.6	36.7	35.5	—	1.7	2.2	0.9	1.0	—
Women's footwear, except athletic .....	3144	37.0	36.4	36.7	35.9	—	1.8	1.1	1.5	1.7	—
Luggage .....	316	36.8	37.5	36.7	35.8	—	1.6	1.8	2.2	1.6	—
Handbags and personal leather goods .....	317	38.1	37.7	36.7	35.5	—	1.7	1.5	1.9	1.6	—
<b>Service-producing .....</b>		<b>32.9</b>	<b>32.5</b>	<b>32.9</b>	<b>32.4</b>	<b>32.7</b>	—	—	—	—	—
<b>Transportation and public utilities .....</b>		<b>39.5</b>	<b>39.3</b>	<b>39.1</b>	<b>38.7</b>	<b>39.0</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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	\$13.12	\$12.97	\$13.31	\$13.29	—	\$562.85	\$560.30	\$590.96	\$572.80	—
Corrugated and solid fiber boxes .....	2653	13.09	12.89	13.34	13.26	—	569.42	558.14	601.63	578.14	—
Sanitary food containers .....	2656	13.32	13.27	13.38	13.72	—	564.77	562.65	591.40	566.64	—
Folding paperboard boxes .....	2657	13.86	13.75	14.06	13.98	—	584.89	599.50	610.20	596.95	—
Misc. converted paper products .....	267	13.49	13.26	13.83	13.78	—	571.98	564.88	594.69	585.65	—
Paper, coated and laminated, nec .....	2672	15.48	15.10	16.02	15.74	—	661.00	661.38	672.84	667.38	—
Bags: plastics, laminated, and coated .....	2673	12.21	11.98	12.59	12.46	—	518.93	495.97	545.15	534.53	—
Envelopes .....	2677	12.45	12.14	12.76	12.88	—	512.94	509.88	539.75	533.23	—
Printing and publishing .....	27	13.44	13.27	13.67	13.65	\$13.64	514.75	504.26	529.03	514.61	\$512.86
Newspapers .....	271	13.20	13.09	13.40	13.40	—	436.92	422.81	452.92	432.82	—
Periodicals .....	272	14.82	14.73	15.07	14.74	—	535.00	531.75	554.58	532.11	—
Books .....	273	12.69	12.24	13.15	12.98	—	498.72	484.70	529.95	514.01	—
Book publishing .....	2731	11.99	11.67	12.23	12.13	—	447.23	444.63	468.41	459.73	—
Book printing .....	2732	13.36	12.85	13.91	13.71	—	553.10	530.71	587.00	563.48	—
Miscellaneous publishing .....	274	12.92	12.81	12.95	12.84	—	470.29	452.19	468.79	450.68	—
Commercial printing .....	275	13.70	13.50	13.92	13.91	—	546.63	537.30	559.58	546.66	—
Commercial printing, lithographic .....	2752	13.94	13.77	14.14	14.17	—	554.81	543.92	565.60	554.05	—
Commercial printing, nec .....	2759	12.97	12.79	13.21	13.13	—	520.10	514.16	537.65	521.26	—
Manifold business forms .....	276	14.31	14.22	14.71	14.41	—	598.16	590.13	659.01	615.31	—
Blankbooks and bookbinding .....	278	10.52	10.27	10.76	10.80	—	414.49	402.58	431.48	408.24	—
Printing trade services .....	279	16.81	16.88	17.01	17.08	—	670.72	663.38	673.60	667.83	—
Chemicals and allied products .....	28	17.13	16.89	17.31	17.31	17.26	740.02	734.72	752.99	742.60	737.00
Industrial inorganic chemicals .....	281	19.12	18.90	18.88	18.84	—	860.40	886.41	815.62	800.70	—
Industrial inorganic chemicals, nec .....	2819	19.65	19.22	19.46	19.57	—	882.29	887.96	856.24	855.21	—
Plastics materials and synthetics .....	282	17.91	17.56	18.26	18.27	—	779.09	777.91	796.14	783.78	—
Plastics materials and resins .....	2821	19.91	19.68	20.28	20.42	—	882.01	885.60	922.74	904.61	—
Organic fibers, noncellulosic .....	2824	15.07	14.91	15.42	15.35	—	646.50	638.15	636.85	632.42	—
Drugs .....	283	17.03	16.72	17.06	17.03	—	716.96	697.22	740.40	720.37	—
Pharmaceutical preparations .....	2834	16.88	16.63	16.84	16.91	—	714.02	698.46	739.28	720.37	—
Soap, cleaners, and toilet goods .....	284	13.94	13.99	14.42	14.52	—	577.12	583.38	604.20	598.22	—
Soap and other detergents .....	2841	17.69	18.22	17.73	17.86	—	778.36	792.57	796.08	792.98	—
Polishing, sanitation, and finishing preparations .....	2842,3	13.48	13.40	13.82	13.67	—	554.03	556.10	590.11	561.84	—
Toilet preparations .....	2844	12.32	12.21	12.91	12.96	—	497.73	500.61	516.40	511.92	—
Paints and allied products .....	285	14.42	14.33	14.59	14.54	—	614.29	619.06	631.75	613.59	—
Industrial organic chemicals .....	286	20.51	20.04	20.69	20.49	—	916.80	887.77	937.26	922.05	—
Cyclic crudes and intermediates .....	2865	20.34	19.79	20.45	20.30	—	907.16	870.76	969.33	935.83	—
Industrial organic chemicals, nec .....	2869	20.68	20.21	20.87	20.66	—	924.40	897.32	937.06	925.57	—
Agricultural chemicals .....	287	17.11	17.00	17.34	17.38	—	775.08	765.00	776.83	789.05	—
Miscellaneous chemical products .....	289	15.34	15.12	15.59	15.68	—	662.69	653.18	682.84	677.38	—
Petroleum and coal products .....	29	20.90	20.63	21.21	21.25	21.64	911.24	918.04	950.21	932.88	950.00
Petroleum refining .....	291	23.52	22.89	23.55	23.64	—	1,020.77	1,046.07	1,069.17	1,042.52	—
Asphalt paving and roofing materials .....	295	15.51	14.54	15.94	15.29	—	690.20	599.05	693.39	663.59	—
Rubber and misc. plastics products .....	30	11.87	11.74	12.08	12.19	12.16	494.98	491.91	515.82	503.45	503.42
Tires and inner tubes .....	301	18.65	18.43	18.53	19.10	—	801.95	803.55	809.76	825.12	—
Rubber and plastics footwear .....	302	10.07	9.91	10.22	10.30	—	404.81	398.38	408.80	402.73	—
Hose, belting, gaskets, and packing .....	305	11.82	11.65	12.05	12.01	—	498.80	503.28	527.79	510.43	—
Rubber and plastics hose and belting .....	3052	11.89	11.83	11.96	12.09	—	523.16	519.34	545.38	530.75	—
Fabricated rubber products, nec .....	306	11.59	11.49	11.83	11.95	—	487.94	494.07	518.15	494.73	—
Miscellaneous plastics products, nec .....	308	11.22	11.10	11.47	11.53	—	465.63	460.65	485.18	472.73	—
Leather and leather products .....	31	9.34	9.32	9.44	9.66	9.54	351.18	352.30	359.66	355.49	357.75
Leather tanning and finishing .....	311	12.05	11.85	12.24	12.50	—	486.82	509.55	505.51	512.50	—
Footwear, except rubber .....	314	8.91	8.88	9.03	9.27	—	326.11	321.46	334.11	327.23	—
Men's footwear, except athletic .....	3143	9.62	9.59	9.75	10.17	—	350.17	350.99	357.83	361.04	—
Women's footwear, except athletic .....	3144	7.75	7.59	7.94	7.75	—	286.75	276.28	291.40	278.23	—
Luggage .....	316	9.16	9.04	8.75	8.70	—	337.09	339.00	321.13	311.46	—
Handbags and personal leather goods .....	317	8.22	8.16	8.15	8.37	—	313.18	307.63	299.11	297.14	—
<b>Service-producing .....</b>		<b>12.26</b>	<b>12.10</b>	<b>12.49</b>	<b>12.65</b>	<b>12.65</b>	<b>403.35</b>	<b>393.25</b>	<b>410.92</b>	<b>409.86</b>	<b>413.66</b>
<b>Transportation and public utilities .....</b>		<b>15.34</b>	<b>15.27</b>	<b>15.54</b>	<b>15.57</b>	<b>15.57</b>	<b>605.93</b>	<b>600.11</b>	<b>607.61</b>	<b>602.56</b>	<b>607.23</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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	47.1	48.3	44.4	44.4	-	-	-	-	-	-
Local and interurban passenger transit .....	41	34.5	33.7	34.2	32.7	-	-	-	-	-	-
Local and suburban transportation .....	411	38.7	38.3	38.6	38.6	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	38.4	38.5	38.8	37.0	-	-	-	-	-	-
Trucking and warehousing .....	42	40.0	39.0	40.4	39.1	-	-	-	-	-	-
Trucking and courier services, except air .....	421	40.0	38.9	40.3	39.0	-	-	-	-	-	-
Public warehousing and storage .....	422	40.3	40.0	41.3	39.8	-	-	-	-	-	-
Water transportation:											
Water transportation services .....	449	37.7	38.6	37.5	37.0	-	-	-	-	-	-
Pipelines, except natural gas .....	46	44.5	45.4	45.9	44.7	-	-	-	-	-	-
Transportation services .....	47	38.0	36.9	38.2	38.0	-	-	-	-	-	-
Passenger transportation arrangement .....	472	38.0	36.7	38.1	38.6	-	-	-	-	-	-
Travel agencies .....	4724	38.4	36.8	38.9	39.3	-	-	-	-	-	-
Freight transportation arrangement .....	473	37.7	36.7	37.6	36.9	-	-	-	-	-	-
Communications .....	48	40.8	40.6	40.6	40.5	-	-	-	-	-	-
Telephone communications .....	481	42.5	42.2	42.4	41.8	-	-	-	-	-	-
Telephone communications, except radio .....	4813	43.0	42.9	42.7	42.0	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.6	35.4	35.2	35.3	-	-	-	-	-	-
Cable and other pay television services .....	484	39.9	40.0	39.4	40.6	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	42.2	42.1	42.1	42.9	-	-	-	-	-	-
Electric services .....	491	41.8	41.7	40.8	42.1	-	-	-	-	-	-
Gas production and distribution .....	492	42.2	42.0	42.6	43.6	-	-	-	-	-	-
Combination utility services .....	493	42.9	43.8	43.3	44.1	-	-	-	-	-	-
Sanitary services .....	495	42.9	42.0	43.7	43.6	-	-	-	-	-	-
<b>Wholesale trade</b> .....		38.4	38.1	38.4	38.0	38.3	-	-	-	-	-
Durable goods .....	50	39.0	38.9	39.0	38.7	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	37.5	37.6	37.7	37.4	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.5	38.1	37.4	37.3	-	-	-	-	-	-
Lumber and other construction materials .....	503	39.8	39.0	40.4	39.3	-	-	-	-	-	-
Professional and commercial equipment .....	504	39.8	39.5	39.5	39.3	-	-	-	-	-	-
Medical and hospital equipment .....	5047	39.4	39.2	39.5	39.2	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	41.1	41.1	41.4	41.0	-	-	-	-	-	-
Electrical goods .....	506	39.2	38.9	39.4	39.1	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	39.0	39.0	38.9	38.8	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.5	39.3	39.3	39.0	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	37.0	37.3	36.8	36.3	-	-	-	-	-	-
Nondurable goods .....	51	37.4	36.9	37.6	37.1	-	-	-	-	-	-
Paper and paper products .....	511	37.0	36.5	37.3	36.6	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	36.5	36.1	36.9	37.1	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.9	37.0	36.2	35.7	-	-	-	-	-	-
Groceries and related products .....	514	38.4	37.8	38.8	38.1	-	-	-	-	-	-
Farm-product raw materials .....	515	34.3	32.7	33.6	33.3	-	-	-	-	-	-
Chemicals and allied products .....	516	40.0	39.9	40.2	40.1	-	-	-	-	-	-
Petroleum and petroleum products .....	517	37.7	37.7	38.3	38.1	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	37.8	37.2	37.6	37.0	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	36.3	35.6	36.3	35.7	-	-	-	-	-	-
<b>Retail trade</b> .....		29.1	28.1	29.3	28.1	28.7	-	-	-	-	-
Building materials and garden supplies .....	52	34.9	33.8	34.9	34.3	-	-	-	-	-	-
Lumber and other building materials .....	521	36.5	35.1	36.5	35.9	-	-	-	-	-	-
Paint, glass, and wallpaper stores .....	523	35.3	34.7	34.8	34.7	-	-	-	-	-	-
Hardware stores .....	525	30.8	30.4	30.7	30.1	-	-	-	-	-	-
Retail nurseries and garden stores .....	526	31.7	29.5	31.8	30.4	-	-	-	-	-	-

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	\$17.95	\$18.10	\$17.76	\$17.78	—	\$845.45	\$874.23	\$788.54	\$789.43	—
Local and interurban passenger transit .....	41	11.17	11.10	11.32	11.49	—	385.37	374.07	387.14	375.72	—
Local and suburban transportation .....	411	11.70	11.66	11.90	12.06	—	452.79	446.58	459.34	465.52	—
Intercity and rural bus transportation .....	413	12.99	13.41	12.63	13.12	—	498.82	516.29	490.04	485.44	—
Trucking and warehousing .....	42	13.62	13.48	13.78	13.74	—	544.80	525.72	556.71	537.23	—
Trucking and courier services, except air .....	421	13.85	13.71	14.00	13.95	—	554.00	533.32	564.20	544.05	—
Public warehousing and storage .....	422	11.16	11.12	11.48	11.56	—	449.75	444.80	474.12	460.09	—
Water transportation:											
Water transportation services .....	449	20.52	20.57	21.11	21.03	—	773.60	794.00	791.63	778.11	—
Pipelines, except natural gas .....	46	20.64	20.33	20.88	21.62	—	918.48	922.98	958.39	966.41	—
Transportation services .....	47	13.64	13.35	14.36	13.96	—	518.32	492.62	548.55	530.48	—
Passenger transportation arrangement .....	472	14.04	13.63	15.16	14.15	—	533.52	500.22	577.60	546.19	—
Travel agencies .....	4724	14.35	13.89	15.59	14.42	—	551.04	511.15	606.45	566.71	—
Freight transportation arrangement .....	473	13.54	13.32	14.01	14.12	—	510.46	488.84	526.78	521.03	—
Communications .....	48	17.30	17.41	17.64	17.49	—	705.84	706.85	716.18	708.35	—
Telephone communications .....	481	17.79	18.02	18.08	17.96	—	756.08	760.44	766.59	750.73	—
Telephone communications, except radio .....	4813	18.30	18.55	18.71	18.46	—	786.90	795.80	798.92	775.32	—
Radio and television broadcasting .....	483	17.79	17.51	18.37	18.12	—	633.32	619.85	646.62	639.64	—
Cable and other pay television services .....	484	14.14	14.01	14.48	14.35	—	564.19	560.40	570.51	582.61	—
Electric, gas, and sanitary services .....	49	19.97	19.79	20.21	20.46	—	842.73	833.16	850.84	877.73	—
Electric services .....	491	21.01	20.85	21.39	21.59	—	878.22	869.45	872.71	908.94	—
Gas production and distribution .....	492	18.56	18.26	18.90	18.91	—	783.23	766.92	805.14	824.48	—
Combination utility services .....	493	24.30	24.36	23.85	24.69	—	1,042.47	1,066.97	1,032.70	1,088.83	—
Sanitary services .....	495	15.70	15.13	16.26	16.22	—	673.53	635.46	710.56	707.19	—
<b>Wholesale trade</b> .....		14.01	13.77	14.27	14.35	\$14.33	537.98	524.64	547.97	545.30	\$548.84
Durable goods .....											
Motor vehicles, parts, and supplies .....	501	12.96	12.79	13.08	13.23	—	486.00	480.90	493.12	494.80	—
Furniture and home furnishings .....	502	13.02	12.63	13.21	13.15	—	488.25	481.20	494.05	490.50	—
Lumber and other construction materials .....	503	13.19	12.97	13.43	13.57	—	524.96	505.83	542.57	533.30	—
Professional and commercial equipment .....	504	17.27	16.91	17.57	17.74	—	687.35	667.95	694.02	697.18	—
Medical and hospital equipment .....	5047	17.16	16.62	17.57	17.41	—	676.10	651.50	694.02	682.47	—
Metals and minerals, except petroleum .....	505	13.95	13.78	13.91	13.95	—	573.35	566.36	575.87	571.95	—
Electrical goods .....	506	15.72	15.46	15.95	15.98	—	616.22	601.39	628.43	624.82	—
Hardware, plumbing, and heating equipment .....	507	13.76	13.55	13.97	14.03	—	536.64	528.45	543.43	544.36	—
Machinery, equipment, and supplies .....	508	14.70	14.43	15.06	15.19	—	580.65	567.10	591.86	592.41	—
Misc. wholesale trade durable goods .....	509	11.38	11.18	11.57	11.71	—	421.06	417.01	425.78	425.07	—
Nondurable goods .....											
Paper and paper products .....	511	13.58	13.24	13.65	13.72	—	502.46	483.26	509.15	502.15	—
Drugs, proprietaries, and sundries .....	512	17.23	16.51	17.79	17.48	—	628.90	596.01	656.45	648.51	—
Apparel, piece goods, and notions .....	513	12.84	12.73	13.14	13.28	—	473.80	471.01	475.67	474.10	—
Groceries and related products .....	514	13.25	13.03	13.37	13.25	—	508.80	492.53	518.76	504.83	—
Farm-product raw materials .....	515	9.98	9.84	10.21	10.29	—	342.31	321.77	343.06	342.66	—
Chemicals and allied products .....	516	15.03	14.62	15.47	15.70	—	601.20	583.34	621.89	629.57	—
Petroleum and petroleum products .....	517	11.95	12.00	12.14	12.17	—	450.52	452.40	464.96	463.68	—
Beer, wine, and distilled beverages .....	518	15.30	15.11	15.77	15.44	—	578.34	562.09	592.95	571.28	—
Misc. wholesale trade nondurable goods .....	519	10.84	10.73	11.10	11.23	—	393.49	381.99	402.93	400.91	—
<b>Retail trade</b> .....		8.75	8.63	8.90	9.02	8.99	254.63	242.50	260.77	253.46	258.01
Building materials and garden supplies .....											
Lumber and other building materials .....	521	10.73	10.50	11.06	11.09	—	391.65	368.55	403.69	398.13	—
Paint, glass, and wallpaper stores .....	523	10.63	10.49	10.84	10.67	—	375.24	364.00	377.23	370.25	—
Hardware stores .....	525	8.56	8.45	8.63	8.72	—	263.65	256.88	264.94	262.47	—
Retail nurseries and garden stores .....	526	9.20	9.38	9.58	9.89	—	291.64	276.71	304.64	300.66	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	29.8	28.2	31.0	28.9	-	-	-	-	-	-
Department stores .....	531	29.9	28.2	31.1	28.9	-	-	-	-	-	-
Variety stores .....	533	27.7	26.0	29.4	26.4	-	-	-	-	-	-
Misc. general merchandise stores .....	539	30.3	29.1	31.0	29.7	-	-	-	-	-	-
Food stores .....	54	29.9	29.1	29.4	29.0	-	-	-	-	-	-
Grocery stores .....	541	30.1	29.2	29.4	29.2	-	-	-	-	-	-
Retail bakeries .....	546	28.9	27.8	28.8	27.3	-	-	-	-	-	-
Automotive dealers and service stations .....	55	35.5	35.2	35.3	35.1	-	-	-	-	-	-
New and used car dealers .....	551	36.9	36.7	36.8	36.5	-	-	-	-	-	-
Auto and home supply stores .....	553	38.0	37.2	37.8	37.1	-	-	-	-	-	-
Gasoline service stations .....	554	31.9	31.6	31.6	31.7	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.5	35.7	35.3	35.3	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.7	25.9	27.3	25.0	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	28.5	28.0	29.4	28.0	-	-	-	-	-	-
Women's clothing stores .....	562	24.3	23.7	24.2	22.2	-	-	-	-	-	-
Family clothing stores .....	565	27.6	26.8	28.8	25.9	-	-	-	-	-	-
Shoe stores .....	566	26.6	25.9	27.2	25.4	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	33.1	32.5	33.4	32.2	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	32.9	32.2	33.3	32.3	-	-	-	-	-	-
Household appliance stores .....	572	34.3	34.0	35.0	33.6	-	-	-	-	-	-
Radio, television, and computer stores .....	573	33.1	32.7	33.3	32.0	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	33.0	33.0	34.8	32.3	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	25.7	24.5	24.9	24.4	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.5	24.4	25.4	24.2	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	29.6	28.9	30.4	28.8	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	28.8	28.6	29.0	28.8	-	-	-	-	-	-
Used merchandise stores .....	593	30.3	30.3	30.5	29.6	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	27.9	26.7	28.8	26.5	-	-	-	-	-	-
Nonstore retailers .....	596	32.7	31.9	35.2	32.4	-	-	-	-	-	-
Fuel dealers .....	598	37.5	38.6	38.2	39.7	-	-	-	-	-	-
Retail stores, nec .....	599	30.8	29.6	31.3	29.2	-	-	-	-	-	-
Optical goods stores .....	5995	33.7	33.2	33.5	33.5	-	-	-	-	-	-
Miscellaneous retail stores, nec .....	5999	30.8	29.7	31.1	29.5	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.4</b>	<b>36.1</b>	<b>36.2</b>	<b>36.0</b>	<b>36.4</b>	-	-	-	-	-
Depository institutions .....	60	35.5	35.1	35.2	35.3	-	-	-	-	-	-
Commercial banks .....	602	35.4	34.8	35.0	35.1	-	-	-	-	-	-
State commercial banks .....	6022	35.3	35.0	35.0	35.0	-	-	-	-	-	-
National and commercial banks, nec .....	6021,9	35.4	34.7	35.0	35.2	-	-	-	-	-	-
Credit unions .....	606	35.8	35.8	35.6	35.5	-	-	-	-	-	-
Nondepository institutions .....	61	38.5	37.4	38.3	37.6	-	-	-	-	-	-
Personal credit institutions .....	614	38.7	37.5	38.6	38.0	-	-	-	-	-	-
Security and commodity brokers: Security and commodity services .....	628	38.5	37.4	37.6	38.1	-	-	-	-	-	-
Insurance carriers .....	63	39.0	39.0	39.0	38.4	-	-	-	-	-	-
Life insurance .....	631	39.0	38.5	38.8	38.6	-	-	-	-	-	-
Medical service and health insurance .....	632	39.0	39.3	38.5	38.5	-	-	-	-	-	-
Hospital and medical service plans .....	6324	39.4	39.8	38.9	38.9	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	39.1	39.6	39.6	38.2	-	-	-	-	-	-
<b>Services</b> .....		<b>32.7</b>	<b>32.4</b>	<b>32.6</b>	<b>32.3</b>	<b>32.6</b>	-	-	-	-	-
Agricultural services .....	07	34.7	31.9	33.8	32.6	-	-	-	-	-	-

