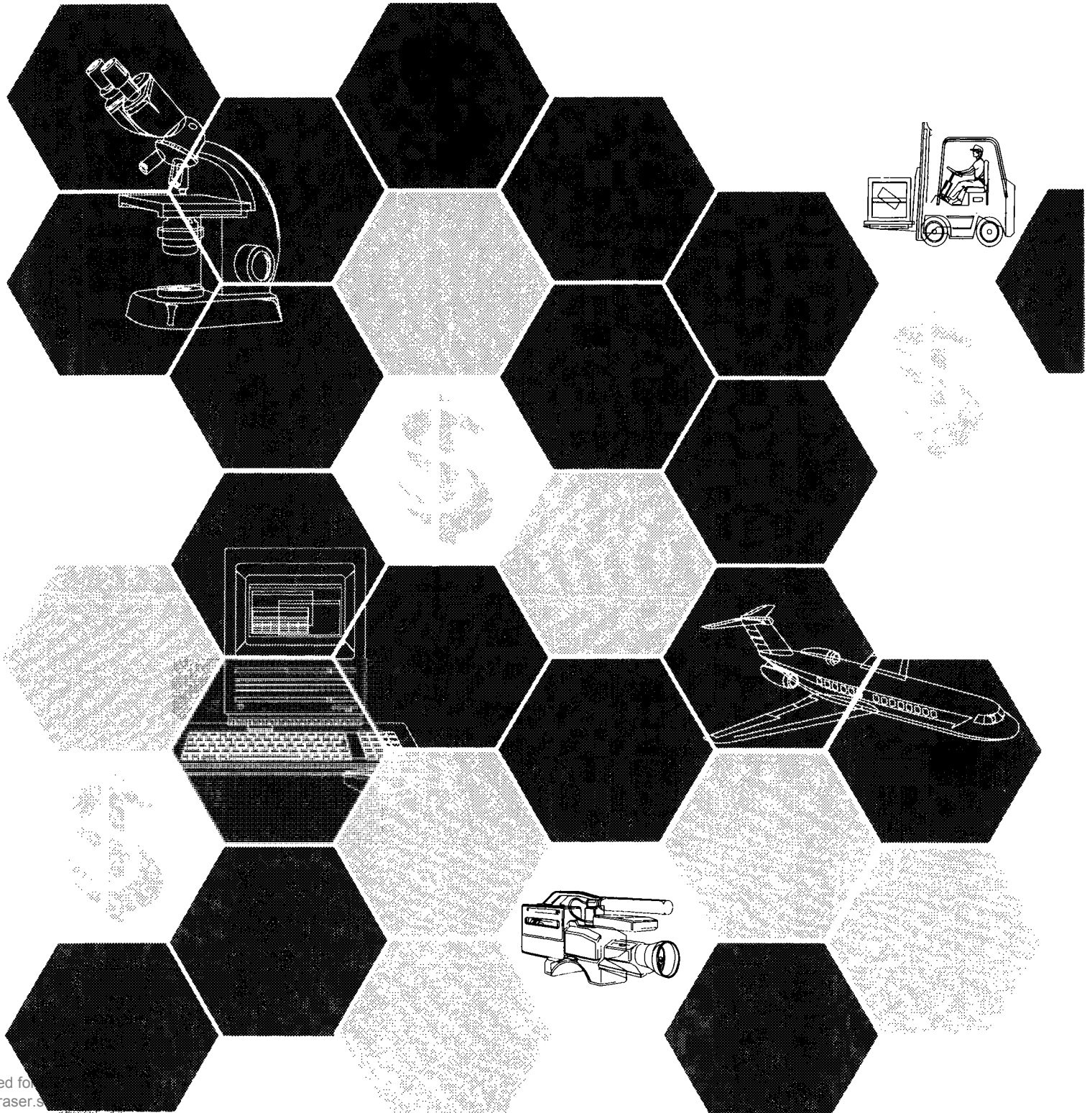




EMPLOYMENT AND EARNINGS

U.S. Department of Labor
Bureau of Labor Statistics
April 1998

In this issue: First quarter 1998 averages
for household survey data





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Calendar of Features

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

Household data

Annual averages	Jan
Union affiliation	Jan
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

Employment and Earnings

Editors: Gloria Peterson Green, Eugene H. Becker

Contents

	<i>Page</i>
List of statistical tables	ii
Contents to the explanatory notes and estimates of error	v
Employment and unemployment developments, March 1998	1
Summary tables and charts	3
Explanatory notes and estimates of error	161
Index to statistical tables	198

Statistical tables

Source	Historical	Seasonally adjusted	Not seasonally adjusted
Household data	5	7	18
Establishment data:			
Employment:			
National	44	48	65
State		53	78
Area			78
Hours and earnings:			
National	45	61	96
State and area			119
Local area labor force data:			
Region		123	
State		125	130
Area			130
Household data:			
Quarterly averages		136	147

Monthly Household Data

Page

Historical

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1964 to date	5
A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1986 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. Employed 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	44
B-2. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry, 1964 to date	45

Seasonally Adjusted Data

Employment

National

B-3. Employees on nonfarm payrolls by major industry and selected component groups	48
B-4. Women employees on nonfarm payrolls by major industry and manufacturing group	50
B-5. Production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group	51
B-6. Diffusion indexes of employment change	52

States

B-7. Employees on nonfarm payrolls by State and major industry	53
--	----

Hours and Earnings

National

B-8. Average weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group	61
B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group	62
B-10. Hours of wage and salary workers on nonfarm payrolls by major industry	63
B-11. Average hourly and weekly earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry	64

Not Seasonally Adjusted Data

Employment

National

B-12. Employees on nonfarm payrolls by detailed industry	65
B-13. Women employees on nonfarm payrolls by major industry and manufacturing group	77

States and Areas

B-14. Employees on nonfarm payrolls in States and selected areas by major industry	78
--	----

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
--	-----

Quarterly Household Data

Page

Seasonally Adjusted Data

Employment Status

D-1	Employment status of the civilian noninstitutional population by sex and age	136
D-2	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin	137
D-3	Employment status of the civilian noninstitutional population 25 years and over by educational attainment	139
D-4	Employed and unemployed full- and part-time workers by sex and age	140

Characteristics of the Employed

D-5	Employed persons by marital status, occupation, class of worker, and part-time status	141
D-6	Employed persons by age and sex	142

Characteristics of the Unemployed

D-7	Unemployed persons by age and sex	143
D-8	Unemployment rates by age and sex	144
D-9	Unemployment rates by occupation, industry, and selected demographic characteristics	145
D-10	Unemployed persons by reason for unemployment	146
D-11	Unemployed persons by duration of unemployment	146

Not Seasonally Adjusted Data

Employment Status

D-12	Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin	147
D-13	Employment status of the Mexican, Puerto Rican, and Cuban-origin population by sex and age	148

Characteristics of the Employed

D-14	Employed white, black, and Hispanic-origin workers by sex, occupation, class of worker, and full- or part-time status	149
D-15	Employed Mexican, Puerto Rican, and Cuban-origin workers by sex, occupation, class of worker, and full- or part-time status	150
D-16	Employed persons by age, sex, race, and Hispanic origin	151

Characteristics of the Unemployed

D-17	Unemployment rates by age, sex, race, and Hispanic origin	152
D-18	Unemployed persons by reason for unemployment, race, and Hispanic origin	153
D-19	Unemployed persons by duration of unemployment, race, and Hispanic origin	154

Weekly Earnings Data

D-20	Median weekly earnings of full-time wage and salary workers by selected characteristics	155
D-21	Median weekly earnings of part-time wage and salary workers by selected characteristics	156
D-22	Median weekly earnings of full-time wage and salary workers by occupation and sex	157

Vietnam-era Veterans and Nonveterans Data

D-23	Employment status of male Vietnam-era veterans and nonveterans by age	158
D-24	Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin	159

Explanatory Notes and Estimates of Error

	<i>Page</i>		<i>Page</i>
Introduction	161	Establishment data—Continued	
Relation between the household and establishment series	161	Estimating methods	184
Comparability of household data with other series	162	Benchmarks	184
Comparability of payroll employment data with		Monthly estimation	184
other series	162	Stratification	184
		Link relative technique	184
		Bias adjustment	184
		Summary of methods table	185
Household data	163	The sample	186
Collection and coverage	163	Design	186
Concepts and definitions	163	Coverage	187
Historical comparability	165	Reliability	187
Changes in concepts and methods	165	Measures of error tables	187
Noncomparability of labor force levels	167	Benchmark revision as a measure of survey error	187
Changes in the occupational and industrial		Estimated standard errors for employment, hours,	
classification systems	169	and earnings	188
Sampling	169	Standard errors for differences between industries	
Selection of sample areas	170	and times	188
Selection of sample households	170	Noneconomic code changes	188
Rotation of sample	171	Revisions between preliminary and final data	191
CPS sample, 1947 to present	171	Statistics for States and areas	191
Estimating methods	172		
Noninterview adjustment	172	Region, State, and area labor force data	194
Ratio estimates	172	Federal-State cooperative program	194
First stage	172	Estimating methods	194
Second stage	172	Estimates for States	194
Composite estimation procedure	172	Current monthly estimates	194
Rounding of estimates	173	Benchmark correction procedures	194
Reliability of the estimates	173	Estimates for sub-State areas	195
Nonsampling error	173	Preliminary estimate:	
Sampling error (Revised effective Jan. 1996)	173	Employment	195
Tables 1-B through 1-H	174	Unemployment	195
		Sub-State adjustment for additivity	195
Establishment data	181	Benchmark correction	195
Collection	181		
Concepts	181	Seasonal adjustment	196

Employment and Unemployment Developments, March 1998

Both nonfarm payroll employment and the unemployment rate were about unchanged in March. Following 5 months of strong growth, the number of payroll jobs edged down by 36,000, reflecting declines in construction and retail trade and an unusually small gain in services. The unemployment rate was 4.7 percent in March.

Unemployment

The number of unemployed persons, 6.5 million, was little changed from the prior month. The jobless rate, 4.7 percent in March, has been at or below 5 percent for the last 12 months. Unemployment rates for the major worker groups—adult men (3.9 percent), adult women (4.3 percent), teenagers (15.0 percent), whites (4.1 percent), blacks (9.2 percent), and Hispanics (6.9 percent)—showed little or no movement over the month. (See tables A-3 and A-4.)

The unemployment rates for persons 25 years and over changed little in each of the major educational attainment categories. The rate was 7.2 percent for those with less than a high school diploma, 4.2 percent for high school graduates with no college experience, 3.3 percent for high school graduates with some college experience but no bachelor's degree, and 1.9 percent for college graduates. (See table A-5.)

The number of persons unemployed for less than 5 weeks rose to 2.9 million in March (seasonally adjusted); it had been 2.5 million in January. Long-term unemployment of 27 weeks or longer—891,000 in March—was at its lowest level of the current expansion. This measure had peaked at 2.2 million in October 1992. (See table A-13.)

Total employment and the labor force

Total employment, at 131.0 million (seasonally adjusted), was essentially unchanged over the month. Over the year, total civilian employment has risen by about 2.1 million, after adjusting for changes in the composite estimation procedure. The employment-population ratio—the proportion of the population with jobs—was 64.0 percent, near its all-time high. (See table A-3.)

About 8.0 million persons (not seasonally adjusted) held more than one job in March. They comprised 6.1 percent of the total employed. (See table A-37.)

The civilian labor force, at 137.5 million (seasonally adjusted), was virtually unchanged over the month. The labor force participation rate was 67.2 percent. (See table A-3.)

Persons not in the labor force

About 1.4 million persons (not seasonally adjusted) were marginally attached to the labor force in March. 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—totaled 343,000 in March, little changed from a year earlier. (See table A-36.)

Industry payroll employment

Nonfarm payroll employment edged down in March after adding 1.7 million jobs during the prior 5 months. Employment in March was 3.1 million higher than a year earlier. Over the month, there were declines in construction and retail trade. These were mostly offset by a relatively small gain in services and continued growth in finance, insurance, and real estate and in transportation and public utilities. (See table B-3.)

In the goods-producing sector, construction employment fell by 88,000 over the month, after seasonal adjustment. This followed 4 months of large gains, which were partly due to an exceptionally mild winter during which seasonal employment declines were much smaller than normal. As a result, there was less need to add workers in March. Also, the weather during the March survey reference period was much colder than usual, further slowing seasonal hiring.

Manufacturing employment was essentially unchanged for the second straight month, after growing by 169,000 between September and January. Job growth has slowed in several industries that had accounted for much of the increase—fabricated metals, industrial machinery, electronic components, and aircraft.

In the service-producing sector, employment in the services industry rose by only 45,000 over the month, the smallest gain since August 1997. The weakness in March was due in part to an employment decline in the help supply industry (-16,000), following a sizable gain in February. Motion picture employment declined by 8,000 in March. Health services added only 7,000 jobs, compared with a monthly average of 18,000 over the prior year. In contrast,

strong growth continued in March in computer services (17,000), engineering and management services (16,000), and social services (11,000).

Retail trade employment fell by 48,000 in March, as seasonal hiring was below normal in eating and drinking places. Employment in apparel stores declined for the second month in a row. Employment in wholesale trade and its component industries was about unchanged in March. Government employment was little changed over the month at 19.8 million, seasonally adjusted. After 5 years of substantial declines, employment losses in Federal Government, except the Postal Service, have slowed, totaling only 7,000 since September.

Transportation and public utilities continued to grow, adding 22,000 jobs in March and 86,000 since December. Spurring the March increase were widespread gains in transportation and continued strong growth in telephone communications. The number of jobs in finance, insurance, and real estate rose by 31,000 over the month, reflecting strong housing and stock markets and low mortgage rates.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls decreased by 0.2 hour to 34.7 hours, seasonally adjusted. The manufacturing workweek fell by 0.3 hour to 41.7 hours, bringing the decline since December to half an hour. Factory overtime decreased for the second straight month by 0.1 hour to 4.7 hours. (See table B-8.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls declined by 0.7 percent to 143.5 (1982=100), seasonally adjusted. The manufacturing index decreased by 0.6 percent to 108.9. (See table B-9.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls were up 4 cents in March to \$12.63, seasonally adjusted. Reflecting the decline in the workweek, average weekly earnings edged down 0.3 percent to \$438.26. Since March 1997, average hourly and weekly earnings have risen by 4.0 and 3.7 percent, respectively.

Revisions in the Establishment Survey Data

With the release of May data in June, BLS will introduce revisions in the establishment-based series on nonfarm payroll employment, hours, and earnings to reflect the regular annual benchmark adjustments and updated seasonal adjustment factors. This year's benchmark process affects all unadjusted series from April 1996 forward.

BLS also will implement refinements to the seasonal adjustment process for the hours and earnings series to correct for distortions related to the method of accounting for the varying length of payroll periods across months.

All seasonally adjusted employment series will be revised from January 1993 forward. The hours and earnings series will be revised from January 1989 forward to incorporate the new methodology. Seasonal adjustment factors for March through October 1998 will be available on May 29, 1 week prior to the release of the May estimates, on the Internet (<http://stats.bls.gov/ceshome.htm>). Further information on these revisions is available by calling (202) 606-6555.

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
Reference month	Release date	Reference month	Release date
April	May 8	July	August 7
May	June 5	August	September 4
June	July 2	September	October 2

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

(Numbers in thousands)

Category	1997											1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Labor force status														
Civilian noninstitutional population	202,513	202,674	202,832	203,000	203,166	203,364	203,570	203,767	203,941	204,098	204,238	204,400	204,547	
Civilian labor force	136,115	136,043	136,060	136,206	136,294	136,404	136,439	136,406	136,864	137,169	137,493	137,557	137,523	
Percent of population	67.2	67.1	67.1	67.1	67.1	67.1	67.0	66.9	67.1	67.2	67.3	67.3	67.2	
Employed	129,035	129,275	129,494	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994	
Percent of population	63.7	63.8	63.8	63.7	63.8	63.8	63.7	63.8	64.0	64.1	64.2	64.2	64.0	
Unemployed	7,080	6,768	6,566	6,814	6,633	6,657	6,678	6,496	6,289	6,392	6,409	6,393	6,529	
Not in labor force	66,398	66,631	66,772	66,794	66,872	66,960	67,131	67,361	67,077	66,929	66,745	66,844	67,024	
Unemployment rates														
All workers	5.2	5.0	4.8	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7	
Men, 20 years and over	4.4	4.2	3.9	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.8	3.8	3.9	
Women, 20 years and over	4.7	4.4	4.5	4.4	4.3	4.3	4.3	4.1	4.0	4.0	4.4	4.3	4.3	
Both sexes, 16 to 19 years	16.5	15.6	15.7	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0	
White	4.4	4.2	4.1	4.3	4.2	4.2	4.2	4.1	3.9	3.9	4.0	3.9	4.1	
Black	10.5	9.9	10.3	10.3	9.6	9.5	9.6	9.6	9.7	9.9	9.3	9.7	9.2	
Hispanic origin	8.3	8.0	7.6	7.7	7.9	7.3	7.6	7.8	6.9	7.5	6.9	6.8	6.9	

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	1997											1998		
	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	Mar. ^P	
Employment														
Total	121,344	121,671	121,834	122,056	122,440	122,492	122,792	123,083	123,512	123,866	124,265	124,517	124,481	
Total private	101,799	102,092	102,269	102,417	102,721	102,688	103,078	103,334	103,749	104,096	104,484	104,705	104,674	
Goods-producing industries	24,670	24,667	24,702	24,714	24,713	24,765	24,771	24,814	24,888	24,995	25,139	25,172	25,086	
Mining	572	573	576	574	574	573	576	574	572	574	574	572	571	
Construction	5,609	5,599	5,628	5,622	5,625	5,637	5,642	5,650	5,682	5,747	5,843	5,877	5,789	
Manufacturing	18,489	18,495	18,498	18,518	18,514	18,555	18,553	18,590	18,634	18,674	18,722	18,723	18,726	
Service-producing industries	96,674	97,004	97,132	97,342	97,727	97,727	98,021	98,269	98,624	98,871	99,126	99,345	99,395	
Transportation and public utilities	6,405	6,421	6,431	6,434	6,443	6,289	6,473	6,497	6,495	6,478	6,516	6,542	6,564	
Wholesale trade	6,611	6,622	6,630	6,634	6,664	6,675	6,687	6,712	6,729	6,746	6,780	6,793	6,798	
Retail trade	21,945	22,029	22,026	22,079	22,159	22,189	22,215	22,258	22,403	22,450	22,462	22,476	22,428	
Finance, insurance, and real estate	6,992	7,019	7,029	7,034	7,058	7,068	7,082	7,108	7,132	7,151	7,170	7,190	7,221	
Services	35,176	35,334	35,451	35,522	35,684	35,702	35,850	35,945	36,102	36,276	36,417	36,532	36,577	
Government	19,545	19,579	19,565	19,639	19,719	19,804	19,714	19,749	19,763	19,770	19,761	19,812	19,807	
Over-the-month change														
Total	182	327	163	222	384	52	300	291	429	354	399	252	-36	
Total private	184	293	177	148	304	-33	390	256	415	347	388	221	-31	
Goods-producing industries	17	-3	35	12	-1	52	6	43	74	107	144	33	-86	
Mining	-2	1	3	-2	0	-1	3	-2	2	0	0	-2	-1	
Construction	5	-10	29	-6	3	12	5	8	32	65	96	34	-88	
Manufacturing	14	6	3	20	-4	41	-2	37	44	40	48	1	3	
Service-producing industries	165	330	128	210	385	0	294	248	355	247	255	219	50	
Transportation and public utilities	29	16	10	3	9	-154	184	24	-2	-17	38	26	22	
Wholesale trade	18	11	8	4	30	11	12	25	17	17	34	13	5	
Retail trade	23	84	-3	53	80	30	26	43	145	47	12	14	-48	
Finance, insurance, and real estate	12	27	10	5	24	10	14	26	24	19	19	20	31	
Services	85	159	117	71	162	18	148	95	157	174	141	115	45	
Government	-2	34	-14	74	80	85	-90	35	14	7	11	31	-5	
Hours of work ¹														
Total private	34.8	34.5	34.5	34.6	34.4	34.6	34.5	34.5	34.8	34.6	34.8	34.9	34.7	
Manufacturing	42.1	42.1	42.0	41.8	41.8	41.8	41.9	42.0	42.1	42.2	42.1	42.0	41.7	
Overtime	4.9	4.9	4.8	4.6	4.7	4.7	4.7	4.8	4.9	4.9	4.9	4.8	4.7	
Indexes of aggregate weekly hours (1982=100) ¹														
Total private	140.2	139.6	140.0	140.6	140.2	140.8	140.9	141.2	142.9	142.5	143.6	144.5	143.5	
Manufacturing	108.3	108.5	108.3	107.8	107.8	108.1	108.3	108.7	109.4	109.9	110.0	109.6	108.9	
Earnings ¹														
Average hourly earnings, total private:														
Current dollars	\$12.14	\$12.14	\$12.19	\$12.23	\$12.24	\$12.31	\$12.35	\$12.40	\$12.48	\$12.48	\$12.52	\$12.59	\$12.63	
Constant (1982) dollars ²	7.50	7.49	7.52	7.54	7.53	7.56	7.56	7.58	7.62	7.62	7.64	7.69	N.A.	
Average weekly earnings, total private	422.47	418.83	420.56	423.16	421.06	425.93	426.08	427.80	434.30	431.81	435.70	439.39	438.26	

¹ Data relate to private production or nonsupervisory workers.

N.A. = not available.

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

^P = preliminary.

Chart 1. Nonfarm payroll employment, seasonally adjusted, 1994-98

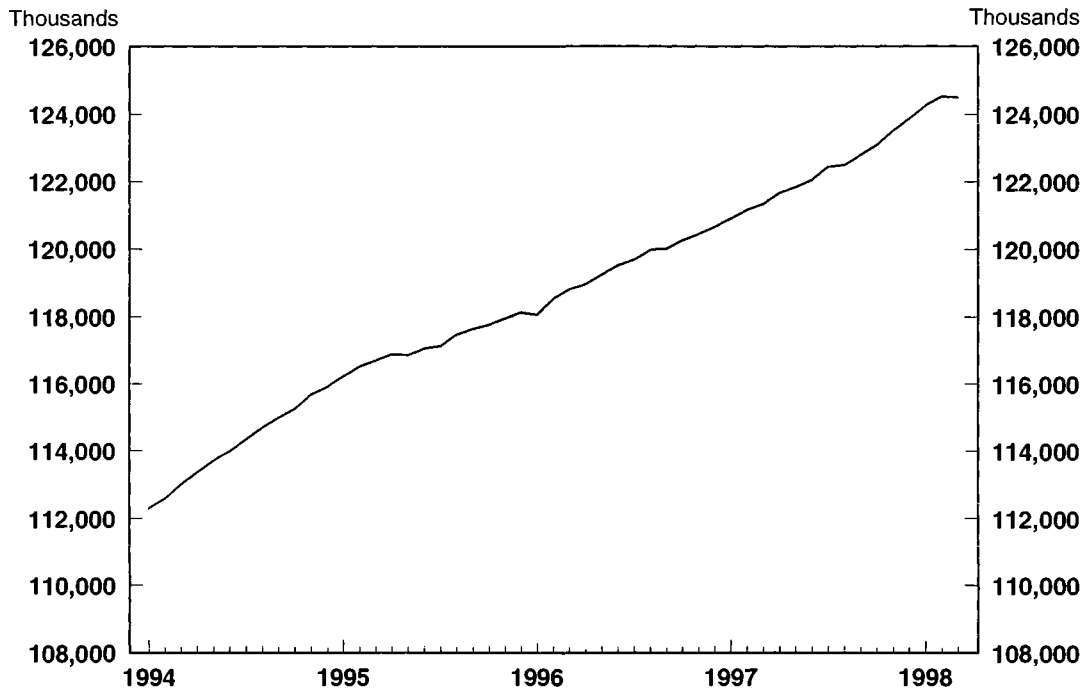
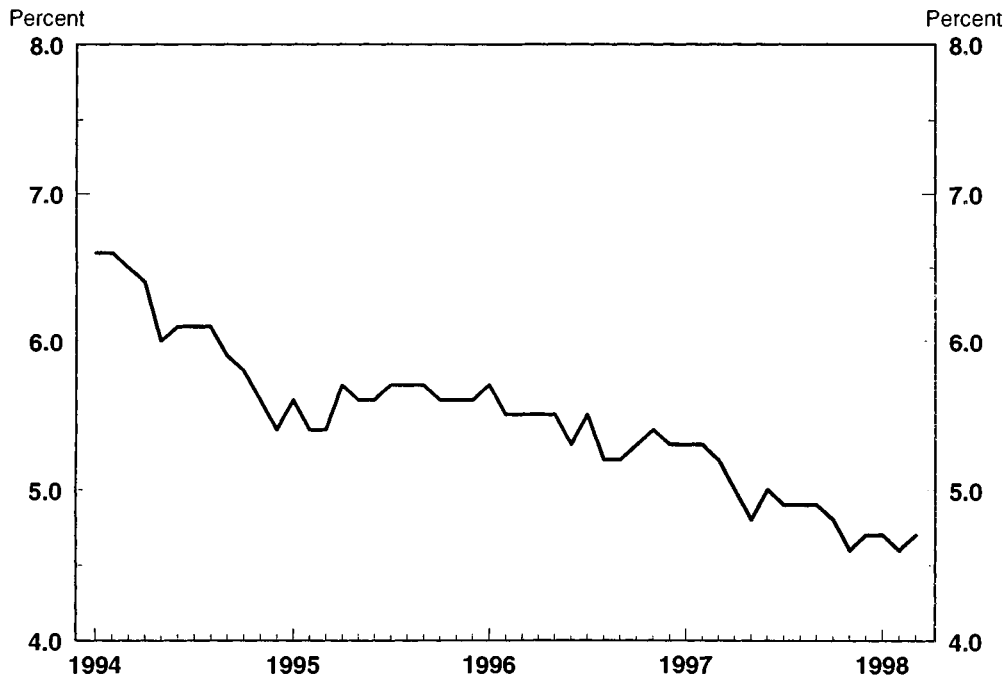


Chart 2. Unemployment rate, seasonally adjusted, 1994-98



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. These changes affect comparability with data for prior periods.

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1964 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										
1964	124,485	73,091	58.7	69,305	55.7	4,523	64,782	3,786	5.2	51,394
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 ¹	144,126	87,034	60.4	82,153	57.0	3,484	78,669	4,882	5.6	57,091
1973 ¹	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 ¹	161,910	102,251	63.2	96,048	59.3	3,387	92,661	6,202	6.1	59,659
1979	164,863	104,962	63.7	98,824	59.9	3,347	95,477	6,137	5.8	59,900
1980	167,745	106,940	63.8	99,303	59.2	3,364	95,938	7,637	7.1	60,806
1981	170,130	108,670	63.9	100,397	59.0	3,368	97,030	8,273	7.6	61,460
1982	172,271	110,204	64.0	99,526	57.8	3,401	96,125	10,678	9.7	62,067
1983	174,215	111,550	64.0	100,834	57.9	3,383	97,450	10,717	9.6	62,665
1984	176,383	113,544	64.4	105,005	59.5	3,321	101,685	8,539	7.5	62,839
1985	178,206	115,461	64.8	107,150	60.1	3,179	103,971	8,312	7.2	62,744
1986 ¹	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 ¹	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 ¹	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 ¹	203,133	136,297	67.1	129,558	63.8	3,399	126,159	6,739	4.9	66,837
Monthly data, seasonally adjusted ²										
1997:										
March	202,513	136,115	67.2	129,035	63.7	3,387	125,648	7,080	5.2	66,398
April	202,674	136,043	67.1	129,275	63.8	3,462	125,813	6,768	5.0	66,631
May	202,832	136,060	67.1	129,494	63.8	3,418	126,076	6,566	4.8	66,772
June	203,000	136,206	67.1	129,392	63.7	3,389	126,003	6,814	5.0	66,794
July	203,166	136,294	67.1	129,661	63.8	3,452	126,209	6,633	4.9	66,872
August	203,364	136,404	67.1	129,747	63.8	3,379	126,368	6,657	4.9	66,960
September	203,570	136,439	67.0	129,761	63.7	3,422	126,339	6,678	4.9	67,131
October	203,767	136,406	66.9	129,910	63.8	3,327	126,583	6,496	4.8	67,361
November	203,941	136,864	67.1	130,575	64.0	3,384	127,191	6,289	4.6	67,077
December	204,098	137,169	67.2	130,777	64.1	3,385	127,392	6,392	4.7	66,929
1998:										
January ³	204,238	137,493	67.3	131,083	64.2	3,319	127,764	6,409	4.7	66,745
February	204,400	137,557	67.3	131,163	64.2	3,335	127,829	6,393	4.6	66,844
March	204,547	137,523	67.2	130,994	64.0	3,132	127,862	6,529	4.7	67,024

¹ 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.

² The population figures are not adjusted for seasonal variation.

³ Beginning in January 1998, data are not strictly comparable with data

for 1997 and earlier years because of the introduction of new composite estimation procedures and revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1998" in the February 1998 issue of this publication.

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1986 to date

(Numbers in thousands)

Sex, year, and month	Civilian noninsti- tutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Number	Percent of labor force	
				Number	Percent of population	Agriculture	Nonagricultural industries			
Annual averages										
MEN										
1986 ¹	85,798	65,422	76.3	60,892	71.0	2,511	58,381	4,530	6.9	20,376
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 ¹	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 ¹	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 ¹	97,715	73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,454
Monthly data, seasonally adjusted ²										
1997:										
March	97,387	73,164	75.1	69,415	71.3	2,577	66,838	3,749	5.1	24,223
April	97,474	73,184	75.1	69,565	71.4	2,641	66,924	3,619	4.9	24,290
May	97,559	73,089	74.9	69,765	71.5	2,610	67,155	3,324	4.5	24,470
June	97,649	73,225	75.0	69,586	71.3	2,583	67,003	3,639	5.0	24,424
July	97,733	73,218	74.9	69,711	71.3	2,572	67,139	3,507	4.8	24,515
August	97,838	73,265	74.9	69,748	71.3	2,504	67,244	3,517	4.8	24,573
September	97,946	73,192	74.7	69,656	71.1	2,552	67,104	3,536	4.8	24,754
October	98,050	73,311	74.8	69,785	71.2	2,468	67,317	3,526	4.8	24,739
November	98,141	73,682	75.1	70,352	71.7	2,503	67,849	3,330	4.5	24,459
December	98,225	73,662	75.0	70,195	71.5	2,497	67,698	3,467	4.7	24,563
1998:										
January ³	98,241	73,852	75.2	70,518	71.8	2,463	68,056	3,333	4.5	24,389
February	98,331	73,780	75.0	70,459	71.7	2,458	68,001	3,320	4.5	24,551
March	98,405	73,695	74.9	70,297	71.4	2,356	67,941	3,399	4.6	24,710
Annual averages										
WOMEN										
1986 ¹	94,789	52,413	55.3	48,706	51.4	652	48,054	3,707	7.1	42,376
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 ¹	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 ¹	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 ¹	105,418	63,036	59.8	59,873	56.8	847	59,026	3,162	5.0	42,382
Monthly data, seasonally adjusted ²										
1997:										
March	105,127	62,951	59.9	59,620	56.7	810	58,810	3,331	5.3	42,176
April	105,200	62,859	59.8	59,710	56.8	821	58,889	3,149	5.0	42,341
May	105,274	62,971	59.8	59,729	56.7	808	58,921	3,242	5.1	42,303
June	105,351	62,981	59.8	59,806	56.8	806	59,000	3,175	5.0	42,370
July	105,433	63,078	59.8	59,950	56.9	880	59,070	3,126	5.0	42,357
August	105,527	63,139	59.8	59,999	56.9	875	59,124	3,140	5.0	42,388
September	105,623	63,247	59.9	60,105	56.9	870	59,235	3,142	5.0	42,376
October	105,718	63,095	59.7	60,125	56.9	859	59,266	2,970	4.7	42,623
November	105,799	63,182	59.7	60,223	56.9	881	59,342	2,959	4.7	42,617
December	105,873	63,507	60.0	60,582	57.2	888	59,694	2,925	4.6	42,366
1998:										
January ³	105,997	63,641	60.0	60,565	57.1	856	59,709	3,076	4.8	42,356
February	106,070	63,777	60.1	60,704	57.2	876	59,827	3,073	4.8	42,293
March	106,141	63,827	60.1	60,697	57.2	776	59,921	3,130	4.9	42,314

¹ 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.

² The population figures are not adjusted for seasonal variation.

³ Beginning in January 1998, data are not strictly comparable with data for 1997 and

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

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

(Numbers in thousands)

Employment status, sex, and age	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
TOTAL													
Civilian noninstitutional population ¹ ..	202,513	202,674	202,832	203,000	203,166	203,364	203,570	203,767	203,941	204,098	204,238	204,400	204,547
Civilian labor force	136,115	136,043	136,060	136,206	136,294	136,404	136,439	136,406	136,864	137,169	137,493	137,557	137,523
Percent of population	67.2	67.1	67.1	67.1	67.1	67.1	67.1	67.0	66.9	67.1	67.2	67.3	67.3
Employed	129,035	129,275	129,494	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994
Employment-population ratio	63.7	63.8	63.8	63.7	63.8	63.8	63.7	63.8	64.0	64.1	64.2	64.2	64.0
Unemployed	7,080	6,768	6,566	6,814	6,633	6,657	6,678	6,496	6,289	6,392	6,409	6,393	6,529
Unemployment rate	5.2	5.0	4.8	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7
Men, 16 years and over													
Civilian noninstitutional population ¹ ..	97,387	97,474	97,559	97,649	97,733	97,838	97,946	98,050	98,141	98,225	98,241	98,331	98,405
Civilian labor force	73,164	73,184	73,089	73,225	73,218	73,265	73,192	73,311	73,682	73,662	73,852	73,780	73,695
Percent of population	75.1	75.1	74.9	75.0	74.9	74.9	74.7	74.8	75.1	75.0	75.2	75.0	74.9
Employed	69,415	69,565	69,765	69,586	69,711	69,748	69,656	69,785	70,352	70,195	70,518	70,459	70,297
Employment-population ratio	71.3	71.4	71.5	71.3	71.3	71.3	71.1	71.2	71.7	71.5	71.8	71.7	71.4
Agriculture	2,577	2,641	2,610	2,583	2,572	2,504	2,552	2,468	2,503	2,497	2,463	2,458	2,356
Nonagricultural industries	66,838	66,924	67,155	67,003	67,139	67,244	67,104	67,317	67,849	67,698	68,056	68,001	67,941
Unemployed	3,749	3,619	3,324	3,639	3,507	3,517	3,536	3,526	3,330	3,467	3,333	3,320	3,399
Unemployment rate	5.1	4.9	4.5	5.0	4.8	4.8	4.8	4.8	4.5	4.7	4.5	4.5	4.6
Not in labor force	24,223	24,290	24,470	24,424	24,515	24,573	24,754	24,739	24,459	24,563	24,389	24,551	24,710
Men, 20 years and over													
Civilian noninstitutional population ¹ ..	89,604	89,680	89,766	89,829	89,888	89,982	90,068	90,140	90,251	90,339	90,391	90,476	90,502
Civilian labor force	69,040	69,107	68,990	69,157	69,171	69,198	69,136	69,193	69,500	69,561	69,652	69,601	69,451
Percent of population	77.1	77.1	76.9	77.0	77.0	76.9	76.8	76.8	77.0	77.0	77.1	76.9	76.7
Employed	66,031	66,198	66,309	66,258	66,361	66,386	66,298	66,337	66,824	66,676	67,008	66,990	66,753
Employment-population ratio	73.7	73.8	73.9	73.8	73.8	73.8	73.6	73.6	74.0	73.8	74.1	74.0	73.8
Agriculture	2,357	2,411	2,402	2,398	2,390	2,311	2,383	2,298	2,323	2,314	2,282	2,264	2,168
Nonagricultural industries	63,674	63,787	63,907	63,860	63,971	64,075	63,915	64,039	64,501	64,362	64,726	64,726	64,585
Unemployed	3,009	2,909	2,681	2,899	2,810	2,812	2,838	2,856	2,676	2,885	2,644	2,611	2,699
Unemployment rate	4.4	4.2	3.9	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.8	3.8	3.9
Not in labor force	20,564	20,573	20,776	20,672	20,717	20,784	20,932	20,947	20,751	20,778	20,738	20,875	21,051
Women, 16 years and over													
Civilian noninstitutional population ¹ ..	105,127	105,200	105,274	105,351	105,433	105,527	105,623	105,718	105,799	105,873	105,997	106,070	106,141
Civilian labor force	62,951	62,859	62,971	62,981	63,076	63,139	63,247	63,095	63,182	63,507	63,641	63,777	63,827
Percent of population	59.9	59.8	59.8	59.8	59.8	59.8	59.9	59.7	59.7	60.0	60.0	60.1	60.1
Employed	59,620	59,710	59,729	59,806	59,950	59,999	60,105	60,125	60,223	60,582	60,565	60,704	60,697
Employment-population ratio	56.7	56.8	56.7	56.8	56.9	56.9	56.9	56.9	56.9	57.2	57.1	57.2	57.2
Agriculture	810	821	808	806	880	875	870	859	881	888	856	876	776
Nonagricultural industries	58,810	58,889	58,921	59,000	59,070	59,124	59,235	59,266	59,342	59,694	59,709	59,827	59,921
Unemployed	3,331	3,149	3,242	3,175	3,126	3,140	3,142	2,970	2,959	2,925	3,076	3,073	3,130
Unemployment rate	5.3	5.0	5.1	5.0	5.0	5.0	5.0	4.7	4.7	4.6	4.8	4.8	4.9
Not in labor force	42,176	42,341	42,303	42,370	42,357	42,388	42,376	42,623	42,617	42,366	42,356	42,293	42,314
Women, 20 years and over													
Civilian noninstitutional population ¹ ..	97,638	97,685	97,767	97,834	97,919	98,000	98,082	98,144	98,212	98,300	98,420	98,471	98,534
Civilian labor force	59,070	58,975	59,129	59,195	59,232	59,362	59,432	59,338	59,348	59,624	59,652	59,721	59,771
Percent of population	60.5	60.4	60.5	60.5	60.5	60.6	60.6	60.5	60.4	60.7	60.6	60.6	60.7
Employed	56,322	56,357	56,488	56,575	56,693	56,789	56,883	56,919	56,953	57,255	57,040	57,146	57,186
Employment-population ratio	57.7	57.7	57.8	57.8	57.9	57.9	58.0	58.0	58.0	58.2	58.0	58.0	58.0
Agriculture	752	775	760	755	831	824	826	814	833	845	811	801	717
Nonagricultural industries	55,570	55,582	55,728	55,820	55,862	55,965	56,057	56,105	56,120	56,410	56,229	56,345	56,470
Unemployed	2,748	2,618	2,641	2,620	2,539	2,573	2,549	2,419	2,395	2,369	2,612	2,575	2,585
Unemployment rate	4.7	4.4	4.5	4.4	4.3	4.3	4.3	4.1	4.0	4.0	4.4	4.3	4.3
Not in labor force	38,568	38,710	38,638	38,639	38,687	38,638	38,650	38,806	38,864	38,676	38,768	38,750	38,762
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹ ..	15,271	15,309	15,300	15,336	15,359	15,382	15,420	15,483	15,478	15,459	15,427	15,453	15,511
Civilian labor force	8,005	7,961	7,941	7,854	7,891	7,844	7,871	7,875	8,016	7,984	8,189	8,235	8,300
Percent of population	52.4	52.0	51.9	51.2	51.4	51.0	51.0	50.9	51.8	51.6	53.1	53.3	53.5
Employed	6,682	6,720	6,697	6,559	6,607	6,572	6,580	6,654	6,798	6,846	7,035	7,028	7,055
Employment-population ratio	43.8	43.9	43.8	42.8	43.0	42.7	42.7	43.0	43.9	44.3	45.6	45.5	45.5
Agriculture	278	276	256	236	231	244	213	215	228	226	227	270	247
Nonagricultural industries	6,404	6,444	6,441	6,323	6,376	6,328	6,367	6,439	6,570	6,620	6,809	6,758	6,808
Unemployed	1,323	1,241	1,244	1,295	1,284	1,272	1,291	1,221	1,218	1,138	1,154	1,207	1,245
Unemployment rate	16.5	15.6	15.7	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0
Not in labor force	7,266	7,348	7,359	7,482	7,468	7,538	7,549	7,608	7,462	7,475	7,238	7,218	7,210

¹ 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 1998, data reflect new composite estimation procedures and 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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
WHITE													
Civilian noninstitutional population ¹ ..	169,569	169,675	169,782	169,897	170,010	170,148	170,290	170,427	170,545	170,649	170,810	170,917	171,016
Civilian labor force	114,597	114,567	114,562	114,659	114,622	114,669	114,758	114,784	115,073	115,263	115,253	115,392	115,297
Percent of population	67.6	67.5	67.5	67.5	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.4
Employed	109,528	109,721	109,906	109,779	109,851	109,832	109,904	110,063	110,604	110,729	110,698	110,842	110,605
Employment-population ratio	64.6	64.7	64.7	64.6	64.6	64.6	64.5	64.6	64.9	64.9	64.8	64.9	64.7
Unemployed	5,069	4,846	4,656	4,880	4,771	4,837	4,854	4,721	4,469	4,534	4,555	4,550	4,692
Unemployment rate	4.4	4.2	4.1	4.3	4.2	4.2	4.2	4.1	3.9	3.9	4.0	3.9	4.1
Men, 20 years and over													
Civilian labor force	59,083	59,123	59,001	59,086	59,096	59,118	59,110	59,098	59,355	59,389	59,262	59,372	59,201
Percent of population	77.6	77.6	77.4	77.5	77.4	77.4	77.3	77.2	77.5	77.5	77.3	77.4	77.1
Employed	56,867	56,976	57,033	56,967	57,011	57,011	56,989	56,966	57,363	57,272	57,336	57,456	57,209
Employment-population ratio	74.7	74.8	74.8	74.7	74.7	74.6	74.5	74.4	74.9	74.7	74.8	74.9	74.5
Unemployed	2,216	2,147	1,968	2,119	2,085	2,107	2,121	2,132	1,992	2,117	1,926	1,916	1,992
Unemployment rate	3.8	3.6	3.3	3.6	3.5	3.6	3.6	3.6	3.4	3.6	3.3	3.2	3.4
Women, 20 years and over													
Civilian labor force	48,793	48,686	48,845	48,877	48,790	48,910	48,955	48,976	48,906	49,134	49,077	49,057	49,077
Percent of population	60.0	59.8	60.0	60.0	59.9	60.0	60.0	60.0	59.9	60.1	60.0	59.9	59.9
Employed	46,885	46,896	47,022	47,077	47,072	47,122	47,165	47,284	47,265	47,474	47,250	47,279	47,276
Employment-population ratio	57.6	57.6	57.8	57.8	57.8	57.8	57.8	57.9	57.8	58.1	57.7	57.7	57.7
Unemployed	1,908	1,790	1,823	1,800	1,718	1,788	1,790	1,692	1,641	1,660	1,827	1,778	1,801
Unemployment rate	3.9	3.7	3.7	3.7	3.5	3.7	3.7	3.5	3.4	3.4	3.7	3.6	3.7
Both sexes, 16 to 19 years													
Civilian labor force	6,721	6,758	6,716	6,696	6,736	6,641	6,693	6,710	6,812	6,740	6,914	6,963	7,019
Percent of population	55.4	55.7	55.3	55.0	55.3	54.4	54.8	54.9	55.6	55.0	56.3	56.6	56.9
Employed	5,776	5,849	5,851	5,735	5,768	5,699	5,750	5,813	5,976	5,983	6,113	6,107	6,120
Employment-population ratio	47.6	48.2	48.2	47.1	47.3	46.7	47.0	47.5	48.8	48.8	49.8	49.6	49.6
Unemployed	945	909	865	961	968	942	943	897	836	757	802	857	899
Unemployment rate	14.1	13.5	12.9	14.4	14.4	14.2	14.1	13.4	12.3	11.2	11.6	12.3	12.8
Men	15.1	14.6	13.0	15.8	15.0	15.1	14.4	14.3	12.8	11.3	14.2	14.7	14.9
Women	13.0	12.2	12.7	12.8	13.7	13.1	13.7	12.3	11.6	11.1	8.8	9.8	10.6
BLACK													
Civilian noninstitutional population ¹ ..	23,895	23,923	23,950	23,978	24,006	24,043	24,081	24,117	24,149	24,180	24,196	24,229	24,257
Civilian labor force	15,438	15,389	15,424	15,426	15,524	15,728	15,691	15,555	15,638	15,709	15,788	15,885	15,971
Percent of population	64.6	64.3	64.4	64.3	64.7	65.4	65.2	64.5	64.8	65.0	65.3	65.6	65.8
Employed	13,816	13,864	13,837	13,836	14,040	14,237	14,180	14,067	14,128	14,149	14,316	14,349	14,498
Employment-population ratio	57.8	58.0	57.8	57.7	58.5	59.2	58.9	58.3	58.5	58.5	59.2	59.2	59.8
Unemployed	1,622	1,525	1,587	1,590	1,484	1,491	1,511	1,488	1,510	1,560	1,472	1,535	1,473
Unemployment rate	10.5	9.9	10.3	10.3	9.6	9.5	9.6	9.6	9.7	9.9	9.3	9.7	9.2
Men, 20 years and over													
Civilian labor force	6,823	6,832	6,851	6,925	6,946	7,035	6,978	6,945	6,965	6,957	7,012	6,974	7,044
Percent of population	71.8	71.7	71.7	72.4	72.5	73.3	72.6	72.3	72.1	72.0	72.6	72.1	72.8
Employed	6,214	6,256	6,273	6,305	6,371	6,480	6,424	6,367	6,420	6,356	6,456	6,428	6,511
Employment-population ratio	65.4	65.7	65.7	65.9	66.5	67.5	66.8	66.3	66.5	65.8	66.9	66.5	67.3
Unemployed	609	576	578	620	575	555	554	578	545	601	556	546	533
Unemployment rate	8.9	8.4	8.4	9.0	8.3	7.9	7.9	8.3	7.8	8.6	7.9	7.8	7.6
Women, 20 years and over													
Civilian labor force	7,636	7,641	7,671	7,617	7,691	7,771	7,790	7,680	7,731	7,791	7,799	7,952	7,935
Percent of population	63.8	63.8	63.9	63.5	64.1	64.6	64.6	63.6	63.9	64.4	64.3	65.5	65.3
Employed	6,937	6,984	6,968	6,932	7,048	7,115	7,135	7,044	7,080	7,163	7,178	7,265	7,284
Employment-population ratio	58.0	58.3	58.1	57.8	58.7	59.1	59.2	58.3	58.6	59.2	59.2	59.8	60.0
Unemployed	699	657	703	685	643	656	655	636	651	628	621	687	651
Unemployment rate	9.2	8.6	9.2	9.0	8.4	8.4	8.4	8.3	8.4	8.1	8.0	8.6	8.2

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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	979	916	902	884	887	922	923	930	942	961	977	959	992
Percent of population	40.4	37.9	37.5	36.5	36.7	38.3	38.3	38.2	39.2	39.8	40.5	39.6	40.9
Employed	665	624	596	599	621	642	621	656	628	630	683	656	703
Employment-population ratio	27.4	25.8	24.8	24.7	25.7	26.6	25.8	26.9	26.1	26.1	28.3	27.1	29.0
Unemployed	314	292	306	285	266	280	302	274	314	331	294	302	289
Unemployment rate	32.1	31.9	33.9	32.2	30.0	30.4	32.7	29.5	33.3	34.4	30.1	31.5	29.1
Men	40.5	37.7	34.5	39.1	34.6	33.9	37.6	30.1	35.0	36.2	31.8	34.7	27.8
Women	24.6	26.3	33.3	25.5	25.9	27.2	28.6	28.8	31.9	33.1	28.5	28.4	30.3
HISPANIC ORIGIN													
Civilian noninstitutional population ¹ ..	20,119	20,180	20,236	20,293	20,351	20,407	20,464	20,519	20,575	20,629	20,741	20,798	20,851
Civilian labor force	13,666	13,601	13,760	13,814	13,861	13,886	13,861	13,896	13,880	13,973	13,954	14,149	14,298
Percent of population	67.9	67.4	68.0	68.1	68.1	68.0	67.7	67.7	67.5	67.7	67.3	68.0	68.6
Employed	12,533	12,514	12,713	12,751	12,772	12,867	12,807	12,806	12,921	12,921	12,988	13,181	13,305
Employment-population ratio	62.3	62.0	62.8	62.8	62.8	63.1	62.6	62.4	62.8	62.6	62.6	63.4	63.8
Unemployed	1,133	1,087	1,047	1,063	1,089	1,019	1,054	1,090	959	1,052	966	968	993
Unemployment rate	8.3	8.0	7.6	7.7	7.9	7.3	7.6	7.8	6.9	7.5	6.9	6.8	6.9

¹ 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 1998, data reflect new composite estimation procedures and 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	1997											1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Less than a high school diploma														
Civilian noninstitutional population ¹	30,190	30,086	30,198	29,924	29,288	29,314	29,350	29,046	29,505	29,566	29,981	29,228	29,251	
Civilian labor force	12,629	12,543	12,590	12,608	12,554	12,534	12,555	12,468	12,511	12,555	12,682	12,555	12,392	
Percent of population	41.8	41.7	41.7	42.1	42.9	42.8	42.8	42.9	42.4	42.5	42.3	43.0	42.4	
Employed	11,572	11,513	11,556	11,575	11,579	11,573	11,548	11,502	11,575	11,606	11,771	11,676	11,500	
Employment-population ratio	38.3	38.3	38.3	38.7	39.5	39.5	39.3	39.6	39.2	39.3	39.3	39.9	39.3	
Unemployed	1,057	1,030	1,034	1,033	975	961	1,007	966	936	949	911	879	891	
Unemployment rate	8.4	8.2	8.2	8.2	7.8	7.7	8.0	7.7	7.5	7.6	7.2	7.0	7.2	
High school graduates, no college²														
Civilian noninstitutional population ¹	57,148	57,239	57,392	57,643	57,581	57,607	57,483	57,459	57,310	57,631	57,606	57,418	57,885	
Civilian labor force	37,776	37,687	37,669	37,826	37,987	37,842	37,585	37,759	37,641	37,827	37,787	37,807	37,931	
Percent of population	66.1	65.8	65.6	65.6	66.0	65.7	65.4	65.7	65.7	65.6	65.6	65.8	65.5	
Employed	36,115	36,098	36,097	36,174	36,382	36,225	36,003	36,179	36,193	36,287	36,303	36,302	36,331	
Employment-population ratio	63.2	63.1	62.9	62.8	63.2	62.9	62.6	63.0	63.2	63.0	63.0	63.2	62.8	
Unemployed	1,661	1,589	1,572	1,652	1,605	1,617	1,582	1,580	1,448	1,540	1,485	1,505	1,600	
Unemployment rate	4.4	4.2	4.2	4.4	4.2	4.3	4.2	4.2	3.8	4.1	3.9	4.0	4.2	
Less than a bachelor's degree³														
Civilian noninstitutional population ¹	41,675	41,528	41,648	41,747	42,322	42,401	42,075	42,613	42,417	42,085	41,718	42,527	42,313	
Civilian labor force	31,306	31,192	31,279	31,333	31,227	31,445	31,401	31,328	31,544	31,506	31,440	31,505	31,515	
Percent of population	75.1	75.1	75.1	75.1	73.8	74.2	74.6	73.5	74.4	74.9	75.4	74.1	74.5	
Employed	30,179	30,153	30,342	30,316	30,239	30,438	30,382	30,410	30,574	30,484	30,429	30,538	30,471	
Employment-population ratio	72.4	72.6	72.9	72.6	71.4	71.8	72.2	71.4	72.1	72.4	72.9	71.8	72.0	
Unemployed	1,127	1,039	937	1,017	988	1,007	1,019	918	970	1,022	1,011	967	1,043	
Unemployment rate	3.6	3.3	3.0	3.2	3.2	3.2	3.2	2.9	3.1	3.2	3.2	3.1	3.3	
College graduates														
Civilian noninstitutional population ¹	40,874	41,099	40,909	40,955	41,171	41,232	41,769	41,696	41,739	41,822	41,974	42,238	42,085	
Civilian labor force	32,817	33,135	32,971	33,036	33,159	33,290	33,577	33,510	33,505	33,678	33,685	33,672	33,777	
Percent of population	80.3	80.6	80.6	80.7	80.5	80.7	80.4	80.4	80.3	80.5	80.3	79.7	80.3	
Employed	32,138	32,477	32,265	32,356	32,474	32,592	32,891	32,868	32,916	33,083	33,040	33,029	33,145	
Employment-population ratio	78.6	79.0	78.9	79.0	78.9	79.0	78.7	78.8	78.9	79.1	78.7	78.2	78.8	
Unemployed	679	658	706	680	685	698	686	642	589	595	645	643	632	
Unemployment rate	2.1	2.0	2.1	2.1	2.1	2.1	2.0	1.9	1.8	1.8	1.9	1.9	1.9	

1 The population figures are not adjusted for seasonal variation.
 2 Includes high school diploma or equivalent.
 3 Includes the categories, some college, no degree; and associate degree.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

Full- and part-time status, sex, and age	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
EMPLOYED													
Full-time workers	105,631	105,862	106,095	106,343	106,548	106,672	106,926	106,824	107,491	107,452	107,777	107,788	107,696
Men, 16 years and over	61,728	62,055	62,160	62,245	62,332	62,376	62,487	62,439	63,014	62,829	62,909	62,810	62,740
Men, 20 years and over	60,423	60,767	60,863	60,976	61,038	61,101	61,197	61,142	61,672	61,505	61,652	61,534	61,434
Women, 16 years and over	43,867	43,778	43,912	44,146	44,304	44,375	44,436	44,369	44,452	44,589	44,741	44,869	44,855
Women, 20 years and over	42,952	42,943	43,085	43,281	43,364	43,468	43,518	43,479	43,546	43,691	43,856	43,898	43,810
Both sexes, 16 to 19 years	2,256	2,152	2,147	2,086	2,146	2,103	2,211	2,203	2,273	2,256	2,268	2,356	2,452
Part-time workers	23,411	23,322	23,327	22,987	23,016	23,061	23,004	23,163	23,244	23,422	23,373	23,249	23,428
Men, 16 years and over	7,640	7,439	7,487	7,323	7,375	7,436	7,348	7,401	7,432	7,459	7,469	7,547	7,550
Men, 20 years and over	5,532	5,378	5,326	5,260	5,323	5,355	5,278	5,255	5,226	5,257	5,273	5,319	5,305
Women, 16 years and over	15,802	15,899	15,816	15,689	15,628	15,623	15,652	15,766	15,802	16,014	15,833	15,704	15,901
Women, 20 years and over	13,369	13,405	13,400	13,280	13,290	13,291	13,366	13,432	13,447	13,559	13,258	13,175	13,382
Both sexes, 16 to 19 years	4,510	4,539	4,601	4,447	4,403	4,415	4,360	4,476	4,571	4,606	4,842	4,755	4,742
UNEMPLOYED													
Looking for full-time work	5,670	5,375	5,300	5,480	5,329	5,305	5,309	5,215	4,987	5,203	5,075	5,070	5,126
Men, 16 years and over	3,110	2,986	2,855	3,164	2,961	2,958	2,984	2,991	2,834	2,994	2,645	2,610	2,725
Men, 20 years and over	2,746	2,651	2,487	2,669	2,585	2,568	2,571	2,600	2,466	2,689	2,438	2,386	2,462
Women, 16 years and over	2,521	2,410	2,472	2,395	2,344	2,369	2,361	2,254	2,205	2,220	2,296	2,369	2,322
Women, 20 years and over	2,262	2,140	2,162	2,125	2,102	2,116	2,069	1,979	1,905	1,914	2,102	2,137	2,050
Both sexes, 16 to 19 years	662	584	651	686	642	621	669	636	616	600	536	547	613
Looking for part-time work	1,411	1,394	1,303	1,296	1,305	1,346	1,328	1,288	1,329	1,238	1,339	1,279	1,409
Men, 16 years and over	585	639	519	542	558	577	561	570	551	502	549	583	582
Men, 20 years and over	259	256	193	227	219	233	245	263	226	220	206	220	234
Women, 16 years and over	805	768	788	772	766	752	751	705	779	753	760	708	806
Women, 20 years and over	483	486	496	474	445	459	458	440	499	462	505	443	536
Both sexes, 16 to 19 years	669	652	614	595	641	654	625	585	604	556	627	615	640
UNEMPLOYMENT RATES¹													
Full-time workers	5.1	4.8	4.8	4.9	4.8	4.7	4.7	4.7	4.4	4.6	4.5	4.5	4.5
Men, 16 years and over	4.8	4.6	4.4	4.8	4.5	4.5	4.6	4.6	4.3	4.5	4.0	4.0	4.2
Men, 20 years and over	4.3	4.2	3.9	4.2	4.1	4.0	4.0	4.1	3.8	4.2	3.8	3.7	3.9
Women, 16 years and over	5.4	5.2	5.3	5.1	5.0	5.1	5.0	4.8	4.7	4.7	4.9	5.0	4.9
Women, 20 years and over	5.0	4.7	4.8	4.7	4.6	4.6	4.5	4.4	4.2	4.2	4.6	4.6	4.5
Both sexes, 16 to 19 years	22.7	21.3	23.3	24.7	23.0	22.8	23.2	22.4	21.3	21.0	19.1	18.8	20.0
Part-time workers	5.7	5.6	5.3	5.3	5.4	5.5	5.5	5.3	5.4	5.0	5.4	5.2	5.7
Men, 16 years and over	7.1	7.9	6.5	6.9	7.0	7.2	7.1	7.2	6.9	6.3	6.8	7.2	7.2
Men, 20 years and over	4.5	4.5	3.5	4.1	4.0	4.2	4.4	4.8	4.1	4.0	3.8	4.0	4.2
Women, 16 years and over	4.8	4.6	4.7	4.7	4.7	4.6	4.6	4.3	4.7	4.5	4.6	4.3	4.8
Women, 20 years and over	3.5	3.5	3.6	3.4	3.2	3.3	3.3	3.2	3.6	3.3	3.7	3.3	3.8
Both sexes, 16 to 19 years	12.9	12.6	11.8	11.8	12.7	12.9	12.5	11.6	11.7	10.8	11.5	11.5	11.9

¹ 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 1998, data reflect new composite estimation procedures and 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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
MARITAL STATUS													
Total	129,035	129,275	129,494	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994
Married men, spouse present	42,502	42,426	42,375	42,476	42,582	42,680	42,648	42,771	42,967	42,952	42,977	42,915	42,779
Married women, spouse present	32,690	32,549	32,520	32,654	32,813	32,861	32,846	32,978	32,840	32,975	32,793	32,821	32,872
Women who maintain families	7,696	7,790	7,820	7,820	7,875	7,892	7,876	7,865	7,726	7,822	7,784	7,884	7,776
OCCUPATION													
Managerial and professional specialty	37,618	37,571	37,356	37,549	37,598	37,765	37,860	37,844	37,986	38,205	38,099	38,164	38,454
Technical, sales, and administrative support	38,153	38,143	38,304	38,188	38,240	38,334	38,535	38,537	38,540	38,562	38,382	38,491	38,693
Service occupations	17,319	17,326	17,418	17,450	17,550	17,713	17,746	17,723	17,827	17,890	18,162	17,950	17,752
Precision production, craft, and repair	14,138	14,216	14,279	14,282	14,234	14,038	13,859	14,051	14,191	14,299	14,285	14,456	14,656
Operators, fabricators, and laborers	18,267	18,382	18,593	18,540	18,476	18,452	18,302	18,385	18,467	18,394	18,622	18,632	18,179
Farming, forestry, and fishing	3,513	3,572	3,612	3,502	3,531	3,442	3,483	3,438	3,512	3,472	3,355	3,436	3,269
CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,901	1,952	1,917	1,912	1,897	1,853	1,889	1,815	1,855	1,844	1,949	1,928	1,866
Self-employed workers	1,433	1,438	1,442	1,429	1,478	1,477	1,495	1,475	1,493	1,496	1,348	1,324	1,242
Unpaid family workers	59	62	52	47	52	50	44	55	49	54	44	41	32
Nonagricultural industries:													
Wage and salary workers	116,413	116,515	116,874	116,642	117,146	117,372	117,303	117,635	118,083	118,403	118,529	118,961	119,131
Private industries	98,346	98,467	99,011	98,529	98,843	99,169	99,194	99,560	99,913	100,155	100,108	100,583	101,058
Private households	882	923	948	888	911	935	877	910	946	985	985	1,035	1,022
Other industries	97,464	97,544	98,063	97,641	97,932	98,234	98,317	98,683	99,003	99,209	99,123	99,547	100,037
Government	18,067	18,048	17,863	18,113	18,303	18,203	18,109	18,075	18,170	18,248	18,421	18,378	18,072
Self-employed workers	9,219	9,124	9,098	9,089	8,927	8,955	8,949	8,930	9,004	8,886	8,964	8,761	8,784
Unpaid family workers	109	133	142	128	129	126	83	92	97	99	131	117	102
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,162	4,360	4,060	4,049	4,019	3,988	3,928	3,913	3,890	3,855	4,082	3,882	3,902
Slack work or business conditions	2,340	2,402	2,295	2,347	2,236	2,164	2,187	2,211	2,221	2,230	2,282	2,123	2,188
Could only find part-time work	1,519	1,625	1,440	1,373	1,489	1,487	1,455	1,406	1,386	1,323	1,400	1,455	1,445
Part time for noneconomic reasons	18,144	18,155	18,218	18,205	18,055	18,096	17,901	18,113	18,083	18,386	18,515	18,407	18,448
Nonagricultural industries:													
Part time for economic reasons	3,957	4,204	3,853	3,819	3,858	3,832	3,739	3,732	3,689	3,654	3,865	3,743	3,726
Slack work or business conditions	2,210	2,279	2,166	2,202	2,121	2,066	2,067	2,103	2,100	2,113	2,162	2,025	2,057
Could only find part-time work	1,484	1,599	1,402	1,320	1,462	1,455	1,417	1,378	1,346	1,291	1,373	1,433	1,416
Part time for noneconomic reasons	17,559	17,588	17,654	17,577	17,452	17,521	17,381	17,537	17,486	17,791	17,898	17,786	17,929

¹ 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(In thousands)

Age and sex	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total, 16 years and over	129,035	129,275	129,494	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994
16 to 24 years	19,022	19,069	19,191	18,919	19,017	18,855	19,013	19,002	19,257	19,304	19,574	19,587	19,563
16 to 19 years	6,682	6,720	6,697	6,559	6,607	6,572	6,580	6,654	6,798	6,846	7,035	7,028	7,055
16 to 17 years	2,648	2,702	2,615	2,628	2,622	2,567	2,640	2,680	2,680	2,676	2,843	2,803	2,840
18 to 19 years	4,025	4,010	4,105	3,943	3,982	3,976	3,936	3,976	4,118	4,176	4,193	4,224	4,215
20 to 24 years	12,340	12,349	12,494	12,360	12,410	12,283	12,433	12,348	12,459	12,458	12,539	12,560	12,508
25 years and over	110,007	110,241	110,337	110,487	110,610	110,858	110,831	110,964	111,251	111,445	111,463	111,505	111,398
25 to 54 years	94,009	94,225	94,225	94,540	94,717	94,910	94,772	94,707	94,859	94,941	95,125	95,099	95,055
55 years and over	15,999	15,929	16,031	15,892	15,934	16,063	16,104	16,220	16,417	16,523	16,367	16,401	16,388
Men, 16 years and over	69,415	69,565	69,765	69,586	69,711	69,748	69,656	69,785	70,352	70,195	70,518	70,459	70,297
16 to 24 years	9,918	9,943	10,134	9,904	9,929	9,895	9,880	9,889	10,070	10,010	10,178	10,132	10,167
16 to 19 years	3,384	3,367	3,456	3,328	3,350	3,362	3,358	3,448	3,528	3,519	3,510	3,470	3,544
16 to 17 years	1,343	1,349	1,338	1,338	1,331	1,339	1,360	1,398	1,401	1,377	1,472	1,397	1,452
18 to 19 years	2,034	2,016	2,126	2,001	2,007	1,996	1,980	2,075	2,128	2,151	2,041	2,080	2,093
20 to 24 years	6,534	6,576	6,678	6,576	6,579	6,533	6,522	6,441	6,542	6,491	6,668	6,662	6,622
25 years and over	59,479	59,599	59,639	59,671	59,781	59,850	59,877	59,952	60,234	60,168	60,288	60,315	60,117
25 to 54 years	50,549	50,652	50,680	50,772	50,858	50,906	50,871	50,867	51,125	51,034	51,235	51,201	51,144
55 years and over	8,928	8,921	8,958	8,858	8,932	9,007	9,009	9,060	9,152	9,151	9,048	9,087	8,991
Women, 16 years and over	59,620	59,710	59,729	59,806	59,950	59,999	60,105	60,125	60,223	60,582	60,565	60,704	60,697
16 to 24 years	9,104	9,126	9,057	9,015	9,088	8,960	9,133	9,113	9,187	9,294	9,396	9,455	9,397
16 to 19 years	3,298	3,353	3,241	3,231	3,257	3,210	3,222	3,206	3,270	3,327	3,525	3,558	3,511
16 to 17 years	1,305	1,353	1,277	1,290	1,291	1,228	1,280	1,282	1,279	1,299	1,371	1,406	1,388
18 to 19 years	1,991	1,994	1,979	1,942	1,975	1,980	1,956	1,901	1,990	2,025	2,152	2,144	2,122
20 to 24 years	5,806	5,773	5,816	5,784	5,831	5,750	5,911	5,907	5,917	5,967	5,871	5,898	5,886
25 years and over	50,528	50,642	50,698	50,816	50,829	51,008	50,954	51,012	51,017	51,277	51,175	51,190	51,281
25 to 54 years	43,460	43,573	43,545	43,768	43,859	44,004	43,901	43,840	43,734	43,907	43,890	43,898	43,910
55 years and over	7,071	7,008	7,073	7,034	7,002	7,056	7,095	7,160	7,265	7,372	7,319	7,314	7,397

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total, 16 years and over	7,080	6,768	6,566	6,814	6,633	6,657	6,678	6,496	6,289	6,392	6,409	6,393	6,529
16 to 24 years	2,522	2,434	2,361	2,426	2,350	2,393	2,408	2,375	2,360	2,300	2,371	2,378	2,335
16 to 19 years	1,323	1,241	1,244	1,295	1,284	1,272	1,291	1,221	1,218	1,138	1,154	1,207	1,245
16 to 17 years	622	610	586	550	571	559	631	568	574	576	596	638	579
18 to 19 years	705	632	664	743	729	722	669	654	646	555	549	538	670
20 to 24 years	1,199	1,193	1,117	1,131	1,066	1,121	1,117	1,154	1,142	1,162	1,218	1,171	1,090
25 years and over	4,547	4,287	4,249	4,371	4,245	4,296	4,304	4,122	3,923	4,149	4,019	4,018	4,184
25 to 54 years	4,014	3,767	3,787	3,867	3,750	3,778	3,791	3,636	3,461	3,659	3,588	3,571	3,712
55 years and over	538	479	480	509	488	504	512	472	472	480	459	450	486
Men, 16 years and over	3,749	3,619	3,324	3,639	3,507	3,517	3,536	3,526	3,330	3,467	3,333	3,320	3,399
16 to 24 years	1,370	1,334	1,209	1,337	1,293	1,334	1,347	1,350	1,325	1,250	1,278	1,348	1,282
16 to 19 years	740	710	643	740	697	705	698	670	654	582	689	709	700
16 to 17 years	354	341	304	328	309	295	314	311	312	310	330	371	330
18 to 19 years	390	371	345	421	385	417	381	360	349	268	357	313	374
20 to 24 years	630	624	566	597	596	629	649	680	671	668	588	639	582
25 years and over	2,359	2,272	2,156	2,292	2,201	2,220	2,182	2,176	2,005	2,213	2,050	1,975	2,102
25 to 54 years	2,052	1,994	1,878	2,007	1,928	1,921	1,901	1,887	1,727	1,896	1,785	1,718	1,828
55 years and over	313	262	264	285	274	284	276	277	278	325	289	268	285
Women, 16 years and over	3,331	3,149	3,242	3,175	3,126	3,140	3,142	2,970	2,959	2,925	3,076	3,073	3,130
16 to 24 years	1,152	1,100	1,152	1,089	1,057	1,059	1,061	1,025	1,035	1,050	1,094	1,030	1,053
16 to 19 years	583	531	601	555	587	567	593	551	564	556	464	498	545
16 to 17 years	268	269	282	222	262	264	317	257	262	266	266	267	249
18 to 19 years	315	261	319	322	344	305	288	294	297	287	191	225	296
20 to 24 years	569	569	551	534	470	492	468	474	471	494	629	532	508
25 years and over	2,188	2,015	2,093	2,079	2,044	2,076	2,122	1,946	1,918	1,936	1,969	2,043	2,082
25 to 54 years	1,962	1,773	1,909	1,860	1,822	1,857	1,890	1,749	1,734	1,763	1,802	1,853	1,884
55 years and over	225	217	216	224	214	220	236	195	194	155	170	181	201

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(Percent)