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	\$8.59	\$8.43	\$8.62	\$8.77	—	\$255.98	\$237.73	\$267.22	\$253.45	—
Department stores .....	531	8.65	8.47	8.68	8.83	—	258.64	238.85	269.95	255.19	—
Variety stores .....	533	7.74	7.67	7.71	7.98	—	214.40	199.42	226.67	210.67	—
Misc. general merchandise stores .....	539	8.35	8.33	8.45	8.48	—	253.01	242.40	261.95	251.86	—
Food stores .....	54	9.07	8.94	9.15	9.27	—	271.19	260.15	269.01	268.83	—
Grocery stores .....	541	9.16	9.04	9.26	9.35	—	275.72	263.97	272.24	273.02	—
Retail bakeries .....	546	8.10	7.86	8.30	8.36	—	234.09	218.51	239.04	228.23	—
Automotive dealers and service stations .....	55	12.09	11.59	12.23	12.26	—	429.20	407.97	431.72	430.33	—
New and used car dealers .....	551	15.21	14.45	15.30	15.32	—	561.25	530.32	563.04	559.18	—
Auto and home supply stores .....	553	9.99	9.67	10.21	10.21	—	379.62	359.72	385.94	378.79	—
Gasoline service stations .....	554	7.83	7.69	8.00	8.06	—	249.78	243.00	252.80	255.50	—
Automotive dealers, nec .....	559	13.21	12.84	13.62	13.43	—	468.96	458.39	480.79	474.08	—
Apparel and accessory stores .....	56	8.45	8.28	8.56	8.72	—	225.62	214.45	233.69	218.00	—
Men's and boys' clothing stores .....	561	10.25	10.31	10.28	10.35	—	292.13	288.68	302.23	289.80	—
Women's clothing stores .....	562	8.35	8.17	8.46	8.65	—	202.91	193.63	204.73	192.03	—
Family clothing stores .....	565	8.22	7.89	8.35	8.45	—	226.87	211.45	240.48	218.86	—
Shoe stores .....	566	8.23	8.23	8.37	8.42	—	218.92	213.16	227.66	213.87	—
Furniture and home furnishings stores .....	57	11.87	11.73	12.14	12.05	—	392.90	381.23	405.48	388.01	—
Furniture and home furnishings stores .....	571	11.21	10.95	11.59	11.53	—	368.81	352.59	385.95	372.42	—
Household appliance stores .....	572	11.27	11.05	11.61	11.44	—	386.56	375.70	406.35	384.38	—
Radio, television, and computer stores .....	573	12.73	12.73	12.83	12.73	—	421.36	416.27	427.24	407.36	—
Radio, television, and electronic stores .....	5731	11.77	11.54	12.33	11.88	—	388.41	380.82	429.08	383.72	—
Record and prerecorded tape stores .....	5735	7.20	7.33	7.10	7.22	—	185.04	179.59	176.79	176.17	—
Eating and drinking places <sup>4</sup> .....	58	6.35	6.24	6.52	6.50	—	161.93	152.26	165.61	157.30	—
Miscellaneous retail establishments .....	59	9.46	9.41	9.53	9.81	—	280.02	271.95	289.71	282.53	—
Drug stores and proprietary stores .....	591	10.05	9.91	10.19	10.22	—	289.44	283.43	295.51	294.34	—
Used merchandise stores .....	593	7.90	7.73	8.08	8.17	—	239.37	234.22	246.44	241.83	—
Miscellaneous shopping goods stores .....	594	8.75	8.86	8.72	9.14	—	244.13	236.56	251.14	242.21	—
Nonstore retailers .....	596	9.99	9.84	10.08	10.25	—	326.67	313.90	354.82	332.10	—
Fuel dealers .....	598	12.74	12.88	13.26	13.61	—	477.75	497.17	506.53	540.32	—
Retail stores, nec .....	599	9.55	9.30	9.74	9.91	—	294.14	275.28	304.86	289.37	—
Optical goods stores .....	5995	11.19	11.11	11.49	11.44	—	377.10	368.85	384.92	383.24	—
Miscellaneous retail stores, nec .....	5999	9.91	9.61	10.09	10.28	—	305.23	285.42	313.80	303.26	—
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		14.06	13.70	14.40	14.45	\$14.52	511.78	494.57	521.28	520.20	\$528.53
Depository institutions .....	60	10.83	10.57	11.12	11.17	—	384.47	371.01	391.42	394.30	—
Commercial banks .....	602	10.40	10.11	10.68	10.76	—	368.16	351.83	373.80	377.68	—
State commercial banks .....	6022	10.17	9.98	10.37	10.47	—	359.00	349.30	362.95	366.45	—
National and commercial banks, nec .....	6021,9	10.56	10.20	10.91	10.98	—	373.82	353.94	381.85	386.50	—
Credit unions .....	606	10.59	10.46	10.78	10.87	—	379.12	374.47	383.77	385.89	—
Nondepository institutions .....	61	14.55	14.11	14.98	14.84	—	560.18	527.71	573.73	557.98	—
Personal credit institutions .....	614	12.19	11.85	12.23	12.08	—	471.75	444.38	472.08	459.04	—
Security and commodity brokers:											
Security and commodity services .....	628	20.79	20.28	21.27	21.81	—	800.42	758.47	799.75	830.96	—
Insurance carriers .....	63	16.65	16.26	16.76	16.84	—	649.35	634.14	653.64	646.66	—
Life insurance .....	631	15.08	14.74	15.28	15.19	—	588.12	567.49	592.86	586.33	—
Medical service and health insurance .....	632	15.75	15.05	16.10	16.11	—	614.25	591.47	619.85	620.24	—
Hospital and medical service plans .....	6324	16.11	15.37	16.51	16.53	—	634.73	611.73	642.24	643.02	—
Fire, marine, and casualty insurance .....	633	18.12	17.88	18.04	18.40	—	708.49	708.05	714.38	702.88	—
<b>Services</b> .....		12.84	12.66	13.18	13.30	13.32	419.87	410.18	429.67	429.59	434.23
Agricultural services .....	07	9.95	10.01	10.25	10.28	—	345.27	319.32	346.45	335.13	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	28.9	28.4	28.1	27.9	-	-	-	-	-	-
Landscape and horticultural services .....	078	37.2	33.7	36.3	34.9	-	-	-	-	-	
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	31.3	29.7	30.0	29.7	-	-	-	-	-	
Personal services:											
Laundry, cleaning, and garment services .....	721	34.1	33.4	34.4	33.2	-	-	-	-	-	
Beauty shops <sup>4</sup> .....	723	28.1	27.7	28.4	27.2	-	-	-	-	-	
Miscellaneous personal services .....	729	26.7	24.0	26.6	21.0	-	-	-	-	-	
Business services											
Advertising .....	731	36.8	36.2	36.6	36.8	-	-	-	-	-	
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	36.6	37.2	36.0	36.3	-	-	-	-	-	
Services to buildings .....	734	28.5	28.1	28.6	28.2	-	-	-	-	-	
Disinfecting and pest control services .....	7342	37.7	35.4	38.2	36.2	-	-	-	-	-	
Building maintenance services, nec .....	7349	27.6	27.4	27.7	27.4	-	-	-	-	-	
Miscellaneous equipment rental and leasing .....	735	38.9	38.0	39.2	38.5	-	-	-	-	-	
Medical equipment rental .....	7352	36.8	36.8	37.4	36.6	-	-	-	-	-	
Heavy construction equipment rental .....	7353	40.8	39.3	41.0	40.6	-	-	-	-	-	
Equipment rental and leasing, nec .....	7359	38.8	37.9	39.0	38.2	-	-	-	-	-	
Personnel supply services:											
Help supply services .....	7363	32.4	32.6	33.0	32.6	-	-	-	-	-	
Computer and data processing services .....	737	38.5	38.2	38.3	38.2	-	-	-	-	-	
Computer programming services .....	7371	38.1	37.9	38.6	37.9	-	-	-	-	-	
Computer integrated systems design .....	7373	39.8	39.1	39.1	39.6	-	-	-	-	-	
Information retrieval services .....	7375	38.6	38.4	38.9	38.6	-	-	-	-	-	
Computer maintenance and repair .....	7378	39.5	38.5	39.7	38.7	-	-	-	-	-	
Miscellaneous business services .....	738	33.1	32.7	33.6	33.0	-	-	-	-	-	
Detective and armored car services .....	7381	34.6	34.0	34.9	34.6	-	-	-	-	-	
Security systems services .....	7382	36.3	35.7	36.9	37.3	-	-	-	-	-	
Auto repair, services, and parking											
Automotive rentals, without drivers .....	751	36.8	36.4	35.8	35.9	-	-	-	-	-	
Passenger car rental .....	7514	36.9	36.3	35.5	35.4	-	-	-	-	-	
Automobile parking .....	752	32.7	32.8	32.9	33.3	-	-	-	-	-	
Automotive repair shops .....	753	38.0	38.0	37.9	37.8	-	-	-	-	-	
Automotive and tire repair shops .....	7532,4	38.1	38.1	38.2	37.9	-	-	-	-	-	
General automotive repair shops .....	7538	37.7	37.6	37.7	37.7	-	-	-	-	-	
Automotive services, except repair .....	754	30.9	29.2	30.4	30.0	-	-	-	-	-	
Carwashes .....	7542	27.8	24.9	27.3	26.1	-	-	-	-	-	
Miscellaneous repair services .....	76	38.2	38.0	37.9	37.5	-	-	-	-	-	
Motion pictures											
Motion picture production and services .....	781	39.1	38.8	40.4	40.5	-	-	-	-	-	
Video tape rental .....	784	23.5	23.9	23.2	23.0	-	-	-	-	-	
Amusement and recreation services											
Bowling centers .....	793	24.9	24.8	25.1	25.0	-	-	-	-	-	
Misc. amusement and recreation services .....	799	26.5	25.5	25.9	25.2	-	-	-	-	-	
Physical fitness facilities .....	7991	19.5	19.0	19.0	19.0	-	-	-	-	-	
Membership sports and recreation clubs .....	7997	28.2	27.1	28.7	26.7	-	-	-	-	-	
Health services											
Offices and clinics of medical doctors .....	801	32.9	33.1	32.8	32.5	-	-	-	-	-	
Offices and clinics of dentists .....	802	28.2	28.1	28.4	27.7	-	-	-	-	-	
Offices and clinics of other health practitioners .....	804	30.2	30.0	30.1	29.9	-	-	-	-	-	
Nursing and personal care facilities .....	805	32.6	32.4	32.5	32.4	-	-	-	-	-	
Intermediate care facilities .....	8052	31.8	31.7	31.8	31.5	-	-	-	-	-	
Hospitals .....	806	35.0	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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	\$9.93	\$9.81	\$10.16	\$10.17	—	\$286.98	\$278.60	\$285.50	\$283.74	—
Landscape and horticultural services .....	078	10.01	10.19	10.34	10.37	—	372.37	343.40	375.34	361.91	—
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	8.92	8.86	9.23	9.19	—	279.20	263.14	276.90	272.94	—
Personal services:											
Laundry, cleaning, and garment services .....	721	8.40	8.21	8.60	8.61	—	286.44	274.21	295.84	285.85	—
Beauty shops <sup>4</sup> .....	723	9.40	9.23	9.72	9.40	—	264.14	255.67	276.05	255.68	—
Miscellaneous personal services .....	729	9.02	8.78	9.54	9.13	—	240.83	210.72	253.76	191.73	—
Business services											
Advertising .....	731	12.55	12.23	12.79	13.05	—	420.43	408.48	433.58	437.18	—
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	11.25	11.21	11.46	11.66	—	411.75	417.01	412.56	423.26	—
Services to buildings .....	734	8.25	8.09	8.35	8.41	—	235.13	227.33	238.81	237.16	—
Disinfecting and pest control services .....	7342	11.31	10.89	11.42	11.43	—	426.39	385.51	436.24	413.77	—
Building maintenance services, nec .....	7349	7.84	7.75	7.94	8.03	—	216.38	212.35	219.94	220.02	—
Miscellaneous equipment rental and leasing .....	735	12.68	12.29	13.13	13.08	—	493.25	467.02	514.70	503.58	—
Medical equipment rental .....	7352	12.51	12.02	12.99	13.28	—	460.37	442.34	485.83	486.05	—
Heavy construction equipment rental .....	7353	16.45	15.78	17.02	16.79	—	671.16	620.15	697.82	681.67	—
Equipment rental and leasing, nec .....	7359	11.58	11.32	11.95	11.85	—	449.30	429.03	466.05	452.67	—
Personnel supply services:											
Help supply services .....	7363	10.18	10.01	10.35	10.53	—	329.83	326.33	341.55	343.28	—
Computer and data processing services .....	737	21.16	20.48	21.58	21.64	—	814.66	782.34	826.51	826.65	—
Computer programming services .....	7371	24.43	23.64	24.79	24.84	—	930.78	895.96	956.89	941.44	—
Computer integrated systems design .....	7373	20.85	20.57	21.07	20.92	—	829.83	804.29	823.84	828.43	—
Information retrieval services .....	7375	15.83	16.06	15.67	16.05	—	611.04	616.70	609.56	619.53	—
Computer maintenance and repair .....	7378	16.46	15.35	17.50	17.02	—	650.17	590.98	694.75	658.67	—
Miscellaneous business services .....	738	10.13	9.96	10.25	10.38	—	335.30	325.69	344.40	342.54	—
Detective and armored car services .....	7381	8.25	8.08	8.48	8.49	—	285.45	274.72	295.95	293.75	—
Security systems services .....	7382	13.40	12.75	13.91	13.81	—	486.42	455.18	513.28	515.11	—
Auto repair, services, and parking											
Automotive rentals, without drivers .....	751	10.54	10.43	10.76	10.88	—	387.87	379.65	385.21	390.59	—
Passenger car rental .....	7514	9.54	9.42	9.65	9.82	—	352.03	341.95	342.58	347.63	—
Automobile parking .....	752	8.19	8.14	8.44	8.44	—	267.81	266.99	277.68	281.05	—
Automotive repair shops .....	753	12.43	12.17	12.67	12.70	—	472.34	462.46	480.19	480.06	—
Automotive and tire repair shops .....	7532,4	13.04	12.81	13.41	13.38	—	496.82	488.06	512.26	507.10	—
General automotive repair shops .....	7538	12.35	12.14	12.44	12.50	—	465.60	456.46	468.99	471.25	—
Automotive services, except repair .....	754	8.45	8.40	8.65	8.58	—	261.11	245.28	262.96	257.40	—
Carwashes .....	7542	7.42	7.30	7.64	7.60	—	206.28	181.77	208.57	198.36	—
Miscellaneous repair services											
.....	76	13.26	12.95	13.56	13.67	—	506.53	492.10	513.92	512.63	—
Motion pictures											
Motion picture production and services .....	781	20.19	20.39	20.87	21.07	—	789.43	791.13	843.15	853.34	—
Video tape rental .....	784	7.21	7.04	7.17	7.26	—	169.44	168.26	166.34	166.98	—
Amusement and recreation services											
Bowling centers .....	793	7.61	7.44	7.64	7.65	—	189.49	184.51	191.76	191.25	—
Misc. amusement and recreation services .....	799	8.86	9.08	9.40	9.34	—	234.79	231.54	243.46	235.37	—
Physical fitness facilities .....	7991	8.78	8.74	9.06	9.05	—	171.21	166.06	172.14	171.95	—
Membership sports and recreation clubs .....	7997	9.39	9.57	10.02	10.00	—	264.80	259.35	287.57	267.00	—
Health services											
Offices and clinics of medical doctors .....	801	14.28	14.12	14.55	14.60	—	469.81	467.37	477.24	474.50	—
Offices and clinics of dentists .....	802	14.15	13.96	14.50	14.46	—	399.03	392.28	411.80	400.54	—
Offices and clinics of other health practitioners .....	804	13.13	12.99	12.99	12.98	—	396.53	389.70	391.00	388.10	—
Nursing and personal care facilities .....	805	9.76	9.62	9.94	10.00	—	318.18	311.69	323.05	324.00	—
Intermediate care facilities .....	8052	9.29	9.12	9.52	9.60	—	295.42	289.10	302.74	302.40	—
Hospitals .....	806	15.46	15.27	15.71	15.80	—	541.10	537.50	548.28	551.42	—

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999P	Feb. 1999P
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	29.0	29.2	28.8	28.9	-	-	-	-	-	-
Legal services .....	81	35.0	34.6	34.8	34.6	-	-	-	-	-	-
Social services .....	83	31.3	31.0	31.3	31.1	-	-	-	-	-	-
Individual and family services .....	832	31.4	31.2	31.6	31.4	-	-	-	-	-	-
Job training and related services .....	833	30.7	30.6	30.7	30.5	-	-	-	-	-	-
Child day care services .....	835	30.0	29.4	29.5	29.1	-	-	-	-	-	-
Residential care .....	836	32.3	32.0	32.2	32.3	-	-	-	-	-	-
Social services, nec .....	839	32.3	32.3	32.7	32.5	-	-	-	-	-	-
Membership organizations:											
Professional organizations .....	862	35.2	34.8	35.1	35.2	-	-	-	-	-	-
Engineering and management services .....	87	37.3	37.1	37.1	37.0	-	-	-	-	-	-
Engineering and architectural services .....	871	39.4	39.0	39.2	38.8	-	-	-	-	-	-
Engineering services .....	8711	39.6	39.3	39.6	39.2	-	-	-	-	-	-
Architectural services .....	8712	38.4	38.2	37.9	38.2	-	-	-	-	-	-
Surveying services .....	8713	38.3	37.4	37.9	35.9	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	36.8	36.9	35.9	36.5	-	-	-	-	-	-
Research and testing services .....	873	36.4	36.2	36.3	36.2	-	-	-	-	-	-
Commercial physical research .....	8731	39.9	40.0	39.1	39.5	-	-	-	-	-	-
Commercial nonphysical research .....	8732	30.4	29.5	31.8	30.8	-	-	-	-	-	-
Noncommercial research organizations .....	8733	36.0	35.7	35.7	36.1	-	-	-	-	-	-
Management and public relations .....	874	36.2	35.8	36.1	36.2	-	-	-	-	-	-
Management services .....	8741	35.2	34.7	35.1	34.7	-	-	-	-	-	-
Management consulting services .....	8742	36.6	36.2	36.5	36.9	-	-	-	-	-	-
Public relations services .....	8743	35.1	34.9	34.1	35.3	-	-	-	-	-	-
Services, nec .....	89	34.8	34.0	35.5	34.6	-	-	-	-	-	-

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				
		Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	\$11.50	\$11.38	\$11.69	\$11.74	—	\$333.50	\$332.30	\$336.67	\$339.29	—
Legal services .....	81	18.05	17.57	18.49	18.58	—	631.75	607.92	643.45	642.87	—
Social services .....	83	9.20	9.04	9.40	9.48	—	287.96	280.24	294.22	294.83	—
Individual and family services .....	832	9.70	9.54	9.85	9.96	—	304.58	297.65	311.26	312.74	—
Job training and related services .....	833	8.92	8.74	9.17	9.28	—	273.84	267.44	281.52	283.04	—
Child day care services .....	835	7.89	7.81	8.15	8.18	—	236.70	229.61	240.43	238.04	—
Residential care .....	836	9.30	9.13	9.52	9.56	—	300.39	292.16	306.54	308.79	—
Social services, nec .....	839	11.17	10.96	11.24	11.41	—	360.79	354.01	367.55	370.83	—
Membership organizations:											
Professional organizations .....	862	18.30	18.31	18.36	18.66	—	644.16	637.19	644.44	656.83	—
Engineering and management services .....	87	17.86	17.52	18.17	18.26	—	666.18	649.99	674.11	675.62	—
Engineering and architectural services .....	871	19.58	19.37	19.87	19.90	—	771.45	755.43	778.90	772.12	—
Engineering services .....	8711	20.46	20.25	20.80	20.82	—	810.22	795.83	823.68	816.14	—
Architectural services .....	8712	17.55	17.23	17.71	17.76	—	673.92	658.19	671.21	678.43	—
Surveying services .....	8713	13.78	13.53	13.92	14.01	—	527.77	506.02	527.57	502.96	—
Accounting, auditing, and bookkeeping .....	872	15.39	14.90	15.71	15.77	—	566.35	549.81	563.99	575.61	—
Research and testing services .....	873	18.35	18.21	18.37	18.67	—	667.94	659.20	666.83	675.85	—
Commercial physical research .....	8731	20.21	19.87	20.31	20.60	—	806.38	794.80	794.12	813.70	—
Commercial nonphysical research .....	8732	15.01	14.80	14.86	15.38	—	456.30	436.60	472.55	473.70	—
Noncommercial research organizations .....	8733	21.59	21.56	21.70	21.84	—	777.24	769.69	774.69	788.42	—
Management and public relations .....	874	17.22	16.73	17.67	17.81	—	623.36	598.93	637.89	644.72	—
Management services .....	8741	15.52	15.13	15.80	15.79	—	546.30	525.01	554.58	547.91	—
Management consulting services .....	8742	19.46	18.76	20.36	20.46	—	712.24	679.11	743.14	754.97	—
Public relations services .....	8743	15.87	15.56	16.13	16.25	—	557.04	543.04	550.03	573.63	—
Services, nec .....	89	17.66	17.49	17.64	18.31	—	614.57	594.66	626.22	633.53	—

<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)			
	Dec. 1997	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Dec. 1997	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>
Average hourly earnings, excluding lump-sum payments .....	\$21.11	\$20.84	\$21.56	\$21.42	\$21.17	\$21.26	\$21.50	\$21.74
Average hourly earnings, including lump-sum payments .....	21.41	20.86	21.65	21.52	21.35	21.45	21.69	21.93

<sup>P</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>
<b>Manufacturing</b> .....	<b>\$12.79</b>	<b>\$12.70</b>	<b>\$12.94</b>	<b>\$12.98</b>	<b>\$12.99</b>
<b>Durable goods</b> .....	13.25	13.19	13.37	13.41	13.40
Lumber and wood products .....	10.54	10.39	10.74	10.75	(2)
Furniture and fixtures .....	10.43	10.29	10.59	10.63	(2)
Stone, clay, and glass products .....	12.69	12.61	12.79	12.81	(2)
Primary metal industries .....	14.45	14.40	14.32	14.37	(2)
Fabricated metal products .....	12.37	12.27	12.60	12.63	(2)
Industrial machinery and equipment .....	13.65	13.48	13.86	13.89	(2)
Electronic and other electrical equipment .....	12.54	12.40	12.64	12.72	(2)
Transportation equipment .....	16.52	16.61	16.44	16.51	(2)
Instruments and related products .....	13.24	13.06	13.40	13.45	(2)
Miscellaneous manufacturing .....	10.48	10.42	10.70	10.78	(2)
<b>Nondurable goods</b> .....	12.11	11.95	12.29	12.35	\$12.37
Food and kindred products .....	11.11	11.03	11.28	11.23	(2)
Tobacco products .....	18.06	17.87	16.41	16.71	(2)
Textile mill products .....	9.85	9.71	9.99	10.09	(2)
Apparel and other textile products .....	8.29	8.18	8.44	8.48	(2)
Paper and allied products .....	14.57	14.29	14.81	14.79	(2)
Printing and publishing .....	12.90	12.77	13.09	13.16	(2)
Chemicals and allied products .....	16.17	15.95	16.34	16.38	(2)
Petroleum and coal products .....	19.44	19.33	19.86	19.92	(2)
Rubber and misc. plastics products .....	11.28	11.14	11.44	11.60	(2)
Leather and leather products .....	9.08	9.04	9.18	9.43	(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.