Age and sex	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total, 16 years and over	5.2	5.0	4.8	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7
16 to 24 years	11.7	11.3	11.0	11.4	11.0	11.3	11.2	11.1	10.9	10.6	10.8	10.8	10.7
16 to 19 years	16.5	15.6	15.7	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0
16 to 17 years	19.0	18.4	18.3	17.3	17.9	17.9	19.3	17.5	17.6	17.7	17.3	18.5	16.9
18 to 19 years	14.9	13.6	13.9	15.9	15.5	15.4	14.5	14.1	13.6	11.7	11.6	11.3	13.7
20 to 24 years	8.9	8.8	8.2	8.4	7.9	8.4	8.2	8.5	8.4	8.5	8.9	8.5	8.0
25 years and over	4.0	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.4	3.6	3.5	3.5	3.6
25 to 54 years	4.1	3.8	3.9	3.9	3.8	3.8	3.8	3.7	3.5	3.7	3.6	3.6	3.8
55 years and over	3.3	2.9	2.9	3.1	3.0	3.0	3.1	2.8	2.8	2.8	2.7	2.7	2.9
Men, 16 years and over	5.1	4.9	4.5	5.0	4.8	4.8	4.8	4.8	4.5	4.7	4.5	4.5	4.6
16 to 24 years	12.1	11.8	10.7	11.9	11.5	11.9	12.0	12.0	11.6	11.1	11.2	11.7	11.2
16 to 19 years	17.9	17.4	15.7	18.2	17.2	17.3	17.2	16.3	15.6	14.2	16.4	17.0	16.5
16 to 17 years	20.9	20.2	18.5	19.7	18.8	18.1	18.8	18.2	18.2	18.4	18.3	21.0	18.5
18 to 19 years	16.1	15.5	14.0	17.4	16.1	17.3	16.1	14.8	14.1	11.1	14.9	13.1	15.2
20 to 24 years	8.8	8.7	7.8	8.3	8.3	8.8	9.1	9.5	9.3	9.3	8.1	8.7	8.1
25 years and over	3.8	3.7	3.5	3.7	3.6	3.6	3.5	3.5	3.2	3.5	3.3	3.2	3.4
25 to 54 years	3.9	3.8	3.6	3.8	3.7	3.6	3.6	3.6	3.3	3.6	3.4	3.2	3.5
55 years and over	3.4	2.9	2.9	3.1	3.0	3.1	3.0	3.0	2.9	3.4	3.1	2.9	3.1
Women, 16 years and over	5.3	5.0	5.1	5.0	5.0	5.0	5.0	4.7	4.7	4.6	4.8	4.8	4.9
16 to 24 years	11.2	10.8	11.3	10.8	10.4	10.6	10.4	10.1	10.1	10.2	10.4	9.8	10.1
16 to 19 years	15.0	13.7	15.6	14.7	15.3	15.0	15.5	14.7	14.7	14.3	11.6	12.3	13.4
16 to 17 years	17.0	16.6	18.1	14.7	16.9	17.7	19.8	16.7	17.0	17.0	16.3	16.0	15.2
18 to 19 years	13.7	11.6	13.9	14.2	14.8	13.3	12.8	13.4	13.0	12.4	8.2	9.5	12.2
20 to 24 years	8.9	9.0	8.7	8.5	7.5	7.9	7.3	7.4	7.4	7.6	9.7	8.3	7.9
25 years and over	4.2	3.8	4.0	3.9	3.9	3.9	4.0	3.7	3.6	3.6	3.7	3.8	3.9
25 to 54 years	4.3	3.9	4.2	4.1	4.0	4.0	4.1	3.8	3.8	3.9	3.9	4.1	4.1
55 years and over	3.1	3.0	3.0	3.1	3.0	3.0	3.2	2.7	2.6	2.1	2.3	2.4	2.6

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
CHARACTERISTIC													
Total	5.2	5.0	4.8	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7
Men, 20 years and over	4.4	4.2	3.9	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.8	3.8	3.9
Women, 20 years and over	4.7	4.4	4.5	4.4	4.3	4.3	4.3	4.1	4.0	4.0	4.4	4.3	4.3
Both sexes, 16 to 19 years	16.5	15.6	15.7	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0
White	4.4	4.2	4.1	4.3	4.2	4.2	4.2	4.1	3.9	3.9	4.0	3.9	4.1
Black and other	9.3	8.9	9.2	8.9	8.4	8.4	8.4	8.2	8.4	8.6	8.3	8.3	8.2
Black	10.5	9.9	10.3	10.3	9.6	9.5	9.6	9.6	9.7	9.9	9.3	9.7	9.2
Hispanic origin	8.3	8.0	7.6	7.7	7.9	7.3	7.6	7.8	6.9	7.5	6.9	6.8	6.9
Married men, spouse present	2.8	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.4	2.6	2.6	2.5	2.5
Married women, spouse present	3.3	3.2	3.2	3.2	3.1	3.0	3.1	2.8	2.8	2.8	3.1	3.1	3.3
Women who maintain families	8.7	7.9	7.9	8.0	7.6	8.0	7.8	7.8	8.1	7.7	7.6	7.6	7.6
OCCUPATION¹													
Managerial and professional specialty	2.1	2.0	2.1	2.0	2.0	2.0	2.0	1.8	1.7	1.9	2.0	2.0	1.8
Technical, sales, and administrative support	4.3	4.2	3.9	4.2	4.1	4.1	4.0	3.9	3.9	4.0	4.2	4.0	4.1
Precision production, craft, and repair	4.9	4.8	4.7	4.8	4.9	4.7	4.8	5.3	4.5	4.7	4.6	4.1	4.5
Operators, fabricators, and laborers	8.0	7.4	7.2	7.4	7.4	7.6	7.8	7.1	7.1	7.0	5.9	6.5	6.9
Farming, forestry, and fishing	7.3	6.8	6.6	7.9	6.5	7.2	6.7	7.3	6.6	7.2	6.8	6.3	7.1
INDUSTRY													
Nonagricultural private wage and salary workers ...	5.2	5.0	5.0	5.0	4.9	5.0	5.0	4.8	4.7	4.8	4.7	4.7	4.7
Goods-producing industries	5.5	5.4	5.3	5.2	5.3	5.3	5.2	5.0	4.6	5.0	4.8	4.7	5.0
Mining	3.9	2.3	3.3	2.8	4.1	4.9	3.4	4.5	3.3	3.3	4.0	2.6	3.7
Construction	9.4	8.8	8.6	8.8	8.7	9.0	8.7	8.7	7.9	8.9	7.9	7.8	8.6
Manufacturing	4.3	4.4	4.3	4.2	4.3	4.1	4.1	3.8	3.6	3.8	3.9	3.7	3.8
Durable goods	3.7	3.6	3.6	3.6	3.5	3.5	3.3	3.1	3.1	3.1	3.4	2.9	3.6
Nondurable goods	5.3	5.5	5.3	5.0	5.4	5.0	5.3	4.8	4.4	4.9	4.5	5.0	4.2
Service-producing industries	5.1	4.9	4.9	4.9	4.8	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.6
Transportation and public utilities	3.9	2.9	3.6	3.0	3.4	3.7	3.8	3.3	3.1	3.3	3.8	3.2	3.3
Wholesale and retail trade	6.3	6.2	6.1	6.4	6.1	6.2	6.2	6.1	6.2	5.8	5.9	5.8	5.4
Finance, insurance, and real estate	3.2	3.3	3.1	2.5	3.1	3.0	3.0	2.9	2.4	2.8	2.6	2.6	2.6
Services	4.9	4.6	4.7	4.7	4.4	4.5	4.6	4.3	4.4	4.5	4.3	4.7	4.7
Government workers	2.8	2.4	2.5	2.8	2.7	2.6	2.6	2.4	2.3	2.1	2.4	2.3	2.9
Agricultural wage and salary workers	9.3	9.5	7.6	10.4	8.4	8.9	9.0	9.6	8.6	9.7	10.6	8.6	9.7

¹ 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Reason	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
NUMBER OF UNEMPLOYED													
Job losers and persons who completed temporary jobs	3,148	3,038	2,961	3,094	2,954	3,010	3,007	2,934	2,886	2,991	2,807	2,795	2,980
On temporary layoff	993	958	909	928	894	891	893	963	815	961	860	821	980
Not on temporary layoff	2,155	2,080	2,052	2,166	2,060	2,119	2,114	1,971	2,071	2,030	1,947	1,975	2,000
Job leavers	797	776	808	827	812	894	853	732	655	692	808	786	744
Reentrants	2,497	2,422	2,338	2,333	2,263	2,173	2,263	2,247	2,229	2,170	2,229	2,266	2,215
New entrants	617	569	573	510	564	554	560	555	560	552	518	543	549
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers and persons who completed temporary jobs	44.6	44.6	44.3	45.7	44.8	45.4	45.0	45.4	45.6	46.7	44.1	43.7	45.9
On temporary layoff	14.1	14.1	13.6	13.7	13.6	13.4	13.4	14.9	12.9	15.0	13.5	12.8	15.1
Not on temporary layoff	30.5	30.6	30.7	32.0	31.2	32.0	31.6	30.5	32.7	31.7	30.6	30.9	30.8
Job leavers	11.3	11.4	12.1	12.2	12.3	13.5	12.8	11.3	10.3	10.8	12.7	12.3	11.5
Reentrants	35.4	35.6	35.0	34.5	34.3	32.8	33.9	34.7	35.2	33.9	35.0	35.5	34.1
New entrants	8.7	8.4	8.6	7.5	8.6	8.4	8.4	8.6	8.8	8.6	8.1	8.5	8.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers and persons who completed temporary jobs	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.0	2.0	2.2
Job leavers .....	.6	.6	.6	.6	.6	.7	.6	.5	.5	.5	.6	.6	.5
Reentrants	1.8	1.8	1.7	1.7	1.7	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6
New entrants .....	.5	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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

(Numbers in thousands)

Duration	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
NUMBER OF UNEMPLOYED													
Less than 5 weeks	2,618	2,471	2,542	2,541	2,446	2,564	2,484	2,558	2,423	2,531	2,488	2,622	2,858
5 to 14 weeks	2,325	2,177	2,067	2,188	2,097	2,121	2,115	1,912	2,048	1,922	1,971	1,909	1,979
15 weeks and over	2,079	2,088	2,076	2,069	2,128	2,027	2,109	1,990	1,865	1,964	1,811	1,830	1,731
15 to 26 weeks	1,003	1,033	1,054	1,031	1,061	950	1,031	919	899	936	773	855	841
27 weeks and over	1,076	1,055	1,022	1,038	1,067	1,077	1,078	1,071	966	1,028	1,038	974	891
Average (mean) duration, in weeks	15.4	15.4	15.3	15.3	16.5	15.8	15.9	16.3	15.6	16.3	15.6	15.6	14.3
Median duration, in weeks	7.9	8.1	7.8	7.9	8.2	7.9	8.1	7.7	7.8	7.7	7.4	7.2	6.8
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	37.3	36.7	38.0	37.4	36.7	38.2	37.0	39.6	38.2	39.4	39.7	41.2	43.5
5 to 14 weeks	33.1	32.3	30.9	32.2	31.4	31.6	31.5	29.6	32.3	30.0	31.4	30.0	30.1
15 weeks and over	29.6	31.0	31.1	30.4	31.9	30.2	31.4	30.8	29.4	30.6	28.9	28.8	26.4
15 to 26 weeks	14.3	15.3	15.8	15.2	15.9	14.2	15.4	14.2	14.2	14.6	12.3	13.4	12.8
27 weeks and over	15.3	15.7	15.3	15.3	16.0	16.0	16.1	16.6	15.2	16.0	16.6	15.3	13.6

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	March 1998									
	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	
TOTAL										
16 years and over	204,547	136,967	67.0	130,150	63.6	2,931	127,219	6,816	5.0	67,580
16 to 19 years	15,511	7,742	49.9	6,571	42.4	189	6,383	1,170	15.1	7,769
16 to 17 years	7,894	3,062	38.8	2,507	31.8	79	2,428	555	18.1	4,832
18 to 19 years	7,617	4,680	61.4	4,064	53.4	110	3,955	615	13.2	2,937
20 to 24 years	17,502	13,404	76.6	12,269	70.1	295	11,973	1,135	8.5	4,099
25 to 54 years	117,218	98,812	84.3	94,826	80.9	1,888	92,958	3,986	4.0	18,406
25 to 34 years	39,012	33,139	84.9	31,469	80.7	657	30,811	1,671	5.0	5,873
25 to 29 years	18,712	15,947	85.2	15,079	80.6	291	14,788	868	5.4	2,765
30 to 34 years	20,300	17,192	84.7	16,390	80.7	366	16,023	803	4.7	3,108
35 to 44 years	44,186	37,483	84.8	36,048	81.6	644	35,404	1,435	3.8	6,703
35 to 39 years	22,471	18,904	84.1	18,167	80.8	346	17,821	737	3.9	3,567
40 to 44 years	21,715	18,579	85.6	17,881	82.3	298	17,583	698	3.8	3,136
45 to 54 years	34,020	28,189	82.9	27,310	80.3	567	26,743	880	3.1	5,830
45 to 49 years	18,617	15,819	85.0	15,290	82.1	309	14,981	529	3.3	2,798
50 to 54 years	15,403	12,371	80.3	12,020	78.0	258	11,762	351	2.8	3,032
55 to 64 years	22,164	13,205	59.6	12,812	57.8	366	12,446	394	3.0	8,959
55 to 59 years	12,163	8,479	69.7	8,222	67.6	202	8,020	257	3.0	3,684
60 to 64 years	10,002	4,727	47.3	4,590	45.9	163	4,427	137	2.9	5,275
65 years and over	32,151	3,804	11.8	3,672	11.4	214	3,459	132	3.5	28,347
65 to 69 years	9,420	2,102	22.3	2,026	21.5	96	1,930	76	3.6	7,318
70 to 74 years	8,559	1,067	12.5	1,025	12.0	69	956	42	3.9	7,492
75 years and over	14,173	635	4.5	621	4.4	48	573	14	2.2	13,537
Men										
16 years and over	98,405	73,285	74.5	69,506	70.6	2,207	67,299	3,779	5.2	25,121
16 to 19 years	7,903	3,929	49.7	3,243	41.0	141	3,102	686	17.5	3,974
16 to 17 years	4,064	1,584	39.0	1,256	30.9	66	1,190	329	20.7	2,480
18 to 19 years	3,839	2,345	61.1	1,987	51.8	76	1,912	357	15.2	1,495
20 to 24 years	8,730	7,044	80.7	6,396	73.3	220	6,176	649	9.2	1,686
25 to 54 years	57,608	52,967	92.0	50,864	88.3	1,416	49,448	2,123	4.0	4,621
25 to 34 years	19,223	17,961	93.4	17,088	88.9	518	16,569	873	4.9	1,263
25 to 29 years	9,175	8,548	93.2	8,073	88.0	227	7,846	474	5.6	627
30 to 34 years	10,049	9,413	93.7	9,014	89.7	291	8,723	399	4.2	636
35 to 44 years	21,805	20,134	92.3	19,401	89.0	502	18,899	733	3.6	1,671
35 to 39 years	11,089	10,230	92.3	9,866	89.0	282	9,584	364	3.6	859
40 to 44 years	10,716	9,904	92.4	9,535	89.0	220	9,314	369	3.7	812
45 to 54 years	16,579	14,892	89.8	14,376	86.7	396	13,980	516	3.5	1,687
45 to 49 years	9,106	8,319	91.4	8,017	88.0	228	7,789	302	3.6	787
50 to 54 years	7,473	6,573	88.0	6,358	85.1	167	6,191	215	3.3	900
55 to 64 years	10,600	7,198	67.9	6,954	65.6	258	6,696	244	3.4	3,402
55 to 59 years	5,868	4,585	78.1	4,431	75.5	135	4,296	154	3.4	1,284
60 to 64 years	4,732	2,614	55.2	2,524	53.3	123	2,400	90	3.4	2,118
65 years and over	13,564	2,126	15.7	2,049	15.1	172	1,877	78	3.6	11,438
65 to 69 years	4,335	1,150	26.5	1,104	25.5	81	1,023	46	4.0	3,185
70 to 74 years	3,727	611	16.4	590	15.8	54	536	21	3.5	3,116
75 years and over	5,502	365	6.6	355	6.5	37	318	10	2.6	5,137
Women										
16 years and over	106,141	63,682	60.0	60,644	57.1	724	59,921	3,038	4.8	42,459
16 to 19 years	7,608	3,813	50.1	3,329	43.8	47	3,281	484	12.7	3,795
16 to 17 years	3,830	1,478	38.6	1,251	32.7	13	1,238	226	15.3	2,352
18 to 19 years	3,778	2,335	61.8	2,077	55.0	34	2,043	258	11.0	1,443
20 to 24 years	8,772	6,359	72.5	5,873	66.9	75	5,798	486	7.6	2,413
25 to 54 years	59,610	45,825	76.9	43,962	73.7	452	43,510	1,863	4.1	13,785
25 to 34 years	19,788	15,178	76.7	14,381	72.7	139	14,242	798	5.3	4,610
25 to 29 years	9,537	7,399	77.6	7,006	73.5	64	6,942	394	5.3	2,138
30 to 34 years	10,251	7,779	75.9	7,375	71.9	75	7,300	404	5.2	2,472
35 to 44 years	22,381	17,349	77.5	16,647	74.4	142	16,505	702	4.0	5,032
35 to 39 years	11,381	8,674	76.2	8,301	72.9	64	8,237	373	4.3	2,708
40 to 44 years	10,999	8,675	78.9	8,346	75.9	78	8,269	329	3.8	2,324
45 to 54 years	17,441	13,297	76.2	12,934	74.2	171	12,763	364	2.7	4,143
45 to 49 years	9,511	7,500	78.9	7,273	76.5	80	7,192	228	3.0	2,011
50 to 54 years	7,929	5,797	73.1	5,661	71.4	91	5,571	136	2.3	2,132
55 to 64 years	11,564	6,007	51.9	5,857	50.7	108	5,750	150	2.5	5,557
55 to 59 years	6,295	3,894	61.9	3,791	60.2	68	3,724	103	2.6	2,400
60 to 64 years	5,270	2,113	40.1	2,066	39.2	40	2,026	47	2.2	3,157
65 years and over	18,587	1,678	9.0	1,623	8.7	42	1,581	54	3.2	16,909
65 to 69 years	5,084	952	18.7	922	18.1	15	907	30	3.1	4,133
70 to 74 years	4,832	456	9.4	435	9.0	16	419	20	4.5	4,376
75 years and over	8,671	271	3.1	266	3.1	11	255	5	1.7	8,400

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	March 1998									
	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	
WHITE										
16 years and over	171,016	114,822	67.1	109,842	64.2	2,776	107,066	4,980	4.3	56,194
16 to 19 years	12,337	6,584	53.4	5,720	46.4	186	5,534	864	13.1	5,753
16 to 17 years	6,255	2,627	42.0	2,229	35.6	77	2,152	399	15.2	3,627
18 to 19 years	6,082	3,957	65.1	3,492	57.4	110	3,382	465	11.8	2,126
20 to 24 years	14,084	11,086	78.7	10,311	73.2	293	10,018	775	7.0	2,998
25 to 54 years	96,865	82,246	84.9	79,352	81.9	1,758	77,594	2,895	3.5	14,619
25 to 34 years	31,513	26,932	85.5	25,775	81.8	622	25,152	1,157	4.3	4,581
25 to 29 years	15,081	12,966	86.0	12,350	81.9	275	12,075	616	4.8	2,114
30 to 34 years	16,433	13,966	85.0	13,424	81.7	347	13,077	541	3.9	2,467
35 to 44 years	36,523	31,194	85.4	30,142	82.5	607	29,535	1,051	3.4	5,329
35 to 39 years	18,535	15,704	84.7	15,186	81.9	317	14,868	519	3.3	2,830
40 to 44 years	17,988	15,490	86.1	14,957	83.1	290	14,667	533	3.4	2,499
45 to 54 years	28,829	24,121	83.7	23,435	81.3	529	22,906	686	2.8	4,709
45 to 49 years	15,706	13,439	85.6	13,037	83.0	296	12,742	402	3.0	2,267
50 to 54 years	13,123	10,682	81.4	10,397	79.2	233	10,164	285	2.7	2,441
55 to 64 years	19,103	11,507	60.2	11,160	58.4	329	10,831	347	3.0	7,596
55 to 59 years	10,472	7,403	70.7	7,177	68.5	187	6,990	226	3.1	3,069
60 to 64 years	8,631	4,105	47.6	3,983	46.2	142	3,842	121	3.0	4,526
65 years and over	28,626	3,398	11.9	3,300	11.5	210	3,090	99	2.9	25,227
65 to 69 years	8,225	1,880	22.9	1,823	22.2	92	1,731	56	3.0	6,345
70 to 74 years	7,641	973	12.7	943	12.3	69	874	30	3.1	6,668
75 years and over	12,760	545	4.3	533	4.2	48	485	12	2.3	12,214
Men										
16 years and over	83,098	62,479	75.2	59,611	71.7	2,082	57,529	2,868	4.6	20,619
16 to 19 years	6,334	3,395	53.6	2,859	45.1	141	2,718	535	15.8	2,940
16 to 17 years	3,230	1,375	42.6	1,120	34.7	66	1,055	255	18.5	1,855
18 to 19 years	3,105	2,020	65.1	1,739	56.0	76	1,663	281	13.9	1,085
20 to 24 years	7,141	5,920	82.9	5,448	76.3	218	5,230	472	8.0	1,221
25 to 54 years	48,264	44,896	93.0	43,316	89.7	1,329	41,987	1,580	3.5	3,368
25 to 34 years	15,754	14,917	94.7	14,273	90.6	490	13,784	644	4.3	837
25 to 29 years	7,534	7,121	94.5	6,764	89.8	216	6,548	358	5.0	412
30 to 34 years	8,220	7,796	94.8	7,509	91.4	274	7,235	286	3.7	424
35 to 44 years	18,262	17,058	93.4	16,520	90.5	474	16,046	538	3.2	1,205
35 to 39 years	9,277	8,650	93.2	8,395	90.5	261	8,134	254	2.9	627
40 to 44 years	8,985	8,408	93.6	8,125	90.4	212	7,912	283	3.4	577
45 to 54 years	14,248	12,921	90.7	12,523	87.9	366	12,157	398	3.1	1,327
45 to 49 years	7,795	7,164	91.9	6,937	89.0	218	6,720	227	3.2	631
50 to 54 years	6,453	5,757	89.2	5,585	86.6	148	5,437	171	3.0	696
55 to 64 years	9,223	6,363	69.0	6,137	66.5	225	5,911	226	3.6	2,860
55 to 59 years	5,092	4,060	79.7	3,917	76.9	120	3,797	144	3.5	1,031
60 to 64 years	4,132	2,303	55.7	2,220	53.7	106	2,114	83	3.6	1,829
65 years and over	12,136	1,906	15.7	1,851	15.2	169	1,682	55	2.9	10,230
65 to 69 years	3,811	1,028	27.0	998	26.2	78	920	30	3.0	2,783
70 to 74 years	3,385	561	16.6	546	16.1	54	492	15	2.7	2,824
75 years and over	4,940	317	6.4	307	6.2	37	270	10	3.0	4,623
Women										
16 years and over	87,917	52,343	59.5	50,231	57.1	694	49,538	2,111	4.0	35,575
16 to 19 years	6,003	3,189	53.1	2,861	47.7	45	2,816	329	10.3	2,813
16 to 17 years	3,025	1,253	41.4	1,108	36.6	11	1,097	144	11.5	1,773
18 to 19 years	2,978	1,937	65.0	1,752	58.9	34	1,719	185	9.5	1,041
20 to 24 years	6,944	5,166	74.4	4,863	70.0	75	4,788	304	5.9	1,778
25 to 54 years	48,601	37,350	76.9	36,036	74.1	429	35,607	1,315	3.5	11,251
25 to 34 years	15,759	12,014	76.2	11,501	73.0	133	11,369	513	4.3	3,745
25 to 29 years	7,547	5,845	77.4	5,587	74.0	60	5,527	258	4.4	1,702
30 to 34 years	8,212	6,170	75.1	5,915	72.0	73	5,842	255	4.1	2,043
35 to 44 years	18,261	14,136	77.4	13,623	74.6	133	13,489	514	3.6	4,125
35 to 39 years	9,258	7,055	76.2	6,790	73.3	56	6,734	264	3.7	2,203
40 to 44 years	9,003	7,082	78.7	6,832	75.9	78	6,755	249	3.5	1,921
45 to 54 years	14,582	11,200	76.8	10,912	74.8	163	10,749	288	2.6	3,382
45 to 49 years	7,911	6,275	79.3	6,100	77.1	78	6,022	175	2.8	1,636
50 to 54 years	6,671	4,925	73.8	4,812	72.1	85	4,727	113	2.3	1,746
55 to 64 years	9,880	5,144	52.1	5,023	50.8	103	4,920	121	2.3	4,735
55 to 59 years	5,380	3,342	62.1	3,260	60.6	68	3,192	62	2.5	2,038
60 to 64 years	4,499	1,802	40.0	1,763	39.2	36	1,727	38	2.1	2,698
65 years and over	16,490	1,493	9.1	1,449	8.8	41	1,408	44	2.9	14,997
65 to 69 years	4,413	851	19.3	826	18.7	14	811	29	3.0	3,562
70 to 74 years	4,256	413	9.7	398	9.3	16	382	15	3.6	3,844
75 years and over	7,820	229	2.9	226	2.9	11	215	3	1.2	7,592

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	March 1998									
	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			
BLACK										
16 years and over	24,257	15,855	65.4	14,357	59.2	78	14,279	1,498	9.4	8,401
16 to 19 years	2,428	902	37.2	641	26.4	-	641	261	28.9	1,525
16 to 17 years	1,244	341	27.4	205	16.5	-	205	136	40.0	903
18 to 19 years	1,184	561	47.4	437	36.9	-	437	125	22.2	622
20 to 24 years	2,533	1,741	68.7	1,440	56.8	-	1,440	301	17.3	792
25 to 34 years	14,408	11,760	81.6	10,864	75.4	62	10,802	896	7.6	2,649
25 to 34 years	5,235	4,406	84.2	3,972	75.9	16	3,956	434	9.9	829
25 to 29 years	2,549	2,137	83.8	1,926	75.5	3	1,922	212	9.9	412
30 to 34 years	2,686	2,268	84.5	2,046	76.2	13	2,033	222	9.8	417
35 to 44 years	5,482	4,485	81.8	4,168	76.0	22	4,146	317	7.1	997
35 to 39 years	2,835	2,308	81.4	2,117	74.7	19	2,098	191	8.3	527
40 to 44 years	2,647	2,177	82.2	2,051	77.5	3	2,048	128	5.8	470
45 to 54 years	3,692	2,869	77.7	2,724	73.8	23	2,701	145	5.1	822
45 to 49 years	2,160	1,754	81.2	1,646	76.2	9	1,637	109	6.2	405
50 to 54 years	1,532	1,115	72.8	1,078	70.4	14	1,064	37	3.3	417
55 to 64 years	2,197	1,178	53.6	1,154	52.5	14	1,140	24	2.0	1,020
55 to 59 years	1,194	739	61.9	723	60.6	7	716	16	2.2	454
60 to 64 years	1,003	438	43.7	430	42.9	7	424	8	1.8	565
65 years and over	2,690	275	10.2	259	9.6	2	256	17	6.0	2,415
65 to 69 years	872	137	15.7	131	15.0	2	128	6	4.5	735
70 to 74 years	744	74	10.0	66	8.8	-	66	9	(¹)	670
75 years and over	1,074	64	6.0	62	5.8	-	62	2	(¹)	1,009
Men										
16 years and over	10,871	7,444	68.5	6,734	61.9	69	6,665	710	9.5	3,428
16 to 19 years	1,193	421	35.3	294	24.7	-	294	126	30.0	772
16 to 17 years	624	163	26.1	103	16.5	-	103	60	36.9	461
18 to 19 years	568	258	45.4	192	33.7	-	192	66	25.7	311
20 to 24 years	1,160	817	70.4	671	57.8	-	671	147	17.9	343
25 to 34 years	6,510	5,515	84.7	5,097	78.3	53	5,045	418	7.6	995
25 to 34 years	2,340	2,046	87.4	1,868	79.8	14	1,854	178	8.7	294
25 to 29 years	1,126	973	86.4	879	78.1	3	876	94	9.7	153
30 to 34 years	1,214	1,073	88.4	989	81.5	11	979	84	7.8	141
35 to 44 years	2,505	2,111	84.3	1,958	78.1	20	1,938	153	7.3	394
35 to 39 years	1,290	1,085	84.1	991	76.8	17	974	94	8.7	205
40 to 44 years	1,216	1,026	84.4	967	79.5	3	964	59	5.8	189
45 to 54 years	1,664	1,358	81.6	1,271	76.4	19	1,252	86	6.4	306
45 to 49 years	979	843	86.2	778	79.4	7	771	66	7.8	135
50 to 54 years	685	514	75.0	494	72.0	20	481	21	4.0	171
55 to 64 years	958	549	57.3	540	56.3	14	526	9	1.7	409
55 to 59 years	533	340	63.9	334	62.6	7	326	7	2.0	193
60 to 64 years	426	209	49.1	206	48.5	7	200	3	1.4	217
65 years and over	1,050	141	13.5	131	12.5	2	129	10	7.2	909
65 to 69 years	367	64	17.4	60	16.4	2	58	4	(¹)	303
70 to 74 years	285	41	14.5	35	12.2	-	35	6	(¹)	244
75 years and over	398	36	9.1	36	9.1	-	36	-	-	362
Women										
16 years and over	13,385	8,412	62.8	7,624	57.0	9	7,615	788	9.4	4,974
16 to 19 years	1,235	482	39.0	347	28.1	-	347	135	28.0	753
16 to 17 years	620	178	28.8	102	16.5	-	102	76	42.8	442
18 to 19 years	615	303	49.3	245	39.8	-	245	59	19.3	312
20 to 24 years	1,373	923	67.3	769	56.0	-	769	154	16.7	449
25 to 34 years	7,899	6,244	79.1	5,766	73.0	9	5,757	478	7.7	1,654
25 to 34 years	2,895	2,359	81.5	2,103	72.7	2	2,101	256	10.8	535
25 to 29 years	1,423	1,164	81.8	1,046	73.5	-	1,046	118	10.1	259
30 to 34 years	1,472	1,195	81.2	1,057	71.8	2	1,055	138	11.6	277
35 to 44 years	2,976	2,373	79.7	2,210	74.3	2	2,208	163	6.9	603
35 to 39 years	1,545	1,223	79.1	1,126	72.9	2	1,124	97	7.9	322
40 to 44 years	1,431	1,151	80.4	1,084	75.7	-	1,084	66	5.8	281
45 to 54 years	2,028	1,512	74.6	1,453	71.6	4	1,448	59	3.9	516
45 to 49 years	1,181	911	77.1	868	73.5	2	866	43	4.7	270
50 to 54 years	847	601	71.0	585	69.1	2	583	16	2.7	246
55 to 64 years	1,239	628	50.7	614	49.5	-	614	15	2.3	611
55 to 59 years	661	399	60.4	390	58.9	-	390	10	2.4	262
60 to 64 years	578	229	39.6	224	38.8	-	224	5	2.2	349
65 years and over	1,640	134	8.2	128	7.8	-	128	6	4.8	1,506
65 to 69 years	505	73	14.4	70	13.9	-	70	3	(¹)	432
70 to 74 years	460	33	7.2	31	6.7	-	31	2	(¹)	427
75 years and over	675	28	4.2	26	3.9	-	26	2	(¹)	647

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

and revised population controls used in the household survey.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures

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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
TOTAL								
Civilian noninstitutional population	202,513	204,547	89,604	90,502	97,638	98,534	15,271	15,511
Civilian labor force	135,524	136,967	68,937	69,356	59,160	59,869	7,428	7,742
Percent of population	66.9	67.0	76.9	76.6	60.6	60.8	48.6	49.9
Employed	128,125	130,150	65,502	66,263	56,442	57,316	6,182	6,571
Agriculture	3,166	2,931	2,244	2,066	710	676	212	189
Nonagricultural industries	124,959	127,219	63,257	64,197	55,732	56,639	5,970	6,383
Unemployed	7,399	6,816	3,435	3,093	2,718	2,554	1,246	1,170
Unemployment rate	5.5	5.0	5.0	4.5	4.6	4.3	16.8	15.1
Not in labor force	66,989	67,580	20,667	21,147	38,478	38,664	7,843	7,769
White								
Civilian noninstitutional population	169,569	171,016	76,108	76,764	81,330	81,915	12,131	12,337
Civilian labor force	114,135	114,822	59,000	59,084	48,852	49,153	6,282	6,584
Percent of population	67.3	67.1	77.5	77.0	60.1	60.0	51.8	53.4
Employed	108,745	109,842	56,411	56,751	46,962	47,371	5,373	5,720
Agriculture	3,012	2,776	2,110	1,941	692	649	210	186
Nonagricultural industries	105,733	107,066	54,301	54,810	46,270	46,722	5,162	5,534
Unemployed	5,389	4,980	2,589	2,333	1,891	1,783	910	864
Unemployment rate	4.7	4.3	4.4	3.9	3.9	3.6	14.5	13.1
Not in labor force	55,435	56,194	17,108	17,679	32,478	32,761	5,849	5,753
Black								
Civilian noninstitutional population	23,895	24,257	9,504	9,679	11,967	12,150	2,424	2,428
Civilian labor force	15,325	15,855	6,812	7,023	7,628	7,930	886	902
Percent of population	64.1	65.4	71.7	72.6	63.7	65.3	36.5	37.2
Employed	13,677	14,357	6,149	6,439	6,928	7,277	600	641
Agriculture	94	78	87	69	8	9	-	-
Nonagricultural industries	13,583	14,279	6,062	6,370	6,920	7,268	600	641
Unemployed	1,649	1,498	663	584	700	653	285	261
Unemployment rate	10.8	9.4	9.7	8.3	9.2	8.2	32.2	28.9
Not in labor force	8,569	8,401	2,692	2,655	4,339	4,220	1,538	1,525

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	March 1998									
	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		
TOTAL ENROLLED										
Total, 16 to 24 years	18,284	9,034	49.4	8,053	1,521	6,532	980	197	783	10.9
16 to 19 years	12,493	5,474	43.8	4,707	454	4,253	767	111	655	14.0
20 to 24 years	5,791	3,560	61.5	3,346	1,067	2,279	214	86	128	6.0
High school	9,889	4,025	40.7	3,352	212	3,140	672	93	579	16.7
College	8,395	5,009	59.7	4,701	1,309	3,392	308	104	204	6.1
Full-time students	6,918	3,696	53.4	3,476	578	2,897	220	62	158	6.0
Part-time students	1,477	1,313	88.9	1,225	731	495	88	42	46	6.7
Men, 16 to 24 years	9,074	4,321	47.6	3,730	709	3,021	591	116	475	13.7
16 to 19 years	6,342	2,709	42.7	2,248	220	2,028	461	61	400	17.0
20 to 24 years	2,732	1,612	59.0	1,482	489	993	130	54	75	8.0
High school	5,240	2,103	40.1	1,698	116	1,581	406	50	355	19.3
College	3,833	2,217	57.8	2,032	593	1,440	185	65	120	8.3
Full-time students	3,187	1,624	50.9	1,500	244	1,256	124	39	85	7.6
Part-time students	646	594	91.9	532	349	184	61	26	35	10.3
Women, 16 to 24 years	9,210	4,713	51.2	4,323	812	3,511	390	81	308	8.3
16 to 19 years	6,151	2,765	45.0	2,459	234	2,225	306	50	255	11.1
20 to 24 years	3,059	1,948	63.7	1,864	578	1,286	84	31	53	4.3
High school	4,649	1,921	41.3	1,655	96	1,559	267	43	224	13.9
College	4,562	2,792	61.2	2,669	716	1,952	123	39	84	4.4
Full-time students	3,731	2,072	55.5	1,976	334	1,641	96	23	74	4.7
Part-time students	831	719	86.6	693	382	311	27	16	11	3.7
White										
Total, 16 to 24 years	14,446	7,631	52.8	6,923	1,250	5,673	708	136	572	9.3
16 to 19 years	9,881	4,685	47.4	4,125	388	3,737	560	79	481	11.9
20 to 24 years	4,565	2,946	64.5	2,798	862	1,936	148	57	91	5.0
Men	7,255	3,713	51.2	3,260	599	2,661	453	87	366	12.2
Women	7,191	3,918	54.5	3,663	651	3,012	255	48	207	6.5
High school	7,825	3,460	44.2	2,975	192	2,782	485	73	413	14.0
College	6,621	4,171	63.0	3,948	1,058	2,891	223	63	160	5.3
Full-time students	5,444	3,092	56.8	2,937	474	2,463	156	30	125	5.0
Part-time students	1,177	1,078	91.6	1,011	584	428	67	33	34	6.2
Black										
Total, 16 to 24 years	2,710	961	35.5	740	187	552	222	46	175	23.1
16 to 19 years	1,959	583	29.8	412	51	361	171	22	149	29.3
20 to 24 years	751	378	50.3	327	136	191	51	25	26	13.4
Men	1,277	403	31.6	299	68	230	105	18	87	25.9
Women	1,433	558	38.9	441	119	322	117	28	89	21.0
High school	1,567	422	27.0	268	11	257	154	12	142	36.5
College	1,143	539	47.2	472	176	296	67	34	33	12.5
Full-time students	921	366	39.8	319	72	246	48	26	22	13.0
Part-time students	222	173	77.8	153	104	49	20	8	11	11.4
Hispanic origin										
Total, 16 to 24 years	2,081	909	43.7	747	178	569	161	42	119	17.8
16 to 19 years	1,487	521	35.1	392	39	353	130	27	103	24.9
20 to 24 years	594	387	65.2	356	139	216	32	16	16	8.2
Men	1,045	438	41.9	333	83	250	105	24	80	23.9
Women	1,036	471	45.4	414	95	319	57	18	39	12.0
High school	1,344	439	32.7	321	33	288	119	31	88	27.0
College	738	469	63.7	427	146	281	43	11	31	9.1
Full-time students	522	282	54.1	253	48	205	30	11	18	10.5
Part-time students	216	187	86.9	174	98	76	13	-	13	7.0

See footnotes at end of table.

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	March 1998									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
Total	Full time			Part time	Total	Looking for full-time work	Looking for part-time work			
TOTAL NOT ENROLLED										
Total, 16 to 24 years	14,729	12,112	82.2	10,787	8,969	1,818	1,325	1,218	107	10.9
16 to 19 years	3,018	2,268	75.1	1,864	1,385	479	403	357	46	17.8
20 to 24 years	11,711	9,844	84.1	8,923	7,583	1,339	921	861	60	9.4
Less than a high school diploma	3,581	2,452	68.5	1,925	1,530	395	527	481	46	21.5
High school graduates, no college	6,454	5,388	83.5	4,794	3,957	837	594	555	40	11.0
Less than a bachelor's degree	3,310	2,955	89.3	2,780	2,308	471	175	154	21	5.9
College graduates	1,384	1,317	95.1	1,288	1,173	115	28	28	-	2.1
Men, 16 to 24 years	7,560	6,653	88.0	5,909	5,168	741	744	710	34	11.2
16 to 19 years	1,561	1,220	78.1	995	786	209	225	208	16	18.4
20 to 24 years	5,998	5,433	90.6	4,914	4,382	532	519	501	17	9.6
Less than a high school diploma	2,022	1,618	80.0	1,296	1,085	210	323	310	13	19.9
High school graduates, no college	3,343	3,001	89.8	2,688	2,380	308	312	301	11	10.4
Less than a bachelor's degree	1,629	1,499	92.0	1,407	1,219	188	92	82	10	6.1
College graduates	565	535	94.6	518	484	34	17	17	-	3.2
Women, 16 to 24 years	7,169	5,459	76.1	4,878	3,801	1,077	581	508	73	10.6
16 to 19 years	1,456	1,048	71.9	869	599	270	179	149	30	17.1
20 to 24 years	5,713	4,411	77.2	4,009	3,202	807	402	359	43	9.1
Less than a high school diploma	1,559	834	53.5	630	445	185	204	171	33	24.5
High school graduates, no college	3,111	2,387	76.7	2,106	1,577	528	282	253	28	11.8
Less than a bachelor's degree	1,680	1,456	86.6	1,372	1,089	283	84	72	11	5.8
College graduates	819	782	95.5	771	690	81	11	11	-	1.4
White										
Total, 16 to 24 years	11,975	10,039	83.8	9,108	7,634	1,474	931	865	66	9.3
16 to 19 years	2,457	1,899	77.3	1,595	1,209	386	304	270	34	16.0
20 to 24 years	9,519	8,140	85.5	7,513	6,425	1,088	627	595	32	7.7
Men	6,220	5,602	90.1	5,048	4,445	603	554	536	18	9.9
Women	5,755	4,438	77.1	4,060	3,189	871	378	329	48	8.5
Less than a high school diploma	2,847	1,986	69.8	1,637	1,325	312	349	326	23	17.6
High school graduates, no college	5,142	4,377	85.1	3,962	3,312	650	415	386	28	9.5
Less than a bachelor's degree	2,771	2,505	90.4	2,365	1,968	398	139	125	14	5.6
College graduates	1,215	1,172	96.5	1,144	1,030	114	28	28	-	2.4
Black										
Total, 16 to 24 years	2,251	1,682	74.7	1,342	1,068	273	340	310	30	20.2
16 to 19 years	469	319	68.1	229	145	84	90	80	10	28.2
20 to 24 years	1,782	1,362	76.5	1,113	924	189	250	231	19	18.3
Men	1,076	834	77.6	666	564	102	168	155	13	20.2
Women	1,175	847	72.1	675	505	171	172	156	16	20.3
Less than a high school diploma	642	407	63.4	246	180	66	161	145	16	39.6
High school graduates, no college	1,101	838	76.1	687	530	156	151	140	11	18.0
Less than a bachelor's degree	423	357	84.3	329	278	50	28	26	2	7.8
College graduates	85	80	94.5	80	79	1	-	-	-	-
Hispanic origin										
Total, 16 to 24 years	2,802	2,136	76.2	1,866	1,582	283	270	250	20	12.6
16 to 19 years	693	484	69.8	373	276	97	110	95	16	22.8
20 to 24 years	2,109	1,652	78.3	1,492	1,307	186	160	155	5	9.7
Men	1,566	1,376	87.8	1,218	1,073	145	157	154	3	11.4
Women	1,236	760	61.5	647	509	138	113	96	17	14.8
Less than a high school diploma	1,373	947	69.0	777	659	118	170	152	18	17.9
High school graduates, no college	929	765	82.4	688	579	109	77	75	2	10.1
Less than a bachelor's degree	414	346	83.5	327	277	50	19	19	-	5.5
College graduates	86	78	90.9	74	68	6	4	4	-	5.0

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 1998, data reflect new composite estimation procedures and 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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
TOTAL												
Civilian noninstitutional population ...	169,886	171,534	80,961	81,772	88,925	89,761	143,499	144,594	18,988	19,296	15,406	15,968
Civilian labor force	114,759	115,822	61,933	62,311	52,826	53,510	96,943	97,152	12,619	13,212	10,776	11,180
Percent of population	67.6	67.5	76.5	76.2	59.4	59.6	67.6	67.2	66.5	68.5	69.9	70.0
Employed	109,850	111,310	59,199	59,867	50,651	51,443	93,251	93,811	11,644	12,276	10,010	10,519
Employment-population ratio	64.7	64.9	73.1	73.2	57.0	57.3	65.0	64.9	61.3	63.6	65.0	65.9
Unemployed	4,909	4,512	2,734	2,444	2,175	2,067	3,691	3,341	976	937	766	662
Unemployment rate	4.3	3.9	4.4	3.9	4.1	3.9	3.8	3.4	7.7	7.1	7.1	5.9
Less than a high school diploma												
Civilian noninstitutional population ...	30,190	29,251	14,402	13,932	15,789	15,319	24,161	23,357	4,695	4,618	6,936	6,925
Civilian labor force	12,813	12,568	8,025	7,716	4,788	4,852	10,353	9,979	1,850	1,974	4,019	4,053
Percent of population	42.4	43.0	55.7	55.4	30.3	31.7	42.9	42.7	39.4	42.7	57.9	58.5
Employed	11,591	11,535	7,299	7,133	4,291	4,402	9,449	9,255	1,582	1,728	3,630	3,707
Employment-population ratio	38.4	39.4	50.7	51.2	27.2	28.7	39.1	39.6	33.7	37.4	52.3	53.5
Unemployed	1,222	1,033	726	583	497	450	905	724	268	246	389	347
Unemployment rate	9.5	8.2	9.0	7.6	10.4	9.3	8.7	7.3	14.5	12.5	9.7	8.6
High school graduates, no college												
Civilian noninstitutional population ...	57,148	57,885	25,864	26,263	31,283	31,622	48,474	49,036	6,823	6,910	3,972	4,325
Civilian labor force	37,706	37,873	19,750	19,927	17,956	17,946	31,689	31,625	4,700	4,888	3,007	3,242
Percent of population	66.0	65.4	76.4	75.9	57.4	56.8	65.4	64.5	68.9	70.7	75.7	75.0
Employed	35,873	36,113	18,721	18,951	17,153	17,162	30,312	30,326	4,329	4,492	2,813	3,056
Employment-population ratio	62.8	62.4	72.4	72.2	54.8	54.3	62.5	61.8	63.4	65.0	70.8	70.7
Unemployed	1,832	1,760	1,029	975	803	785	1,378	1,298	371	396	194	186
Unemployment rate	4.9	4.6	5.2	4.9	4.5	4.4	4.3	4.1	7.9	8.1	6.5	5.7
Less than a bachelor's degree¹												
Civilian noninstitutional population ...	41,675	42,313	19,231	19,636	22,443	22,677	35,263	35,866	4,912	4,888	2,894	2,881
Civilian labor force	31,239	31,424	15,875	15,943	15,364	15,481	26,203	26,329	3,933	3,921	2,374	2,302
Percent of population	75.0	74.3	82.5	81.2	68.5	68.3	74.3	73.4	80.1	80.2	82.1	79.9
Employed	30,047	30,319	15,257	15,386	14,790	14,933	25,307	25,515	3,695	3,676	2,231	2,208
Employment-population ratio	72.1	71.7	79.3	78.4	65.9	65.8	71.8	71.1	75.2	75.2	77.1	76.6
Unemployed	1,192	1,105	618	557	574	548	896	814	239	245	143	94
Unemployment rate	3.8	3.5	3.9	3.5	3.7	3.5	3.4	3.1	6.1	6.3	6.0	4.1
Some college, no degree												
Civilian noninstitutional population ...	29,273	29,548	13,936	14,038	15,337	15,510	24,667	24,842	3,622	3,681	2,072	2,125
Civilian labor force	21,301	21,232	11,241	11,067	10,060	10,165	17,753	17,579	2,854	2,902	1,670	1,663
Percent of population	72.8	71.9	80.7	78.8	65.6	65.5	72.0	70.8	78.8	78.8	80.6	78.3
Employed	20,411	20,430	10,768	10,660	9,642	9,769	17,088	17,002	2,673	2,707	1,576	1,591
Employment-population ratio	69.7	69.1	77.3	75.9	62.9	63.0	69.3	68.4	73.8	73.5	76.1	74.9
Unemployed	891	803	472	407	418	396	665	577	181	195	94	72
Unemployment rate	4.2	3.8	4.2	3.7	4.2	3.9	3.7	3.3	6.4	6.7	5.6	4.3
Associate degree												
Civilian noninstitutional population ...	12,402	12,766	5,296	5,598	7,106	7,167	10,596	11,024	1,290	1,207	822	757
Civilian labor force	9,938	10,191	4,635	4,875	5,303	5,316	8,449	8,750	1,079	1,019	704	639
Percent of population	80.1	79.8	87.5	87.1	74.6	74.2	79.7	79.4	83.7	84.5	85.7	84.5
Employed	9,636	9,889	4,489	4,726	5,148	5,163	8,219	8,513	1,022	969	655	617
Employment-population ratio	77.7	77.5	84.8	84.4	72.4	72.0	77.6	77.2	79.2	80.3	79.7	81.6
Unemployed	301	302	146	150	156	153	230	236	57	51	49	22
Unemployment rate	3.0	3.0	3.1	3.1	2.9	2.9	2.7	2.7	5.3	5.0	7.0	3.4
College graduates												
Civilian noninstitutional population ...	40,874	42,085	21,464	21,941	19,410	20,144	35,601	36,336	2,558	2,880	1,605	1,837
Civilian labor force	33,001	33,957	18,282	18,726	14,719	15,231	28,697	29,219	2,136	2,429	1,376	1,583
Percent of population	80.7	80.7	85.2	85.3	75.8	75.6	80.6	80.4	83.5	84.4	85.8	86.2
Employed	32,339	33,344	17,921	18,398	14,417	14,946	28,184	28,715	2,037	2,380	1,336	1,548
Employment-population ratio	79.1	79.2	83.5	83.9	74.3	74.2	79.2	79.0	79.6	82.6	83.3	84.2
Unemployed	663	614	361	329	302	285	513	504	98	49	40	35
Unemployment rate	2.0	1.8	2.0	1.8	2.0	1.9	1.8	1.7	4.6	2.0	2.9	2.2

¹ 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 1998, data reflect new composite estimation procedures and 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	March 1998									
	Employed ¹							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 ²				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				
TOTAL										
Total, 16 years and over	105,978	93,404	9,426	3,148	24,172	2,770	20,012	1,390	5,364	1,453
16 to 19 years	1,839	1,522	254	64	4,732	235	4,304	193	468	702
16 to 17 years	192	149	35	7	2,315	51	2,178	86	103	451
18 to 19 years	1,648	1,372	218	57	2,417	184	2,126	107	365	250
20 years and over	104,139	91,882	9,173	3,084	19,440	2,535	15,708	1,197	4,895	751
20 to 24 years	8,650	7,616	817	217	3,619	528	2,911	179	947	188
25 years and over	95,488	84,266	8,356	2,867	15,822	2,007	12,797	1,018	3,949	563
25 to 54 years	83,222	73,821	7,111	2,290	11,604	1,782	9,111	711	3,574	412
55 years and over	12,266	10,445	1,245	577	4,218	225	3,686	307	375	151
Men, 16 years and over	61,641	55,210	4,791	1,640	7,865	1,203	6,256	406	3,121	657
16 to 19 years	1,006	849	129	28	2,237	123	2,037	77	270	416
20 years and over	60,635	54,361	4,662	1,612	5,628	1,080	4,219	329	2,852	241
20 to 24 years	4,870	4,345	427	99	1,525	249	1,211	65	556	93
25 years and over	55,764	50,017	4,235	1,513	4,103	832	3,008	264	2,296	149
25 to 54 years	48,467	43,787	3,520	1,160	2,397	728	1,534	135	2,046	77
55 years and over	7,298	6,229	715	353	1,706	103	1,474	128	250	72
Women, 16 years and over	44,337	38,194	4,636	1,508	16,307	1,567	13,756	984	2,242	796
16 to 19 years	833	673	124	36	2,495	112	2,267	116	199	286
20 years and over	43,504	37,521	4,511	1,471	13,812	1,455	11,489	868	2,044	510
20 to 24 years	3,780	3,272	390	118	2,093	279	1,700	114	391	96
25 years and over	39,724	34,249	4,121	1,354	11,719	1,176	9,789	754	1,653	415
25 to 54 years	34,756	30,033	3,592	1,131	9,206	1,054	7,577	576	1,528	335
55 years and over	4,968	4,216	529	223	2,513	122	2,212	178	125	79
White										
Men, 16 years and over	52,828	47,181	4,238	1,408	6,783	952	5,485	346	2,365	503
16 to 19 years	873	730	121	22	1,987	108	1,814	65	216	319
20 years and over	51,955	46,451	4,118	1,386	4,797	844	3,671	281	2,149	184
20 to 24 years	4,171	3,705	375	90	1,278	199	1,024	54	407	65
25 years and over	47,784	42,746	3,742	1,296	3,519	645	2,647	227	1,742	119
25 to 54 years	41,322	37,257	3,083	982	1,994	568	1,313	113	1,523	57
55 years and over	6,462	5,489	659	314	1,525	78	1,334	114	219	63
Women, 16 years and over	36,041	30,983	3,798	1,260	14,191	1,187	12,148	856	1,510	601
16 to 19 years	724	589	109	27	2,136	91	1,953	93	133	196
20 years and over	35,316	30,394	3,688	1,233	12,054	1,096	10,195	764	1,377	405
20 to 24 years	3,116	2,728	304	85	1,746	210	1,437	99	245	59
25 years and over	32,200	27,667	3,385	1,148	10,308	886	8,758	664	1,133	347
25 to 54 years	27,967	24,079	2,938	950	8,069	793	6,771	505	1,042	273
55 years and over	4,233	3,588	447	199	2,239	93	1,987	159	91	74
Black										
Men, 16 years and over	6,049	5,477	406	166	685	170	473	42	592	119
16 to 19 years	108	102	4	2	186	13	165	8	45	81
20 years and over	5,940	5,374	402	164	499	157	308	34	546	38
20 to 24 years	524	473	42	9	147	39	100	8	128	19
25 years and over	5,417	4,902	360	155	352	118	208	26	419	19
25 to 54 years	4,857	4,420	315	123	240	108	117	15	402	16
55 years and over	560	482	45	32	112	10	91	11	17	3
Women, 16 years and over	6,168	5,320	650	198	1,455	323	1,046	86	628	160
16 to 19 years	88	64	14	9	259	21	220	19	56	79
20 years and over	6,081	5,256	636	189	1,196	302	826	67	572	81
20 to 24 years	536	440	69	27	234	55	171	8	128	26
25 years and over	5,545	4,816	567	162	962	247	655	60	444	55
25 to 54 years	5,000	4,354	504	142	767	226	493	48	427	51
55 years and over	545	462	63	20	196	22	162	12	17	4

¹ 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.

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

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
Total	128,125	130,150	68,573	69,506	65,502	66,263	59,552	60,644	56,442	57,316
Managerial and professional specialty	37,811	38,661	19,227	19,534	19,103	19,423	18,584	19,127	18,459	18,969
Executive, administrative, and managerial	18,341	18,586	10,264	10,134	10,220	10,081	8,077	8,452	8,038	8,378
Officials and administrators, public administration	635	665	355	389	355	389	280	276	280	274
Other executive, administrative, and managerial	13,190	13,307	8,057	7,813	8,019	7,762	5,133	5,494	5,099	5,429
Management-related occupations	4,516	4,614	1,851	1,931	1,846	1,930	2,664	2,683	2,659	2,674
Professional specialty	19,470	20,075	8,963	9,400	8,883	9,342	10,507	10,675	10,421	10,591
Engineers	2,054	2,039	1,823	1,844	1,823	1,844	231	194	231	194
Mathematical and computer scientists	1,540	1,710	1,047	1,227	1,033	1,227	492	483	492	483
Natural scientists	505	498	358	343	358	343	147	155	147	155
Health diagnosing occupations	986	1,047	744	774	744	774	242	273	242	273
Health assessment and treating occupations	2,867	2,933	380	464	376	464	2,487	2,469	2,482	2,469
Teachers, college and university	958	979	542	567	529	558	416	412	404	408
Teachers, except college and university	4,887	5,095	1,154	1,249	1,144	1,232	3,733	3,846	3,702	3,806
Lawyers and judges	891	910	648	658	648	658	243	252	243	248
Other professional specialty occupations	4,782	4,865	2,267	2,274	2,228	2,241	2,515	2,591	2,476	2,555
Technical, sales, and administrative support	38,044	38,577	13,743	13,787	13,039	12,997	24,301	24,790	22,632	23,044
Technicians and related support	4,126	4,320	2,003	2,005	1,962	1,948	2,122	2,315	2,094	2,284
Health technologists and technicians	1,709	1,791	366	313	365	303	1,343	1,478	1,328	1,466
Engineering and science technicians	1,171	1,345	919	1,005	889	975	252	340	242	329
Technicians, except health, engineering, and science	1,246	1,184	718	687	708	670	528	497	524	488
Sales occupations	15,554	15,605	7,812	7,846	7,357	7,326	7,741	7,759	6,709	6,603
Supervisors and proprietors	4,678	4,635	2,899	2,820	2,874	2,809	1,778	1,815	1,753	1,785
Sales representatives, finance and business services	2,535	2,549	1,451	1,427	1,426	1,399	1,084	1,122	1,057	1,079
Sales representatives, commodities, except retail	1,495	1,559	1,166	1,147	1,164	1,147	328	411	327	402
Sales workers, retail and personal services	6,743	6,747	2,277	2,425	1,875	1,946	4,466	4,322	3,489	3,260
Sales-related occupations	104	115	19	27	18	25	85	88	83	77
Administrative support, including clerical	18,364	18,652	3,927	3,936	3,720	3,723	14,437	14,716	13,828	14,157
Supervisors	692	631	295	251	288	245	397	380	396	377
Computer equipment operators	426	341	182	178	175	170	244	163	241	158
Secretaries, stenographers, and typists	3,610	3,627	87	85	77	85	3,522	3,542	3,407	3,441
Financial records processing	2,154	2,219	190	158	184	155	1,965	2,061	1,933	2,043
Mail and message distributing	979	1,037	597	607	584	591	381	430	371	420
Other administrative support, including clerical	10,503	10,797	2,576	2,657	2,413	2,476	7,928	8,140	7,480	7,719
Service occupations	17,275	17,698	6,822	7,062	5,947	6,152	10,453	10,637	9,375	9,508
Private household	767	878	19	35	16	35	748	844	667	751
Protective service	2,209	2,348	1,810	1,930	1,768	1,910	399	418	379	405
Service, except private household and protective	14,299	14,471	4,993	5,097	4,162	4,207	9,306	9,374	8,330	8,352
Food service	5,826	5,967	2,467	2,554	1,828	1,820	3,359	3,412	2,664	2,711
Health service	2,451	2,447	269	320	261	303	2,182	2,126	2,121	2,030
Cleaning and building service	3,081	3,159	1,722	1,779	1,597	1,671	1,358	1,381	1,299	1,324
Personal service	2,941	2,898	535	444	476	414	2,406	2,455	2,246	2,286
Precision production, craft, and repair	13,887	14,421	12,700	13,294	12,451	12,999	1,187	1,128	1,171	1,113
Mechanics and repairers	4,582	4,743	4,402	4,552	4,317	4,455	180	191	177	186
Construction trades	5,331	5,568	5,203	5,479	5,090	5,331	128	90	125	84
Other precision production, craft, and repair	3,974	4,110	3,095	3,264	3,044	3,213	879	847	870	843
Operators, fabricators, and laborers	17,931	17,831	13,512	13,449	12,558	12,493	4,419	4,382	4,241	4,137
Machine operators, assemblers, and inspectors	7,980	7,815	4,969	4,917	4,791	4,716	3,010	2,898	2,929	2,809
Transportation and material moving occupations	5,210	5,178	4,731	4,632	4,641	4,528	479	546	463	523
Motor vehicle operators	3,917	3,963	3,497	3,474	3,438	3,389	419	489	406	465
Other transportation and material moving occupations	1,293	1,215	1,234	1,158	1,203	1,139	60	57	56	57
Handlers, equipment cleaners, helpers, and laborers	4,742	4,838	3,812	3,900	3,125	3,249	930	937	849	805
Construction laborers	704	702	679	678	620	629	25	24	25	19
Other handlers, equipment cleaners, helpers, and laborers	4,038	4,136	3,133	3,222	2,505	2,620	905	913	825	785
Farming, forestry, and fishing	3,177	2,962	2,569	2,381	2,403	2,200	608	581	564	545
Farm operators and managers	1,259	1,104	958	855	933	849	301	249	293	249
Other farming, forestry, and fishing occupations	1,918	1,858	1,611	1,526	1,471	1,350	307	332	271	296

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
TOTAL						
Total, 16 years and over (thousands)	128,125	130,150	68,573	69,506	59,552	60,644
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	29.5	29.7	28.0	28.1	31.2	31.5
Executive, administrative, and managerial	14.3	14.3	15.0	14.6	13.6	13.9
Professional specialty	15.2	15.4	13.1	13.5	17.6	17.6
Technical, sales, and administrative support	29.7	29.6	20.0	19.8	40.8	40.9
Technicians and related support	3.2	3.3	2.9	2.9	3.6	3.8
Sales occupations	12.1	12.0	11.4	11.3	13.0	12.8
Administrative support, including clerical	14.3	14.3	5.7	5.7	24.2	24.3
Service occupations	13.5	13.6	9.9	10.2	17.6	17.5
Private household .....	.6	.7	(¹)	-	1.3	1.4
Protective service	1.7	1.8	2.6	2.8	.7	.7
Service, except private household and protective	11.2	11.1	7.3	7.3	15.6	15.5
Precision production, craft, and repair	10.8	11.1	18.5	19.1	2.0	1.9
Operators, fabricators, and laborers	14.0	13.7	19.7	19.3	7.4	7.2
Machine operators, assemblers, and inspectors	6.2	6.0	7.2	7.1	5.1	4.8
Transportation and material moving occupations	4.1	4.0	6.9	6.7	.8	.9
Handlers, equipment cleaners, helpers, and laborers	3.7	3.7	5.6	5.6	1.6	1.5
Farming, forestry, and fishing	2.5	2.3	3.7	3.4	1.0	1.0
White						
Total, 16 years and over (thousands)	108,745	109,842	59,157	59,611	49,589	50,231
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	30.7	30.8	29.0	29.1	32.7	32.8
Executive, administrative, and managerial	15.1	15.1	15.8	15.4	14.3	14.7
Professional specialty	15.6	15.7	13.2	13.7	18.4	18.1
Technical, sales, and administrative support	29.7	29.6	20.0	19.7	41.3	41.2
Technicians and related support	3.2	3.3	2.9	2.9	3.6	3.9
Sales occupations	12.5	12.3	11.9	11.6	13.3	13.1
Administrative support, including clerical	14.0	14.0	5.3	5.3	24.4	24.3
Service occupations	12.3	12.6	9.0	9.3	16.3	16.5
Private household .....	.6	.7	(¹)	.1	1.2	1.4
Protective service	1.6	1.7	2.5	2.6	.5	.5
Service, except private household and protective	10.2	10.3	6.5	6.6	14.5	14.6
Precision production, craft, and repair	11.3	11.6	19.1	19.9	1.9	1.7
Operators, fabricators, and laborers	13.2	12.9	18.8	18.2	6.6	6.7
Machine operators, assemblers, and inspectors	5.7	5.6	6.9	6.7	4.3	4.3
Transportation and material moving occupations	4.0	3.8	6.7	6.2	.8	.9
Handlers, equipment cleaners, helpers, and laborers	3.5	3.6	5.2	5.3	1.5	1.5
Farming, forestry, and fishing	2.7	2.5	4.0	3.7	1.2	1.1
Black						
Total, 16 years and over (thousands)	13,677	14,357	6,383	6,734	7,293	7,624
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	19.0	20.5	16.1	17.1	21.5	23.5
Executive, administrative, and managerial	8.5	8.5	8.2	7.7	8.7	9.3
Professional specialty	10.5	12.0	7.9	9.4	12.8	14.2
Technical, sales, and administrative support	29.7	29.9	19.1	19.2	38.9	39.4
Technicians and related support	3.0	3.0	3.0	2.6	3.0	3.3
Sales occupations	8.9	9.7	6.9	8.5	10.7	10.9
Administrative support, including clerical	17.7	17.2	9.2	8.2	25.2	25.2
Service occupations	22.1	20.6	17.6	16.0	26.1	24.7
Private household .....	.9	.8	(¹)	-	1.6	1.5
Protective service	2.9	3.2	4.5	4.7	1.5	1.9
Service, except private household and protective	18.3	16.6	13.1	11.3	22.9	21.3
Precision production, craft, and repair	8.5	8.1	15.9	14.9	2.1	2.0
Operators, fabricators, and laborers	19.8	20.2	29.5	31.5	11.3	10.2
Machine operators, assemblers, and inspectors	9.0	8.8	10.0	10.5	8.2	7.4
Transportation and material moving occupations	5.6	6.0	10.7	11.4	1.2	1.2
Handlers, equipment cleaners, helpers, and laborers	5.2	5.4	8.9	9.6	1.9	1.6
Farming, forestry, and fishing .....	.9	.7	1.7	1.2	.1	.2

¹ Less than 0.05 percent.

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-21. Employed persons by industry and occupation

(In thousands)

Industry	March 1998												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	2,931	88	88	54	7	117	-	13	35	28	20	5	2,476
Mining	597	100	47	22	6	42	-	11	236	26	96	10	3
Construction	8,180	1,272	123	47	43	422	-	22	4,852	81	512	791	14
Manufacturing	20,660	2,961	1,981	652	779	2,028	-	297	4,015	6,220	708	983	37
Durable goods	12,511	1,808	1,301	441	302	1,186	-	154	2,812	3,588	377	505	37
Nondurable goods	8,149	1,153	680	211	476	842	-	142	1,203	2,631	331	478	-
Transportation and public utilities	9,367	1,314	585	316	260	2,379	-	324	1,271	161	2,193	556	10
Wholesale and retail trade	26,787	2,478	577	245	11,229	2,187	-	5,072	1,532	401	983	1,995	87
Wholesale trade	4,848	607	101	39	1,972	756	-	57	347	137	406	373	55
Retail trade	21,938	1,871	476	206	9,257	1,432	-	5,016	1,185	264	577	1,622	33
Finance, insurance, and real estate	8,647	2,485	350	174	2,083	2,980	-	324	184	6	18	4	39
Services	47,281	6,694	15,389	2,599	1,186	7,093	878	9,065	2,151	860	610	478	278
Private households	1,015	-	10	1	-	10	878	73	1	-	12	10	19
Other service industries	46,266	6,694	15,378	2,597	1,186	7,083	-	8,992	2,150	860	598	468	258
Professional services	31,825	4,115	13,385	2,237	203	5,145	-	5,502	493	251	336	96	62
Public administration	5,701	1,194	936	210	12	1,404	-	1,693	147	34	38	16	18

¹ Includes protective service, not shown separately.

procedures and revised population controls used in the household survey.

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(In thousands)

Age and sex	March 1998									
	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	1,733	1,168	30	118,294	100,005	1,010	98,994	18,289	8,819	106
16 to 19 years	170	3	16	6,330	6,078	110	5,969	252	43	10
16 to 17 years	72	3	4	2,396	2,337	68	2,269	59	31	1
18 to 19 years	98	-	12	3,934	3,741	41	3,699	193	12	9
20 to 24 years	267	29	-	11,728	10,660	98	10,562	1,068	239	7
25 to 34 years	497	156	5	29,324	25,683	146	25,537	3,641	1,466	21
35 to 44 years	374	263	7	32,645	27,218	242	26,975	5,427	2,735	24
45 to 54 years	256	311	-	24,412	19,140	194	18,946	5,272	2,301	31
55 to 64 years	127	239	-	11,041	8,883	116	8,767	2,159	1,396	9
65 years and over	44	167	3	2,814	2,343	105	2,239	470	639	6
Men, 16 years and over	1,322	867	19	61,889	53,850	78	53,772	8,038	5,376	34
16 to 19 years	126	3	12	3,061	2,958	11	2,947	103	31	10
16 to 17 years	62	3	1	1,168	1,141	7	1,134	27	21	1
18 to 19 years	64	-	11	1,893	1,817	4	1,813	76	9	9
20 to 24 years	199	21	-	6,039	5,607	5	5,602	432	133	4
25 to 34 years	396	120	3	15,726	14,133	14	14,119	1,592	838	6
35 to 44 years	293	205	4	17,320	14,947	9	14,938	2,374	1,574	4
45 to 54 years	180	216	-	12,529	10,236	16	10,220	2,293	1,447	3
55 to 64 years	90	168	-	5,758	4,729	11	4,718	1,029	935	4
65 years and over	38	134	-	1,456	1,241	12	1,228	215	419	3
Women, 16 years and over	412	301	11	56,405	46,154	932	45,222	10,251	3,443	73
16 to 19 years	44	-	3	3,269	3,120	98	3,022	149	12	-
16 to 17 years	11	-	3	1,228	1,196	61	1,135	32	10	-
18 to 19 years	33	-	-	2,041	1,924	37	1,886	117	2	-
20 to 24 years	67	8	-	5,689	5,053	93	4,960	636	106	3
25 to 34 years	101	36	2	13,599	11,550	132	11,418	2,049	629	14
35 to 44 years	81	58	3	15,325	12,271	234	12,037	3,054	1,161	19
45 to 54 years	75	95	-	11,882	8,904	178	8,726	2,978	853	27
55 to 64 years	36	71	-	5,283	4,154	105	4,048	1,129	461	6
65 years and over	7	33	3	1,358	1,102	92	1,010	256	221	3

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	March 1998					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	125,613	2,756	122,857	100.0	100.0	100.0
1 to 34 hours	31,282	884	30,399	24.9	32.1	24.7
1 to 4 hours	1,242	52	1,190	1.0	1.9	1.0
5 to 14 hours	5,310	211	5,099	4.2	7.7	4.2
15 to 29 hours	15,780	462	15,318	12.6	16.8	12.5
30 to 34 hours	8,950	159	8,792	7.1	5.8	7.2
35 hours and over	94,330	1,872	92,458	75.1	67.9	75.3
35 to 39 hours	9,123	168	8,955	7.3	6.1	7.3
40 hours	44,709	669	44,040	35.6	24.3	35.8
41 hours and over	40,499	1,036	39,463	32.2	37.6	32.1
41 to 48 hours	14,965	255	14,710	11.9	9.3	12.0
49 to 59 hours	15,049	329	14,719	12.0	12.0	12.0
60 hours and over	10,485	451	10,034	8.3	16.4	8.2
Average hours, total at work	39.3	39.9	39.3	-	-	-
Average hours, persons who usually work full time	43.5	46.2	43.4	-	-	-

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	March 1998					
	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	31,282	9,426	21,856	30,399	9,132	21,267
Economic reasons	4,011	1,416	2,596	3,834	1,304	2,530
Slack work or business conditions	2,300	1,217	1,082	2,166	1,128	1,039
Could only find part-time work	1,467	-	1,467	1,448	-	1,448
Seasonal work	121	74	47	96	52	44
Job started or ended during week	124	124	-	124	124	-
Noneconomic reasons	27,271	8,011	19,260	26,564	7,828	18,736
Child-care problems	667	79	588	653	76	577
Other family or personal obligations	6,117	760	5,357	5,964	750	5,215
Health or medical limitations	810	-	810	785	-	785
In school or training	7,007	70	6,937	6,877	69	6,809
Retired or Social Security limit on earnings	1,816	-	1,816	1,711	-	1,711
Vacation or personal day	2,826	2,826	-	2,778	2,778	-
Holiday, legal or religious	52	52	-	52	52	-
Weather-related curtailment	1,181	1,181	-	1,106	1,106	-
All other reasons	6,795	3,043	3,752	6,637	2,998	3,639
Average hours:						
Economic reasons	23.1	23.8	22.7	23.2	24.1	22.8
Other reasons	21.0	25.2	19.3	21.1	25.2	19.3

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	March 1998							
	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	122,857	30,399	3,834	7,828	18,736	92,458	39.3	43.4
Wage and salary workers	114,453	27,502	3,371	7,229	16,902	86,951	39.3	43.2
Mining	554	32	7	17	9	522	49.7	50.1
Construction	6,385	1,337	333	657	346	5,048	39.9	41.4
Manufacturing	19,761	2,358	358	1,228	771	17,403	42.7	43.7
Durable goods	12,024	1,350	164	808	379	10,674	43.2	44.0
Nondurable goods	7,736	1,008	195	421	393	6,729	42.0	43.4
Transportation and public utilities	8,601	1,346	216	553	577	7,255	42.5	44.6
Wholesale and retail trade	24,375	8,349	1,071	1,008	6,270	16,026	36.8	43.7
Finance, insurance, and real estate	7,831	1,344	96	500	748	6,487	40.5	42.8
Service industries	41,359	11,918	1,234	2,748	7,936	29,441	37.9	42.9
Private households	980	612	86	38	488	367	28.7	43.8
All other industries	40,379	11,305	1,148	2,710	7,448	29,074	38.1	42.8
Public administration	5,586	818	55	518	245	4,768	41.1	42.3
Self-employed workers	8,297	2,851	463	585	1,802	5,447	38.8	45.8
Unpaid family workers	106	46	1	14	32	60	40.2	(¹)

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

procedures and revised population controls used in the household survey.