<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  
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				
	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>	Avg. 1998	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Feb. 1999 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$12.77	\$12.60	\$12.99	\$13.09	\$13.08	\$441.84	\$430.92	\$450.75	\$445.06	\$448.64
Constant (1982) dollars .....	7.75	7.71	7.83	7.88	(2)	268.11	263.56	271.86	267.79	(2)
<b>Mining:</b>										
Current dollars .....	16.95	16.65	17.35	17.35	\$17.41	744.11	749.25	758.20	732.17	\$745.15
Constant (1982) dollars .....	10.29	10.18	10.46	10.44	(2)	451.52	458.26	457.30	440.54	(2)
<b>Construction:</b>										
Current dollars .....	16.56	16.25	16.84	16.71	\$16.65	642.53	607.75	656.76	631.64	\$631.04
Constant (1982) dollars .....	10.05	9.94	10.16	10.05	(2)	389.88	371.71	396.12	380.05	(2)
<b>Manufacturing:</b>										
Current dollars .....	13.49	13.40	13.69	13.67	\$13.66	562.53	561.46	583.19	564.57	\$564.16
Constant (1982) dollars .....	8.19	8.20	8.26	8.23	(2)	341.34	343.40	351.74	339.69	(2)
<b>Transportation and public utilities:</b>										
Current dollars .....	15.34	15.27	15.54	15.57	\$15.57	605.93	600.11	607.61	602.56	\$607.23
Constant (1982) dollars .....	9.31	9.34	9.37	9.37	(2)	367.68	367.04	366.47	362.55	(2)
<b>Wholesale trade:</b>										
Current dollars .....	14.01	13.77	14.27	14.35	\$14.33	537.98	524.64	547.97	545.30	\$548.84
Constant (1982) dollars .....	8.50	8.42	8.61	8.63	(2)	326.44	320.88	330.50	328.10	(2)
<b>Retail trade</b>										
Current dollars .....	8.75	8.63	8.90	9.02	\$8.99	254.63	242.50	260.77	253.46	\$258.01
Constant (1982) dollars .....	5.31	5.28	5.37	5.43	(2)	154.51	148.32	157.28	152.50	(2)
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	14.06	13.70	14.40	14.45	\$14.52	511.78	494.57	521.28	520.20	\$528.53
Constant (1982) dollars .....	8.53	8.38	8.69	8.69	(2)	310.55	302.49	314.40	313.00	(2)
<b>Services:</b>										
Current dollars .....	12.84	12.66	13.18	13.30	\$13.32	419.87	410.18	429.67	429.59	\$434.23
Constant (1982) dollars .....	7.79	7.74	7.95	8.00	(2)	254.78	250.87	259.15	258.48	(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		
	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>Alabama</b> .....	42.3	43.0	41.7	\$12.13	\$12.34	\$12.29	\$513.10	\$530.62	\$512.49
Birmingham .....	43.8	44.3	43.2	12.90	13.04	13.13	565.02	577.67	567.22
Mobile .....	44.5	45.5	43.0	14.24	13.68	13.68	633.68	622.44	588.24
<b>Alaska</b> .....	29.4	36.9	25.0	12.05	14.12	12.91	354.27	521.03	322.75
<b>Arizona</b> .....	41.8	40.1	39.7	11.77	12.48	12.63	491.99	500.45	501.41
<b>Arkansas</b> .....	41.7	43.5	42.5	11.00	11.41	11.44	458.70	496.34	486.20
Fayetteville-Springdale-Rogers .....	40.6	42.9	42.7	10.51	11.09	10.86	426.71	475.76	463.72
Fort Smith .....	42.3	45.5	43.3	11.12	11.36	11.43	470.38	516.88	494.92
Little Rock-North Little Rock .....	42.5	42.8	43.0	11.95	11.92	12.16	507.88	510.18	522.88
Pine Bluff .....	39.9	40.8	40.9	12.96	13.21	12.94	517.10	538.97	529.25
<b>California</b> .....	41.8	42.5	41.8	13.51	13.91	13.87	564.72	591.18	579.77
Bakersfield .....	41.8	42.0	41.5	13.83	13.84	13.75	578.09	581.28	570.63
Fresno .....	40.0	41.6	40.5	12.03	12.19	12.26	481.20	507.10	496.53
Los Angeles-Long Beach .....	42.6	42.9	42.7	12.69	13.01	12.93	540.59	558.13	552.11
Modesto .....	40.8	42.1	41.3	13.78	14.00	13.97	562.22	589.40	576.96
Oakland .....	42.2	42.5	42.4	15.67	15.70	15.68	661.27	667.25	664.83
Orange County .....	43.5	44.4	42.9	12.86	13.21	13.22	559.41	586.52	567.14
Riverside-San Bernardino .....	42.3	42.6	42.1	11.85	12.24	12.21	501.26	521.42	514.04
Sacramento .....	40.7	41.3	41.2	14.44	14.84	14.85	587.71	612.89	611.82
Salinas .....	37.8	39.1	38.6	14.10	14.29	14.16	532.98	558.74	546.58
San Diego .....	39.8	40.8	40.4	13.45	13.68	13.72	535.31	558.14	554.29
San Francisco .....	40.9	40.2	41.2	14.70	14.80	14.86	601.23	594.96	612.23
San Jose .....	42.4	43.0	42.9	16.54	17.04	17.05	701.30	732.72	731.45
Santa Barbara-Santa Maria-Lompoc .....	41.4	42.3	41.3	13.84	14.32	14.35	572.98	605.74	592.66
Santa Rosa .....	39.3	40.4	40.4	14.79	15.45	15.41	581.25	624.18	622.56
Stockton-Lodi .....	42.1	42.8	41.9	13.32	13.46	13.42	560.77	576.09	562.30
Vallejo-Fairfield-Napa .....	41.3	41.3	41.4	15.44	15.72	15.77	637.67	649.24	652.88
Ventura .....	43.2	43.0	42.9	12.44	12.45	12.47	537.41	535.35	534.96
<b>Colorado</b> .....	41.2	41.5	41.9	13.59	14.06	13.93	559.91	583.49	583.67
Denver .....	41.6	42.2	42.3	13.13	13.18	13.12	546.21	556.20	554.98
<b>Connecticut</b> .....	42.7	43.2	41.8	14.68	15.01	14.99	626.84	648.43	626.58
Bridgeport .....	43.2	42.5	41.3	15.17	15.43	15.30	655.34	655.78	631.89
Danbury .....	42.1	41.8	40.4	14.51	15.10	15.03	610.87	631.18	607.21
Hartford .....	42.9	44.3	42.4	15.77	15.88	15.91	676.53	703.48	674.58
New Haven-Meriden .....	41.7	43.0	41.1	14.59	14.88	14.59	608.40	639.84	599.65
New London-Norwich .....	42.3	43.0	41.9	15.17	15.64	15.70	641.69	672.52	657.83
Stamford-Norwalk .....	39.3	39.7	39.1	14.00	13.81	13.98	550.20	548.26	546.62
Waterbury .....	44.4	44.7	44.0	13.86	14.28	14.41	615.38	638.32	634.04
<b>Delaware</b> .....	40.9	44.4	43.3	14.80	15.55	15.43	605.32	690.42	668.12
Dover .....	40.7	40.5	39.4	13.85	13.72	13.72	552.71	560.93	540.57
Wilmington-Newark .....	41.7	45.1	42.5	18.09	18.61	18.65	754.35	839.31	792.63
<b>District of Columbia:</b>									
Washington PMSA .....	38.6	40.2	37.0	14.04	14.93	14.81	541.94	600.19	547.97
<b>Florida</b> .....	42.0	43.0	42.3	11.25	11.68	11.73	472.50	502.24	496.18
<b>Georgia</b> .....	42.0	42.8	41.5	11.90	12.27	12.19	499.80	525.16	505.89
Atlanta .....	41.8	42.6	40.7	12.88	13.00	12.86	538.38	553.80	523.40
Savannah .....	49.5	48.7	48.5	14.82	15.77	15.81	733.59	768.00	766.79
<b>Hawaii</b> .....	36.6	39.4	38.8	13.15	13.16	12.70	481.29	518.50	492.76
Honolulu .....	38.1	40.0	39.0	13.14	13.12	12.73	500.63	524.80	496.47
<b>Idaho</b> .....	37.1	39.3	38.9	12.60	13.01	13.41	467.46	511.29	521.65
<b>Illinois</b> .....	42.2	41.9	41.7	13.61	13.86	13.88	574.34	580.73	578.80
Bloomington-Normal .....	39.5	40.0	38.5	17.01	17.82	17.80	671.90	712.80	685.30
Champaign-Urbana .....	41.2	41.5	40.3	11.20	11.27	11.31	461.44	467.71	455.79
Chicago .....	42.7	42.4	41.9	13.46	13.58	13.62	574.74	575.79	570.68
Davenport-Moline-Rock Island .....	42.8	42.5	41.6	15.64	15.57	15.33	669.39	661.73	637.73
Decatur .....	42.6	42.2	41.9	16.78	16.84	16.87	714.83	710.65	706.85
Kankakee .....	41.6	41.5	40.1	15.15	15.56	15.63	630.24	645.74	626.76
Peoria-Pekin .....	42.4	42.4	42.1	16.58	16.53	16.55	702.99	700.87	696.76
Rockford .....	42.8	42.7	41.8	15.03	15.36	15.69	643.28	655.87	655.84
Springfield .....	41.3	41.6	41.1	12.25	12.40	12.50	505.93	515.84	513.75

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		
	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>Indiana</b> .....	43.9	44.3	43.1	\$15.03	\$14.95	\$14.97	\$659.82	\$662.29	\$645.21
Bloomington .....	41.0	40.7	40.7	12.02	12.04	11.97	492.82	490.03	487.18
Elkhart-Goshen .....	39.7	40.4	40.0	12.18	12.52	12.59	483.55	505.81	503.60
Evansville-Henderson .....	43.9	44.3	43.8	15.21	14.35	14.39	667.72	635.71	630.28
Fort Wayne .....	41.7	41.8	40.1	14.83	14.97	15.31	618.41	625.75	613.93
Gary .....	45.1	44.4	44.2	18.64	19.18	19.23	840.66	851.59	849.97
Indianapolis .....	44.3	44.3	44.3	15.72	15.55	15.56	696.40	688.87	689.31
Kokomo .....	52.1	50.3	47.8	20.78	21.90	22.13	1,082.64	1,101.57	1,057.81
Lafayette .....	43.6	45.2	44.2	15.87	15.85	15.92	691.93	716.42	703.66
Muncie .....	46.1	45.5	45.6	15.03	14.86	14.96	692.88	676.13	682.18
South Bend .....	41.6	41.5	40.7	12.47	12.47	12.44	518.75	517.51	506.31
Terre Haute .....	45.6	45.6	43.3	14.78	14.70	14.50	673.97	670.32	627.85
<b>Iowa</b> .....	43.1	42.8	41.4	13.67	14.16	13.99	589.18	606.05	579.19
Cedar Rapids .....	43.2	41.8	42.0	17.19	19.06	17.69	742.61	796.71	742.98
Des Moines .....	44.0	41.4	40.9	13.92	14.14	14.02	612.48	585.40	573.42
Dubuque .....	41.4	40.4	39.1	14.90	15.79	15.23	616.86	637.92	595.49
Sioux City .....	42.0	41.4	36.4	11.60	11.89	12.73	487.20	492.25	463.37
<b>Kansas</b> .....	42.8	41.7	41.0	13.74	14.31	14.22	588.07	596.73	583.02
Topeka .....	42.3	41.5	40.4	15.62	16.07	16.48	660.73	666.91	665.79
Wichita .....	44.1	43.1	42.3	16.25	16.65	16.56	716.63	717.62	700.49
<b>Kentucky</b> .....	41.6	41.8	40.9	13.45	14.15	14.08	559.52	591.47	575.87
Lexington .....	43.7	42.6	42.7	14.03	14.06	14.18	613.11	598.96	605.49
Louisville .....	41.3	43.1	41.0	14.97	15.89	15.54	618.26	684.86	637.14
<b>Louisiana</b> .....	43.9	44.7	43.5	14.58	14.62	14.65	640.06	653.51	637.28
Baton Rouge .....	43.0	43.3	42.8	17.20	16.51	16.61	739.60	714.88	710.91
New Orleans .....	43.9	44.1	43.8	14.84	14.83	15.01	651.48	654.00	657.44
Shreveport-Bossier City .....	42.0	43.8	42.3	13.85	14.54	14.26	581.70	636.85	603.20
<b>Maine</b> .....	39.9	42.0	39.3	13.58	13.74	13.85	541.84	577.08	544.31
Lewiston-Auburn .....	39.6	43.2	40.8	11.49	11.94	11.79	455.00	515.81	481.03
Portland .....	38.4	43.2	40.7	11.36	11.39	11.46	436.22	492.05	466.42
<b>Maryland</b> .....	40.8	42.5	40.8	13.96	14.28	14.37	569.57	606.90	586.30
Baltimore PMSA .....	40.4	41.8	39.9	14.65	15.20	15.23	591.86	635.36	607.68
<b>Massachusetts</b> .....	41.9	42.5	41.3	13.65	13.93	14.00	571.94	592.03	578.20
Boston .....	41.0	41.9	40.8	14.74	15.24	15.28	604.34	638.56	623.42
Springfield .....	41.4	42.6	40.5	13.33	13.62	13.60	551.86	580.21	550.80
Worcester .....	42.5	41.9	40.1	13.79	14.28	14.28	586.08	598.33	572.63
<b>Michigan</b> .....	43.9	45.3	43.7	17.40	18.28	18.13	763.86	828.08	792.28
Ann Arbor .....	45.2	45.2	44.3	18.88	19.39	19.81	853.38	876.43	877.58
Detroit .....	44.9	45.2	43.3	19.04	20.28	20.24	854.90	916.66	876.39
Flint .....	43.3	48.0	42.9	24.20	26.31	25.51	1,047.86	1,262.88	1,094.38
Grand Rapids-Muskegon-Holland .....	42.0	43.3	42.1	14.41	15.49	15.04	605.22	670.72	633.18
Jackson .....	42.7	42.0	41.8	13.08	13.20	12.95	558.52	554.40	541.31
Kalamazoo-Battle Creek .....	45.1	42.9	44.2	15.51	15.97	16.38	699.50	685.11	724.00
Lansing East Lansing .....	39.1	44.2	42.6	19.25	20.10	19.84	752.68	888.42	845.18
Saginaw-Bay City-Midland .....	44.6	47.7	45.2	20.86	22.20	22.09	930.36	1,058.94	998.47
<b>Minnesota</b> .....	41.6	41.6	40.5	13.92	14.10	14.06	579.07	586.56	569.43
Duluth-Superior .....	41.4	40.0	39.1	12.64	12.76	12.89	523.30	510.40	504.00
Minneapolis-St. Paul .....	41.9	42.2	41.8	14.86	15.15	15.23	622.63	639.33	636.61
St. Cloud .....	43.3	42.6	41.6	12.79	13.40	13.34	553.81	570.84	554.94
<b>Mississippi</b> .....	41.2	42.5	41.3	10.66	10.90	10.89	439.19	463.25	449.76
Jackson .....	40.5	40.4	40.4	11.77	12.58	12.71	476.69	508.23	513.48
<b>Missouri</b> .....	41.6	43.2	41.3	13.15	13.60	13.58	547.04	587.52	560.85
Kansas City .....	44.0	45.0	43.5	14.46	13.96	13.88	636.24	628.20	603.78
St. Louis .....	42.2	44.7	41.7	15.63	16.38	16.51	659.59	732.19	688.47
Springfield .....	41.2	41.3	40.4	11.16	11.64	11.60	459.79	480.73	468.64
<b>Montana</b> .....	39.7	39.8	38.9	13.74	13.96	14.18	545.48	555.61	551.60
<b>Nebraska</b> .....	41.9	43.8	43.0	12.12	12.57	12.65	507.83	550.57	543.95
Lincoln .....	45.2	45.3	43.5	14.17	14.18	14.38	640.48	642.35	625.53
Omaha .....	42.1	42.8	42.6	13.20	13.31	13.26	555.72	569.67	564.88
<b>Nevada</b> .....	40.0	41.5	40.5	13.77	14.26	13.93	550.80	591.79	564.17
Las Vegas .....	40.4	37.0	37.7	14.42	16.34	16.03	582.57	604.58	604.33

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		
	January 1996	December 1998	January 1999P	January 1998	December 1998	January 1999P	January 1998	December 1998	January 1999P
<b>New Hampshire</b> .....	41.6	42.1	39.6	\$12.69	\$12.87	\$12.90	\$527.90	\$541.83	\$510.84
Manchester .....	39.0	43.1	38.5	13.98	13.38	13.91	545.22	576.68	535.54
Nashua .....	41.1	42.7	39.7	14.66	14.63	14.56	602.53	624.70	578.03
Portsmouth-Rochester .....	41.6	40.7	38.7	11.93	12.43	12.61	496.29	505.90	488.01
<b>New Jersey</b> .....	41.7	42.8	41.1	14.53	14.84	14.87	605.90	635.15	611.16
<b>New Mexico</b> .....	38.8	39.8	38.8	12.71	12.49	12.24	493.15	497.10	474.91
Albuquerque .....	40.7	41.3	37.9	13.85	14.37	13.42	563.70	593.48	508.62
<b>New York</b> .....	41.4	41.7	40.6	13.40	13.87	14.09	554.76	578.38	572.05
Albany-Schenectady-Troy .....	41.6	43.2	41.6	14.66	14.83	15.05	609.86	640.66	626.08
Binghamton .....	42.0	41.7	39.8	10.33	10.79	10.92	433.86	449.94	434.62
Buffalo-Niagara Falls .....	43.2	43.8	42.4	16.90	17.64	17.83	730.08	772.63	755.99
Dutchess County .....	38.6	41.3	38.6	12.30	12.27	12.13	474.78	506.75	468.22
Elmira .....	42.1	41.8	39.7	12.58	12.81	12.59	529.62	535.46	499.82
Nassau-Suffolk .....	39.9	41.4	39.9	12.42	12.79	12.61	495.56	529.51	503.14
New York PMSA .....	39.3	39.2	38.9	12.37	12.64	12.66	486.14	495.49	492.47
New York City .....	39.2	38.8	38.6	12.13	12.39	12.40	475.50	480.73	478.64
Newburgh .....	40.4	40.5	38.8	11.76	11.20	11.55	475.10	453.60	448.14
Rochester .....	42.5	43.8	42.4	14.80	15.37	15.40	629.00	673.21	652.96
Rockland County .....	41.5	44.0	43.7	15.63	15.95	16.09	648.65	701.80	703.13
Syracuse .....	43.6	42.3	40.8	14.53	14.77	14.85	633.51	624.77	605.88
Utica-Rome .....	40.7	40.5	39.8	11.70	12.16	12.17	476.19	492.48	484.37
Westchester County .....	39.7	40.6	39.6	13.00	13.00	13.07	516.10	527.80	517.57
<b>North Carolina</b> .....	41.4	41.6	40.9	11.67	12.08	12.10	483.14	502.53	494.89
Asheville .....	43.0	41.7	40.8	11.24	11.55	11.71	483.32	481.64	477.77
Charlotte-Gastonia-Rock Hill .....	40.9	41.9	41.7	12.62	13.02	13.01	516.16	545.54	542.52
Greensboro-Winston-Salem--High Point .....	40.8	40.8	39.9	11.87	12.35	12.37	484.30	503.88	493.56
Raleigh-Durham-Chapel Hill .....	41.3	43.0	42.3	12.71	13.18	13.07	524.92	566.74	552.86
<b>North Dakota</b> .....	40.2	39.6	38.9	11.40	11.43	11.52	458.28	452.63	448.13
Fargo-Moorhead .....	38.3	41.3	39.0	11.01	10.75	10.74	421.68	443.98	418.86
<b>Ohio</b> .....	43.4	44.0	41.5	15.61	16.22	16.22	677.47	713.68	673.13
Akron .....	43.3	43.4	41.9	13.00	13.40	13.31	562.90	581.56	557.69
Canton-Massillon .....	43.2	40.9	39.1	13.79	13.91	13.95	595.73	568.92	545.45
Cincinnati .....	43.6	44.3	42.6	14.85	15.48	15.50	647.46	685.76	660.30
Cleveland-Lorain-Elyria .....	44.3	43.8	42.1	15.13	15.82	15.79	670.26	692.92	664.76
Columbus .....	42.6	42.7	40.7	14.51	15.19	14.99	618.13	648.61	610.09
Dayton-Springfield .....	43.3	45.0	42.3	16.79	17.40	17.65	727.01	783.00	746.60
Hamilton-Middletown .....	46.1	47.6	46.8	17.10	17.43	17.49	788.31	829.67	818.53
Lima .....	43.9	43.4	41.9	16.25	16.38	16.67	713.38	710.89	698.47
Mansfield .....	44.4	45.2	42.8	16.03	16.88	16.52	711.73	762.98	707.06
Steubenville-Weirton .....	42.4	40.7	41.6	16.85	17.52	17.70	714.44	713.06	736.32
Toledo .....	43.3	45.1	43.3	16.76	17.92	18.04	725.71	808.19	781.13
Youngstown-Warren .....	42.4	42.8	41.5	17.66	17.97	17.79	748.78	769.12	738.29
<b>Oklahoma</b> .....	42.3	42.0	42.0	12.61	12.93	12.93	533.40	543.06	543.06
Oklahoma City .....	43.7	39.7	39.4	14.12	13.43	13.48	617.04	533.17	531.11
Tulsa .....	43.3	43.5	43.4	12.98	13.42	13.50	562.03	583.77	585.90
<b>Oregon</b> .....	39.2	41.1	40.2	13.83	14.40	14.43	542.14	591.84	580.09
Eugene-Springfield .....	39.1	42.3	39.8	13.18	13.83	13.80	515.34	585.01	549.24
Medford-Ashland .....	38.7	39.4	39.0	12.49	12.80	12.98	483.36	504.32	506.22
Portland-Vancouver .....	38.9	40.8	40.4	13.98	15.04	15.01	543.82	613.63	606.40
Salem .....	37.4	41.6	39.4	11.91	12.34	12.52	445.43	513.34	493.29
<b>Pennsylvania</b> .....	42.2	42.3	40.5	14.01	14.20	14.31	591.22	600.66	579.56
Allentown-Bethlem-Easton .....	41.7	42.8	38.9	14.40	14.87	15.04	600.48	636.44	585.06
Altoona .....	39.9	39.3	38.9	11.95	12.51	12.67	476.81	491.64	492.86
Erie .....	45.2	45.5	45.1	14.10	14.36	14.51	637.32	653.38	654.40
Harrisburg-Lebanon-Carlisle .....	40.4	40.8	38.1	13.55	13.99	14.12	547.42	570.79	537.97
Johnstown .....	40.2	38.6	39.1	10.19	10.87	10.86	409.64	419.58	424.63
Lancaster .....	40.7	41.3	39.2	12.92	12.99	13.04	525.84	536.49	511.17
Philadelphia PMSA .....	41.5	42.3	40.0	15.20	15.40	15.41	630.80	651.42	616.40
Pittsburgh .....	43.1	42.4	41.5	14.80	15.04	15.10	637.88	637.70	626.65
Reading .....	43.0	42.2	40.0	15.04	15.11	15.27	646.72	637.64	610.80
Scranton-Wilkes-Barre-Hazleton .....	40.8	41.3	39.3	12.66	12.90	12.98	516.53	532.77	510.11
Sharon .....	42.9	42.0	41.2	13.74	14.28	14.30	589.45	599.76	589.16
State College .....	41.9	40.5	40.1	12.22	12.44	12.65	512.02	503.82	507.27
Williamsport .....	41.8	41.7	38.9	11.17	11.62	11.64	466.91	484.55	452.80
York .....	42.7	44.0	42.0	14.21	14.63	14.41	606.77	643.72	605.22

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		
	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>	January 1998	December 1998	January 1999 <sup>P</sup>
Rhode Island .....	41.2	40.7	39.5	\$11.48	\$11.72	\$11.75	\$472.98	\$477.00	\$464.13
Providence-Fall River-Warwick .....	41.7	41.8	40.6	11.63	12.10	12.18	484.97	505.78	494.51
South Carolina .....	42.6	42.8	42.8	10.44	10.60	10.61	444.74	453.68	454.11
South Dakota .....	42.3	42.5	42.6	10.01	10.45	10.49	423.42	444.13	446.87
Rapid City .....	41.1	40.3	40.6	10.05	10.52	10.54	413.06	423.96	427.92
Sioux Falls .....	42.9	43.8	44.0	10.48	10.87	10.89	449.59	476.11	479.16
Tennessee .....	41.1	41.3	40.8	11.91	12.23	12.15	489.50	505.10	495.72
Chattanooga .....	41.9	43.3	41.3	11.05	11.44	11.07	463.00	495.35	457.19
Johnson City-Kingsport-Bristol .....	38.6	39.0	39.1	12.59	12.98	12.83	485.97	506.22	501.65
Knoxville .....	41.0	43.2	41.4	11.77	11.98	11.73	482.57	517.54	485.62
Memphis .....	39.6	41.0	39.8	12.33	13.28	13.17	488.27	544.48	524.17
Nashville .....	42.2	41.1	40.2	12.94	12.95	12.92	546.07	532.25	519.38
Texas .....	43.9	44.2	43.4	12.11	12.22	12.20	531.63	540.12	529.48
Dallas .....	42.7	43.0	43.0	12.36	12.47	12.46	527.77	536.21	535.78
Ft. Worth-Arlington .....	43.4	43.5	42.9	12.97	13.31	13.20	562.90	578.99	566.28
Houston .....	46.0	45.0	44.3	14.23	14.54	14.54	654.58	654.30	644.12
San Antonio .....	42.2	42.6	42.4	9.74	9.85	9.89	411.03	419.61	419.34
Utah .....	39.4	40.9	40.3	12.98	13.56	13.47	511.41	554.60	542.84
Salt Lake City-Ogden .....	39.4	41.2	40.5	12.74	13.11	12.95	501.96	540.13	524.48
Vermont .....	40.2	40.4	38.5	12.81	13.39	13.28	514.96	540.96	511.28
Burlington .....	44.0	45.6	42.6	13.49	14.23	13.89	593.56	648.89	591.71
Virginia .....	42.3	43.3	42.3	12.83	13.18	13.24	542.71	570.69	560.05
Bristol .....	41.0	44.6	44.8	10.40	10.69	10.85	426.40	476.77	486.08
Charlottesville .....	42.4	44.6	43.6	10.21	10.64	10.21	432.90	474.54	445.16
Danville .....	42.6	43.0	43.2	12.78	13.00	13.26	544.43	559.00	572.83
Lynchburg .....	45.0	44.6	38.8	12.55	13.22	13.41	564.75	589.61	520.31
Norfolk-Virginia Beach-Newport News .....	44.4	41.0	41.0	15.41	14.82	14.72	684.20	607.62	603.52
Northern Virginia .....	41.2	42.3	41.4	12.98	13.45	13.60	534.78	568.94	563.04
Richmond-Petersburg .....	41.6	43.6	41.9	15.53	17.00	16.51	646.05	741.20	691.77
Roanoke .....	42.7	41.7	40.0	15.08	14.54	13.51	643.92	606.32	540.40
Washington .....	39.7	41.1	40.4	15.65	16.18	16.20	621.31	665.00	654.48
West Virginia .....	41.5	42.0	41.6	13.42	13.92	13.95	556.93	584.64	580.32
Charleston .....	45.9	48.4	47.4	15.41	15.64	16.29	707.32	756.98	772.15
Huntington-Ashland .....	42.9	42.2	40.6	14.57	15.87	15.59	625.05	669.71	632.95
Parkersburg-Marietta .....	42.2	43.3	40.9	16.82	17.64	17.31	709.80	763.81	707.98
Wheeling .....	39.6	43.4	40.4	15.81	17.37	18.16	626.08	753.86	733.66
Wisconsin .....	41.9	42.8	41.6	13.89	14.41	14.41	581.99	616.75	599.46
Appleton-Oshkosh-Neenah .....	45.4	45.1	43.8	14.80	15.72	15.71	671.92	708.97	688.10
Eau Claire .....	41.9	42.8	42.4	12.92	12.65	12.70	541.35	541.42	538.48
Green Bay .....	41.9	42.7	42.1	15.10	15.69	15.34	632.69	669.96	645.81
Janesville-Beloit .....	41.6	44.4	42.3	17.31	18.91	18.89	720.10	839.60	799.05
Kenosha .....	41.3	40.9	39.1	15.29	15.57	15.91	631.48	636.81	622.06
La Crosse .....	41.8	42.6	40.8	12.17	12.24	12.25	508.71	521.42	499.80
Madison .....	40.0	40.9	40.4	12.99	13.25	13.31	519.60	541.93	537.72
Milwaukee-Waukesha .....	42.2	43.0	41.6	14.96	15.35	15.50	631.31	660.05	644.80
Racine .....	42.0	42.7	40.7	14.26	14.60	14.07	598.92	623.42	572.65
Sheboygan .....	41.0	43.5	42.2	13.63	14.23	14.29	558.83	619.01	603.04
Wausau .....	43.1	42.4	42.8	13.39	13.67	13.79	577.11	579.61	590.21
Wyoming .....	40.4	39.7	40.2	15.43	15.23	15.24	623.37	604.63	612.65
Puerto Rico .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Virgin Islands .....	42.3	39.9	40.2	19.06	18.42	18.94	806.24	734.96	761.39

<sup>1</sup> Not available  
P = preliminary

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1998 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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>NORTHEAST</b>													
Civilian labor force .....	26,111.7	26,097.3	26,071.6	26,045.2	26,055.9	26,027.2	26,024.4	26,035.0	26,081.6	26,092.3	26,115.2	26,147.6	26,174.2
Employed .....	24,811.0	24,818.3	24,809.8	24,823.1	24,831.6	24,825.3	24,838.3	24,851.8	24,883.0	24,910.0	24,944.2	24,988.5	25,042.9
Unemployed .....	1,300.7	1,279.0	1,261.7	1,222.1	1,224.2	1,201.9	1,186.1	1,183.2	1,198.6	1,182.3	1,171.0	1,159.2	1,131.3
Unemployment rate .....	5.0	4.9	4.8	4.7	4.7	4.6	4.6	4.5	4.6	4.5	4.5	4.4	4.3
<b>New England</b>													
Civilian labor force .....	7,108.6	7,103.5	7,103.7	7,092.4	7,101.6	7,097.0	7,104.3	7,107.4	7,125.5	7,135.9	7,140.1	7,149.3	7,156.7
Employed .....	6,831.7	6,837.9	6,839.9	6,845.6	6,845.9	6,849.5	6,866.4	6,865.9	6,876.3	6,891.8	6,905.1	6,919.5	6,929.5
Unemployed .....	276.9	265.6	263.8	246.8	255.8	247.5	237.9	241.5	249.3	244.0	235.0	229.7	227.2
Unemployment rate .....	3.9	3.7	3.7	3.5	3.6	3.5	3.3	3.4	3.5	3.4	3.3	3.2	3.2
<b>Middle Atlantic</b>													
Civilian labor force .....	19,003.1	18,993.8	18,967.8	18,952.8	18,954.2	18,930.2	18,920.1	18,927.6	18,956.0	18,956.4	18,975.1	18,998.4	19,017.6
Employed .....	17,979.3	17,980.4	17,969.9	17,977.5	17,985.8	17,975.8	17,971.9	17,985.8	18,006.7	18,018.2	18,039.2	18,068.9	18,113.4
Unemployed .....	1,023.8	1,013.4	997.9	975.3	968.5	954.3	948.2	941.8	949.3	938.3	935.9	929.4	904.1
Unemployment rate .....	5.4	5.3	5.3	5.1	5.1	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8
<b>SOUTH</b>													
Civilian labor force .....	47,378.4	47,399.3	47,444.1	47,558.9	47,635.6	47,744.2	47,867.6	47,944.9	48,056.0	48,192.6	48,312.9	48,458.9	48,625.9
Employed .....	45,207.7	45,263.0	45,300.2	45,427.9	45,519.3	45,615.4	45,751.7	45,835.6	45,956.7	46,114.1	46,247.0	46,409.3	46,611.9
Unemployed .....	2,170.7	2,136.3	2,143.9	2,130.9	2,116.3	2,128.8	2,115.9	2,109.2	2,099.3	2,078.6	2,065.9	2,049.6	2,013.9
Unemployment rate .....	4.6	4.5	4.5	4.5	4.4	4.5	4.4	4.4	4.4	4.3	4.3	4.2	4.1
<b>South Atlantic</b>													
Civilian labor force .....	24,498.4	24,498.5	24,499.8	24,548.5	24,581.0	24,623.6	24,698.6	24,745.3	24,813.9	24,902.2	24,979.1	25,072.6	25,167.3
Employed .....	23,449.7	23,464.1	23,471.2	23,529.3	23,568.3	23,615.9	23,699.7	23,750.9	23,830.3	23,919.4	24,006.0	24,111.5	24,224.7
Unemployed .....	1,048.7	1,034.4	1,028.6	1,019.2	1,012.8	1,007.6	998.9	994.4	983.6	982.7	973.1	961.1	942.6
Unemployment rate .....	4.3	4.2	4.2	4.2	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.8	3.7
<b>East South Central</b>													
Civilian labor force .....	8,049.4	8,049.5	8,061.2	8,074.9	8,082.6	8,095.0	8,108.2	8,114.5	8,128.1	8,147.8	8,160.1	8,181.9	8,206.3
Employed .....	7,666.8	7,674.8	7,680.3	7,703.9	7,715.8	7,734.9	7,756.9	7,757.9	7,769.7	7,793.3	7,809.1	7,831.2	7,853.9
Unemployed .....	382.6	374.7	381.0	371.0	366.8	360.2	351.3	356.7	358.3	354.5	351.0	350.7	352.5
Unemployment rate .....	4.8	4.7	4.7	4.6	4.5	4.4	4.3	4.4	4.4	4.4	4.3	4.3	4.3
<b>West South Central</b>													
Civilian labor force .....	14,830.6	14,851.3	14,883.0	14,935.5	14,971.9	15,025.7	15,060.8	15,085.0	15,114.0	15,142.7	15,173.7	15,204.5	15,252.2
Employed .....	14,091.2	14,124.1	14,148.7	14,194.7	14,235.3	14,264.6	14,295.1	14,326.8	14,356.6	14,401.4	14,431.9	14,466.6	14,533.3
Unemployed .....	739.4	727.2	734.3	740.7	736.7	761.0	765.8	758.2	757.4	741.3	741.8	737.8	718.9
Unemployment rate .....	5.0	4.9	4.9	5.0	4.9	5.1	5.1	5.0	5.0	4.9	4.9	4.9	4.7

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>MIDWEST</b>													
Civilian labor force .....	32,983.4	32,975.8	32,961.0	32,964.4	33,012.1	33,071.8	33,109.8	33,149.1	33,250.3	33,358.5	33,442.1	33,524.7	33,574.6
Employed .....	31,714.8	31,720.4	31,697.5	31,764.5	31,792.2	31,822.9	31,802.2	31,909.8	32,005.1	32,131.7	32,229.2	32,342.5	32,423.5
Unemployed .....	1,268.5	1,255.4	1,263.5	1,199.9	1,219.9	1,248.9	1,307.6	1,239.3	1,245.3	1,226.7	1,212.8	1,182.2	1,151.2
Unemployment rate .....	3.8	3.8	3.8	3.6	3.7	3.8	3.9	3.7	3.7	3.7	3.6	3.5	3.4
<b>East North Central</b>													
Civilian labor force .....	22,881.5	22,867.5	22,854.8	22,842.6	22,866.7	22,914.9	22,937.8	22,965.2	23,035.6	23,107.8	23,154.2	23,210.4	23,262.7
Employed .....	21,959.8	21,956.8	21,946.8	21,981.9	21,988.2	22,004.6	21,966.0	22,053.3	22,117.7	22,196.9	22,253.3	22,323.7	22,385.5
Unemployed .....	921.7	910.6	907.9	860.7	878.5	910.2	971.8	911.8	917.9	910.8	900.9	886.7	877.2
Unemployment rate .....	4.0	4.0	4.0	3.8	3.8	4.0	4.2	4.0	4.0	3.9	3.9	3.8	3.8
<b>West North Central</b>													
Civilian labor force .....	10,101.9	10,108.4	10,106.2	10,121.8	10,145.4	10,156.9	10,172.0	10,184.0	10,214.8	10,250.7	10,287.9	10,314.3	10,311.9
Employed .....	9,755.0	9,763.6	9,750.6	9,782.6	9,804.0	9,818.3	9,836.3	9,856.5	9,887.4	9,934.8	9,976.0	10,018.8	10,037.9
Unemployed .....	346.8	344.8	355.6	339.2	341.4	338.7	335.8	327.5	327.4	315.9	311.9	295.5	274.0
Unemployment rate .....	3.4	3.4	3.5	3.4	3.4	3.3	3.3	3.2	3.2	3.1	3.0	2.9	2.7
<b>WEST</b>													
Civilian labor force .....	30,428.1	30,478.4	30,539.5	30,583.8	30,663.0	30,717.4	30,819.4	30,831.4	30,921.5	30,971.5	31,038.5	31,055.4	31,116.7
Employed .....	28,791.3	28,836.1	28,891.7	28,933.7	29,004.5	29,054.9	29,163.7	29,173.7	29,250.9	29,326.2	29,402.6	29,423.7	29,532.3
Unemployed .....	1,636.8	1,642.3	1,647.8	1,650.1	1,658.5	1,662.4	1,655.7	1,657.7	1,670.5	1,645.3	1,635.9	1,631.7	1,584.4
Unemployment rate .....	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.1
<b>Mountain</b>													
Civilian labor force .....	8,551.8	8,579.9	8,611.6	8,639.6	8,669.1	8,701.0	8,728.8	8,746.3	8,780.2	8,810.5	8,837.7	8,862.0	8,902.6
Employed .....	8,177.6	8,199.8	8,222.0	8,247.9	8,278.3	8,304.1	8,338.4	8,359.7	8,396.7	8,433.4	8,468.0	8,502.0	8,553.4
Unemployed .....	374.2	380.1	389.6	391.6	390.9	396.9	390.4	386.6	383.4	377.0	369.7	360.0	349.1
Unemployment rate .....	4.4	4.4	4.5	4.5	4.5	4.6	4.5	4.4	4.4	4.3	4.2	4.1	3.9
<b>Pacific</b>													
Civilian labor force .....	21,876.3	21,898.5	21,927.9	21,944.3	21,993.8	22,016.3	22,090.5	22,085.1	22,141.3	22,161.0	22,200.8	22,193.4	22,214.2
Employed .....	20,613.8	20,636.2	20,669.7	20,685.8	20,726.2	20,750.8	20,825.2	20,814.0	20,854.2	20,892.7	20,934.6	20,921.7	20,978.8
Unemployed .....	1,262.6	1,262.2	1,258.2	1,258.5	1,267.6	1,265.4	1,265.3	1,271.1	1,287.1	1,268.3	1,266.2	1,271.7	1,235.3
Unemployment rate .....	5.8	5.8	5.7	5.7	5.8	5.7	5.7	5.8	5.8	5.7	5.7	5.7	5.6

<sup>P</sup> = 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. Data have been revised to incorporate updated population controls, reestimation of models, benchmarking to CPS annual averages, and new seasonal adjustment factors.

STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED

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

(Numbers in thousands)