NOTE: Beginning in January 1998, data reflect new composite estimation

**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	March 1998							
	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								
Total, 16 years and over	122,857	30,399	3,834	7,828	18,736	92,458	39.3	43.4
16 to 19 years	6,137	4,608	272	201	4,135	1,529	23.6	39.1
16 to 17 years	2,343	2,177	59	24	2,094	166	17.6	38.6
18 to 19 years	3,794	2,432	213	177	2,041	1,362	27.3	39.2
20 years and over	116,720	25,790	3,562	7,627	14,602	90,929	40.1	43.5
20 to 24 years	11,596	4,014	600	658	2,757	7,582	35.6	41.6
25 years and over	105,124	21,776	2,962	6,969	11,845	83,348	40.6	43.6
25 to 54 years	90,053	17,059	2,579	5,992	8,488	72,994	41.2	43.8
55 years and over	15,071	4,718	383	978	3,357	10,354	37.2	42.8
Men, 16 years and over	65,366	11,362	1,884	3,749	5,729	54,004	42.2	44.9
16 to 19 years	3,000	2,159	138	102	1,920	841	24.7	39.9
16 to 17 years	1,151	1,056	43	6	1,007	95	18.4	40.7
18 to 19 years	1,849	1,104	95	96	913	745	28.6	39.8
20 years and over	62,366	9,203	1,746	3,648	3,809	53,163	43.1	45.0
20 to 24 years	6,023	1,738	285	332	1,121	4,285	37.8	42.7
25 years and over	56,343	7,464	1,461	3,315	2,688	48,878	43.7	45.2
25 to 54 years	48,221	5,419	1,264	2,770	1,385	42,802	44.3	45.4
55 years and over	8,122	2,045	197	545	1,303	6,076	39.6	43.8
Women, 16 years and over	57,491	19,037	1,950	4,079	13,008	38,454	35.9	41.4
16 to 19 years	3,137	2,449	135	99	2,215	688	22.5	38.1
16 to 17 years	1,192	1,121	16	18	1,087	71	16.7	35.8
18 to 19 years	1,945	1,328	118	82	1,128	617	26.0	38.4
20 years and over	54,354	16,588	1,816	3,979	10,793	37,766	36.7	41.4
20 to 24 years	5,573	2,276	314	325	1,636	3,297	33.3	40.3
25 years and over	48,781	14,312	1,501	3,654	9,156	34,470	37.1	41.5
25 to 54 years	41,832	11,640	1,315	3,221	7,103	30,192	37.5	41.5
55 years and over	6,949	2,672	186	433	2,053	4,277	34.4	41.4
Race								
White, 16 years and over	103,366	26,133	3,043	6,653	16,438	77,233	39.3	43.6
Men	55,883	9,856	1,568	3,302	4,986	46,027	42.4	45.1
Women	47,483	16,277	1,475	3,350	11,452	31,205	35.7	41.5
Black, 16 years and over	13,791	2,977	609	900	1,468	10,814	38.8	41.8
Men	6,461	999	202	344	452	5,462	41.2	43.3
Women	7,330	1,979	407	556	1,016	5,352	36.7	40.3
Marital status								
Men, 16 years and over:								
Married, spouse present	40,066	4,968	825	2,383	1,760	35,098	44.1	45.5
Widowed, divorced, or separated	7,987	1,201	285	481	435	6,786	43.0	44.7
Single (never married)	17,312	5,193	775	885	3,533	12,119	37.5	43.3
Women, 16 years and over:								
Married, spouse present	31,039	10,093	808	2,260	7,026	20,945	36.1	41.3
Widowed, divorced, or separated	11,595	3,114	491	987	1,637	8,480	38.0	41.7
Single (never married)	14,858	5,829	651	832	4,345	9,029	34.0	41.3

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

Occupation and sex	March 1998							
	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 ¹	122,822	30,390	3,822	7,821	18,746	92,431	39.3	43.4
Managerial and professional specialty	37,319	6,957	528	2,439	3,990	30,362	42.2	45.2
Executive, administrative, and managerial	18,049	2,643	207	1,098	1,338	15,406	44.1	46.1
Professional specialty	19,270	4,314	322	1,341	2,652	14,956	40.4	44.2
Technical, sales, and administrative support	37,325	10,690	989	2,329	7,372	26,636	37.4	42.3
Technicians and related support	4,155	957	77	280	600	3,199	38.8	42.1
Sales occupations	15,100	4,652	505	712	3,435	10,448	38.3	44.8
Administrative support, including clerical	18,070	5,081	408	1,336	3,336	12,989	36.3	40.5
Service occupations	17,007	6,844	998	907	4,940	10,163	34.4	42.2
Private household	855	554	81	32	441	301	27.8	42.7
Protective service	2,270	338	42	129	168	1,931	42.7	44.9
Service, except private household and protective	13,882	5,952	874	747	4,331	7,930	33.4	41.5
Precision production, craft, and repair	13,985	2,221	544	1,065	612	11,764	41.7	43.0
Operators, fabricators, and laborers	17,185	3,679	764	1,082	1,832	13,507	40.0	42.9
Machine operators, assemblers, and inspectors	7,607	1,199	284	488	427	6,408	40.8	42.2
Transportation and material moving occupations	4,964	1,012	215	286	510	3,953	42.4	45.6
Handlers, equipment cleaners, helpers, and laborers	4,614	1,468	265	308	895	3,146	36.1	41.0
Men, 16 years and over ¹	65,196	11,290	1,870	3,737	5,683	53,906	42.3	44.9
Managerial and professional specialty	18,988	2,359	234	1,039	1,086	16,629	45.4	47.2
Executive, administrative, and managerial	9,869	1,012	107	507	399	8,856	46.8	48.1
Professional specialty	9,119	1,346	128	532	687	7,773	43.9	46.2
Technical, sales, and administrative support	13,450	2,450	288	619	1,544	11,000	41.7	45.1
Technicians and related support	1,954	326	30	120	176	1,628	40.9	43.3
Sales occupations	7,670	1,383	153	305	925	6,287	43.1	46.7
Administrative support, including clerical	3,826	741	105	194	443	3,085	39.5	42.8
Service occupations	6,859	2,008	306	320	1,382	4,851	37.6	43.5
Private household	35	23	7	1	15	12	(²)	(²)
Protective service	1,867	234	26	99	110	1,633	43.7	45.5
Service, except private household and protective	4,958	1,751	274	220	1,257	3,207	35.3	42.5
Precision production, craft, and repair	12,905	1,965	513	991	461	10,941	42.0	43.1
Operators, fabricators, and laborers	12,993	2,508	528	769	1,211	10,485	41.0	43.7
Machine operators, assemblers, and inspectors	4,817	615	133	268	214	4,202	42.1	43.3
Transportation and material moving occupations	4,451	792	183	257	352	3,659	43.3	45.9
Handlers, equipment cleaners, helpers, and laborers	3,726	1,101	213	243	645	2,624	36.9	41.4
Women, 16 years and over ¹	57,626	19,100	1,953	4,084	13,063	38,525	35.9	41.4
Managerial and professional specialty	18,331	4,599	294	1,400	2,904	13,733	38.9	42.8
Executive, administrative, and managerial	8,180	1,631	100	591	939	6,549	40.7	43.6
Professional specialty	10,151	2,968	194	809	1,965	7,184	37.4	42.1
Technical, sales, and administrative support	23,875	8,239	701	1,710	5,828	15,636	35.0	40.5
Technicians and related support	2,201	631	47	160	424	1,570	37.1	40.9
Sales occupations	7,430	3,269	352	407	2,511	4,161	33.4	41.9
Administrative support, including clerical	14,244	4,339	303	1,143	2,894	9,904	35.5	39.8
Service occupations	10,148	4,836	691	587	3,558	5,312	32.2	41.0
Private household	821	531	74	30	426	290	27.8	42.8
Protective service	403	104	16	30	58	299	37.9	41.9
Service, except private household and protective	8,924	4,201	601	526	3,074	4,723	32.4	40.8
Precision production, craft, and repair	1,080	256	30	74	152	824	37.9	41.1
Operators, fabricators, and laborers	4,192	1,171	236	313	621	3,021	36.8	40.3
Machine operators, assemblers, and inspectors	2,790	584	151	220	213	2,206	38.5	40.3
Transportation and material moving occupations	514	220	33	29	159	294	34.5	42.5
Handlers, equipment cleaners, helpers, and laborers	889	367	52	65	250	522	32.8	38.9

¹ Excludes farming, forestry, and fishing occupations.
² Data not shown where base is less than 75,000.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
Total, 16 years and over	4,158	3,779	5.7	5.2	3,241	3,038	5.2	4.8
Married, spouse present	1,415	1,291	3.2	2.9	1,097	1,102	3.2	3.2
Widowed, divorced, or separated	633	475	7.1	5.3	738	662	5.8	5.2
Single (never married)	2,110	2,012	10.5	9.9	1,406	1,273	8.7	7.6
White, 16 years and over	3,112	2,868	5.0	4.6	2,278	2,111	4.4	4.0
Married, spouse present	1,186	1,039	3.1	2.7	898	899	3.0	3.0
Widowed, divorced, or separated	483	356	6.6	4.7	536	483	5.3	4.8
Single (never married)	1,443	1,474	8.9	8.9	844	729	7.0	5.8
Black, 16 years and over	846	710	11.7	9.5	803	788	9.9	9.4
Married, spouse present	159	143	4.9	4.2	141	139	5.4	5.1
Widowed, divorced, or separated	116	109	9.8	9.6	167	154	7.7	7.0
Single (never married)	571	458	20.3	16.0	495	496	14.9	14.1
Total, 25 years and over	2,734	2,444	4.4	3.9	2,175	2,067	4.1	3.9
Married, spouse present	1,327	1,235	3.1	2.9	990	960	3.1	2.9
Widowed, divorced, or separated	591	456	6.9	5.2	670	628	5.4	5.1
Single (never married)	816	753	7.6	6.9	515	479	6.4	5.6
White, 25 years and over	2,116	1,861	4.0	3.5	1,575	1,479	3.6	3.4
Married, spouse present	1,132	994	3.0	2.7	825	788	2.9	2.8
Widowed, divorced, or separated	455	336	6.4	4.6	480	460	4.9	4.7
Single (never married)	529	531	6.3	6.2	271	231	4.8	3.9
Black, 25 years and over	472	437	7.9	7.0	503	499	7.6	7.1
Married, spouse present	127	137	4.1	4.1	114	118	4.5	4.5
Widowed, divorced, or separated	105	109	9.0	9.7	163	143	7.7	6.6
Single (never married)	241	191	14.0	11.1	227	238	11.3	10.6

NOTE: Beginning in 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-29. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
Total, 16 years and over ¹	7,399	6,816	5.5	5.0	5.7	5.2	5.2	4.8
Managerial and professional specialty	766	672	2.0	1.7	2.0	1.7	2.0	1.7
Executive, administrative, and managerial	403	300	2.2	1.6	1.9	1.5	2.5	1.6
Professional specialty	363	372	1.8	1.8	2.0	1.9	1.7	1.7
Technical, sales, and administrative support	1,698	1,625	4.3	4.0	3.8	3.6	4.5	4.3
Technicians and related support	126	102	3.0	2.3	2.5	2.4	3.4	2.2
Sales occupations	852	799	5.2	4.9	3.9	3.8	6.4	5.9
Administrative support, including clerical	720	725	3.8	3.7	4.1	3.6	3.7	3.8
Service occupations	1,311	1,306	7.1	6.9	7.6	7.3	6.7	6.6
Private household	54	89	6.6	9.2	(²)	(²)	6.4	8.8
Protective service	81	92	3.5	3.8	3.6	4.0	3.3	2.9
Service, except private household and protective	1,175	1,125	7.6	7.2	8.9	8.3	6.9	6.6
Precision production, craft, and repair	872	818	5.9	5.4	6.0	5.1	4.6	8.6
Mechanics and repairers	157	175	3.3	3.6	3.3	3.6	3.0	2.5
Construction trades	546	467	9.3	7.7	9.3	7.4	7.9	23.8
Other precision production, craft, and repair	170	176	4.1	4.1	4.0	3.0	4.4	8.0
Operators, fabricators, and laborers	1,806	1,546	9.1	8.0	8.9	7.8	10.0	8.6
Machine operators, assemblers, and inspectors	622	515	7.2	6.2	5.8	4.9	9.5	8.2
Transportation and material moving occupations	370	403	6.6	7.2	6.5	7.3	7.7	6.6
Handlers, equipment cleaners, helpers, and laborers	814	628	14.7	11.5	15.2	11.7	12.6	10.8
Construction laborers	250	213	26.2	23.3	25.9	22.7	(²)	(²)
Other handlers, equipment cleaners, helpers, and laborers	564	415	12.3	9.1	12.4	8.9	11.7	9.8
Farming, forestry, and fishing	338	307	9.6	9.4	9.4	8.6	10.6	12.4
No previous work experience	568	505	-	-	-	-	-	-
16 to 19 years	356	349	-	-	-	-	-	-
20 to 24 years	95	67	-	-	-	-	-	-
25 years and over	116	89	-	-	-	-	-	-

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

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

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
Total, 16 years and over	7,399	6,816	5.5	5.0	5.7	5.2	5.2	4.8
Nonagricultural private wage and salary workers	5,814	5,325	5.6	5.1	5.9	5.2	5.4	4.9
Mining	30	27	4.7	4.5	4.6	5.0	5.4	1.0
Construction	869	807	12.6	11.5	13.1	11.6	8.1	10.3
Manufacturing	988	865	4.6	4.1	4.2	3.4	5.5	5.5
Durable goods	513	493	4.0	3.9	3.8	3.6	4.6	4.7
Lumber and wood products	76	66	9.0	8.2	7.8	9.1	14.4	4.8
Furniture and fixtures	60	30	8.5	4.4	9.4	3.9	6.3	5.3
Stone, clay, and glass products	49	32	7.5	6.1	8.0	5.3	6.1	9.3
Primary metal industries	14	25	1.8	3.6	1.6	4.0	2.9	.0
Fabricated metal products	39	59	2.8	4.1	2.2	4.4	4.9	3.2
Machinery and computing equipment	70	100	2.7	3.8	2.6	3.0	3.0	6.4
Electrical machinery, equipment, and supplies	54	66	2.7	3.3	2.2	2.5	3.7	4.6
Transportation equipment	86	54	3.6	2.2	3.6	1.8	3.7	3.6
Automobiles	53	36	3.9	2.5	3.6	1.9	4.7	4.6
Other transportation equipment	32	18	3.2	1.7	3.6	1.6	1.9	2.2
Professional and photographic equipment	22	28	2.7	3.4	2.7	3.6	2.7	3.1
Other durable goods industries	43	34	6.3	5.0	5.1	4.1	8.0	6.4
Nondurable goods	475	371	5.5	4.5	5.0	3.3	6.4	6.4
Food and kindred products	129	114	7.4	6.8	6.8	4.5	8.8	11.1
Textile mill products	36	25	5.4	4.4	3.0	5.1	8.4	3.6
Apparel and other textile products	90	70	9.2	7.6	8.3	6.6	9.6	8.1
Paper and allied products	28	20	4.4	2.5	5.1	2.2	2.4	3.3
Printing and publishing	76	52	4.2	3.0	4.7	2.6	3.5	3.5
Chemicals and allied products	42	33	2.9	2.6	2.9	2.0	2.9	3.7
Rubber and miscellaneous plastics products	50	35	5.4	3.7	3.9	2.4	8.5	6.2
Other nondurable goods industries	24	22	6.1	5.8	7.2	2.7	4.0	13.2
Transportation and public utilities	312	278	4.3	3.6	4.6	3.5	3.8	3.9
Transportation	220	198	4.9	4.2	5.4	4.0	3.5	4.6
Communications and other public utilities	92	80	3.4	2.7	3.0	2.6	4.1	3.0
Wholesale and retail trade	1,781	1,554	6.8	5.9	6.2	5.5	7.5	6.2
Wholesale trade	164	149	3.4	3.2	2.7	3.4	5.0	2.6
Retail trade	1,617	1,405	7.6	6.4	7.3	6.2	7.8	6.7
Finance, insurance, and real estate	228	196	3.0	2.4	3.1	2.5	2.9	2.4
Service industries	1,606	1,597	4.8	4.6	5.1	5.0	4.7	4.4
Professional services	555	574	2.8	2.8	2.5	2.6	2.9	2.9
Other service industries	1,050	1,023	7.8	7.4	7.2	7.0	8.4	7.8
Agricultural wage and salary workers	252	257	12.5	12.9	12.4	11.3	12.8	17.9
Government, self-employed, and unpaid family workers	766	729	2.6	2.5	3.0	2.6	2.1	2.4
No previous work experience	568	505	-	-	-	-	-	-

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
NUMBER OF UNEMPLOYED												
Total unemployed	7,399	6,816	3,435	3,093	2,718	2,554	1,246	1,170	5,389	4,980	1,649	1,498
Job losers and persons who completed temporary jobs	3,493	3,311	2,198	2,009	1,132	1,145	162	157	2,754	2,532	591	625
On temporary layoff	1,250	1,238	876	791	304	385	71	62	1,081	1,030	122	153
Not on temporary layoff	2,243	2,073	1,323	1,217	829	759	91	96	1,673	1,502	470	471
Permanent job losers	1,560	1,511	913	868	591	581	56	61	1,213	1,116	279	333
Persons who completed temporary jobs	683	562	410	349	238	178	36	34	460	387	191	138
Job leavers	808	755	359	341	366	334	83	81	610	592	168	131
Reentrants	2,530	2,246	823	678	1,063	984	644	583	1,645	1,528	733	596
New entrants	568	505	55	65	156	91	356	349	380	328	157	147
PERCENT DISTRIBUTION												
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers and persons who completed temporary jobs	47.2	48.6	64.0	64.9	41.7	44.8	13.0	13.5	51.1	50.8	35.9	41.7
On temporary layoff	16.9	18.2	25.5	25.6	11.2	15.1	5.7	5.3	20.1	20.7	7.4	10.2
Not on temporary layoff	30.3	30.4	38.5	39.4	30.5	29.7	7.3	8.2	31.0	30.2	28.5	31.5
Job leavers	10.9	11.1	10.4	11.0	13.5	13.1	6.7	6.9	11.3	11.9	10.2	8.7
Reentrants	34.2	32.9	24.0	21.9	39.1	38.5	51.7	49.8	30.5	30.7	44.4	39.8
New entrants	7.7	7.4	1.6	2.1	5.7	3.6	28.6	29.8	7.1	6.6	9.5	9.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers and persons who completed temporary jobs	2.6	2.4	3.2	2.9	1.9	1.9	2.2	2.0	2.4	2.2	3.9	3.9
Job leavers .....	.6	.6	.5	.5	.6	.6	1.1	1.0	.5	.5	1.1	.8
Reentrants	1.9	1.6	1.2	1.0	1.8	1.6	8.7	7.5	1.4	1.3	4.8	3.8
New entrants .....	.4	.4	.1	.1	.3	.2	4.8	4.5	.3	.3	1.0	.9

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and 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	March 1998						
	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	6,816	100.0	37.0	33.4	29.6	15.5	14.1
Job losers and persons who completed temporary jobs	3,311	100.0	36.0	34.5	29.5	17.3	12.2
On temporary layoff	1,238	100.0	42.6	33.9	23.5	18.4	5.1
Not on temporary layoff	2,073	100.0	32.0	34.9	33.0	16.5	16.5
Permanent job losers	1,511	100.0	30.8	36.3	32.8	16.8	16.1
Persons who completed temporary jobs	562	100.0	35.2	31.2	33.6	15.9	17.7
Job leavers	755	100.0	44.6	34.0	21.4	11.4	10.1
Reentrants	2,246	100.0	36.7	31.1	32.2	15.4	16.8
New entrants	505	100.0	33.9	34.8	31.3	10.2	21.1
Men, 20 years and over	3,093	100.0	33.4	33.1	33.5	16.9	16.6
Job losers and persons who completed temporary jobs	2,009	100.0	33.4	35.1	31.6	17.6	13.9
On temporary layoff	791	100.0	38.3	37.1	24.6	19.7	5.0
Not on temporary layoff	1,217	100.0	30.2	33.7	36.1	16.3	19.8
Permanent job losers	868	100.0	28.7	34.9	36.4	16.8	19.6
Persons who completed temporary jobs	349	100.0	33.8	30.9	35.2	14.9	20.3
Job leavers	341	100.0	37.4	34.8	27.7	13.8	13.9
Reentrants	678	100.0	33.1	26.1	40.8	15.7	25.2
New entrants	65	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 20 years and over	2,554	100.0	38.2	33.1	28.8	15.6	13.2
Job losers and persons who completed temporary jobs	1,145	100.0	37.5	34.1	28.4	17.5	10.9
On temporary layoff	385	100.0	45.6	30.9	23.6	17.5	6.1
Not on temporary layoff	759	100.0	33.4	35.7	30.9	17.5	13.3
Permanent job losers	581	100.0	31.8	37.9	30.3	17.8	12.5
Persons who completed temporary jobs	178	100.0	38.6	28.7	32.7	16.7	16.0
Job leavers	334	100.0	47.0	33.3	19.7	11.1	8.5
Reentrants	984	100.0	36.7	32.4	30.9	15.6	15.3
New entrants	91	100.0	29.8	26.1	44.1	7.0	37.1
Both sexes, 16 to 19 years	1,170	100.0	44.0	34.8	21.2	11.5	9.6
Job losers and persons who completed temporary jobs	157	100.0	58.2	31.0	10.8	10.8	-
On temporary layoff	62	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Not on temporary layoff	96	100.0	44.4	43.7	11.9	11.9	-
Permanent job losers	61	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Persons who completed temporary jobs	34	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Job leavers	81	100.0	64.9	33.2	1.9	1.9	-
Reentrants	583	100.0	40.9	34.8	24.4	14.9	9.5
New entrants	349	100.0	38.2	36.9	25.0	8.5	16.5

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

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and revised population controls used in the household survey.

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	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
Total, 16 years and over	7,399	6,816	100.0	100.0	5,943	5,364	100.0	100.0
Less than 5 weeks	2,313	2,524	31.3	37.0	1,680	1,866	28.3	34.8
5 to 14 weeks	2,663	2,274	36.0	33.4	2,123	1,765	35.7	32.9
5 to 10 weeks	1,743	1,600	23.6	23.5	1,341	1,208	22.6	22.5
11 to 14 weeks	920	673	12.4	9.9	782	556	13.2	10.4
15 weeks and over	2,423	2,019	32.7	29.6	2,140	1,733	36.0	32.3
15 to 26 weeks	1,259	1,055	17.0	15.5	1,107	904	18.6	16.8
27 weeks and over	1,164	964	15.7	14.1	1,034	830	17.4	15.5
27 to 51 weeks	534	448	7.2	6.6	469	391	7.9	7.3
52 weeks and over	630	516	8.5	7.6	565	439	9.5	8.2
Average (mean) duration, in weeks	16.3	15.2	-	-	17.7	16.2	-	-
Median duration, in weeks	9.3	8.0	-	-	10.3	8.7	-	-

NOTE: Beginning in January 1998, data reflect new composite estimation

procedures and 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	March 1998							Average (mean) duration	Median duration
	Thousands of persons								
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over					
				Total	15 to 26 weeks	27 weeks and over			
TOTAL									
Total, 16 years and over	6,816	2,524	2,274	2,019	1,055	964	15.2	8.0	
16 to 19 years	1,170	515	407	248	135	113	11.4	5.8	
20 to 24 years	1,135	480	440	215	126	89	11.2	6.7	
25 to 34 years	1,671	584	562	525	300	225	14.9	8.4	
35 to 44 years	1,435	527	442	466	223	244	15.8	8.6	
45 to 54 years	880	247	274	359	184	175	19.8	10.8	
55 to 64 years	394	126	113	154	62	92	24.3	9.9	
65 years and over	132	44	36	51	25	26	21.9	8.7	
Men, 16 years and over	3,779	1,329	1,277	1,173	595	578	16.3	8.5	
16 to 19 years	686	295	254	137	72	64	11.5	6.1	
20 to 24 years	649	245	275	128	66	62	12.8	7.2	
25 to 34 years	873	290	289	294	168	126	15.5	9.2	
35 to 44 years	733	264	204	266	126	140	17.3	9.2	
45 to 54 years	516	127	170	220	110	110	21.7	12.1	
55 to 64 years	244	83	66	94	36	58	24.9	9.6	
65 years and over	78	25	19	33	16	17	22.7	11.7	
Women, 16 years and over	3,038	1,195	997	846	460	386	13.8	7.4	
16 to 19 years	484	220	153	111	62	48	11.2	5.4	
20 to 24 years	486	235	165	86	59	27	9.0	5.3	
25 to 34 years	798	294	273	231	132	99	14.2	7.7	
35 to 44 years	702	263	239	201	97	104	14.2	8.1	
45 to 54 years	364	120	104	139	74	65	17.2	9.3	
55 to 64 years	150	43	47	60	26	34	23.4	10.4	
65 years and over	54	19	17	18	9	9	(¹)	(¹)	
Race									
White, 16 years and over	4,980	1,879	1,755	1,346	763	583	13.7	7.5	
Men	2,868	1,026	1,015	827	450	377	15.1	8.0	
Women	2,111	852	740	519	313	205	11.9	6.8	
Black, 16 years and over	1,498	514	421	563	237	326	20.0	10.1	
Men	710	228	207	276	113	163	20.7	10.3	
Women	788	287	214	287	125	162	19.3	9.9	
Marital status									
Men, 16 years and over:									
Married, spouse present	1,291	410	405	477	234	243	18.9	10.0	
Widowed, divorced, or separated	475	166	144	165	90	75	18.3	9.7	
Single (never married)	2,012	753	728	531	271	260	14.0	7.5	
Women, 16 years and over:									
Married, spouse present	1,102	443	390	270	159	111	11.9	7.2	
Widowed, divorced, or separated	662	237	197	228	114	114	17.6	8.7	
Single (never married)	1,273	514	411	348	186	162	13.5	7.0	

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

NOTE: Beginning in January 1998, data reflects new composite estimation

procedures and 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	March 1998							Average (mean) duration	Median duration
	Thousands of persons					Weeks			
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over					
				Total	15 to 26 weeks	27 weeks and over			
OCCUPATION									
Managerial and professional specialty	672	244	207	221	100	122	18.1	8.7	
Technical, sales, and administrative support	1,625	661	535	429	220	209	14.0	7.2	
Service occupations	1,306	503	432	371	181	190	14.8	7.6	
Precision production, craft, and repair	818	351	241	226	128	98	13.9	7.1	
Operators, fabricators, and laborers	1,546	505	557	483	288	196	15.5	8.7	
Farming, forestry, and fishing	307	76	120	110	84	26	15.2	11.7	
INDUSTRY¹									
Agriculture	257	62	109	86	64	23	13.8	11.6	
Construction	835	302	300	233	141	92	14.2	8.4	
Manufacturing	869	294	286	290	172	118	15.7	8.7	
Durable goods	498	178	177	143	74	69	15.7	8.3	
Nondurable goods	371	115	109	147	98	49	15.7	9.3	
Transportation and public utilities	939	107	103	107	59	48	16.1	8.5	
Wholesale and retail trade	4,725	625	527	412	232	179	13.4	7.4	
Finance, insurance, and real estate	616	63	78	62	29	33	16.8	9.4	
Services	3,422	720	590	514	243	271	15.6	7.5	
Public administration	360	41	27	52	25	26	19.6	10.0	
No previous work experience	505	172	176	158	51	107	16.6	7.3	

¹ Includes wage and salary workers only.

procedures and revised population controls used in the household survey.

NOTE: Beginning in January 1998, data reflect new composite estimation

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

(In thousands)

Category	Total		Age						Sex			
	Mar. 1997	Mar. 1998	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
	Total not in the labor force	66,989	67,580	11,862	11,868	18,457	18,406	36,670	37,306	24,656	25,121	42,333	42,459
Do not want a job now ¹	62,040	62,824	9,940	10,085	16,212	16,245	35,888	36,494	22,547	23,110	39,493	39,713
Want a job ¹	4,949	4,756	1,921	1,783	2,245	2,161	782	812	2,108	2,010	2,840	2,746
Did not search for work in previous year	2,760	2,758	1,035	995	1,213	1,172	511	591	1,119	1,129	1,641	1,629
Searched for work in previous year ²	2,189	1,998	886	788	1,032	989	270	221	989	881	1,200	1,116
Not available to work now	717	572	369	257	315	274	33	41	306	240	412	332
Available to work now	1,471	1,426	517	531	717	715	237	180	683	642	788	784
Reason not currently looking:												
Discouragement over job prospects ³	356	343	78	84	221	195	57	64	185	185	171	158
Reasons other than discouragement	1,115	1,083	439	447	496	520	180	116	498	457	617	626
Family responsibilities	162	126	29	30	108	81	24	15	26	21	136	105
In school or training	285	255	234	214	48	41	3	-	152	119	133	136
Ill health or disability	94	101	18	9	46	74	30	18	50	44	44	57
Other ⁴	574	601	157	194	295	324	122	83	270	273	304	328

¹ Includes some persons who are not asked if they want a job.

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

³ 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.

⁴ 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 1998, data reflect new composite estimation procedures and 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 ¹		Number		Rate ¹		Number		Rate ¹	
	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
AGE												
Total, 16 years and over ²	7,862	7,987	6.1	6.1	4,055	4,187	5.9	6.0	3,807	3,800	6.4	6.3
16 to 19 years	278	272	4.5	4.1	117	106	3.8	3.3	161	167	5.2	5.0
20 years and over	7,585	7,715	6.2	6.2	3,938	4,082	6.0	6.2	3,646	3,634	6.5	6.3
20 to 24 years	781	708	6.5	5.8	382	319	6.1	5.0	399	389	6.9	6.6
25 years and over	6,804	7,007	6.2	6.3	3,556	3,762	6.0	6.3	3,247	3,245	6.4	6.3
25 to 54 years	6,059	6,221	6.5	6.6	3,143	3,315	6.3	6.5	2,916	2,906	6.7	6.6
55 years and over	744	786	4.6	4.8	413	447	4.6	5.0	331	339	4.6	4.5
55 to 64 years	628	672	5.1	5.2	334	377	5.0	5.4	294	295	5.3	5.0
65 years and over	117	114	3.1	3.1	79	71	3.5	3.5	37	44	2.4	2.7
RACE AND HISPANIC ORIGIN												
White	6,856	6,925	6.3	6.3	3,541	3,647	6.0	6.1	3,315	3,278	6.7	6.5
Black	727	744	5.3	5.2	361	373	5.7	5.5	366	370	5.0	4.9
Hispanic origin	534	542	4.3	4.1	308	315	4.1	4.0	227	228	4.7	4.3
MARITAL STATUS												
Married, spouse present	4,308	4,619	5.7	6.1	2,526	2,749	6.0	6.5	1,782	1,870	5.4	5.7
Widowed, divorced, or separated	1,487	1,411	7.3	6.8	531	512	6.4	6.0	957	899	8.0	7.4
Single (never married)	2,067	1,957	6.3	5.8	998	926	5.6	5.1	1,068	1,031	7.3	6.6
FULL- OR PART-TIME STATUS												
Primary job full time, secondary job part time	4,546	4,632	-	-	2,642	2,697	-	-	1,903	1,935	-	-
Primary and secondary jobs both part time	1,687	1,635	-	-	499	476	-	-	1,188	1,158	-	-
Primary and secondary jobs both full time	196	216	-	-	133	142	-	-	63	74	-	-
Hours vary on primary or secondary job	1,398	1,471	-	-	755	854	-	-	643	617	-	-

¹ Multiple jobholders as a percent of all employed persons in specified group.

² 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 1998, data reflect new composite estimation procedures and 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							
	Mar. 1997	Mar. 1998	Total		Employed		Unemployed			
			Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998	Number		Percent of labor force	
							Mar. 1997	Mar. 1998	Mar. 1997	Mar. 1998
VIETNAM-ERA VETERANS										
Total, 40 years and over	7,794	7,815	6,686	6,583	6,454	6,375	232	208	3.5	3.2
40 to 54 years	6,378	6,069	5,795	5,463	5,592	5,285	204	178	3.5	3.3
40 to 44 years	1,095	827	983	750	937	721	46	28	4.7	3.8
45 to 49 years	2,824	2,357	2,576	2,142	2,490	2,069	86	74	3.3	3.4
50 to 54 years	2,459	2,885	2,236	2,571	2,165	2,495	72	76	3.2	2.9
55 years and over	1,416	1,746	891	1,120	862	1,090	28	30	3.2	2.7
NONVETERANS										
Total, 40 to 54 years	19,049	19,977	17,275	18,211	16,636	17,549	639	662	3.7	3.6
40 to 44 years	8,826	9,122	8,127	8,468	7,823	8,158	304	310	3.7	3.7
45 to 49 years	6,022	6,579	5,502	6,026	5,319	5,809	183	217	3.3	3.6
50 to 54 years	4,201	4,276	3,646	3,718	3,494	3,582	152	135	4.2	3.6

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces. Beginning in January 1998, data

reflect new composite estimation procedures and revised population controls used in the household survey.

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employees on nonfarm payrolls by major industry, 1947 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	(1)	(1)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	(1)	(1)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	(1)	(1)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	(1)	(1)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	(1)	(1)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	(1)	(1)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	(1)	(1)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	(1)	(1)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,264	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819
1957	52,855	45,239	20,967	828	2,962	17,176	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071
1958	51,322	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,765	2,191	1,415	4,230
1959 ²	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	2,633	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	19,684	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	119,523	100,076	24,431	574	5,400	18,457	95,092	6,261	6,483	21,625	6,899	34,377	2,757	4,624	12,066
1997	122,259	102,605	24,739	574	5,629	18,537	97,520	6,425	6,657	22,136	7,053	35,595	2,700	4,648	12,307
Monthly data, seasonally adjusted															
1997:															
March	121,344	101,799	24,670	572	5,609	18,489	96,674	6,405	6,611	21,945	6,992	35,176	2,709	4,622	12,214
April	121,671	102,092	24,667	573	5,599	18,495	97,004	6,421	6,622	22,029	7,019	35,334	2,708	4,635	12,236
May	121,834	102,269	24,702	576	5,628	18,498	97,132	6,431	6,630	22,026	7,029	35,451	2,703	4,636	12,226
June	122,056	102,417	24,714	574	5,622	18,518	97,342	6,434	6,634	22,079	7,034	35,522	2,694	4,640	12,305
July	122,440	102,721	24,713	574	5,625	18,514	97,727	6,443	6,664	22,159	7,058	35,684	2,689	4,671	12,359
August	122,492	102,688	24,765	573	5,637	18,555	97,727	6,289	6,675	22,189	7,068	35,702	2,690	4,664	12,450
September	122,792	103,078	24,771	576	5,642	18,553	98,021	6,473	6,687	22,215	7,082	35,850	2,680	4,662	12,372
October	123,083	103,334	24,814	574	5,650	18,590	98,269	6,497	6,712	22,258	7,108	35,945	2,687	4,663	12,399
November	123,512	103,749	24,888	572	5,682	18,634	98,624	6,495	6,729	22,403	7,132	36,102	2,694	4,673	12,396
December	123,866	104,096	24,995	574	5,747	18,674	98,871	6,478	6,746	22,450	7,151	36,276	2,689	4,665	12,416
1998:															
January	124,265	104,484	25,139	574	5,843	18,722	99,126	6,516	6,780	22,462	7,170	36,417	2,674	4,664	12,443
February ^P	124,517	104,705	25,172	572	5,877	18,723	99,345	6,542	6,793	22,476	7,190	36,532	2,676	4,661	12,475
March ^P	124,481	104,674	25,086	571	5,789	18,726	99,395	6,564	6,798	22,428	7,221	36,577	2,672	4,667	12,468

¹ Not available.

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

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1996) and all seasonally adjusted data (beginning January 1993) are subject to revision.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, 1964 to date

Year and month	Total private ¹			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989	34.6	9.66	334.24	43.0	13.26	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	11.81	406.26	45.3	15.61	707.13	39.0	15.46	602.94
1997	34.6	12.26	424.20	45.4	16.14	732.76	38.9	16.00	622.40
Monthly data, not seasonally adjusted									
1997:									
March	34.6	\$12.17	\$421.08	45.7	\$15.98	\$730.29	38.4	\$15.67	\$601.73
April	34.4	12.17	418.65	45.1	16.05	723.86	38.7	15.75	609.53
May	34.5	12.17	419.87	45.8	15.98	731.88	39.7	15.83	628.45
June	34.9	12.17	424.73	45.8	16.11	737.84	39.5	15.88	627.26
July	34.7	12.15	421.61	45.2	16.03	724.56	40.1	16.00	641.60
August	35.0	12.21	427.35	45.6	15.94	726.86	39.7	16.09	638.77
September	34.7	12.39	429.93	45.6	16.23	740.09	40.0	16.27	650.80
October	34.6	12.43	430.08	45.4	16.19	735.03	39.7	16.30	647.11
November	34.8	12.51	435.35	45.7	16.38	748.57	37.8	16.25	614.25
December	34.7	12.51	434.10	45.3	16.49	747.00	38.4	16.34	627.46
1998:									
January	34.2	12.59	430.58	45.0	16.61	747.45	37.4	16.22	606.63
February ^P	34.6	12.63	437.00	44.0	16.89	743.16	37.9	16.19	613.60
March ^P	34.5	12.66	436.77	43.3	16.96	734.37	37.9	16.28	617.01

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, 1964 to date—Continued

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages										
1964	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
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	12.78	12.12	531.65	39.6	14.44	571.82	38.3	12.87	492.92
1997	42.0	13.17	12.46	553.14	39.7	14.89	591.13	38.4	13.43	515.71
Monthly data, not seasonally adjusted										
1997:										
March	42.0	\$13.08	\$12.39	\$549.36	39.5	\$14.70	\$580.65	38.5	\$13.28	\$511.28
April	41.8	13.09	12.40	547.16	39.2	14.77	578.98	38.3	13.33	510.54
May	41.9	13.09	12.40	548.47	39.3	14.72	578.50	38.5	13.32	512.82
June	42.0	13.10	12.41	550.20	39.8	14.78	588.24	38.7	13.36	517.03
July	41.2	13.11	12.43	540.13	39.4	14.95	589.03	38.3	13.37	512.07
August	42.0	13.15	12.42	552.30	40.5	15.00	607.50	38.5	13.47	518.60
September	42.4	13.24	12.47	561.38	40.2	15.01	603.40	38.4	13.52	519.17
October	42.2	13.29	12.54	560.84	39.8	15.04	598.59	38.4	13.56	520.70
November	42.6	13.37	12.61	569.56	40.3	15.14	610.14	38.7	13.74	531.74
December	43.0	13.48	12.69	579.64	39.8	15.12	601.78	38.4	13.71	526.46
1998:										
January	41.9	13.41	12.70	561.88	39.2	15.22	596.62	38.1	13.76	524.26
February ^P	41.7	13.42	12.73	559.61	39.8	15.19	604.56	38.5	13.85	533.23
March ^P	41.7	13.48	12.77	562.12	39.3	15.17	596.18	38.5	13.85	533.23

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

B-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, 1964 to date—Continued

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	37.0	\$1.75	\$64.75	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	12.79	459.16	32.4	11.79	382.00
1997	28.9	8.34	241.03	36.1	13.31	480.49	32.6	12.28	400.33
Monthly data, not seasonally adjusted									
1997:									
March	28.7	\$8.27	\$237.35	36.5	\$13.20	\$481.80	32.6	\$12.24	\$399.02
April	28.6	8.28	236.81	35.9	13.09	469.93	32.4	12.20	395.28
May	28.8	8.27	238.18	35.9	13.18	473.16	32.4	12.17	394.31
June	29.4	8.27	243.14	36.6	13.23	484.22	32.8	12.15	398.52
July	29.6	8.27	244.79	35.8	13.18	471.84	32.8	12.07	395.90
August	29.7	8.29	246.21	36.1	13.35	481.94	32.9	12.12	398.75
September	29.0	8.45	245.05	35.8	13.45	481.51	32.5	12.36	401.70
October	28.8	8.47	243.94	35.9	13.53	485.73	32.6	12.42	404.89
November	28.8	8.51	245.09	36.7	13.69	502.42	32.8	12.58	412.62
December	29.2	8.51	248.49	35.9	13.61	488.60	32.6	12.61	411.09
1998:									
January	28.1	8.63	242.50	36.1	13.67	493.49	32.4	12.67	410.51
February ^p	28.8	8.62	248.26	37.1	13.91	516.06	32.8	12.75	418.20
March ^p	28.7	8.65	248.26	36.9	13.95	514.76	32.7	12.77	417.58

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

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P	Mar.P
Total	121,344	121,671	121,834	122,056	122,440	122,492	122,792	123,083	123,512	123,866	124,265	124,517	124,481
Total private	101,799	102,092	102,269	102,417	102,721	102,688	103,078	103,334	103,749	104,096	104,484	104,705	104,674
Goods-producing	24,670	24,667	24,702	24,714	24,713	24,765	24,771	24,814	24,888	24,995	25,139	25,172	25,086
Mining	572	573	576	574	574	573	576	574	572	574	574	572	571
Metal mining	54	54	54	54	54	54	54	53	54	53	52	52	52
Coal mining	93	93	93	92	91	91	91	91	90	90	90	89	89
Oil and gas extraction	317	319	321	320	321	321	323	323	322	323	324	324	323
Nonmetallic minerals, except fuels	108	107	108	108	108	107	108	107	106	108	108	107	107
Construction	5,609	5,599	5,628	5,622	5,625	5,637	5,642	5,650	5,682	5,747	5,843	5,877	5,789
General building contractors	1,298	1,297	1,300	1,302	1,308	1,306	1,305	1,311	1,327	1,343	1,363	1,368	1,363
Heavy construction, except building	777	767	777	766	761	764	762	758	759	774	782	792	771
Special trade contractors	3,534	3,535	3,551	3,554	3,556	3,567	3,575	3,581	3,596	3,630	3,698	3,717	3,655
Manufacturing	18,489	18,495	18,498	18,518	18,514	18,555	18,553	18,590	18,634	18,674	18,722	18,723	18,726
Durable goods	10,848	10,856	10,864	10,891	10,910	10,957	10,952	10,985	11,020	11,048	11,093	11,102	11,103
Lumber and wood products	797	799	800	797	796	798	798	800	800	806	808	809	808
Furniture and fixtures	507	506	508	508	510	506	508	509	511	513	516	519	521
Stone, clay, and glass products	542	541	540	538	541	541	541	543	542	543	550	549	546
Primary metal industries	709	710	708	709	708	711	713	716	716	717	719	720	720
Fabricated metal products	1,463	1,468	1,468	1,470	1,468	1,475	1,477	1,482	1,485	1,489	1,496	1,497	1,494
Industrial machinery and equipment	2,136	2,142	2,146	2,152	2,155	2,165	2,168	2,176	2,184	2,188	2,194	2,198	2,198
Computer and office equipment	372	375	378	379	381	385	384	386	384	387	387	387	387
Electronic and other electrical equipment	1,645	1,643	1,644	1,651	1,658	1,661	1,663	1,666	1,673	1,678	1,685	1,685	1,687
Electronic components and accessories	614	618	622	628	632	637	639	644	647	651	655	654	653
Transportation equipment	1,810	1,804	1,809	1,824	1,826	1,855	1,840	1,849	1,868	1,868	1,874	1,879	1,880
Motor vehicles and equipment	969	957	960	967	965	985	973	977	995	988	992	993	993
Aircraft and parts	491	495	498	505	510	514	515	518	521	526	527	530	529
Instruments and related products	853	855	854	856	859	858	858	859	860	861	864	860	863
Miscellaneous manufacturing	386	388	387	386	389	387	386	385	381	385	387	386	386
Nondurable goods	7,641	7,639	7,634	7,627	7,604	7,598	7,601	7,605	7,614	7,626	7,629	7,621	7,623
Food and kindred products	1,698	1,699	1,693	1,692	1,684	1,679	1,688	1,690	1,701	1,706	1,710	1,709	1,714
Tobacco products	42	41	41	41	41	40	40	41	42	41	40	41	41
Textile mill products	612	609	609	607	608	604	605	604	602	604	601	598	597
Apparel and other textile products	827	822	818	816	810	810	803	800	796	795	792	783	782
Paper and allied products	677	677	677	675	675	675	675	675	676	676	678	678	678
Printing and publishing	1,535	1,541	1,546	1,550	1,549	1,547	1,547	1,548	1,551	1,553	1,558	1,560	1,558
Chemicals and allied products	1,028	1,029	1,030	1,027	1,023	1,024	1,026	1,028	1,028	1,029	1,027	1,028	1,030
Petroleum and coal products	140	140	139	138	138	138	138	137	137	138	134	135	135
Rubber and misc. plastics products	988	988	988	989	986	991	990	993	992	996	1,002	1,001	1,002
Leather and leather products	94	93	93	92	90	90	89	89	89	88	87	88	86
Service-producing	96,674	97,004	97,132	97,342	97,727	97,727	98,021	98,269	98,624	98,871	99,126	99,345	99,395
Transportation and public utilities	6,405	6,421	6,431	6,434	6,443	6,289	6,473	6,497	6,495	6,478	6,516	6,542	6,564
Transportation	4,164	4,179	4,187	4,193	4,202	4,049	4,232	4,247	4,243	4,221	4,247	4,268	4,281
Railroad transportation	226	225	226	230	229	225	227	226	229	230	233	232	231
Local and interurban passenger transit	455	460	458	457	461	464	457	458	459	462	463	466	469
Trucking and warehousing	1,671	1,676	1,687	1,686	1,692	1,703	1,708	1,710	1,702	1,699	1,713	1,719	1,722
Water transportation	175	177	176	178	176	179	176	178	177	175	172	177	179
Transportation by air	1,191	1,192	1,192	1,192	1,193	1,025	1,211	1,221	1,222	1,201	1,210	1,215	1,220
Pipelines, except natural gas	14	14	14	14	14	14	14	14	14	14	14	14	14
Transportation services	432	435	434	436	437	439	439	440	440	440	442	445	446
Communications and public utilities	2,241	2,242	2,244	2,241	2,241	2,240	2,241	2,250	2,252	2,257	2,269	2,274	2,283
Communications	1,364	1,369	1,372	1,372	1,372	1,376	1,376	1,385	1,390	1,396	1,406	1,410	1,420
Electric, gas, and sanitary services	877	873	872	869	869	864	865	865	862	861	863	864	863
Wholesale trade	6,611	6,622	6,630	6,634	6,664	6,675	6,687	6,712	6,729	6,746	6,780	6,793	6,798
Durable goods	3,889	3,900	3,909	3,917	3,938	3,957	3,962	3,978	3,993	4,006	4,024	4,044	4,046
Nondurable goods	2,722	2,722	2,721	2,717	2,726	2,718	2,725	2,734	2,736	2,740	2,756	2,749	2,752

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	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P	Mar.P
Retail trade	21,945	22,029	22,026	22,079	22,159	22,189	22,215	22,258	22,403	22,450	22,462	22,476	22,428
Building materials and garden supplies	922	931	932	928	930	929	926	926	934	934	945	948	947
General merchandise stores	2,783	2,799	2,787	2,798	2,803	2,822	2,818	2,824	2,868	2,874	2,866	2,864	2,863
Department stores	2,452	2,446	2,452	2,450	2,458	2,470	2,469	2,474	2,522	2,520	2,531	2,510	2,511
Food stores	3,478	3,480	3,482	3,487	3,502	3,505	3,507	3,520	3,521	3,522	3,533	3,539	3,538
Automotive dealers and service stations	2,315	2,319	2,316	2,315	2,318	2,325	2,331	2,336	2,338	2,338	2,339	2,339	2,342
New and used car dealers	1,055	1,055	1,054	1,056	1,055	1,057	1,057	1,060	1,062	1,061	1,061	1,061	1,062
Apparel and accessory stores	1,104	1,105	1,099	1,097	1,096	1,102	1,102	1,108	1,111	1,106	1,111	1,102	1,093
Furniture and home furnishings stores	1,025	1,026	1,032	1,034	1,042	1,044	1,049	1,055	1,062	1,070	1,073	1,076	1,078
Eating and drinking places	7,525	7,571	7,572	7,595	7,639	7,618	7,626	7,626	7,669	7,688	7,694	7,709	7,666
Miscellaneous retail establishments	2,793	2,798	2,806	2,825	2,829	2,844	2,856	2,863	2,900	2,918	2,901	2,899	2,901
Finance, insurance, and real estate	6,992	7,019	7,029	7,034	7,058	7,068	7,082	7,108	7,132	7,151	7,170	7,190	7,221
Finance	3,366	3,381	3,389	3,394	3,405	3,414	3,427	3,444	3,457	3,472	3,479	3,489	3,508
Depository institutions	2,037	2,041	2,043	2,044	2,048	2,048	2,048	2,052	2,058	2,064	2,061	2,064	2,070
Commercial banks	1,482	1,486	1,488	1,487	1,490	1,491	1,491	1,495	1,500	1,502	1,500	1,502	1,504
Savings institutions	254	253	253	254	253	252	251	250	250	253	252	252	252
Nondepository institutions	534	539	542	543	545	549	554	559	558	561	563	567	576
Mortgage bankers and brokers	242	243	244	243	243	245	249	252	252	253	252	260	265
Security and commodity brokers	579	583	586	586	592	595	600	605	610	614	619	622	627
Holding and other investment offices	216	218	218	221	220	222	225	228	231	233	236	236	235
Insurance	2,217	2,221	2,222	2,226	2,230	2,232	2,232	2,239	2,247	2,257	2,257	2,263	2,268
Insurance carriers	1,500	1,502	1,503	1,506	1,509	1,510	1,511	1,516	1,521	1,529	1,527	1,530	1,537
Insurance agents, brokers, and service	717	719	719	720	721	722	721	723	726	728	730	733	731
Real estate	1,409	1,417	1,418	1,414	1,423	1,422	1,423	1,425	1,428	1,422	1,434	1,438	1,445
Services ¹	35,176	35,334	35,451	35,522	35,684	35,702	35,850	35,945	36,102	36,276	36,417	36,532	36,577
Agricultural services	648	664	669	668	673	675	680	684	687	682	687	683	680
Hotels and other lodging places	1,746	1,756	1,752	1,744	1,747	1,747	1,756	1,765	1,763	1,759	1,772	1,766	1,766
Personal services	1,196	1,193	1,189	1,182	1,182	1,185	1,187	1,188	1,197	1,185	1,187	1,192	1,198
Business services	7,577	7,594	7,618	7,645	7,682	7,657	7,732	7,759	7,832	7,918	7,970	8,026	8,041
Services to buildings	896	902	903	903	901	894	902	903	908	908	912	914	920
Personnel supply services	2,787	2,752	2,744	2,748	2,767	2,732	2,762	2,770	2,819	2,868	2,872	2,920	2,902
Help supply services	2,457	2,419	2,409	2,407	2,425	2,395	2,423	2,427	2,484	2,520	2,515	2,571	2,555
Computer and data processing services	1,291	1,306	1,322	1,337	1,347	1,360	1,375	1,387	1,401	1,421	1,435	1,451	1,468
Auto repair, services, and parking	1,126	1,132	1,136	1,131	1,137	1,139	1,145	1,148	1,153	1,157	1,163	1,159	1,157
Miscellaneous repair services	380	382	384	386	387	388	388	388	389	390	392	393	392
Motion pictures	529	528	532	537	539	550	549	550	551	561	559	566	558
Amusement and recreation services	1,494	1,503	1,542	1,561	1,576	1,563	1,568	1,563	1,583	1,600	1,606	1,617	1,616
Health services	9,612	9,644	9,673	9,673	9,697	9,712	9,731	9,750	9,771	9,795	9,801	9,816	9,823
Offices and clinics of medical doctors	1,721	1,728	1,740	1,740	1,745	1,745	1,754	1,763	1,773	1,780	1,786	1,789	1,791
Nursing and personal care facilities	1,753	1,760	1,764	1,761	1,762	1,765	1,764	1,766	1,767	1,769	1,766	1,769	1,768
Hospitals	3,852	3,857	3,864	3,869	3,877	3,884	3,892	3,900	3,910	3,917	3,927	3,931	3,936
Home health care services	678	684	682	682	685	685	684	682	683	681	673	670	669
Legal services	946	951	952	953	957	957	962	963	968	975	975	980	982
Educational services	2,047	2,062	2,062	2,074	2,089	2,094	2,105	2,110	2,118	2,121	2,132	2,139	2,141
Social services	2,445	2,458	2,466	2,474	2,494	2,497	2,502	2,507	2,511	2,521	2,529	2,535	2,546
Child day care services	580	581	587	590	594	600	597	594	594	598	605	603	607
Residential care	690	694	695	698	702	703	707	709	711	716	717	720	725
Museums and botanical and zoological gardens	87	87	88	88	88	88	88	88	89	89	88	90	90
Membership organizations	2,193	2,199	2,201	2,202	2,209	2,206	2,202	2,204	2,199	2,209	2,214	2,218	2,220
Engineering and management services	2,934	2,965	2,971	2,988	3,010	3,027	3,038	3,061	3,074	3,096	3,125	3,134	3,150
Engineering and architectural services	866	869	869	877	878	881	886	891	893	901	907	909	913
Management and public relations	923	936	941	950	959	968	969	976	979	993	1,009	1,013	1,014
Government	19,545	19,579	19,565	19,639	19,719	19,804	19,714	19,749	19,763	19,770	19,781	19,812	19,807
Federal	2,709	2,708	2,703	2,694	2,689	2,690	2,680	2,687	2,694	2,689	2,674	2,676	2,672
Federal, except Postal Service	1,856	1,856	1,851	1,843	1,839	1,830	1,824	1,832	1,826	1,818	1,825	1,820	1,817
State	4,622	4,635	4,636	4,640	4,671	4,664	4,662	4,663	4,673	4,665	4,664	4,661	4,667
Education	1,929	1,938	1,943	1,950	1,972	1,961	1,962	1,962	1,967	1,964	1,960	1,958	1,962
Other State government	2,693	2,697	2,693	2,690	2,699	2,703	2,700	2,701	2,706	2,701	2,704	2,703	2,705
Local	12,214	12,236	12,226	12,305	12,359	12,450	12,372	12,399	12,396	12,416	12,443	12,475	12,468
Education	6,853	6,858	6,850	6,902	6,954	7,030	6,957	6,963	6,964	6,965	6,985	7,008	7,008
Other local government	5,361	5,378	5,376	5,403	5,405	5,420	5,415	5,436	5,432	5,451	5,458	5,467	5,460

¹ Includes other industries, not shown separately.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1998

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1993 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1997												1998
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total	58,539	58,618	58,740	58,904	58,987	59,125	59,332	59,378	59,452	59,576	59,774	59,956	60,034
Total private	47,729	47,791	47,907	48,048	48,130	48,215	48,370	48,343	48,487	48,582	48,771	48,924	48,989
Goods-producing	6,621	6,618	6,622	6,632	6,634	6,651	6,650	6,649	6,655	6,672	6,683	6,706	6,714
Mining	78	78	78	78	79	79	79	79	79	80	79	80	80
Construction	616	618	619	624	628	629	631	631	635	639	642	646	648
Manufacturing	5,927	5,922	5,925	5,930	5,927	5,943	5,940	5,939	5,941	5,953	5,962	5,980	5,986
Durable goods	2,856	2,857	2,861	2,867	2,868	2,884	2,890	2,899	2,901	2,914	2,925	2,937	2,949
Lumber and wood products	137	137	137	138	138	138	139	139	139	139	140	140	141
Furniture and fixtures	158	158	159	159	160	160	160	160	159	160	160	161	163
Stone, clay, and glass products	102	102	102	102	101	101	102	101	101	102	103	102	104
Primary metal industries	102	102	103	102	101	103	102	103	103	103	104	104	104
Fabricated metal products	323	322	322	324	324	326	325	327	327	327	328	330	333
Industrial machinery and equipment	463	465	467	469	471	473	475	477	478	481	482	484	485
Electronic and other electrical equipment	678	677	677	677	677	681	683	682	687	690	694	697	698
Transportation equipment	373	374	376	377	378	384	383	392	390	394	397	399	399
Instruments and related products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing	172	172	171	171	171	171	172	170	169	169	167	169	170
Nondurable goods	3,071	3,065	3,064	3,063	3,059	3,059	3,050	3,040	3,040	3,039	3,037	3,043	3,037
Food and kindred products	558	557	558	558	557	558	554	551	553	555	559	559	562
Tobacco products	13	13	13	12	13	12	13	12	13	13	13	13	13
Textile mill products	287	286	286	285	285	285	285	282	283	282	280	281	278
Apparel and other textile products	621	617	614	611	605	603	603	599	593	590	583	585	579
Paper and allied products	164	164	164	164	164	164	163	163	164	165	165	165	165
Printing and publishing	691	691	690	694	696	700	699	698	699	699	700	701	702
Chemicals and allied products	326	326	327	327	327	327	325	325	326	326	326	327	325
Petroleum and coal products	25	25	25	25	25	24	25	24	24	24	24	25	24
Rubber and misc. plastics products	335	336	336	337	337	337	335	338	338	338	340	341	343
Leather and leather products	51	50	51	50	50	49	48	48	47	47	47	46	46
Service-producing	51,918	52,000	52,118	52,272	52,353	52,474	52,682	52,729	52,797	52,904	53,091	53,250	53,320
Transportation and public utilities	1,927	1,931	1,936	1,941	1,944	1,943	1,940	1,893	1,944	1,946	1,946	1,939	1,945
Wholesale trade	2,033	2,036	2,043	2,045	2,049	2,050	2,054	2,056	2,053	2,061	2,061	2,065	2,078
Retail trade	11,536	11,523	11,562	11,603	11,609	11,633	11,679	11,687	11,700	11,719	11,799	11,827	11,824
Finance, insurance, and real estate	4,395	4,400	4,406	4,418	4,429	4,437	4,445	4,454	4,462	4,475	4,486	4,499	4,512
Services	21,217	21,283	21,338	21,409	21,465	21,501	21,602	21,604	21,673	21,709	21,796	21,888	21,916
Government	10,810	10,827	10,833	10,856	10,857	10,910	10,962	11,035	10,965	10,994	11,003	11,032	11,045
Federal	1,155	1,151	1,149	1,147	1,147	1,144	1,141	1,142	1,136	1,142	1,148	1,154	1,140
State	2,341	2,348	2,350	2,354	2,364	2,368	2,391	2,390	2,385	2,396	2,400	2,394	2,394
Local	7,314	7,328	7,334	7,355	7,346	7,398	7,430	7,503	7,444	7,456	7,455	7,484	7,511

¹ 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 1996 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1993 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-5. Production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P	Mar.P
Total private	83,476	83,664	83,865	83,965	84,243	84,097	84,447	84,624	84,986	85,265	85,474	85,736	85,666
Goods-producing	17,561	17,542	17,592	17,573	17,577	17,610	17,618	17,643	17,712	17,797	17,927	17,965	17,849
Mining	432	432	437	435	435	434	436	435	432	436	437	436	433
Construction	4,358	4,336	4,365	4,347	4,350	4,361	4,364	4,357	4,398	4,448	4,546	4,582	4,476
Manufacturing	12,771	12,774	12,790	12,791	12,792	12,815	12,818	12,851	12,882	12,913	12,944	12,947	12,940
Durable goods	7,437	7,440	7,454	7,466	7,482	7,525	7,518	7,545	7,570	7,593	7,623	7,632	7,629
Lumber and wood products	656	658	659	656	655	656	657	658	659	665	668	667	666
Furniture and fixtures	402	402	403	404	405	403	404	405	407	408	411	413	414
Stone, clay, and glass products	422	420	420	419	422	422	422	424	424	425	431	431	427
Primary metal industries	553	553	553	555	554	558	558	561	562	562	565	564	565
Fabricated metal products	1,103	1,107	1,107	1,109	1,106	1,116	1,115	1,119	1,121	1,124	1,130	1,133	1,129
Industrial machinery and equipment	1,342	1,349	1,350	1,354	1,356	1,361	1,361	1,371	1,376	1,378	1,383	1,388	1,386
Electronic and other electrical equipment	1,043	1,041	1,040	1,043	1,048	1,054	1,055	1,056	1,060	1,068	1,069	1,065	1,066
Transportation equipment	1,225	1,220	1,231	1,234	1,243	1,265	1,256	1,261	1,274	1,270	1,269	1,274	1,277
Motor vehicles and equipment	761	752	758	766	768	784	774	775	789	781	778	778	777
Instruments and related products	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Miscellaneous manufacturing	271	271	272	271	272	271	269	269	266	270	270	270	271
Nondurable goods	5,334	5,334	5,336	5,325	5,310	5,290	5,300	5,306	5,312	5,320	5,321	5,315	5,311
Food and kindred products	1,261	1,263	1,257	1,256	1,248	1,242	1,252	1,255	1,263	1,266	1,270	1,272	1,274
Tobacco products	32	31	31	31	32	31	31	32	33	31	32	32	33
Textile mill products	519	517	516	515	516	512	513	513	511	512	509	507	508
Apparel and other textile products	675	671	670	667	665	658	654	652	648	647	642	634	631
Paper and allied products	516	516	517	515	514	513	514	514	515	516	518	518	518
Printing and publishing	834	839	846	847	846	842	841	842	844	845	843	842	837
Chemicals and allied products	567	567	568	566	565	566	569	571	573	575	576	579	579
Petroleum and coal products	92	92	92	91	91	91	91	90	90	90	88	88	88
Rubber and misc. plastics products	766	767	768	767	764	767	768	769	768	772	777	777	778
Leather and leather products	72	71	71	70	69	68	67	68	67	66	66	66	65
Service-producing	65,915	66,122	66,273	66,392	66,666	66,487	66,829	66,981	67,274	67,468	67,547	67,771	67,817
Transportation and public utilities	5,397	5,412	5,420	5,421	5,419	5,226	5,417	5,427	5,415	5,397	5,423	5,420	5,443
Wholesale trade	5,340	5,339	5,348	5,347	5,368	5,374	5,377	5,396	5,407	5,420	5,444	5,453	5,454
Retail trade	19,338	19,384	19,398	19,434	19,497	19,513	19,538	19,576	19,724	19,755	19,732	19,768	19,718
Finance, insurance, and real estate	5,103	5,124	5,135	5,137	5,154	5,161	5,171	5,196	5,217	5,231	5,257	5,277	5,306
Services	30,737	30,863	30,972	31,053	31,228	31,213	31,326	31,386	31,511	31,665	31,691	31,853	31,896

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

² 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: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1993 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 industries¹												
Over 1-month span:												
1994	57.6	61.9	67.1	64.5	57.7	63.9	62.5	62.6	61.4	60.3	63.8	62.4
1995	62.4	60.1	54.5	55.6	48.0	53.9	54.1	59.8	57.0	54.9	57.2	57.9
1996	103.4	128.6	120.2	109.8	125.8	121.0	113.0	118.6	108.8	125.2	116.2	122.0
1997	59.3	59.1	59.0	61.1	57.4	50.7	58.8	58.7	56.5	64.2	61.7	61.4
1998	64.5	P 57.6	P 54.5									
Over 3-month span:												
1994	65.3	69.5	70.4	68.7	67.1	67.0	69.1	69.7	65.7	65.6	67.0	66.2
1995	65.4	62.5	58.7	53.2	54.6	52.4	57.9	59.6	59.7	59.0	57.0	56.3
1996	125.2	127.2	125.2	122.4	124.2	126.2	125.2	117.6	125.6	120.8	129.4	130.0
1997	64.6	62.2	64.2	65.6	59.7	58.7	59.1	65.0	65.3	67.3	68.4	69.9
1998	P 66.9	P 65.2										
Over 6-month span:												
1994	71.1	69.8	69.8	70.9	70.1	69.8	69.7	69.4	69.4	67.4	67.7	66.2
1995	66.9	61.4	58.1	56.6	58.1	58.1	56.7	59.8	60.3	59.1	61.5	63.3
1996	124.4	127.0	127.0	127.0	125.2	122.4	130.6	127.2	125.2	129.0	128.4	134.8
1997	67.6	66.6	64.5	64.6	64.3	66.7	67.0	68.3	70.2	72.9	P 73.2	P 70.6
1998												
Over 12-month span:												
1994	70.2	71.6	71.8	71.8	72.1	71.8	71.5	72.1	70.1	69.5	66.6	65.0
1995	63.6	62.4	62.6	63.3	61.7	61.9	58.7	62.2	62.2	61.1	62.2	63.3
1996	127.0	129.4	124.8	125.8	129.4	128.4	130.0	126.2	127.6	133.4	131.4	130.0
1997	67.3	66.2	69.4	70.4	70.1	69.5	71.3	P 71.9	P 70.8			
1998												
Manufacturing payrolls, 139 industries¹												
Over 1-month span:												
1994	55.8	59.0	60.4	58.6	52.9	58.6	59.4	56.1	52.9	55.0	58.6	58.3
1995	54.3	56.1	44.2	51.4	42.1	42.8	43.5	52.2	47.1	50.0	47.5	50.7
1996	91.4	108.6	95.6	78.4	104.4	104.4	88.4	105.8	88.4	101.4	99.2	104.4
1997	54.0	50.4	52.9	52.9	51.4	49.3	51.8	49.6	54.3	57.6	59.4	57.2
1998	60.8	P 49.3	P 50.7									
Over 3-month span:												
1994	61.9	64.7	65.5	59.7	57.6	60.1	62.2	57.9	55.0	55.4	60.1	59.4
1995	59.7	50.4	47.5	40.3	42.4	36.3	38.5	43.9	49.3	46.4	45.3	43.9
1996	95.0	95.6	84.2	77.0	86.4	90.0	97.8	86.4	100.8	92.8	105.0	105.0
1997	53.2	51.4	50.7	52.5	48.6	48.9	48.6	53.6	55.8	62.9	64.0	67.3
1998	P 60.4	P 57.6										
Over 6-month span:												
1994	62.2	62.2	62.6	63.3	59.4	56.5	56.5	58.6	58.6	55.0	58.3	55.0
1995	55.8	48.6	43.9	38.8	39.2	39.6	38.8	39.6	43.9	45.0	44.2	44.6
1996	82.8	83.4	82.0	76.2	79.2	81.2	95.0	93.6	90.6	100.8	96.4	106.4
1997	53.2	53.2	50.4	49.3	48.6	52.2	55.0	58.3	60.8	65.1	P 67.3	P 64.0
1998												
Over 12-month span:												
1994	57.9	58.6	60.8	60.8	60.8	63.3	59.4	60.1	57.2	56.5	50.4	49.6
1995	46.0	44.2	46.0	47.8	41.0	41.7	38.5	38.8	36.3	37.4	38.1	39.9
1996	79.2	85.6	78.4	79.2	84.8	80.6	87.0	80.6	87.0	93.6	92.8	94.2
1997	51.4	47.8	52.2	55.0	57.6	55.8	57.2	P 58.3	P 59.0			
1998												

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

P = preliminary.

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

where 50 percent indicates an equal balance between industries with increasing and decreasing employment. Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1996) and all seasonally adjusted data (beginning January 1993) are subject to revision.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
	Total ¹												
Alabama	1,852.2	1,859.4	1,859.6	1,864.2	1,864.9	1,869.9	1,869.5	1,869.5	1,870.7	1,871.0	1,871.9	1,876.5	1,875.8
Alaska	266.5	267.0	267.7	269.2	268.9	270.2	269.5	269.0	268.1	268.8	268.3	270.2	273.2
Arizona	1,946.9	1,956.8	1,961.2	1,968.7	1,975.3	1,972.4	1,983.3	1,994.0	2,000.5	2,011.8	2,021.9	2,031.5	2,039.9
Arkansas	1,093.8	1,096.1	1,100.4	1,101.6	1,100.3	1,103.4	1,106.8	1,106.1	1,107.2	1,110.6	1,111.6	1,110.5	1,113.0
California	12,959.7	13,011.6	13,089.3	13,118.1	13,150.0	13,203.2	13,224.5	13,277.7	13,318.5	13,367.0	13,398.3	13,401.2	13,437.5
Colorado	1,949.1	1,954.8	1,962.7	1,971.9	1,977.8	1,989.2	1,985.8	1,996.8	2,001.8	2,003.3	2,009.5	2,017.8	2,020.1
Connecticut	1,603.9	1,605.6	1,608.8	1,609.3	1,611.1	1,611.9	1,616.1	1,621.7	1,627.2	1,634.6	1,642.6	1,639.6	1,642.0
Delaware	383.3	384.3	384.8	385.1	386.2	388.1	390.1	391.4	392.5	393.6	395.5	394.6	396.5
District of Columbia	618.7	618.6	615.9	613.0	612.9	619.1	614.7	614.8	612.9	610.8	610.4	613.1	609.7
Florida	6,323.7	6,337.4	6,371.6	6,393.5	6,410.8	6,439.7	6,458.7	6,487.4	6,508.8	6,534.1	6,551.6	6,566.0	6,578.3
Georgia	3,574.5	3,585.9	3,585.0	3,593.2	3,593.8	3,613.6	3,626.1	3,649.9	3,664.2	3,674.8	3,690.0	3,690.7	3,704.4
Hawaii	532.0	531.6	531.5	531.2	531.6	531.3	533.0	534.6	533.4	532.8	530.5	528.6	528.5
Idaho	503.3	504.4	506.2	508.2	508.8	512.6	511.5	510.2	512.9	513.5	514.0	515.1	514.4
Illinois	5,729.7	5,740.4	5,743.2	5,762.1	5,759.6	5,784.6	5,783.4	5,795.4	5,816.0	5,823.5	5,833.8	5,837.8	5,834.2
Indiana	2,846.9	2,851.6	2,857.1	2,859.1	2,857.9	2,861.8	2,862.4	2,866.2	2,868.9	2,873.9	2,884.0	2,874.6	2,880.7
Iowa	1,395.0	1,396.1	1,396.6	1,404.9	1,406.5	1,407.8	1,404.7	1,406.4	1,419.1	1,416.9	1,419.2	1,423.0	1,424.5
Kansas	1,250.5	1,255.1	1,259.0	1,266.1	1,268.4	1,270.8	1,274.3	1,275.6	1,281.9	1,282.8	1,287.4	1,291.5	1,293.4
Kentucky	1,698.5	1,702.2	1,707.7	1,706.6	1,711.1	1,717.1	1,718.6	1,722.5	1,720.3	1,726.2	1,732.0	1,738.5	1,736.6
Louisiana	1,830.3	1,835.6	1,840.2	1,841.6	1,843.1	1,854.0	1,855.1	1,858.5	1,863.9	1,867.7	1,869.8	1,870.5	1,874.2
Maine	547.0	549.1	548.6	550.0	552.6	554.6	555.2	557.1	558.5	560.8	561.4	558.1	561.0
Maryland	2,248.6	2,254.2	2,253.9	2,258.0	2,259.1	2,258.9	2,255.5	2,258.2	2,263.3	2,272.1	2,273.8	2,282.0	2,282.5
Massachusetts	3,089.2	3,099.1	3,099.0	3,106.7	3,110.8	3,121.3	3,125.8	3,134.4	3,144.8	3,157.6	3,168.4	3,173.0	3,185.2
Michigan	4,418.2	4,432.1	4,439.2	4,452.6	4,442.4	4,447.0	4,451.3	4,462.8	4,473.4	4,471.1	4,489.6	4,495.7	4,508.8
Minnesota	2,461.0	2,464.4	2,468.4	2,476.9	2,482.6	2,491.9	2,496.0	2,498.1	2,504.5	2,512.6	2,518.5	2,514.1	2,521.4
Mississippi	1,097.5	1,100.6	1,101.5	1,104.4	1,100.7	1,109.4	1,111.0	1,110.5	1,112.7	1,113.1	1,112.6	1,117.6	1,119.2
Missouri	2,617.6	2,624.7	2,626.3	2,634.2	2,640.3	2,637.9	2,643.2	2,645.0	2,649.5	2,652.0	2,658.9	2,664.4	2,664.4
Montana	362.7	362.9	362.9	365.2	363.0	367.5	367.9	368.2	368.6	369.0	370.3	368.7	370.6
Nebraska	844.6	849.5	848.7	850.8	853.3	861.0	859.3	861.8	864.0	866.4	868.6	874.0	877.3
Nevada	878.2	879.7	880.4	885.4	890.2	891.9	893.8	898.7	901.9	904.2	907.2	907.0	911.8
New Hampshire	562.9	563.8	565.9	569.1	568.7	573.8	572.4	570.5	573.4	572.5	570.0	572.7	572.4
New Jersey	3,695.9	3,701.9	3,709.2	3,712.7	3,719.9	3,728.0	3,724.1	3,746.9	3,748.4	3,758.2	3,766.5	3,771.3	3,783.8
New Mexico	701.3	702.4	703.9	707.0	708.5	709.1	709.5	709.1	712.2	713.3	713.9	712.7	714.2
New York	7,983.5	8,004.3	8,007.6	8,013.8	8,014.4	8,030.1	8,032.9	8,057.7	8,075.7	8,083.4	8,095.6	8,082.4	8,097.9
North Carolina	3,623.2	3,633.0	3,642.6	3,652.1	3,656.1	3,681.5	3,694.9	3,697.4	3,704.2	3,716.8	3,715.4	3,719.6	3,733.1
North Dakota	312.4	311.9	312.1	312.1	311.3	313.6	313.6	314.1	314.4	315.1	316.2	317.4	318.8
Ohio	5,345.5	5,358.5	5,373.6	5,386.4	5,388.5	5,384.3	5,394.1	5,405.7	5,409.0	5,417.1	5,421.7	5,439.2	5,438.4
Oklahoma	1,376.3	1,380.0	1,379.2	1,383.8	1,381.6	1,384.9	1,388.7	1,397.7	1,397.3	1,403.4	1,405.1	1,405.7	1,410.3
Oregon	1,510.9	1,514.1	1,519.6	1,525.8	1,525.7	1,528.6	1,527.0	1,532.2	1,537.8	1,536.9	1,551.0	1,551.8	1,555.4
Pennsylvania	5,380.1	5,384.0	5,383.4	5,393.3	5,385.0	5,396.8	5,395.4	5,421.7	5,425.9	5,434.4	5,446.5	5,453.9	5,457.2
Rhode Island	446.0	447.5	448.5	449.0	448.1	449.8	449.7	452.3	451.9	451.1	453.4	452.7	454.6
South Carolina	1,707.8	1,711.3	1,710.8	1,713.6	1,715.5	1,724.1	1,725.9	1,727.8	1,730.6	1,735.0	1,749.1	1,763.5	1,766.1
South Dakota	351.4	351.8	352.0	355.4	352.4	356.5	355.6	355.8	356.3	355.7	356.1	354.9	355.2
Tennessee	2,561.4	2,566.6	2,578.6	2,579.5	2,588.7	2,589.3	2,587.3	2,590.4	2,595.9	2,603.0	2,605.3	2,618.6	2,612.2
Texas	8,474.3	8,511.9	8,533.3	8,568.7	8,592.0	8,626.0	8,655.9	8,682.6	8,703.4	8,732.1	8,760.7	8,755.4	8,801.2
Utah	980.6	985.2	987.1	991.8	992.7	997.1	997.4	1,002.1	1,003.7	1,010.6	1,014.3	1,015.6	1,019.2
Vermont	277.3	277.1	277.7	278.4	278.4	279.7	279.2	279.4	279.5	279.7	281.4	279.3	279.7
Virginia	3,205.2	3,212.7	3,212.1	3,218.1	3,226.3	3,225.6	3,232.5	3,240.2	3,259.8	3,267.2	3,278.7	3,280.0	3,292.7
Washington	2,478.7	2,484.1	2,496.6	2,507.0	2,513.9	2,526.0	2,522.8	2,525.5	2,529.9	2,534.5	2,543.6	2,546.0	2,558.9
West Virginia	704.9	705.6	706.0	705.6	706.7	706.1	706.9	708.7	716.9	717.7	717.1	715.3	715.8
Wisconsin	2,629.4	2,628.0	2,636.8	2,647.0	2,650.1	2,657.7	2,662.5	2,668.0	2,674.5	2,679.4	2,684.9	2,691.4	2,692.4
Wyoming	222.1	222.9	222.8	224.1	223.1	226.5	226.7	223.2	223.4	223.2	223.0	222.8	222.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997												1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P	
	Construction													
Alabama	96.1	96.5	97.0	97.6	97.6	97.3	96.9	97.0	96.6	96.5	96.2	97.1	97.8	
Alaska	12.8	12.5	12.8	13.0	12.9	12.9	12.8	12.5	12.4	12.7	12.8	12.8	13.0	
Arizona	128.3	128.7	129.7	130.3	130.0	131.9	131.2	131.4	131.8	131.4	131.6	134.5	133.1	
Arkansas	46.6	46.4	47.5	48.2	47.7	48.0	47.9	47.4	48.0	48.0	48.1	47.5	47.5	
California	534.8	541.9	543.7	548.2	548.2	557.2	562.1	566.1	570.2	573.1	577.9	583.4	584.1	
Colorado	115.6	116.6	117.4	118.9	119.3	119.6	120.0	121.2	121.6	118.0	122.1	127.3	127.6	
Connecticut	56.9	56.5	56.3	56.3	56.3	56.3	56.3	57.2	57.7	58.1	58.9	60.1	60.1	
Delaware	22.8	22.1	21.5	21.2	21.6	21.1	21.3	21.6	21.9	22.2	22.5	23.1	22.8	
District of Columbia	9.4	9.4	9.1	8.9	8.9	9.0	8.9	8.8	8.8	8.4	8.8	8.7	8.8	
Florida	327.8	328.1	329.0	329.6	330.3	335.4	335.7	335.4	337.6	339.3	339.9	340.5	340.8	
Georgia	165.5	165.6	165.9	166.4	165.9	169.0	170.9	171.9	172.2	173.3	175.2	177.2	177.5	
Hawaii ²	23.1	22.8	22.5	22.3	22.1	22.2	22.0	22.0	22.0	21.9	21.8	21.9	21.9	
Idaho	31.5	31.7	31.9	32.2	32.2	32.2	32.4	32.7	32.6	32.5	32.3	32.7	32.9	
Illinois	227.3	230.3	234.3	234.7	233.0	234.8	237.2	238.2	238.2	239.3	239.1	239.8	240.8	
Indiana	140.2	141.2	141.2	141.2	140.8	139.8	139.7	139.8	140.6	142.3	142.9	143.3	143.8	
Iowa	58.6	59.2	58.0	60.1	60.5	61.0	60.6	60.3	60.2	60.5	61.0	60.1	60.4	
Kansas	57.7	58.4	57.8	59.7	59.5	58.9	59.2	59.1	59.3	59.4	59.3	60.7	60.7	
Kentucky	81.3	81.3	81.5	81.1	80.2	81.6	83.3	82.1	82.1	81.6	82.3	85.2	83.6	
Louisiana	115.6	115.9	116.7	116.4	117.5	118.0	118.7	117.8	117.8	117.4	117.1	117.9	118.0	
Maine	23.9	23.8	23.5	23.5	23.5	23.9	24.0	24.0	24.2	24.4	24.4	24.4	24.4	
Maryland	139.5	138.4	138.3	138.3	138.1	137.6	137.6	137.2	138.5	139.7	140.3	140.6	140.2	
Massachusetts	101.0	101.3	98.9	98.4	98.3	100.2	100.7	99.0	99.7	102.5	104.4	107.9	109.0	
Michigan	174.9	176.2	180.3	180.8	181.0	181.2	182.7	182.5	183.7	184.1	186.1	184.8	186.6	
Minnesota	92.7	92.0	92.4	93.6	93.3	93.4	93.9	94.2	94.5	95.7	96.3	97.6	99.3	
Mississippi	49.0	49.4	49.3	50.1	50.0	51.5	51.6	51.7	52.4	51.6	51.5	52.7	52.7	
Missouri	120.0	120.5	120.3	121.3	120.6	121.6	123.5	124.6	124.6	125.2	124.9	123.1	125.5	
Montana	16.8	16.6	16.8	17.8	17.4	18.4	19.0	18.5	18.5	18.6	18.9	18.9	19.0	
Nebraska	37.1	37.9	37.7	37.8	38.3	38.9	38.8	38.9	39.2	39.2	40.9	42.8	42.4	
Nevada	80.4	80.8	80.9	81.8	81.8	82.0	82.5	82.8	83.4	83.7	84.0	85.1	85.2	
New Hampshire	20.8	20.9	20.9	21.2	20.9	21.1	21.3	21.5	21.2	21.0	21.4	21.8	21.9	
New Jersey	130.7	131.1	130.8	130.2	130.4	131.3	131.5	131.5	131.2	131.8	131.9	135.6	136.9	
New Mexico	42.4	42.7	42.5	42.8	42.8	42.5	42.8	42.6	42.3	42.2	42.2	42.1	42.2	
New York	261.7	264.7	263.1	262.8	262.3	262.1	264.1	265.3	267.9	267.8	268.1	265.6	268.6	
North Carolina	201.9	202.0	202.1	202.0	201.7	204.4	205.5	206.7	207.2	207.9	208.7	211.7	208.9	
North Dakota	14.3	14.2	14.4	14.9	15.0	15.5	14.9	14.7	14.7	14.8	14.9	15.1	15.2	
Ohio	221.4	221.5	223.6	224.1	222.9	222.6	224.6	224.9	225.0	225.4	225.3	226.7	228.6	
Oklahoma	50.8	51.5	50.1	50.2	49.9	50.5	50.5	50.8	50.6	50.9	50.8	51.8	52.0	
Oregon	80.4	80.2	81.3	82.2	82.5	81.9	82.5	83.0	82.7	83.1	84.6	82.3	83.7	
Pennsylvania	213.7	214.6	214.0	213.0	212.2	212.3	213.0	213.9	214.7	216.4	217.1	218.4	218.4	
Rhode Island	14.4	14.6	14.4	14.4	14.3	14.4	14.6	14.9	14.9	14.9	15.1	15.4	15.6	
South Carolina	99.3	99.3	99.4	98.8	98.6	99.7	100.4	100.7	101.1	101.6	103.3	104.9	105.0	
South Dakota	14.6	14.6	14.2	15.0	15.2	15.5	15.6	15.5	15.6	15.7	15.9	15.9	16.0	
Tennessee	116.3	116.2	117.0	116.2	115.1	116.0	116.6	116.9	117.4	117.8	118.1	117.0	114.4	
Texas	452.4	453.2	453.1	456.4	457.9	459.6	462.5	463.2	462.4	464.5	467.0	468.1	475.8	
Utah	62.2	63.2	64.0	65.2	65.3	65.5	65.4	65.1	64.7	65.8	66.5	65.7	66.3	
Vermont	12.7	12.8	12.9	12.9	13.0	13.2	13.3	13.1	12.9	12.8	13.3	12.7	12.6	
Virginia	186.8	186.5	183.9	185.2	184.7	185.1	185.7	185.1	187.3	188.3	189.0	190.2	191.4	
Washington	135.0	133.2	135.4	136.0	136.4	136.9	137.0	136.3	136.1	136.8	136.6	137.7	137.7	
West Virginia	35.7	35.4	35.3	34.6	34.6	34.3	34.5	34.6	35.4	35.6	35.5	36.2	35.8	
Wisconsin	107.4	106.8	107.7	108.9	109.0	109.5	109.3	108.8	108.9	109.4	110.0	110.2	111.8	
Wyoming	14.4	14.6	14.5	15.2	15.3	15.5	15.6	15.4	14.9	15.2	14.9	14.9	15.2	

See footnotes at end of table.

ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED

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

(In thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
	Manufacturing												
Alabama	380.8	383.0	380.8	380.9	379.8	381.2	382.2	380.0	378.7	378.7	378.6	380.2	380.0
Alaska	15.9	16.3	16.0	15.5	15.5	15.4	14.8	14.7	15.0	15.5	13.9	15.5	16.5
Arizona	204.3	204.3	203.8	204.7	205.2	206.9	208.1	209.3	210.1	211.6	212.9	214.7	214.9
Arkansas	253.0	252.2	253.4	253.8	253.7	253.0	253.4	252.9	253.5	253.3	254.0	255.5	255.4
California	1,886.4	1,892.2	1,901.0	1,907.8	1,913.9	1,925.8	1,925.8	1,927.4	1,935.0	1,936.5	1,941.6	1,943.2	1,947.4
Colorado	201.0	201.7	202.3	202.7	202.8	204.0	204.6	205.1	205.8	206.6	207.7	206.9	208.6
Connecticut	275.1	275.0	276.2	275.9	276.2	278.2	277.2	276.6	276.5	276.0	276.3	277.1	277.2
Delaware	56.7	57.0	57.4	57.5	56.6	56.6	57.5	57.9	58.3	58.4	58.7	56.7	57.2
District of Columbia	12.8	12.7	12.6	12.7	12.5	12.5	12.6	12.5	12.6	12.6	12.6	12.8	12.7
Florida	490.4	490.2	491.2	491.0	490.2	492.3	492.3	491.9	491.7	491.5	491.9	491.8	491.7
Georgia	588.0	588.4	589.0	589.4	588.5	588.9	587.8	587.5	588.1	589.3	590.0	589.1	587.8
Hawaii	16.8	16.8	16.7	16.7	16.7	16.8	16.7	16.4	16.4	16.5	16.5	16.5	16.4
Idaho	74.0	74.0	74.4	74.2	74.4	74.1	74.5	74.8	75.2	75.5	75.8	76.4	77.1
Illinois	969.5	968.8	969.8	970.6	968.2	975.9	977.7	978.8	983.3	979.5	980.9	981.3	980.5
Indiana	677.4	676.8	678.2	677.4	675.9	676.8	677.5	675.2	678.0	678.4	679.6	678.6	680.2
Iowa	251.1	250.7	251.5	253.0	253.6	253.9	255.2	254.4	256.3	256.1	256.3	256.5	257.2
Kansas	202.4	203.3	204.3	204.5	205.9	206.3	206.9	207.3	207.1	208.4	208.9	209.7	209.9
Kentucky	313.2	315.6	316.1	314.6	317.4	318.6	319.5	320.2	315.6	315.9	316.7	318.6	318.5
Louisiana	189.5	189.6	190.2	191.6	190.8	191.3	191.0	190.7	190.0	190.7	190.8	190.8	190.2
Maine	87.1	87.6	87.2	87.6	87.7	87.3	87.9	87.6	87.5	87.8	88.1	88.1	88.3
Maryland	176.9	177.0	176.8	176.7	176.1	175.3	176.0	173.5	173.6	176.6	176.7	176.6	178.2
Massachusetts	445.0	445.7	446.5	447.0	447.7	448.9	448.7	448.2	450.2	451.6	452.9	455.8	457.0
Michigan	969.2	970.9	967.3	967.4	963.3	964.1	967.8	963.3	969.8	970.7	969.3	970.9	972.6
Minnesota	430.6	431.4	431.4	432.4	433.0	434.5	435.1	434.9	437.5	439.3	440.4	440.7	438.7
Mississippi	241.4	242.2	241.6	242.4	241.3	242.5	240.4	239.3	240.3	241.2	241.1	241.8	242.5
Missouri	417.7	418.3	417.5	417.9	418.9	416.4	422.1	418.6	420.8	419.8	420.2	426.7	420.1
Montana	24.0	24.2	24.1	24.2	24.0	24.1	24.3	24.3	24.4	24.5	24.3	24.4	24.5
Nebraska	115.1	115.6	115.7	114.7	115.9	118.0	116.0	116.2	116.5	116.8	117.0	117.7	118.3
Nevada	39.9	40.0	40.1	40.3	40.4	40.4	40.7	40.9	40.9	41.2	41.4	41.7	41.9
New Hampshire	105.7	105.8	106.2	106.6	106.8	107.4	107.3	107.7	107.7	107.7	108.1	108.8	108.5
New Jersey	481.8	481.2	482.4	481.1	480.8	481.9	482.4	482.0	481.6	483.5	484.4	486.0	484.9
New Mexico	45.8	45.8	45.8	46.1	45.9	46.4	46.9	46.9	47.1	47.3	47.3	46.9	46.7
New York	921.5	921.6	921.4	920.4	917.7	921.3	921.7	921.6	922.3	923.3	925.1	923.0	920.1
North Carolina	836.7	837.1	834.4	834.9	834.2	835.6	831.4	834.0	834.2	834.7	833.5	833.1	833.3
North Dakota	22.7	22.9	23.0	23.0	23.2	23.5	23.8	23.4	23.6	23.7	23.6	24.0	23.9
Ohio	1,088.1	1,090.1	1,090.8	1,092.1	1,090.5	1,082.2	1,090.0	1,090.1	1,090.5	1,090.8	1,093.8	1,095.3	1,096.3
Oklahoma	179.0	179.0	176.5	177.5	181.2	181.2	181.1	181.6	182.2	183.2	183.7	184.2	184.3
Oregon	241.2	242.3	242.8	245.3	244.1	244.3	242.1	243.7	245.6	246.2	246.7	247.0	247.3
Pennsylvania	934.7	935.0	935.4	937.3	936.5	936.4	935.4	938.7	939.3	938.6	938.6	943.0	942.2
Rhode Island	80.0	80.0	79.8	79.9	79.6	79.8	79.3	79.7	79.3	78.8	80.1	79.4	79.7
South Carolina	363.2	362.7	362.3	363.3	362.8	362.3	362.2	361.5	361.8	362.1	362.2	362.2	361.3
South Dakota	48.8	49.0	49.4	49.7	49.9	50.2	49.3	49.3	49.7	49.7	49.9	49.0	48.7
Tennessee	516.8	516.3	518.4	516.6	517.1	517.3	517.1	515.3	516.0	517.5	517.7	517.8	518.1
Texas	1,069.8	1,074.0	1,075.9	1,079.1	1,081.9	1,085.2	1,086.3	1,087.8	1,089.0	1,091.8	1,093.9	1,093.3	1,093.7
Utah	131.8	132.2	132.5	132.8	132.6	133.3	133.4	133.7	133.6	134.0	134.0	135.1	135.2
Vermont	46.3	46.3	46.0	46.3	46.2	46.5	46.5	46.7	46.9	46.9	47.2	47.3	47.3
Virginia	402.1	402.7	403.8	403.8	403.0	403.8	404.1	403.9	405.3	405.3	405.8	406.4	406.4
Washington	361.5	363.3	364.8	367.1	369.6	372.0	373.2	374.2	373.8	375.1	376.0	376.5	377.5
West Virginia	81.5	81.7	81.6	81.5	81.4	80.8	81.6	81.1	82.2	82.4	82.7	83.0	83.0
Wisconsin	603.1	603.8	605.6	608.8	609.3	610.3	612.3	612.6	614.4	615.8	617.4	620.8	619.4
Wyoming	10.5	10.6	10.7	10.8	10.8	10.8	10.8	11.0	10.9	10.9	10.9	10.9	10.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
	Transportation and public utilities												
Alabama	91.0	91.2	91.4	91.3	91.3	91.3	89.6	91.5	91.4	90.7	91.0	91.6	91.5
Alaska	23.4	23.6	23.7	24.1	24.0	24.0	24.2	24.3	24.3	24.0	24.4	24.4	24.7
Arizona	94.4	95.2	96.0	96.5	96.8	95.4	92.5	96.4	96.0	97.0	97.8	98.2	96.9
Arkansas	64.7	64.9	65.2	65.4	65.3	65.9	64.7	66.1	66.6	66.9	67.2	67.1	67.4
California	653.8	656.1	659.7	662.5	664.4	665.5	642.8	669.1	672.7	675.4	675.1	675.6	676.6
Colorado	121.5	120.7	122.1	122.1	122.2	121.8	118.7	121.7	122.0	121.8	121.2	122.5	122.6
Connecticut	74.4	74.5	75.1	74.6	74.7	74.2	71.9	74.8	75.0	75.3	75.7	75.3	75.8
Delaware	15.6	15.5	15.5	15.6	15.7	16.0	15.9	15.7	15.8	15.7	15.8	15.5	15.6
District of Columbia	17.7	17.7	17.8	17.8	17.8	17.7	17.7	17.5	17.5	17.5	17.5	17.7	17.3
Florida	324.1	325.0	326.3	326.5	327.1	328.8	321.8	330.3	330.3	330.9	332.2	335.6	336.1
Georgia	226.8	227.9	229.0	229.6	229.9	231.3	226.5	233.6	234.8	235.7	236.4	236.3	237.6
Hawaii	41.5	41.6	41.5	41.4	41.2	41.7	41.5	41.4	41.4	41.5	41.0	41.1	41.2
Idaho	23.9	24.1	24.1	24.1	24.3	24.0	23.9	24.0	23.9	24.1	24.2	24.7	24.4
Illinois	337.0	337.3	336.6	337.8	338.8	336.1	323.3	338.9	340.3	340.8	342.0	342.0	340.8
Indiana	141.0	141.3	141.2	141.0	140.3	138.8	136.1	140.2	140.4	140.7	141.5	142.3	142.3
Iowa	64.9	64.9	65.9	66.0	65.8	65.3	62.9	65.4	66.2	66.5	66.7	66.9	67.0
Kansas	71.6	71.9	72.0	72.2	71.9	71.9	72.5	72.8	73.0	73.0	72.9	72.9	72.8
Kentucky	97.1	96.9	97.5	97.3	97.3	97.1	90.9	97.7	98.5	98.6	99.4	99.5	99.6
Louisiana	109.3	109.5	110.0	110.0	110.2	111.2	109.7	111.5	111.8	111.8	112.1	111.7	112.5
Maine	23.2	23.1	23.1	23.1	23.4	23.5	22.5	23.5	23.4	23.4	23.5	23.5	23.9
Maryland	106.6	106.8	107.2	107.3	107.2	106.7	102.5	106.6	105.7	105.9	106.3	105.3	106.0
Massachusetts	131.8	132.4	133.2	133.5	133.3	134.9	131.3	135.7	137.0	136.0	135.3	136.8	137.0
Michigan	172.8	172.9	173.2	173.3	173.5	173.8	169.6	174.4	174.7	175.1	175.3	175.4	174.6
Minnesota	122.4	122.6	123.3	123.8	123.8	123.8	120.8	124.8	125.2	125.3	126.0	125.9	125.4
Mississippi	52.8	52.8	52.8	52.9	52.9	52.9	51.5	53.0	53.4	53.6	53.5	54.1	53.9
Missouri	164.6	164.6	164.9	165.4	165.8	165.3	162.0	164.6	164.0	163.6	164.3	165.9	165.5
Montana	21.1	21.1	21.0	21.1	21.1	20.9	20.4	21.1	21.2	21.4	21.3	21.5	21.5
Nebraska	51.9	52.6	53.1	53.7	53.8	53.7	53.8	54.8	54.2	54.4	54.6	54.9	55.0
Nevada	44.1	44.5	45.0	45.5	45.8	46.0	44.9	46.4	46.6	46.7	46.7	46.7	47.0
New Hampshire	19.4	19.4	19.4	19.5	19.5	19.8	19.7	19.4	19.3	19.4	19.4	19.7	19.4
New Jersey	256.4	256.6	257.3	257.1	257.5	258.3	248.1	258.5	259.9	259.4	260.4	260.4	261.7
New Mexico	31.7	31.6	31.9	32.1	32.1	32.0	31.8	32.1	32.7	32.6	32.5	32.5	32.5
New York	408.8	409.2	408.9	409.0	409.0	408.2	395.2	410.5	411.3	410.6	410.7	411.7	410.7
North Carolina	170.0	170.2	171.0	171.0	170.9	170.3	164.1	169.8	170.8	171.0	170.9	171.0	171.1
North Dakota	18.3	18.1	18.3	18.3	18.2	18.1	18.1	18.0	18.0	18.0	18.0	18.3	18.1
Ohio	233.4	233.8	234.6	234.8	234.6	233.8	226.0	234.5	234.6	233.8	233.3	235.4	235.7
Oklahoma	77.9	78.0	78.5	78.7	79.0	79.5	78.6	79.9	80.3	80.7	80.9	80.7	81.3
Oregon	74.2	74.4	74.9	74.6	74.8	74.1	71.2	74.6	74.5	74.6	74.4	74.5	74.2
Pennsylvania	278.5	279.0	278.4	278.6	279.1	278.3	267.1	279.9	279.3	278.4	278.2	281.0	281.4
Rhode Island	15.4	15.4	15.4	15.5	15.5	15.6	14.8	15.5	15.5	15.7	15.9	15.4	15.9
South Carolina	74.7	74.8	75.4	75.2	74.8	75.9	73.8	76.0	76.2	76.5	76.9	75.8	76.0
South Dakota	16.4	16.4	16.2	16.4	16.4	16.4	15.7	16.2	16.1	15.9	15.8	16.1	16.1
Tennessee	149.7	149.8	150.5	150.7	150.7	150.7	146.4	150.6	150.6	150.4	150.1	153.1	152.9
Texas	502.8	504.0	509.3	512.0	514.6	517.2	510.0	519.9	522.4	524.7	526.0	527.8	530.7
Utah	55.4	55.7	56.0	56.0	55.7	56.5	54.4	56.8	56.9	57.3	57.7	57.4	57.5
Vermont	12.2	12.3	12.2	12.1	12.2	12.3	11.9	12.2	12.3	12.3	12.3	12.4	12.5
Virginia	165.5	165.4	166.6	167.2	167.7	168.2	164.8	168.8	170.4	170.7	171.3	170.9	171.8
Washington	132.3	133.0	133.6	134.2	134.2	133.9	131.0	133.6	133.7	133.9	133.9	135.6	136.4
West Virginia	38.7	38.9	38.9	38.9	38.8	38.8	38.1	39.0	39.0	39.2	38.8	39.2	38.7
Wisconsin	123.6	123.4	124.3	124.4	124.2	123.4	119.1	123.1	123.1	123.0	122.5	124.0	124.1
Wyoming	13.9	14.0	13.9	13.9	13.9	13.9	13.8	13.9	13.9	14.0	13.9	13.7	13.7

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	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
	Trade												
Alabama	424.9	426.8	425.7	427.2	427.5	428.0	428.1	428.0	428.8	429.2	429.4	430.3	430.4
Alaska	55.0	55.0	55.4	55.7	56.1	56.5	56.4	55.7	55.0	54.9	55.4	55.9	56.3
Arizona	476.0	478.2	477.5	478.3	479.8	478.4	480.8	480.9	483.3	487.8	491.3	496.7	497.6
Arkansas	250.3	251.6	251.5	251.6	250.9	251.5	251.9	252.4	252.2	253.7	252.7	251.6	251.3
California	3,014.1	3,023.9	3,044.6	3,050.9	3,058.5	3,066.6	3,070.3	3,073.8	3,081.6	3,100.1	3,106.6	3,091.3	3,107.2
Colorado	476.8	478.1	479.1	480.5	481.4	483.8	484.4	483.0	484.3	486.6	486.5	489.5	492.0
Connecticut	350.3	351.7	351.2	352.2	352.7	352.7	353.9	355.0	356.6	359.6	362.3	360.2	360.2
Delaware	85.5	85.8	85.3	85.2	85.0	85.1	85.3	85.4	85.7	85.9	86.1	86.7	87.8
District of Columbia	49.5	49.5	48.0	47.6	47.5	48.5	48.4	48.4	48.6	48.6	48.8	48.6	48.2
Florida	1,633.1	1,634.7	1,637.9	1,642.7	1,645.1	1,648.4	1,656.8	1,663.4	1,670.0	1,675.7	1,680.9	1,678.4	1,683.2
Georgia	903.5	908.3	904.6	907.0	906.4	912.0	919.2	923.2	926.0	929.1	932.4	931.9	935.1
Hawaii	134.9	134.9	135.2	135.2	134.8	134.2	134.3	134.7	134.9	134.7	134.4	133.8	133.7
Idaho	128.2	128.2	128.6	129.0	128.8	128.9	128.1	128.4	128.7	129.4	129.7	129.6	129.9
Illinois	1,320.3	1,321.9	1,320.7	1,323.6	1,322.4	1,323.8	1,323.8	1,323.4	1,330.1	1,331.7	1,336.8	1,339.7	1,335.6
Indiana	681.3	682.0	681.5	681.5	681.4	683.7	684.7	682.7	682.9	682.9	681.9	676.9	682.9
Iowa	344.1	344.2	342.6	345.6	344.9	345.3	344.4	344.5	348.7	348.5	347.7	347.8	346.7
Kansas	305.5	306.2	306.9	308.5	309.2	310.8	311.8	311.3	313.3	313.6	314.4	314.7	316.1
Kentucky	407.9	407.7	408.4	408.7	409.7	409.0	411.8	409.7	410.2	414.4	416.1	416.2	417.1
Louisiana	426.9	429.4	428.3	427.5	426.2	430.1	430.6	429.6	433.1	434.7	436.2	434.7	436.5
Maine	136.9	137.8	138.3	138.7	139.6	140.2	140.6	141.2	141.7	142.8	142.4	140.4	139.9
Maryland	536.5	537.9	534.7	534.9	534.4	533.4	534.1	533.6	536.2	539.1	539.1	543.2	541.1
Massachusetts	705.8	709.3	705.0	705.5	705.6	709.9	713.4	715.6	717.4	722.0	723.6	727.4	728.7
Michigan	1,037.4	1,040.8	1,040.0	1,044.1	1,044.0	1,049.1	1,047.2	1,048.6	1,049.7	1,047.9	1,050.9	1,050.2	1,055.8
Minnesota	594.9	595.8	595.8	597.5	599.3	602.6	603.6	603.6	605.0	607.0	608.6	605.1	605.8
Mississippi	235.9	236.7	236.6	236.5	236.3	237.7	238.5	238.5	238.2	238.0	237.8	238.7	238.4
Missouri	621.0	622.3	622.0	622.3	623.4	623.4	623.3	624.2	625.0	625.4	626.4	625.4	626.9
Montana	98.6	98.6	98.2	98.7	99.0	100.0	99.9	99.7	99.2	99.3	99.4	98.8	99.3
Nebraska	208.3	208.8	208.6	210.0	209.7	210.9	210.8	211.4	211.5	212.0	211.7	214.5	214.3
Nevada	176.5	177.1	177.1	177.9	178.2	179.8	180.4	181.1	181.6	182.4	183.1	183.1	183.9
New Hampshire	146.5	146.8	146.6	147.7	148.2	149.5	149.1	149.3	150.9	150.1	150.2	149.8	149.3
New Jersey	866.1	869.3	870.3	870.3	871.6	871.5	873.5	875.6	876.1	877.8	880.1	879.5	886.7
New Mexico	167.2	167.2	167.2	167.4	168.0	167.4	167.3	166.9	168.1	168.8	169.1	168.7	169.2
New York	1,634.1	1,637.5	1,636.6	1,636.4	1,638.7	1,642.5	1,645.8	1,646.6	1,646.6	1,651.6	1,655.5	1,654.3	1,650.2
North Carolina	831.7	835.2	836.5	839.0	840.1	842.5	840.6	841.2	839.8	845.1	840.5	841.8	848.7
North Dakota	80.9	80.4	80.3	79.5	80.5	80.5	80.9	80.7	81.4	81.5	82.0	81.3	81.7
Ohio	1,302.5	1,305.5	1,306.6	1,308.5	1,310.3	1,308.0	1,311.2	1,313.3	1,314.6	1,318.5	1,321.3	1,317.1	1,317.3
Oklahoma	323.0	324.3	323.7	323.9	323.8	323.4	324.2	323.6	324.4	326.6	327.3	326.4	326.9
Oregon	374.0	374.8	375.1	376.8	377.4	378.7	378.8	378.0	380.9	381.9	384.8	383.0	385.9
Pennsylvania	1,215.7	1,215.4	1,212.0	1,214.2	1,213.5	1,214.4	1,216.2	1,220.6	1,222.6	1,223.9	1,228.0	1,216.7	1,222.9
Rhode Island	98.3	98.5	98.1	98.0	97.8	98.4	98.4	98.7	98.8	98.7	98.6	98.5	99.4
South Carolina	406.6	408.3	408.5	409.5	411.3	413.2	413.3	414.2	415.8	426.5	427.6	430.0	430.8
South Dakota	87.4	87.8	87.7	89.0	88.5	88.5	88.9	88.0	88.2	88.3	88.1	87.2	87.3
Tennessee	604.5	606.0	609.7	607.4	607.1	607.0	607.8	608.5	610.7	614.8	618.4	618.1	617.9
Texas	2,022.8	2,033.4	2,032.4	2,038.9	2,043.7	2,053.3	2,057.8	2,058.9	2,063.2	2,071.0	2,081.5	2,084.5	2,085.7
Utah	235.7	237.0	236.9	238.0	238.2	238.7	239.3	239.8	240.2	241.2	242.7	242.7	244.3
Vermont	65.1	65.2	65.1	65.2	65.1	65.4	65.0	65.0	65.0	65.1	65.3	64.8	65.0
Virginia	721.9	724.7	721.1	721.5	721.7	721.3	723.3	724.3	730.0	732.3	734.4	730.9	735.0
Washington	601.1	602.9	603.9	607.1	608.1	611.0	609.0	608.2	610.1	611.9	612.8	615.4	618.1
West Virginia	162.2	161.9	161.2	161.4	161.6	161.2	160.9	161.0	164.1	164.3	164.5	163.4	164.6
Wisconsin	601.7	601.9	601.8	602.8	602.7	605.2	608.9	607.4	607.8	608.5	609.5	608.6	611.3
Wyoming	52.6	52.8	52.7	52.6	52.5	52.3	52.1	51.9	52.5	52.3	52.3	52.5	52.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
	Finance, insurance, and real estate												
Alabama	83.4	83.7	83.9	84.2	84.2	84.7	84.7	84.7	84.9	84.9	85.1	85.1	85.4
Alaska	11.8	12.0	12.1	12.2	12.3	12.3	12.4	12.3	12.2	12.2	12.2	12.1	12.1
Arizona	122.8	124.0	125.1	125.9	126.5	127.3	127.6	128.0	129.2	130.0	130.3	130.5	131.7
Arkansas	43.7	44.0	44.1	44.1	43.9	44.1	44.2	44.2	44.3	44.4	44.5	44.3	44.5
California	742.7	745.6	750.7	754.5	756.7	759.3	760.0	761.2	763.5	764.7	765.1	765.8	769.1
Colorado	124.1	124.9	125.6	126.4	127.1	128.3	128.7	128.7	129.0	129.5	130.0	130.0	130.5
Connecticut	129.8	130.0	130.9	131.5	130.4	130.9	131.1	131.4	131.8	132.8	133.6	133.7	133.9
Delaware	45.2	45.8	46.3	46.5	47.0	47.3	47.6	48.3	48.5	48.2	48.6	48.4	48.6
District of Columbia	28.0	28.3	28.5	28.5	28.4	28.5	28.5	28.5	28.4	28.3	28.4	28.9	28.4
Florida	402.2	403.5	406.8	408.0	408.3	410.1	411.4	413.1	416.8	419.3	419.2	418.8	419.7
Georgia	183.7	184.4	185.4	186.0	186.1	187.0	188.5	189.2	190.6	190.8	191.7	191.8	192.2
Hawaii	36.5	36.4	36.3	36.3	36.2	36.1	36.1	36.0	35.9	35.8	35.7	35.6	35.3
Idaho	25.1	25.1	25.1	25.1	25.1	25.7	25.7	25.8	25.7	25.6	25.6	25.7	25.9
Illinois	393.6	394.6	395.1	396.5	397.2	399.1	400.9	401.0	402.9	404.3	405.2	406.3	406.6
Indiana	136.8	137.1	137.9	137.8	137.7	139.0	139.3	139.6	139.9	140.1	140.4	140.2	140.4
Iowa	78.4	78.6	78.7	79.0	79.2	79.5	79.6	79.8	80.5	80.7	80.9	81.3	81.0
Kansas	60.7	60.8	61.1	61.1	61.1	60.5	60.7	60.7	60.7	60.8	60.9	60.8	61.0
Kentucky	68.1	68.6	68.8	68.8	68.5	69.9	70.2	70.1	70.2	70.4	70.6	70.5	70.9
Louisiana	84.6	84.9	85.3	85.4	85.5	85.9	86.0	86.0	86.1	86.5	86.8	86.5	86.6
Maine	27.9	28.0	28.0	28.1	28.3	28.7	28.7	28.6	28.8	29.0	29.2	29.4	29.7
Maryland	130.3	130.4	130.4	130.4	130.7	130.4	130.7	130.8	130.7	130.9	131.3	131.5	131.7
Massachusetts	212.4	212.3	211.7	212.3	212.5	212.3	213.2	213.9	214.6	215.2	215.7	215.9	216.0
Michigan	206.2	206.9	206.7	206.2	206.2	205.5	204.9	205.7	206.2	206.6	207.1	207.9	208.7
Minnesota	145.2	145.3	145.9	145.5	145.7	146.2	146.4	146.7	147.9	148.5	149.1	149.2	149.9
Mississippi	41.4	41.5	41.6	41.7	41.7	41.4	40.6	40.8	41.1	41.1	41.1	41.2	41.4
Missouri	153.2	153.4	153.9	153.8	154.0	154.4	153.7	154.1	154.7	154.8	155.5	155.8	156.1
Montana	16.3	16.3	16.3	16.3	16.4	16.4	16.5	16.6	16.6	16.6	16.6	16.7	16.8
Nebraska	54.0	54.4	53.9	54.1	54.2	54.7	54.8	55.0	55.3	55.4	55.9	55.8	56.6
Nevada	39.2	39.5	39.4	39.9	40.1	40.4	40.4	40.5	40.9	41.1	41.2	41.4	41.5
New Hampshire	29.0	29.2	29.2	29.3	29.4	29.6	29.6	29.4	29.5	29.4	29.2	29.3	29.2
New Jersey	236.5	237.1	237.4	238.3	238.6	237.9	238.2	238.8	239.9	240.9	242.2	243.3	244.1
New Mexico	31.4	31.6	31.3	31.3	31.4	31.4	31.4	31.2	31.2	31.3	31.4	31.5	31.6
New York	716.4	719.4	719.7	719.8	721.1	720.3	720.7	721.3	721.3	721.5	722.1	721.3	724.0
North Carolina	163.2	164.2	165.2	166.1	166.4	167.6	168.0	168.3	168.5	168.9	169.3	170.6	172.6
North Dakota	14.5	14.6	14.6	14.6	14.7	14.9	14.9	14.9	15.0	15.0	15.2	15.3	15.3
Ohio	283.7	284.1	286.5	287.0	286.6	286.7	287.5	287.9	288.4	288.7	288.9	290.0	289.2
Oklahoma	68.8	69.0	69.0	69.1	69.2	69.3	69.3	69.5	69.9	70.2	70.2	70.3	70.5
Oregon	94.4	94.6	94.8	94.9	94.9	95.4	95.5	95.2	95.7	96.1	96.0	96.4	96.9
Pennsylvania	311.8	312.1	312.1	312.4	312.8	312.4	312.5	313.3	314.4	315.3	317.6	317.5	318.9
Rhode Island	26.3	26.3	26.4	26.5	26.5	26.7	26.6	26.6	26.6	26.7	26.6	26.9	26.9
South Carolina	73.8	74.0	74.5	74.6	74.6	75.1	75.2	75.2	75.3	75.3	75.8	76.0	76.6
South Dakota	20.5	20.6	20.7	20.8	20.9	21.1	21.1	21.2	21.4	21.6	21.7	21.7	21.5
Tennessee	118.3	119.0	119.5	120.2	120.7	120.7	120.8	121.6	122.0	121.7	121.7	123.4	123.3
Texas	457.2	458.9	460.1	462.3	463.4	465.2	466.7	467.9	469.0	469.7	471.2	473.5	475.3
Utah	51.9	52.1	52.4	52.5	52.6	52.8	52.9	53.2	53.6	54.0	53.9	53.7	54.1
Vermont	12.1	12.0	12.2	12.2	12.3	12.4	12.4	12.4	12.3	12.3	12.2	12.2	12.1
Virginia	167.0	167.2	167.3	167.6	168.0	168.1	168.1	167.6	168.6	169.1	169.5	170.6	171.0
Washington	125.8	126.0	127.4	127.6	127.0	129.2	129.6	129.8	130.3	130.4	131.0	131.5	131.8
West Virginia	28.0	28.0	28.2	28.2	28.1	28.3	28.3	28.3	28.5	28.5	28.6	28.4	28.2
Wisconsin	139.5	139.3	139.7	139.8	140.3	140.5	140.4	140.5	141.1	141.8	141.9	141.8	142.3
Wyoming	8.0	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3

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	1997												1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P	
Services														
Alabama	420.7	422.4	424.9	426.7	429.1	432.0	432.0	432.0	433.2	433.9	434.3	435.1	435.0	
Alaska	64.5	64.7	64.7	65.5	65.3	65.6	65.8	66.0	66.1	66.1	66.0	66.5	67.0	
Arizona	586.5	588.9	590.6	592.8	595.7	600.1	603.3	607.2	608.8	612.5	616.3	617.3	621.9	
Arkansas	249.6	250.8	252.0	252.1	252.4	253.4	255.6	255.8	256.3	257.3	257.7	257.2	259.1	
California	3,966.6	3,984.5	4,020.3	4,022.8	4,036.7	4,072.4	4,089.0	4,098.9	4,110.9	4,124.2	4,142.0	4,154.9	4,163.5	
Colorado	583.7	586.2	589.4	593.7	596.5	602.2	600.3	606.7	608.7	610.4	610.8	609.5	607.1	
Connecticut	490.6	491.6	493.6	493.6	495.7	495.4	500.8	500.7	503.5	506.4	508.7	508.6	507.0	
Delaware	104.3	104.9	105.8	105.9	107.0	108.5	108.7	108.5	108.8	109.5	109.9	110.2	110.7	
District of Columbia	265.8	266.5	265.7	263.7	265.0	267.7	265.6	267.6	267.0	266.0	265.6	266.3	266.0	
Florida	2,202.0	2,212.6	2,234.7	2,247.4	2,260.5	2,279.2	2,291.8	2,302.2	2,311.0	2,321.5	2,330.5	2,337.5	2,347.3	
Georgia	926.0	929.8	928.3	930.9	932.8	938.8	945.1	955.2	963.1	967.4	973.2	972.3	981.8	
Hawaii	168.6	168.9	169.0	168.6	169.2	169.7	169.7	169.7	170.1	170.3	169.5	168.4	169.2	
Idaho	118.6	119.4	120.2	121.4	121.9	124.9	123.7	121.7	124.0	123.9	123.9	121.8	120.9	
Illinois	1,665.2	1,671.8	1,674.2	1,680.9	1,684.0	1,695.2	1,699.9	1,695.1	1,701.8	1,709.9	1,714.0	1,713.4	1,715.7	
Indiana	672.7	675.8	678.9	680.0	680.1	683.5	689.0	689.0	691.2	696.7	700.7	691.3	692.0	
Iowa	362.0	362.9	363.9	365.0	366.1	366.3	365.4	364.9	368.3	369.1	369.9	371.6	372.9	
Kansas	308.5	310.1	312.6	315.2	316.8	318.4	319.8	321.4	323.2	324.1	325.0	324.9	325.9	
Kentucky	417.3	418.7	421.0	422.2	423.7	426.2	429.0	429.7	430.7	431.7	433.3	432.0	433.0	
Louisiana	490.7	492.0	494.8	494.7	495.5	501.3	500.2	502.5	503.8	504.6	506.0	507.4	507.1	
Maine	155.3	155.8	155.3	156.3	157.1	158.0	158.5	159.2	159.7	160.5	160.7	160.6	161.7	
Maryland	741.5	744.9	748.4	752.1	753.2	754.1	755.6	756.8	760.4	762.7	764.0	763.1	764.1	
Massachusetts	1,090.9	1,095.3	1,099.1	1,104.4	1,107.2	1,106.6	1,109.6	1,113.4	1,117.6	1,121.6	1,126.1	1,119.3	1,126.4	
Michigan	1,201.3	1,208.3	1,213.3	1,215.7	1,216.7	1,220.1	1,226.9	1,228.2	1,234.5	1,235.2	1,243.2	1,244.1	1,245.7	
Minnesota	689.3	691.1	693.9	698.3	700.4	703.2	705.4	706.1	706.8	708.9	710.5	708.1	713.4	
Mississippi	253.5	254.8	255.8	256.9	255.3	258.7	259.9	261.0	261.1	261.5	261.3	262.7	263.5	
Missouri	728.0	731.4	731.2	734.4	736.9	737.5	738.2	738.6	740.3	744.3	746.5	746.2	746.9	
Montana	102.8	103.4	104.2	104.8	105.3	105.5	105.6	105.5	105.9	106.0	106.6	106.1	107.4	
Nebraska	225.6	227.3	226.7	227.7	228.2	230.0	230.6	232.0	232.8	233.4	233.3	234.3	235.9	
Nevada	378.7	378.3	377.8	379.6	380.1	381.8	383.2	385.1	386.1	386.7	387.2	386.5	386.9	
New Hampshire	162.6	162.9	164.3	165.4	164.9	166.4	166.1	164.9	166.1	166.0	165.7	165.2	165.4	
New Jersey	1,152.1	1,156.0	1,160.3	1,164.7	1,169.7	1,176.4	1,180.2	1,182.7	1,187.1	1,192.9	1,195.1	1,194.6	1,197.0	
New Mexico	192.0	192.7	193.1	194.3	194.6	194.9	195.2	196.0	197.2	197.4	197.2	196.8	197.8	
New York	2,661.6	2,671.6	2,679.7	2,685.5	2,689.7	2,698.1	2,705.8	2,713.2	2,722.0	2,729.4	2,736.5	2,734.3	2,750.1	
North Carolina	845.2	849.5	855.5	861.3	864.5	878.2	882.1	886.5	891.3	896.2	899.5	899.8	901.4	
North Dakota	86.6	86.6	86.6	86.5	87.0	87.5	87.1	87.1	87.2	87.5	87.8	88.4	89.1	
Ohio	1,446.8	1,453.9	1,461.6	1,468.3	1,469.6	1,473.2	1,477.1	1,478.5	1,481.9	1,485.0	1,484.7	1,497.6	1,495.5	
Oklahoma	371.0	372.2	375.3	377.5	377.4	378.7	380.7	382.0	381.7	382.6	383.0	382.9	384.6	
Oregon	395.1	396.2	398.8	401.0	399.7	403.7	403.8	404.2	404.5	404.2	408.7	412.0	410.2	
Pennsylvania	1,689.1	1,691.9	1,695.7	1,700.7	1,706.6	1,710.8	1,717.2	1,719.8	1,721.6	1,728.8	1,732.9	1,739.0	1,737.1	
Rhode Island	149.1	149.8	150.8	151.2	150.4	151.2	151.7	152.3	152.5	152.3	152.1	151.9	151.7	
South Carolina	389.8	391.4	390.0	391.3	392.3	396.3	399.1	398.5	398.6	400.2	401.4	409.3	410.9	
South Dakota	91.2	91.3	91.6	92.3	92.1	92.7	92.7	92.8	92.7	92.2	92.5	92.9	93.8	
Tennessee	671.1	674.5	679.3	683.3	685.5	687.7	689.3	688.2	690.6	692.6	691.1	699.0	696.6	
Texas	2,332.8	2,347.9	2,361.2	2,375.9	2,390.1	2,401.8	2,419.1	2,425.1	2,436.5	2,447.2	2,457.1	2,448.9	2,475.7	
Utah	264.8	265.8	266.1	267.4	268.3	270.0	271.7	272.5	273.6	275.6	276.4	277.7	277.7	
Vermont	82.6	82.6	83.1	83.5	83.5	83.8	84.1	84.0	84.0	84.3	84.7	83.9	84.3	
Virginia	953.4	958.5	961.6	965.9	973.8	976.8	981.3	984.9	989.3	991.9	999.2	1,004.5	1,009.7	
Washington	666.3	668.8	671.5	675.6	675.9	677.5	680.2	680.8	683.3	686.6	689.4	689.5	695.4	
West Virginia	195.4	196.1	197.0	197.3	198.4	199.3	199.8	200.6	202.8	202.9	202.5	202.5	202.9	
Wisconsin	665.7	665.4	670.7	673.0	675.6	683.0	684.8	687.5	688.8	690.7	692.3	693.5	691.6	
Wyoming	48.7	48.8	48.8	49.1	48.5	49.0	48.8	48.6	48.9	48.9	49.0	48.8	48.7	

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	1997												1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	
	Government													
Alabama	344.9	345.5	345.5	345.8	345.3	345.3	346.0	346.2	347.0	347.1	347.3	347.2	345.8	
Alaska	73.6	73.4	73.3	73.1	72.9	73.5	73.0	72.8	72.9	73.3	73.5	73.1	73.4	
Arizona	320.6	323.5	325.1	326.8	327.3	318.2	325.7	326.6	327.0	327.3	327.5	325.4	329.9	
Arkansas	182.4	182.7	183.1	182.8	182.9	184.0	185.6	183.7	182.8	183.5	183.9	183.7	184.2	
California	2,131.8	2,137.9	2,139.9	2,142.1	2,142.4	2,127.0	2,145.2	2,151.8	2,155.2	2,163.6	2,160.5	2,157.5	2,160.2	
Colorado	312.6	312.7	313.0	313.8	314.5	315.6	315.3	316.4	316.2	316.2	317.0	318.2	317.5	
Connecticut	228.1	225.6	224.8	224.5	224.4	223.5	224.2	225.2	225.3	225.6	226.3	225.8	227.0	
Delaware	53.1	53.1	52.9	53.1	53.2	53.4	53.7	53.9	53.4	53.6	53.8	53.9	53.7	
District of Columbia	235.4	234.4	234.1	233.7	232.7	235.1	232.9	231.4	229.9	229.3	228.6	230.0	228.2	
Florida	937.5	936.7	939.2	941.7	942.8	938.8	942.2	944.4	944.8	949.3	950.5	956.9	952.9	
Georgia	573.3	573.7	574.7	575.9	576.2	578.4	580.0	581.1	581.3	581.1	582.9	584.0	584.2	
Hawaii	110.6	110.2	110.3	110.7	111.4	110.6	112.7	114.4	112.7	112.1	111.6	111.3	110.8	
Idaho	98.8	98.7	98.7	99.0	98.9	99.7	100.1	99.7	99.7	99.6	99.4	101.1	100.2	
Illinois	804.8	803.8	800.5	806.5	804.6	808.1	808.8	808.3	807.5	806.2	804.1	803.8	802.9	
Indiana	390.9	390.8	391.5	393.4	395.0	393.4	392.1	393.0	389.4	386.1	390.4	395.2	392.4	
Iowa	233.9	233.5	233.9	234.1	234.3	234.5	234.5	235.0	236.8	233.4	234.6	236.8	237.3	
Kansas	235.9	236.2	236.0	236.7	235.7	235.8	235.2	234.7	237.0	235.2	237.8	239.4	238.5	
Kentucky	290.5	290.4	291.3	290.8	291.3	291.5	291.1	290.3	290.2	291.0	291.1	294.1	291.2	
Louisiana	362.1	362.3	362.1	362.7	364.1	361.9	364.5	365.3	365.9	366.5	365.2	365.4	367.2	
Maine	92.6	92.9	93.1	92.6	92.9	92.9	92.9	92.9	93.1	92.8	93.0	91.6	93.0	
Maryland	416.0	417.5	416.8	417.0	418.1	420.1	417.7	418.4	416.9	416.0	414.8	420.4	419.9	
Massachusetts	401.0	401.6	403.3	404.4	404.9	407.2	407.5	407.3	406.9	407.3	409.0	408.5	409.8	
Michigan	648.6	648.4	650.6	657.3	649.9	646.1	644.6	652.6	647.3	643.9	650.0	654.7	657.2	
Minnesota	378.0	378.2	377.7	377.8	379.1	380.3	382.9	379.9	379.8	380.1	379.9	379.7	381.1	
Mississippi	217.8	217.5	218.0	217.7	217.1	218.8	222.3	220.3	220.3	220.3	220.3	220.2	220.6	
Missouri	408.4	409.4	411.7	414.3	415.9	414.6	415.7	415.6	415.4	414.1	416.4	416.4	418.5	
Montana	77.7	77.5	76.9	76.7	74.4	76.5	76.7	77.0	77.3	77.3	77.9	77.0	76.8	
Nebraska	151.4	151.7	151.8	151.6	152.0	153.6	153.3	152.3	153.3	153.9	154.0	152.8	153.4	
Nevada	104.5	104.6	105.3	105.8	109.2	106.9	107.2	107.4	108.0	108.0	109.2	108.4	109.5	
New Hampshire	78.5	78.4	78.9	78.9	78.5	79.5	78.8	77.8	78.2	78.4	75.6	77.8	78.3	
New Jersey	570.3	568.6	568.8	569.1	569.4	568.8	568.3	575.9	570.7	570.0	570.5	570.0	570.6	
New Mexico	175.1	175.1	176.4	177.3	178.1	178.8	178.4	177.8	178.0	178.2	178.6	178.7	178.7	
New York	1,374.8	1,375.7	1,373.7	1,375.5	1,371.5	1,373.2	1,375.1	1,374.7	1,379.8	1,374.7	1,373.3	1,368.3	1,369.9	
North Carolina	570.5	570.9	573.9	573.8	574.4	578.9	599.2	586.9	588.4	589.0	589.0	587.5	593.0	
North Dakota	71.0	71.0	70.8	71.1	68.5	69.4	69.7	71.1	70.3	70.4	70.5	70.9	71.3	
Ohio	756.0	756.1	756.6	758.1	760.5	764.3	764.2	763.0	760.5	761.4	760.9	763.4	762.5	
Oklahoma	273.8	274.0	274.4	275.1	269.3	270.7	272.6	278.7	276.8	277.6	277.3	277.6	278.9	
Oregon	249.8	249.8	250.1	249.2	250.5	248.7	251.2	251.7	252.1	248.9	253.9	254.7	255.3	
Pennsylvania	716.2	715.6	715.6	716.9	704.1	711.6	713.5	715.2	713.7	712.7	713.8	717.8	716.0	
Rhode Island	62.4	62.7	63.4	63.3	63.8	63.5	64.1	64.4	64.1	63.8	64.8	65.1	65.3	
South Carolina	298.6	298.9	298.8	299.0	299.2	299.7	300.0	299.8	299.9	290.9	300.0	303.4	303.6	
South Dakota	70.2	69.8	70.0	70.0	67.2	69.9	70.1	70.5	70.4	70.1	70.1	69.9	69.7	
Tennessee	380.2	380.3	379.7	380.5	388.0	385.4	384.8	384.7	384.0	383.9	383.6	385.6	384.5	
Texas	1,474.4	1,478.0	1,477.8	1,479.6	1,475.4	1,477.0	1,486.5	1,492.6	1,493.9	1,495.8	1,496.7	1,490.8	1,494.5	
Utah	170.5	170.9	170.8	171.4	171.7	171.8	172.0	172.7	172.7	174.3	174.8	175.0	175.7	
Vermont	45.7	45.3	45.6	45.6	45.5	45.6	45.4	45.4	45.5	45.4	45.7	45.4	45.3	
Virginia	597.2	596.5	596.7	595.6	596.0	591.0	594.0	594.4	597.8	598.6	598.5	595.7	596.5	
Washington	453.2	453.5	456.5	455.9	459.2	462.0	459.3	459.1	459.0	456.3	460.3	456.3	456.6	
West Virginia	138.9	138.9	139.1	139.0	138.9	138.9	139.2	139.6	140.5	140.9	140.8	139.3	139.5	
Wisconsin	385.8	384.8	384.5	386.7	386.5	383.2	385.2	385.6	387.9	387.7	388.7	390.0	389.4	
Wyoming	57.5	57.4	57.4	57.7	57.2	59.9	60.3	57.3	57.0	56.9	57.1	56.9	57.0	

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

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

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

B-8. Average weekly hours of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

Industry	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	Mar. ^P
Total private	34.8	34.5	34.5	34.6	34.4	34.6	34.5	34.5	34.8	34.6	34.8	34.9	34.7
Goods-producing	41.4	41.4	41.4	41.1	41.2	41.1	41.2	41.3	41.2	41.4	41.6	41.4	40.9
Mining	45.9	45.3	46.0	45.4	45.4	45.5	45.1	45.2	45.6	45.0	45.5	44.1	43.4
Construction	38.9	38.9	39.4	38.7	39.0	38.6	38.9	38.8	38.1	38.8	39.8	39.3	38.4
Manufacturing	42.1	42.1	42.0	41.8	41.8	41.8	41.9	42.0	42.1	42.2	42.1	42.0	41.7
<i>Overtime hours</i>	4.9	4.9	4.8	4.6	4.7	4.7	4.7	4.8	4.9	4.9	4.9	4.8	4.7
Durable goods	42.9	43.0	42.8	42.6	42.6	42.7	42.6	42.8	42.9	43.0	42.8	42.7	42.4
<i>Overtime hours</i>	5.2	5.3	5.2	5.0	5.0	5.0	5.0	5.1	5.2	5.2	5.2	5.1	5.0
Lumber and wood products	41.0	41.2	41.0	41.0	41.1	40.8	40.9	41.1	41.2	41.0	41.3	41.2	41.1
Furniture and fixtures	40.3	40.1	40.4	39.9	40.0	40.0	40.2	40.0	40.5	40.7	41.2	41.3	40.5
Stone, clay, and glass products	43.1	43.0	43.4	42.9	43.1	43.0	43.1	43.1	42.9	43.9	43.9	43.8	43.3
Primary metal industries	44.8	45.1	44.8	44.7	44.4	45.0	44.9	45.1	45.3	45.3	45.4	44.7	44.4
Blast furnaces and basic steel products	44.8	45.2	44.7	44.5	44.3	45.2	45.1	45.3	45.3	45.5	46.2	45.3	45.3
Fabricated metal products	42.6	42.9	42.6	42.4	42.4	42.3	42.4	42.6	42.6	42.9	42.7	42.6	42.4
Industrial machinery and equipment	43.5	43.9	43.6	43.3	43.4	43.4	43.4	43.4	43.8	43.6	43.5	43.3	43.2
Electronic and other electrical equipment	42.1	42.3	42.0	42.0	42.0	41.7	41.7	41.8	42.0	42.0	41.9	41.8	41.2
Transportation equipment	45.0	44.8	44.5	44.2	43.7	44.3	43.9	44.4	44.0	44.7	43.8	43.7	43.5
Motor vehicles and equipment	45.7	45.3	45.2	44.8	44.0	44.7	44.1	45.0	44.3	45.0	43.8	43.7	43.7
Instruments and related products	42.0	41.9	41.9	41.8	41.7	42.3	42.0	41.9	42.2	41.8	41.7	42.0	41.6
Miscellaneous manufacturing	40.2	40.5	40.3	40.1	40.4	40.2	40.3	40.2	40.5	40.7	40.2	40.7	40.4
Nondurable goods	40.9	40.9	40.8	40.6	40.6	40.7	40.9	40.8	41.1	41.1	41.2	40.9	40.8
<i>Overtime hours</i>	4.4	4.4	4.3	4.1	4.3	4.2	4.3	4.4	4.5	4.5	4.4	4.3	4.4
Food and kindred products	41.3	41.1	41.4	40.9	41.1	41.0	41.2	41.2	41.6	41.7	41.9	41.4	41.3
Tobacco products	40.2	39.0	38.4	37.6	36.1	37.5	38.1	38.7	39.3	39.1	38.4	38.7	37.4
Textile mill products	41.2	41.7	41.4	41.2	41.3	41.2	41.4	41.3	41.5	41.7	41.8	41.7	41.2
Apparel and other textile products	37.5	37.5	37.1	37.4	36.9	37.1	37.3	37.2	37.1	37.5	37.6	37.4	37.1
Paper and allied products	43.8	43.9	43.8	43.4	43.5	43.4	43.7	43.7	44.1	43.8	43.6	43.3	43.4
Printing and publishing	38.6	38.5	38.3	38.3	38.4	38.3	38.7	38.7	38.8	38.6	38.5	38.5	38.4
Chemicals and allied products	43.3	43.1	43.3	43.1	43.0	43.3	43.4	43.2	43.4	43.1	43.5	43.5	43.4
Petroleum and coal products	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products	41.8	42.0	41.6	41.5	41.7	41.7	41.6	41.8	42.2	42.1	42.0	41.8	41.5
Leather and leather products	38.7	38.5	38.2	38.1	38.4	38.0	38.4	38.6	38.0	38.3	38.3	38.8	37.6
Service-producing	33.0	32.7	32.7	32.9	32.7	32.9	32.8	32.8	33.1	32.8	32.9	33.2	33.0
Transportation and public utilities	39.8	39.3	39.5	39.6	39.0	40.1	39.9	39.8	40.2	39.7	39.8	40.0	39.5
Wholesale trade	38.6	38.4	38.4	38.5	38.3	38.4	38.3	38.3	38.7	38.2	38.4	38.6	38.6
Retail trade	29.1	28.9	28.9	28.9	28.8	29.1	28.8	28.9	28.9	28.9	29.0	29.2	29.0
Finance, insurance, and real estate	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Services	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)

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

² 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.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1993 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

(1982=100)

Industry	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P	Mar.P
Total private	140.2	139.6	140.0	140.6	140.2	140.8	140.9	141.2	142.9	142.5	143.6	144.5	143.5
Goods-producing	113.3	113.3	113.7	112.7	112.9	113.0	113.3	113.6	113.9	115.0	116.4	115.9	114.0
Mining	56.6	55.8	57.3	56.3	56.3	56.3	56.1	56.1	56.2	56.0	56.7	54.8	53.6
Construction	154.0	153.2	156.2	152.8	154.1	152.9	154.2	153.5	152.2	156.7	164.3	163.5	156.1
Manufacturing	108.3	108.5	108.3	107.8	107.8	108.1	108.3	108.7	109.4	109.9	110.0	109.6	108.9
Durable goods	111.3	111.7	111.4	111.0	111.1	112.0	111.8	112.5	113.2	113.9	113.9	113.8	112.9
Lumber and wood products	142.2	143.3	142.9	142.2	142.3	141.5	142.1	143.0	143.6	144.2	145.9	145.3	144.7
Furniture and fixtures	127.3	126.7	128.0	126.7	127.3	126.7	127.6	127.3	129.6	130.5	133.1	134.1	131.8
Stone, clay, and glass products	110.0	109.2	110.2	108.7	110.0	109.7	110.0	110.5	110.0	112.8	114.4	114.1	111.8
Primary metal industries	93.9	94.5	93.9	94.0	93.2	95.2	95.0	95.9	96.5	96.5	97.2	95.6	95.1
Blast furnaces and basic steel products	73.2	73.8	72.6	72.3	72.0	73.4	74.1	74.0	74.0	74.3	75.9	74.4	74.4
Fabricated metal products	116.7	118.0	117.1	116.8	116.5	117.2	117.4	118.4	118.6	119.8	119.8	119.9	118.9
Industrial machinery and equipment	107.7	109.2	108.5	108.1	108.5	108.9	108.9	109.7	111.1	110.8	110.9	110.8	110.4
Electronic and other electrical equipment	108.8	109.1	108.2	108.5	109.1	108.9	109.0	109.4	110.3	111.1	111.0	110.3	108.8
Transportation equipment	127.6	126.5	126.8	126.2	125.7	129.7	127.6	129.6	129.7	131.4	128.6	128.9	128.6
Motor vehicles and equipment	167.9	164.4	165.4	165.6	163.1	169.1	164.7	168.3	168.7	169.6	164.5	164.1	163.9
Instruments and related products	75.4	75.1	75.1	75.2	75.1	75.8	75.6	75.4	76.0	75.6	76.1	76.7	76.1
Miscellaneous manufacturing	102.5	103.3	103.2	102.3	103.4	102.5	102.0	101.8	101.4	103.4	102.2	103.4	103.0
Nondurable goods	104.3	104.2	104.0	103.4	103.1	102.8	103.5	103.6	104.3	104.4	104.7	104.0	103.4
Food and kindred products	117.4	117.0	117.3	115.8	115.6	114.8	116.2	116.5	118.4	119.0	119.9	118.7	118.6
Tobacco products	63.7	59.9	58.9	57.8	57.2	57.6	58.5	61.3	64.2	60.0	60.9	61.3	61.1
Textile mill products	88.8	89.6	88.8	88.2	88.5	87.6	88.2	88.0	88.1	88.7	88.4	87.8	87.0
Apparel and other textile products	74.3	73.9	73.0	73.2	72.0	71.7	71.6	71.2	70.6	71.2	70.8	69.6	68.7
Paper and allied products	110.2	110.4	110.4	109.0	109.0	108.5	109.5	109.5	110.7	110.2	110.1	109.4	109.6
Printing and publishing	124.3	124.7	125.1	125.2	125.4	124.5	125.6	125.8	126.4	125.9	125.3	125.1	124.1
Chemicals and allied products	100.3	99.9	100.5	99.7	99.3	100.1	100.9	100.8	101.6	101.3	102.4	102.9	102.7
Petroleum and coal products	76.1	73.6	75.0	74.2	73.5	74.9	74.2	73.1	73.9	72.4	74.6	70.6	71.8
Rubber and misc. plastics products	145.0	145.9	144.7	144.2	144.3	144.9	144.7	145.6	146.8	147.2	147.8	147.1	146.2
Leather and leather products	42.8	42.0	41.7	41.0	40.7	39.7	39.5	40.3	39.1	38.8	38.8	39.3	37.5
Service-producing	152.3	151.3	151.8	153.1	152.5	153.2	153.3	153.6	155.9	154.9	155.8	157.4	156.8
Transportation and public utilities	131.4	130.1	131.0	131.3	129.3	128.2	132.2	132.1	133.2	131.1	132.0	132.6	131.5
Wholesale trade	126.3	125.7	125.9	126.2	126.0	126.5	126.2	126.7	128.3	126.9	128.1	129.0	129.0
Retail trade	138.5	137.9	138.0	138.2	138.2	139.7	138.5	139.2	140.3	140.5	140.8	142.0	140.7
Finance, insurance, and real estate	129.0	126.7	127.3	130.5	127.4	129.4	128.6	128.1	132.9	129.3	130.3	134.8	135.2
Services	182.6	181.7	182.3	184.5	184.4	184.9	185.0	185.3	188.3	187.5	188.8	190.4	190.1

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

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1993 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) ¹			Percent change		
	Jan. 1998 ^f	Feb. 1998 ^f	March 1998 ^P	March 1997 to March 1998 ^P	Jan. 1998 to Feb. 1998 ^f	Feb. 1998 to March 1998 ^P
Total	229,312	229,833	228,678	2.5	0.2	-0.5
Private sector	191,267	192,537	191,400	2.5	.7	-0.6
Mining	1,360	1,313	1,295	-5.7	-3.5	-1.3
Construction	12,093	12,010	11,559	1.9	-.7	-3.8
Manufacturing	40,816	40,711	40,550	.7	-.3	-.4
Durable goods	24,510	24,488	24,371	1.6	-.1	-.5
Nondurable goods	16,306	16,223	16,179	-.5	-.5	-.3
Transportation and public utilities	13,529	13,634	13,555	2.3	.8	-.6
Wholesale trade	13,538	13,635	13,645	2.8	.7	.1
Retail trade	33,873	34,128	33,821	1.8	.8	-.9
Finance, insurance, and real estate	13,423	13,807	13,854	3.9	2.9	.3
Services	62,635	63,299	63,120	4.0	1.1	-.3
Government	38,045	37,296	37,278	2.3	-2.0	.0

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

^P = preliminary.