State	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>Alabama</b>													
Civilian labor force .....	2,155.7	2,150.1	2,150.6	2,153.3	2,151.6	2,152.1	2,152.0	2,150.3	2,150.4	2,152.1	2,154.2	2,158.7	2,162.2
Employed .....	2,059.0	2,057.8	2,055.5	2,060.9	2,059.1	2,061.4	2,064.8	2,061.8	2,061.4	2,063.3	2,065.9	2,071.5	2,077.2
Unemployed .....	96.7	92.3	95.1	92.4	92.5	90.8	87.3	88.5	89.0	88.7	88.3	87.3	85.1
Unemployment rate .....	4.5	4.3	4.4	4.3	4.3	4.2	4.1	4.1	4.1	4.1	4.1	4.0	3.9
<b>Alaska</b>													
Civilian labor force .....	315.5	316.0	316.3	316.4	317.7	318.7	317.3	317.2	317.1	317.3	316.4	315.7	316.6
Employed .....	295.7	296.7	297.7	298.7	299.3	299.7	299.4	299.5	299.2	299.6	298.9	298.0	297.9
Unemployed .....	19.8	19.4	18.6	17.7	18.4	19.1	18.0	17.7	17.8	17.7	17.5	17.7	18.7
Unemployment rate .....	6.3	6.1	5.9	5.6	5.8	6.0	5.7	5.6	5.6	5.6	5.5	5.6	5.9
<b>Arizona</b>													
Civilian labor force .....	2,209.2	2,217.6	2,230.8	2,244.3	2,254.0	2,262.9	2,276.2	2,288.5	2,303.1	2,311.2	2,326.1	2,341.6	2,360.0
Employed .....	2,116.9	2,125.1	2,135.2	2,147.5	2,158.1	2,168.0	2,182.0	2,193.5	2,208.8	2,218.9	2,233.3	2,249.5	2,267.7
Unemployed .....	92.3	92.4	95.6	96.8	95.9	94.9	94.3	95.0	94.3	92.3	92.8	92.2	92.3
Unemployment rate .....	4.2	4.2	4.3	4.3	4.3	4.2	4.1	4.2	4.1	4.0	4.0	3.9	3.9
<b>Arkansas</b>													
Civilian labor force .....	1,200.7	1,198.6	1,200.6	1,199.5	1,199.3	1,202.0	1,207.7	1,215.4	1,224.5	1,235.4	1,246.0	1,255.0	1,255.1
Employed .....	1,133.7	1,131.8	1,130.8	1,131.9	1,133.4	1,137.3	1,143.0	1,148.7	1,156.3	1,166.1	1,177.6	1,189.6	1,191.1
Unemployed .....	67.1	66.8	69.8	67.6	65.9	64.8	64.7	66.7	68.2	69.3	68.4	65.4	63.9
Unemployment rate .....	5.6	5.6	5.8	5.6	5.5	5.4	5.4	5.5	5.6	5.6	5.5	5.2	5.1
<b>California</b>													
Civilian labor force .....	16,184.3	16,216.9	16,247.3	16,265.0	16,299.5	16,319.9	16,380.9	16,370.6	16,404.3	16,401.1	16,437.1	16,421.3	16,440.8
Employed .....	15,214.6	15,244.1	15,280.5	15,297.4	15,329.2	15,355.6	15,415.3	15,400.7	15,425.6	15,438.3	15,473.0	15,452.9	15,506.8
Unemployed .....	969.7	972.8	966.8	967.6	970.3	964.3	965.6	969.9	978.6	962.8	964.1	968.4	934.0
Unemployment rate .....	6.0	6.0	6.0	5.9	6.0	5.9	5.9	5.9	6.0	5.9	5.9	5.9	5.7
<b>Colorado</b>													
Civilian labor force .....	2,211.4	2,219.5	2,226.9	2,231.7	2,242.2	2,251.3	2,256.6	2,254.2	2,261.8	2,265.3	2,264.0	2,261.1	2,273.4
Employed .....	2,131.0	2,136.3	2,140.7	2,143.5	2,153.0	2,158.2	2,166.3	2,165.1	2,172.6	2,179.1	2,182.3	2,183.7	2,203.0
Unemployed .....	80.5	83.2	86.3	88.2	89.2	93.0	90.4	89.1	89.2	86.3	81.7	77.4	70.4
Unemployment rate .....	3.6	3.7	3.9	4.0	4.0	4.1	4.0	4.0	3.9	3.8	3.6	3.4	3.1
<b>Connecticut</b>													
Civilian labor force .....	1,706.3	1,703.2	1,704.0	1,702.9	1,703.4	1,704.1	1,706.7	1,710.0	1,715.8	1,714.2	1,718.0	1,722.0	1,729.2
Employed .....	1,641.0	1,642.0	1,643.9	1,644.8	1,646.2	1,648.8	1,655.2	1,655.6	1,657.2	1,658.7	1,662.3	1,666.9	1,677.4
Unemployed .....	65.3	61.2	60.1	58.2	57.2	55.2	51.5	54.4	58.6	55.5	55.7	55.1	51.8
Unemployment rate .....	3.8	3.6	3.5	3.4	3.4	3.2	3.0	3.2	3.4	3.2	3.2	3.2	3.0
<b>Delaware</b>													
Civilian labor force .....	385.9	387.0	388.8	389.7	390.4	391.6	393.6	392.9	394.4	396.3	397.5	398.8	400.2
Employed .....	370.9	371.4	373.2	373.7	374.5	375.9	377.4	378.5	380.4	382.4	384.2	386.1	387.9
Unemployed .....	15.0	15.7	15.6	15.9	15.9	15.6	16.2	14.5	14.0	13.9	13.3	12.7	12.3
Unemployment rate .....	3.9	4.0	4.0	4.1	4.1	4.0	4.1	3.7	3.6	3.5	3.4	3.2	3.1
<b>District of Columbia</b>													
Civilian labor force .....	264.8	266.4	266.8	269.1	269.3	269.8	268.5	269.0	267.5	266.8	265.7	264.2	265.9
Employed .....	240.6	241.5	241.9	244.4	245.0	245.4	244.5	245.3	244.2	244.1	243.9	243.6	245.7
Unemployed .....	24.2	24.9	24.9	24.6	24.3	24.4	24.0	23.7	23.3	22.7	21.9	20.6	20.2
Unemployment rate .....	9.1	9.4	9.3	9.2	9.0	9.1	8.9	8.8	8.7	8.5	8.2	7.8	7.6
<b>Florida</b>													
Civilian labor force .....	7,140.3	7,136.9	7,135.6	7,165.5	7,174.1	7,199.1	7,221.1	7,242.6	7,276.3	7,309.9	7,346.0	7,386.5	7,422.5
Employed .....	6,817.2	6,820.0	6,819.5	6,850.9	6,863.4	6,890.3	6,920.7	6,941.6	6,972.3	7,001.6	7,035.2	7,075.5	7,109.9
Unemployed .....	323.1	316.9	316.1	314.5	310.6	308.9	300.3	301.0	303.9	308.3	310.8	310.9	312.6
Unemployment rate .....	4.5	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.2	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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>Georgia</b>													
Civilian labor force .....	3,989.3	4,002.2	4,008.1	4,015.6	4,020.5	4,027.9	4,031.3	4,030.3	4,034.2	4,032.1	4,031.5	4,026.0	4,038.8
Employed .....	3,815.3	3,826.4	3,832.5	3,841.3	3,847.5	3,854.4	3,858.6	3,863.8	3,868.8	3,870.0	3,871.9	3,869.7	3,881.4
Unemployed .....	174.0	175.9	175.6	174.3	173.1	173.5	172.8	166.5	165.4	162.1	159.7	156.3	157.5
Unemployment rate .....	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.1	4.1	4.0	4.0	3.9	3.9
<b>Hawaii</b>													
Civilian labor force .....	593.1	593.1	593.8	593.1	595.5	595.7	596.9	597.8	600.6	600.7	601.4	602.5	600.4
Employed .....	556.2	555.8	556.1	557.0	557.5	557.8	559.5	560.8	562.5	563.3	564.6	565.7	563.7
Unemployed .....	36.9	37.4	37.7	36.1	38.0	37.9	37.3	37.0	38.1	37.3	36.8	36.9	36.7
Unemployment rate .....	6.2	6.3	6.4	6.1	6.4	6.4	6.3	6.2	6.3	6.2	6.1	6.1	6.1
<b>Idaho</b>													
Civilian labor force .....	641.1	643.3	645.7	647.1	649.2	651.9	653.3	655.6	658.8	661.3	663.5	665.8	662.1
Employed .....	607.5	609.8	612.0	614.4	617.4	618.7	620.9	623.5	625.9	628.5	631.0	632.9	632.1
Unemployed .....	33.6	33.5	33.6	32.7	31.8	33.2	32.5	32.1	32.9	32.8	32.4	32.9	30.0
Unemployment rate .....	5.2	5.2	5.2	5.0	4.9	5.1	5.0	4.9	5.0	5.0	4.9	4.9	4.5
<b>Illinois</b>													
Civilian labor force .....	6,212.9	6,208.8	6,208.6	6,195.4	6,194.5	6,215.2	6,229.1	6,224.1	6,239.9	6,249.0	6,246.4	6,248.0	6,283.4
Employed .....	5,924.2	5,927.1	5,926.5	5,928.0	5,932.5	5,932.0	5,947.8	5,946.0	5,958.3	5,970.7	5,971.3	5,983.3	6,030.9
Unemployed .....	288.7	281.7	282.1	267.5	262.0	283.1	281.2	278.1	281.6	278.3	275.1	264.7	252.4
Unemployment rate .....	4.6	4.5	4.5	4.3	4.2	4.6	4.5	4.5	4.5	4.5	4.4	4.2	4.0
<b>Indiana</b>													
Civilian labor force .....	3,080.6	3,077.4	3,076.1	3,072.3	3,070.4	3,072.1	3,076.4	3,084.8	3,097.5	3,107.2	3,116.5	3,127.3	3,119.5
Employed .....	2,976.5	2,975.5	2,975.9	2,980.3	2,977.9	2,982.8	2,981.1	2,991.3	3,000.9	3,014.5	3,022.1	3,034.1	3,023.6
Unemployed .....	104.1	101.9	100.2	92.0	92.5	89.2	95.3	93.5	96.7	92.7	94.4	93.2	95.9
Unemployment rate .....	3.4	3.3	3.3	3.0	3.0	2.9	3.1	3.0	3.1	3.0	3.0	3.0	3.1
<b>Iowa</b>													
Civilian labor force .....	1,569.2	1,568.3	1,567.0	1,565.7	1,564.8	1,565.2	1,564.6	1,568.4	1,572.3	1,572.7	1,576.5	1,580.8	1,589.6
Employed .....	1,523.1	1,523.5	1,521.0	1,521.8	1,522.3	1,521.9	1,522.6	1,526.0	1,529.9	1,531.0	1,534.5	1,538.9	1,543.7
Unemployed .....	46.1	44.8	46.0	43.9	42.4	43.4	42.0	42.4	42.4	41.7	42.1	41.9	45.9
Unemployment rate .....	2.9	2.9	2.9	2.8	2.7	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.9
<b>Kansas</b>													
Civilian labor force .....	1,387.9	1,390.1	1,392.9	1,397.9	1,403.2	1,407.7	1,413.5	1,416.2	1,420.0	1,427.4	1,434.2	1,436.4	1,444.2
Employed .....	1,335.7	1,337.8	1,338.1	1,343.7	1,348.3	1,352.2	1,357.3	1,361.5	1,365.3	1,373.4	1,380.4	1,384.6	1,395.5
Unemployed .....	52.3	52.3	54.7	54.2	54.9	55.5	56.2	54.7	54.7	54.0	53.8	51.8	48.7
Unemployment rate .....	3.8	3.8	3.9	3.9	3.9	3.9	4.0	3.9	3.8	3.8	3.8	3.6	3.4
<b>Kentucky</b>													
Civilian labor force .....	1,917.8	1,916.3	1,917.1	1,919.6	1,920.7	1,923.0	1,920.6	1,924.1	1,926.4	1,930.6	1,932.6	1,936.1	1,939.5
Employed .....	1,824.8	1,824.0	1,824.3	1,827.8	1,829.3	1,831.4	1,833.9	1,836.1	1,839.4	1,845.5	1,849.9	1,855.9	1,858.3
Unemployed .....	93.0	92.2	92.8	91.8	91.4	91.6	86.7	88.0	87.0	85.1	82.8	80.2	81.2
Unemployment rate .....	4.9	4.8	4.8	4.8	4.8	4.8	4.5	4.6	4.5	4.4	4.3	4.1	4.2
<b>Louisiana</b>													
Civilian labor force .....	2,047.7	2,044.4	2,045.4	2,064.1	2,073.3	2,076.4	2,076.8	2,073.0	2,066.4	2,065.9	2,061.8	2,061.3	2,068.3
Employed .....	1,929.6	1,930.9	1,927.4	1,939.8	1,952.0	1,953.5	1,950.3	1,949.7	1,947.9	1,956.1	1,951.6	1,952.4	1,960.9
Unemployed .....	118.1	113.5	117.9	124.3	121.2	122.9	126.5	123.3	118.5	109.8	110.3	108.9	107.4
Unemployment rate .....	5.8	5.6	5.8	6.0	5.8	5.9	6.1	5.9	5.7	5.3	5.3	5.3	5.2
<b>Maine</b>													
Civilian labor force .....	648.0	645.3	644.6	643.6	645.6	646.4	648.6	650.4	653.1	658.6	662.2	664.7	660.4
Employed .....	614.2	615.3	614.9	616.4	617.1	617.8	619.8	621.4	624.7	630.1	635.5	639.5	637.7
Unemployed .....	33.8	30.0	29.7	27.1	28.5	28.6	28.8	28.9	28.3	28.5	26.7	25.2	22.6
Unemployment rate .....	5.2	4.7	4.6	4.2	4.4	4.4	4.4	4.4	4.3	4.3	4.0	3.8	3.4

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	1998												1999
	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>Maryland</b>													
Civilian labor force .....	2,751.1	2,743.7	2,737.6	2,734.7	2,733.6	2,736.6	2,750.1	2,754.6	2,760.0	2,774.8	2,788.6	2,806.7	2,808.7
Employed .....	2,613.0	2,609.6	2,605.8	2,603.6	2,603.2	2,608.9	2,619.8	2,629.1	2,641.6	2,659.7	2,676.1	2,696.7	2,705.3
Unemployed .....	138.2	134.1	131.8	131.1	130.3	127.7	130.3	125.5	118.4	115.2	112.5	109.9	103.4
Unemployment rate .....	5.0	4.9	4.8	4.8	4.8	4.7	4.7	4.6	4.3	4.2	4.0	3.9	3.7
<b>Massachusetts</b>													
Civilian labor force .....	3,278.4	3,279.3	3,279.9	3,272.9	3,280.3	3,274.9	3,274.4	3,270.0	3,274.2	3,272.7	3,264.4	3,259.5	3,263.1
Employed .....	3,159.2	3,163.7	3,164.1	3,164.4	3,165.6	3,164.9	3,169.0	3,164.9	3,164.9	3,166.5	3,163.1	3,159.2	3,161.3
Unemployed .....	119.1	115.7	115.8	105.5	114.7	110.0	105.4	105.5	109.3	106.3	101.3	100.4	101.9
Unemployment rate .....	3.6	3.5	3.5	3.2	3.5	3.4	3.2	3.2	3.3	3.2	3.1	3.1	3.1
<b>Michigan</b>													
Civilian labor force .....	5,008.4	5,012.9	5,012.7	5,017.5	5,020.9	5,031.9	5,011.5	5,027.0	5,038.8	5,054.1	5,057.3	5,057.8	5,060.8
Employed .....	4,810.4	4,815.3	4,818.7	4,831.8	4,832.6	4,839.4	4,796.2	4,836.0	4,846.7	4,861.9	4,867.2	4,864.5	4,870.7
Unemployed .....	197.9	197.6	194.0	185.6	188.2	192.5	215.3	191.0	192.1	192.2	190.2	193.2	190.1
Unemployment rate .....	4.0	3.9	3.9	3.7	3.7	3.8	4.3	3.8	3.8	3.8	3.8	3.8	3.8
<b>Minnesota</b>													
Civilian labor force .....	2,648.3	2,653.9	2,658.9	2,664.5	2,674.6	2,679.4	2,683.4	2,689.2	2,695.9	2,704.0	2,712.5	2,715.6	2,714.3
Employed .....	2,576.0	2,583.0	2,587.0	2,599.5	2,605.7	2,612.4	2,617.6	2,623.9	2,623.5	2,637.4	2,644.1	2,650.7	2,650.0
Unemployed .....	72.3	70.9	71.8	65.0	68.9	67.0	65.8	65.2	72.3	66.6	68.3	64.9	64.3
Unemployment rate .....	2.7	2.7	2.7	2.4	2.6	2.5	2.5	2.4	2.7	2.5	2.5	2.4	2.4
<b>Mississippi</b>													
Civilian labor force .....	1,261.5	1,260.9	1,262.5	1,262.1	1,262.0	1,262.4	1,268.1	1,266.7	1,272.3	1,276.6	1,281.1	1,287.4	1,290.8
Employed .....	1,191.1	1,190.9	1,190.3	1,192.7	1,194.0	1,195.6	1,200.9	1,199.5	1,204.4	1,210.4	1,214.7	1,219.9	1,223.4
Unemployed .....	70.3	70.0	72.2	69.4	68.0	66.8	67.3	67.2	68.0	66.2	66.4	67.5	67.3
Unemployment rate .....	5.6	5.5	5.7	5.5	5.4	5.3	5.3	5.3	5.3	5.2	5.2	5.2	5.2
<b>Missouri</b>													
Civilian labor force .....	2,850.7	2,849.4	2,837.8	2,841.8	2,848.5	2,846.6	2,846.8	2,846.1	2,858.7	2,874.0	2,886.6	2,900.1	2,884.0
Employed .....	2,721.3	2,719.5	2,705.3	2,712.8	2,721.0	2,722.0	2,724.1	2,729.3	2,747.6	2,766.3	2,784.5	2,806.1	2,810.3
Unemployed .....	129.4	129.9	132.5	129.0	127.5	124.6	122.6	116.8	111.1	107.6	102.0	94.1	73.7
Unemployment rate .....	4.5	4.6	4.7	4.5	4.5	4.4	4.3	4.1	3.9	3.7	3.5	3.2	2.6
<b>Montana</b>													
Civilian labor force .....	462.7	463.5	464.5	465.8	466.8	467.7	468.4	468.3	469.3	471.3	472.8	472.8	476.1
Employed .....	436.2	437.3	437.9	439.5	440.3	441.3	442.5	442.5	443.0	444.7	446.2	447.1	451.4
Unemployed .....	26.4	26.3	26.7	26.3	26.5	26.4	25.9	25.8	26.2	26.6	26.6	25.7	24.7
Unemployment rate .....	5.7	5.7	5.7	5.7	5.7	5.7	5.5	5.5	5.6	5.6	5.6	5.4	5.2
<b>Nebraska</b>													
Civilian labor force .....	903.4	903.7	904.6	907.4	908.9	912.3	918.4	919.1	922.5	927.4	932.6	936.9	933.9
Employed .....	879.6	879.8	878.8	883.2	884.3	887.4	892.2	893.6	897.6	902.7	907.8	913.4	911.9
Unemployed .....	23.8	24.0	25.9	24.2	24.6	24.8	26.3	25.5	24.9	24.8	24.8	23.5	22.0
Unemployment rate .....	2.6	2.7	2.9	2.7	2.7	2.7	2.9	2.8	2.7	2.7	2.7	2.5	2.4
<b>Nevada</b>													
Civilian labor force .....	902.4	907.3	909.9	913.4	916.3	921.2	922.2	923.6	925.5	930.3	932.3	933.5	937.1
Employed .....	860.0	863.4	865.8	869.7	873.5	877.9	881.3	884.6	889.0	895.6	899.1	903.0	905.8
Unemployed .....	42.4	43.9	44.1	43.7	42.8	43.3	40.9	39.1	36.5	34.7	33.2	30.5	31.3
Unemployment rate .....	4.7	4.8	4.8	4.8	4.7	4.7	4.4	4.2	3.9	3.7	3.6	3.3	3.3
<b>New Hampshire</b>													
Civilian labor force .....	649.0	649.2	648.8	648.1	648.0	647.4	647.8	648.9	652.4	658.3	661.9	666.5	669.6
Employed .....	629.0	629.1	628.7	628.5	628.7	628.9	630.6	631.5	634.2	639.0	642.9	648.0	651.3
Unemployed .....	19.9	20.1	20.1	19.6	19.3	18.5	17.3	17.4	18.3	19.3	19.0	18.5	18.3
Unemployment rate .....	3.1	3.1	3.1	3.0	3.0	2.9	2.7	2.7	2.8	2.9	2.9	2.8	2.7

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>New Jersey</b>													
Civilian labor force .....	4,163.9	4,153.5	4,144.4	4,147.0	4,145.9	4,140.5	4,138.4	4,141.9	4,153.4	4,162.4	4,173.2	4,193.7	4,213.6
Employed .....	3,966.3	3,958.0	3,948.6	3,950.1	3,950.9	3,947.5	3,948.0	3,953.4	3,963.6	3,975.6	3,987.1	4,009.1	4,030.2
Unemployed .....	197.7	195.5	195.8	196.8	195.0	193.1	190.4	188.5	189.7	186.7	186.1	184.6	183.4
Unemployment rate .....	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.5	4.5	4.4	4.4
<b>New Mexico</b>													
Civilian labor force .....	822.7	824.6	827.4	827.9	828.8	830.6	831.1	832.4	833.5	836.0	838.2	839.4	838.8
Employed .....	774.9	776.1	777.6	778.3	778.0	778.8	779.6	780.1	780.7	782.5	784.3	785.4	786.4
Unemployed .....	47.8	48.6	49.7	49.6	50.8	51.8	51.5	52.3	52.7	53.5	53.9	53.9	52.4
Unemployment rate .....	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4	6.2
<b>New York</b>													
Civilian labor force .....	8,880.1	8,890.6	8,878.0	8,868.2	8,871.5	8,862.3	8,850.1	8,854.9	8,870.5	8,868.0	8,873.5	8,874.4	8,856.9
Employed .....	8,343.7	8,358.1	8,361.1	8,363.5	8,373.8	8,375.9	8,365.8	8,374.6	8,383.5	8,385.5	8,389.3	8,391.8	8,394.7
Unemployed .....	536.4	532.5	516.9	504.8	497.7	486.4	484.3	480.3	487.0	482.4	484.2	482.6	462.2
Unemployment rate .....	6.0	6.0	5.8	5.7	5.6	5.5	5.5	5.4	5.5	5.4	5.5	5.4	5.2
<b>North Carolina</b>													
Civilian labor force .....	3,797.3	3,788.2	3,782.6	3,779.7	3,773.3	3,767.2	3,784.8	3,791.7	3,797.8	3,812.6	3,820.0	3,833.8	3,859.2
Employed .....	3,658.3	3,649.2	3,643.2	3,644.5	3,643.2	3,639.7	3,658.6	3,659.1	3,669.0	3,683.5	3,696.1	3,713.9	3,742.1
Unemployed .....	139.0	139.0	139.4	135.3	130.1	127.6	126.2	132.6	128.9	129.1	124.0	119.9	117.1
Unemployment rate .....	3.7	3.7	3.7	3.6	3.4	3.4	3.3	3.5	3.4	3.4	3.2	3.1	3.0
<b>North Dakota</b>													
Civilian labor force .....	348.2	348.0	348.7	347.7	347.8	347.5	346.8	346.5	346.1	345.6	345.4	345.1	346.5
Employed .....	337.6	337.1	336.2	336.4	336.3	335.6	335.3	334.7	335.0	335.2	335.5	336.0	337.3
Unemployed .....	10.6	10.9	12.5	11.3	11.5	11.9	11.5	11.8	11.0	10.4	9.9	9.1	9.2
Unemployment rate .....	3.1	3.1	3.6	3.2	3.3	3.4	3.3	3.4	3.2	3.0	2.9	2.6	2.6
<b>Ohio</b>													
Civilian labor force .....	5,643.6	5,634.1	5,626.7	5,625.0	5,641.3	5,649.8	5,665.4	5,676.3	5,699.3	5,728.1	5,754.6	5,791.1	5,798.9
Employed .....	5,408.4	5,396.8	5,388.6	5,395.6	5,399.2	5,402.2	5,392.1	5,429.2	5,455.9	5,487.2	5,520.8	5,561.7	5,564.2
Unemployed .....	235.1	237.3	238.0	229.4	242.1	247.6	273.3	247.1	243.4	240.9	233.8	229.4	234.7
Unemployment rate .....	4.2	4.2	4.2	4.1	4.3	4.4	4.8	4.4	4.3	4.2	4.1	4.0	4.0
<b>Oklahoma</b>													
Civilian labor force .....	1,606.7	1,612.7	1,614.9	1,619.2	1,620.9	1,625.0	1,633.2	1,630.2	1,634.6	1,639.0	1,642.6	1,647.9	1,644.2
Employed .....	1,541.2	1,542.2	1,542.6	1,545.7	1,547.9	1,549.3	1,551.5	1,555.4	1,559.7	1,564.1	1,569.1	1,574.7	1,580.1
Unemployed .....	65.5	70.5	72.3	73.5	73.0	75.8	81.7	74.9	74.8	74.9	73.5	73.2	64.1
Unemployment rate .....	4.1	4.4	4.5	4.5	4.5	4.7	5.0	4.6	4.6	4.6	4.5	4.4	3.9
<b>Oregon</b>													
Civilian labor force .....	1,765.5	1,753.7	1,752.8	1,752.0	1,752.6	1,752.7	1,756.8	1,759.7	1,768.6	1,777.5	1,778.0	1,775.7	1,776.7
Employed .....	1,667.6	1,658.1	1,656.4	1,654.9	1,654.6	1,653.1	1,658.3	1,659.7	1,667.5	1,676.8	1,679.4	1,677.5	1,674.9
Unemployed .....	97.9	95.6	96.4	97.0	98.0	99.6	98.5	99.9	101.2	100.7	98.7	98.2	101.8
Unemployment rate .....	5.5	5.4	5.5	5.5	5.6	5.7	5.6	5.7	5.7	5.7	5.5	5.5	5.7
<b>Pennsylvania</b>													
Civilian labor force .....	5,959.1	5,949.6	5,945.4	5,937.5	5,936.9	5,927.4	5,931.5	5,930.8	5,932.1	5,926.1	5,928.4	5,930.2	5,947.0
Employed .....	5,669.3	5,664.3	5,660.2	5,663.9	5,661.1	5,652.5	5,658.1	5,657.8	5,659.6	5,657.0	5,662.8	5,668.0	5,688.5
Unemployed .....	289.7	285.3	285.2	273.7	275.8	274.9	273.5	273.0	272.6	269.1	265.7	262.2	258.5
Unemployment rate .....	4.9	4.8	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3
<b>Rhode Island</b>													
Civilian labor force .....	499.5	498.9	498.3	497.3	496.4	495.7	496.8	497.1	498.7	499.2	499.2	500.7	498.6
Employed .....	472.8	472.4	472.0	471.6	471.4	471.5	472.9	472.8	474.9	475.8	477.1	480.1	476.6
Unemployed .....	26.7	26.5	26.4	25.7	24.9	24.2	23.9	24.3	23.9	23.4	22.1	20.6	22.0
Unemployment rate .....	5.3	5.3	5.3	5.2	5.0	4.9	4.8	4.9	4.8	4.7	4.4	4.1	4.4