^f = 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>

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

B-11. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, seasonally adjusted

Industry	1997										1998		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	Mar. ^P
Average hourly earnings													
Total private (in current dollars)	\$12.14	\$12.14	\$12.19	\$12.23	\$12.24	\$12.31	\$12.35	\$12.40	\$12.48	\$12.48	\$12.52	\$12.59	\$12.63
Goods-producing	13.79	13.80	13.85	13.86	13.86	13.94	13.97	14.07	14.11	14.17	14.15	14.21	14.25
Mining	15.94	15.96	16.05	16.12	16.10	16.07	16.20	16.27	16.43	16.41	16.42	16.77	16.93
Construction	15.80	15.86	15.91	15.95	15.96	16.03	16.08	16.12	16.22	16.36	16.22	16.30	16.42
Manufacturing	13.07	13.07	13.11	13.12	13.11	13.20	13.22	13.35	13.37	13.39	13.38	13.43	13.47
Excluding overtime²	12.37	12.38	12.38	12.42	12.41	12.50	12.51	12.60	12.63	12.64	12.64	12.70	12.75
Service-producing	11.59	11.58	11.63	11.69	11.70	11.77	11.81	11.85	11.94	11.92	11.97	12.05	12.10
Transportation and public utilities	14.73	14.76	14.80	14.85	14.95	15.01	14.95	15.01	15.05	15.09	15.26	15.19	15.20
Wholesale trade	13.30	13.27	13.33	13.42	13.38	13.54	13.54	13.57	13.73	13.69	13.67	13.81	13.87
Retail trade	8.25	8.26	8.28	8.30	8.32	8.36	8.42	8.46	8.50	8.51	8.57	8.59	8.62
Finance, insurance, and real estate	13.12	13.00	13.18	13.29	13.30	13.49	13.47	13.54	13.64	13.59	13.63	13.83	13.88
Services	12.16	12.16	12.20	12.26	12.26	12.33	12.36	12.41	12.50	12.48	12.52	12.62	12.68
Total private (in constant (1982) dollars) ³	7.50	7.49	7.52	7.54	7.53	7.56	7.56	7.58	7.62	7.62	7.64	7.69	(4)
Goods-producing	8.52	8.52	8.54	8.54	8.53	8.56	8.55	8.60	8.62	8.65	8.64	8.68	(4)
Service-producing	7.16	7.15	7.17	7.20	7.20	7.23	7.23	7.24	7.29	7.28	7.31	7.36	(4)
Average weekly earnings													
Total private (in current dollars)	422.47	418.83	420.56	423.16	421.06	425.93	426.08	427.80	434.30	431.81	435.70	439.39	438.26
Goods-producing	570.91	571.32	573.39	569.65	571.03	572.93	575.56	581.09	581.33	586.64	588.64	588.29	582.83
Mining	731.65	722.99	738.30	731.85	730.94	731.19	730.62	735.40	749.21	738.45	747.11	739.56	734.76
Construction	614.62	616.95	626.85	617.27	622.44	618.76	625.51	625.46	617.98	634.77	645.56	640.59	630.53
Manufacturing	550.25	550.25	550.62	548.42	548.00	551.76	553.92	560.70	562.88	565.06	563.30	564.06	561.70
Service-producing	382.47	378.67	380.30	384.60	382.59	387.23	387.37	388.68	395.21	390.98	393.81	400.06	399.30
Transportation and public utilities	586.25	580.07	584.60	588.06	583.05	601.90	596.51	597.40	605.01	599.07	607.35	607.60	600.40
Wholesale trade	513.38	509.57	511.87	516.67	512.45	519.94	518.58	519.73	531.35	522.96	524.93	533.07	535.38
Retail trade	240.08	238.71	239.29	239.87	239.62	243.28	242.50	244.49	245.65	245.94	248.53	250.83	249.98
Finance, insurance, and real estate	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Services	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Total private (in constant (1982) dollars) ³	260.95	258.54	259.44	260.73	259.11	261.47	260.92	261.49	265.30	263.62	266.00	268.25	(4)
Goods-producing	352.63	352.67	353.73	350.99	351.40	351.71	352.46	355.19	355.12	358.14	359.37	359.15	(4)
Service-producing	236.24	233.75	234.61	236.97	235.44	237.71	237.21	237.58	241.42	238.69	240.42	244.24	(4)

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

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

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

⁴ Not available.

⁵ These series are not computed because the average weekly hours' components are not available on a seasonally adjusted basis.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1993 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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Total		119,663	120,472	122,160	122,940	123,576	-	-	-	-	-
Total private		99,827	100,522	102,461	102,838	103,369	81,612	82,251	83,621	83,966	84,419
Mining		561	562	561	559	560	420	423	425	423	424
Metal mining	10	53.5	53.5	51.2	50.8	50.9	41.5	41.4	39.2	38.8	-
Iron ores	101	8.4	8.4	8.3	8.2	-	6.9	6.9	6.9	6.8	-
Copper ores	102	16.1	16.1	16.3	16.1	-	12.4	12.3	12.3	12.1	-
Coal mining	12	92.8	92.4	89.5	88.9	88.4	76.3	75.9	73.1	72.6	-
Bituminous coal and lignite mining	122	86.5	86.2	83.7	83.4	-	71.0	70.7	68.2	67.9	-
Oil and gas extraction	13	314.5	312.7	321.6	320.0	317.8	227.2	227.8	239.0	237.6	-
Crude petroleum and natural gas	131	136.2	133.1	128.2	127.7	-	77.2	76.2	74.9	74.6	-
Oil and gas field services	138	174.2	175.5	189.3	188.2	-	146.8	148.4	160.7	159.5	-
Nonmetallic minerals, except fuels	14	99.8	103.1	98.7	99.5	102.7	74.5	77.7	73.4	74.3	-
Crushed and broken stone	142	37.4	39.0	37.3	37.6	-	28.7	30.2	28.5	28.9	-
Sand and gravel	144	32.7	33.8	32.2	32.7	-	-	-	-	-	-
Chemical and fertilizer minerals	147	12.4	12.2	11.9	11.6	-	-	-	-	-	-
Construction		5,093	5,204	5,345	5,341	5,391	3,870	3,968	4,059	4,054	4,091
General building contractors	15	1,214.4	1,227.1	1,291.6	1,284.4	1,289.6	843.1	852.4	895.2	888.6	-
Residential building construction	152	617.7	626.3	661.1	657.8	-	411.8	417.9	441.7	439.3	-
Operative builders	153	26.1	26.2	26.5	26.7	-	10.5	10.7	10.3	10.4	-
Nonresidential building construction	154	570.6	574.6	604.0	599.9	-	420.8	423.8	443.2	438.9	-
Heavy construction, except building	16	656.5	685.3	647.7	654.0	683.9	534.4	561.9	522.9	528.2	-
Highway and street construction	161	170.3	186.6	165.8	169.9	-	128.6	144.3	122.7	126.4	-
Heavy construction, except highway	162	486.2	498.7	481.9	484.1	-	405.8	417.6	400.2	401.8	-
Special trade contractors	17	3,221.8	3,291.7	3,405.9	3,402.2	3,417.1	2,492.1	2,553.4	2,641.0	2,636.9	-
Plumbing, heating, and air conditioning	171	758.7	762.5	788.0	783.6	-	555.9	558.9	577.7	573.5	-
Painting and paper hanging	172	169.8	174.8	183.1	179.0	-	136.5	141.5	148.2	144.4	-
Electrical work	173	638.6	645.4	693.4	691.3	-	501.3	506.5	547.6	544.6	-
Masonry, stonework, and plastering	174	427.0	438.2	458.0	461.2	-	362.6	372.9	389.9	392.0	-
Carpentry and floor work	175	235.3	241.6	253.5	254.4	-	177.3	182.2	191.7	192.6	-
Roofing, siding, and sheet metal work	176	206.0	213.4	206.9	211.7	-	161.0	168.1	158.0	163.4	-
Manufacturing		18,360	18,397	18,590	18,611	18,636	12,670	12,705	12,831	12,858	12,874
Durable goods		10,787	10,821	11,035	11,054	11,075	7,390	7,422	7,572	7,597	7,614
Lumber and wood products	24	776.3	780.5	791.8	792.2	793.4	637.2	641.1	651.4	651.2	652.2
Logging	241	77.2	75.0	76.1	75.2	-	61.2	59.4	60.4	59.4	-
Sawmills and planing mills	242	183.5	183.9	186.7	186.7	-	159.7	160.3	162.2	162.3	-
Sawmills and planing mills, general	2421	145.8	146.6	147.9	147.8	-	126.4	127.2	128.0	127.9	-
Hardwood dimension and flooring mills	2426	35.7	35.4	36.8	36.9	-	31.6	31.5	32.5	32.7	-
Millwork, plywood, and structural members	243	287.3	290.2	296.4	297.3	-	230.0	232.4	238.2	238.8	-
Millwork	2431	114.3	115.8	117.3	117.5	-	87.5	88.9	90.8	90.8	-
Wood kitchen cabinets	2434	79.4	79.8	82.9	83.6	-	63.7	63.9	67.0	67.6	-
Hardwood veneer and plywood	2435	27.8	27.9	28.3	28.2	-	23.6	23.7	24.0	24.1	-
Softwood veneer and plywood	2436	30.0	30.0	29.6	29.6	-	28.1	28.0	27.1	27.1	-
Wood containers	244	52.5	53.2	53.5	53.9	-	44.8	45.4	45.7	46.2	-
Wood buildings and mobile homes	245	86.9	88.3	89.7	89.6	-	69.0	70.4	71.8	71.3	-
Mobile homes	2451	66.4	67.5	67.7	67.8	-	55.2	56.2	56.8	56.5	-
Miscellaneous wood products	249	88.9	89.9	89.4	89.5	-	72.5	73.2	73.1	73.2	-
Furniture and fixtures	25	506.6	507.1	516.9	518.9	520.8	401.6	402.1	411.5	413.5	414.3
Household furniture	251	277.1	276.9	278.4	280.6	-	234.0	233.5	235.4	237.7	-
Wood household furniture	2511	124.3	124.0	122.1	122.9	-	107.6	107.5	105.9	106.5	-
Upholstered household furniture	2512	85.7	86.2	87.9	88.7	-	72.4	72.5	74.3	75.2	-
Metal household furniture	2514	22.1	21.4	21.8	22.2	-	18.5	17.8	18.4	18.9	-
Mattresses and bedsprings	2515	32.9	33.1	35.7	35.7	-	25.3	25.4	27.7	27.8	-

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Durable goods—Continued											
Furniture and fixtures—Continued											
Office furniture	252	61.2	61.2	63.9	63.7	—	45.0	45.2	47.4	47.2	—
Public building and related furniture	253	44.1	44.3	46.2	45.9	—	34.7	34.9	36.2	35.9	—
Partitions and fixtures	254	85.7	86.2	88.5	88.6	—	62.8	63.3	66.1	66.1	—
Miscellaneous furniture and fixtures	259	38.5	38.5	39.9	40.1	—	25.1	25.2	26.4	26.6	—
Stone, clay, and glass products	32	523.2	529.5	529.3	529.5	534.0	405.0	411.1	411.6	412.5	416.0
Flat glass	321	15.6	15.5	15.8	15.2	—	12.5	12.5	12.5	12.2	—
Glass and glassware, pressed or blown	322	71.8	70.5	71.4	71.8	—	60.0	59.0	59.1	59.5	—
Glass containers	3221	26.5	25.9	24.7	25.0	—	23.9	23.2	22.0	22.4	—
Pressed and blown glass, nec	3229	45.3	44.6	46.7	46.8	—	36.1	35.8	37.1	37.1	—
Products of purchased glass	323	57.5	57.6	58.3	57.6	—	44.5	44.7	45.5	44.8	—
Cement, hydraulic	324	17.1	17.1	17.4	17.4	—	13.0	13.1	13.2	13.2	—
Structural clay products	325	32.6	32.9	31.5	31.8	—	25.4	25.8	24.4	24.7	—
Pottery and related products	326	39.7	39.6	38.7	38.1	—	31.4	31.5	30.3	29.9	—
Concrete, gypsum, and plaster products	327	198.7	205.6	201.9	203.3	—	149.5	155.7	153.4	155.0	—
Concrete block and brick	3271	16.8	17.3	17.2	17.1	—	10.5	10.8	10.8	10.8	—
Concrete products, nec	3272	69.6	71.3	70.1	71.2	—	52.2	53.6	53.3	54.3	—
Ready-mixed concrete	3273	94.7	99.5	96.9	97.3	—	73.1	77.6	75.4	75.9	—
Misc. nonmetallic mineral products	329	76.1	76.1	75.5	75.2	—	58.5	58.3	58.3	58.0	—
Abrasive products	3291	19.5	19.1	19.7	19.5	—	15.4	15.4	15.8	15.5	—
Asbestos products	3292	2.6	2.6	2.6	2.6	—	2.2	2.2	2.1	2.2	—
Mineral wool	3296	23.9	23.7	23.5	23.3	—	—	—	—	—	—
Primary metal industries	33	708.2	708.9	720.6	719.8	720.0	552.8	553.2	566.4	565.2	565.3
Blast furnaces and basic steel products	331	235.9	235.9	236.8	235.9	236.3	181.4	181.3	183.1	182.7	182.9
Blast furnaces and steel mills	3312	163.7	163.8	163.0	162.4	—	126.6	126.7	127.2	126.6	—
Steel pipe and tubes	3317	26.7	26.7	27.7	27.7	—	20.3	20.3	21.0	21.0	—
Iron and steel foundries	332	129.1	129.8	135.1	135.4	—	105.9	106.5	111.2	111.2	—
Gray and ductile iron foundries	3321	81.9	82.4	84.1	84.1	—	68.0	68.3	69.8	69.6	—
Malleable iron foundries	3322	3.8	3.8	3.9	3.9	—	2.9	2.9	3.0	3.0	—
Steel foundries, nec	3325	26.2	26.3	28.1	28.3	—	21.3	21.6	23.1	23.2	—
Primary nonferrous metals	333	38.8	38.9	39.2	39.0	—	30.3	30.2	30.4	30.1	—
Primary aluminum	3334	22.4	22.4	22.4	22.2	—	18.3	18.1	18.1	18.0	—
Nonferrous rolling and drawing	335	168.7	168.2	169.2	168.5	—	128.5	128.4	130.3	129.6	—
Copper rolling and drawing	3351	22.7	22.5	22.4	22.3	—	17.6	17.7	18.0	18.0	—
Aluminum sheet, plate, and foil	3353	21.5	21.5	21.2	20.9	—	16.0	15.9	16.0	15.7	—
Nonferrous wire drawing and insulating	3357	72.6	72.6	72.7	72.8	—	54.9	54.9	55.4	55.5	—
Nonferrous foundries (castings)	336	90.3	90.5	93.1	93.7	—	73.4	73.4	75.7	76.0	—
Aluminum foundries	3365	24.4	24.5	25.3	25.4	—	20.0	20.0	20.7	20.8	—
Fabricated metal products	34	1,457.3	1,461.0	1,491.6	1,492.6	1,490.8	1,097.9	1,101.3	1,126.2	1,129.0	1,126.7
Metal cans and shipping containers	341	38.0	38.1	37.5	37.3	—	32.6	32.6	31.8	31.6	—
Metal cans	3411	30.7	30.8	30.3	30.2	—	26.6	26.7	26.1	26.0	—
Cutlery, handtools, and hardware	342	125.6	126.1	127.5	127.4	—	95.3	95.6	98.4	98.7	—
Hand and edge tools, and blades and handsaws	3423,5	43.3	43.2	43.1	43.1	—	33.5	33.4	33.0	33.2	—
Hardware, nec	3429	70.1	70.7	71.8	71.7	—	53.3	53.7	55.8	55.9	—
Plumbing and heating, except electric	343	58.4	57.9	59.8	59.5	—	41.8	41.2	42.3	42.1	—
Plumbing fixture fittings and trim	3432	23.6	23.5	23.6	23.7	—	17.2	17.0	17.1	17.2	—
Heating equipment, except electric	3433	20.6	20.3	21.7	21.3	—	13.7	13.5	14.4	14.0	—
Fabricated structural metal products	344	442.4	443.2	451.2	451.1	—	324.4	325.1	330.3	330.9	—
Fabricated structural metal	3441	76.0	76.1	76.4	76.8	—	56.1	56.0	55.9	56.3	—
Metal doors, sash, and trim	3442	75.0	74.9	76.0	75.5	—	55.3	55.3	55.3	55.4	—
Fabricated plate work (boiler shops)	3443	101.1	101.3	102.1	102.8	—	73.3	73.4	74.0	74.9	—
Sheet metal work	3444	119.7	119.6	123.0	123.2	—	92.2	92.2	94.5	94.6	—
Architectural metal work	3446	29.6	29.8	30.5	30.5	—	20.8	21.0	22.4	22.3	—
Screw machine products, bolts, etc	345	101.9	102.7	106.9	107.2	—	79.9	80.6	84.0	84.4	—
Screw machine products	3451	52.9	53.4	56.2	56.3	—	43.1	43.4	45.6	46.0	—
Bolts, nuts, rivets, and washers	3452	49.0	49.3	50.7	50.9	—	36.8	37.2	38.4	38.4	—
Metal forgings and stampings	346	252.8	253.2	259.1	258.8	—	202.4	202.9	205.4	205.6	—
Iron and steel forgings	3462	31.0	31.2	33.0	33.0	—	23.7	23.9	25.3	25.4	—
Automotive stampings	3465	116.4	116.2	116.9	116.1	—	97.2	96.8	95.7	95.4	—
Metal stampings, nec	3469	94.1	94.6	97.7	98.1	—	72.9	73.6	75.7	76.0	—

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Durable goods—Continued											
Fabricated metal products—Continued											
Metal services, nec	347	139.3	140.0	145.5	146.0	—	111.1	111.8	117.5	118.0	—
Plating and polishing	3471	85.3	86.1	90.5	90.4	—	68.3	69.1	74.1	73.9	—
Metal coating and allied services	3479	54.0	53.9	55.0	55.6	—	42.8	42.7	43.4	44.1	—
Ordnance and accessories, nec	348	44.5	44.2	41.3	41.6	—	23.8	23.8	23.2	23.2	—
Ammunition, except for small arms, nec	3483	23.2	22.8	21.7	22.0	—	9.5	9.5	9.9	9.9	—
Miscellaneous fabricated metal products	349	254.4	255.6	262.8	263.7	—	186.6	187.7	193.3	194.5	—
Valves and pipe fittings, nec	3494	25.3	25.2	25.6	25.7	—	18.8	18.8	18.9	19.0	—
Misc. fabricated wire products	3496	54.6	55.1	55.7	55.6	—	41.2	41.7	41.9	42.0	—
Industrial machinery and equipment	35	2,134.5	2,142.3	2,193.1	2,200.8	2,204.8	1,340.7	1,349.8	1,383.9	1,392.4	1,395.2
Engines and turbines	351	82.6	82.4	82.4	82.3	—	53.2	53.0	51.9	51.9	—
Turbines and turbine generator sets	3511	24.3	24.2	24.3	24.1	—	13.8	13.8	13.8	13.7	—
Internal combustion engines, nec	3519	58.3	58.2	58.1	58.2	—	39.4	39.2	38.1	38.2	—
Farm and garden machinery	352	107.4	108.7	107.8	108.3	—	78.8	80.2	79.0	79.6	—
Farm machinery and equipment	3523	76.0	76.8	79.3	79.3	—	54.8	55.4	57.6	57.7	—
Construction and related machinery	353	234.6	236.1	248.8	249.6	—	152.2	153.4	162.6	163.2	—
Construction machinery	3531	86.5	86.8	89.9	90.4	—	59.2	59.5	61.8	62.4	—
Mining machinery	3532	16.7	16.7	16.6	16.5	—	9.9	9.9	10.0	9.8	—
Oil and gas field machinery	3533	41.9	42.8	49.3	49.8	—	28.2	28.9	33.6	34.0	—
Conveyors and conveying equipment	3535	41.1	41.4	42.8	42.6	—	23.3	23.4	23.6	23.2	—
Industrial trucks and tractors	3537	30.0	30.0	31.2	31.3	—	20.4	20.6	21.5	21.6	—
Metalworking machinery	354	348.3	349.3	354.1	353.4	—	248.1	248.9	254.2	253.6	—
Machine tools, metal cutting types	3541	41.8	41.8	42.3	42.3	—	26.1	26.0	26.8	26.8	—
Machine tools, metal forming types	3542	17.5	17.4	17.7	17.7	—	11.2	11.2	11.3	11.1	—
Special dies, tools, jigs, and fixtures	3544	167.3	167.8	171.3	171.1	—	127.8	128.2	131.5	131.5	—
Machine tool accessories	3545	53.0	53.3	54.2	54.2	—	37.0	37.2	38.7	38.7	—
Power driven handtools	3546	22.3	22.3	20.8	20.8	—	15.6	15.6	14.6	14.6	—
Special industry machinery	355	175.3	175.7	183.1	183.3	—	98.3	98.4	100.0	100.0	—
Textile machinery	3552	14.9	14.9	15.2	15.3	—	10.0	10.0	10.0	10.0	—
Printing trades machinery	3555	21.8	21.9	22.3	22.5	—	12.4	12.5	12.6	12.7	—
Food products machinery	3556	25.4	25.6	25.3	25.2	—	15.2	15.3	15.0	15.0	—
General industrial machinery	356	257.4	256.9	261.9	262.6	—	165.1	164.6	168.2	168.8	—
Pumps and pumping equipment	3561	30.4	30.5	30.3	30.3	—	17.4	17.4	17.7	17.7	—
Ball and roller bearings	3562	39.7	39.7	40.5	40.6	—	31.3	31.3	31.6	31.6	—
Air and gas compressors	3563	26.1	25.8	26.1	26.2	—	15.3	15.0	15.0	15.2	—
Blowers and fans	3564	35.4	35.4	36.1	36.0	—	23.9	23.9	24.5	24.6	—
Speed changers, drives, and gears	3566	17.5	17.5	18.3	18.4	—	12.4	12.4	13.3	13.3	—
Power transmission equipment, nec	3568	21.3	21.3	21.9	22.1	—	15.0	15.0	15.4	15.5	—
Computer and office equipment	357	368.5	371.5	385.9	385.5	385.6	131.6	136.4	146.5	147.4	—
Electronic computers	3571	192.8	193.6	200.8	200.7	—	58.5	61.8	69.5	70.3	—
Computer terminals, calculators, and office machines, nec	3575.8.9	57.4	58.3	61.0	60.9	—	22.7	22.9	23.3	23.7	—
Refrigeration and service machinery	358	207.2	207.5	202.5	207.2	—	149.5	150.0	145.2	149.8	—
Refrigeration and heating equipment	3585	143.7	143.7	137.6	142.2	—	109.7	109.9	104.4	108.9	—
Misc. industrial and commercial machinery	359	353.2	354.2	366.6	368.6	—	263.9	264.9	276.3	278.1	—
Carburetors, pistons, rings, valves	3592	23.0	23.2	23.1	23.2	—	18.2	18.2	18.5	18.6	—
Scales, balances, and industrial machinery, nec	3596.9	283.4	284.1	294.3	295.8	—	216.5	217.4	227.0	228.4	—
Electronic and other electrical equipment	36	1,642.6	1,642.1	1,684.0	1,682.7	1,683.1	1,043.4	1,042.7	1,069.3	1,066.4	1,065.7
Electric distribution equipment	361	80.5	79.8	80.9	80.7	—	54.8	54.3	54.9	54.8	—
Transformers, except electronic	3612	38.9	38.1	38.2	38.0	—	27.5	26.8	26.2	26.2	—
Switchgear and switchboard apparatus	3613	41.6	41.7	42.7	42.7	—	27.3	27.5	28.7	28.6	—
Electrical industrial apparatus	362	154.4	154.0	154.0	153.4	—	107.6	107.2	107.0	106.3	—
Motors and generators	3621	74.5	74.2	74.9	74.7	—	58.0	57.6	58.0	57.6	—
Relays and industrial controls	3625	59.5	59.6	58.2	57.8	—	34.8	35.0	33.9	33.6	—
Household appliances	363	117.8	118.3	116.9	116.6	—	93.1	94.0	92.4	92.3	—
Household refrigerators and freezers	3632	29.5	30.3	25.6	25.8	—	23.7	24.4	20.0	20.3	—
Household laundry equipment	3633	16.9	16.8	18.0	18.0	—	13.3	13.2	14.3	14.3	—
Electric housewares and fans	3634	25.4	25.4	25.9	25.6	—	19.3	19.7	19.5	19.3	—

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment	364	178.5	177.4	179.9	180.0	-	128.2	127.2	128.6	128.7	-
Electric lamps	3641	22.7	22.6	22.5	22.5	-	17.5	17.5	17.5	17.4	-
Current-carrying wiring devices	3643	62.0	61.6	62.7	62.6	-	40.4	40.1	41.3	41.6	-
Noncurrent-carrying wiring devices	3644	17.4	17.5	17.6	17.6	-	13.4	13.5	13.0	13.1	-
Residential lighting fixtures	3645	20.4	20.3	20.4	20.7	-	15.6	15.3	15.4	15.7	-
Household audio and video equipment	365	79.7	79.1	76.6	75.7	-	52.4	50.9	49.3	48.8	-
Household audio and video equipment	3651	53.7	53.6	52.8	52.2	-	32.0	31.8	31.1	31.0	-
Communications equipment	366	270.2	269.7	274.9	276.1	-	129.1	128.6	131.0	129.8	-
Telephone and telegraph apparatus	3661	112.2	112.3	116.9	117.8	-	57.0	56.7	56.6	56.5	-
Electronic components and accessories	367	611.4	614.3	653.6	652.8	652.4	369.1	371.9	399.2	399.3	-
Electron tubes	3671	22.8	22.7	22.8	22.8	-	16.1	16.3	16.9	16.8	-
Semiconductors and related devices	3674	255.7	257.4	279.3	279.1	-	116.4	117.6	129.0	129.5	-
Electronic components, nec	3679	137.7	138.0	143.4	143.1	-	92.4	92.9	99.0	98.7	-
Misc. electrical equipment and supplies	369	150.1	149.5	147.2	147.4	-	109.1	108.6	106.9	106.4	-
Storage batteries	3691	27.4	27.3	26.5	26.0	-	21.3	21.1	20.6	20.1	-
Engine electrical equipment	3694	67.2	66.6	66.9	67.1	-	53.7	53.2	52.4	52.1	-
Transportation equipment	37	1,801.7	1,812.1	1,865.3	1,876.0	1,880.8	1,220.8	1,229.7	1,262.2	1,272.9	1,280.3
Motor vehicles and equipment	371	961.6	969.2	983.6	990.7	993.8	759.0	765.4	771.2	777.8	780.5
Motor vehicles and car bodies	3711	335.4	340.1	336.4	341.6	-	256.5	260.5	252.9	258.2	-
Truck and bus bodies	3713	39.0	39.8	41.3	41.8	-	31.4	31.9	32.8	33.2	-
Motor vehicle parts and accessories	3714	534.5	535.7	546.1	546.2	-	428.0	429.1	437.0	436.6	-
Truck trailers	3715	34.3	34.9	40.1	40.8	-	27.6	28.3	32.3	33.1	-
Aircraft and parts	372	486.9	489.9	527.1	529.5	527.9	238.2	241.9	268.5	270.5	-
Aircraft	3721	258.3	259.4	277.8	278.4	-	105.5	107.3	119.0	118.9	-
Aircraft engines and engine parts	3724	98.0	98.2	102.6	103.0	-	51.7	52.1	54.8	55.7	-
Aircraft parts and equipment, nec	3728	130.6	132.3	146.7	148.1	-	81.0	82.5	94.7	95.9	-
Ship and boat building and repairing	373	151.6	151.3	150.5	151.8	-	116.9	115.5	114.6	116.2	-
Ship building and repairing	3731	96.9	96.3	94.3	94.3	-	71.1	69.4	67.8	68.1	-
Boat building and repairing	3732	54.7	55.0	56.2	57.5	-	45.8	46.1	46.8	48.1	-
Railroad equipment	374	35.4	35.2	35.3	35.2	-	26.9	26.8	26.8	26.9	-
Guided missiles, space vehicles, and parts	376	90.1	90.3	90.9	90.2	-	24.1	24.2	24.3	24.4	-
Guided missiles and space vehicles	3761	62.4	62.6	63.2	63.2	-	15.2	15.3	15.4	15.5	-
Miscellaneous transportation equipment	379	53.2	53.4	53.2	53.9	-	38.7	38.9	39.0	39.4	-
Travel trailers and campers	3792	21.5	21.6	22.3	22.8	-	18.0	18.2	18.8	19.2	-
Instruments and related products	38	852.9	852.5	862.1	859.1	861.8	421.4	420.7	425.4	426.4	428.3
Search and navigation equipment	381	160.4	160.3	162.2	162.0	-	43.8	43.6	42.3	42.6	-
Measuring and controlling devices	382	298.6	299.4	304.0	302.3	-	153.1	153.5	155.7	155.4	-
Environmental controls	3822	41.5	41.4	40.3	39.2	-	27.5	27.6	27.6	26.9	-
Process control instruments	3823	66.2	66.5	66.8	66.8	-	33.8	34.0	34.3	34.5	-
Instruments to measure electricity	3825	75.8	76.3	79.5	79.9	-	32.9	33.1	33.2	33.8	-
Medical instruments and supplies	384	267.3	266.1	270.8	270.5	-	157.0	156.4	158.6	159.4	-
Surgical and medical instruments	3841	104.0	103.6	104.3	104.2	-	67.1	66.8	66.1	66.8	-
Surgical appliances and supplies	3842	92.3	92.1	94.3	94.1	-	56.9	56.7	58.7	58.7	-
Ophthalmic goods	385	35.0	34.9	36.0	36.6	-	22.0	21.6	23.4	24.1	-
Photographic equipment and supplies	386	84.0	84.2	81.4	80.0	-	39.2	39.3	39.0	38.5	-
Watches, clocks, watchcases, and parts	387	7.6	7.6	7.7	7.7	-	6.3	6.3	6.4	6.4	-
Miscellaneous manufacturing industries	39	384.1	384.9	380.0	382.6	385.0	269.6	270.1	264.5	267.4	270.1
Jewelry, silverware, and plated ware	391	48.4	48.1	47.1	46.9	-	33.2	32.9	32.4	32.5	-
Jewelry, precious metal	3911	36.2	36.0	35.1	35.1	-	24.4	24.2	23.8	24.0	-
Musical instruments	393	15.7	15.7	16.4	16.4	-	12.4	12.4	12.9	12.9	-
Toys and sporting goods	394	111.5	111.2	104.2	105.3	-	77.3	76.9	70.4	71.6	-
Dolls, games, toys, and children's vehicles	3942,4	39.6	38.4	36.2	36.5	-	26.1	24.8	22.8	23.1	-
Sporting and athletic goods, nec	3949	71.9	72.8	68.0	68.8	-	51.2	52.1	47.6	48.5	-
Pens, pencils, office, and art supplies	395	31.7	31.5	30.4	30.6	-	21.6	21.4	20.9	21.0	-
Costume jewelry and notions	396	23.3	23.5	23.4	23.6	-	16.3	16.6	16.5	16.8	-
Costume jewelry	3961	13.0	13.2	13.0	13.2	-	9.0	9.3	9.3	9.6	-
Miscellaneous manufactures	399	153.5	154.9	158.5	159.8	-	108.8	109.9	111.4	112.6	-
Signs and advertising specialties	3993	66.6	66.8	69.7	69.7	-	44.0	43.9	45.3	45.5	-

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Nondurable goods		7,573	7,576	7,555	7,557	7,561	5,280	5,283	5,259	5,261	5,260
Food and kindred products	20	1,651.8	1,653.0	1,669.4	1,668.7	1,671.1	1,219.7	1,221.0	1,234.0	1,235.1	1,235.9
Meat products	201	479.0	479.8	486.2	486.8	-	406.3	406.8	412.2	412.9	-
Meat packing plants	2011	147.4	146.8	150.1	151.1	-	122.6	122.1	125.5	126.5	-
Sausages and other prepared meats	2013	94.8	95.2	96.4	95.6	-	73.6	73.7	74.4	73.6	-
Poultry slaughtering and processing	2015	236.8	237.8	239.7	240.1	-	210.1	211.0	212.3	212.8	-
Dairy products	202	140.7	141.7	140.8	140.9	-	93.1	93.8	94.5	94.4	-
Cheese, natural and processed	2022	40.0	40.1	40.5	40.0	-	32.6	32.7	33.1	32.5	-
Fluid milk	2026	61.5	61.7	61.5	61.7	-	34.9	34.9	35.5	35.6	-
Preserved fruits and vegetables	203	208.3	208.6	204.5	205.1	-	171.4	171.9	168.8	169.3	-
Canned specialties	2032	19.0	18.7	19.0	18.3	-	15.0	14.7	15.0	14.6	-
Canned fruits and vegetables	2033	59.2	59.6	56.2	56.0	-	46.9	47.2	44.8	44.3	-
Frozen fruits and vegetables	2037	42.3	42.4	43.0	43.9	-	36.6	36.7	37.1	37.9	-
Grain mill products	204	125.6	125.4	125.8	125.3	-	89.6	89.5	90.6	89.7	-
Flour and other grain mill products	2041	19.1	19.0	19.4	19.3	-	12.0	11.9	12.1	12.0	-
Prepared feeds, nec	2048	40.3	40.3	40.0	40.4	-	25.9	25.8	26.4	26.5	-
Bakery products	205	206.8	206.9	210.9	209.0	-	137.8	138.2	141.0	139.7	-
Bread, cake, and related products	2051	147.4	147.6	152.4	151.1	-	89.2	89.4	91.8	90.9	-
Cookies, crackers, and frozen bakery products, except bread	2052.3	59.4	59.3	58.5	57.9	-	48.6	48.8	49.2	48.8	-
Sugar and confectionery products	206	96.3	93.7	102.7	99.8	-	76.6	74.0	80.4	78.9	-
Raw cane sugar	2061	5.4	5.1	7.2	6.5	-	4.2	4.0	5.3	5.3	-
Cane sugar refining	2062	4.3	4.3	4.2	4.2	-	3.3	3.3	3.1	3.2	-
Beet sugar	2063	7.4	7.3	9.8	8.8	-	6.4	6.3	8.8	7.8	-
Candy and other confectionery products	2064	53.6	51.7	55.1	54.3	-	43.8	41.8	43.4	42.9	-
Fats and oils	207	30.8	30.7	32.3	32.1	-	22.0	22.1	22.6	22.3	-
Beverages	208	176.1	177.0	178.7	178.3	-	84.4	85.0	87.4	87.4	-
Malt beverages	2082	34.7	34.7	34.1	33.8	-	22.2	22.3	21.9	21.4	-
Bottled and canned soft drinks	2086	93.1	93.7	93.5	93.7	-	38.2	38.4	38.0	38.7	-
Misc. food and kindred products	209	188.2	189.2	187.5	191.4	-	138.5	139.7	136.5	140.5	-
Tobacco products	21	42.6	40.8	42.8	42.3	40.2	33.3	31.3	34.7	33.2	31.7
Cigarettes	211	27.8	27.9	26.8	27.4	-	20.7	20.7	20.8	20.5	-
Textile mill products	22	609.5	611.0	597.1	595.5	596.3	516.9	518.3	506.8	505.7	506.9
Broadwoven fabric mills, cotton	221	70.9	72.3	68.6	69.8	-	63.1	64.3	61.2	62.4	-
Broadwoven fabric mills, synthetics	222	64.3	64.1	66.4	66.1	-	54.1	53.9	56.4	56.2	-
Broadwoven fabric mills, wool	223	14.6	14.7	14.0	11.9	-	12.5	12.6	11.8	9.5	-
Narrow fabric mills	224	20.7	20.8	20.5	20.6	-	17.2	17.3	17.0	17.0	-
Knitting mills	225	173.9	174.0	164.2	163.8	-	149.2	149.5	139.9	139.9	-
Women's hosiery, except socks	2251	20.6	20.5	18.9	18.8	-	18.0	17.9	16.6	16.4	-
Hosiery, nec	2252	39.1	39.1	37.3	36.9	-	34.1	34.2	32.3	32.1	-
Knit outerwear mills	2253	53.0	52.9	49.4	49.4	-	45.2	45.2	42.4	42.4	-
Knit underwear mills	2254	17.6	17.6	13.6	13.5	-	15.7	15.7	11.9	11.9	-
Weft knit fabric mills	2257	22.5	22.9	23.6	23.7	-	18.7	19.1	19.7	20.0	-
Textile finishing, except wool	226	66.5	66.0	63.8	63.9	-	54.4	53.9	52.4	52.5	-
Finishing plants, cotton	2261	31.0	30.7	29.9	29.9	-	25.4	25.1	24.5	24.5	-
Finishing plants, synthetics	2262	21.4	21.3	20.4	20.4	-	17.1	17.0	16.5	16.5	-
Carpets and rugs	227	60.9	60.8	62.9	63.0	-	49.9	49.6	53.0	53.0	-
Yarn and thread mills	228	87.3	87.6	86.7	86.2	-	77.6	77.9	76.5	76.4	-
Yarn spinning mills	2281	63.6	63.9	63.2	62.4	-	56.9	57.2	56.2	55.9	-
Throwing and winding mills	2282	16.7	16.7	16.4	16.6	-	14.4	14.4	13.9	14.1	-
Miscellaneous textile goods	229	50.4	50.7	50.0	50.2	-	38.9	39.3	38.6	38.8	-
Apparel and other textile products	23	826.7	822.8	780.9	779.1	778.3	676.8	673.5	632.6	630.7	629.0
Men's and boys' suits and coats	231	31.4	31.2	30.0	29.8	-	25.4	25.3	24.3	24.2	-
Men's and boys' furnishings	232	214.9	214.3	198.3	195.5	-	182.3	181.3	167.6	164.6	-
Men's and boys' shirts	2321	45.7	45.5	40.5	40.6	-	39.1	38.8	35.2	35.2	-
Men's and boys' trousers and slacks	2325	72.4	71.9	68.1	67.7	-	62.5	61.9	58.8	58.2	-
Men's and boys' work clothing	2326	31.8	32.0	29.8	29.4	-	27.2	27.3	25.6	25.3	-
Women's and misses' outerwear	233	242.4	241.0	225.3	227.0	-	197.3	196.1	180.8	181.9	-
Women's and misses' blouses and shirts	2331	25.5	25.9	22.8	22.7	-	19.9	20.2	17.5	17.3	-
Women's, juniors', and misses' dresses	2335	37.7	38.1	35.5	36.8	-	29.5	30.0	27.3	28.3	-
Women's and misses' suits and coats	2337	23.0	22.8	24.4	24.0	-	18.0	17.8	19.1	18.7	-
Women's and misses' outerwear, nec	2339	156.2	154.2	142.6	143.5	-	129.9	128.1	116.9	117.6	-

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	38.1	37.7	35.2	34.6	-	30.1	29.9	27.7	27.4	-
Women's and children's underwear	2341	27.7	27.1	25.9	25.5	-	22.8	22.3	21.0	20.7	-
Brassieres, girdles, and allied garments	2342	10.4	10.6	9.3	9.1	-	7.3	7.6	6.7	6.7	-
Girls' and children's outerwear	236	31.6	30.1	27.9	27.9	-	26.1	24.8	22.8	22.8	-
Girls' and children's dresses and blouses	2361	12.4	11.6	10.8	10.5	-	10.6	9.9	9.3	9.0	-
Misc. apparel and accessories	238	33.0	33.5	31.8	32.1	-	26.5	27.1	25.3	25.5	-
Misc. fabricated textile products	239	216.0	215.7	214.6	214.3	-	173.8	173.6	170.1	170.1	-
Curtains and draperies	2391	19.7	19.6	18.2	18.3	-	15.6	15.5	13.9	14.0	-
House furnishings, nec	2392	54.4	54.8	55.6	56.4	-	46.0	46.6	47.0	47.6	-
Automotive and apparel trimmings	2396	58.7	58.6	58.7	58.5	-	47.1	46.8	45.9	45.5	-
Paper and allied products	26	674.3	673.1	676.0	675.1	674.0	513.6	512.6	516.1	514.7	514.7
Paper mills	262	159.3	158.5	157.6	156.4	-	123.3	123.3	122.4	122.2	-
Paperboard mills	263	49.4	48.7	49.3	49.2	-	37.8	37.2	38.2	38.1	-
Paperboard containers and boxes	265	217.1	216.8	217.4	217.2	-	168.6	168.0	168.8	168.2	-
Corrugated and solid fiber boxes	2653	130.2	129.8	131.4	131.4	-	97.8	97.2	98.4	98.2	-
Sanitary food containers	2656	17.2	17.3	16.4	16.5	-	15.3	15.4	14.7	14.8	-
Folding paperboard boxes	2657	48.2	48.1	47.5	47.6	-	39.0	39.0	38.7	38.6	-
Misc. converted paper products	267	236.1	236.9	240.0	240.7	-	174.0	174.4	177.4	177.0	-
Paper, coated and laminated, nec	2672	45.4	45.6	47.2	47.3	-	23.6	23.4	25.0	24.7	-
Bags: plastics, laminated, and coated	2673	38.3	38.6	39.0	39.0	-	29.6	29.9	30.7	30.6	-
Envelopes	2677	24.0	24.0	24.9	24.7	-	18.8	18.8	19.4	19.4	-
Printing and publishing	27	1,531.5	1,533.9	1,553.0	1,555.4	1,554.4	832.1	835.1	840.2	839.5	836.7
Newspapers	271	442.0	442.0	449.5	451.0	-	147.5	148.0	149.8	149.3	-
Periodicals	272	131.4	131.8	134.3	134.7	-	44.2	44.7	45.9	45.4	-
Books	273	123.8	124.6	124.1	123.9	-	65.9	66.1	65.1	64.4	-
Book publishing	2731	84.6	84.9	84.8	84.5	-	34.8	34.7	33.8	33.1	-
Book printing	2732	39.2	39.7	39.3	39.4	-	31.1	31.4	31.3	31.3	-
Miscellaneous publishing	274	85.9	86.7	91.9	92.1	-	39.7	40.1	43.3	43.3	-
Commercial printing	275	562.9	563.6	568.3	569.2	-	401.4	402.3	403.2	404.4	-
Commercial printing, lithographic	2752	365.1	366.2	371.1	371.2	-	259.1	260.3	262.7	263.1	-
Commercial printing, nec	2759	178.2	177.6	178.1	178.6	-	126.8	126.3	125.7	126.2	-
Manifold business forms	276	44.6	44.6	44.3	44.2	-	31.3	31.3	31.5	31.6	-
Blankbooks and bookbinding	278	64.7	64.6	65.2	64.6	-	49.5	49.8	49.5	49.0	-
Printing trade services	279	49.8	49.7	48.3	48.2	-	34.2	34.1	32.6	32.4	-
Chemicals and allied products	28	1,024.0	1,025.6	1,022.3	1,024.5	1,027.8	565.2	566.2	573.5	577.3	578.1
Industrial inorganic chemicals	281	117.4	116.9	115.3	115.1	-	54.9	54.8	59.5	60.1	-
Industrial inorganic chemicals, nec	2819	72.3	71.8	70.0	69.9	-	36.0	35.9	35.3	35.3	-
Plastics materials and synthetics	282	156.9	156.9	153.9	153.3	-	105.1	105.3	103.3	103.5	-
Plastics materials and resins	2821	76.0	76.0	77.5	77.0	-	47.4	47.7	48.2	48.3	-
Organic fibers, noncellulosic	2824	48.1	48.2	46.7	46.7	-	37.3	37.5	36.9	37.0	-
Drugs	283	259.5	259.7	260.9	262.9	-	117.9	117.4	118.1	119.4	-
Pharmaceutical preparations	2834	206.6	206.4	207.2	209.2	-	96.1	95.6	95.3	96.7	-
Soap, cleaners, and toilet goods	284	151.3	151.9	153.9	154.3	-	92.2	92.3	95.4	96.9	-
Soap and other detergents	2841	39.7	39.6	39.7	39.4	-	21.7	21.6	22.0	22.5	-
Polishing, sanitation, and finishing preparations	2842,3	41.0	41.2	42.4	42.4	-	22.7	22.7	23.9	23.9	-
Toilet preparations	2844	70.6	71.1	71.8	72.5	-	47.8	48.0	49.5	50.5	-
Paints and allied products	285	52.8	53.0	53.5	53.7	-	28.1	28.2	28.4	28.5	-
Industrial organic chemicals	286	142.0	142.0	140.7	140.6	-	80.7	80.9	81.5	81.5	-
Cyclic crudes and intermediates	2865	25.7	25.9	25.9	25.9	-	15.7	15.9	15.5	15.7	-
Industrial organic chemicals, nec	2869	113.5	113.4	112.2	112.0	-	62.9	63.0	64.1	63.8	-
Agricultural chemicals	287	51.6	52.2	50.3	50.7	-	30.7	31.3	30.6	30.8	-
Miscellaneous chemical products	289	92.5	93.0	93.8	93.9	-	55.6	56.0	56.7	56.6	-
Petroleum and coal products	29	135.5	136.5	130.5	130.6	132.2	87.6	89.0	84.0	84.5	85.7
Petroleum refining	291	97.7	97.2	92.7	92.5	-	63.1	63.0	59.6	59.6	-
Asphalt paving and roofing materials	295	23.5	24.9	23.1	23.3	-	16.7	18.1	16.5	16.9	-
Rubber and misc. plastics products	30	984.3	986.4	996.2	998.5	1,000.5	763.6	764.9	772.0	774.6	776.7
Tires and inner tubes	301	78.2	78.0	77.7	79.0	-	57.1	57.2	57.1	57.6	-
Rubber and plastics footwear	302	6.5	6.8	7.2	6.7	-	5.3	5.6	5.5	5.2	-
Hose, belting, gaskets, and packing	305	68.4	69.0	71.6	71.7	-	52.2	52.8	55.6	55.6	-
Rubber and plastics hose and belting	3052	27.9	28.0	28.8	28.9	-	21.6	21.7	22.8	22.8	-
Fabricated rubber products, nec	306	114.6	114.9	115.9	116.1	-	88.4	88.4	88.9	89.1	-
Miscellaneous plastics products, nec	308	716.6	717.7	723.8	725.0	-	560.6	560.9	564.9	567.1	-

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Nondurable goods—Continued											
Leather and leather products	31	92.7	93.3	86.4	86.8	85.9	70.8	71.4	65.3	65.3	64.7
Leather tanning and finishing	311	13.0	13.0	13.0	13.1	—	10.7	10.7	10.7	10.6	—
Footwear, except rubber	314	43.0	42.8	37.4	37.5	—	34.4	34.3	29.9	30.0	—
Men's footwear, except athletic	3143	22.1	22.1	20.7	20.5	—	17.2	17.3	16.2	16.0	—
Women's footwear, except athletic	3144	12.2	12.1	9.7	9.6	—	9.8	9.7	7.6	7.5	—
Luggage	316	10.2	10.8	10.9	11.4	—	7.4	8.0	7.8	7.8	—
Handbags and personal leather goods	317	9.4	9.5	8.7	8.7	—	5.6	5.8	5.0	5.1	—
Transportation and public utilities		6,317	6,353	6,456	6,478	6,513	5,317	5,347	5,367	5,364	5,396
Transportation		4,096	4,123	4,200	4,217	4,239	—	—	—	—	—
Railroad transportation	40	223.4	223.8	228.5	227.9	228.3	—	—	—	—	—
Class I railroads plus Amtrak ²	4011	198.9	198.9	201.7	201.3	—	—	—	—	—	—
Local and interurban passenger transit	41	463.7	467.3	472.8	476.3	481.9	424.7	429.0	433.0	436.5	—
Local and suburban transportation	411	223.0	223.3	229.9	230.3	—	201.8	202.7	208.9	209.2	—
Taxicabs	412	31.0	31.3	32.1	32.2	—	—	—	—	—	—
Intercity and rural bus transportation	413	26.7	26.9	27.1	27.1	—	24.3	24.5	24.2	24.2	—
School buses	415	150.7	151.9	151.8	153.6	—	—	—	—	—	—
Trucking and warehousing	42	1,629.0	1,640.1	1,675.0	1,681.2	1,688.7	1,417.6	1,426.7	1,463.1	1,467.4	—
Trucking and courier services, except air	421	1,467.4	1,476.2	1,507.6	1,514.4	—	1,282.8	1,290.1	1,323.5	1,328.6	—
Public warehousing and storage	422	157.3	159.5	163.0	162.4	—	130.9	132.6	135.6	134.9	—
Water transportation	44	167.9	169.9	164.6	170.3	172.9	—	—	—	—	—
Water transportation of freight, nec	444	14.4	14.3	14.6	14.7	—	—	—	—	—	—
Water transportation services	449	112.1	113.6	110.5	116.2	—	98.7	99.8	96.2	101.8	—
Transportation by air	45	1,169.6	1,176.4	1,207.4	1,204.9	1,207.5	—	—	—	—	—
Air transportation, scheduled	451	1,007.6	1,013.9	1,034.5	1,031.3	—	—	—	—	—	—
Air transportation, scheduled	4512	518.5	522.2	541.3	543.1	—	—	—	—	—	—
Airports, flying fields, and services	458	117	117	126	127	—	—	—	—	—	—
Pipelines, except natural gas	46	14.2	14.2	14.2	14.1	14.1	11.5	11.5	11.6	11.4	—
Transportation services	47	428.5	431.6	437.6	442.7	445.7	348.3	351.9	357.9	361.8	—
Passenger transportation arrangement	472	218.5	221.0	215.1	217.1	—	181.9	184.3	180.3	182.3	—
Travel agencies	4724	172.9	174.5	172.2	174.2	—	144.2	145.7	144.6	146.5	—
Freight transportation arrangement	473	163.5	163.6	172.3	175.2	—	127.9	128.7	135.8	137.5	—
Communications and public utilities		2,221	2,230	2,256	2,261	2,274	—	—	—	—	—
Communications	48	1,351.1	1,358.9	1,397.2	1,402.1	1,414.7	1,057.9	1,064.2	1,038.8	1,032.6	—
Telephone communications	481	903.2	909.5	944.2	947.4	—	692.2	696.8	671.6	665.4	—
Telephone communications, except radio	4813	768.5	773.4	791.4	795.0	—	585.2	588.1	555.8	551.6	—
Radio and television broadcasting	483	247.7	248.8	250.7	250.3	—	205.9	207.2	207.7	207.5	—
Radio broadcasting stations	4832	116.7	117.8	120.5	120.3	—	—	—	—	—	—
Television broadcasting stations	4833	131.0	131.0	130.2	130.0	—	—	—	—	—	—
Cable and other pay television services	484	177.8	178.5	179.9	181.9	—	148.5	149.0	149.4	149.7	—
Electric, gas, and sanitary services	49	870.2	871.1	858.7	858.6	858.8	689.7	690.8	683.6	680.8	—
Electric services	491	379.1	379.4	373.6	373.0	—	300.8	301.8	300.0	297.8	—
Gas production and distribution	492	143.5	143.7	140.8	140.6	—	111.4	111.3	109.3	108.9	—
Combination utility services	493	160.4	160.9	157.9	157.8	—	124.3	124.9	121.9	122.0	—
Sanitary services	495	154.6	154.5	153.3	154.1	—	127.7	127.3	126.3	126.0	—
Wholesale trade		6,536	6,571	6,722	6,737	6,758	5,265	5,299	5,385	5,395	5,413
Durable goods	50	3,857	3,877	4,003	4,022	4,033	3,070	3,090	3,157	3,172	—
Motor vehicles, parts, and supplies	501	504.4	506.1	511.3	512.4	—	411.8	413.1	411.2	410.8	—
Automobiles and other motor vehicles	5012	140.8	141.1	145.8	146.1	—	—	—	—	—	—
Motor vehicle supplies and new parts	5013	288.7	289.6	289.6	290.0	—	—	—	—	—	—
Furniture and home furnishings	502	157.8	159.6	164.9	165.8	—	125.6	127.1	130.6	131.7	—
Furniture	5021	74.8	75.7	79.5	79.9	—	—	—	—	—	—
Home furnishings	5023	83.0	83.9	85.4	85.9	—	—	—	—	—	—

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Wholesale trade—Continued											
Durable goods—Continued											
Lumber and other construction materials	503	243.1	246.6	249.3	250.1	—	199.6	203.0	205.2	206.3	—
Lumber, plywood, and millwork	5031	125.4	126.3	129.4	129.9	—	—	—	—	—	—
Construction materials, nec	5039	37.1	37.8	37.2	37.1	—	—	—	—	—	—
Professional and commercial equipment	504	840.9	844.9	878.3	882.8	—	661.6	667.1	682.2	685.6	—
Office equipment	5044	198.9	199.4	211.2	211.3	—	—	—	—	—	—
Computers, peripherals and software	5045	326.4	328.3	337.0	341.4	—	—	—	—	—	—
Medical and hospital equipment	5047	177.7	179.1	185.5	186.4	—	144.4	145.1	149.3	150.2	—
Metals and minerals, except petroleum	505	143.4	144.2	147.2	147.9	—	115.8	116.5	119.1	119.5	—
Electrical goods	506	528.3	531.6	558.5	560.9	—	397.9	399.4	408.8	410.7	—
Electrical apparatus and equipment	5063	224.6	225.2	238.6	239.1	—	—	—	—	—	—
Electrical appliances, television and radio sets	5064	48.3	48.6	49.4	49.4	—	—	—	—	—	—
Electronic parts and equipment	5065	255.4	257.8	270.5	272.4	—	—	—	—	—	—
Hardware, plumbing, and heating equipment	507	300.9	301.6	303.8	305.5	—	244.5	245.7	246.4	248.0	—
Hardware	5072	105.5	105.7	107.3	108.4	—	—	—	—	—	—
Plumbing and hydronic heating supplies	5074	119.0	119.3	119.4	120.0	—	—	—	—	—	—
Machinery, equipment, and supplies	508	811.9	815.8	842.3	846.0	—	648.8	652.9	672.3	675.6	—
Construction and mining machinery	5082	85.8	86.1	91.1	91.3	—	—	—	—	—	—
Farm and garden machinery	5083	119.0	120.8	122.3	123.2	—	—	—	—	—	—
Industrial machinery and equipment	5084	330.6	331.5	344.2	345.4	—	—	—	—	—	—
Industrial supplies	5085	151.2	151.5	156.0	156.7	—	—	—	—	—	—
Misc. wholesale trade durable goods	509	325.9	327.0	347.1	350.9	—	264.7	265.3	280.9	284.0	—
Scrap and waste materials	5093	129.2	130.3	137.6	139.0	—	—	—	—	—	—
Nondurable goods											
Paper and paper products	51	2,679	2,694	2,719	2,715	2,725	2,195	2,209	2,228	2,223	—
Paper and allied products	511	261.2	263.8	262.2	261.2	—	220.2	222.4	218.9	217.7	—
Stationery and office supplies	5112	150.1	151.6	151.6	150.8	—	—	—	—	—	—
Drugs, proprietaries, and sundries	512	210.3	211.0	212.9	213.3	—	175.0	175.9	176.5	176.6	—
Apparel, piece goods, and notions	513	219.9	222.0	220.5	220.9	—	176.1	178.2	178.3	178.8	—
Groceries and related products	514	899.9	899.3	914.7	911.3	—	754.7	755.0	769.5	766.1	—
Groceries, general line	5141	282.6	283.0	290.6	289.7	—	—	—	—	—	—
Meats and meat products	5147	56.8	56.6	57.3	57.0	—	—	—	—	—	—
Fresh fruits and vegetables	5148	105.3	102.1	98.8	98.1	—	—	—	—	—	—
Farm-product raw materials	515	102.4	102.9	104.2	102.8	—	82.1	82.1	83.5	82.1	—
Chemicals and allied products	516	146.5	146.4	146.1	144.7	—	106.9	107.0	106.4	105.5	—
Petroleum and petroleum products	517	158.0	158.8	162.6	162.1	—	130.3	131.4	134.5	133.4	—
Petroleum bulk stations and terminals	5171	64.5	65.1	67.9	67.7	—	—	—	—	—	—
Petroleum products, nec	5172	93.5	93.7	94.7	94.4	—	—	—	—	—	—
Beer, wine, and distilled beverages	518	154.3	155.1	155.5	154.6	—	124.2	125.1	125.1	124.8	—
Beer and ale	5181	99.9	100.5	101.1	100.3	—	—	—	—	—	—
Wine and distilled beverages	5182	54.4	54.6	54.4	54.3	—	—	—	—	—	—
Misc. wholesale trade nondurable goods	519	526.3	534.3	540.0	544.5	—	425.3	432.1	435.7	437.8	—
Farm supplies	5191	161.4	167.3	167.3	168.5	—	—	—	—	—	—
Retail trade		21,383	21,494	22,056	21,924	21,964	18,780	18,887	19,355	19,228	19,257
Building materials and garden supplies	52	865.3	888.3	893.3	892.8	911.9	714.9	735.7	736.9	734.3	—
Lumber and other building materials	521	530.5	542.2	554.0	551.9	—	446.1	456.7	466.0	462.0	—
Paint, glass, and wallpaper stores	523	64.3	64.5	66.4	67.5	—	49.9	49.7	51.4	52.2	—
Hardware stores	525	161.8	162.7	163.9	161.7	—	132.9	133.6	134.1	132.2	—
Retail nurseries and garden stores	526	71.0	80.5	68.6	70.5	—	56.4	65.5	53.9	55.5	—
General merchandise stores	53	2,653.0	2,674.1	2,866.9	2,763.3	2,750.6	2,462.9	2,483.7	2,653.9	2,551.5	—
Department stores	531	2,327.0	2,351.7	2,510.0	2,427.1	2,416.4	2,184.0	2,208.1	2,347.7	2,265.6	—
Variety stores	533	132.6	133.0	139.7	134.2	—	112.6	112.9	117.7	112.5	—
Miscellaneous general merchandise stores	539	193.4	189.4	217.2	202.0	—	166.3	162.7	188.5	173.4	—
Food stores	54	3,437.7	3,430.3	3,516.0	3,501.1	3,488.4	3,118.7	3,109.2	3,184.7	3,168.9	—
Grocery stores	541	3,023.4	3,016.3	3,075.2	3,056.3	—	2,765.2	2,756.2	2,807.1	2,788.4	—
Meat and fish markets	542	46.4	46.6	48.8	48.0	—	—	—	—	—	—
Dairy products stores	545	13.2	13.5	15.0	14.8	—	—	—	—	—	—
Retail bakeries	546	200.3	200.3	213.0	215.6	—	175.2	175.1	186.6	187.6	—
Automotive dealers and service stations	55	2,281.1	2,292.8	2,309.9	2,310.0	2,321.0	1,909.7	1,919.4	1,920.9	1,919.9	—
New and used car dealers	551	1,048.0	1,051.5	1,055.1	1,056.5	1,059.6	878.7	881.6	883.3	884.9	—

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Retail trade—Continued											
Automotive dealers and service stations—Continued											
Auto and home supply stores	553	383.3	386.3	400.7	398.9	—	308.2	311.9	309.2	306.7	—
Gasoline service stations	554	667.1	665.8	665.6	662.6	—	576.8	575.3	578.4	576.0	—
Automotive dealers, nec	559	9.3	9.5	10.1	10.2	—	7.9	8.0	8.3	8.3	—
Apparel and accessory stores											
Men's and boys' clothing stores	56	1,068.1	1,071.1	1,113.3	1,068.2	1,060.8	880.1	883.2	931.1	888.8	—
Women's clothing stores	561	78.8	78.9	77.9	75.4	—	62.8	62.9	63.1	61.1	—
Family clothing stores	562	287.8	287.1	289.9	281.5	—	237.7	237.7	241.3	234.0	—
Shoe stores	565	329.4	331.0	362.5	340.3	—	286.0	287.5	323.8	301.5	—
Shoe stores	566	197.7	199.3	202.4	195.2	—	154.3	156.5	159.1	153.5	—
Furniture and home furnishings stores											
Furniture and home furnishings stores	57	1,017.4	1,014.7	1,079.3	1,070.5	1,067.2	833.1	831.4	889.2	879.7	—
Furniture stores	571	525.7	527.2	549.4	546.1	—	426.3	427.6	447.5	444.0	—
Household appliance stores	5712	313.3	314.7	327.3	327.2	—	—	—	—	—	—
Radio, television, and computer stores	572	71.8	71.0	69.6	68.8	—	58.0	57.2	56.6	56.0	—
Radio, television, and electronic stores	573	419.9	416.5	460.3	455.6	—	348.8	346.6	385.1	379.7	—
Record and prerecorded tape stores	5731	191.8	188.8	208.3	206.3	—	160.9	158.0	174.8	172.4	—
Record and prerecorded tape stores	5735	81.1	81.5	88.2	85.9	—	65.9	66.5	73.9	71.6	—
Eating and drinking places	58	7,298.2	7,386.1	7,362.0	7,442.6	7,522.2	6,560.2	6,646.3	6,602.2	6,684.7	—
Miscellaneous retail establishments											
Drug stores and proprietary stores	59	2,762.6	2,736.3	2,914.8	2,875.7	2,841.7	2,300.2	2,277.7	2,435.9	2,400.2	—
Liquor stores	591	620.0	620.7	648.8	643.6	—	512.1	513.5	543.5	540.3	—
Used merchandise stores	592	110.6	109.7	113.1	111.2	—	—	—	—	—	—
Miscellaneous shopping goods stores	593	110.2	110.5	118.5	118.8	—	91.7	91.7	98.1	99.1	—
Sporting goods and bicycle shops	594	973.0	964.0	1,056.7	1,010.2	—	813.9	806.4	888.3	842.8	—
Book stores	5941	187.8	188.2	209.9	202.3	—	—	—	—	—	—
Stationery stores	5942	124.5	121.9	138.5	130.9	—	—	—	—	—	—
Jewelry stores	5943	88.2	87.1	92.3	91.1	—	—	—	—	—	—
Gift, novelty, and souvenir shops	5944	145.3	142.5	158.6	149.0	—	—	—	—	—	—
Sewing, needlework, and piece goods	5947	204.3	204.3	217.1	210.2	—	—	—	—	—	—
Nonstore retailers	5949	52.6	51.6	52.1	51.1	—	—	—	—	—	—
Catalog and mail-order houses	596	333.9	332.8	361.3	351.4	—	282.1	281.9	305.6	297.6	—
Merchandising machine operators	5961	212.6	210.8	237.6	227.9	—	—	—	—	—	—
Fuel dealers	5962	67.5	67.4	66.4	66.6	—	—	—	—	—	—
Retail stores, nec	598	104.1	102.2	105.2	103.7	—	86.5	84.7	88.0	86.4	—
Florists, tobacco stores, and newsstands	599	510.8	496.4	511.2	536.8	—	423.7	410.1	420.2	443.9	—
Optical goods stores	5992,3,4	168.7	150.5	153.6	178.1	—	—	—	—	—	—
Miscellaneous retail stores, nec	5995	69.4	70.1	75.1	76.4	—	58.1	58.7	61.3	61.8	—
Miscellaneous retail stores, nec	5999	272.7	275.8	282.5	282.3	—	219.0	222.7	229.0	228.2	—
Finance, insurance, and real estate³		6,924	6,951	7,115	7,132	7,178	5,045	5,063	5,202	5,221	5,263
Finance											
Depository institutions	60	2,026.2	2,030.3	2,058.7	2,056.7	2,062.6	1,458.2	1,460.9	1,479.2	1,477.4	—
Commercial banks	602	1,472.4	1,476.0	1,497.8	1,494.7	1,497.8	1,045.6	1,047.8	1,062.8	1,060.6	—
State commercial banks	6022	591.0	593.2	613.7	611.9	—	422.7	424.1	439.7	437.4	—
National and commercial banks, nec	6021,9	881.4	882.8	884.1	882.8	—	622.9	623.7	623.1	623.2	—
Savings institutions	603	253.6	253.5	252.0	251.0	251.8	—	—	—	—	—
Federal savings institutions	6035	143.0	143.0	142.9	142.1	—	—	—	—	—	—
Savings institutions, except federal	6036	110.6	110.5	109.1	108.9	—	—	—	—	—	—
Credit unions	606	167.2	167.6	173.5	174.4	—	132.4	133.0	137.6	138.3	—
Nondepository institutions	61	531.7	535.4	563.5	568.3	576.6	378.9	381.3	391.5	393.0	—
Personal credit institutions	614	162.1	162.5	170.8	170.5	—	113.7	114.2	107.5	104.6	—
Business credit institutions	615	108.9	110.0	117.8	117.4	—	—	—	—	—	—
Mortgage bankers and brokers	616	239.1	241.3	253.1	258.5	265.6	—	—	—	—	—
Security and commodity brokers	62	574.0	576.7	616.6	619.9	624.9	—	—	—	—	—
Security brokers and dealers	621	433.1	436.2	462.9	464.8	—	—	—	—	—	—
Commodity contracts brokers, dealers, and exchanges	622,3	24.6	24.8	26.0	26.1	—	—	—	—	—	—
Security and commodity services	628	116.3	115.7	127.7	129.0	—	76.4	76.4	84.8	85.9	—
Holding and other investment offices	67	214.6	216.1	233.4	235.2	235.5	—	—	—	—	—
Holding offices	671	108.5	109.0	114.8	115.0	—	—	—	—	—	—

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Finance, insurance, and real estate—Continued											
Insurance	63,64	2,213	2,215	2,252	2,257	2,266	-	-	-	-	-
Insurance carriers	63	1,499.0	1,498.3	1,523.6	1,525.4	1,535.3	1,077.4	1,077.1	1,135.2	1,143.8	-
Life insurance	631	504.0	502.9	509.1	507.7	-	333.4	330.4	335.2	335.9	-
Medical service and health insurance	632	331.4	330.4	339.0	339.9	-	271.9	270.4	274.8	275.5	-
Hospital and medical service plans	6324	270.3	269.2	278.0	278.7	-	224.5	223.0	229.0	229.3	-
Fire, marine, and casualty insurance	633	528.4	529.4	530.5	531.0	-	364.0	367.9	408.8	414.1	-
Title insurance	636	68.5	68.7	73.3	74.7	-	-	-	-	-	-
Insurance agents, brokers, and service	64	713.7	717.0	728.1	731.2	730.5	-	-	-	-	-
Real estate	65	1,364	1,377	1,391	1,395	1,412	-	-	-	-	-
Real estate operators and lessors	651	570.3	570.6	571.0	571.5	-	-	-	-	-	-
Real estate agents and managers	653	655.5	664.6	676.1	678.7	-	-	-	-	-	-
Subdividers and developers	655	105.5	108.9	108.1	108.4	-	-	-	-	-	-
Services		34,653	34,990	35,616	36,056	36,369	30,245	30,559	30,997	31,423	31,701
Agricultural services	07	546.2	580.0	575.8	572.9	608.3	451.2	482.6	474.3	471.4	-
Veterinary services	074	177.5	177.2	183.8	184.4	-	149.0	149.0	154.2	154.7	-
Landscape and horticultural services	078	321.3	354.1	342.8	339.5	-	263.1	293.5	279.0	275.7	-
Hotels and other lodging places	70	1,658.7	1,676.5	1,663.4	1,680.2	1,697.3	-	-	-	-	-
Hotels and motels	701	1,613.7	1,630.3	1,622.2	1,637.6	-	1,416.3	1,431.1	1,420.1	1,435.2	-
Personal services	72	1,265.7	1,257.1	1,231.4	1,263.6	1,262.3	-	-	-	-	-
Laundry, cleaning, and garment services	721	429.5	430.5	436.3	434.3	-	376.9	378.2	384.6	382.5	-
Photographic studios, portrait	722	74.3	74.7	63.1	63.6	-	-	-	-	-	-
Beauty shops	723	405.6	407.6	402.0	407.9	-	361.8	363.0	356.2	360.8	-
Funeral service and crematories	726	96.6	97.2	97.6	98.6	-	-	-	-	-	-
Miscellaneous personal services	729	242.9	230.5	216.6	243.4	-	214.0	202.7	191.7	217.2	-
Business services	73	7,338.8	7,459.1	7,778.5	7,840.8	7,938.1	6,492.8	6,607.2	6,865.4	6,925.0	-
Advertising	731	248.6	248.8	256.9	257.0	-	180.3	180.3	185.2	185.3	-
Advertising agencies	7311	166.6	167.2	170.8	170.8	-	-	-	-	-	-
Credit reporting and collection	732	127.8	128.7	130.7	130.8	-	-	-	-	-	-
Mailing, reproduction, and stenographic services	733	307.4	310.1	322.4	326.2	-	-	-	-	-	-
Photocopying and duplicating services	7334	77.0	77.2	79.5	80.4	-	65.6	65.6	67.7	68.3	-
Services to buildings	734	886.4	890.8	898.6	903.4	913.5	790.2	795.6	800.9	805.6	-
Disinfecting and pest control services	7342	82.8	84.9	86.5	86.8	-	65.8	67.8	69.4	69.6	-
Building maintenance services, nec	7349	803.6	805.9	812.1	816.6	-	724.4	727.8	731.5	736.0	-
Miscellaneous equipment rental and leasing	735	234.7	238.8	244.4	244.8	-	187.2	190.4	192.5	192.3	-
Medical equipment rental	7352	39.5	39.7	41.4	41.6	-	31.2	30.9	30.8	30.6	-
Heavy construction equipment rental	7353	43.1	43.6	42.8	42.8	-	36.3	36.5	36.0	36.0	-
Equipment rental and leasing, nec	7359	152.1	155.5	160.2	160.4	-	119.7	123.0	125.7	125.7	-
Personnel supply services	736	2,590.8	2,676.2	2,723.4	2,755.5	2,809.0	-	-	-	-	-
Employment agencies	7361	317.0	326.6	340.2	340.1	-	-	-	-	-	-
Help supply services	7363	2,273.8	2,349.6	2,383.2	2,415.4	2,465.9	2,203.1	2,279.9	2,309.4	2,338.9	-
Computer and data processing services	737	1,282.5	1,298.1	1,438.1	1,454.6	1,475.0	1,022.3	1,036.2	1,146.5	1,162.9	-
Computer programming services	7371	289.7	293.8	333.0	338.0	-	245.0	248.7	284.2	289.0	-
Prepackaged software	7372	211.1	212.6	242.0	245.0	-	-	-	-	-	-
Computer integrated systems design	7373	153.0	154.7	169.5	171.8	-	108.0	109.5	118.8	121.3	-
Data processing and preparation	7374	242.8	246.2	264.1	266.8	-	-	-	-	-	-
Information retrieval services	7375	71.8	72.7	80.3	80.0	-	52.4	53.2	56.4	55.7	-
Computer maintenance and repair	7378	54.3	54.6	55.3	55.4	-	39.0	39.0	38.0	37.8	-
Miscellaneous business services	738	1,660.6	1,667.6	1,764.0	1,768.5	-	1,447.3	1,450.4	1,534.2	1,539.3	-
Detective and armored car services	7381	547.7	550.7	586.7	585.1	-	506.7	508.8	541.2	539.6	-
Security systems services	7382	55.3	55.8	59.0	58.2	-	47.0	47.6	48.9	49.2	-
Photofinishing laboratories	7384	70.4	71.0	78.5	77.6	-	-	-	-	-	-
Auto repair, services, and parking	75	1,116.1	1,125.4	1,148.0	1,152.6	1,156.9	919.3	928.6	936.9	939.5	-
Automotive rentals, without drivers	751	197.2	199.8	208.9	210.8	-	161.7	164.3	170.1	172.2	-
Passenger car rental	7514	128.9	131.2	140.3	141.9	-	107.8	109.8	116.0	117.6	-
Automobile parking	752	68.6	68.1	70.3	70.2	-	60.5	60.1	61.4	61.3	-
Automotive repair shops	753	618.4	622.0	627.6	627.2	-	497.2	501.4	499.1	497.2	-
Automotive and tire repair shops	7532,4	216.5	217.6	220.1	220.9	-	177.4	178.7	179.7	180.3	-
General automotive repair shops	7538	261.1	261.4	265.6	264.1	-	210.1	210.8	208.5	206.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Services—Continued											
Auto repair, services, and parking—Continued											
Automotive services, except repair	754	231.9	235.5	241.2	244.4	—	199.9	202.8	206.3	208.8	—
Carwashes	7542	129.9	131.3	128.6	131.8	—	115.3	116.6	113.9	116.9	—
Miscellaneous repair services	76	374.0	377.5	385.6	386.8	388.3	305.3	308.7	314.7	315.8	—
Electrical repair shops	762	113.3	114.3	117.4	117.1	—	—	—	—	—	—
Motion pictures	78	529.7	532.8	557.5	563.6	561.5	440.8	444.3	464.4	474.1	—
Motion picture production and services	781	231.5	232.1	243.5	253.1	—	191.4	193.3	203.0	215.5	—
Motion picture theaters	783	116.5	117.3	118.7	117.3	—	—	—	—	—	—
Video tape rental	784	158.1	159.8	172.1	170.6	—	127.5	128.5	138.6	137.7	—
Amusement and recreation services	79	1,314.1	1,372.8	1,368.6	1,414.3	1,471.1	1,135.8	1,190.3	1,167.5	1,212.0	—
Bowling centers	793	84.1	84.5	79.7	80.6	—	75.8	76.2	71.3	72.0	—
Misc. amusement and recreation services	799	955.9	1,010.6	1,006.5	1,042.8	—	826.4	876.3	862.9	896.5	—
Physical fitness facilities	7991	162.7	165.6	173.6	177.9	—	144.8	147.4	154.4	157.6	—
Membership sports and recreation clubs	7997	262.4	280.4	283.2	287.4	—	223.6	240.4	241.4	245.3	—
Health services	80	9,575.2	9,603.7	9,776.4	9,789.6	9,810.9	8,482.2	8,507.3	8,663.5	8,675.2	—
Offices and clinics of medical doctors	801	1,714.3	1,716.1	1,780.6	1,784.5	1,786.2	1,405.3	1,406.4	1,465.6	1,469.9	—
Offices and clinics of dentists	802	617.4	619.1	625.5	626.1	—	540.2	542.5	545.4	546.6	—
Offices and clinics of other health practitioners	804	418.0	419.9	439.9	441.9	—	347.4	348.2	364.6	365.7	—
Offices and clinics of chiropractors and optometrists	8041.2	162.3	163.1	166.9	166.8	—	—	—	—	—	—
Nursing and personal care facilities	805	1,745.1	1,749.4	1,760.2	1,761.9	1,764.4	1,570.6	1,574.1	1,582.7	1,584.8	—
Skilled nursing care facilities	8051	1,301.8	1,304.5	1,310.8	1,312.5	—	—	—	—	—	—
Intermediate care facilities	8052	212.5	212.9	213.1	213.1	—	191.6	191.8	191.2	191.5	—
Nursing and personal care, nec	8059	230.8	232.0	236.3	236.3	—	—	—	—	—	—
Hospitals	806	3,841.5	3,851.1	3,919.5	3,926.4	3,935.3	3,517.4	3,526.0	3,592.2	3,597.7	—
General medical and surgical hospitals	8062	3,544.8	3,553.3	3,616.3	3,622.7	—	—	—	—	—	—
Psychiatric hospitals	8063	85.8	86.2	85.6	85.6	—	—	—	—	—	—
Specialty hospitals, excluding psychiatric	8069	210.9	211.6	217.6	218.1	—	—	—	—	—	—
Medical and dental laboratories	807	202.0	203.8	208.5	208.7	—	—	—	—	—	—
Home health care services	808	671.7	677.0	671.0	666.2	667.3	618.4	623.6	619.1	614.4	—
Legal services	81	938.3	942.9	970.7	974.6	978.3	748.8	752.3	773.5	776.9	—
Educational services	82	2,167.8	2,178.0	2,084.4	2,263.2	2,272.7	—	—	—	—	—
Elementary and secondary schools	821	613.4	614.6	618.5	627.6	—	—	—	—	—	—
Colleges and universities	822	1,298.6	1,305.7	1,200.8	1,359.4	—	—	—	—	—	—
Vocational schools	824	83.8	83.8	87.7	91.0	—	—	—	—	—	—
Social services	83	2,438.9	2,459.0	2,511.5	2,531.7	2,555.7	2,115.8	2,135.9	2,172.8	2,191.6	—
Individual and family services	832	656.8	661.4	670.3	678.4	—	570.0	574.6	579.3	587.2	—
Job training and related services	833	310.9	314.5	319.9	321.9	—	266.2	269.7	273.8	275.7	—
Child day care services	835	590.0	595.5	609.3	613.7	621.2	521.9	528.2	539.2	543.0	—
Residential care	836	683.0	688.4	712.4	716.6	723.6	591.8	597.2	617.6	621.6	—
Social services, nec	839	198.2	199.2	199.6	201.1	—	165.9	166.2	162.9	164.1	—
Museums and botanical and zoological gardens	84	79.1	81.4	80.8	81.6	84.3	—	—	—	—	—
Membership organizations	86	2,169.0	2,178.3	2,176.2	2,194.9	2,204.9	—	—	—	—	—
Business associations	861	105.8	106.6	106.6	107.4	—	—	—	—	—	—
Professional organizations	862	58.2	58.6	60.1	60.4	—	41.9	42.1	43.4	43.8	—
Labor organizations	863	139.2	144.4	137.3	139.9	—	—	—	—	—	—
Civic and social associations	864	431.9	434.2	438.3	451.4	—	—	—	—	—	—
Engineering and management services	87	2,926.9	2,950.1	3,093.0	3,128.9	3,162.0	2,238.0	2,256.1	2,357.3	2,391.1	—
Engineering and architectural services	871	850.6	857.7	896.5	897.1	904.6	695.4	702.0	734.1	733.5	—
Engineering services	8711	652.9	657.4	686.4	686.4	—	539.3	543.7	568.7	567.9	—
Architectural services	8712	143.1	144.2	152.3	152.9	—	111.7	112.5	118.6	118.8	—
Surveying services	8713	54.6	56.1	57.8	57.8	—	44.4	45.8	46.8	46.8	—
Accounting, auditing, and bookkeeping	872	603.5	607.3	629.8	651.3	—	434.7	436.1	444.4	467.0	—

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 ¹				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Services—Continued											
Engineering and management services—Continued											
Research and testing services	873	559.9	563.3	573.5	576.5	-	425.8	428.6	437.8	441.1	-
Commercial physical research	8731	208.6	208.2	213.0	211.6	-	144.1	143.8	147.8	146.7	-
Commercial nonphysical research	8732	124.1	126.5	129.6	133.6	-	102.1	104.3	107.2	111.1	-
Noncommercial research organizations	8733	138.9	140.5	142.0	143.0	-	108.0	109.0	110.9	111.8	-
Management and public relations	874	912.9	921.8	993.2	1,004.0	1,011.1	682.1	689.4	741.0	749.5	-
Management services	8741	317.5	322.2	341.8	344.5	-	233.7	238.8	253.0	255.4	-
Management consulting services	8742	320.5	324.8	359.4	364.4	-	240.7	243.5	267.0	270.9	-
Public relations services	8743	38.2	39.2	42.8	43.2	-	24.7	25.3	29.1	29.1	-
Services, nec	89	46.8	47.6	48.8	49.0	48.4	37.0	37.7	38.3	38.6	-
Government		19,836	19,950	19,699	20,102	20,207	-	-	-	-	-
Federal Government ⁴		2,700	2,700	2,654	2,661	2,663	-	-	-	-	-
Executive, by agency ⁴		2,639.4	2,639.5	2,593.0	-	-	-	-	-	-	-
Department of Defense		707.9	705.5	673.5	-	-	-	-	-	-	-
Postal Service ⁵		851.1	850.3	854.4	-	-	-	-	-	-	-
Other executive agencies		1,080.4	1,083.7	1,065.1	-	-	-	-	-	-	-
Legislative		31.1	31.2	30.9	-	-	-	-	-	-	-
Judicial		29.2	29.3	30.2	-	-	-	-	-	-	-
Federal Government, except Postal Service		1,848.6	1,849.7	1,799.7	1,808.0	1,810.4	-	-	-	-	-
Federal Government, by industry:											
Manufacturing activities		50.0	50.0	46.4	45.9	-	-	-	-	-	-
Ship building and repairing	3731	22.2	22.2	21.7	21.8	-	-	-	-	-	-
Transportation and public utilities, except Postal Service		21.7	21.6	18.9	18.9	-	-	-	-	-	-
Services		354.4	354.4	350.5	350.3	-	-	-	-	-	-
Hospitals	806	222.2	222.2	218.6	218.6	-	-	-	-	-	-
State government		4,725	4,748	4,600	4,761	4,789	-	-	-	-	-
Hospitals	806	370.6	370.3	370.6	370.4	-	-	-	-	-	-
Education	82	2,050.0	2,069.3	1,920.3	2,076.4	2,099.3	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		1,815.9	1,818.6	1,821.8	1,826.2	-	-	-	-	-	-
State government, except education		2,675.0	2,679.0	2,679.9	2,684.2	2,689.4	-	-	-	-	-
Local government		12,411	12,502	12,445	12,680	12,755	-	-	-	-	-
Transportation and public utilities		449.2	449.9	451.5	451.5	-	-	-	-	-	-
Hospitals	806	668.7	671.0	684.1	687.3	-	-	-	-	-	-
Education	82	7,174.1	7,237.6	7,121.3	7,338.4	7,396.6	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		3,653.2	3,672.0	3,699.6	3,710.1	-	-	-	-	-	-
Local government, except education		5,237.0	5,264.2	5,323.6	5,342.0	5,358.5	-	-	-	-	-

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

² Data relate to line-haul railroads with operating revenues of \$253.7 million or more in 1993 and to Amtrak.

³ Excludes nonoffice commissioned real estate sales agents.

⁴ Prepared by the Office of Personnel Management. Data relate to civilian

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

⁵ Includes rural mail carriers.

- Data not available.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 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	Dec. 1996	Jan. 1997	Nov. 1997	Dec. 1997	Jan. 1998
Total	59,241	57,984	60,517	60,744	59,449
Total private	48,165	47,140	49,177	49,434	48,375
Goods-producing	6,622	6,555	6,722	6,709	6,647
Mining	77	77	79	79	79
Construction	611	599	645	641	629
Manufacturing	5,934	5,879	5,998	5,989	5,939
Durable goods	2,857	2,845	2,940	2,946	2,939
Lumber and wood products	137	135	141	140	139
Furniture and fixtures	159	158	162	163	163
Stone, clay, and glass products	101	101	103	102	103
Primary metal industries	101	101	104	104	104
Fabricated metal products	323	321	330	331	331
Industrial machinery and equipment	461	463	482	484	486
Electronic and other electrical equipment	683	678	698	701	699
Transportation equipment	372	372	399	401	397
Instruments and related products	349	348	351	351	352
Miscellaneous manufacturing	171	168	171	169	166
Nondurable goods	3,077	3,034	3,058	3,043	3,000
Food and kindred products	553	538	566	555	542
Tobacco products	14	14	14	14	15
Textile mill products	288	285	281	281	276
Apparel and other textile products	624	613	589	584	572
Paper and allied products	164	163	166	165	163
Printing and publishing	697	689	703	706	699
Chemicals and allied products	325	324	326	326	323
Petroleum and coal products	24	24	25	25	23
Rubber and misc. plastics products	336	334	342	342	341
Leather and leather products	52	50	47	46	45
Service-producing	52,619	51,429	53,795	54,035	52,802
Transportation and public utilities	1,932	1,921	1,963	1,966	1,939
Wholesale trade	2,039	2,019	2,077	2,079	2,064
Retail trade	12,022	11,347	12,077	12,308	11,629
Finance, insurance, and real estate	4,387	4,370	4,477	4,495	4,487
Services	21,163	20,928	21,861	21,877	21,609
Government	11,076	10,844	11,340	11,310	11,074
Federal	1,174	1,143	1,141	1,164	1,129
State	2,387	2,318	2,470	2,440	2,367
Local	7,515	7,383	7,729	7,706	7,578

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1996 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		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Alabama	1,836.0	1,861.0	1,865.5	10.4	9.9	9.9	92.7	93.4	94.6
Birmingham	455.5	464.5	464.6	3.3	3.0	3.0	25.3	27.3	27.4
Huntsville	169.6	173.4	174.5	(1)	(1)	(1)	5.7	5.5	5.6
Mobile	214.5	218.9	220.5	(1)	(1)	(1)	16.1	16.0	16.5
Montgomery	154.8	155.3	155.4	(1)	(1)	(1)	8.2	7.7	7.7
Tuscaloosa	77.5	79.1	80.3	2.7	2.7	2.7	5.6	5.4	5.5
Alaska	253.2	252.8	260.0	9.1	9.6	9.9	9.4	9.5	9.7
Anchorage	118.4	121.2	121.9	2.3	2.4	2.5	5.0	5.3	5.2
Arizona	1,954.2	2,017.8	2,048.4	13.9	14.1	13.9	125.7	130.6	130.0
Phoenix-Mesa	1,362.6	1,421.4	1,443.4	6.5	6.5	6.5	90.8	94.1	94.0
Tucson	312.2	316.6	322.3	2.3	2.3	2.3	18.6	20.2	20.3
Arkansas	1,079.3	1,094.0	1,102.6	3.4	3.5	3.5	43.4	43.9	44.5
Fayetteville-Springdale-Rogers	135.6	136.0	137.8	(1)	(1)	(1)	5.5	5.2	5.4
Fort Smith	93.8	95.0	95.8	.9	.9	.9	3.9	4.1	4.2
Little Rock-North Little Rock	296.8	302.1	303.5	(1)	(1)	(1)	13.5	13.5	13.6
Pine Bluff	35.4	35.2	35.3	(1)	(1)	(1)	.9	.9	.9
California	12,852.6	13,248.5	13,345.8	29.0	29.0	28.8	510.9	555.2	557.1
Bakersfield	176.5	181.2	181.8	10.5	10.9	10.8	7.9	8.1	7.9
Fresno	267.2	271.4	272.9	.5	.5	.5	12.1	13.4	13.4
Los Angeles-Long Beach	3,820.8	3,893.9	3,927.8	5.7	5.6	5.6	106.8	110.5	111.1
Modesto	126.1	132.1	132.0	(2)	(2)	(2)	6.0	6.6	6.9
Oakland	928.9	956.9	960.9	2.3	2.3	2.3	47.5	49.1	48.5
Orange County	1,198.8	1,247.7	1,255.5	.9	.9	.9	53.8	59.6	59.7
Riverside-San Bernardino	827.0	860.8	866.6	1.3	1.1	1.1	46.4	52.8	53.0
Sacramento	609.3	625.7	628.8	.2	.2	.2	29.2	31.0	31.2
Salinas	114.2	117.2	117.1	.1	.1	.1	4.1	4.6	4.7
San Diego	1,026.6	1,059.4	1,067.1	.4	.4	.4	48.5	53.0	53.4
San Francisco	962.5	988.2	989.0	.6	.5	.5	33.0	34.9	35.1
San Jose	899.6	940.4	948.2	.1	.1	.1	34.0	39.3	39.1
Santa Barbara-Santa Maria-Lompoc	148.3	150.8	151.1	1.2	1.1	1.0	6.3	6.3	6.3
Santa Rosa	159.9	165.7	166.4	.5	.4	.4	8.1	8.4	8.3
Stockton-Lodi	161.4	164.4	164.8	.1	.1	.1	6.8	6.9	6.8
Vallejo-Fairfield-Napa	144.6	150.7	152.3	.5	.4	.5	9.3	10.0	10.0
Ventura	238.1	245.7	245.8	1.7	1.5	1.5	10.5	10.6	10.1
Colorado	1,931.9	1,999.3	2,012.6	13.5	13.9	14.1	107.2	118.3	120.2
Boulder-Longmont	152.7	159.0	161.5	(1)	(1)	(1)	5.9	6.1	6.4
Colorado Springs	210.6	213.2	213.7	(1)	(1)	(1)	11.6	12.2	12.3
Denver	1,027.2	1,060.4	1,064.2	6.9	6.6	6.7	56.7	61.9	63.2
Connecticut	1,579.6	1,612.8	1,620.2	.6	.7	.7	48.4	52.8	52.7
Bridgeport	179.2	182.2	182.1	(2)	(2)	(2)	5.1	5.7	5.7
Danbury	82.9	85.9	85.2	(1)	(1)	(1)	3.0	3.3	3.3
Hartford	587.0	590.1	594.6	(1)	(1)	(1)	17.0	17.8	17.7
New Haven-Meriden	245.5	245.9	247.6	(1)	(1)	(1)	8.1	8.3	8.5
New London-Norwich	131.8	135.7	135.8	(1)	(1)	(1)	3.9	4.4	4.4
Stamford-Norwalk	194.8	202.8	202.6	(1)	(1)	(1)	5.2	5.3	5.2
Waterbury	83.8	87.4	86.6	(2)	(2)	(2)	2.7	3.0	3.0
Delaware	373.9	385.8	387.5	.1	.1	.1	20.6	21.4	20.6
Dover	50.3	52.7	52.6	.1	.1	.1	2.1	2.1	2.1
Wilmington-Newark	292.4	303.2	305.2	.2	.2	.2	15.6	16.1	15.8
District of Columbia	612.9	601.7	605.9	.1	.1	.1	8.8	8.4	8.5
Washington PMSA	2,429.2	2,471.0	2,479.2	1.0	1.0	1.0	117.8	122.1	120.7
Florida	6,347.0	6,553.9	6,611.5	6.6	6.5	6.6	323.7	336.7	339.5
Daytona Beach	150.2	152.3	155.4	(2)	(2)	(2)	7.4	7.8	7.8
Fort Lauderdale	620.6	638.9	643.6	.1	.1	.1	33.4	32.9	33.7
Fort Myers-Cape Coral	151.6	153.9	155.0	(2)	(2)	(2)	12.0	12.9	12.8
Gainesville	110.3	114.0	114.1	(2)	(2)	(2)	4.2	4.3	4.4
Jacksonville	505.4	528.5	530.0	(2)	(2)	(2)	27.2	28.8	28.8
Lakeland-Winter Haven	168.3	171.8	173.4	3.1	2.9	3.0	8.5	8.3	8.6
Melbourne-Titusville-Palm Bay	174.5	179.5	180.7	(2)	(2)	(2)	9.3	9.1	9.3
Miami	955.9	970.2	974.2	.3	.3	.3	33.4	33.8	33.7
Orlando	778.7	812.8	818.9	(2)	(2)	(2)	41.3	44.7	44.9
Pensacola	147.5	151.3	151.7	(2)	(2)	(2)	10.3	10.8	10.9
Sarasota-Bradenton	242.8	260.8	263.4	(2)	(2)	(2)	12.0	12.7	12.7
Tallahassee	147.1	147.9	149.3	(2)	(2)	(2)	6.0	5.7	5.7
Tampa-St. Petersburg-Clearwater	1,050.3	1,088.5	1,099.4	.4	.4	.4	49.2	53.0	53.7
West Palm Beach-Boca Raton	435.1	452.2	456.7	(2)	(2)	(2)	23.8	25.4	25.2

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
Alabama	378.9	379.6	378.9	90.0	90.8	90.9	416.6	425.3	423.9
Birmingham	51.8	50.5	50.8	30.0	30.1	30.0	109.7	112.9	112.3
Huntsville	38.6	40.3	40.3	3.7	3.6	3.6	34.0	34.5	34.3
Mobile	27.2	27.9	27.9	13.2	13.3	13.4	55.6	57.3	57.0
Montgomery	17.7	17.7	17.6	6.3	6.3	6.3	36.5	36.3	36.3
Tuscaloosa	11.0	12.0	12.2	2.3	2.5	2.4	18.1	17.9	17.8
Alaska	14.9	11.3	15.5	21.8	22.5	22.9	50.8	52.5	52.2
Anchorage	1.9	1.9	1.9	11.4	12.0	12.0	29.0	29.8	29.6
Arizona	202.9	213.8	214.4	93.3	96.1	96.3	478.1	495.7	497.1
Phoenix-Mesa	157.2	167.1	167.8	68.0	71.8	72.0	335.6	352.1	353.2
Tucson	28.1	28.5	28.6	13.2	12.9	13.1	68.5	69.6	70.2
Arkansas	250.9	253.9	254.5	63.8	66.4	66.5	243.7	247.0	246.1
Fayetteville-Springdale-Rogers	33.9	33.4	33.7	9.2	9.3	9.3	37.0	38.3	38.0
Fort Smith	27.2	27.0	27.1	6.4	6.7	6.7	19.4	19.6	19.4
Little Rock-North Little Rock	33.2	33.3	33.4	20.5	21.0	21.2	68.5	69.3	68.8
Pine Bluff	8.1	8.1	8.1	1.7	1.8	1.8	7.1	7.0	7.0
California	1,867.1	1,922.1	1,931.5	644.2	666.8	668.5	2,971.6	3,069.5	3,068.8
Bakersfield	9.9	10.1	10.1	9.4	10.3	10.4	42.0	43.0	42.7
Fresno	29.2	28.8	28.9	13.4	14.1	14.1	65.4	66.7	66.3
Los Angeles-Long Beach	653.6	670.7	676.7	207.6	213.7	214.2	842.7	863.4	863.7
Modesto	23.9	24.9	24.8	5.2	5.5	5.5	32.3	34.1	33.7
Oakland	117.5	120.4	121.2	60.1	60.7	60.6	208.1	216.0	214.3
Orange County	216.6	227.0	228.6	43.4	46.0	46.2	300.9	314.7	315.0
Riverside-San Bernardino	102.5	107.8	108.9	41.3	44.1	44.3	213.9	222.7	223.1
Sacramento	43.4	46.8	47.0	23.9	25.0	25.0	132.4	136.4	136.1
Salinas	9.6	8.6	8.7	5.2	5.4	5.5	29.7	31.5	30.8
San Diego	119.8	123.6	124.0	40.0	41.3	41.4	235.1	242.2	241.9
San Francisco	75.7	76.8	76.5	77.8	79.5	79.7	201.3	206.7	205.3
San Jose	249.9	259.4	260.5	26.6	28.3	28.5	178.2	187.6	188.1
Santa Barbara-Santa Maria-Lompoc	16.7	17.0	17.0	5.0	5.7	5.6	35.5	35.8	35.5
Santa Rosa	24.1	25.8	26.0	5.8	6.4	6.5	40.1	42.1	41.4
Stockton-Lodi	21.7	21.9	22.0	11.2	10.5	10.4	38.3	39.8	39.6
Vallejo-Fairfield-Napa	16.6	17.8	18.0	5.6	6.0	6.0	37.7	39.0	39.3
Ventura	31.5	33.4	33.9	9.2	9.8	9.9	58.7	59.8	59.7
Colorado	199.5	207.2	207.6	121.8	122.2	122.5	468.9	487.7	487.6
Boulder-Longmont	30.7	32.6	32.7	3.5	3.8	4.0	33.4	34.3	33.9
Colorado Springs	25.5	27.3	27.4	11.7	11.8	12.0	46.9	48.3	47.8
Denver	91.5	94.2	93.8	84.7	85.0	85.1	249.6	258.7	258.7
Connecticut	273.8	276.8	276.7	73.5	75.1	75.3	341.4	356.1	351.4
Bridgeport	39.4	39.7	39.7	6.9	7.1	7.0	40.2	41.2	40.5
Danbury	18.6	18.9	18.7	2.5	2.4	2.4	21.2	22.0	21.2
Hartford	91.7	93.8	93.9	26.9	27.0	27.1	122.2	123.0	121.6
New Haven-Meriden	39.1	39.1	38.9	15.7	15.8	15.9	50.6	52.2	51.7
New London-Norwich	24.8	24.5	24.5	6.2	6.3	6.3	25.8	27.0	26.7
Stamford-Norwalk	28.3	27.2	27.2	9.8	10.0	10.0	43.7	45.9	45.0
Waterbury	18.5	19.3	19.2	3.6	3.6	3.5	16.8	19.0	18.5
Delaware	56.3	56.3	57.0	15.4	15.4	15.6	81.2	83.7	83.3
Dover	6.0	6.0	6.0	1.6	1.9	1.9	12.6	12.6	12.6
Wilmington-Newark	42.0	42.8	43.2	13.3	13.7	13.9	59.6	61.3	61.1
District of Columbia	12.8	12.6	12.6	17.5	17.3	17.0	48.1	47.5	47.3
Washington PMSA	97.2	100.1	100.2	110.5	110.8	110.3	461.2	467.4	464.3
Florida	490.2	492.2	493.0	322.7	333.6	335.4	1,639.1	1,679.0	1,690.5
Daytona Beach	14.0	14.6	14.6	4.1	4.4	4.5	42.7	42.6	43.8
Fort Lauderdale	40.5	40.4	40.6	32.2	31.5	31.6	176.8	181.4	181.8
Fort Myers-Cape Coral	6.8	6.8	6.7	6.9	7.2	7.2	44.1	44.5	44.7
Gainesville	5.5	5.3	5.5	2.3	2.6	2.6	23.0	23.9	24.1
Jacksonville	36.3	38.2	38.3	35.8	37.1	37.2	123.9	129.9	129.8
Lakeland-Winter Haven	21.1	20.9	20.8	8.6	9.0	9.1	48.0	49.4	50.1
Melbourne-Titusville-Palm Bay	26.7	28.0	28.1	5.0	5.3	5.5	41.0	41.8	42.3
Miami	76.2	73.6	73.3	82.4	83.7	84.3	251.2	257.0	258.4
Orlando	52.2	53.4	53.4	40.0	41.5	41.7	194.7	203.1	202.8
Pensacola	11.5	10.9	10.7	7.1	7.4	7.4	37.5	38.3	38.5
Sarasota-Bradenton	20.5	21.0	21.3	5.2	5.3	5.3	59.2	61.5	62.0
Tallahassee	5.2	5.0	5.2	3.9	4.2	4.2	29.4	29.9	30.0
Tampa-St. Petersburg-Clearwater	87.2	87.0	87.4	45.6	48.4	48.9	257.7	260.2	262.2
West Palm Beach-Boca Raton	30.9	31.0	31.3	16.0	16.5	16.6	114.2	117.5	118.8

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	Finance, insurance, and real estate			Services			Government		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Alabama	82.7	84.7	85.0	416.2	429.4	432.4	348.5	347.9	349.9
Birmingham	33.5	34.8	34.6	132.2	137.7	138.2	69.7	68.2	68.3
Huntsville	4.6	4.7	4.8	44.3	45.7	46.5	38.7	39.1	39.4
Mobile	9.7	10.0	10.1	58.2	60.0	60.7	34.5	34.4	34.9
Montgomery	9.2	9.3	9.2	40.1	41.3	41.7	36.8	36.7	36.6
Tuscaloosa	2.4	2.5	2.6	13.4	13.3	13.6	22.0	22.8	23.5
Alaska	11.5	11.8	11.8	61.4	62.8	63.8	74.3	72.8	74.2
Anchorage	6.9	7.1	7.1	33.8	34.5	35.0	28.1	28.2	28.6
Arizona	122.8	130.6	131.8	587.5	611.7	623.8	330.0	325.2	341.1
Phoenix-Mesa	103.3	111.3	112.4	424.5	445.6	455.2	176.7	172.9	182.3
Tucson	11.6	12.2	12.3	98.3	99.8	101.1	71.6	71.1	74.4
Arkansas	43.2	44.0	44.1	245.8	251.3	255.5	185.1	184.0	187.9
Fayetteville-Springdale-Rogers	4.8	4.8	4.8	26.0	26.5	26.7	19.2	18.5	19.9
Fort Smith	3.1	3.0	3.0	23.0	24.1	24.6	9.9	9.6	9.9
Little Rock-North Little Rock	17.1	17.3	17.3	84.8	86.4	89.2	59.2	59.3	60.0
Pine Bluff	1.3	1.3	1.3	8.3	8.4	8.4	8.0	7.7	7.8
California	742.0	761.8	766.8	3,934.4	4,088.4	4,142.7	2,153.4	2,155.7	2,181.6
Bakersfield	6.5	7.0	7.1	41.8	42.3	43.2	48.5	49.5	49.6
Fresno	13.6	13.5	13.5	67.4	69.3	70.4	65.6	65.1	65.8
Los Angeles-Long Beach	217.4	220.6	222.3	1,246.6	1,269.7	1,289.4	540.4	539.7	544.8
Modesto	4.3	4.4	4.4	31.1	32.0	32.2	23.3	24.6	24.5
Oakland	52.8	55.3	55.4	269.2	283.6	286.9	171.4	169.5	171.7
Orange County	89.6	93.0	93.4	359.7	371.9	374.6	133.9	134.6	137.1
Riverside-San Bernardino	29.8	30.8	31.0	218.8	228.5	231.0	173.0	173.0	174.2
Sacramento	39.9	42.5	42.6	170.9	174.6	176.3	169.4	169.2	170.4
Salinas	5.9	5.6	5.7	31.9	32.9	33.0	27.7	28.5	28.6
San Diego	59.5	61.8	62.3	329.4	342.4	347.0	193.9	194.7	196.7
San Francisco	100.4	102.9	103.2	349.5	365.8	367.4	124.2	121.1	121.3
San Jose	30.0	30.8	31.0	292.1	306.4	311.6	88.7	88.5	89.3
Santa Barbara-Santa Maria-Lompoc	7.1	7.4	7.4	45.5	46.5	47.1	31.0	31.0	31.2
Santa Rosa	9.2	9.5	9.5	45.8	47.8	48.1	26.3	25.3	26.2
Stockton-Lodi	8.4	8.6	8.7	40.1	41.6	42.0	34.8	35.0	35.2
Vallejo-Fairfield-Napa	5.9	6.2	6.2	38.1	40.0	40.6	30.9	31.3	31.7
Ventura	12.1	13.7	13.9	70.3	73.5	73.5	44.1	43.4	43.3
Colorado	123.8	130.4	130.5	580.5	605.8	608.3	316.7	313.8	321.8
Boulder-Longmont	5.3	5.4	5.5	47.7	51.3	52.0	26.2	25.5	27.0
Colorado Springs	11.3	11.6	11.7	68.9	67.5	67.5	34.7	34.5	35.0
Denver	81.1	85.5	85.6	312.0	323.7	324.2	144.7	144.8	146.9
Connecticut	128.8	133.0	133.0	482.5	495.5	499.9	230.6	222.8	230.5
Bridgeport	10.2	10.4	10.4	56.7	57.0	57.6	20.7	21.1	21.2
Danbury	4.3	4.7	4.7	23.4	24.7	24.6	9.9	9.9	10.3
Hartford	67.8	68.6	67.6	167.3	168.8	170.2	94.1	91.1	96.5
New Haven-Meriden	13.0	12.7	12.9	87.5	87.3	88.6	31.5	30.5	31.1
New London-Norwich	3.5	3.7	3.7	32.7	33.7	33.9	34.9	36.1	36.3
Stamford-Norwalk	22.6	25.4	25.8	67.9	71.2	71.4	17.3	17.8	18.0
Waterbury	4.2	4.3	4.2	25.5	25.9	26.0	12.5	12.3	12.2
Delaware	45.0	48.0	48.4	102.2	107.8	108.9	53.1	53.1	53.6
Dover	2.1	2.5	2.5	11.3	12.2	12.3	14.6	15.4	15.2
Wilmington-Newark	39.2	41.9	42.4	84.3	89.0	89.8	38.2	38.2	38.8
District of Columbia	28.1	28.7	28.3	263.7	259.6	265.7	233.8	227.5	226.4
Washington PMSA	132.8	133.2	133.1	921.1	950.9	960.9	587.6	585.5	588.7
Florida	400.7	417.7	419.8	2,209.2	2,323.5	2,356.7	954.8	964.7	970.0
Daytona Beach	6.4	6.5	6.6	52.5	52.5	54.1	23.1	23.9	24.0
Fort Lauderdale	43.5	45.6	45.9	210.1	221.8	224.4	84.0	85.2	85.5
Fort Myers-Cape Coral	8.7	9.2	9.2	47.9	48.0	48.7	25.1	25.2	25.6
Gainesville	5.0	5.2	5.2	31.5	32.9	33.3	38.8	39.8	39.0
Jacksonville	52.0	53.0	52.9	162.2	172.5	173.8	67.6	68.6	68.8
Lakeland-Winter Haven	7.8	7.9	7.9	45.8	47.6	48.0	25.4	25.8	25.9
Melbourne-Titusville-Palm Bay	6.0	6.0	5.9	61.9	64.1	64.3	24.6	25.2	25.3
Miami	67.1	68.0	68.3	308.6	316.1	319.3	136.7	137.7	136.6
Orlando	45.1	47.5	47.7	320.4	336.4	341.2	84.6	85.8	86.8
Pensacola	5.9	6.1	6.2	45.9	48.6	48.7	29.0	28.9	29.1
Sarasota-Bradenton	11.3	11.6	11.7	111.1	125.4	127.0	23.4	23.2	23.3
Tallahassee	5.5	5.7	5.8	38.0	38.5	39.0	58.9	58.7	59.2
Tampa-St. Petersburg-Clearwater	74.2	78.0	78.6	401.8	427.9	433.0	134.2	133.6	135.2
West Palm Beach-Boca Raton	29.5	31.1	31.3	165.9	176.1	178.0	54.8	54.6	55.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Georgia	3,539.1	3,655.5	3,673.7	7.7	8.1	8.2	159.9	171.4	173.3
Albany	58.7	59.4	59.2	(2)	(2)	(2)	3.4	3.6	3.6
Athens	70.9	72.9	73.5	(1)	(1)	(1)	2.4	2.5	2.5
Atlanta	1,914.5	1,985.9	1,999.0	1.6	1.7	1.7	89.0	96.7	97.3
Augusta-Aiken	190.8	193.6	193.5	.4	.4	.4	11.2	10.8	11.1
Columbus	113.5	115.9	116.1	(1)	(1)	(1)	5.2	5.3	5.4
Macon	146.0	150.2	150.6	1.1	1.3	1.3	6.2	6.5	6.5
Savannah	129.3	133.1	133.0	(1)	(1)	(1)	7.0	7.6	7.4
Hawaii	533.5	527.3	530.8	(1)	(1)	(1)	22.3	21.8	21.6
Honolulu	404.7	399.1	402.1	(1)	(1)	(1)	17.3	16.9	16.6
Idaho	490.4	503.2	504.1	2.9	2.9	3.0	27.0	29.1	29.1
Boise City	186.7	195.5	195.6	(1)	(1)	(1)	12.3	12.6	12.2
Illinois	5,624.8	5,728.9	5,749.1	11.4	11.0	10.9	193.8	209.8	209.3
Bloomington-Normal	78.1	79.7	80.7	(1)	(1)	(1)	2.1	2.3	2.3
Champaign-Urbana	96.7	93.3	97.9	(1)	(1)	(1)	2.7	2.9	2.9
Chicago	3,932.0	4,001.5	4,012.9	1.4	1.4	1.4	135.5	142.8	142.5
Davenport-Moline-Rock Island	172.4	178.8	178.4	(1)	(1)	(1)	7.7	8.5	8.5
Decatur	55.5	56.1	56.2	(1)	(1)	(1)	2.9	3.3	3.3
Kankakee	41.9	43.0	42.8	(1)	(1)	(1)	1.7	1.7	1.6
Peoria-Pekin	164.6	169.7	170.0	(1)	(1)	(1)	6.3	7.0	6.9
Rockford	173.3	175.6	176.3	(1)	(1)	(1)	5.6	5.8	5.7
Springfield	109.4	111.9	111.8	(1)	(1)	(1)	4.2	4.4	4.3
Indiana	2,802.2	2,829.7	2,849.4	6.2	6.4	6.3	123.6	127.5	127.3
Bloomington	64.4	64.8	65.5	(1)	(1)	(1)	2.5	3.0	3.0
Elkhart-Goshen	114.3	114.2	115.5	(1)	(1)	(1)	3.8	4.6	4.5
Evansville-Henderson	150.1	151.9	152.6	1.3	1.3	1.3	8.4	8.8	8.7
Fort Wayne	262.3	266.9	268.1	(1)	(1)	(1)	11.2	11.9	12.0
Gary	259.2	261.1	261.2	(1)	(1)	(1)	15.9	15.9	15.9
Indianapolis	809.1	830.1	836.3	.7	.7	.8	40.2	45.8	45.9
Kokomo	51.2	51.6	51.8	(1)	(1)	(1)	1.8	2.1	2.1
Lafayette	92.2	92.2	94.3	(1)	(1)	(1)	3.3	3.6	3.6
Muncie	59.7	58.7	59.8	(1)	(1)	(1)	2.1	2.1	2.2
South Bend	130.7	132.8	133.2	(1)	(1)	(1)	6.7	7.1	7.0
Terre Haute	67.6	67.9	67.9	.3	.3	.3	2.6	2.6	2.6
Iowa	1,363.9	1,398.1	1,399.8	1.7	1.7	1.7	47.1	50.5	49.6
Cedar Rapids	108.8	114.4	114.2	(1)	(1)	(1)	4.5	6.2	5.8
Des Moines	263.4	267.5	267.4	(1)	(1)	(1)	10.1	10.2	9.8
Dubuque	49.7	51.0	51.6	(1)	(1)	(1)	1.3	1.6	1.6
Iowa City	63.5	66.1	66.7	(1)	(1)	(1)	1.9	1.9	2.0
Sioux City	63.2	64.6	64.8	(1)	(1)	(1)	2.8	3.2	3.2
Waterloo-Cedar Falls	69.9	71.6	72.1	(1)	(1)	(1)	2.1	2.5	2.5
Kansas	1,233.4	1,273.1	1,283.5	8.1	8.2	8.3	51.4	53.8	55.2
Lawrence	45.1	46.7	47.8	(1)	(1)	(1)	1.7	2.0	1.9
Topeka	98.5	97.6	98.2	(1)	(1)	(1)	3.9	3.9	4.0
Wichita	266.4	277.5	279.2	1.4	1.5	1.5	12.7	13.0	13.2
Kentucky	1,668.7	1,704.1	1,711.6	22.9	22.4	22.5	73.3	77.0	76.5
Lexington	262.3	270.1	272.7	.2	.3	.2	12.1	12.7	12.6
Louisville	534.5	552.4	552.1	.5	.5	.5	26.4	28.6	27.7
Owensboro	42.1	43.1	43.5	.3	.3	.3	3.0	3.4	3.3
Louisiana	1,811.2	1,853.8	1,865.0	50.9	55.6	55.8	112.0	114.9	116.2
Alexandria	52.6	53.7	54.0	.1	.1	.1	3.0	3.1	3.2
Baton Rouge	277.7	282.7	286.5	.8	1.0	1.0	30.4	31.8	32.3
Houma	70.7	74.8	75.7	6.6	7.6	7.7	3.1	3.7	3.8
Lafayette	155.5	161.0	162.5	13.9	15.6	15.7	8.1	9.5	9.6
Lake Charles	84.8	84.7	85.7	1.4	1.4	1.4	10.6	9.8	10.0
Monroe	67.0	68.4	68.8	.2	.2	.2	3.2	3.4	3.4
New Orleans	604.2	615.8	616.9	15.2	14.8	15.1	28.8	31.0	31.2
Shreveport-Bossier City	167.0	172.0	172.6	2.5	2.4	2.4	9.2	9.7	9.8
Maine	528.9	538.7	543.0	.1	.1	.1	19.9	21.2	20.4
Lewiston-Auburn	39.9	41.2	40.8	(2)	(2)	(2)	1.5	1.6	1.5
Portland	136.1	139.9	138.8	(2)	(2)	(2)	5.7	6.7	6.3

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		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Georgia	585.8	588.6	587.7	224.3	234.6	235.5	887.7	921.7	918.9
Albany	9.0	8.9	8.7	2.9	3.1	3.1	13.6	14.0	14.1
Athens	11.5	11.5	11.5	1.8	1.8	1.8	17.9	17.9	18.1
Atlanta	217.1	220.4	220.5	160.3	167.4	168.3	507.2	525.8	524.4
Augusta-Aiken	41.1	42.0	41.7	6.3	6.7	6.7	41.1	41.9	41.9
Columbus	21.8	21.6	21.8	4.0	4.2	4.2	25.3	26.2	26.0
Macon	20.1	20.4	20.4	5.3	5.3	5.3	33.8	34.2	34.1
Savannah	17.2	18.2	18.3	9.4	9.6	9.4	32.2	33.8	33.4
Hawaii	16.6	16.3	16.3	41.4	41.1	41.2	134.5	133.7	133.5
Honolulu	12.7	12.5	12.6	33.5	33.1	33.3	99.9	99.2	98.7
Idaho	72.9	76.0	76.2	23.4	24.5	24.2	124.1	127.1	126.3
Boise City	33.8	36.2	36.2	9.2	9.8	9.8	45.2	46.4	47.1
Illinois	965.3	976.0	976.8	333.6	339.7	339.1	1,288.5	1,324.4	1,309.7
Bloomington-Normal	8.7	8.9	8.8	2.9	2.8	2.8	16.9	16.9	16.9
Champaign-Urbana	11.7	11.8	11.7	2.5	2.7	2.6	21.4	21.2	21.4
Chicago	651.9	658.6	659.0	245.3	250.7	250.3	894.5	919.6	908.7
Davenport-Moline-Rock Island	29.6	31.2	31.1	9.1	9.5	9.5	45.8	46.7	46.1
Decatur	13.4	13.5	13.5	5.0	4.9	4.9	12.2	12.3	12.1
Kankakee	8.1	8.3	8.3	2.0	2.1	2.0	10.5	11.0	10.8
Peoria-Pekin	31.7	32.5	32.4	9.2	9.6	9.6	39.9	41.4	41.2
Rockford	52.8	53.2	53.2	9.1	9.2	9.1	36.6	37.3	37.1
Springfield	4.3	4.6	4.6	4.8	4.8	4.8	23.2	24.0	23.6
Indiana	673.1	675.0	677.5	138.2	139.4	139.5	662.8	668.4	666.1
Bloomington	9.7	10.4	10.3	1.8	1.7	1.8	14.5	15.2	15.3
Elkhart-Goshen	57.0	57.7	58.6	3.0	2.7	2.7	21.7	21.5	21.6
Evansville-Henderson	32.1	31.6	31.6	7.1	6.9	7.0	37.3	38.2	38.3
Fort Wayne	74.6	75.3	75.8	12.4	12.6	12.6	62.3	64.0	63.6
Gary	50.3	49.6	49.5	15.8	15.3	15.0	61.3	62.8	62.1
Indianapolis	127.2	128.1	128.6	49.6	51.1	51.4	210.3	215.3	215.0
Kokomo	21.3	20.7	20.8	1.2	1.2	1.2	10.8	11.0	10.8
Lafayette	22.3	21.9	22.0	2.2	2.2	2.2	18.9	18.8	18.9
Muncie	11.2	10.3	10.3	3.1	3.3	3.4	13.4	13.5	13.4
South Bend	21.9	22.4	22.2	5.6	5.5	5.6	33.7	33.4	33.2
Terre Haute	11.7	11.9	12.0	3.1	2.7	2.8	19.1	19.1	18.8
Iowa	248.1	255.6	255.3	63.6	66.3	66.4	332.3	340.5	336.4
Cedar Rapids	21.0	22.1	22.2	7.8	7.8	7.8	24.3	25.8	25.7
Des Moines	24.4	25.0	25.0	13.3	13.3	13.3	69.2	70.1	69.2
Dubuque	11.8	11.8	11.7	2.1	2.0	2.1	11.8	12.2	12.0
Iowa City	4.8	4.9	4.9	2.2	2.2	2.2	12.4	12.9	12.9
Sioux City	12.6	13.1	13.1	3.9	3.7	3.7	15.4	15.6	15.4
Waterloo-Cedar Falls	14.5	14.8	15.0	2.3	2.3	2.3	16.2	16.4	16.3
Kansas	201.5	209.0	209.5	70.8	72.5	72.5	299.5	312.1	312.0
Lawrence	5.3	5.3	5.4	1.2	1.3	1.3	11.5	11.7	11.7
Topeka	9.9	9.7	9.8	6.3	6.1	6.1	21.3	21.0	21.1
Wichita	66.4	72.6	72.8	10.5	10.8	10.9	60.5	61.6	61.5
Kentucky	310.9	317.2	317.3	95.2	98.9	98.4	397.2	407.9	406.3
Lexington	44.6	48.0	48.1	10.5	10.8	10.8	58.8	61.5	61.0
Louisville	87.3	89.4	89.4	39.6	42.2	41.7	131.3	135.8	135.2
Owensboro	7.0	7.0	7.1	2.2	2.2	2.3	10.6	11.0	10.9
Louisiana	186.3	188.6	188.2	108.0	111.3	111.9	419.8	430.6	431.0
Alexandria	3.4	3.6	3.5	2.6	2.6	2.6	11.9	12.3	12.3
Baton Rouge	24.2	24.8	24.8	12.2	12.4	12.5	63.8	67.0	66.8
Houma	6.4	7.3	7.3	7.6	7.9	7.8	16.7	17.1	17.2
Lafayette	16.1	14.4	14.5	9.4	10.1	10.1	39.8	41.5	41.9
Lake Charles	11.7	11.7	11.8	4.1	4.2	4.4	17.6	18.0	18.0
Monroe	7.9	8.0	8.1	3.7	3.7	3.7	16.6	17.0	17.0
New Orleans	47.4	48.9	48.7	41.8	42.4	42.5	149.0	149.4	149.1
Shreveport-Bossier City	19.5	19.3	19.3	8.1	8.4	8.5	38.0	39.6	39.6
Maine	85.9	87.1	87.1	22.5	22.9	23.2	127.3	133.5	130.3
Lewiston-Auburn	7.6	7.7	7.8	1.6	1.6	1.6	9.8	10.5	10.1
Portland	15.1	15.2	15.0	6.3	6.4	6.3	37.6	41.3	40.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Georgia	182.6	191.1	191.2	914.5	954.8	970.0	576.6	585.2	588.9
Albany	2.2	2.1	2.1	14.8	15.1	15.0	12.8	12.6	12.6
Athens	2.2	2.2	2.2	14.7	15.0	15.1	20.4	22.0	22.3
Atlanta	124.1	130.6	131.0	559.8	587.0	597.1	255.4	256.3	258.7
Augusta-Aiken	6.0	6.1	6.1	44.9	45.9	45.9	39.8	39.8	39.7
Columbus	7.9	8.1	8.2	28.7	29.9	30.0	20.6	20.6	20.5
Macon	8.2	8.9	8.9	38.2	40.4	40.8	33.1	33.2	33.3
Savannah	4.4	4.4	4.4	38.0	38.7	39.2	21.1	20.8	20.9
Hawaii	36.3	35.4	35.3	168.8	167.9	169.3	113.6	111.1	113.6
Honolulu	29.2	28.3	28.2	120.4	119.9	121.1	91.7	89.2	91.6
Idaho	24.8	25.6	25.8	116.1	118.6	118.5	99.2	99.4	101.0
Boise City	10.7	11.4	11.5	45.9	48.7	48.4	29.6	30.4	30.4
Illinois	390.9	403.8	404.4	1,627.4	1,675.7	1,684.8	813.9	788.5	814.1
Bloomington-Normal	13.6	14.4	14.5	18.9	19.9	20.1	15.0	14.5	15.3
Champaign-Urbana	3.5	3.7	3.7	20.5	21.0	21.3	34.4	30.0	34.3
Chicago	305.6	313.8	314.6	1,208.1	1,239.7	1,248.9	489.7	474.9	487.5
Davenport-Moline-Rock Island	7.9	8.3	8.2	45.6	47.2	47.4	26.7	27.4	27.6
Decatur	2.0	2.0	2.0	13.4	13.5	13.6	6.6	6.6	6.8
Kankakee	1.7	1.7	1.7	11.1	11.2	11.2	6.8	7.0	7.2
Peoria-Pekin	7.7	7.9	7.9	51.1	52.6	52.9	18.7	18.7	19.1
Rockford	7.4	7.6	7.5	44.5	45.5	46.2	17.3	17.0	17.5
Springfield	7.7	7.9	7.8	31.4	32.6	32.9	33.8	33.6	33.8
Indiana	135.3	138.8	139.1	661.4	683.0	690.6	401.6	391.2	403.0
Bloomington	2.4	2.0	2.1	12.4	12.3	12.4	21.1	20.2	20.6
Elkhart-Goshen	2.9	3.2	3.2	18.4	17.7	17.8	7.5	6.8	7.1
Evansville-Henderson	7.2	7.4	7.4	41.6	43.0	43.5	15.1	14.7	14.8
Fort Wayne	14.6	14.6	14.6	60.2	60.8	61.3	27.0	27.7	28.2
Gary	9.2	9.4	9.4	69.8	71.3	71.9	36.9	36.8	37.4
Indianapolis	59.9	64.2	64.3	215.9	222.7	224.9	105.3	102.2	105.4
Kokomo	1.5	1.5	1.5	7.7	8.4	8.5	6.9	6.7	6.9
Lafayette	3.7	3.9	4.0	16.8	18.9	19.1	25.0	22.9	24.5
Muncie	1.7	1.8	1.8	15.4	16.3	16.6	12.8	11.4	12.1
South Bend	6.5	6.3	6.4	42.8	44.2	44.6	13.5	13.9	14.2
Terre Haute	2.3	2.3	2.2	16.5	16.9	17.0	12.0	12.1	12.2
Iowa	77.4	80.6	80.4	358.0	366.3	370.3	235.7	236.6	239.7
Cedar Rapids	5.6	6.3	6.2	34.4	35.2	35.2	11.2	11.0	11.3
Des Moines	36.4	38.0	38.1	74.7	77.3	77.7	35.3	33.6	34.3
Dubuque	1.6	1.8	1.8	17.3	17.8	18.6	3.8	3.8	3.8
Iowa City	1.8	1.9	2.0	13.3	13.9	14.1	27.1	28.4	28.6
Sioux City	2.5	2.6	2.6	18.5	18.8	19.1	7.5	7.6	7.7
Waterloo-Cedar Falls	3.3	3.3	3.2	18.6	19.5	19.7	12.9	12.8	13.1
Kansas	60.0	60.5	60.5	303.3	320.2	323.4	238.8	236.8	242.1
Lawrence	1.9	2.0	2.0	10.4	11.3	11.7	13.1	13.1	13.8
Topeka	6.8	6.8	6.9	27.4	27.9	28.1	22.9	22.2	22.2
Wichita	10.7	11.0	11.0	70.7	73.5	74.3	33.5	33.5	34.0
Kentucky	67.3	69.9	70.1	407.4	421.2	425.6	294.5	289.6	294.9
Lexington	9.8	10.3	10.2	69.6	71.7	72.8	56.7	54.8	57.0
Louisville	28.5	28.8	28.9	152.3	157.3	158.9	68.6	69.8	69.8
Owensboro	1.7	1.7	1.8	10.2	10.4	10.4	7.1	7.1	7.4
Louisiana	84.1	86.2	86.3	486.3	504.9	507.1	363.8	361.7	368.5
Alexandria	2.3	2.2	2.2	16.1	16.8	16.8	13.2	13.0	13.3
Baton Rouge	16.9	17.7	17.7	70.8	73.0	73.3	58.6	55.0	58.1
Houma	2.2	2.3	2.3	15.1	15.8	16.0	13.0	13.1	13.6
Lafayette	5.9	6.3	6.3	39.2	40.5	40.7	23.1	23.1	23.7
Lake Charles	2.6	2.6	2.6	23.6	24.2	24.4	13.2	12.8	13.1
Monroe	4.7	5.0	5.1	17.7	18.4	18.4	13.0	12.7	12.9
New Orleans	31.4	31.4	31.4	186.6	190.6	191.5	104.0	107.3	107.4
Shreveport-Bossier City	6.6	6.6	6.6	50.5	53.3	53.4	32.6	32.7	33.0
Maine	27.7	29.0	29.5	149.9	153.8	156.4	95.6	91.1	96.0
Lewiston-Auburn	2.1	2.2	2.2	12.4	12.8	12.7	4.9	4.8	4.9
Portland	12.2	12.5	12.6	40.9	40.3	40.3	18.3	17.5	18.3

See footnotes at end of table

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
Maryland	2,198.5	2,231.3	2,240.7	1.2	1.2	1.2	128.4	132.0	130.7
Baltimore PMSA	1,136.4	1,154.0	1,160.1	.2	.2	.2	60.4	62.6	61.5
Baltimore City	396.9	399.8	402.4	(1)	(1)	(1)	11.8	12.5	12.2
Suburban Maryland-D.C.	809.0	827.7	831.6	(1)	(1)	(1)	55.4	58.0	57.6
Massachusetts	3,033.8	3,123.6	3,137.5	1.1	1.3	1.2	85.8	95.5	93.6
Barnstable-Yarmouth	49.4	52.4	52.0	(1)	(1)	(1)	2.3	2.5	2.5
Boston	1,867.5	1,917.5	1,921.8	.3	.4	.4	48.5	54.4	53.7
Brockton	92.6	95.1	95.9	(2)	(2)	(2)	2.9	3.1	3.1
Fitchburg-Leominster	50.3	52.9	52.7	(2)	(2)	(2)	1.4	1.6	1.5
Lawrence	145.0	149.3	149.6	(2)	(2)	(2)	4.9	5.1	4.7
Lowell	111.6	118.6	118.5	(1)	(1)	(1)	4.3	4.3	4.3
New Bedford	61.6	64.0	63.9	(2)	(2)	(2)	1.9	1.9	1.9
Pittsfield	40.0	41.7	41.4	.1	.1	.1	1.1	1.4	1.3
Springfield	246.3	250.8	253.7	.1	.1	.1	6.1	6.6	6.4
Worcester	217.7	223.9	223.6	.2	.2	.2	6.0	6.4	6.1
Michigan	4,355.1	4,433.6	4,463.8	7.1	7.1	7.1	151.4	166.3	164.2
Ann Arbor	263.4	267.3	271.0	(1)	(1)	(1)	8.6	9.3	9.1
Benton Harbor	69.3	69.9	70.1	(1)	(1)	(1)	2.0	2.2	2.1
Detroit	2,046.1	2,085.9	2,099.0	.7	.8	.8	66.9	74.2	74.0
Flint	178.6	179.6	180.5	(1)	(1)	(1)	6.1	6.9	6.7
Grand Rapids-Muskegon-Holland	537.1	554.5	556.4	(1)	(1)	(1)	21.6	22.5	22.5
Jackson	59.4	60.0	60.3	(1)	(1)	(1)	1.9	2.0	2.0
Kalamazoo-Battle Creek	206.1	207.3	208.9	(1)	(1)	(1)	7.0	7.6	7.4
Lansing-East Lansing	231.4	228.9	232.7	(1)	(1)	(1)	7.5	7.9	8.0
Saginaw-Bay City-Midland	173.6	177.9	177.5	(1)	(1)	(1)	8.1	8.4	8.2
Minnesota	2,415.2	2,469.1	2,477.5	7.1	7.1	7.0	73.9	81.1	79.9
Duluth-Superior	107.1	109.0	109.4	4.9	4.9	4.9	3.0	3.4	3.3
Minneapolis-St. Paul	1,572.0	1,607.4	1,612.3	(2)	(2)	(2)	48.1	52.9	52.3
Rochester	70.8	73.5	73.6	(1)	(1)	(1)	2.3	2.6	2.6
St. Cloud	82.7	84.4	85.2	(1)	(1)	(1)	3.0	3.3	3.2
Mississippi	1,085.8	1,107.0	1,110.3	5.5	5.9	6.0	46.3	49.8	50.2
Jackson	217.0	221.7	222.9	(2)	(2)	(2)	10.8	11.3	11.3
Missouri	2,572.2	2,600.4	2,629.2	4.5	4.6	4.7	109.7	113.3	116.6
Kansas City	892.5	927.8	933.9	(1)	(1)	(1)	40.6	43.8	44.8
St. Louis	1,265.4	1,275.6	1,284.7	(1)	(1)	(1)	60.0	61.9	63.9
Springfield	155.7	159.3	161.3	(1)	(1)	(1)	6.3	6.1	6.3
Montana	352.0	358.8	361.2	5.0	4.9	4.9	13.4	15.6	15.5
Nebraska	831.6	860.3	866.5	1.0	1.1	1.2	32.0	37.9	38.0
Lincoln	142.3	143.3	144.9	(1)	(1)	(1)	5.4	6.2	6.4
Omaha	386.4	402.3	405.2	(1)	(1)	(1)	15.7	18.4	18.5
Nevada	867.8	897.4	904.2	14.7	13.9	13.6	77.1	81.8	82.4
Las Vegas	618.3	641.6	646.2	2.2	2.1	2.1	61.6	65.4	65.7
Reno	171.9	175.2	177.2	.6	.6	.6	11.0	11.3	11.5
New Hampshire	551.3	564.5	565.0	.4	.3	.4	17.8	20.2	19.5
Manchester	94.3	96.7	96.7	(1)	(1)	(1)	3.7	4.4	4.2
Nashua	88.4	91.6	92.2	(1)	(1)	(1)	2.5	2.9	2.8
Portsmouth-Rochester	110.5	110.7	112.0	(1)	(1)	(1)	2.9	2.9	2.9
New Jersey	3,622.4	3,701.5	3,714.2	1.7	1.7	1.6	114.7	122.2	120.4
Atlantic-Cape May	166.7	169.6	171.2	(1)	(1)	(1)	6.3	6.5	6.5
Bergen-Passaic	621.6	637.6	633.9	(1)	(1)	(1)	19.4	20.5	19.5
Camden	459.0	468.4	470.2	(1)	(1)	(1)	19.0	20.2	20.3
Jersey City	236.4	236.6	237.6	(1)	(1)	(1)	3.8	4.3	4.4
Middlesex-Somerset-Hunterdon	591.8	615.2	616.2	.5	.4	.4	16.6	17.4	17.3
Monmouth-Ocean	344.6	349.2	351.1	(1)	(1)	(1)	15.4	16.0	16.2
Newark	929.6	948.1	948.6	.6	.7	.7	27.5	29.4	28.8
Trenton	194.0	195.9	196.5	(1)	(1)	(1)	3.9	4.4	4.4
Vineland-Millville-Bridgeton	56.3	58.1	58.9	.3	.3	.3	1.7	1.8	1.6
New Mexico	694.6	700.7	708.5	15.4	15.4	15.3	40.2	39.5	39.9
Albuquerque	326.6	329.5	332.9	(1)	(1)	(1)	21.3	20.5	20.7
Las Cruces	50.3	51.4	51.5	(1)	(1)	(1)	3.1	2.9	3.0
Santa Fe	70.1	69.5	70.7	(1)	(1)	(1)	3.2	3.4	3.4