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	1998												1999
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>
<b>South Carolina</b>													
Civilian labor force .....	1,948.9	1,947.5	1,946.9	1,952.7	1,955.7	1,959.1	1,967.3	1,965.0	1,962.8	1,966.7	1,967.2	1,966.9	1,973.0
Employed .....	1,673.9	1,676.5	1,680.2	1,681.7	1,681.9	1,684.8	1,690.1	1,687.9	1,687.3	1,689.1	1,689.4	1,690.2	1,699.9
Unemployed .....	75.1	71.0	66.8	71.0	73.9	74.3	77.2	77.1	75.5	77.6	77.8	76.7	73.1
Unemployment rate .....	3.9	3.6	3.4	3.6	3.8	3.8	3.9	3.9	3.8	3.9	4.0	3.9	3.7
<b>South Dakota</b>													
Civilian labor force .....	394.2	395.0	396.3	396.7	397.7	398.4	398.5	398.4	399.3	399.7	400.1	399.5	399.4
Employed .....	381.8	383.0	384.2	385.1	386.2	386.8	387.1	387.5	388.3	388.8	389.1	389.3	389.3
Unemployed .....	12.4	12.0	12.1	11.6	11.5	11.6	11.5	11.0	10.9	10.9	11.1	10.2	10.1
Unemployment rate .....	3.1	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.7	2.7	2.8	2.6	2.5
<b>Tennessee</b>													
Civilian labor force .....	2,714.5	2,722.2	2,731.1	2,739.9	2,748.4	2,757.5	2,767.5	2,773.4	2,779.0	2,788.6	2,792.2	2,799.6	2,813.9
Employed .....	2,591.9	2,602.1	2,610.3	2,622.6	2,633.4	2,646.4	2,657.5	2,660.5	2,664.6	2,674.1	2,678.6	2,683.9	2,694.9
Unemployed .....	122.5	120.1	120.9	117.3	115.0	111.0	110.0	112.9	114.4	114.5	113.6	115.7	118.9
Unemployment rate .....	4.5	4.4	4.4	4.3	4.2	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.2
<b>Texas</b>													
Civilian labor force .....	9,975.4	9,995.6	10,022.1	10,052.7	10,078.5	10,122.2	10,143.0	10,166.3	10,188.5	10,202.4	10,223.3	10,240.3	10,284.6
Employed .....	9,486.7	9,519.1	9,547.8	9,577.3	9,601.8	9,624.6	9,650.3	9,673.1	9,692.6	9,715.0	9,733.6	9,749.9	9,801.2
Unemployed .....	488.7	476.5	474.3	475.3	476.6	497.6	492.8	493.3	495.9	487.4	489.7	490.3	483.4
Unemployment rate .....	4.9	4.8	4.7	4.7	4.7	4.9	4.9	4.9	4.9	4.8	4.8	4.8	4.7
<b>Utah</b>													
Civilian labor force .....	1,047.9	1,048.9	1,050.2	1,052.4	1,053.7	1,057.0	1,062.1	1,064.7	1,069.1	1,075.2	1,081.0	1,088.1	1,094.8
Employed .....	1,009.3	1,009.0	1,009.1	1,010.3	1,012.4	1,015.5	1,019.4	1,023.8	1,029.9	1,036.7	1,044.2	1,052.5	1,058.8
Unemployed .....	38.6	39.8	41.1	42.1	41.3	41.5	42.7	40.9	39.2	38.4	36.8	35.6	36.0
Unemployment rate .....	3.7	3.8	3.9	4.0	3.9	3.9	4.0	3.8	3.7	3.6	3.4	3.3	3.3
<b>Vermont</b>													
Civilian labor force .....	327.5	327.5	328.2	327.6	327.9	328.6	330.0	331.1	331.4	332.8	334.3	335.8	335.7
Employed .....	315.4	315.4	316.5	317.0	316.8	317.6	318.9	320.0	320.4	321.7	324.0	325.8	325.2
Unemployed .....	12.2	12.1	11.7	10.6	11.1	11.1	11.1	11.1	11.0	11.0	10.3	10.0	10.5
Unemployment rate .....	3.7	3.7	3.6	3.2	3.4	3.4	3.4	3.3	3.3	3.3	3.1	3.0	3.1
<b>Virginia</b>													
Civilian labor force .....	3,425.0	3,430.0	3,433.7	3,444.8	3,460.1	3,472.9	3,481.0	3,499.9	3,521.3	3,540.5	3,560.3	3,585.9	3,587.3
Employed .....	3,317.3	3,325.7	3,332.5	3,347.1	3,360.3	3,372.7	3,383.8	3,400.2	3,419.8	3,438.4	3,456.7	3,480.2	3,493.1
Unemployed .....	107.7	104.3	101.2	97.7	99.8	100.2	97.2	99.8	101.4	102.1	103.6	105.6	94.2
Unemployment rate .....	3.1	3.0	2.9	2.8	2.9	2.9	2.8	2.9	2.9	2.9	2.9	2.9	2.6
<b>Washington</b>													
Civilian labor force .....	3,018.0	3,018.7	3,017.8	3,017.7	3,028.6	3,029.2	3,038.7	3,039.9	3,050.7	3,064.5	3,068.0	3,078.2	3,079.6
Employed .....	2,879.7	2,881.5	2,879.0	2,877.7	2,885.7	2,884.7	2,892.7	2,893.3	2,899.4	2,914.7	2,918.8	2,927.6	2,935.6
Unemployed .....	138.2	137.2	138.8	140.0	142.9	144.6	146.0	146.5	151.3	149.8	149.2	150.6	144.1
Unemployment rate .....	4.6	4.5	4.6	4.6	4.7	4.8	4.8	4.8	5.0	4.9	4.9	4.9	4.7
<b>West Virginia</b>													
Civilian labor force .....	795.6	796.6	799.6	796.8	804.0	799.2	800.8	799.2	799.5	802.3	802.1	803.8	811.7
Employed .....	743.1	743.9	742.3	742.0	749.2	743.8	746.2	745.4	746.8	750.7	752.5	755.5	759.5
Unemployed .....	52.5	52.7	57.3	54.8	54.8	55.4	54.6	53.7	52.7	51.7	49.6	48.4	52.2
Unemployment rate .....	6.6	6.6	7.2	6.9	6.8	6.9	6.8	6.7	6.6	6.4	6.2	6.0	6.4
<b>Wisconsin</b>													
Civilian labor force .....	2,936.1	2,934.3	2,930.7	2,932.4	2,939.6	2,945.9	2,955.5	2,952.9	2,960.0	2,969.4	2,979.3	2,986.2	3,000.1
Employed .....	2,840.3	2,842.1	2,837.1	2,846.2	2,846.0	2,848.1	2,848.7	2,850.8	2,856.0	2,862.6	2,872.0	2,879.9	2,896.1
Unemployed .....	95.8	92.1	93.6	86.2	93.7	97.8	106.8	102.1	104.1	106.8	107.4	106.3	104.0
Unemployment rate .....	3.3	3.1	3.2	2.9	3.2	3.3	3.6	3.5	3.5	3.6	3.6	3.6	3.5
<b>Wyoming</b>													
Civilian labor force .....	254.3	255.2	256.2	256.9	258.1	258.5	259.0	259.0	259.1	259.8	259.9	259.6	260.3
Employed .....	241.8	242.8	243.7	244.7	245.6	245.7	246.6	246.6	246.7	247.5	247.6	247.9	248.2
Unemployed .....	12.5	12.3	12.5	12.2	12.5	12.7	12.4	12.4	12.4	12.4	12.3	11.7	12.1
Unemployment rate .....	4.9	4.8	4.9	4.8	4.9	4.9	4.8	4.8	4.8	4.8	4.7	4.5	4.6

<sup>P</sup> = preliminary.

NOTE: Data refer to place of residence. Data have been revised to incorporate

updated population controls, reestimation of models, benchmarking to CPS annual averages, and new seasonal adjustment factors.

**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					
	Jan. 1998	Dec. 1998	Jan. 1999P	Number			Percent of labor force		
				Jan. 1998	Dec. 1998	Jan. 1999P	Jan. 1998	Dec. 1998	Jan. 1999P
<b>Alabama</b> .....	2,134.5	2,161.5	2,140.6	94.6	71.8	82.7	4.4	3.3	3.9
Anniston .....	54.6	55.0	54.6	2.5	1.8	2.3	4.7	3.3	4.3
Birmingham .....	466.6	478.6	470.7	13.3	10.4	11.5	2.8	2.2	2.4
Decatur .....	72.7	72.8	72.3	3.2	2.4	2.7	4.4	3.3	3.8
Dothan .....	65.7	66.4	65.6	2.5	1.8	2.3	3.8	2.7	3.5
Florence .....	69.5	69.1	68.7	5.1	3.4	3.7	7.4	5.0	5.4
Gadsden .....	49.2	50.4	50.2	2.1	2.3	2.8	4.3	4.6	5.6
Huntsville .....	169.1	172.5	170.5	5.0	4.2	4.6	3.0	2.4	2.7
Mobile .....	264.1	273.4	271.7	10.5	8.1	9.9	4.0	3.0	3.6
Montgomery .....	160.5	164.5	163.5	5.6	3.9	4.6	3.5	2.4	2.8
Tuscaloosa .....	82.3	85.2	83.7	2.5	1.6	2.0	3.0	1.9	2.4
<b>Alaska</b> .....	309.4	310.5	310.4	24.2	18.2	22.9	7.8	5.9	7.4
Anchorage .....	140.4	144.5	141.8	7.3	5.3	6.8	5.2	3.6	4.8
<b>Arizona</b> .....	2,182.8	2,347.2	2,331.5	86.5	85.5	86.5	4.0	3.6	3.7
Flagstaff .....	58.2	59.6	62.0	5.4	4.1	4.5	9.3	6.8	7.3
Phoenix-Mesa .....	1,447.4	1,569.5	1,557.5	38.4	41.3	41.8	2.7	2.6	2.7
Tucson .....	357.9	385.0	377.0	10.6	9.0	9.1	3.0	2.3	2.4
Yuma .....	57.9	63.1	60.8	10.8	12.7	11.4	18.6	20.1	18.7
<b>Arkansas</b> .....	1,175.2	1,247.5	1,229.2	75.8	65.2	72.4	6.5	5.2	5.9
Fayetteville-Springdale-Rogers .....	133.0	143.8	140.5	5.4	4.0	4.5	4.1	2.8	3.2
Fort Smith .....	92.6	97.4	96.4	5.9	4.9	5.1	6.4	5.0	5.3
Jonesboro .....	39.3	42.6	41.6	1.9	1.5	1.7	4.8	3.6	4.2
Little Rock-North Little Rock .....	286.8	303.6	299.3	12.7	10.4	11.3	4.4	3.4	3.8
Pine Bluff .....	35.1	37.3	36.8	3.2	3.1	3.2	9.0	8.4	8.7
<b>California</b> .....	16,093.5	16,350.0	16,350.0	1,066.9	900.3	1,031.3	6.6	5.5	6.3
Bakersfield .....	278.4	279.9	281.0	38.6	34.0	39.4	13.9	12.2	14.0
Chico-Paradise .....	84.2	87.1	86.8	8.9	6.2	7.5	10.6	7.1	8.7
Fresno .....	420.0	422.1	427.5	70.4	59.0	71.1	16.8	14.0	16.6
Los Angeles-Long Beach .....	4,548.8	4,627.6	4,589.2	298.8	288.4	304.9	6.6	6.2	6.6
Merced .....	84.4	84.0	85.2	16.3	12.6	14.9	19.4	15.0	17.5
Modesto .....	196.7	197.6	200.7	29.0	22.1	26.7	14.7	11.2	13.3
Oakland .....	1,177.6	1,198.8	1,200.1	50.6	39.2	46.6	4.3	3.3	3.9
Orange County .....	1,419.2	1,448.9	1,455.4	43.6	35.7	42.8	3.1	2.5	2.9
Redding .....	73.6	70.7	71.2	8.8	5.9	6.9	12.0	8.4	9.7
Riverside-San Bernardino .....	1,370.2	1,397.7	1,412.3	89.0	69.1	81.0	6.5	4.9	5.7
Sacramento .....	751.6	763.2	763.4	44.4	30.9	36.5	5.9	4.0	4.8
Salinas .....	186.2	185.0	187.5	34.8	27.2	32.7	18.7	14.7	17.4
San Diego .....	1,298.3	1,327.1	1,332.0	49.0	40.0	47.8	3.8	3.0	3.6
San Francisco .....	932.9	956.0	952.3	30.0	22.6	27.3	3.2	2.4	2.9
San Jose .....	955.4	961.9	963.9	28.7	30.1	36.1	3.0	3.1	3.7
San Luis Obispo-Atascadero-Paso Robles .....	106.9	108.8	107.2	5.2	4.0	4.4	4.9	3.7	4.1
Santa Barbara-Santa Maria-Lompoc .....	193.0	195.3	193.4	11.3	9.2	10.7	5.9	4.7	5.5
Santa Cruz-Watsonville .....	139.7	139.2	139.8	15.8	11.7	14.3	11.3	8.4	10.2
Santa Rosa .....	241.1	250.5	248.9	10.5	6.7	8.2	4.3	2.7	3.3
Stockton-Lodi .....	244.7	245.3	247.2	32.1	25.2	29.5	13.1	10.3	12.0
Vallejo-Fairfield-Napa .....	237.0	243.7	245.1	15.7	11.1	13.5	6.6	4.6	5.5
Ventura .....	383.7	391.6	389.0	24.1	20.5	22.6	6.3	5.2	5.8
Visalia-Tulare-Porterville .....	163.6	163.6	165.1	29.6	26.7	33.9	18.1	16.3	20.5
Yolo .....	86.9	85.5	85.7	7.0	4.8	6.0	8.1	5.7	7.0
Yuba City .....	55.7	55.3	55.8	10.1	8.0	8.9	18.2	14.6	16.0
<b>Colorado</b> .....	2,176.0	2,253.6	2,237.7	86.6	66.6	76.3	4.0	3.0	3.4
Boulder-Longmont .....	165.6	174.3	170.5	5.2	4.4	4.9	3.1	2.5	2.9
Colorado Springs .....	247.4	255.2	252.4	10.3	8.8	9.6	4.2	3.4	3.8
Denver .....	1,089.9	1,132.3	1,123.8	35.9	27.4	31.2	3.3	2.4	2.8
Fort Collins-Loveland .....	134.1	142.1	141.5	5.3	4.6	5.4	3.9	3.2	3.8
Grand Junction .....	56.3	58.8	58.6	3.3	2.5	3.1	5.9	4.2	5.2
Greeley .....	82.3	83.2	82.0	3.9	3.0	3.5	4.8	3.6	4.3
Pueblo .....	60.6	61.6	60.6	5.0	3.5	3.5	8.2	5.7	5.8
<b>Connecticut</b> .....	1,679.9	1,706.7	1,701.2	74.2	47.7	60.8	4.4	2.8	3.6
Bridgeport .....	216.8	219.6	217.3	11.0	7.5	9.3	5.1	3.4	4.3
Danbury .....	107.2	110.9	108.5	3.2	2.1	2.8	2.9	1.9	2.6
Hartford .....	570.8	579.4	577.3	26.8	16.6	21.8	4.7	2.9	3.8
New Haven-Meriden .....	266.6	271.3	272.4	11.2	7.6	9.3	4.2	2.8	3.4
New London-Norwich .....	150.1	150.9	151.6	7.6	4.5	5.8	5.1	3.0	3.8
Stamford-Norwalk .....	188.6	192.7	192.1	5.2	3.8	4.5	2.8	2.0	2.3
Waterbury .....	113.7	115.4	115.3	5.9	3.9	5.0	5.2	3.4	4.4
<b>Delaware</b> .....	383.7	399.3	397.9	17.7	10.7	15.1	4.6	2.7	3.8
Dover .....	67.5	69.9	70.0	3.4	1.9	2.8	5.0	2.7	4.0
Wilmington-Newark .....	291.5	300.3	298.5	14.2	7.9	9.8	4.9	2.6	3.3

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					
	Jan. 1998	Dec. 1998	Jan. 1999P	Number			Percent of labor force		
				Jan. 1998	Dec. 1998	Jan. 1999P	Jan. 1998	Dec. 1998	Jan. 1999P
District of Columbia .....	259.8	261.7	260.8	24.0	18.8	20.0	9.3	7.2	7.7
Washington .....	2,488.5	2,601.7	2,560.6	89.5	66.3	72.9	3.6	2.5	2.8
<b>Florida</b> .....	<b>7,031.3</b>	<b>7,375.1</b>	<b>7,310.8</b>	<b>339.3</b>	<b>282.2</b>	<b>328.9</b>	<b>4.8</b>	<b>3.8</b>	<b>4.5</b>
Daytona Beach .....	185.7	191.1	190.9	7.8	6.4	7.1	4.2	3.3	3.7
Fort Lauderdale .....	738.0	770.5	760.4	37.6	31.7	36.5	5.1	4.1	4.8
Fort Myers-Cape Coral .....	171.5	177.6	177.1	5.9	4.5	5.1	3.4	2.5	2.9
Fort Pierce-Port St. Lucie .....	118.9	122.5	122.1	9.8	8.8	9.3	8.3	7.2	7.7
Fort Walton Beach .....	76.4	79.7	78.6	3.5	2.6	3.2	4.5	3.3	4.0
Gainesville .....	100.9	104.4	103.1	3.0	2.2	2.7	3.0	2.1	2.6
Jacksonville .....	513.9	540.1	535.3	19.5	14.6	17.8	3.8	2.7	3.3
Lakeland-Winter Haven .....	194.7	200.1	199.5	10.2	8.1	9.7	5.3	4.1	4.9
Melbourne-Titusville-Palm Bay .....	198.2	207.7	207.4	9.3	8.6	10.1	4.7	4.1	4.9
Miami .....	1,020.1	1,048.3	1,042.0	72.7	64.0	74.2	7.1	6.1	7.1
Naples .....	90.8	96.9	96.0	3.6	2.9	3.0	3.9	3.0	3.1
Ocala .....	94.6	98.8	98.3	4.7	3.6	4.4	4.9	3.7	4.5
Orlando .....	809.1	862.8	850.9	27.8	22.7	26.9	3.4	2.6	3.2
Panama City .....	63.1	64.8	65.1	6.3	5.1	6.3	9.9	7.9	9.6
Pensacola .....	165.7	174.6	173.2	7.5	6.1	7.3	4.5	3.5	4.2
Punta Gorda .....	44.7	45.4	45.3	2.1	1.4	1.8	4.8	3.0	4.0
Sarasota-Bradenton .....	252.3	266.4	264.0	7.9	5.5	6.9	3.1	2.1	2.6
Tallahassee .....	141.4	148.5	145.1	4.9	3.9	4.8	3.4	2.6	3.3
Tampa-St. Petersburg-Clearwater .....	1,138.0	1,206.9	1,198.4	41.8	32.1	38.2	3.7	2.7	3.2
West Palm Beach-Boca Raton .....	484.7	527.8	520.1	27.4	24.3	27.6	5.7	4.6	5.3
<b>Georgia</b> .....	<b>3,935.9</b>	<b>4,037.6</b>	<b>3,982.6</b>	<b>160.7</b>	<b>145.0</b>	<b>144.0</b>	<b>4.1</b>	<b>3.6</b>	<b>3.6</b>
Albany .....	57.6	56.2	56.6	3.8	4.1	4.2	6.6	7.4	7.5
Athens .....	74.1	72.0	71.5	2.3	1.6	1.6	3.0	2.3	2.3
Atlanta .....	2,097.9	2,101.5	2,101.5	67.4	59.7	60.0	3.2	2.8	2.9
Augusta-Aiken .....	204.2	201.2	201.6	11.8	8.8	9.0	5.8	4.4	4.5
Columbus .....	124.4	123.7	124.9	5.4	5.1	6.1	4.4	4.1	4.9
Macon .....	152.0	149.5	150.2	7.0	6.7	6.4	4.6	4.5	4.3
Savannah .....	133.2	132.0	132.3	5.4	5.7	5.0	4.1	4.3	3.8
<b>Hawaii</b> .....	<b>593.2</b>	<b>602.2</b>	<b>600.5</b>	<b>36.6</b>	<b>32.4</b>	<b>36.2</b>	<b>6.2</b>	<b>5.4</b>	<b>6.0</b>
Honolulu .....	427.0	434.0	430.8	22.5	20.2	22.9	5.3	4.6	5.3
<b>Idaho</b> .....	<b>634.4</b>	<b>662.0</b>	<b>655.4</b>	<b>42.4</b>	<b>34.2</b>	<b>38.8</b>	<b>6.7</b>	<b>5.2</b>	<b>5.9</b>
Boise City .....	218.6	229.3	226.5	10.7	8.3	9.2	4.9	3.6	4.0
Pocatello .....	39.9	41.7	41.2	2.5	2.0	2.2	6.2	4.8	5.2
<b>Illinois</b> .....	<b>6,151.0</b>	<b>6,254.9</b>	<b>6,216.7</b>	<b>335.7</b>	<b>257.6</b>	<b>294.3</b>	<b>5.5</b>	<b>4.1</b>	<b>4.7</b>
Bloomington-Normal .....	84.2	86.9	86.1	2.9	1.6	2.3	3.4	1.9	2.7
Champaign-Urbana .....	88.8	94.6	91.0	3.1	2.3	2.8	3.5	2.4	3.0
Chicago .....	4,101.3	4,203.8	4,166.6	208.9	166.5	179.4	5.1	4.0	4.3
Davenport-Moline-Rock Island .....	183.6	185.6	185.8	7.9	6.5	10.4	4.3	3.5	5.6
Decatur .....	57.2	57.2	56.4	4.0	2.6	2.9	6.9	4.5	5.1
Kankakee .....	52.3	52.4	52.3	3.6	2.9	3.5	6.9	5.5	6.8
Peoria-Pekin .....	182.1	183.6	184.6	9.2	6.0	8.1	5.1	3.3	4.4
Rockford .....	194.3	194.1	194.4	10.5	9.1	9.8	5.4	4.7	5.1
Springfield .....	105.8	106.6	105.9	5.5	3.8	4.6	5.2	3.5	4.3
<b>Indiana</b> .....	<b>3,027.8</b>	<b>3,111.5</b>	<b>3,066.2</b>	<b>115.1</b>	<b>90.7</b>	<b>106.8</b>	<b>3.8</b>	<b>2.9</b>	<b>3.5</b>
Bloomington .....	60.9	62.1	60.7	1.7	1.4	1.9	2.7	2.2	3.1
Elkhart-Goshen .....	92.3	95.7	94.7	3.1	2.1	2.3	3.3	2.2	2.4
Evansville-Henderson .....	153.4	159.3	156.0	6.6	5.0	5.6	4.3	3.1	3.6
Fort Wayne .....	260.6	267.2	261.6	8.3	7.3	8.5	3.2	2.7	3.2
Gary .....	297.1	308.3	300.7	13.6	11.9	12.7	4.6	3.9	4.2
Indianapolis .....	816.7	842.2	836.0	23.8	20.1	22.5	2.9	2.4	2.7
Kokomo .....	49.8	51.5	50.6	1.8	1.2	1.5	3.5	2.4	3.0
Lafayette .....	87.9	91.5	88.6	2.5	1.9	2.3	2.9	2.1	2.6
Muncie .....	61.7	63.0	61.3	2.8	2.3	2.6	4.5	3.6	4.2
South Bend .....	134.0	138.0	134.9	4.8	3.7	4.3	3.5	2.7	3.2
Terre Haute .....	69.9	70.2	69.6	4.5	2.9	3.8	6.4	4.1	5.5
<b>Iowa</b> .....	<b>1,553.9</b>	<b>1,574.9</b>	<b>1,574.5</b>	<b>57.9</b>	<b>41.9</b>	<b>57.8</b>	<b>3.7</b>	<b>2.7</b>	<b>3.7</b>
Cedar Rapids .....	108.5	112.5	112.1	2.8	1.8	2.8	2.6	1.6	2.5
Des Moines .....	249.9	256.2	258.5	6.9	4.7	6.2	2.8	1.8	2.4
Dubuque .....	48.6	48.8	48.9	2.2	1.4	2.0	4.6	2.9	4.2
Iowa City .....	65.0	65.6	65.7	1.6	1.3	1.5	2.4	1.9	2.3
Sioux City .....	64.5	65.6	65.9	2.3	1.7	2.1	3.6	2.6	3.2
Waterloo-Cedar Falls .....	68.8	70.5	70.6	2.8	3.4	5.4	4.1	4.8	7.6