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		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Maryland	175.1	175.1	176.7	105.3	104.5	105.0	518.8	530.4	525.7
Baltimore PMSA	100.9	98.8	100.1	57.4	58.3	59.2	261.1	267.2	266.4
Baltimore City	32.3	29.8	31.4	19.5	20.2	20.4	62.8	62.4	59.5
Suburban Maryland-D.C.	37.8	38.9	38.8	33.6	33.5	33.4	194.5	194.4	193.6
Massachusetts	442.2	454.6	454.7	129.9	135.4	135.4	682.6	715.0	709.1
Barnstable-Yarmouth	1.9	2.1	2.1	2.7	2.8	2.8	15.6	17.1	16.7
Boston	219.2	225.6	225.6	80.8	83.3	83.5	402.8	417.2	413.5
Brockton	10.6	10.6	10.5	5.0	4.9	4.8	30.3	31.5	31.2
Fitchburg-Leominster	13.6	13.8	13.8	2.0	2.1	2.1	11.9	12.3	12.1
Lawrence	37.7	39.1	39.3	4.9	5.0	4.9	33.3	34.1	33.7
Lowell	28.1	29.8	29.9	6.5	7.1	6.9	23.5	25.1	25.4
New Bedford	13.4	13.8	13.9	2.9	3.5	3.5	15.6	16.0	15.7
Pittsfield	7.4	7.4	7.4	1.2	1.2	1.2	9.9	10.4	10.2
Springfield	38.8	39.2	39.1	9.8	10.2	10.1	56.9	57.5	57.5
Worcester	40.9	42.6	42.4	9.3	9.5	9.5	47.9	50.5	49.6
Michigan	966.0	973.5	974.8	169.6	172.1	172.3	1,008.5	1,036.7	1,031.7
Ann Arbor	52.5	53.2	53.7	6.3	6.4	6.4	52.0	54.1	53.5
Benton Harbor	19.8	20.0	19.9	2.9	2.9	2.9	15.0	15.3	15.2
Detroit	445.9	445.8	448.0	93.0	94.8	95.3	474.5	490.6	488.3
Flint	41.9	40.7	40.5	5.3	5.4	5.4	43.9	45.5	44.9
Grand Rapids-Muskegon-Holland	152.8	156.9	156.6	18.3	18.7	18.9	131.1	137.1	137.1
Jackson	12.9	13.0	13.0	3.4	3.4	3.4	15.1	15.5	15.4
Kalamazoo-Battle Creek	49.0	49.2	49.5	6.9	7.0	7.0	44.6	45.5	45.2
Lansing-East Lansing	29.9	28.9	28.9	6.1	6.1	6.0	50.1	51.8	51.5
Saginaw-Bay City-Midland	38.9	40.0	39.8	7.1	7.2	7.2	43.0	45.3	44.3
Minnesota	423.4	434.4	432.7	121.3	124.6	124.6	580.0	595.9	592.0
Duluth-Superior	8.3	8.4	8.5	6.5	6.9	6.7	26.3	27.5	27.2
Minneapolis-St. Paul	270.0	272.5	270.4	87.1	88.7	88.8	374.8	385.5	383.2
Rochester	10.9	12.5	12.6	2.1	2.1	2.2	14.1	14.5	14.3
St. Cloud	15.0	15.5	15.8	3.0	3.0	3.0	24.9	25.6	25.4
Mississippi	239.9	240.7	241.3	52.1	53.5	53.4	230.5	235.6	234.2
Jackson	20.5	20.8	20.4	15.2	15.9	15.8	52.2	53.8	53.5
Missouri	416.4	421.3	420.6	162.4	164.4	164.5	602.2	612.3	609.7
Kansas City	106.5	107.6	108.0	73.0	77.8	78.3	218.2	228.2	227.0
St. Louis	195.5	196.6	196.1	82.0	81.6	82.2	297.4	304.4	301.4
Springfield	23.5	23.9	23.7	10.3	10.2	10.3	43.6	44.2	43.9
Montana	23.3	24.2	24.1	20.7	21.2	21.2	94.4	95.8	95.6
Nebraska	114.7	117.5	118.1	51.2	54.5	54.5	203.5	212.6	211.7
Lincoln	16.8	17.7	17.6	9.0	9.5	9.6	30.4	30.1	29.9
Omaha	39.7	39.9	40.0	26.6	28.4	28.5	91.8	96.8	96.8
Nevada	39.5	41.6	41.8	43.3	46.4	46.5	173.5	182.0	182.1
Las Vegas	21.4	22.3	22.4	30.8	33.4	33.4	124.9	131.0	131.4
Reno	13.2	13.7	13.8	10.9	11.3	11.3	39.0	40.7	40.6
New Hampshire	105.6	108.7	108.6	19.1	19.5	19.3	140.9	147.3	145.1
Manchester	14.0	14.0	14.0	5.5	5.9	6.0	22.9	23.8	23.3
Nashua	27.4	27.9	28.0	2.1	2.4	2.3	21.5	22.8	22.5
Portsmouth-Rochester	19.1	20.1	20.1	3.8	4.0	4.0	28.4	29.0	28.9
New Jersey	475.4	479.4	479.4	254.0	259.2	260.6	842.3	867.4	862.8
Atlantic-Cape May	6.2	6.5	6.7	6.8	7.0	7.2	31.0	32.5	32.4
Bergen-Passaic	105.3	105.4	105.2	33.4	36.2	36.0	172.3	175.8	173.6
Camden	54.4	55.1	55.4	22.1	21.8	21.7	121.8	124.2	124.2
Jersey City	27.6	27.0	27.0	28.0	28.6	28.6	55.4	54.7	54.5
Middlesex-Somerset-Hunterdon	91.3	93.7	92.6	50.7	51.5	51.6	138.9	145.6	142.9
Monmouth-Ocean	20.8	20.2	20.4	20.3	20.5	20.5	92.8	95.8	95.1
Newark	133.4	136.0	135.9	79.3	81.2	80.4	184.1	189.3	188.9
Trenton	19.8	19.3	19.2	7.3	7.2	7.1	31.7	33.2	33.0
Vineland-Millville-Bridgeton	12.4	12.5	13.1	2.9	2.9	3.0	10.9	11.5	11.3
New Mexico	44.9	45.9	45.8	31.7	32.5	32.7	163.3	166.1	165.5
Albuquerque	28.5	30.0	29.6	15.5	15.6	15.9	78.8	79.5	79.4
Las Cruces	2.7	2.7	2.6	1.7	1.8	1.8	10.3	11.1	11.1
Santa Fe	2.1	2.0	2.0	1.2	1.1	1.1	14.6	14.6	14.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Maryland	129.2	130.2	130.5	722.0	741.7	748.1	418.5	416.2	422.8
Baltimore PMSA	71.8	72.2	72.7	373.8	385.6	387.8	210.8	209.1	212.2
Baltimore City	33.5	33.5	33.6	150.0	152.3	156.5	87.0	89.1	88.8
Suburban Maryland-D.C.	49.0	48.9	49.3	274.1	285.5	287.0	164.6	168.5	171.9
Massachusetts	210.7	214.6	214.3	1,076.4	1,101.0	1,116.1	405.1	406.2	413.1
Barnstable-Yarmouth	3.1	3.0	3.0	16.5	17.5	17.5	7.3	7.4	7.4
Boston	157.0	159.9	159.8	731.4	748.5	755.7	227.5	228.2	229.6
Brockton	3.2	3.3	3.3	24.5	25.1	26.5	16.1	16.6	16.5
Fitchburg-Leominster	1.5	1.6	1.6	12.2	13.3	13.3	7.7	8.2	8.3
Lawrence	4.6	4.4	4.4	41.1	43.3	43.8	18.5	18.3	18.8
Lowell	3.7	3.9	3.8	30.5	32.9	32.5	15.0	15.5	15.7
New Bedford	1.8	1.8	1.8	16.2	17.2	17.2	9.8	9.8	9.9
Pittsfield	1.9	2.0	1.9	13.5	13.9	13.9	4.9	5.3	5.4
Springfield	12.6	12.9	12.9	76.3	78.6	80.6	45.7	45.7	47.0
Worcester	14.8	14.9	14.9	65.1	64.9	65.7	33.5	34.9	35.2
Michigan	204.4	206.1	206.6	1,179.8	1,219.2	1,230.8	668.4	652.7	676.3
Ann Arbor	9.6	9.9	10.0	62.6	64.2	65.1	71.8	70.2	73.3
Benton Harbor	2.5	2.4	2.4	18.3	18.6	18.7	8.7	8.4	8.8
Detroit	111.7	112.5	112.5	620.5	638.0	644.6	232.9	229.1	235.3
Flint	6.3	6.4	6.4	49.6	50.0	51.1	25.4	24.8	25.5
Grand Rapids-Muskegon-Holland	21.6	22.5	22.5	136.6	141.4	142.4	55.0	55.4	56.4
Jackson	1.9	1.9	1.9	13.9	14.3	14.3	10.3	10.0	10.4
Kalamazoo-Battle Creek	10.8	10.9	10.9	52.2	52.8	53.2	35.7	34.3	35.7
Lansing-East Lansing	13.5	13.8	13.9	55.7	56.2	56.9	68.6	64.2	67.6
Saginaw-Bay City-Midland	6.8	6.9	6.8	47.0	48.0	48.4	22.7	22.2	22.8
Minnesota	143.7	148.0	148.7	678.7	695.3	703.5	387.1	382.7	389.1
Duluth-Superior	3.3	3.4	3.4	30.6	31.6	31.8	24.2	22.9	23.6
Minneapolis-St. Paul	112.8	115.4	115.4	456.5	467.8	473.4	222.3	224.2	228.4
Rochester	2.2	2.3	2.3	31.9	32.5	32.5	7.3	7.0	7.1
St. Cloud	2.9	3.0	3.0	20.6	21.1	21.5	13.3	12.9	13.3
Mississippi	41.2	40.9	41.1	250.0	259.7	261.6	220.3	220.9	222.5
Jackson	15.2	16.0	16.2	57.0	58.0	59.3	45.4	44.9	45.4
Missouri	151.5	154.6	154.6	710.0	719.3	732.0	415.5	410.6	426.5
Kansas City	63.0	66.1	66.4	260.0	270.2	272.3	131.2	134.1	137.1
St. Louis	78.4	80.0	80.3	393.4	397.5	403.5	158.7	153.6	157.3
Springfield	6.8	7.0	7.0	45.6	49.0	49.7	19.6	18.9	20.4
Montana	16.0	16.5	16.6	100.1	103.2	104.7	79.1	77.4	78.6
Nebraska	53.8	55.8	56.4	223.2	229.7	232.6	152.2	151.2	154.0
Lincoln	8.9	9.6	9.6	36.2	36.1	36.7	35.6	34.1	35.1
Omaha	32.7	35.8	36.2	129.0	131.4	133.0	50.9	51.6	52.2
Nevada	39.1	41.2	41.4	374.4	383.1	385.4	106.2	107.4	111.0
Las Vegas	29.8	31.0	31.2	281.8	288.3	290.3	65.8	68.1	69.7
Reno	7.8	8.3	8.3	66.3	66.9	67.4	23.1	22.4	23.7
New Hampshire	28.8	29.2	29.0	158.0	162.1	162.8	80.7	77.2	80.3
Manchester	7.4	7.2	7.2	30.1	30.1	30.7	10.7	11.3	11.3
Nashua	4.2	4.2	4.2	22.2	23.4	23.7	8.5	8.0	8.7
Portsmouth-Rochester	6.1	6.2	6.2	28.1	28.2	28.4	22.1	20.3	21.5
New Jersey	234.6	239.9	240.2	1,127.5	1,166.3	1,174.6	572.2	565.4	574.6
Atlantic-Cape May	6.0	6.2	6.2	82.1	83.0	83.5	28.3	27.9	28.7
Bergen-Passaic	33.7	34.1	34.3	186.2	193.9	193.0	71.3	71.7	72.3
Camden	21.9	22.9	22.8	140.3	144.6	145.5	79.5	79.6	80.3
Jersey City	25.5	26.3	26.3	57.3	57.8	58.9	38.8	37.9	37.9
Middlesex-Somerset-Hunterdon	44.2	44.9	44.7	171.6	185.6	188.0	78.0	76.1	78.7
Monmouth-Ocean	17.7	17.5	17.4	114.9	116.6	118.1	62.7	62.6	63.4
Newark	70.7	72.7	71.8	289.7	298.4	299.2	144.3	140.4	142.9
Trenton	11.1	11.4	11.4	68.0	68.6	69.8	52.2	51.8	51.6
Vineland-Millville-Bridgeton	3.2	3.0	3.0	12.1	12.4	12.8	12.8	13.7	13.8
New Mexico	31.1	31.1	31.2	190.5	195.2	196.8	177.5	175.0	181.3
Albuquerque	16.7	16.4	16.5	101.9	104.1	105.2	64.0	63.4	65.6
Las Cruces	2.0	2.0	2.0	10.5	11.0	11.0	20.0	19.9	20.0
Santa Fe	3.2	3.2	3.2	20.4	20.5	20.9	25.4	24.7	25.6

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		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
New York	7,853.4	7,925.7	7,973.3	3.7	3.3	3.6	226.0	234.3	232.3
Albany-Schenectady-Troy	422.9	422.8	427.1	.3	.3	.3	11.9	12.4	12.0
Binghamton	110.2	112.0	112.8	(1)	(1)	(1)	2.9	3.1	3.0
Buffalo-Niagara Falls	532.3	532.1	534.6	(1)	(1)	(1)	16.4	16.5	16.3
Dutchess County	104.7	104.6	105.6	(1)	(1)	(1)	3.6	3.7	3.8
Elmira	42.0	42.3	42.2	(1)	(1)	(1)	1.3	1.4	1.3
Glens Falls	47.4	47.5	47.9	(1)	(1)	(1)	1.6	1.6	1.6
Nassau-Suffolk	1,084.5	1,105.8	1,107.6	(1)	(1)	(1)	42.6	45.7	45.5
New York PMSA	3,846.6	3,892.5	3,915.6	(1)	(1)	(1)	105.8	109.1	109.7
New York City	3,352.0	3,393.0	3,414.6	.3	.3	.3	85.6	88.1	89.0
Newburgh	117.1	117.2	117.6	(1)	(1)	(1)	3.6	3.8	3.8
Rochester	518.6	516.8	520.5	.4	.3	.3	14.1	13.9	13.6
Rockland County	98.2	99.5	99.4	(1)	(1)	(1)	3.2	3.5	3.4
Syracuse	328.7	329.1	331.7	(1)	(1)	(1)	10.2	10.8	10.3
Ulica-Rome	124.0	125.7	125.7	(1)	(1)	(1)	2.4	2.8	2.6
Westchester County	377.0	379.9	381.4	(1)	(1)	(1)	15.4	15.8	15.6
North Carolina	3,577.8	3,680.3	3,703.6	3.9	4.0	4.0	193.8	203.2	202.2
Asheville	105.0	107.7	108.1	(1)	(1)	(1)	5.6	5.6	5.5
Charlotte-Gastonia-Rock Hill	739.2	763.0	764.7	(1)	(1)	(1)	44.3	47.2	47.2
Greensboro-Winston-Salem-High Point	622.2	635.7	636.7	(1)	(1)	(1)	29.2	31.4	31.4
Raleigh-Durham-Chapel Hill	598.2	625.4	628.7	(1)	(1)	(1)	32.1	35.1	35.0
North Dakota	306.1	311.3	313.6	3.8	3.9	4.0	10.8	12.3	12.1
Bismarck	47.4	48.3	48.4	(1)	(1)	(1)	2.0	2.1	2.1
Fargo-Moorhead	93.1	97.3	98.2	(1)	(1)	(1)	4.1	4.5	4.5
Grand Forks	47.3	47.3	48.1	(1)	(1)	(1)	1.8	2.4	2.4
Ohio	5,254.7	5,336.5	5,352.7	12.9	13.1	12.9	191.1	199.0	199.2
Akron	316.2	320.0	320.4	.4	.4	.4	10.9	11.8	11.5
Canton-Massillon	176.9	180.1	181.6	.5	.5	.5	7.1	8.0	7.9
Cincinnati	821.0	841.5	845.5	.7	.7	.7	35.1	37.6	37.5
Cleveland-Lorain-Elyria	1,107.4	1,132.5	1,137.4	.9	.9	.9	37.1	40.0	39.7
Columbus	794.5	817.3	820.1	.6	.7	.7	30.6	33.4	33.4
Dayton-Springfield	467.3	472.1	473.8	.4	.4	.4	15.1	16.3	16.2
Hamilton-Middletown	116.1	116.7	118.3	(1)	(1)	(1)	6.0	6.4	6.6
Lima	75.2	78.0	78.0	(1)	(1)	(1)	3.1	3.7	3.7
Mansfield	78.1	78.9	78.8	(1)	(1)	(1)	2.2	2.3	2.2
Steubenville-Weirton	47.2	49.9	49.9	.4	.4	.4	1.4	1.5	1.5
Toledo	311.5	314.3	314.6	.2	.1	.1	13.0	13.3	13.1
Youngstown-Warren	240.2	245.0	245.5	.5	.5	.5	8.2	9.1	8.9
Oklahoma	1,363.1	1,391.2	1,402.1	31.6	31.7	31.7	48.8	49.5	50.5
Enid	24.0	25.1	25.3	1.1	1.2	1.2	1.0	1.1	1.1
Lawton	37.1	36.4	36.5	.1	.1	.1	1.2	.9	.9
Oklahoma City	492.4	496.7	501.2	6.9	7.3	7.3	18.3	17.8	18.1
Tulsa	364.9	377.2	380.2	7.7	7.5	7.5	14.0	15.1	16.0
Oregon	1,483.5	1,521.8	1,532.3	1.7	1.8	1.8	74.2	77.4	77.8
Eugene-Springfield	134.2	135.7	137.2	.2	.2	.2	6.5	6.9	7.0
Medford-Ashland	65.6	68.2	68.2	.1	.1	.1	2.9	3.1	3.2
Portland-Vancouver	894.1	922.7	929.0	1.0	1.1	1.1	49.6	50.2	50.7
Salem	128.1	129.0	129.7	.2	.2	.2	7.0	7.5	7.4
Pennsylvania	5,294.8	5,353.8	5,386.0	19.3	19.8	19.3	185.9	197.7	192.9
Allentown Bethlehem-Easton	261.4	262.5	264.5	(1)	(1)	(1)	9.3	9.2	9.1
Altoona	56.8	57.7	57.8	(1)	(1)	(1)	2.1	2.1	2.1
Erie	126.8	128.2	128.3	(1)	(1)	(1)	3.7	3.7	3.7
Harrisburg-Lebanon-Carlisle	344.7	349.8	349.9	(1)	(1)	(1)	11.6	12.3	11.7
Johnstown	86.0	87.5	87.2	(1)	(1)	(1)	3.9	4.1	4.0
Lancaster	207.6	212.1	214.1	.4	.4	.3	11.4	11.8	11.8
Philadelphia PMSA	2,220.4	2,239.2	2,246.3	(1)	(1)	(1)	78.2	84.9	83.2
Philadelphia City	663.5	662.7	669.9	(1)	(1)	(1)	10.0	10.4	10.1
Pittsburgh	1,052.0	1,060.3	1,060.9	4.2	4.6	4.6	42.9	43.9	44.2
Reading	161.7	164.1	164.6	(1)	(1)	(1)	6.3	6.8	6.9
Scranton-Wilkes-Barre-Hazleton	269.9	271.1	272.6	.4	.3	.3	8.8	9.4	9.7
Sharon	46.6	46.9	47.6	(1)	(1)	(1)	1.2	1.3	1.2
State College	66.3	66.0	69.0	(1)	(1)	(1)	1.9	2.3	2.2
Williamsport	51.9	52.3	53.0	(1)	(1)	(1)	1.9	1.9	1.9
York	160.8	164.1	164.1	.4	.4	.4	7.4	7.7	7.7

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
New York	908.4	907.1	910.4	404.0	405.2	405.7	1,587.1	1,625.7	1,609.4
Albany-Schenectady-Troy	38.1	38.7	38.7	16.9	16.9	16.9	88.6	91.0	89.5
Binghamton	24.2	24.8	24.6	4.9	4.7	4.7	23.2	24.0	23.8
Buffalo-Niagara Falls	88.8	89.5	89.6	24.8	24.6	24.7	127.2	128.1	126.7
Dutchess County	17.2	18.0	18.1	3.6	3.4	3.4	19.8	19.7	19.4
Elmira	9.6	9.7	9.7	1.5	1.5	1.5	10.2	10.3	10.1
Glens Falls	8.4	8.5	8.5	1.4	1.4	1.4	10.6	10.8	10.7
Nassau-Suffolk	111.4	112.0	112.3	50.7	52.1	52.3	277.1	287.0	281.5
New York PMSA	311.6	306.4	311.2	231.7	232.1	233.0	672.2	690.3	686.0
New York City	259.3	254.0	258.7	205.6	205.5	206.3	563.8	579.7	576.9
Newburgh	11.8	11.2	11.2	6.6	6.8	6.9	31.5	32.3	32.0
Rochester	126.4	125.3	124.4	16.5	16.7	16.7	107.6	110.5	109.0
Rockland County	11.9	12.3	12.3	6.1	6.4	6.4	21.7	22.3	21.8
Syracuse	48.3	48.9	49.0	19.0	19.7	19.7	75.6	77.5	76.6
Utica-Rome	19.6	19.5	19.5	3.9	3.6	3.6	25.5	25.8	25.3
Westchester County	38.6	38.2	38.2	19.3	19.6	19.6	82.5	84.2	83.2
North Carolina	833.4	831.0	830.1	167.8	169.5	169.7	810.5	830.8	833.7
Asheville	20.0	19.8	19.7	4.5	4.5	4.5	25.8	26.6	26.6
Charlotte-Gastonia-Rock Hill	144.1	143.9	144.0	53.3	52.8	52.8	178.5	186.2	186.3
Greensboro-Winston-Salem-High Point	164.9	164.4	164.8	33.2	31.8	31.8	139.8	142.0	142.2
Raleigh-Durham-Chapel Hill	81.3	84.9	84.7	25.6	27.4	27.6	126.1	132.3	132.5
North Dakota	22.3	23.6	23.5	18.2	18.2	18.1	78.8	80.1	79.9
Bismarck	2.5	2.6	2.5	3.1	3.1	3.1	11.7	12.1	12.0
Fargo-Moorhead	7.7	8.1	8.2	5.3	5.2	5.2	26.7	27.4	27.5
Grand Forks	3.7	3.5	3.6	2.2	2.4	2.4	12.9	12.8	12.8
Ohio	1,081.5	1,090.9	1,091.5	229.0	231.5	231.5	1,271.8	1,295.5	1,285.9
Akron	64.5	64.0	64.3	14.2	14.6	14.5	78.0	79.4	79.3
Canton-Massillon	45.9	46.6	46.9	5.1	5.2	5.2	44.0	45.5	45.3
Cincinnati	138.5	140.5	140.6	43.8	43.8	43.9	212.9	216.4	214.9
Cleveland-Lorain-Elyria	221.5	221.0	224.3	44.2	45.2	45.0	261.8	270.7	268.4
Columbus	92.1	94.0	93.7	35.8	35.7	35.9	208.0	214.8	213.8
Dayton-Springfield	99.5	100.1	99.8	20.2	20.7	20.7	107.2	110.0	109.3
Hamilton-Middletown	21.2	20.7	20.7	4.7	4.7	4.7	31.7	31.6	31.5
Lima	19.6	19.6	19.5	2.9	3.1	3.1	17.5	18.4	18.4
Mansfield	22.7	22.7	22.8	3.5	3.3	3.3	17.5	18.5	18.3
Steubenville-Weirton	11.4	13.7	13.9	2.7	2.6	2.6	10.6	10.3	10.2
Toledo	60.7	61.4	60.8	13.9	14.5	14.6	77.2	78.2	77.4
Youngstown-Warren	58.5	59.4	59.0	10.2	10.3	10.5	60.5	61.8	61.6
Oklahoma	177.9	183.6	183.8	77.2	80.3	80.6	315.7	322.1	321.4
Enid	2.1	2.3	2.4	2.0	2.0	2.0	5.8	6.1	6.1
Lawton	3.7	3.5	3.5	1.7	1.7	1.7	8.8	8.7	8.7
Oklahoma City	52.4	55.0	54.9	24.1	24.6	24.9	116.4	118.2	117.8
Tulsa	56.1	57.2	57.0	28.6	30.0	30.2	86.1	87.0	86.8
Oregon	235.4	240.8	241.7	73.3	74.1	73.6	362.9	376.4	376.2
Eugene-Springfield	20.4	20.9	21.1	4.5	4.6	4.5	33.2	34.4	34.3
Medford-Ashland	9.0	9.0	8.8	3.2	3.3	3.4	18.7	20.2	19.5
Portland-Vancouver	143.3	149.5	150.2	51.5	53.4	53.2	221.2	230.2	230.7
Salem	16.6	16.4	16.5	3.4	3.4	3.4	27.1	27.7	27.5
Pennsylvania	926.2	936.3	935.2	276.0	279.3	279.4	1,184.5	1,204.2	1,197.3
Allentown Bethlehem-Easton	56.7	56.4	56.1	15.3	15.2	15.4	55.0	56.2	56.2
Altoona	10.0	10.2	10.0	4.3	4.4	4.3	15.2	15.6	15.6
Erie	33.4	34.2	34.0	4.8	4.7	4.7	28.3	29.1	28.7
Harrisburg-Lebanon-Carlisle	44.9	45.6	45.5	22.8	23.2	23.1	76.0	78.5	77.9
Johnstown	12.7	12.7	12.6	5.1	5.1	5.1	20.1	20.3	20.0
Lancaster	56.5	56.5	56.5	8.3	8.5	8.5	50.6	52.8	52.6
Philadelphia PMSA	303.5	302.5	302.0	106.8	108.8	108.8	487.0	494.4	488.4
Philadelphia City	59.4	57.5	57.1	33.7	34.0	33.8	107.0	108.4	107.4
Pittsburgh	134.0	138.4	138.6	65.7	65.5	65.4	251.0	255.6	253.4
Reading	44.2	43.7	43.4	7.7	7.9	7.9	38.0	38.6	38.4
Scranton-Wilkes-Barre-Hazleton	54.8	53.9	53.8	15.1	15.6	15.5	64.2	65.1	64.0
Sharon	10.9	11.3	11.2	1.9	1.9	1.9	12.2	12.3	12.3
State College	8.5	8.6	8.6	2.1	2.1	2.0	12.6	12.8	13.1
Williamsport	13.0	13.1	13.3	1.9	1.8	1.9	12.5	12.9	13.0
York	47.6	48.1	47.8	7.5	7.6	7.7	38.4	40.5	39.8

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	Finance, insurance and real estate			Services			Government		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
New York	710.4	714.4	716.7	2,628.8	2,676.9	2,717.1	1,385.0	1,358.7	1,378.1
Albany-Schenectady-Troy	25.1	25.1	25.2	132.4	130.7	135.1	109.4	107.5	109.5
Binghamton	3.7	3.7	3.7	29.1	30.2	30.5	22.1	21.4	22.6
Buffalo-Niagara Falls	28.3	28.9	28.9	158.9	158.7	160.8	88.0	85.9	87.7
Dutchess County	4.5	4.4	4.4	32.9	32.9	33.6	23.1	22.4	22.9
Elmira	1.3	1.2	1.2	10.7	10.9	10.9	7.4	7.3	7.5
Glens Falls	2.3	2.1	2.1	13.1	13.3	13.5	10.0	9.7	10.1
Nassau-Suffolk	78.1	77.8	78.2	345.3	354.8	357.9	179.3	176.3	180.0
New York PMSA	497.6	501.5	503.3	1,421.9	1,454.7	1,471.8	605.8	598.4	600.6
New York City	465.7	469.3	471.0	1,248.9	1,278.9	1,294.0	522.8	517.2	518.3
Newburgh	5.3	5.4	5.5	30.4	30.6	30.8	27.7	27.0	27.5
Rochester	21.2	20.8	20.8	152.2	154.0	155.7	80.2	75.3	80.1
Rockland County	4.9	4.8	4.8	30.8	31.3	31.5	19.6	18.9	19.2
Syracuse	17.8	17.8	17.7	96.7	95.1	97.5	61.1	59.4	61.0
Utica-Rome	7.6	7.5	7.5	36.9	39.2	39.3	28.0	27.3	27.8
Westchester County	25.9	26.0	26.1	136.2	138.3	140.1	59.1	57.9	58.7
North Carolina	160.8	169.1	170.9	826.9	876.4	887.0	580.7	596.3	606.0
Asheville	3.2	3.1	3.1	30.3	32.3	32.6	15.6	15.8	16.1
Charlotte-Gastonia-Rock Hill	52.1	54.2	54.4	178.2	187.1	188.0	88.7	91.6	92.0
Greensboro--Winston-Salem--High Point	31.8	33.1	33.0	156.3	164.9	165.2	67.0	68.1	68.3
Raleigh-Durham-Chapel Hill	28.6	30.1	30.4	182.6	193.7	194.4	121.9	121.9	124.1
North Dakota	14.4	15.1	15.2	85.3	87.2	88.0	72.5	70.9	72.8
Bismarck	2.3	2.3	2.3	15.5	15.5	15.6	10.3	10.6	10.8
Fargo-Moorhead	5.9	6.3	6.4	28.5	30.4	30.5	14.9	15.4	15.9
Grand Forks	1.5	1.5	1.5	12.6	12.0	12.1	12.6	12.7	13.3
Ohio	281.3	286.9	287.0	1,416.5	1,457.7	1,467.7	770.6	761.9	777.0
Akron	12.7	13.0	12.9	86.4	88.6	88.5	49.1	48.2	49.0
Canton-Massillon	5.8	6.0	6.1	48.5	49.3	49.8	20.0	19.0	19.9
Cincinnati	51.6	53.7	54.2	238.1	247.8	250.2	100.3	101.0	103.5
Cleveland-Lorain-Elyria	73.0	74.2	74.3	323.5	336.2	338.8	145.4	144.3	146.2
Columbus	70.1	71.7	71.8	220.2	228.8	231.8	137.1	138.2	139.0
Dayton-Springfield	17.4	18.0	18.1	134.5	136.6	137.5	73.0	70.0	71.8
Hamilton-Middletown	6.2	6.4	6.4	25.2	26.4	26.7	21.1	20.5	21.7
Lima	2.0	2.1	2.1	19.7	20.7	20.7	10.4	10.4	10.5
Mansfield	2.8	2.5	2.5	18.9	19.5	19.3	10.5	10.1	10.4
Steubenville-Weirton	1.4	1.5	1.5	13.0	13.4	13.3	6.3	6.5	6.5
Toledo	10.7	10.9	11.0	87.3	88.7	88.8	48.5	47.2	48.8
Youngstown-Warren	9.2	9.3	9.4	61.6	62.7	62.9	31.5	31.9	32.7
Oklahoma	68.2	69.8	70.0	365.9	376.0	380.9	277.8	278.2	283.2
Enid	1.0	1.0	1.0	6.8	7.2	7.2	4.2	4.2	4.3
Lawton	1.7	1.7	1.7	8.3	8.1	8.2	11.6	11.7	11.7
Oklahoma City	28.0	28.9	29.2	142.9	143.1	145.4	103.4	101.8	103.6
Tulsa	19.6	20.4	20.5	110.5	117.6	119.5	42.3	42.4	42.7
Oregon	93.5	95.6	96.0	388.1	400.5	405.3	254.4	255.2	259.9
Eugene-Springfield	7.2	7.4	7.4	36.1	36.4	36.9	26.1	24.9	25.8
Medford-Ashland	3.1	3.1	3.1	18.0	18.9	19.2	10.6	10.5	10.9
Portland-Vancouver	66.0	66.5	66.9	244.6	253.4	255.7	116.9	118.4	120.5
Salem	6.6	6.5	6.5	30.1	30.3	30.8	37.1	37.0	37.4
Pennsylvania	308.2	315.3	315.7	1,667.6	1,692.0	1,718.0	727.1	709.2	728.2
Allentown Bethlehem-Easton	13.0	13.1	13.2	81.0	81.5	82.9	31.1	30.9	31.6
Altoona	2.0	1.9	1.9	15.0	15.7	15.8	8.2	7.8	8.1
Erie	5.3	5.5	5.5	35.6	35.3	35.7	15.7	15.7	16.0
Harrisburg-Lebanon-Carlisle	26.0	25.8	25.8	91.0	97.3	98.0	72.4	67.1	67.9
Johnstown	4.1	4.2	4.1	26.2	27.3	27.5	13.9	13.8	13.9
Lancaster	9.1	9.6	9.6	52.4	54.2	55.2	18.9	18.3	19.6
Philadelphia PMSA	154.5	157.5	156.9	790.8	794.5	808.2	299.6	296.6	298.8
Philadelphia City	52.3	54.2	53.9	280.9	278.3	287.4	120.2	119.9	120.2
Pittsburgh	61.0	62.0	62.1	365.7	364.9	366.0	127.5	125.4	126.6
Reading	8.7	8.5	8.5	37.9	39.8	39.6	18.9	18.8	19.9
Scranton--Wilkes-Barre--Hazleton	13.6	13.8	13.8	77.2	78.3	79.7	35.8	34.7	35.8
Sharon	1.4	1.6	1.6	13.4	13.0	13.7	5.6	5.5	5.7
State College	2.0	1.9	2.0	13.6	13.7	14.1	25.6	24.6	27.0
Williamsport	2.1	2.1	2.1	14.3	14.4	14.6	6.2	6.1	6.2
York	5.0	5.2	5.1	37.7	38.5	39.2	16.8	16.1	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		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Rhode Island	435.5	443.9	446.8	.1	.1	.1	11.8	14.1	13.9
Providence-Fall River-Warwick	492.5	500.6	502.0	.2	.2	.2	13.0	16.0	16.0
South Carolina	1,683.7	1,729.3	1,741.3	1.8	1.9	1.9	97.2	102.3	102.7
Charleston-North Charleston	215.2	224.8	226.4	(1)	(1)	(1)	14.8	16.8	16.9
Columbia	278.7	282.7	285.4	(1)	(1)	(1)	15.4	15.5	15.5
Greenville-Spartanburg-Anderson	452.0	460.3	462.8	(1)	(1)	(1)	28.8	29.9	30.2
South Dakota	342.5	347.7	348.1	2.1	2.0	2.0	11.8	13.4	13.4
Rapid City	44.0	44.5	44.7	(1)	(1)	(1)	2.5	2.6	2.7
Sioux Falls	98.5	102.9	103.2	(1)	(1)	(1)	3.9	4.0	4.0
Tennessee	2,524.8	2,579.8	2,581.4	4.4	4.3	4.4	108.3	109.7	107.6
Chattanooga	218.4	221.1	221.2	(1)	(1)	(1)	9.7	9.6	9.7
Johnson City-Kingsport-Bristol	198.4	200.1	200.9	(1)	(1)	(1)	10.7	10.9	11.1
Knoxville	307.8	311.8	312.1	.5	.5	.5	14.5	15.0	15.0
Memphis	549.8	553.4	555.9	(1)	(1)	(1)	23.1	24.0	24.2
Nashville	613.8	628.4	633.1	(1)	(1)	(1)	29.0	30.7	31.2
Texas	8,403.0	8,685.4	8,751.0	160.7	168.5	168.4	442.4	460.2	467.0
Abilene	54.5	55.8	56.0	1.6	1.7	1.8	2.1	2.3	2.3
Amarillo	91.3	93.1	94.5	.6	.6	.6	4.5	4.7	4.8
Austin-San Marcos	553.9	574.7	581.5	1.2	1.2	1.2	28.1	30.8	31.5
Beaumont-Port Arthur	154.5	158.3	158.8	.7	.8	.8	15.0	14.8	15.0
Brazoria	73.1	74.3	74.9	1.4	1.3	1.3	9.2	9.1	9.2
Brownsville-Harlingen-San Benito	96.3	99.2	99.2	(1)	(1)	(1)	3.3	3.6	3.5
Bryan-College Station	67.0	66.6	69.7	.8	.9	.9	2.6	3.0	3.1
Corpus Christi	152.8	154.9	155.9	2.4	2.4	2.4	13.2	11.2	11.5
Dallas	1,704.6	1,795.9	1,807.7	11.7	11.6	11.6	77.2	83.2	83.8
El Paso	237.9	242.8	244.7	(1)	(1)	(1)	11.4	11.7	12.0
Ft. Worth-Arlington	685.2	711.3	716.7	4.2	4.2	4.2	33.0	33.8	34.7
Galveston-Texas City	85.9	88.0	88.5	.7	.7	.7	4.9	4.3	4.4
Houston	1,848.7	1,927.4	1,937.8	65.4	69.6	69.5	124.1	129.3	129.8
Killeen-Temple	95.7	97.9	98.6	(1)	(1)	(1)	3.9	4.0	4.0
Laredo	58.5	61.5	61.4	3.1	2.9	2.8	1.9	2.1	2.2
Longview-Marshall	86.3	88.5	88.9	3.3	3.4	3.4	4.1	4.3	4.3
Lubbock	111.3	113.6	115.1	1	1	1	4.0	4.3	4.4
McAllen-Edinburg-Mission	133.1	141.2	141.8	1.1	1.2	1.2	6.6	7.2	7.2
Odessa Midland	100.0	105.0	105.9	12.3	13.6	13.6	5.2	5.7	5.9
San Angelo	43.2	43.1	43.3	.7	.7	.7	1.9	1.9	1.7
San Antonio	648.0	667.1	673.5	1.9	1.9	1.9	33.1	35.0	35.4
Sherman-Denison	43.0	43.9	44.0	(1)	(1)	(1)	2.0	2.1	2.1
Texarkana	50.0	51.1	51.4	(1)	(1)	(1)	1.9	2.0	2.0
Tyler	75.1	77.6	78.0	1.5	1.6	1.6	2.6	2.8	2.8
Victoria	34.4	35.3	35.6	1.6	1.7	1.7	2.3	2.3	2.4
Waco	93.9	96.2	97.3	(1)	(1)	(1)	4.4	4.6	4.6
Wichita Falls	58.7	59.5	59.9	1.1	1.1	1.1	2.3	2.2	2.2
Utah	970.5	998.8	1,008.5	8.1	8.3	8.2	56.9	60.2	61.2
Provo-Orem	133.1	135.6	137.3	(1)	(1)	(1)	8.1	8.0	8.0
Salt Lake City-Ogden	654.1	673.8	678.8	3.0	3.0	3.0	38.4	40.6	41.5
Vermont	277.1	277.0	280.7	.4	.4	.4	10.2	11.2	10.4
Barre-Montpelier	30.1	30.3	30.6	(1)	(1)	(1)	1.0	1.0	1.0
Burlington	96.5	96.9	98.7	(1)	(1)	(1)	4.1	4.1	4.0
Virginia	3,159.5	3,241.6	3,255.0	11.3	10.8	10.9	176.8	182.4	181.9
Bristol	37.0	37.0	36.9	(1)	(1)	(1)	1.5	1.4	1.3
Charlottesville	79.6	78.2	81.4	(1)	(1)	(1)	4.1	4.1	4.2
Danville	45.3	46.1	45.6	(1)	(1)	(1)	2.3	2.2	2.1
Lynchburg	95.9	95.5	96.4	(1)	(1)	(1)	5.5	5.6	5.5
Norfolk-Virginia Beach-Newport News	650.0	659.4	659.1	(1)	(1)	(1)	39.7	39.4	38.8
Northern Virginia	973.9	1,011.2	1,011.3	.6	.7	.7	52.5	55.4	54.7
Richmond-Petersburg	514.9	528.8	532.0	.6	.8	.8	31.4	33.3	33.4
Roanoke	138.6	140.3	140.0	(1)	(1)	(1)	8.0	8.3	8.3
Washington	2,434.0	2,498.9	2,521.0	3.3	3.3	3.3	123.8	126.3	127.4
Seattle-Bellevue-Everett	1,251.9	1,309.0	1,322.5	.6	.7	.7	61.7	62.6	64.3
Spokane	179.5	184.9	186.7	(1)	(1)	(1)	9.1	9.5	9.4
Tacoma	224.2	228.9	230.0	.2	.2	.2	11.6	12.5	12.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Rhode Island	79.5	79.1	79.2	15.0	15.2	15.7	94.2	95.8	95.6
Providence-Fall River-Warwick	101.7	102.4	102.0	17.2	17.4	17.3	112.4	112.3	111.6
South Carolina	362.4	362.6	361.4	73.5	74.9	75.1	393.6	416.8	418.0
Charleston-North Charleston	21.2	21.5	21.6	11.5	12.4	12.6	53.2	54.6	54.6
Columbia	25.7	26.0	25.8	12.8	12.5	12.6	63.5	65.9	66.0
Greenville-Spartanburg-Anderson	123.1	122.5	122.0	20.4	20.4	20.6	112.2	116.9	117.1
South Dakota	48.2	48.5	48.1	16.2	16.0	16.0	84.5	85.1	84.6
Rapid City	4.2	4.5	4.5	1.9	1.9	1.8	13.0	12.9	12.9
Sioux Falls	13.5	14.3	14.0	6.5	6.3	6.5	25.1	25.9	25.9
Tennessee	515.2	517.0	517.5	147.5	151.0	150.9	590.1	607.0	603.8
Chattanooga	42.3	42.8	42.9	11.6	12.0	12.0	51.4	53.0	52.3
Johnson City-Kingsport-Bristol	53.0	51.3	51.1	8.0	7.6	7.6	44.0	45.3	45.1
Knoxville	48.9	49.4	49.3	14.3	14.0	13.9	80.3	81.1	81.4
Memphis	62.5	62.7	62.8	61.8	61.6	62.2	138.3	140.2	139.4
Nashville	96.5	96.5	98.1	30.9	31.1	31.3	148.1	152.8	152.6
Texas	1,063.5	1,087.6	1,090.5	498.7	525.2	527.5	1,990.0	2,063.1	2,058.6
Abilene	3.1	3.2	3.2	2.6	2.4	2.4	14.2	14.6	14.5
Amarillo	9.4	9.3	9.4	5.5	5.6	5.6	25.4	26.0	26.0
Austin-San Marcos	73.6	77.8	78.4	18.1	19.0	19.2	118.0	122.7	122.9
Beaumont-Port Arthur	24.4	24.7	24.9	8.0	7.9	7.9	35.1	36.1	36.0
Brazoria	16.5	16.6	16.6	2.7	2.7	2.8	14.1	14.8	14.8
Brownsville-Harlingen-San Benito	12.7	12.0	11.9	4.2	4.4	4.4	23.3	23.9	24.2
Bryan-College Station	3.6	4.2	4.2	1.3	1.5	1.5	14.6	14.6	15.0
Corpus Christi	13.4	13.4	13.4	6.4	6.4	6.4	34.8	35.7	35.6
Dallas	241.2	247.6	248.7	115.2	123.4	125.2	416.6	432.8	432.0
El Paso	43.0	40.7	40.6	12.7	13.6	13.7	55.9	58.1	57.8
Ft. Worth-Arlington	106.1	109.6	109.9	63.1	66.9	67.1	173.3	183.1	182.1
Galveston-Texas City	7.9	8.0	8.0	4.2	4.2	4.3	18.6	19.1	19.0
Houston	204.2	214.6	214.4	129.1	135.4	135.8	423.6	444.2	444.3
Killeen-Temple	9.5	9.2	9.1	3.4	3.5	3.6	22.0	22.9	22.9
Laredo	1.4	1.6	1.6	0.5	0.6	0.7	15.9	16.8	16.6
Longview-Marshall	18.7	18.9	19.0	3.9	4.0	4.0	21.2	22.3	22.3
Lubbock	7.5	7.8	7.8	5.7	5.7	5.6	31.3	31.9	32.2
McAllen-Edinburg-Mission	12.9	13.4	13.2	4.6	4.8	4.8	37.2	40.1	40.2
Odessa Midland	7.2	7.5	7.5	4.1	4.2	4.2	26.5	27.3	27.3
San Angelo	5.3	4.7	4.7	2.3	2.3	2.3	10.2	10.0	10.1
San Antonio	49.7	50.2	50.1	29.9	30.9	30.9	156.6	162.0	161.6
Sherman-Denison	10.4	10.6	10.6	1.6	1.6	1.6	9.5	9.6	9.6
Texarkana	5.9	5.9	6.0	2.2	2.3	2.3	12.9	13.4	13.3
Tyler	11.2	10.8	10.8	3.6	3.8	3.9	19.0	20.0	20.0
Victoria	3.2	3.2	3.2	1.5	1.5	1.5	9.1	9.4	9.4
Waco	16.5	16.3	16.4	3.6	3.9	3.9	21.2	21.9	22.1
Wichita Falls	6.3	8.5	8.5	3.0	2.9	2.9	13.5	13.5	13.5
Utah	131.2	133.9	134.2	54.9	57.1	57.4	230.6	238.3	238.7
Provo-Orem	19.3	20.0	20.1	2.2	2.3	2.3	29.5	30.1	30.4
Salt Lake City-Ogden	81.4	82.7	82.7	43.2	45.4	45.6	158.1	163.6	162.9
Vermont	45.7	46.6	46.8	12.0	12.3	12.3	63.7	64.5	64.0
Barre-Montpelier	3.3	3.3	3.4	1.1	1.1	1.1	6.6	6.7	6.8
Burlington	17.5	18.3	18.3	4.6	4.5	4.5	21.6	21.6	21.6
Virginia	399.9	405.8	405.4	163.6	169.0	170.2	702.9	722.7	717.5
Bristol	10.0	9.7	9.6	1.3	1.3	1.3	9.7	10.0	10.0
Charlottesville	8.0	8.2	8.2	2.2	2.2	2.2	16.2	16.2	16.4
Danville	15.9	15.4	15.2	1.0	1.0	1.0	9.5	9.9	9.7
Lynchburg	25.4	25.2	25.1	3.5	3.6	3.6	20.4	20.2	20.0
Norfolk-Virginia Beach-Newport News	67.8	69.0	68.7	31.7	32.0	32.0	150.8	152.5	151.2
Northern Virginia	41.3	44.6	44.8	58.6	60.8	60.5	209.7	213.9	211.6
Richmond-Petersburg	60.9	61.4	61.7	26.6	27.4	27.5	121.2	125.6	125.1
Roanoke	19.7	19.3	18.9	8.5	8.5	8.5	35.8	36.0	35.8
Washington	355.8	370.6	371.8	129.5	133.0	133.8	583.2	603.3	601.7
Seattle-Bellevue-Everett	210.2	225.1	225.0	75.6	78.4	80.1	294.0	303.2	302.3
Spokane	21.9	22.4	22.9	7.6	7.9	7.9	44.9	47.3	47.6
Tacoma	24.9	25.2	25.1	9.5	9.4	9.5	54.8	58.1	57.7

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		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Rhode Island	26.1	26.7	26.7	145.3	147.3	149.4	63.5	65.6	66.2
Providence-Fall River-Warwick	28.0	28.8	28.8	154.9	157.5	159.5	65.1	66.0	66.6
South Carolina	72.5	75.0	75.6	380.0	394.2	400.2	302.7	301.6	306.4
Charleston-North Charleston	8.1	8.3	8.4	57.8	61.6	62.1	48.6	49.6	50.2
Columbia	19.6	20.2	20.4	68.8	69.1	70.0	72.9	73.5	75.1
Greenville-Spartanburg-Anderson	15.4	15.6	15.6	95.2	96.9	98.5	56.9	58.1	58.8
South Dakota	20.3	21.5	21.4	88.3	90.7	91.4	71.1	70.5	71.2
Rapid City	1.7	1.7	1.7	13.4	13.6	13.6	7.3	7.3	7.5
Sioux Falls	11.1	12.2	12.2	28.8	30.2	30.5	9.6	10.0	10.1
Tennessee	117.3	122.3	121.9	656.6	682.6	685.0	385.4	385.9	390.3
Chattanooga	15.1	15.4	15.4	53.5	54.5	54.8	34.8	33.8	34.1
Johnson City-Kingsport-Bristol	6.0	6.1	6.1	47.7	50.6	50.9	29.0	28.3	29.0
Knoxville	13.4	13.9	13.8	81.0	83.9	83.9	54.9	54.0	54.3
Memphis	27.6	27.6	27.5	156.4	158.8	159.5	80.1	78.5	80.3
Nashville	38.0	39.5	39.3	190.0	194.3	196.1	81.3	83.5	84.5
Texas	453.1	470.2	472.0	2,302.7	2,420.3	2,451.2	1,491.9	1,490.3	1,515.8
Abilene	2.2	2.4	2.4	18.8	19.1	19.3	9.9	10.1	10.1
Amarillo	4.6	4.9	4.9	24.7	25.6	26.2	16.6	16.4	17.0
Austin-San Marcos	29.4	30.2	30.2	155.5	164.7	166.4	130.0	128.3	131.7
Beaumont-Port Arthur	4.9	5.2	5.2	40.2	41.9	42.0	26.2	26.9	27.0
Brazoria	1.9	1.8	1.8	13.5	13.8	13.8	13.8	14.2	14.6
Brownsville-Harlingen-San Benito	3.6	3.7	3.6	26.4	28.1	28.3	22.8	23.5	23.3
Bryan-College Station	2.3	2.2	2.2	14.4	14.9	15.1	27.4	25.3	27.7
Corpus Christi	6.4	6.5	6.5	45.4	48.4	48.9	30.8	30.9	31.2
Dallas	134.2	142.6	143.5	511.2	552.4	558.8	197.3	202.3	204.1
El Paso	9.2	9.7	9.8	52.8	55.3	56.2	52.9	53.7	54.6
Ft. Worth-Arlington	31.2	32.6	32.6	183.4	189.9	193.6	90.9	91.2	92.5
Galveston-Texas City	5.3	5.5	5.5	17.7	18.7	18.8	26.6	27.5	27.8
Houston	97.3	101.6	101.6	551.3	580.8	588.6	253.7	251.9	253.8
Killeen-Temple	3.9	4.0	4.1	25.9	27.2	27.3	27.1	27.1	27.6
Laredo	2.2	2.3	2.3	10.3	10.9	11.0	14.2	14.3	14.2
Longview-Marshall	3.2	3.2	3.2	20.2	20.8	20.9	11.7	11.6	11.8
Lubbock	5.2	5.6	5.6	32.5	33.9	34.4	25.0	24.3	25.0
McAllen-Edinburg-Mission	4.7	4.9	5.0	29.7	31.9	32.1	36.3	37.7	38.1
Odessa Midland	3.5	3.5	3.6	23.3	24.9	25.0	17.9	18.3	18.8
San Angelo	1.6	1.6	1.6	12.3	12.8	13.0	8.9	9.1	9.2
San Antonio	43.2	44.2	44.4	198.5	209.3	213.6	135.1	133.6	135.6
Sherman-Denison	2.0	2.1	2.1	11.8	12.3	12.3	5.7	5.6	5.7
Texarkana	1.7	1.7	1.7	13.5	14.4	14.5	11.9	11.4	11.6
Tyler	3.9	4.1	4.1	22.0	23.5	23.6	11.3	11.0	11.2
Victoria	1.6	1.4	1.3	9.0	9.6	9.7	6.1	6.2	6.4
Waco	5.6	5.6	5.6	27.3	28.8	29.4	15.3	15.1	15.3
Wichita Falls	2.1	2.1	2.1	15.7	16.3	16.6	12.7	12.9	13.0
Utah	51.7	53.3	53.8	262.9	272.4	275.8	174.2	175.3	179.2
Provo-Orem	3.8	4.1	4.1	51.5	51.8	52.8	18.7	19.3	19.6
Salt Lake City-Ogden	42.7	43.7	44.1	174.9	182.1	183.8	112.4	112.7	115.2
Vermont	12.0	12.1	12.0	85.5	84.9	87.5	47.6	45.0	47.3
Barre-Montpelier	2.6	2.4	2.4	8.4	8.6	8.8	7.1	7.2	7.1
Burlington	4.7	5.0	4.9	27.7	28.7	29.2	16.3	14.7	16.2
Virginia	165.5	169.3	169.5	935.9	984.1	994.7	603.6	597.5	604.9
Bristol	1.2	1.3	1.3	7.7	7.8	7.9	5.6	5.5	5.5
Charlottesville	3.9	4.1	4.2	19.2	19.6	19.8	26.0	23.8	26.4
Danville	1.4	1.4	1.4	9.1	10.2	10.2	6.1	6.0	6.0
Lynchburg	4.1	4.3	4.4	24.2	24.2	25.3	12.8	12.4	12.5
Norfolk-Virginia Beach-Newport News	30.2	31.2	31.3	187.1	191.2	192.3	142.7	144.1	144.8
Northern Virginia	54.5	55.4	55.6	375.8	402.0	403.5	180.9	178.4	179.9
Richmond-Petersburg	43.9	44.3	44.6	130.7	139.7	141.4	99.6	96.3	97.5
Roanoke	9.2	9.2	9.3	39.6	41.2	41.4	17.8	17.8	17.8
Washington	124.5	130.2	130.9	655.3	675.0	685.7	458.6	457.2	466.4
Seattle-Bellevue-Everett	75.0	79.7	80.7	357.7	379.6	383.7	177.1	179.7	185.7
Spokane	10.6	11.0	11.1	54.4	55.6	56.2	31.0	31.2	31.6
Tacoma	11.9	11.9	12.0	64.0	63.7	64.8	47.3	47.9	48.2

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	Total			Mining			Construction		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
West Virginia	687.2	699.9	700.6	24.5	23.3	23.1	29.7	30.9	30.0
Charleston	127.5	131.2	130.5	1.9	1.9	1.8	6.1	6.4	6.0
Huntington-Ashland	117.5	119.3	120.1	1.6	1.3	1.2	4.9	5.5	5.6
Parkersburg-Marietta	67.1	68.2	68.9	.3	.3	.3	4.0	3.9	3.9
Wheeling	62.7	65.1	65.2	1.6	1.6	1.6	1.9	2.1	2.0
Wisconsin	2,569.7	2,634.2	2,643.0	1.9	2.0	1.9	90.9	96.4	95.9
Appleton-Oshkosh-Neenah	186.6	192.9	192.6	(1)	(1)	(1)	9.3	10.0	9.9
Eau Claire	69.7	71.0	72.6	(1)	(1)	(1)	2.1	2.3	2.2
Green Bay	131.3	133.2	132.6	(1)	(1)	(1)	5.7	5.7	5.6
Janesville-Beloit	67.0	68.9	68.9	(1)	(1)	(1)	2.5	2.5	2.5
Kenosha	49.1	50.6	50.6	(1)	(1)	(1)	1.8	1.9	1.8
La Crosse	66.8	66.9	67.7	(1)	(1)	(1)	2.1	2.2	2.2
Madison	261.2	266.7	268.2	(1)	(1)	(1)	10.6	11.6	11.6
Milwaukee-Waukesha	808.1	829.4	832.4	(1)	(1)	(1)	26.3	28.4	28.5
Racine	78.2	81.2	81.5	(1)	(1)	(1)	2.5	2.8	2.8
Sheboygan	56.0	58.0	57.4	(1)	(1)	(1)	2.1	2.2	2.1
Wausau	61.9	65.0	64.3	(1)	(1)	(1)	2.5	2.7	2.7
Wyoming	212.3	214.2	213.9	15.8	16.6	16.5	11.6	12.3	12.4
Casper	29.1	29.7	29.5	1.8	2.1	2.0	1.5	1.5	1.5
Puerto Rico	976.1	955.7	954.5	1.1	1.1	1.1	57.1	52.7	53.7
Caguas	65.7	65.0	64.9	(1)	(1)	(1)	3.1	2.9	3.0
Mayaguez	68.3	67.3	67.4	(1)	(1)	(1)	3.6	4.5	4.3
Ponce	76.1	75.0	75.2	(1)	(1)	(1)	5.2	4.8	4.8
San Juan-Bayamon	612.1	599.7	602.1	.6	.6	.6	39.4	35.7	37.1
Virgin Islands	41.7	41.2	41.9	(1)	(1)	(1)	2.0	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		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
West Virginia	80.6	82.6	82.4	38.1	38.4	38.3	156.8	160.0	159.8
Charleston	9.9	10.4	10.2	9.2	9.4	9.3	30.7	31.1	30.8
Huntington-Ashland	17.3	16.9	17.0	6.6	6.7	6.6	30.5	30.6	30.8
Parkersburg-Marietta	13.0	13.3	13.3	2.6	2.5	2.6	16.7	16.9	16.9
Wheeling	5.7	6.0	6.0	2.6	2.8	2.9	16.1	16.8	16.6
Wisconsin	593.8	614.1	612.3	120.7	122.0	122.1	581.1	596.1	591.9
Appleton-Oshkosh-Neenah	57.9	58.6	58.3	7.2	7.4	7.3	39.2	41.5	41.3
Eau Claire	11.6	12.7	12.7	3.5	3.5	3.5	19.0	19.8	20.0
Green Bay	27.5	28.3	28.2	9.5	9.9	9.8	30.5	31.5	30.9
Janesville-Beloit	20.8	21.7	21.7	2.5	2.5	2.6	15.3	15.7	15.5
Kenosha	11.0	11.6	11.6	1.9	2.1	2.1	12.0	11.8	11.5
La Crosse	11.2	11.9	11.8	2.9	2.7	2.9	18.1	17.7	17.8
Madison	28.7	29.6	29.7	9.1	9.4	9.5	55.5	56.2	55.4
Milwaukee-Waukesha	173.8	178.2	178.0	39.2	40.1	40.1	175.3	179.5	178.0
Racine	25.1	26.0	25.9	2.5	2.3	2.3	15.8	16.1	15.8
Sheboygan	23.1	23.9	23.6	1.7	1.8	1.7	10.2	10.6	10.5
Wausau	17.3	18.7	18.0	3.3	3.4	3.4	15.1	16.2	15.9
Wyoming	10.3	10.8	10.5	13.7	13.5	13.5	49.5	50.0	49.4
Casper	1.5	1.5	1.5	1.7	1.7	1.7	8.2	8.3	8.2
Puerto Rico	152.1	143.7	145.0	25.9	26.6	26.6	194.9	197.4	193.9
Caguas	16.0	15.1	15.8	.8	.7	.7	14.2	15.4	15.0
Mayaguez	18.5	17.4	17.4	.7	.6	.7	11.5	11.7	11.5
Ponce	10.4	9.9	9.9	2.4	2.3	2.3	13.1	13.3	13.0
San Juan-Bayamon	70.6	65.5	66.0	20.1	20.8	20.8	129.4	129.9	128.2
Virgin Islands	2.2	2.3	2.4	2.4	2.3	2.3	9.8	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		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
West Virginia	27.6	28.0	27.9	191.9	199.7	200.5	138.0	137.0	138.6
Charleston	7.3	7.7	7.6	38.9	40.7	40.7	23.5	23.6	24.1
Huntington-Ashland	3.7	3.9	3.9	31.7	34.6	34.8	21.2	19.8	20.2
Parkersburg-Marietta	2.5	2.6	2.6	17.5	19.3	19.7	10.5	9.4	9.6
Wheeling	2.8	2.9	2.9	21.9	23.0	23.0	10.1	9.9	10.2
Wisconsin	138.3	141.0	141.1	650.6	676.9	681.9	392.2	385.7	396.0
Appleton-Oshkosh-Neenah	9.2	9.8	9.6	41.8	43.8	44.0	21.9	21.8	22.2
Eau Claire	2.4	2.6	2.5	18.6	19.4	19.5	12.5	10.8	12.1
Green Bay	9.6	9.4	9.4	32.6	32.3	32.5	15.9	15.9	16.1
Janesville-Beloit	1.8	1.9	1.9	15.6	15.8	15.9	8.4	8.7	8.9
Kenosha	1.6	1.7	1.7	13.0	13.4	13.6	7.9	8.1	8.2
La Crosse	2.3	2.5	2.6	19.7	20.0	20.3	10.5	9.8	10.2
Madison	20.8	21.5	21.6	65.6	67.9	68.2	70.9	70.4	72.2
Milwaukee-Waukesha	56.9	58.4	58.4	246.5	255.8	258.6	90.2	89.0	90.7
Racine	2.2	2.4	2.3	20.6	22.5	22.9	9.4	9.2	9.6
Sheboygan	2.1	2.2	2.2	10.7	11.1	10.9	6.2	6.2	6.3
Wausau	4.7	4.8	4.8	11.6	11.9	11.9	7.5	7.3	7.6
Wyoming	7.9	8.1	8.2	45.0	45.3	45.3	58.5	57.6	58.1
Casper	1.2	1.2	1.2	7.9	7.9	8.0	5.3	5.5	5.4
Puerto Rico	45.8	46.1	45.5	192.4	188.5	188.8	306.8	299.6	299.9
Caguas	1.7	1.8	1.7	11.8	11.5	11.2	18.1	17.6	17.5
Mayaguez	2.0	2.0	1.9	10.8	10.4	10.8	21.2	20.7	20.8
Ponce	2.2	2.4	2.3	16.6	16.4	16.7	26.2	25.9	26.2
San Juan-Bayamon	36.1	35.9	35.6	130.5	128.4	131.2	185.4	182.9	182.6
Virgin Islands	1.8	1.9	1.9	10.0	10.5	10.8	13.5	13.2	13.5

¹ Combined with construction.
² Not available.
^P = preliminary.

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1997 benchmarks.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Total private		34.5	34.6	34.2	34.6	34.5	-	-	-	-	-
Goods-producing		40.8	41.2	40.9	40.8	40.8	-	-	-	-	-
Mining		45.6	45.7	45.0	44.0	43.3	-	-	-	-	-
Metal mining	10	45.2	45.1	43.8	44.2	-	-	-	-	-	-
Iron ores	101	46.7	48.6	46.2	45.3	-	-	-	-	-	-
Copper ores	102	46.5	46.1	44.8	45.2	-	-	-	-	-	-
Coal mining	12	46.7	46.4	45.2	45.4	-	-	-	-	-	-
Bituminous coal and lignite mining	122	46.9	46.5	45.4	45.4	-	-	-	-	-	-
Oil and gas extraction	13	45.5	45.4	45.2	43.0	-	-	-	-	-	-
Crude petroleum and natural gas	131	43.3	42.6	43.9	41.8	-	-	-	-	-	-
Oil and gas field services	138	46.7	46.8	45.9	43.6	-	-	-	-	-	-
Nonmetallic minerals, except fuels	14	45.1	46.4	44.6	45.3	-	-	-	-	-	-
Crushed and broken stone	142	45.7	48.0	45.7	46.7	-	-	-	-	-	-
Construction		37.5	38.4	37.4	37.9	37.9	-	-	-	-	-
General building contractors	15	37.4	38.0	37.0	37.6	-	-	-	-	-	-
Residential building construction	152	36.5	36.8	35.4	36.0	-	-	-	-	-	-
Operative builders	153	37.8	38.3	37.4	37.9	-	-	-	-	-	-
Nonresidential building construction	154	38.4	39.2	38.5	39.3	-	-	-	-	-	-
Heavy construction, except building	16	39.6	41.3	39.5	41.3	-	-	-	-	-	-
Highway and street construction	161	37.5	40.3	37.2	40.2	-	-	-	-	-	-
Heavy construction, except highway	162	40.2	41.6	40.2	41.7	-	-	-	-	-	-
Special trade contractors	17	37.1	37.8	37.1	37.3	-	-	-	-	-	-
Plumbing, heating, and air conditioning	171	38.5	38.9	39.2	38.6	-	-	-	-	-	-
Painting and paper hanging	172	35.4	36.5	35.5	36.1	-	-	-	-	-	-
Electrical work	173	39.4	39.8	39.6	39.5	-	-	-	-	-	-
Masonry, stonework, and plastering	174	34.5	35.5	34.5	35.2	-	-	-	-	-	-
Carpentry and floor work	175	34.9	35.4	34.7	34.6	-	-	-	-	-	-
Roofing, siding, and sheet metal work	176	31.5	33.2	30.6	32.7	-	-	-	-	-	-
Manufacturing		41.6	42.0	41.9	41.7	41.7	4.5	4.7	4.7	4.5	4.6
Durable goods		42.5	42.9	42.6	42.5	42.5	4.8	5.1	5.0	4.9	4.9
Lumber and wood products	24	40.2	40.7	40.2	40.5	40.8	3.9	4.1	3.9	4.0	-
Logging	241	40.4	40.2	38.3	40.0	-	5.2	5.5	4.6	5.6	-
Sawmills and planing mills	242	42.4	42.5	41.7	41.8	-	5.2	5.2	4.8	4.7	-
Sawmills and planing mills, general	2421	42.8	42.9	41.9	41.9	-	5.6	5.7	5.2	5.0	-
Hardwood dimension and flooring mills	2426	40.7	40.9	40.9	41.4	-	3.6	3.5	3.4	3.4	-
Millwork, plywood, and structural members	243	40.1	41.2	40.7	40.9	-	3.6	4.1	3.9	4.2	-
Millwork	2431	38.9	39.9	39.8	39.8	-	2.5	2.9	2.8	3.0	-
Wood kitchen cabinets	2434	38.9	40.8	40.7	41.3	-	3.5	4.3	4.4	5.1	-
Hardwood veneer and plywood	2435	42.5	42.5	42.7	42.1	-	5.3	5.4	5.1	5.1	-
Softwood veneer and plywood	2436	45.2	46.3	42.7	43.5	-	6.0	6.3	5.8	5.7	-
Wood containers	244	38.3	38.8	38.8	38.4	-	3.2	3.4	3.3	3.2	-
Wood buildings and mobile homes	245	36.5	37.1	37.4	38.1	-	1.7	1.9	2.2	2.0	-
Mobile homes	2451	36.3	37.1	37.4	37.9	-	1.6	1.8	2.1	2.0	-
Miscellaneous wood products	249	40.2	40.4	40.3	40.4	-	3.0	3.3	3.3	3.4	-
Furniture and fixtures	25	39.0	39.9	40.6	40.3	40.2	2.8	3.1	3.7	3.4	-
Household furniture	251	37.9	39.1	40.2	40.3	-	2.4	2.7	3.5	3.3	-
Wood household furniture	2511	37.7	39.2	40.2	40.4	-	2.3	2.8	2.8	3.0	-
Upholstered household furniture	2512	37.6	38.6	40.0	39.7	-	2.0	2.1	3.5	2.8	-
Metal household furniture	2514	39.5	40.8	41.5	43.6	-	3.8	3.8	7.0	6.8	-
Mattresses and bedspings	2515	38.4	39.5	40.1	40.0	-	2.8	3.5	3.8	3.5	-
Office furniture	252	40.1	40.7	42.3	40.7	-	3.0	3.2	4.4	3.8	-
Public building and related furniture	253	40.4	40.5	40.6	39.9	-	3.8	4.1	3.8	3.5	-
Partitions and fixtures	254	41.2	42.3	41.7	41.0	-	3.5	3.8	3.8	3.2	-
Miscellaneous furniture and fixtures	259	38.9	39.1	39.0	38.9	-	2.4	2.8	3.3	3.2	-

See footnotes at end of table.