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					
	Jan. 1998	Dec. 1998	Jan. 1999P	Number			Percent of labor force		
				Jan. 1998	Dec. 1998	Jan. 1999P	Jan. 1998	Dec. 1998	Jan. 1999P
<b>Kansas</b> .....	1,376.6	1,432.9	1,431.5	60.6	46.2	57.0	4.4	3.2	4.0
Lawrence .....	52.7	57.0	55.3	2.5	1.8	2.3	4.7	3.2	4.2
Topeka .....	89.4	91.9	91.7	4.9	3.3	4.1	5.5	3.6	4.5
Wichita .....	281.9	291.6	293.6	9.8	8.9	10.7	3.5	3.1	3.6
<b>Kentucky</b> .....	1,889.1	1,935.3	1,909.2	105.2	73.8	91.8	5.6	3.8	4.8
Lexington .....	245.9	257.1	249.6	6.1	4.4	5.4	2.5	1.7	2.2
Louisville .....	535.8	556.1	546.2	20.4	14.0	16.8	3.8	2.5	3.1
Owensboro .....	48.3	50.0	49.2	2.4	1.9	2.4	5.1	3.8	4.9
<b>Louisiana</b> .....	2,019.0	2,038.9	2,039.2	133.7	100.6	122.6	6.6	4.9	6.0
Alexandria .....	58.6	59.2	59.4	4.0	2.7	3.3	6.9	4.5	5.5
Baton Rouge .....	287.4	298.7	296.5	15.5	11.2	13.5	5.4	3.8	4.5
Houma .....	92.4	94.9	95.2	3.3	3.4	4.7	3.6	3.6	4.9
Lafayette .....	176.7	179.3	180.0	12.0	8.5	11.1	6.8	4.7	6.2
Lake Charles .....	91.4	90.2	90.8	6.2	4.5	5.3	6.7	5.0	5.8
Monroe .....	69.8	69.6	70.1	4.7	3.1	3.6	6.8	4.4	5.2
New Orleans .....	609.5	611.5	613.0	32.5	24.3	28.7	5.3	4.0	4.7
Shreveport-Bossier City .....	183.7	184.7	185.9	13.2	8.8	10.8	7.2	4.8	5.8
<b>Maine</b> .....	637.2	656.6	648.6	41.8	23.7	30.6	6.6	3.6	4.7
Bangor .....	48.4	51.6	50.3	2.4	1.3	1.6	5.0	2.5	3.2
Lewiston-Auburn .....	51.7	53.7	53.2	3.6	1.8	2.3	6.9	3.4	4.3
Portland .....	130.7	137.0	138.3	4.3	2.2	2.9	3.3	1.6	2.1
<b>Maryland</b> .....	2,717.7	2,788.2	2,775.2	148.3	97.2	113.6	5.5	3.5	4.1
Baltimore .....	1,287.3	1,310.1	1,308.2	77.7	50.5	58.2	6.0	3.9	4.4
Cumberland .....	44.7	45.8	46.4	4.3	3.4	4.8	9.6	7.5	10.4
Hagerstown .....	68.8	70.5	70.1	4.1	2.2	3.4	5.9	3.2	4.9
<b>Massachusetts</b> .....	3,255.4	3,255.9	3,240.9	141.2	88.7	123.9	4.3	2.7	3.8
Barnstable-Yarmouth .....	67.7	70.2	68.8	5.4	3.2	4.5	8.0	4.6	6.6
Boston .....	1,811.4	1,811.7	1,803.0	62.0	40.2	53.8	3.4	2.2	3.0
Brockton .....	129.6	132.4	131.2	6.2	3.7	5.3	4.8	2.8	4.0
Fitchburg-Leominster .....	68.8	68.7	68.8	3.4	2.4	3.3	5.0	3.5	4.7
Lawrence .....	197.4	197.4	197.1	10.0	8.3	9.8	5.1	4.2	5.0
Lowell .....	163.9	167.7	166.2	6.6	4.6	6.3	4.0	2.8	3.8
New Bedford .....	83.0	81.0	83.1	7.7	4.2	6.6	9.3	5.2	7.9
Pittsfield .....	39.9	39.5	39.6	2.4	1.5	2.0	6.0	3.7	5.1
Springfield .....	282.6	281.4	279.2	14.5	8.6	12.7	5.1	3.1	4.5
Worcester .....	253.2	253.2	251.0	9.9	6.6	9.3	3.9	2.6	3.7
<b>Michigan</b> .....	4,948.4	5,043.7	5,000.7	234.7	173.6	227.4	4.7	3.4	4.5
Ann Arbor .....	292.0	300.0	295.4	7.8	5.5	8.7	2.7	1.8	3.0
Benton Harbor .....	81.2	82.2	81.1	4.4	3.3	3.9	5.5	4.0	4.9
Detroit .....	2,224.0	2,267.7	2,252.4	92.6	67.3	89.8	4.2	3.0	4.0
Flint .....	199.4	199.8	198.5	11.1	8.9	11.4	5.6	4.4	5.7
Grand Rapids-Muskegon-Holland .....	582.0	601.3	594.9	21.0	16.2	21.8	3.6	2.7	3.7
Jackson .....	74.8	76.6	75.7	3.6	2.5	3.3	4.8	3.3	4.3
Kalamazoo-Battle Creek .....	228.4	230.6	229.0	9.4	7.5	9.2	4.1	3.2	4.0
Lansing-East Lansing .....	245.4	243.3	235.7	11.2	6.1	7.4	4.6	2.5	3.1
Saginaw-Bay City-Midland .....	197.1	200.4	198.9	10.4	7.8	10.3	5.3	3.9	5.2
<b>Minnesota</b> .....	2,611.2	2,695.8	2,676.7	92.5	59.2	84.4	3.5	2.2	3.2
Duluth-Superior .....	122.2	124.8	124.0	6.3	4.2	5.7	5.2	3.4	4.6
Minneapolis-St. Paul .....	1,630.5	1,693.7	1,676.7	40.7	27.3	37.2	2.5	1.6	2.2
Rochester .....	68.2	70.3	70.5	1.5	0.9	1.4	2.2	1.2	2.0
St. Cloud .....	92.6	94.0	93.5	4.6	2.3	3.8	5.0	2.5	4.0
<b>Mississippi</b> .....	1,251.7	1,289.0	1,281.0	76.8	55.6	73.8	6.1	4.3	5.8
Biloxi-Gulfport-Pascagoula .....	163.7	170.8	168.7	6.6	4.9	6.2	4.1	2.9	3.7
Hattiesburg .....	50.2	51.8	50.5	1.6	1.2	1.7	3.3	2.4	3.3
Jackson .....	219.0	228.0	224.4	7.9	6.3	8.0	3.6	2.7	3.6
<b>Missouri</b> .....	2,821.7	2,898.3	2,855.2	149.0	90.6	93.4	5.3	3.1	3.3
Columbia .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Joplin .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Kansas City .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
St. Joseph .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
St. Louis LMA .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Springfield .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Montana</b> .....	455.5	466.7	469.0	31.4	27.3	29.7	6.9	5.9	6.3
Billings .....	68.4	69.6	70.4	3.7	2.8	3.0	5.4	4.1	4.3
Great Falls .....	38.1	39.0	38.1	2.5	2.2	2.4	6.6	5.6	6.4
Missoula .....	51.5	52.8	52.1	2.8	2.2	2.5	5.4	4.2	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					
	Jan. 1998	Dec. 1998	Jan. 1999P	Number			Percent of labor force		
				Jan. 1998	Dec. 1998	Jan. 1999P	Jan. 1998	Dec. 1998	Jan. 1999P
<b>Nebraska</b> .....	893.1	930.5	923.7	29.7	19.9	27.9	3.3	2.1	3.0
Lincoln .....	139.0	146.9	145.3	3.8	2.3	3.4	2.7	1.6	2.3
Omaha .....	380.4	398.6	393.5	12.6	7.9	10.7	3.3	2.0	2.7
<b>Nevada</b> .....	892.9	928.7	927.4	46.2	26.4	35.0	5.2	2.8	3.8
Las Vegas .....	675.7	711.6	710.7	32.4	19.8	25.4	4.8	2.8	3.6
Reno .....	170.5	175.0	174.2	8.5	4.6	6.8	5.0	2.6	3.9
<b>New Hampshire</b> .....	642.4	664.5	663.1	22.6	17.6	21.0	3.5	2.6	3.2
Manchester .....	102.7	106.3	106.4	3.1	2.4	2.9	3.1	2.2	2.8
Nashua .....	101.7	104.9	104.5	3.2	2.7	3.3	3.1	2.6	3.2
Portsmouth-Rochester .....	120.2	126.2	124.2	3.6	2.8	3.5	3.0	2.3	2.8
<b>New Jersey</b> .....	4,121.5	4,194.1	4,170.8	219.8	173.5	205.2	5.3	4.1	4.9
Atlantic-Cape May .....	168.2	169.0	168.6	18.8	15.3	18.1	11.2	9.0	10.7
Bergen-Passaic .....	670.9	684.0	679.9	33.6	26.8	32.0	5.0	3.9	4.7
Jersey City .....	281.3	285.5	283.3	22.3	19.0	21.0	7.9	6.7	7.4
Middlesex-Somerset-Hunterdon .....	627.7	642.7	631.8	22.8	17.3	20.6	3.6	2.7	3.3
Monmouth-Ocean .....	503.4	512.0	508.7	26.6	20.3	24.7	5.3	4.0	4.8
Newark .....	1,002.8	1,022.6	1,025.4	50.3	40.8	47.3	5.0	4.0	4.6
Trenton .....	167.2	169.1	167.1	7.9	6.3	7.4	4.7	3.7	4.4
Vineyard-Millville-Bridgeton .....	65.2	64.9	66.1	6.8	5.4	6.5	10.5	8.4	9.8
<b>New Mexico</b> .....	816.2	837.3	832.2	51.7	50.2	56.2	6.3	6.0	6.8
Albuquerque .....	356.2	366.1	363.8	14.6	16.1	17.1	4.1	4.4	4.7
Las Cruces .....	67.2	68.9	68.0	6.3	5.5	6.2	9.4	8.0	9.1
Santa Fe .....	72.3	74.8	73.8	2.7	2.3	2.4	3.7	3.1	3.2
<b>New York</b> .....	8,818.1	8,855.5	8,795.5	590.9	454.3	517.4	6.7	5.1	5.9
Albany-Schenectady-Troy .....	449.2	451.5	447.2	21.8	13.9	17.7	4.9	3.1	4.0
Binghamton .....	123.8	125.7	125.5	6.4	4.5	6.0	5.2	3.6	4.8
Buffalo-Niagara Falls .....	574.5	573.4	572.1	36.1	25.9	34.3	6.3	4.5	6.0
Dutchess County .....	118.0	118.3	118.8	5.0	3.3	4.4	4.2	2.8	3.7
Elmira .....	44.5	45.3	44.8	2.1	1.7	2.0	4.7	3.7	4.5
Glens Falls .....	58.6	57.8	58.0	5.0	3.3	3.9	8.6	5.8	6.6
Jamestown .....	68.1	66.6	67.6	4.6	3.4	4.3	6.7	5.1	6.4
Nassau-Suffolk .....	1,376.5	1,414.7	1,389.9	54.0	35.6	43.4	3.9	2.5	3.1
New York .....	4,082.1	4,082.7	4,053.5	334.5	279.1	296.1	8.2	6.8	7.3
New York City .....	3,444.3	3,432.4	3,411.1	310.1	262.2	275.6	9.0	7.6	8.1
Newburgh .....	171.3	171.1	171.0	7.4	4.7	6.3	4.3	2.8	3.7
Rochester .....	572.6	571.5	569.9	27.0	20.5	25.3	4.7	3.6	4.4
Syracuse .....	360.7	363.7	361.5	19.3	13.2	16.8	5.4	3.6	4.7
Utica-Rome .....	142.7	140.9	141.6	8.9	5.8	7.5	6.2	4.1	5.3
<b>North Carolina</b> .....	3,737.5	3,813.9	3,797.7	156.0	104.6	134.1	4.2	2.7	3.5
Asheville .....	107.8	111.4	111.6	3.7	2.1	3.2	3.5	1.9	2.9
Charlotte-Gastonia-Rock Hill .....	730.8	748.3	744.9	21.7	14.9	18.4	3.0	2.0	2.5
Fayetteville .....	112.8	113.4	113.8	5.2	3.7	4.8	4.6	3.3	4.2
Goldsboro .....	47.6	46.6	46.7	2.3	1.6	2.0	4.9	3.5	4.4
Greensboro—Winston-Salem—High Point .....	622.2	635.6	635.5	20.1	11.7	15.3	3.2	1.8	2.4
Greenville .....	63.4	63.5	63.1	2.8	2.0	2.5	4.4	3.1	4.0
Hickory-Morganton-Lenoir .....	170.7	170.5	170.8	6.1	3.2	4.2	3.6	1.9	2.4
Jacksonville .....	45.0	45.2	45.1	2.1	1.3	1.7	4.6	2.9	3.8
Raleigh-Durham-Chapel Hill .....	601.4	639.0	633.3	12.2	8.0	10.2	2.0	1.3	1.6
Rocky Mount .....	67.2	65.5	65.3	5.2	3.3	4.6	7.8	5.1	7.1
Wilmington .....	104.5	104.8	104.6	6.0	3.6	4.6	5.7	3.5	4.4
<b>North Dakota</b> .....	336.5	338.1	334.5	12.3	9.1	10.6	3.7	2.7	3.2
Bismarck .....	52.6	53.2	52.8	2.0	1.3	1.6	3.8	2.4	3.0
Fargo-Moorhead .....	100.8	103.0	101.8	2.2	1.6	2.1	2.2	1.5	2.1
Grand Forks .....	52.8	53.1	52.3	1.7	1.2	1.5	3.2	2.2	3.0
<b>Ohio</b> .....	5,553.8	5,789.1	5,707.5	277.5	222.7	276.8	5.0	3.8	4.9
Akron .....	352.8	366.8	362.2	17.5	13.4	17.1	4.9	3.6	4.7
Canton-Massillon .....	197.1	205.8	202.7	10.3	7.7	10.6	5.2	3.7	5.2
Cincinnati .....	815.4	857.1	843.9	33.0	24.5	31.1	4.0	2.9	3.7
Cleveland-Lorain-Elyria .....	1,081.4	1,127.1	1,114.2	54.5	45.5	54.6	5.0	4.0	4.9
Columbus .....	792.5	830.3	814.6	24.2	19.3	23.9	3.1	2.3	2.9
Dayton-Springfield .....	464.4	477.7	469.0	19.0	15.3	18.9	4.1	3.2	4.0
Hamilton-Middletown .....	174.0	183.2	179.4	6.8	5.4	6.8	3.9	2.9	3.8
Lima .....	72.7	74.9	74.5	3.8	3.4	4.3	5.2	4.5	5.8
Mansfield .....	81.6	83.6	82.5	5.2	4.1	4.9	6.3	4.9	6.0
Steubenville-Weirton .....	56.6	57.7	57.1	4.6	3.8	5.1	8.1	6.6	8.9
Toledo .....	309.6	326.1	318.2	16.2	13.6	16.2	5.2	4.2	5.1
Youngstown-Warren .....	277.6	288.4	283.9	18.7	15.8	18.2	6.7	5.5	6.4

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					
	Jan. 1998	Dec. 1998	Jan. 1999P	Number			Percent of labor force		
				Jan. 1998	Dec. 1998	Jan. 1999P	Jan. 1998	Dec. 1998	Jan. 1999P
<b>Oklahoma</b> .....	1,589.1	1,636.7	1,625.7	75.4	68.8	74.0	4.7	4.2	4.6
Enid .....	27.6	27.4	27.6	1.1	1.0	1.1	3.9	3.6	3.9
Lawton .....	40.5	41.2	40.8	2.2	1.9	2.1	5.5	4.7	5.1
Oklahoma City .....	519.5	538.0	533.8	20.2	17.7	19.2	3.9	3.3	3.6
Tulsa .....	400.7	420.4	418.1	15.5	13.5	14.8	3.9	3.2	3.5
<b>Oregon</b> .....	1,737.0	1,767.6	1,749.1	112.8	94.4	116.8	6.5	5.3	6.7
Eugene-Springfield .....	160.6	164.6	163.0	10.5	8.8	10.3	6.5	5.3	6.3
Medford-Ashland .....	87.7	91.5	88.2	7.2	6.0	7.4	8.2	6.6	8.3
Portland-Vancouver .....	1,036.8	1,058.7	1,051.4	44.8	41.7	52.2	4.3	3.9	5.0
Salem .....	162.2	165.3	164.2	11.8	9.9	11.9	7.3	6.0	7.3
<b>Pennsylvania</b> .....	5,878.0	5,931.5	5,866.2	320.1	226.9	288.9	5.4	3.8	4.9
Allentown-Bethlehem-Easton .....	307.9	311.0	310.4	15.6	11.5	14.7	5.1	3.7	4.7
Altoona .....	61.6	62.3	62.4	3.7	2.5	3.2	5.9	4.0	5.1
Erie .....	138.7	138.4	137.8	8.5	5.9	7.5	6.1	4.2	5.5
Harrisburg-Lebanon-Carlisle .....	344.1	350.0	346.7	11.9	8.6	11.3	3.4	2.5	3.3
Johnstown .....	103.0	101.8	102.0	8.8	5.5	7.2	8.5	5.4	7.1
Lancaster .....	234.2	241.8	237.5	7.9	5.4	7.1	3.4	2.2	3.0
Philadelphia .....	2,470.9	2,501.7	2,463.0	116.4	85.5	101.4	4.7	3.4	4.1
Pittsburgh .....	1,141.8	1,154.0	1,143.1	63.2	44.8	59.3	5.5	3.9	5.2
Reading .....	180.8	182.6	180.8	8.0	6.4	8.0	4.4	3.5	4.4
Scranton-Wilkes-Barre-Hazleton .....	308.2	309.0	305.3	24.6	16.1	21.3	8.0	5.2	7.0
Sharon .....	55.8	56.6	55.4	2.9	1.9	2.6	5.3	3.3	4.7
State College .....	63.7	66.6	63.8	2.2	1.8	2.1	3.5	2.7	3.3
Williamsport .....	57.8	56.2	56.4	4.6	2.7	3.5	7.9	4.8	6.2
York .....	190.2	190.7	189.1	7.5	5.4	7.1	4.0	2.8	3.8
<b>Rhode Island</b> .....	496.7	502.7	495.6	30.8	18.2	26.1	6.2	3.6	5.3
Providence-Fall River-Warwick .....	574.3	577.8	572.4	36.4	21.1	31.0	6.3	3.7	5.4
<b>South Carolina</b> .....	1,908.6	1,934.8	1,932.6	81.0	65.9	79.1	4.2	3.4	4.1
Charleston-North Charleston .....	255.1	263.9	261.6	8.3	6.2	7.6	3.3	2.4	2.9
Columbia .....	271.6	277.5	275.5	6.0	4.7	5.4	2.2	1.7	2.0
Florence .....	62.8	63.3	63.5	3.0	2.4	2.9	4.8	3.8	4.6
Greenville-Spartanburg-Anderson .....	484.6	489.1	486.2	12.0	12.0	14.7	2.5	2.5	3.0
Myrtle Beach .....	95.6	99.8	100.4	7.6	4.8	6.6	7.9	4.8	6.5
Sumter .....	46.9	46.6	46.9	2.2	1.8	2.1	4.8	3.8	4.5
<b>South Dakota</b> .....	384.1	392.3	389.3	15.4	10.5	13.2	4.0	2.7	3.4
Rapid City .....	45.6	46.5	46.5	1.8	1.1	1.4	4.0	2.3	3.0
Sioux Falls .....	97.1	100.4	100.0	2.4	1.5	2.0	2.5	1.4	2.0
<b>Tennessee</b> .....	2,668.3	2,790.6	2,767.5	137.2	97.3	133.5	5.1	3.5	4.8
Chattanooga .....	216.5	218.3	216.6	10.5	6.6	8.3	4.8	3.0	3.8
Clarksville-Hopkinsville .....	78.6	82.6	81.3	3.5	2.4	2.9	4.4	2.9	3.6
Jackson .....	54.8	57.2	56.1	2.0	1.8	2.3	3.7	3.1	4.0
Johnson City-Kingsport-Bristol .....	218.9	227.3	226.0	11.7	10.3	11.4	5.3	4.5	5.0
Knoxville .....	331.3	345.6	341.3	16.5	10.8	16.2	5.0	3.1	4.7
Memphis .....	524.8	568.4	560.3	23.1	16.2	20.2	4.4	2.8	3.6
Nashville .....	618.7	654.2	644.7	18.7	14.0	18.4	3.0	2.1	2.9
<b>Texas</b> .....	9,889.8	10,237.4	10,197.3	529.1	447.9	523.5	5.4	4.4	5.1
Abilene .....	60.5	62.5	62.3	2.2	2.0	2.5	3.7	3.1	4.0
Amarillo .....	110.9	114.1	113.0	4.4	3.2	3.7	4.0	2.8	3.3
Austin-San Marcos .....	658.7	692.6	690.3	19.8	15.9	18.6	3.0	2.3	2.7
Beaumont-Port Arthur .....	180.8	185.8	186.4	14.5	12.5	14.1	8.0	6.7	7.6
Brazoria .....	104.6	105.7	105.5	7.1	5.7	6.9	6.7	5.4	6.6
Brownsville-Harlingen-San Benito .....	127.1	128.3	129.9	17.5	16.2	18.0	13.8	12.6	13.8
Bryan-College Station .....	70.6	77.0	74.4	1.4	1.2	1.3	1.9	1.5	1.8
Corpus Christi .....	174.0	177.2	177.3	12.1	10.8	12.0	7.0	6.1	6.8
Dallas .....	1,817.1	1,894.7	1,888.6	65.4	52.0	60.9	3.6	2.7	3.2
El Paso .....	286.4	291.3	288.1	30.5	27.7	30.8	10.6	9.5	10.7
Fort Worth-Arlington .....	853.3	892.1	886.1	30.6	24.5	29.6	3.6	2.7	3.3
Galveston-Texas City .....	122.5	124.2	124.2	9.3	7.3	8.3	7.6	5.9	6.7
Houston .....	2,067.7	2,155.8	2,142.7	94.6	78.4	94.1	4.6	3.6	4.4
Killeen-Temple .....	113.3	115.4	114.7	5.6	4.0	4.5	4.9	3.4	3.9
Laredo .....	72.4	74.4	75.4	7.3	6.5	7.6	10.1	8.7	10.1
Longview-Marshall .....	103.9	106.9	106.3	7.8	7.3	8.3	7.5	6.9	7.8
Lubbock .....	121.4	124.7	123.9	4.5	2.8	3.6	3.7	2.2	2.9
McAllen-Edinburg-Mission .....	201.4	199.1	204.5	43.0	35.7	40.2	21.4	17.9	19.6
Odessa-Midland .....	125.0	129.1	130.5	5.6	8.4	11.8	4.5	6.5	9.0
San Angelo .....	51.1	53.3	52.9	1.7	2.4	2.7	3.3	4.5	5.1
San Antonio .....	741.0	766.3	760.2	29.5	22.6	25.3	4.0	2.9	3.3
Sherman-Denison .....	49.9	51.4	51.3	2.3	2.4	2.9	4.5	4.7	5.6
Texarkana .....	56.0	56.7	56.4	4.7	3.4	3.7	8.4	6.0	6.5
Tyler .....	88.7	91.1	91.3	5.4	3.8	4.3	6.1	4.2	4.7
Victoria .....	43.1	43.4	43.1	2.0	1.7	1.9	4.7	4.0	4.5

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

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					
	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Number			Percent of labor force		
				Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>	Jan. 1998	Dec. 1998	Jan. 1999 <sup>P</sup>
<b>Texas (Continued.)</b>									
Waco .....	99.7	101.6	100.9	4.9	3.3	3.8	4.9	3.2	3.7
Wichita Falls .....	65.4	66.8	66.7	3.3	3.2	3.8	5.0	4.7	5.7
<b>Utah</b> .....	1,037.7	1,090.0	1,083.6	39.1	29.9	36.4	3.8	2.7	3.4
Provo-Orem .....	154.2	163.5	162.7	4.7	3.9	4.7	3.0	2.4	2.9
Salt Lake City-Ogden .....	665.6	699.8	697.3	23.7	17.7	21.2	3.6	2.5	3.0
<b>Vermont</b> .....	323.9	338.3	331.6	15.3	9.6	13.3	4.7	2.8	4.0
Burlington .....	95.7	102.1	104.1	3.0	1.9	2.6	3.1	1.9	2.5
<b>Virginia</b> .....	3,381.2	3,554.5	3,540.4	118.0	96.6	103.2	3.5	2.7	2.9
Charlottesville .....	69.9	76.4	75.7	1.1	0.9	1.1	1.6	1.2	1.5
Danville .....	56.0	57.4	57.8	3.0	3.0	3.0	5.4	5.3	5.2
Lynchburg .....	99.4	104.5	105.0	3.1	2.3	2.9	3.1	2.2	2.8
Norfolk-Virginia Beach-Newport News .....	712.1	746.2	749.1	28.5	23.4	25.2	4.0	3.1	3.4
Richmond-Petersburg .....	496.0	516.8	522.9	14.2	11.9	12.5	2.9	2.3	2.4
Roanoke .....	126.0	132.7	134.3	3.3	2.7	2.7	2.6	2.0	2.0
<b>Washington</b> .....	3,013.7	3,080.8	3,075.0	162.5	153.3	168.3	5.4	5.0	5.5
Bellingham .....	78.2	80.8	80.9	5.3	4.6	5.2	6.7	5.7	6.5
Bremerton .....	92.3	92.0	92.9	5.2	4.6	4.9	5.6	5.0	5.3
Olympia .....	100.4	101.1	101.2	5.6	4.7	5.2	5.6	4.7	5.2
Richland-Kennewick-Pasco .....	90.2	91.2	90.7	8.4	8.0	8.1	9.4	8.8	9.0
Seattle-Bellevue-Everett .....	1,380.0	1,414.1	1,406.9	44.0	43.0	47.5	3.2	3.0	3.4
Spokane .....	208.4	214.5	213.0	11.3	11.4	13.8	5.4	5.3	6.5
Tacoma .....	332.6	341.2	345.6	15.9	14.4	16.0	4.8	4.2	4.6
Yakima .....	107.5	108.4	107.9	15.8	14.1	15.5	14.7	13.1	14.3
<b>West Virginia</b> .....	786.8	804.6	803.1	61.3	48.6	61.0	7.8	6.0	7.6
Charleston .....	128.4	131.4	130.8	7.1	5.9	6.8	5.5	4.5	5.2
Huntington-Ashland .....	135.5	138.4	138.2	10.3	8.0	10.2	7.6	5.8	7.4
Parkersburg-Marietta .....	75.1	78.3	77.1	5.1	4.1	5.4	6.8	5.3	7.0
Wheeling .....	71.7	73.4	73.6	4.9	3.2	4.7	6.9	4.4	6.4
<b>Wisconsin</b> .....	2,887.2	2,968.0	2,950.3	112.6	92.9	120.8	3.9	3.1	4.1
Appleton-Oshkosh-Neenah .....	218.0	223.6	223.3	7.0	5.1	6.9	3.2	2.3	3.1
Eau Claire .....	79.6	84.3	83.0	3.6	2.8	3.6	4.5	3.3	4.3
Green Bay .....	130.1	132.3	131.8	4.2	3.0	4.1	3.2	2.3	3.1
Janesville-Beloit .....	78.8	79.5	79.4	2.9	2.8	3.4	3.7	3.6	4.3
Kenosha .....	79.7	83.2	82.7	2.6	2.5	3.3	3.3	3.0	4.0
La Crosse .....	70.8	72.8	72.0	2.5	1.9	2.7	3.6	2.6	3.7
Madison .....	257.2	266.3	264.4	4.8	3.5	4.6	1.9	1.3	1.8
Milwaukee-Waukesha .....	794.4	814.6	810.7	25.1	24.0	28.7	3.2	2.9	3.5
Racine .....	92.2	93.7	93.7	3.9	3.3	5.5	4.3	3.5	5.8
Sheboygan .....	60.0	60.5	60.8	1.5	1.2	1.5	2.6	1.9	2.5
Wausau .....	72.7	74.7	74.8	3.6	2.4	3.0	5.0	3.1	4.0
<b>Wyoming</b> .....	248.8	256.9	254.7	15.3	11.7	14.9	6.2	4.6	5.9
Casper .....	32.7	33.4	33.2	2.2	1.7	2.0	6.6	5.0	5.9
Cheyenne .....	38.7	39.7	39.2	1.9	1.4	1.7	5.0	3.6	4.2
<b>Puerto Rico</b> .....	1,301.2	1,326.4	1,328.3	188.5	146.8	170.2	14.5	11.1	12.8
Aguadilla .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Arecibo .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Caguas .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Mayaguez .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Ponce .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
San Juan-Bayamon .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

<sup>1</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Data refer to place of residence. Data for Puerto Rico are derived from a monthly household survey similar to the Current Population Survey. Data for all states, the District

of Columbia, the Los Angeles-Long Beach metropolitan area, and New York City have been revised to incorporate updated population controls, reestimation of models, and benchmarking to CPS annual averages. Data for the remaining metropolitan areas have been revised to reflect updated inputs and the new statewide estimates.

# 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 .....	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966 .....	357	33,500	1,500	6,000
Jan. 1967 to July 1971 .....	449	48,000	2,000	8,500
Aug. 1971 to July 1972 .....	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977 .....	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979 .....	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981 .....	629	62,200	2,800	12,000
May 1981 to Dec. 1984 .....	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988 .....	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989 .....	729	53,200	2,600	11,500
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
Total, 16 years and over:		
Civilian labor force .....	293	216
Employed .....	312	235
Unemployed .....	145	161
Men, 20 years and over:		
Civilian labor force .....	194	164
Employed .....	206	174
Unemployed .....	97	113
Women, 20 years and over:		
Civilian labor force .....	219	165
Employed .....	224	171
Unemployed .....	91	105
Both sexes, 16 to 19 years:		
Civilian labor force .....	97	95
Employed .....	96	95
Unemployed .....	62	81
Black, 16 years and over:		
Civilian labor force .....	138	101
Employed .....	140	105
Unemployed .....	66	76
Men, 20 years and over:		
Civilian labor force .....	78	69
Employed .....	71	72
Unemployed .....	43	50
Women, 20 years and over:		
Civilian labor force .....	98	73
Employed .....	97	74
Unemployed .....	44	51
Both sexes, 16 to 19 years:		
Civilian labor force .....	40	42
Employed .....	35	37
Unemployed .....	32	37
Hispanic origin, 16 years and over:		
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 .....	-0.000024885	2582.39
Black .....	-0.000134884	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
Labor force and not-in-labor-force data other than agricultural employment and unemployment:		
Total or white:		
Most characteristics .....	-0.000012482	2001.12
High correlation characteristics <sup>1</sup> .....	-0.00009288	1564.84
Low correlation characteristics <sup>1</sup> .....	-0.00016162	2550.56
Men:		
Most characteristics .....	-0.00022599	1921.13
High correlation characteristics .....	-0.00016814	1500.99
Low correlation characteristics .....	-0.00058387	2668.56
Women:		
Most characteristics .....	-0.00021229	1689.99
Low correlation characteristics .....	-0.00059785	2690.59
Both sexes, 16 to 19 years .....	-0.00186555	2616.54
Black:		
Most characteristics .....	-0.00098960	2147.36
Low correlation characteristics .....	-0.01928030	6513.82
Men:		
Most characteristics .....	-0.00234427	2280.03
Low correlation characteristics .....	-0.02881467	5829.60
Women:		
Most characteristics .....	-0.00156363	1860.78
Low correlation characteristics .....	-0.02311407	5420.13
Both sexes, 16 to 19 years .....	-0.01288452	3131.77
Hispanic origin:		
Total .....	-0.00157201	2774.53
Civilian labor force and not in labor force .....	-0.00102898	1930.51
Low correlation characteristics .....	-0.02624078	8620.43
Men, civilian labor force and not in labor force .....	-0.00248038	2347.42
Men, 16 years and over; 20 years and over; and both sexes, 16 to 19 years .....	-0.00398909	3615.62
Women, 16 years and over and 20 years and over .....	-0.00338741	2569.69
Agricultural employment:		
Total or white:		
Total .....	-0.000395757	3838.04
Men .....	-0.000672985	3959.25
Women or both sexes, 16 to 19 years .....	.000130289	2367.00
Black:		
Total or women .....	-0.00122355	2861.72
Men or both sexes, 16 to 19 years .....	-0.019110769	5876.77
Hispanic origin:		
Total or women .....	.002872129	4640.81
Men or both sexes, 16 to 19 years .....	.002884390	4028.10
Self-employed .....	-0.00245791	2091.57
Unemployment: <sup>2</sup>		
Total or white:		
Total, men, women .....	-0.00093662	4191.84
Both sexes, 16 to 19 years and low correlation characteristics .....	-0.00071624	5121.75
Black:		
Total, men, women, and both sexes, 16 to 19 years .....	-0.000414217	4361.16
High correlation characteristics .....	.000048170	3088.91
Hispanic origin:		
Total, men, women .....	-0.00252897	5054.25
Both sexes, 16 to 19 years and low correlation characteristics .....	-0.000996431	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.

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

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

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.

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

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
<b>Agricultural employment:</b>					
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
<b>Unemployment:</b>					
Total .....	1.40	.74	.88	.46	.65
Part time .....	1.40	.67	.88	.42	.54
<b>Labor force and not-in-labor-force data other than agricultural employment and unemployment:</b>					
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	-.7	-1.1	1.4
Commercial banks .....	-24	-1.7	-.6	.9
Savings institutions <sup>3</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	(?)	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	(?)	.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	(?)	.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.

## 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 19-23 12-13, 15-16
At work .....	A-7	A-23-27	D-5		
Class of worker .....	A-7	A-22	D-5	D-14-15	
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 7
Educational attainment .....	A-5	A-16, 17	D-3		
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

**U.S. DEPARTMENT OF LABOR  
Bureau of Labor Statistics**

Regional Office	Cooperating State Agencies	
	Current Employment Statistics (CES) and State and Local Area Unemployment Statistics (LAUS) Programs	
	BLS Region	BLS Region
REGION I—BOSTON JFK Federal Building Rm. F310 Boston, MA 02203 Phone (617) 565-2327	IV ALABAMA Department of Industrial Relations, Room 427, Industrial Relations Bldg., Montgomery 36130	VIII MONTANA Department of Labor and Industry, P.O. Box 1728, Helena 59624
REGION II—NEW YORK Room 808 201 Varick Street New York, NY 10014 Phone: (212) 337-2400	X ALASKA Department of Labor, Research and Analysis Section, 1111 West 8th St., Juneau 99802-5501	VII NEBRASKA Department of Labor, P.O. Box 94600, Lincoln 68509-4600
REGION III—PHILADELPHIA 3535 Market Street P.O. Box 13309 Philadelphia, PA 19101 Phone: (215) 596-1154	IX ARIZONA Department of Economic Security, 1300 West Washington St., Phoenix 85005	IX NEVADA Employment Security Department, 500 East 3rd St., Carson City 89713
REGION IV—ATLANTA Room 7T50 61 Forsyth Street, SW. Atlanta, GA 30303 Phone: (404) 562-2463	VI ARKANSAS Employment Security Department, P.O. Box 2981, Little Rock 72203-2981	I NEW HAMPSHIRE Department of Employment Security, 32 South Main St., Concord 03301
REGION V—CHICAGO 9th Floor 230 South Dearborn Street Chicago, IL 60604 Phone: (312) 353-1880	IX CALIFORNIA Employment Development Department, Employ- ment Data and Research Division, 7000 Franklin Blvd., Bldg. 1100, Sacramento 95823	II NEW JERSEY Department of Labor, Division of Planning and Research, P.O. Box 2765, Trenton 08625
REGION VI—DALLAS Room 221 Federal Building 525 Griffin Street Dallas, TX 75202 Phone (214) 767-6970	VIII COLORADO Department of Labor and Employment, Suite 801, 1120 Lincoln Street, Denver 80203	VI NEW MEXICO Employment Security Commission, 401 Broad- way, TIWA Bldg., Albuquerque 87103
REGIONS VII and VIII— KANSAS CITY City Center Square 1100 Main, Suite 600 Kansas City, MO 64105-2112 Phone: (816) 426-2481	I CONNECTICUT Labor Department, Employment Security Division, 200 Folly Brook Blvd., Wethersfield 06109	II NEW YORK Department of Labor, Division of Research and Statistics, State Campus, Room 400, Bldg. 12, Albany 12240-0020
REGIONS IX and X— SAN FRANCISCO 71 Stevenson Street P.O. Box 193766 San Francisco, CA 94119 Phone (415) 975-4384	III DELAWARE Department of Labor, Office of Occupational and Labor Market Information, P.O. Box 9029, Newark 19714-9029	IV NORTH CAROLINA Employment Security Commission, Labor Market Information Division, P.O. Box 25903, Raleigh 27611
	III DIST. OF COL. Department of Employment Services, Division of Labor Market Information and Analysis, Room 201, 500 C St., NW., Washington, DC 20001	VIII NORTH DAKOTA Job Service, P.O. Box 1537, Bismarck 58502
	IV FLORIDA Florida Department of Labor and Employment Security, Bureau of Labor Market Information, Suite 203, 2574 Seagate Dr., Tallahassee 32399-0674	V OHIO Bureau of Employment Services, Labor Market Information Division, 1160 Dublin Rd., Columbus 43215
	IV GEORGIA Department of Labor, Labor Information Systems, 148 International Blvd., NE., Atlanta 30303	VI OKLAHOMA Employment Security Commission, Research and Planning Division, 2401 North Lincoln, Oklahoma City 73105
	IX HAWAII Department of Labor and Industrial Relations, Research and Statistics Office, Room 304, 830 Punchbowl St., Honolulu 96813	X OREGON Employment Division, 875 Union St., NE., Salem 97311
	X IDAHO Department of Employment, 317 Main St., Boise 83735	III PENNSYLVANIA Bureau of Research and Statistics 300 Capitol Associates Building Harrisburg, PA 17120-0034
	V ILLINOIS Department of Employment Security, (2 South), 401 South State St., Chicago 60605	II PUERTO RICO Department of Labor and Human Resources, Bureau of Labor Statistics, 17th Fl., 505 Munoz Rivera Avenue, Hato Rey 00918 (CES), Bureau of Employment Security, Research and Analysis Section, 15th Fl., 505 Munoz Rivera Avenue, Hato Rey 00918 (LAUS)
	V INDIANA Department of Employment and Training Services, Statistical Services Division, 10 North Senate Avenue, Indianapolis 46204	I RHODE ISLAND Department of Employment Security, 24 Mason St., Providence 02903
	VII IOWA Department of Employment Services, 1000 East Grand Avenue, Des Moines 50319	IV SOUTH CAROLINA Employment Security Commission, Labor Market Information Division, P.O. Box 995, Columbia 29202
	VII KANSAS Department of Human Resources, 401 Topeka Avenue, Topeka 66603	VIII SOUTH DAKOTA Department of Labor, Labor Market Information Center, P.O. Box 4730, Aberdeen 57401
	IV KENTUCKY Department for Employment Services, Labor Market Research and Analysis Branch, 275 East Main St., Frankfort 40621	IV TENNESSEE Department of Employment Security, Research and Statistics Division, 519 Cordell Hull Office Bldg., Nashville 37219
	VI LOUISIANA Department of Labor, Research and Statistics Section, 1001 North 23rd St., Baton Rouge 70804-9094	VI TEXAS Employment Commission, Room 208-T, 1117 Trinity St., Austin 78778
	I MAINE Department of Labor, Division of Economic Analysis and Research, 20 Union St., Augusta 04330	VIII UTAH Department of Employment Security, Labor Market Information Services, P.O. Box 11249, Salt Lake City 84147
	III MARYLAND Department of Employment and Training, Research and Analysis Division, 1100 North Eutaw St., Baltimore 21201	I VERMONT Department of Employment and Training, Office of Policy and Public Information, P.O. Box 488, Montpelier 05602
	I MASSACHUSETTS Department of Employment and Training, Government Center, Charles F. Hurley Bldg., Boston 02114	III VIRGINIA Employment Commission, Economic Information Services, P.O. Box 1358, Richmond 23211
	V MICHIGAN Employment Security Commission, Research and Statistics Division, Room 516, 7310 Woodward Avenue, Detroit 48202	II VIRGIN ISLANDS Department of Labor, Bureau of Labor Statistics, 53-A, 54-A&B Kronprindsens Gade Charlotte Amalie, St. Thomas 00801-3359 (CES)
	V MINNESOTA Department of Jobs and Training, Research and Statistics Division, 5th Fl., 390 North Robert St., St. Paul 55101	X WASHINGTON Employment Security Department, Labor Market and Economic Analysis Branch, 605 Woodview Dr., Olympia 98503
	IV MISSISSIPPI Employment Security Commission, Labor Market Information Division, P.O. Box 1699, Jackson 39215-1699	III WEST VIRGINIA Department of Employment Security, Division of Labor and Economic Security, 112 California Avenue, Charleston 25305
	VII MISSOURI Division of Employment Security, P.O. Box 59, Jefferson City 65104	V WISCONSIN Department of Industry, Labor, and Human Relations, Labor Market Information Bureau, 201 East Washington Avenue, Madison 53707
		VIII WYOMING Employment Security Commission, Research and Analysis Section, P.O. Box 2760, Casper 82602