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

B-15. Average hour and earning of production or nonsupervisory workers¹ on private nonfarm payroll by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Total private		\$12.14	\$12.17	\$12.59	\$12.63	\$12.66	\$418.83	\$421.08	\$430.58	\$437.00	\$436.77
Goods-producing		13.66	13.72	14.10	14.11	14.18	557.33	565.26	576.69	575.69	578.54
Mining		16.06	15.98	16.61	16.89	16.96	732.34	730.29	747.45	743.16	734.37
Metal mining		17.70	17.65	17.92	17.95	—	800.04	796.02	784.90	793.39	—
Iron ores	101	18.67	18.43	18.93	18.84	—	871.89	895.70	874.57	853.45	—
Copper ores	102	15.98	16.07	16.36	16.43	—	743.07	740.83	732.93	742.64	—
Coal mining		19.25	19.06	19.37	19.20	—	898.98	884.38	875.52	871.68	—
Bituminous coal and lignite mining	122	19.57	19.37	19.62	19.48	—	917.83	900.71	890.75	884.39	—
Oil and gas extraction		15.37	15.31	16.26	16.81	—	699.34	695.07	734.95	722.83	—
Crude petroleum and natural gas	131	20.81	20.85	22.48	22.46	—	901.07	888.21	986.87	938.83	—
Oil and gas field services	138	12.66	12.66	13.45	14.22	—	591.22	592.49	617.36	619.99	—
Nonmetallic minerals, except fuels		13.89	14.06	14.29	14.32	—	626.44	652.38	637.33	648.70	—
Crushed and broken stone	142	13.09	13.31	13.58	13.67	—	598.21	638.88	620.61	638.39	—
Construction		15.69	15.67	16.22	16.19	16.28	588.38	601.73	606.63	613.60	617.01
General building contractors	15	15.03	14.99	15.57	15.59	—	562.12	569.62	576.09	586.18	—
Residential building construction	152	13.98	13.90	14.61	14.61	—	510.27	511.52	517.19	525.96	—
Operative builders	153	14.75	14.86	15.19	15.24	—	557.55	569.14	568.11	577.60	—
Nonresidential building construction	154	16.02	16.00	16.46	16.50	—	615.17	627.20	633.71	648.45	—
Heavy construction, except building	16	15.08	15.01	15.29	15.30	—	597.17	619.91	603.96	631.89	—
Highway and street construction	161	14.78	14.56	14.78	14.56	—	554.25	586.77	549.82	585.31	—
Heavy construction, except highway	162	15.17	15.16	15.43	15.53	—	609.83	630.66	620.29	647.60	—
Special trade contractors	17	16.05	16.07	16.65	16.58	—	595.46	607.45	617.72	618.43	—
Plumbing, heating, and air conditioning	171	16.41	16.50	16.99	16.88	—	631.79	641.85	666.01	651.57	—
Painting and paper hanging	172	14.27	14.21	14.68	14.91	—	505.16	518.67	521.14	538.25	—
Electrical work	173	17.40	17.54	18.03	18.01	—	685.56	698.09	713.99	711.40	—
Masonry, stonework, and plastering	174	15.80	15.87	16.31	16.30	—	545.10	563.39	562.70	573.76	—
Carpentry and floor work	175	15.51	15.60	16.30	16.32	—	541.30	552.24	565.61	564.67	—
Roofing, siding, and sheet metal work	176	13.80	13.68	14.27	14.24	—	434.70	454.18	436.66	465.65	—
Manufacturing		13.02	13.08	13.41	13.42	13.48	541.63	549.36	561.88	559.61	562.12
Durable goods		13.58	13.64	13.97	13.97	14.03	577.15	585.16	595.12	593.73	596.28
Lumber and wood products	24	10.60	10.60	10.89	10.91	10.96	426.12	431.42	437.78	441.86	447.17
Logging	241	11.99	11.77	12.07	12.19	—	484.40	473.15	462.28	487.60	—
Sawmills and planing mills	242	10.82	10.80	11.03	10.97	—	458.77	459.00	459.95	458.55	—
Sawmills and planing mills, general	2421	11.21	11.19	11.44	11.41	—	479.79	480.05	479.34	478.08	—
Hardwood dimension and flooring mills	2426	9.26	9.23	9.44	9.29	—	376.88	377.51	386.10	384.61	—
Millwork, plywood, and structural members	243	10.71	10.74	10.98	11.06	—	429.47	442.49	446.89	452.35	—
Millwork	2431	10.67	10.75	10.96	10.99	—	415.06	428.93	436.21	437.40	—
Wood kitchen cabinets	2434	10.47	10.46	10.90	10.98	—	407.28	426.77	443.63	453.47	—
Hardwood veneer and plywood	2435	9.48	9.51	9.76	9.86	—	402.90	404.18	416.75	415.11	—
Softwood veneer and plywood	2436	12.88	12.85	13.20	13.33	—	582.18	594.96	563.64	579.86	—
Wood containers	244	8.28	8.32	8.61	8.63	—	317.12	322.82	334.07	331.39	—
Wood buildings and mobile homes	245	10.41	10.55	11.27	11.14	—	379.97	391.41	421.50	424.43	—
Mobile homes	2451	10.55	10.71	11.47	11.32	—	382.97	397.34	428.98	429.03	—
Miscellaneous wood products	249	10.12	10.15	10.37	10.36	—	406.82	410.06	417.91	418.54	—
Furniture and fixtures	25	10.34	10.43	10.75	10.76	10.82	403.26	416.16	436.45	433.63	434.96
Household furniture	251	9.78	9.85	10.16	10.16	—	370.66	385.14	408.43	409.45	—
Wood household furniture	2511	9.38	9.45	9.66	9.73	—	353.63	370.44	388.33	393.09	—
Upholstered household furniture	2512	10.44	10.48	10.85	10.86	—	392.54	404.53	434.00	431.14	—
Metal household furniture	2514	9.19	9.31	9.86	9.55	—	363.01	379.85	409.19	416.38	—
Mattresses and bedsprings	2515	10.53	10.58	10.77	10.73	—	404.35	417.91	431.88	429.20	—
Office furniture	252	11.33	11.51	11.67	11.64	—	454.33	468.46	493.64	473.75	—
Public building and related furniture	253	11.14	11.36	11.68	11.91	—	450.06	460.08	474.21	475.21	—
Partitions and fixtures	254	11.18	11.21	11.61	11.59	—	460.62	474.18	484.14	475.19	—
Miscellaneous furniture and fixtures	259	10.29	10.41	10.78	10.86	—	400.28	407.03	420.42	422.45	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Durable goods—Continued											
Stone, clay, and glass products	32	42.0	42.5	42.2	42.6	42.7	5.0	5.4	5.2	5.5	—
Flat glass	321	45.3	44.8	45.4	46.3	—	6.9	6.9	7.5	8.3	—
Glass and glassware, pressed or blown	322	42.3	42.0	42.5	42.4	—	4.8	4.7	4.4	4.6	—
Glass containers	3221	43.7	44.1	44.4	44.2	—	6.3	6.1	6.0	6.1	—
Pressed and blown glass, nec	3229	41.4	40.6	41.4	41.3	—	3.8	3.8	3.5	3.6	—
Products of purchased glass	323	41.3	41.4	41.7	42.0	—	4.0	4.0	4.6	4.6	—
Cement, hydraulic	324	45.9	45.9	46.6	47.2	—	6.7	6.7	7.3	7.9	—
Structural clay products	325	42.0	42.3	42.0	42.0	—	4.7	4.7	4.3	4.5	—
Pottery and related products	326	41.3	41.1	41.1	41.6	—	4.2	4.3	4.4	4.9	—
Concrete, gypsum, and plaster products	327	41.5	43.0	41.7	42.7	—	5.4	6.3	5.6	6.3	—
Concrete block and brick	3271	44.4	45.4	44.5	44.9	—	6.5	7.3	6.9	7.5	—
Concrete products, nec	3272	42.0	42.7	42.5	43.0	—	5.0	5.3	5.7	6.0	—
Ready-mixed concrete	3273	39.6	42.0	39.4	41.2	—	5.0	6.4	4.7	5.9	—
Misc. nonmetallic mineral products	329	42.5	42.6	43.6	42.7	—	5.2	5.3	5.4	5.1	—
Abrasive products	3291	42.5	42.9	42.8	42.5	—	3.6	4.0	3.8	3.4	—
Asbestos products	3292	45.5	46.5	46.4	46.4	—	6.3	7.7	6.2	6.5	—
Primary metal industries	33	44.6	44.8	45.4	44.7	44.5	6.4	6.6	6.8	6.5	—
Blast furnaces and basic steel products	331	44.4	44.7	46.1	45.2	45.2	6.1	6.2	6.8	6.7	—
Blast furnaces and steel mills	3312	44.8	44.9	46.8	45.7	—	6.3	6.4	7.0	7.0	—
Steel pipe and tubes	3317	44.4	44.6	45.9	45.2	—	6.3	6.3	7.6	7.0	—
Iron and steel foundries	332	45.9	46.4	45.6	45.2	—	6.8	7.2	6.6	6.4	—
Gray and ductile iron foundries	3321	46.3	47.0	46.0	45.5	—	7.6	8.0	7.1	7.0	—
Malleable iron foundries	3322	46.9	49.1	49.6	50.2	—	7.7	8.8	7.5	6.5	—
Steel foundries, nec	3325	44.6	44.2	45.0	44.1	—	5.1	5.4	6.5	5.5	—
Primary nonferrous metals	333	43.6	43.9	44.3	44.1	—	5.9	5.8	6.0	6.0	—
Primary aluminum	3334	43.2	43.6	44.5	44.6	—	5.9	5.6	5.9	6.2	—
Nonferrous rolling and drawing	335	44.7	44.9	45.9	44.8	—	7.4	7.5	7.9	7.3	—
Copper rolling and drawing	3351	44.5	44.1	45.4	43.1	—	7.9	8.4	7.9	6.8	—
Aluminum sheet, plate, and foil	3353	47.1	47.8	48.0	46.9	—	7.8	7.7	10.3	9.4	—
Nonferrous wire drawing and insulating	3357	44.5	44.6	45.2	44.5	—	7.0	7.2	7.9	7.2	—
Nonferrous foundries (castings)	336	43.6	43.5	43.5	43.3	—	5.4	5.2	5.3	5.1	—
Aluminum foundries	3365	43.7	43.1	42.4	42.6	—	5.6	5.3	4.8	4.8	—
Fabricated metal products	34	42.3	42.5	42.6	42.3	42.3	4.7	4.9	5.0	4.8	—
Metal cans and shipping containers	341	42.5	42.9	43.8	43.6	—	5.7	6.1	5.6	6.2	—
Metal cans	3411	42.7	43.2	44.2	43.8	—	5.5	6.2	5.6	6.1	—
Cutlery, handtools, and hardware	342	41.7	42.5	42.4	42.1	—	4.0	4.3	4.5	4.2	—
Hand and edge tools, and blades and handsaws	3423,5	41.6	41.3	43.4	43.0	—	3.7	3.7	4.8	4.8	—
Hardware, nec	3429	41.7	43.0	42.2	41.9	—	4.1	4.7	4.6	4.2	—
Plumbing and heating, except electric	343	41.8	42.2	41.7	41.0	—	3.9	4.0	3.8	3.3	—
Plumbing fixture fittings and trim	3432	42.6	42.3	41.8	41.3	—	4.0	3.5	4.7	4.0	—
Heating equipment, except electric	3433	39.6	40.1	40.9	39.2	—	2.7	2.9	2.8	2.3	—
Fabricated structural metal products	344	41.3	41.5	42.0	41.4	—	4.1	4.3	4.6	4.2	—
Fabricated structural metal	3441	42.3	42.7	43.0	42.3	—	5.3	5.9	5.9	5.5	—
Metal doors, sash, and trim	3442	38.8	39.5	40.7	39.0	—	2.6	2.7	2.9	2.4	—
Fabricated plate work (boiler shops)	3443	43.5	43.3	43.6	43.4	—	5.3	5.5	5.8	5.3	—
Sheet metal work	3444	40.8	41.0	40.9	41.0	—	3.7	3.7	4.0	3.9	—
Architectural metal work	3446	40.8	40.6	41.7	41.3	—	3.6	3.4	4.2	4.0	—
Screw machine products, bolts, etc	345	44.3	44.2	44.5	44.6	—	6.0	6.1	6.6	6.4	—
Screw machine products	3451	43.2	43.0	43.4	43.0	—	5.1	5.3	5.9	5.7	—
Bolts, nuts, rivets, and washers	3452	45.6	45.6	45.7	46.6	—	7.1	7.1	7.4	7.2	—
Metal forgings and stampings	346	43.9	44.0	43.4	43.3	—	5.9	6.0	5.7	5.7	—
Iron and steel forgings	3462	45.7	45.7	45.9	45.7	—	6.7	7.2	7.1	7.0	—
Automotive stampings	3465	44.7	45.1	43.9	43.7	—	6.6	6.5	5.9	5.8	—
Metal stampings, nec	3469	41.7	41.8	41.5	41.4	—	4.4	4.7	4.6	4.7	—
Metal services, nec	347	41.6	41.5	41.4	41.8	—	4.6	4.7	4.9	4.8	—
Plating and polishing	3471	41.4	41.1	40.7	41.2	—	4.4	4.5	4.5	4.4	—
Metal coating and allied services	3479	42.0	42.2	42.6	42.7	—	4.9	5.1	5.7	5.6	—
Ordnance and accessories, nec	348	40.2	40.5	40.2	40.6	—	3.1	3.4	3.4	3.8	—
Ammunition, except for small arms, nec	3483	41.1	40.6	41.6	41.6	—	2.8	2.7	3.5	3.8	—
Misc. fabricated metal products	349	42.4	42.6	43.1	42.7	—	4.4	4.6	4.8	4.5	—
Valves and pipe fittings, nec	3494	42.1	42.4	41.9	42.1	—	4.3	4.3	4.0	4.2	—
Misc. fabricated wire products	3496	40.5	40.8	41.3	40.5	—	3.5	3.5	3.9	3.1	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Durable goods—Continued											
Stone, clay, and glass products	32	\$13.05	\$13.03	\$13.39	\$13.46	\$13.48	\$548.10	\$553.78	\$565.06	\$573.40	\$575.60
Flat glass	321	18.22	18.42	19.23	19.45	—	825.37	825.22	873.04	900.54	—
Glass and glassware, pressed or blown	322	14.75	14.87	15.16	15.26	—	623.93	624.54	644.30	647.02	—
Glass containers	3221	15.57	15.52	16.02	16.07	—	680.41	684.43	711.29	710.29	—
Pressed and blown glass, nec	3229	14.18	14.42	14.61	14.73	—	587.05	585.45	604.85	608.35	—
Products of purchased glass	323	12.07	12.04	12.20	12.16	—	498.49	498.46	508.74	510.72	—
Cement, hydraulic	324	17.41	17.50	18.28	18.45	—	799.12	803.25	851.85	870.84	—
Structural clay products	325	11.50	11.39	11.68	11.66	—	483.00	481.80	490.56	489.72	—
Pottery and related products	326	11.34	11.37	11.77	11.80	—	468.34	467.31	483.75	490.88	—
Concrete, gypsum, and plaster products	327	12.26	12.25	12.54	12.67	—	508.79	526.75	522.92	541.01	—
Concrete block and brick	3271	11.76	12.03	12.22	12.20	—	522.14	546.16	543.79	547.78	—
Concrete products, nec	3272	10.93	10.95	11.27	11.43	—	459.06	467.57	478.98	491.49	—
Ready-mixed concrete	3273	13.08	12.98	13.29	13.46	—	517.97	545.16	523.63	554.55	—
Misc. nonmetallic mineral products	329	13.52	13.51	13.86	13.95	—	574.60	575.53	604.30	595.67	—
Abrasive products	3291	11.61	11.59	12.37	12.36	—	493.43	497.21	529.44	525.30	—
Asbestos products	3292	15.97	15.97	15.16	15.59	—	726.64	742.61	703.42	723.38	—
Primary metal industries	33	15.09	15.16	15.47	15.45	15.52	673.01	679.17	702.34	690.62	690.64
Blast furnaces and basic steel products	331	17.73	17.86	18.30	18.31	18.33	787.21	798.34	843.63	827.61	828.52
Blast furnaces and steel mills	3312	19.25	19.45	19.93	20.00	—	862.40	873.31	932.72	914.00	—
Steel pipe and tubes	3317	14.13	14.05	14.31	14.23	—	627.37	626.63	656.83	643.20	—
Iron and steel foundries	332	13.66	13.72	14.08	14.00	—	626.99	636.61	642.05	632.80	—
Gray and ductile iron foundries	3321	14.49	14.54	14.93	14.85	—	670.89	683.38	686.78	675.68	—
Malleable iron foundries	3322	17.41	17.04	16.52	15.90	—	816.53	836.66	819.39	798.18	—
Steel foundries, nec	3325	12.34	12.47	13.01	13.00	—	550.36	551.17	585.45	573.30	—
Primary nonferrous metals	333	16.51	16.46	16.60	16.61	—	719.84	722.59	735.38	732.50	—
Primary aluminum	3334	16.60	16.35	16.45	16.44	—	717.12	712.86	732.03	733.22	—
Nonferrous rolling and drawing	335	14.50	14.55	14.75	14.70	—	648.15	653.30	677.03	658.56	—
Copper rolling and drawing	3351	14.35	14.58	14.91	14.87	—	638.58	642.98	676.91	640.90	—
Aluminum sheet, plate, and foil	3353	16.44	16.49	16.42	16.63	—	774.32	788.22	788.16	779.95	—
Nonferrous wire drawing and insulating	3357	14.61	14.65	15.12	15.03	—	650.15	653.39	683.42	668.84	—
Nonferrous foundries (castings)	336	12.14	12.14	12.25	12.33	—	529.30	528.09	532.88	533.89	—
Aluminum foundries	3365	11.46	11.44	11.73	11.67	—	500.80	493.06	497.35	497.14	—
Fabricated metal products	34	12.75	12.78	13.02	13.01	13.03	539.33	543.15	554.65	550.32	551.17
Metal cans and shipping containers	341	16.04	16.22	16.52	16.54	—	681.70	695.84	723.58	721.14	—
Metal cans	3411	17.05	17.22	17.55	17.58	—	728.04	743.90	775.71	770.00	—
Cutlery, handtools, and hardware	342	12.63	12.63	12.36	12.29	—	526.67	536.78	524.06	517.41	—
Hand and edge tools, and blades and handsaws	3423.5	11.84	11.86	12.12	12.05	—	492.54	489.82	526.01	518.15	—
Hardware, nec	3429	12.74	12.79	12.62	12.57	—	531.26	549.97	532.56	526.68	—
Plumbing and heating, except electric	343	11.53	11.53	11.86	11.89	—	481.95	486.57	494.56	487.49	—
Plumbing fixture fittings and trim	3432	11.25	11.20	11.67	11.51	—	479.25	473.76	487.81	475.36	—
Heating equipment, except electric	3433	11.59	11.55	11.63	11.87	—	458.96	463.16	475.67	465.30	—
Fabricated structural metal products	344	11.99	11.99	12.36	12.34	—	495.19	497.59	519.12	510.88	—
Fabricated structural metal	3441	11.94	12.04	12.53	12.59	—	505.06	514.11	538.79	532.56	—
Metal doors, sash, and trim	3442	10.22	10.18	10.49	10.45	—	396.54	402.11	426.94	407.55	—
Fabricated plate work (boiler shops)	3443	13.29	13.32	13.66	13.62	—	578.12	576.76	595.58	591.11	—
Sheet metal work	3444	12.27	12.22	12.62	12.58	—	500.62	501.02	516.16	515.78	—
Architectural metal work	3446	11.30	11.17	11.65	11.57	—	461.04	453.50	485.81	477.84	—
Screw machine products, bolts, etc	345	12.74	12.85	13.23	13.19	—	564.38	567.97	588.74	588.27	—
Screw machine products	3451	11.99	12.09	12.52	12.50	—	517.97	519.87	543.37	537.50	—
Bolts, nuts, rivets, and washers	3452	13.57	13.68	14.02	13.94	—	618.79	623.81	640.71	649.60	—
Metal forgings and stampings	346	15.07	15.13	15.40	15.40	—	661.57	665.72	668.36	666.82	—
Iron and steel forgings	3462	14.05	14.33	14.61	14.56	—	642.09	654.88	670.60	665.39	—
Automotive stampings	3465	17.38	17.49	17.78	17.78	—	776.89	788.80	780.54	776.99	—
Metal stampings, nec	3469	12.12	12.11	12.53	12.60	—	505.40	506.20	520.00	521.64	—
Metal services, nec	347	10.70	10.78	11.01	11.04	—	445.12	447.37	455.81	461.47	—
Plating and polishing	3471	10.52	10.62	10.93	10.89	—	435.53	436.48	444.85	448.67	—
Metal coating and allied services	3479	10.99	11.02	11.15	11.28	—	461.58	465.04	474.99	481.66	—
Ordnance and accessories, nec	348	14.85	14.79	15.53	15.46	—	596.97	599.00	624.31	627.68	—
Ammunition, except for small arms, nec	3483	15.94	15.76	16.16	16.29	—	655.13	639.86	672.26	677.66	—
Misc. fabricated metal products	349	12.12	12.14	12.38	12.37	—	513.89	517.16	533.58	528.20	—
Valves and pipe fittings, nec	3494	12.38	12.30	12.62	12.59	—	521.20	521.52	528.78	530.04	—
Misc. fabricated wire products	3496	10.84	10.81	10.87	10.88	—	439.02	441.05	448.93	440.64	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Durable goods—Continued											
Industrial machinery and equipment	35	43.5	43.8	43.6	43.5	43.5	5.4	5.6	5.6	5.5	—
Engines and turbines	351	44.2	43.3	45.5	44.5	—	5.5	5.0	6.4	5.7	—
Turbines and turbine generator sets	3511	42.1	42.6	42.6	41.7	—	4.3	4.5	4.3	3.6	—
Internal combustion engines, nec	3519	45.0	43.6	46.6	45.5	—	5.9	5.2	7.2	6.5	—
Farm and garden machinery	352	43.3	44.0	43.0	43.2	—	5.4	5.7	5.0	5.1	—
Farm machinery and equipment	3523	43.6	44.4	42.8	43.7	—	5.8	6.2	4.8	5.3	—
Construction and related machinery	353	44.3	44.7	44.7	44.4	—	5.7	6.1	6.2	6.1	—
Construction machinery	3531	44.2	44.4	44.6	44.4	—	5.5	5.8	5.9	5.9	—
Mining machinery	3532	44.2	44.6	42.8	42.1	—	5.4	6.3	4.5	4.1	—
Oil and gas field machinery	3533	47.4	49.1	49.1	47.8	—	8.4	9.8	9.8	9.3	—
Conveyors and conveying equipment	3535	42.9	42.8	42.1	42.5	—	5.4	5.2	4.9	4.9	—
Industrial trucks and tractors	3537	41.4	41.6	41.7	41.6	—	3.8	3.8	3.9	4.0	—
Metalworking machinery	354	44.5	44.5	44.3	43.9	—	6.5	6.7	6.6	6.3	—
Machine tools, metal cutting types	3541	45.4	44.7	45.3	44.3	—	6.7	6.7	6.6	6.3	—
Machine tools, metal forming types	3542	46.6	46.2	45.8	45.5	—	6.8	6.8	8.3	7.0	—
Special dies, tools, jigs, and fixtures	3544	44.7	44.8	44.5	44.1	—	7.2	7.3	7.1	6.8	—
Machine tool accessories	3545	44.2	44.1	43.5	43.4	—	5.5	5.6	5.3	5.0	—
Power driven handtools	3546	41.1	41.7	41.7	41.6	—	3.6	3.9	3.5	3.7	—
Special industry machinery	355	43.0	43.7	43.4	43.0	—	5.0	5.5	5.4	5.1	—
Textile machinery	3552	41.4	41.6	42.0	41.5	—	3.3	3.6	3.9	3.7	—
Printing trades machinery	3555	41.3	42.0	43.2	41.8	—	4.0	4.4	5.7	4.7	—
Food products machinery	3556	42.2	42.2	43.1	42.3	—	4.5	4.8	4.9	4.2	—
General industrial machinery	356	43.3	43.5	43.5	43.4	—	5.1	5.3	5.4	5.1	—
Pumps and pumping equipment	3561	42.9	43.3	40.9	41.1	—	5.2	5.4	4.4	4.3	—
Ball and roller bearings	3562	44.8	45.0	44.6	44.5	—	6.3	6.7	6.8	6.6	—
Air and gas compressors	3563	43.3	43.8	43.0	42.8	—	5.1	5.8	5.1	5.1	—
Blowers and fans	3564	42.6	42.7	43.4	42.5	—	3.4	3.5	4.0	3.4	—
Speed changers, drives, and gears	3566	44.3	43.9	45.9	44.8	—	5.7	6.1	7.2	6.5	—
Power transmission equipment, nec	3568	42.5	42.7	43.8	44.4	—	5.3	5.3	5.4	5.9	—
Computer and office equipment	357	42.7	42.6	41.9	42.6	—	3.5	3.8	4.0	4.6	—
Electronic computers	3571	42.1	41.6	42.0	43.3	—	2.5	3.3	4.3	5.6	—
Computer terminals, calculators, and office machines, nec	3575,8,9	41.6	42.3	43.1	41.8	—	3.9	4.6	5.1	4.2	—
Refrigeration and service machinery	358	42.8	43.5	43.1	43.0	—	4.2	4.5	4.3	4.2	—
Refrigeration and heating equipment	3585	43.1	43.9	43.8	43.5	—	4.5	4.8	4.5	4.5	—
Misc. industrial and commercial machinery	359	43.3	43.5	43.5	43.3	—	5.9	6.0	6.1	6.0	—
Carburetors, pistons, rings, valves	3592	42.6	42.2	41.6	41.7	—	5.3	5.2	5.6	5.4	—
Scales, balances, and industrial machinery, nec	3596,9	43.2	43.4	43.5	43.3	—	5.9	6.0	6.1	6.0	—
Electronic and other electrical equipment	36	41.8	42.2	41.8	41.6	41.3	3.8	4.2	4.1	3.9	—
Electric distribution equipment	361	41.4	41.5	40.9	40.4	—	3.5	3.9	4.4	3.6	—
Transformers, except electronic	3612	41.5	41.9	42.4	41.1	—	2.7	3.4	4.1	3.0	—
Switchgear and switchboard apparatus	3613	41.2	41.1	39.5	39.8	—	4.3	4.4	4.6	4.3	—
Electrical industrial apparatus	362	41.4	41.9	42.1	41.4	—	3.6	4.0	4.1	3.7	—
Motors and generators	3621	41.6	42.0	42.1	41.1	—	3.7	3.9	4.1	3.7	—
Relays and industrial controls	3625	40.2	41.1	41.2	41.0	—	3.0	4.2	3.9	3.5	—
Household appliances	363	39.5	40.1	41.5	41.7	—	2.3	3.1	3.0	3.4	—
Household refrigerators and freezers	3632	37.9	38.1	40.7	41.6	—	1.9	2.3	2.1	3.8	—
Household laundry equipment	3633	38.4	41.2	44.3	42.7	—	0.9	3.3	4.0	2.7	—
Electric housewares and fans	3634	40.3	40.5	39.8	40.2	—	1.9	2.8	2.1	2.3	—
Electric lighting and wiring equipment	364	41.7	42.2	42.0	41.4	—	4.1	4.3	4.1	3.9	—
Electric lamps	3641	44.2	44.3	43.7	42.9	—	5.6	5.6	4.6	4.0	—
Current-carrying wiring devices	3643	41.2	42.2	42.6	41.4	—	4.3	4.7	4.8	4.1	—
Noncurrent-carrying wiring devices	3644	41.7	41.9	43.9	42.8	—	3.0	3.3	4.0	3.1	—
Residential lighting fixtures	3645	39.9	38.9	38.3	38.2	—	3.5	2.5	2.8	3.2	—
Household audio and video equipment	365	40.2	42.1	40.0	40.0	—	3.5	4.2	4.3	4.1	—
Household audio and video equipment	3651	40.8	41.7	39.4	38.7	—	2.8	3.3	3.1	3.0	—
Communications equipment	366	41.9	42.3	41.8	41.8	—	3.2	3.7	3.3	3.3	—
Telephone and telegraph apparatus	3661	43.5	44.4	44.0	43.6	—	3.4	4.2	3.4	3.6	—
Electronic components and accessories	367	42.6	42.8	42.0	41.8	—	4.3	4.7	4.3	4.2	—
Electron tubes	3671	40.9	40.2	41.5	40.1	—	4.7	4.3	3.7	3.6	—
Semiconductors and related devices	3674	43.4	43.3	43.1	42.8	—	4.5	4.7	5.1	5.0	—
Electronic components, nec	3679	42.0	42.5	41.6	41.5	—	3.7	4.2	4.0	3.8	—
Misc. electrical equipment and supplies	369	41.9	42.0	42.5	42.1	—	4.4	4.1	4.5	4.4	—
Storage batteries	3691	42.5	41.8	41.7	40.9	—	4.4	3.9	4.1	3.7	—
Engine electrical equipment	3694	42.2	42.2	43.0	42.2	—	4.7	4.3	5.3	5.2	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Durable goods—Continued											
Industrial machinery and equipment	35	\$13.88	\$13.93	\$14.33	\$14.35	\$14.35	\$603.78	\$610.13	\$624.79	\$624.23	\$624.23
Engines and turbines	351	16.51	16.77	16.92	16.67	—	729.74	726.14	769.86	741.82	—
Turbines and turbine generator sets	3511	18.69	19.09	19.71	19.57	—	786.85	813.23	839.65	816.07	—
Internal combustion engines, nec	3519	15.79	15.97	15.99	15.72	—	710.55	696.29	745.13	715.26	—
Farm and garden machinery	352	13.43	13.35	13.76	13.87	—	581.52	587.40	591.68	599.18	—
Farm machinery and equipment	3523	14.54	14.55	14.52	14.74	—	633.94	646.02	621.46	644.14	—
Construction and related machinery	353	13.38	13.48	13.58	13.56	—	592.73	602.56	607.03	604.06	—
Construction machinery	3531	13.77	13.91	14.00	13.95	—	608.63	617.60	624.40	619.38	—
Mining machinery	3532	14.42	14.58	14.39	14.44	—	637.36	650.27	615.89	607.92	—
Oil and gas field machinery	3533	13.14	13.23	13.31	13.30	—	622.84	649.59	653.52	635.74	—
Conveyors and conveying equipment	3535	13.36	13.47	13.81	13.80	—	573.14	576.52	581.40	586.50	—
Industrial trucks and tractors	3537	12.28	12.22	12.48	12.51	—	508.39	508.35	520.42	520.42	—
Metalworking machinery	354	14.81	14.83	15.21	15.24	—	659.05	659.94	673.80	669.04	—
Machine tools, metal cutting types	3541	14.57	14.66	14.85	14.97	—	661.48	655.30	672.71	663.17	—
Machine tools, metal forming types	3542	15.12	15.13	15.74	15.55	—	704.59	699.01	720.89	707.53	—
Special dies, tools, jigs, and fixtures	3544	15.50	15.53	16.00	15.97	—	692.85	695.74	712.00	704.28	—
Machine tool accessories	3545	13.05	13.05	13.24	13.38	—	576.81	575.51	575.94	580.69	—
Power driven handtools	3546	12.32	12.22	12.27	12.38	—	506.35	509.57	511.66	515.01	—
Special industry machinery	355	14.46	14.47	15.01	14.99	—	621.78	632.34	651.43	644.57	—
Textile machinery	3552	12.55	12.61	13.04	13.11	—	519.57	524.58	547.68	544.07	—
Printing trades machinery	3555	15.54	15.45	16.18	15.91	—	641.80	648.90	698.98	665.04	—
Food products machinery	3556	14.02	14.10	14.55	14.46	—	591.64	595.02	627.11	611.66	—
General industrial machinery	356	13.66	13.70	14.02	13.96	—	591.48	595.95	609.87	605.86	—
Pumps and pumping equipment	3561	14.64	14.45	14.75	14.72	—	628.06	625.69	603.28	604.99	—
Ball and roller bearings	3562	14.80	15.04	15.37	15.14	—	663.04	676.80	665.50	673.73	—
Air and gas compressors	3563	14.02	14.16	14.79	14.69	—	607.07	620.21	635.97	628.73	—
Blowers and fans	3564	11.33	11.31	11.73	11.54	—	482.66	482.94	509.08	490.45	—
Speed changers, drives, and gears	3566	14.36	14.48	14.94	14.85	—	636.15	635.67	685.75	665.28	—
Power transmission equipment, nec	3568	13.15	13.21	13.39	13.46	—	558.88	564.07	586.48	597.62	—
Computer and office equipment	357	14.08	14.13	14.75	15.05	—	601.22	601.94	618.03	641.13	—
Electronic computers	3571	15.35	15.46	16.02	16.42	—	646.24	643.14	672.84	710.99	—
Computer terminals, calculators, and office machines, nec	3575,8,9	13.45	13.54	13.63	13.72	—	559.52	572.74	587.45	573.50	—
Refrigeration and service machinery	358	12.42	12.64	13.04	13.05	—	531.58	549.84	562.02	561.15	—
Refrigeration and heating equipment	3585	12.72	12.97	13.39	13.47	—	548.23	569.38	586.48	585.95	—
Misc. industrial and commercial machinery	359	13.53	13.53	14.03	14.02	—	585.85	588.56	610.31	607.07	—
Carburetors, pistons, rings, valves	3592	14.24	14.32	14.54	14.49	—	606.62	604.30	604.86	604.23	—
Scales, balances, and industrial machinery, nec	3596,9	13.32	13.31	13.87	13.86	—	575.42	577.65	603.35	600.14	—
Electronic and other electrical equipment	36	12.42	12.49	13.00	12.97	13.03	519.16	527.08	543.40	539.55	538.14
Electric distribution equipment	361	12.43	12.52	12.84	12.99	—	514.60	519.58	525.16	524.80	—
Transformers, except electronic	3612	11.37	11.54	11.92	12.07	—	471.86	483.53	505.41	496.08	—
Switchgear and switchboard apparatus	3613	13.50	13.48	13.74	13.86	—	556.20	554.03	542.73	551.63	—
Electrical industrial apparatus	362	11.95	12.06	12.47	12.40	—	494.73	505.31	524.99	513.36	—
Motors and generators	3621	11.23	11.27	11.52	11.48	—	467.17	473.34	484.99	471.83	—
Relays and industrial controls	3625	13.28	13.51	14.23	14.03	—	533.86	555.26	586.28	575.23	—
Household appliances	363	12.18	12.34	12.32	12.33	—	481.11	494.83	511.28	514.16	—
Household refrigerators and freezers	3632	13.63	13.82	13.17	13.43	—	516.58	526.54	536.02	558.69	—
Household laundry equipment	3633	13.94	14.35	14.30	14.18	—	535.30	591.22	633.49	605.49	—
Electric housewares and fans	3634	9.88	10.09	10.70	10.50	—	398.16	408.65	425.86	422.10	—
Electric lighting and wiring equipment	364	12.62	12.64	12.80	12.76	—	526.25	533.41	537.60	528.26	—
Electric lamps	3641	15.24	15.38	16.25	16.04	—	673.61	681.33	710.13	688.12	—
Current-carrying wiring devices	3643	12.71	12.75	13.06	12.92	—	523.65	538.05	556.36	534.89	—
Noncurrent-carrying wiring devices	3644	11.54	11.45	11.47	11.37	—	481.22	479.76	503.53	486.64	—
Residential lighting fixtures	3645	9.07	9.03	8.97	9.18	—	361.89	351.27	343.55	350.68	—
Household audio and video equipment	365	10.54	10.62	11.53	11.38	—	423.71	447.10	461.20	455.20	—
Household audio and video equipment	3651	10.32	10.45	11.15	10.98	—	421.06	435.77	439.31	424.93	—
Communications equipment	366	13.57	13.76	13.81	13.81	—	568.58	582.05	577.26	577.26	—
Telephone and telegraph apparatus	3661	14.73	15.09	14.58	14.63	—	640.76	670.00	641.52	637.87	—
Electronic components and accessories	367	12.07	12.15	13.02	12.96	—	514.18	520.02	546.84	541.73	—
Electron tubes	3671	13.76	13.80	14.91	14.90	—	562.78	554.76	618.77	597.49	—
Semiconductors and related devices	3674	15.34	15.43	17.25	17.16	—	665.76	668.12	743.48	734.45	—
Electronic components, nec	3679	10.30	10.42	10.61	10.62	—	432.60	442.85	441.38	440.73	—
Misc. electrical equipment and supplies	369	13.53	13.42	13.99	14.02	—	566.91	563.64	594.58	590.24	—
Storage batteries	3691	14.78	14.53	14.95	14.70	—	628.15	607.35	623.42	601.23	—
Engine electrical equipment	3694	13.74	13.64	14.44	14.64	—	579.83	575.61	620.92	617.81	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Durable goods—Continued											
Transportation equipment	37	44.3	45.0	43.8	43.5	43.7	6.3	6.7	6.0	5.8	—
Motor vehicles and equipment	371	45.0	45.8	43.8	43.5	44.0	6.7	7.2	6.0	5.9	—
Motor vehicles and car bodies	3711	45.4	46.2	42.0	42.4	—	7.0	7.5	5.3	5.5	—
Truck and bus bodies	3713	43.3	44.3	44.0	43.9	—	5.0	5.5	6.5	6.5	—
Motor vehicle parts and accessories	3714	45.4	46.2	44.9	44.4	—	7.0	7.6	6.6	6.4	—
Truck trailers	3715	40.0	41.1	42.7	41.2	—	3.3	3.7	5.0	4.1	—
Aircraft and parts	372	44.5	44.6	45.0	44.5	—	7.2	7.2	6.8	6.5	—
Aircraft	3721	44.1	44.2	45.1	44.3	—	7.5	7.5	6.9	6.3	—
Aircraft engines and engine parts	3724	44.5	45.0	44.6	44.5	—	6.4	6.9	6.1	6.2	—
Aircraft parts and equipment, nec	3728	45.0	44.9	45.0	44.8	—	7.3	7.1	7.2	7.0	—
Ship and boat building and repairing	373	41.5	42.7	43.2	42.4	—	4.2	4.4	5.8	4.5	—
Ship building and repairing	3731	43.1	44.4	45.1	44.5	—	5.1	5.2	7.3	5.6	—
Boat building and repairing	3732	39.1	40.0	40.4	39.5	—	2.8	3.2	3.5	3.0	—
Railroad equipment	374	43.9	43.9	44.7	43.8	—	4.8	4.6	5.1	4.5	—
Guided missiles, space vehicles, and parts	376	43.4	43.6	43.3	42.9	—	4.5	4.4	4.4	4.5	—
Guided missiles and space vehicles	3761	43.8	43.9	43.3	42.6	—	4.7	4.4	4.0	4.2	—
Misc. transportation equipment	379	40.4	40.4	40.3	40.7	—	3.4	3.7	3.4	3.5	—
Travel trailers and campers	3792	38.0	38.0	38.0	38.7	—	1.7	2.3	2.0	2.0	—
Instruments and related products	38	42.0	42.2	41.8	42.0	41.8	3.8	4.1	3.7	3.8	—
Search and navigation equipment	381	43.9	43.7	43.1	43.6	—	4.1	4.1	4.0	4.2	—
Measuring and controlling devices	382	42.1	42.3	41.9	42.1	—	3.5	3.8	3.5	3.7	—
Environmental controls	3822	42.0	41.8	42.3	42.2	—	3.6	3.6	4.4	4.5	—
Process control instruments	3823	42.0	42.3	41.8	42.1	—	3.7	4.2	3.4	4.0	—
Instruments to measure electricity	3825	41.7	41.8	40.9	42.2	—	3.2	3.4	2.5	2.6	—
Medical instruments and supplies	384	41.5	41.7	41.6	41.6	—	3.3	3.7	3.8	3.7	—
Surgical and medical instrument	3841	41.9	42.0	42.2	42.1	—	3.6	4.0	4.2	4.0	—
Surgical appliances and supplies	3842	40.9	40.7	40.7	40.9	—	3.2	3.5	3.6	3.7	—
Ophthalmic goods	385	40.3	40.3	40.9	41.9	—	2.5	2.3	2.4	2.9	—
Photographic equipment and supplies	386	43.4	43.6	42.0	42.2	—	8.2	8.5	4.5	4.5	—
Watches, clocks, watchcases, and parts	387	37.5	39.0	41.4	40.5	—	1.7	2.1	3.0	2.7	—
Miscellaneous manufacturing industries	39	40.1	40.3	39.9	40.2	40.5	3.0	3.2	2.8	3.1	—
Jewelry, silverware, and plated ware	391	38.3	39.1	38.2	39.0	—	1.9	2.4	1.7	2.3	—
Jewelry, precious metal	3911	37.5	38.4	37.3	38.4	—	1.8	2.4	1.5	2.2	—
Musical instruments	393	41.6	41.8	40.5	39.2	—	2.5	3.0	2.4	1.8	—
Toys and sporting goods	394	39.9	40.4	39.9	40.0	—	2.6	3.2	2.3	2.6	—
Dolls, games, toys, and children's vehicles	3942,4	37.7	38.0	38.1	38.9	—	1.6	1.9	1.7	1.7	—
Sporting and athletic goods, nec	3949	41.1	41.5	40.7	40.5	—	3.1	3.8	2.6	2.9	—
Pens, pencils, office, and art supplies	395	40.6	40.4	39.1	39.9	—	3.4	3.1	2.9	3.9	—
Costume jewelry and notions	396	39.4	39.9	39.3	39.0	—	2.8	2.8	2.0	2.0	—
Costume jewelry	3961	39.6	39.7	38.5	38.7	—	2.4	2.3	0.7	1.2	—
Miscellaneous manufactures	399	40.6	40.5	40.6	41.0	—	3.6	3.5	3.7	4.0	—
Signs and advertising specialties	3993	40.8	41.2	41.6	41.5	—	3.7	4.1	4.0	4.2	—
Nondurable goods		40.4	40.7	40.9	40.6	40.6	4.0	4.2	4.2	4.0	4.2
Food and kindred products	20	40.7	40.7	41.4	40.9	40.8	4.5	4.5	4.8	4.6	—
Meat products	201	39.7	39.7	41.0	40.1	—	3.7	3.7	4.6	4.2	—
Meat packing plants	2011	41.4	41.5	43.4	41.8	—	4.1	4.5	6.0	4.7	—
Sausages and other prepared meats	2013	40.5	40.8	41.6	41.2	—	4.3	5.0	5.6	5.2	—
Poultry slaughtering and processing	2015	38.5	38.1	39.3	38.7	—	3.3	2.8	3.5	3.6	—
Dairy products	202	42.1	42.2	41.4	41.4	—	4.7	5.0	4.5	4.5	—
Cheese, natural and processed	2022	41.7	41.7	40.2	40.2	—	4.0	4.5	3.7	3.6	—
Fluid milk	2026	42.4	42.0	41.9	41.3	—	4.8	4.7	4.9	4.5	—
Preserved fruits and vegetables	203	40.4	39.6	41.8	41.2	—	4.3	4.0	5.1	4.2	—
Canned specialties	2032	39.9	38.8	46.8	40.9	—	4.4	4.5	10.7	5.1	—
Canned fruits and vegetables	2033	39.4	39.3	40.5	39.5	—	3.1	3.4	4.3	3.5	—
Frozen fruits and vegetables	2037	40.0	39.3	40.9	41.6	—	3.8	3.9	4.3	4.3	—
Grain mill products	204	45.2	45.5	45.8	45.0	—	6.8	6.8	7.1	6.3	—
Flour and other grain mill products	2041	43.7	45.3	45.7	44.7	—	5.8	6.3	6.3	5.6	—
Prepared feeds, nec	2048	44.6	44.4	44.3	43.7	—	6.3	6.2	6.5	5.7	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Durable goods—Continued											
Transportation equipment	37	\$17.40	\$17.51	\$17.79	\$17.82	\$17.94	\$770.82	\$787.95	\$779.20	\$775.17	\$783.98
Motor vehicles and equipment	371	17.88	18.01	18.28	18.36	18.51	804.60	824.86	800.66	798.66	814.44
Motor vehicles and car bodies	3711	21.34	21.54	22.32	22.37	—	968.84	995.15	937.44	948.49	—
Truck and bus bodies	3713	15.62	15.26	16.09	16.15	—	676.35	676.02	707.96	708.99	—
Motor vehicle parts and accessories	3714	16.54	16.65	16.96	16.97	—	750.92	769.23	761.50	753.47	—
Truck trailers	3715	11.12	11.29	11.36	11.30	—	444.80	464.02	485.07	465.56	—
Aircraft and parts	372	18.68	18.80	19.00	18.97	—	831.26	838.48	855.00	844.17	—
Aircraft	3721	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Aircraft engines and engine parts	3724	18.13	18.36	18.78	18.76	—	806.79	826.20	837.59	834.82	—
Aircraft parts and equipment, nec	3728	16.54	16.62	16.81	16.76	—	744.30	746.24	756.45	750.85	—
Ship and boat building and repairing	373	13.20	13.33	13.52	13.22	—	547.80	569.19	584.06	560.53	—
Ship building and repairing	3731	14.65	14.83	14.98	14.55	—	631.42	658.45	675.60	647.48	—
Boat building and repairing	3732	10.71	10.83	11.16	11.09	—	418.76	433.20	450.86	438.06	—
Railroad equipment	374	16.83	16.83	17.07	17.19	—	738.84	738.84	763.03	752.92	—
Guided missiles, space vehicles, and parts	376	19.53	19.53	19.85	20.07	—	847.60	851.51	859.51	861.00	—
Guided missiles and space vehicles	3761	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Misc. transportation equipment	379	11.50	11.47	11.74	11.85	—	464.60	463.39	473.12	482.30	—
Travel trailers and campers	3792	11.30	11.31	11.81	11.89	—	429.40	429.78	448.78	460.14	—
Instruments and related products	38	13.39	13.47	13.68	13.71	13.77	562.38	568.43	571.82	575.82	575.59
Search and navigation equipment	381	16.73	16.81	17.48	17.28	—	734.45	734.60	753.39	753.41	—
Measuring and controlling devices	382	13.38	13.44	13.65	13.74	—	563.30	568.51	571.94	578.45	—
Environmental controls	3822	11.47	11.64	11.79	11.90	—	481.74	486.55	498.72	502.18	—
Process control instruments	3823	13.14	13.21	13.40	13.66	—	551.88	558.78	560.12	575.09	—
Instruments to measure electricity	3825	15.50	15.44	15.75	15.80	—	646.35	645.39	644.18	666.76	—
Medical instruments and supplies	384	12.31	12.42	12.79	12.79	—	510.87	517.91	532.06	532.06	—
Surgical and medical instrument	3841	11.68	11.60	12.18	12.08	—	489.39	487.20	514.00	508.57	—
Surgical appliances and supplies	3842	11.35	11.54	11.90	11.97	—	464.22	469.68	484.33	489.57	—
Ophthalmic goods	385	10.14	10.26	10.28	10.23	—	408.64	413.48	420.45	428.64	—
Photographic equipment and supplies	386	15.95	15.97	15.74	15.90	—	692.23	696.29	661.08	670.98	—
Watches, clocks, watchcases, and parts	387	9.61	9.86	10.29	10.31	—	360.38	384.54	426.01	417.56	—
Miscellaneous manufacturing industries	39	10.56	10.56	10.81	10.82	10.80	423.46	425.57	431.32	434.96	437.40
Jewelry, silverware, and plated ware	391	11.00	10.90	11.18	11.11	—	421.30	426.19	427.08	433.29	—
Jewelry, precious metal	3911	11.15	11.04	11.34	11.24	—	418.13	423.94	422.98	431.62	—
Musical instruments	393	10.55	10.75	10.77	10.96	—	438.88	449.35	436.19	429.63	—
Toys and sporting goods	394	9.95	10.06	10.35	10.31	—	397.01	406.42	412.97	412.40	—
Dolls, games, toys, and children's vehicles	3942,4	9.50	9.68	9.85	9.83	—	358.15	367.84	375.29	382.39	—
Sporting and athletic goods, nec	3949	10.17	10.23	10.57	10.53	—	417.99	424.55	430.20	426.47	—
Pens, pencils, office, and art supplies	395	10.97	10.99	11.16	11.24	—	445.38	444.00	436.36	448.48	—
Costume jewelry and notions	396	9.22	9.20	9.81	9.80	—	363.27	367.08	385.53	382.20	—
Costume jewelry	3961	7.90	7.97	8.82	8.89	—	312.84	316.41	339.57	344.04	—
Miscellaneous manufactures	399	10.97	10.90	11.08	11.11	—	445.38	441.45	449.85	455.51	—
Signs and advertising specialties	3993	11.39	11.36	11.70	11.92	—	464.71	468.03	486.72	494.68	—
Nondurable goods		12.19	12.25	12.57	12.57	12.64	492.48	498.58	514.11	510.34	513.18
Food and kindred products	20	11.32	11.40	11.67	11.65	11.73	460.72	463.98	483.14	476.49	478.58
Meat products	201	9.25	9.25	9.52	9.52	—	367.23	367.23	390.32	381.75	—
Meat packing plants	2011	9.98	9.98	10.23	10.18	—	413.17	414.17	443.98	425.52	—
Sausages and other prepared meats	2013	10.57	10.75	10.86	10.91	—	428.09	438.60	451.78	449.49	—
Poultry slaughtering and processing	2015	8.29	8.24	8.55	8.59	—	319.17	313.94	336.02	332.43	—
Dairy products	202	13.05	13.01	13.26	13.34	—	549.41	549.02	548.96	552.28	—
Cheese, natural and processed	2022	11.91	11.83	11.96	12.08	—	496.65	493.31	480.79	485.62	—
Fluid milk	2026	13.72	13.73	14.02	13.94	—	581.73	576.66	587.44	575.72	—
Preserved fruits and vegetables	203	10.88	11.02	11.27	11.20	—	439.55	436.39	471.09	461.44	—
Canned specialties	2032	13.66	13.97	14.66	14.39	—	545.03	542.04	686.09	588.55	—
Canned fruits and vegetables	2033	11.90	12.10	12.30	12.32	—	468.86	475.53	498.15	486.64	—
Frozen fruits and vegetables	2037	10.28	10.38	10.45	10.47	—	411.20	407.93	427.41	435.55	—
Grain mill products	204	14.11	14.21	14.77	14.65	—	637.77	646.56	676.47	659.25	—
Flour and other grain mill products	2041	12.33	12.34	12.61	12.68	—	538.82	559.00	576.28	566.80	—
Prepared feeds, nec	2048	11.15	11.16	11.68	11.53	—	497.29	495.50	517.42	503.86	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Nondurable goods—Continued											
Food and kindred products—Continued											
Bakery products	205	39.6	40.1	39.9	40.1	—	4.1	4.6	4.2	4.3	—
Bread, cake, and related products	2051	39.4	39.8	39.5	39.8	—	4.2	4.5	4.1	4.3	—
Cookies, crackers, and frozen bakery products, except bread	2052.3	40.1	40.8	40.6	40.6	—	3.9	4.9	4.2	4.2	—
Sugar and confectionery products	206	40.1	39.9	42.5	40.7	—	3.7	3.6	4.7	3.9	—
Raw cane sugar	2061	51.6	46.1	59.5	59.7	—	13.4	9.9	14.9	14.9	—
Cane sugar refining	2062	46.0	46.2	48.2	47.6	—	9.9	9.7	9.0	9.8	—
Beet sugar	2063	43.2	42.0	43.5	42.7	—	3.6	2.9	4.2	3.4	—
Candy and other confectionery products	2064	38.5	38.4	40.9	38.7	—	2.5	2.6	3.8	3.0	—
Fats and oils	207	42.6	42.4	43.1	42.4	—	5.8	5.8	6.3	5.6	—
Beverages	208	41.5	43.3	42.2	41.9	—	4.1	5.3	4.6	4.6	—
Malt beverages	2082	44.1	46.8	46.4	45.6	—	6.5	7.5	7.4	7.0	—
Bottled and canned soft drinks	2086	40.9	43.0	41.4	41.6	—	3.7	5.4	4.1	4.3	—
Misc. food and kindred products	209	40.8	40.1	39.1	40.1	—	6.3	5.3	4.6	5.6	—
Tobacco products	21	39.1	39.1	37.8	37.4	37.0	3.3	3.0	2.6	2.0	—
Cigarettes	211	39.1	39.1	37.5	36.7	—	4.0	3.3	3.1	1.8	—
Textile mill products	22	40.3	41.2	41.6	41.1	41.2	4.2	4.5	4.7	4.3	—
Broadwoven fabric mills, cotton	221	39.7	40.5	42.8	42.1	—	4.6	4.7	5.8	5.3	—
Broadwoven fabric mills, synthetics	222	40.1	40.8	41.9	41.3	—	4.4	4.7	5.0	4.8	—
Broadwoven fabric mills, wool	223	40.6	42.2	38.9	38.8	—	5.0	6.0	3.9	3.6	—
Narrow fabric mills	224	39.3	40.6	40.5	40.0	—	3.0	3.2	3.0	2.7	—
Knitting mills	225	38.9	40.0	39.9	39.6	—	3.1	3.5	3.4	3.2	—
Women's hosiery, except socks	2251	38.4	38.9	38.0	37.7	—	2.8	2.8	1.3	1.9	—
Hosiery, nec	2252	37.2	38.3	38.3	38.6	—	2.6	3.1	3.1	3.2	—
Knit outerwear mills	2253	38.5	39.8	40.1	39.8	—	2.5	3.0	3.3	2.9	—
Knit underwear mills	2254	38.2	39.3	40.3	38.0	—	2.4	2.5	2.2	1.4	—
Welt knit fabric mills	2257	42.3	43.7	39.7	39.7	—	5.6	6.1	4.5	4.4	—
Textile finishing, except wool	226	42.0	43.1	42.4	41.5	—	5.1	5.9	5.3	5.0	—
Finishing plants, cotton	2261	42.8	43.7	42.3	41.1	—	5.3	6.1	5.2	4.8	—
Finishing plants, synthetics	2262	41.7	42.1	43.2	43.0	—	4.9	5.1	5.6	5.6	—
Carpets and rugs	227	42.3	41.7	42.8	42.4	—	5.5	4.7	5.9	5.3	—
Yarn and thread mills	228	40.5	41.8	41.9	41.6	—	4.2	4.6	4.8	4.4	—
Yarn spinning mills	2281	41.3	42.4	42.4	42.5	—	4.5	4.9	5.1	4.8	—
Throwing and winding mills	2282	37.0	38.6	39.2	38.1	—	2.9	3.4	3.7	3.0	—
Miscellaneous textile goods	229	42.4	43.2	43.1	42.2	—	4.9	5.1	5.0	4.5	—
Apparel and other textile products	23	36.9	37.5	37.3	37.1	37.2	2.0	2.2	2.0	2.0	—
Men's and boys' suits and coats	231	37.2	37.4	37.1	36.7	—	1.5	1.5	1.2	1.0	—
Men's and boys' furnishings	232	36.2	36.7	36.6	36.2	—	1.3	1.4	1.4	1.2	—
Men's and boys' shirts	2321	35.5	35.9	36.1	36.4	—	1.2	1.4	1.5	1.4	—
Men's and boys' trousers and slacks	2325	35.9	36.4	36.5	35.3	—	1.2	1.3	1.3	0.9	—
Men's and boys' work clothing	2326	36.2	36.6	37.8	37.3	—	1.4	1.4	1.5	1.4	—
Women's and misses' outerwear	233	35.6	36.0	36.2	36.5	—	1.6	1.8	1.7	1.8	—
Women's and misses' blouses and shirts	2331	35.3	35.1	34.5	34.7	—	1.4	1.2	1.3	1.6	—
Women's, juniors', and misses' dresses	2335	37.2	37.5	38.2	38.3	—	2.2	2.3	2.3	2.5	—
Women's and misses' suits and coats	2337	34.5	34.5	35.2	36.8	—	1.6	1.5	1.0	1.2	—
Women's and misses' outerwear, nec	2339	35.4	35.9	36.2	36.3	—	1.5	1.9	1.8	1.8	—
Women's and children's undergarments	234	37.4	37.8	37.4	36.6	—	2.0	2.4	1.7	1.5	—
Women's and children's underwear	2341	36.5	36.6	36.9	36.4	—	1.6	1.6	1.5	1.3	—
Brassieres, girdles, and allied garments	2342	40.1	41.3	38.8	37.1	—	3.4	4.8	2.3	2.0	—
Girls' and children's outerwear	236	37.0	36.5	37.4	36.0	—	2.0	2.2	3.1	2.5	—
Girls' and children's dresses and blouses	2361	37.6	36.2	37.3	36.2	—	2.9	2.9	3.8	3.2	—
Misc. apparel and accessories	238	37.7	38.5	37.1	37.5	—	1.7	2.4	1.3	1.3	—
Misc. fabricated textile products	239	38.6	39.9	39.1	38.8	—	3.3	3.7	3.2	3.2	—
Curtains and draperies	2391	37.4	39.0	35.3	36.0	—	1.3	2.4	0.9	1.2	—
House furnishings, nec	2392	37.5	38.9	40.3	39.2	—	2.8	3.5	4.0	3.4	—
Automotive and apparel trimmings	2396	40.9	42.4	39.3	39.2	—	4.9	5.1	3.2	3.2	—
Paper and allied products	26	43.3	43.5	43.7	42.9	43.1	5.1	5.4	5.4	5.1	—
Paper mills	262	45.5	45.6	45.6	45.2	—	6.4	6.8	6.3	6.4	—
Paperboard mills	263	44.7	44.7	44.9	44.7	—	7.0	7.4	6.7	6.4	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Nondurable goods—Continued											
Food and kindred products—Continued											
Bakery products	205	\$12.27	\$12.42	\$12.49	\$12.55	—	\$485.89	\$498.04	\$498.35	\$503.26	—
Bread, cake, and related products	2051	12.36	12.41	12.68	12.72	—	486.98	493.92	500.86	506.26	—
Cookies, crackers, and frozen bakery products, except bread	2052,3	12.12	12.45	12.14	12.25	—	486.01	507.96	492.88	497.35	—
Sugar and confectionery products	206	12.40	12.67	12.75	12.74	—	497.24	505.53	541.88	518.52	—
Raw cane sugar	2061	12.43	12.44	12.43	12.11	—	641.39	573.48	739.59	722.97	—
Cane sugar refining	2062	17.55	17.60	18.03	17.63	—	807.30	813.12	869.05	839.19	—
Beet sugar	2063	13.59	13.65	13.07	13.86	—	587.09	573.30	568.55	591.82	—
Candy and other confectionery products	2064	11.34	11.71	11.90	11.82	—	436.59	449.66	486.71	457.43	—
Fats and oils	207	12.33	12.50	12.64	12.66	—	525.26	530.00	544.78	536.78	—
Beverages	208	15.83	15.97	16.25	16.21	—	656.95	691.50	685.75	679.20	—
Malt beverages	2082	21.50	21.85	22.41	22.63	—	948.15	1,022.58	1,039.82	1,031.93	—
Bottled and canned soft drinks	2086	13.27	13.30	13.24	13.29	—	542.74	571.90	548.14	552.86	—
Misc. food and kindred products	209	10.07	10.01	10.57	10.47	—	410.86	401.40	413.29	419.85	—
Tobacco products	21	18.52	19.40	18.32	18.12	\$18.41	724.13	758.54	692.50	677.69	\$681.17
Cigarettes	211	24.62	24.73	24.78	24.15	—	962.64	966.94	929.25	886.31	—
Textile mill products	22	9.89	9.92	10.25	10.25	10.29	398.57	408.70	426.40	421.28	423.95
Broadwoven fabric mills, cotton	221	10.21	10.25	10.73	10.72	—	405.34	415.13	459.24	451.31	—
Broadwoven fabric mills, synthetics	222	10.86	10.94	11.13	11.22	—	435.49	446.35	466.35	463.39	—
Broadwoven fabric mills, wool	223	10.39	10.45	10.52	11.20	—	421.83	440.99	409.23	434.56	—
Narrow fabric mills	224	9.21	9.16	9.39	9.40	—	361.95	371.90	380.30	376.00	—
Knitting mills	225	9.05	9.08	9.31	9.28	—	352.05	363.20	371.47	367.49	—
Women's hosiery, except socks	2251	8.43	8.44	8.54	8.72	—	323.71	328.32	324.52	328.74	—
Hosiery, nec	2252	8.95	9.06	9.42	9.35	—	332.94	347.00	360.79	360.91	—
Knit outerwear mills	2253	8.50	8.50	8.73	8.68	—	327.25	338.30	350.07	345.46	—
Knit underwear mills	2254	9.12	9.01	9.08	9.09	—	348.38	354.09	365.92	345.42	—
Welt knit fabric mills	2257	9.96	9.95	10.18	10.20	—	421.31	434.82	404.15	404.94	—
Textile finishing, except wool	226	10.06	10.15	10.53	10.52	—	422.52	437.47	446.47	436.58	—
Finishing plants, cotton	2261	9.95	10.06	10.54	10.39	—	425.86	439.62	445.84	427.03	—
Finishing plants, synthetics	2262	10.44	10.55	10.97	11.06	—	435.35	444.16	473.90	475.58	—
Carpets and rugs	227	9.92	9.90	10.29	10.26	—	419.62	412.83	440.41	435.02	—
Yarn and thread mills	228	9.60	9.64	9.96	9.92	—	388.80	402.95	417.32	412.67	—
Yarn spinning mills	2281	9.62	9.64	9.99	9.97	—	397.31	408.74	423.58	423.73	—
Throwing and winding mills	2282	9.67	9.78	10.09	9.94	—	357.79	377.51	395.53	378.71	—
Miscellaneous textile goods	229	11.53	11.43	11.74	11.77	—	488.87	493.78	505.99	496.69	—
Apparel and other textile products	23	8.19	8.24	8.41	8.39	8.40	302.21	309.00	313.69	311.27	312.48
Men's and boys' suits and coats	231	8.37	8.33	8.61	8.53	—	311.36	311.54	319.43	313.05	—
Men's and boys' furnishings	232	7.61	7.69	7.96	7.91	—	275.48	282.22	291.34	286.34	—
Men's and boys' shirts	2321	7.49	7.59	7.79	7.77	—	265.90	272.48	281.22	282.83	—
Men's and boys' trousers and slacks	2325	7.63	7.78	8.15	8.02	—	273.92	283.19	297.48	283.11	—
Men's and boys' work clothing	2326	7.59	7.63	7.84	7.84	—	274.76	279.26	296.35	292.43	—
Women's and misses' outerwear	233	7.66	7.70	8.05	7.99	—	272.70	277.20	291.41	291.64	—
Women's and misses' blouses and shirts	2331	6.91	6.82	7.39	7.30	—	243.92	239.38	254.96	253.31	—
Women's, juniors', and misses' dresses	2335	8.65	8.75	8.87	8.98	—	321.78	328.13	338.83	343.93	—
Women's and misses' suits and coats	2337	7.85	7.80	7.85	7.82	—	270.83	269.10	276.32	287.78	—
Women's and misses' outerwear, nec	2339	7.51	7.56	7.98	7.86	—	265.85	271.40	288.88	285.32	—
Women's and children's undergarments	234	7.74	7.77	8.13	8.11	—	289.48	293.71	304.06	296.83	—
Women's and children's underwear	2341	7.59	7.63	7.94	7.88	—	277.04	279.26	292.99	286.83	—
Brassieres, girdles, and allied garments	2342	8.18	8.12	8.69	8.81	—	328.02	335.36	337.17	326.85	—
Girls' and children's outerwear	236	7.30	7.54	7.72	7.69	—	270.10	275.21	288.73	276.84	—
Girls' and children's dresses and blouses	2361	7.28	7.47	7.44	7.36	—	273.73	270.41	277.51	266.43	—
Misc. apparel and accessories	238	7.71	7.85	7.97	7.93	—	290.67	302.23	295.69	297.38	—
Misc. fabricated textile products	239	9.52	9.49	9.29	9.33	—	367.47	378.65	363.24	362.00	—
Curtains and draperies	2391	7.88	7.93	8.31	8.21	—	294.71	309.27	293.34	295.56	—
House furnishings, nec	2392	8.50	8.50	8.90	8.89	—	318.75	330.65	358.67	348.49	—
Automotive and apparel trimmings	2396	12.18	12.04	11.15	11.17	—	498.16	510.50	438.20	437.86	—
Paper and allied products	26	14.78	14.93	15.20	15.24	15.34	639.97	649.46	664.24	653.80	661.15
Paper mills	262	18.57	18.78	19.25	19.32	—	844.94	856.37	877.80	873.26	—
Paperboard mills	263	18.65	18.80	18.99	18.99	—	833.66	840.36	852.65	848.85	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Nondurable goods—Continued											
Paper and allied products—Continued											
Paperboard containers and boxes	265	42.3	42.7	43.2	41.9	—	4.6	4.9	5.2	4.5	—
Corrugated and solid fiber boxes	2653	42.4	43.0	43.3	42.2	—	4.6	5.0	5.2	4.7	—
Sanitary food containers	2656	40.8	42.4	42.4	41.5	—	4.1	4.9	4.8	4.1	—
Folding paperboard boxes	2657	42.7	42.7	43.6	41.5	—	5.1	5.5	6.0	4.7	—
Misc. converted paper products	267	42.1	42.4	42.6	42.0	—	4.3	4.4	4.8	4.5	—
Paper, coated and laminated, nec	2672	44.2	44.3	43.8	43.1	—	3.9	4.3	4.6	4.3	—
Bags: plastics, laminated, and coated	2673	42.4	42.5	41.4	40.8	—	4.9	4.7	4.5	4.5	—
Envelopes	2677	41.4	42.2	42.0	41.1	—	3.8	4.2	4.3	4.0	—
Printing and publishing	27	38.1	38.7	38.0	38.2	38.5	3.0	3.5	3.0	3.0	—
Newspapers	271	33.1	33.3	32.3	33.0	—	1.1	1.3	1.0	1.3	—
Periodicals	272	37.6	36.8	36.0	36.0	—	3.2	2.8	2.0	1.5	—
Books	273	38.0	39.2	39.6	39.2	—	3.5	4.0	3.3	3.1	—
Book publishing	2731	36.2	37.0	36.0	37.3	—	2.8	3.2	2.6	2.5	—
Book printing	2732	40.0	41.6	41.3	41.2	—	4.3	4.8	4.2	3.8	—
Miscellaneous publishing	274	36.3	36.3	35.2	36.0	—	2.1	2.0	2.1	2.3	—
Commercial printing	275	39.6	40.5	39.8	39.9	—	3.8	4.4	3.8	3.8	—
Commercial printing, lithographic	2752	39.6	40.5	39.5	39.8	—	3.7	4.4	3.7	3.9	—
Commercial printing, nec	2759	39.4	40.3	40.2	40.1	—	3.6	4.2	3.9	3.7	—
Manifold business forms	276	41.5	41.3	41.5	41.6	—	3.4	3.2	3.9	3.5	—
Blankbooks and bookbinding	278	39.3	40.4	39.2	39.0	—	2.3	3.0	2.4	2.2	—
Printing trade services	279	39.6	39.9	39.3	40.0	—	4.1	4.5	4.4	4.4	—
Chemicals and allied products	28	43.1	43.2	43.4	43.3	43.4	5.1	5.1	5.2	5.0	—
Industrial inorganic chemicals	281	46.7	46.4	46.8	46.2	—	6.1	5.8	6.0	5.8	—
Industrial inorganic chemicals, nec	2819	47.1	46.7	46.2	45.3	—	6.0	5.8	5.8	5.7	—
Plastics materials and synthetics	282	43.3	43.1	44.2	43.6	—	5.5	5.4	5.3	5.2	—
Plastics materials and resins	2821	45.4	45.1	44.9	44.4	—	5.8	5.6	5.0	5.1	—
Organic fibers, noncellulosic	2824	41.1	41.1	42.8	43.0	—	5.0	5.0	5.0	5.0	—
Drugs	283	41.6	42.0	41.7	41.3	—	4.8	5.0	5.1	4.7	—
Pharmaceutical preparations	2834	41.6	42.1	42.0	41.6	—	4.7	4.9	5.2	4.7	—
Soap, cleaners, and toilet goods	284	40.4	41.0	41.7	41.8	—	3.0	3.3	3.8	3.2	—
Soap and other detergents	2841	42.2	42.7	43.4	43.5	—	3.8	3.7	4.9	4.4	—
Polishing, sanitation, and finishing preparations	2842.3	39.6	40.1	41.5	41.1	—	2.5	3.0	4.0	3.8	—
Toilet preparations	2844	39.9	40.7	41.0	41.4	—	3.0	3.3	3.2	2.4	—
Paints and allied products	285	42.7	42.9	43.2	43.0	—	4.4	4.8	5.0	4.7	—
Industrial organic chemicals	286	44.9	44.4	44.3	44.8	—	6.3	6.1	6.0	6.4	—
Cyclic crudes and intermediates	2865	45.7	44.6	44.0	44.4	—	6.7	6.4	5.0	5.9	—
Industrial organic chemicals, nec	2869	44.7	44.4	44.4	44.9	—	6.2	6.0	6.2	6.5	—
Agricultural chemicals	287	45.6	45.4	45.0	45.2	—	6.4	6.7	6.6	6.9	—
Miscellaneous chemical products	289	43.4	43.6	43.2	43.4	—	4.9	5.1	4.7	4.8	—
Petroleum and coal products	29	43.4	43.0	44.5	42.1	42.5	5.9	5.9	6.0	5.9	—
Petroleum refining	291	44.2	43.6	45.7	42.2	—	6.0	5.8	6.3	6.0	—
Asphalt paving and roofing materials	295	41.7	42.2	41.3	41.8	—	6.4	6.8	5.6	6.2	—
Rubber and misc. plastics products	30	41.5	41.8	42.0	41.6	41.5	4.2	4.5	4.5	4.3	—
Tires and inner tubes	301	43.8	44.2	43.6	43.1	—	6.1	6.4	5.7	5.9	—
Rubber and plastics footwear	302	41.1	41.8	40.2	42.1	—	2.1	2.9	1.8	3.8	—
Hose, belting, gaskets, and packing	305	42.8	43.3	43.3	42.7	—	4.8	5.5	5.1	4.6	—
Rubber and plastics hose and belting	3052	43.7	44.9	43.9	43.7	—	5.1	5.9	5.6	5.3	—
Fabricated rubber products, nec	306	42.2	42.4	43.0	42.5	—	4.5	4.6	4.7	4.5	—
Miscellaneous plastics products, nec	308	41.1	41.3	41.5	41.3	—	4.0	4.2	4.3	4.1	—
Leather and leather products	31	37.8	38.5	37.7	37.9	37.5	2.0	2.1	2.3	2.3	—
Leather tanning and finishing	311	42.7	43.3	43.0	42.7	—	6.4	5.9	5.0	4.5	—
Footwear, except rubber	314	36.7	37.4	36.2	36.3	—	1.5	1.5	1.8	2.1	—
Men's footwear, except athletic	3143	37.4	37.9	36.6	35.9	—	2.1	1.7	2.2	1.9	—
Women's footwear, except athletic	3144	35.9	36.8	36.4	37.0	—	0.4	1.0	1.1	3.0	—
Luggage	316	37.2	38.3	37.6	37.1	—	1.5	2.1	1.8	1.4	—
Handbags and personal leather goods	317	37.9	38.1	37.6	38.4	—	1.1	1.2	1.4	1.2	—
Service-producing		32.8	32.9	32.4	33.0	32.9	—	—	—	—	—
Transportation and public utilities		39.5	39.5	39.2	39.8	39.3	—	—	—	—	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Nondurable goods—Continued											
Paper and allied products—Continued											
Paperboard containers and boxes	265	\$12.48	\$12.63	\$12.98	\$12.95	—	\$527.90	\$539.30	\$560.74	\$542.61	—
Corrugated and solid fiber boxes	2653	12.40	12.54	12.88	12.88	—	525.76	539.22	557.70	543.54	—
Sanitary food containers	2656	12.80	12.95	13.27	13.22	—	522.24	549.08	562.65	548.63	—
Folding paperboard boxes	2657	13.14	13.38	13.75	13.65	—	561.08	571.33	599.50	566.48	—
Misc. converted paper products	267	12.95	13.08	13.25	13.25	—	545.20	554.59	564.45	556.50	—
Paper, coated and laminated, nec	2672	14.63	15.21	15.10	15.17	—	646.65	673.80	661.38	653.83	—
Bags: plastics, laminated, and coated	2673	11.76	11.76	11.96	12.06	—	498.62	499.80	495.14	492.05	—
Envelopes	2677	11.75	11.84	12.14	12.20	—	486.45	499.65	509.88	501.42	—
Printing and publishing	27	12.90	13.01	13.27	13.32	\$13.38	491.49	503.49	504.26	508.82	\$515.13
Newspapers	271	12.85	12.85	13.09	13.11	—	425.34	427.91	422.81	432.63	—
Periodicals	272	14.21	14.17	14.72	14.74	—	534.30	521.46	529.92	530.64	—
Books	273	12.08	12.20	12.26	12.24	—	459.04	478.24	485.50	479.81	—
Book publishing	2731	11.79	11.68	11.66	11.65	—	426.80	432.16	443.08	434.55	—
Book printing	2732	12.37	12.72	12.85	12.81	—	494.80	529.15	530.71	527.77	—
Miscellaneous publishing	274	12.56	12.77	12.80	13.11	—	455.93	463.55	450.56	471.96	—
Commercial printing	275	13.09	13.27	13.50	13.54	—	518.36	537.44	537.30	540.25	—
Commercial printing, lithographic	2752	13.40	13.57	13.77	13.83	—	530.64	549.59	543.92	550.43	—
Commercial printing, nec	2759	12.38	12.57	12.78	12.79	—	487.77	506.57	513.76	512.88	—
Manifold business forms	276	13.36	13.32	14.22	14.19	—	554.44	550.12	590.13	590.30	—
Blankbooks and bookbinding	278	10.03	10.23	10.27	10.32	—	394.18	413.29	402.58	402.48	—
Printing trade services	279	16.00	16.02	16.89	16.91	—	633.60	639.20	663.78	676.40	—
Chemicals and allied products	28	16.49	16.42	16.89	16.93	17.04	710.72	709.34	733.03	733.07	739.54
Industrial inorganic chemicals	281	18.37	18.32	18.92	18.91	—	857.88	850.05	885.46	873.64	—
Industrial inorganic chemicals, nec	2819	18.63	18.55	19.24	19.33	—	877.47	866.29	888.89	875.65	—
Plastics materials and synthetics	282	17.07	17.10	17.46	17.58	—	739.13	737.01	771.73	766.49	—
Plastics materials and resins	2821	18.95	19.01	19.61	19.72	—	860.33	857.35	880.49	875.57	—
Organic fibers, noncellulosic	2824	14.77	14.75	14.91	14.97	—	607.05	606.23	638.15	643.71	—
Drugs	283	16.46	16.35	16.79	16.94	—	684.74	686.70	700.14	699.62	—
Pharmaceutical preparations	2834	16.41	16.26	16.72	16.92	—	682.66	684.55	702.24	703.87	—
Soap, cleaners, and toilet goods	284	13.29	13.24	13.93	13.82	—	536.92	542.84	580.88	577.68	—
Soap and other detergents	2841	16.54	16.44	18.12	18.15	—	697.99	701.99	786.41	789.53	—
Polishing, sanitation, and finishing preparations	2842,3	12.50	12.62	13.41	13.30	—	495.00	506.06	556.52	546.63	—
Toilet preparations	2844	12.11	12.01	12.21	12.04	—	483.19	488.81	500.61	498.46	—
Paints and allied products	285	13.86	13.96	14.34	14.42	—	591.82	598.88	619.49	620.06	—
Industrial organic chemicals	286	19.72	19.70	20.03	20.15	—	885.43	874.68	887.33	902.72	—
Cyclic crudes and intermediates	2865	19.69	19.75	19.79	20.19	—	899.83	880.85	870.76	896.44	—
Industrial organic chemicals, nec	2869	19.86	19.82	20.21	20.27	—	887.74	880.01	897.32	910.12	—
Agricultural chemicals	287	16.37	16.15	16.93	16.88	—	746.47	733.21	761.85	762.98	—
Miscellaneous chemical products	289	14.94	14.85	15.13	15.12	—	648.40	647.46	653.62	656.21	—
Petroleum and coal products	29	20.42	20.51	20.65	20.93	20.98	886.23	881.93	918.93	881.15	891.65
Petroleum refining	291	22.53	22.85	22.89	23.49	—	995.83	996.26	1,046.07	991.28	—
Asphalt paving and roofing materials	295	14.51	14.33	14.46	14.67	—	605.07	604.73	597.20	613.21	—
Rubber and misc. plastics products	30	11.45	11.50	11.74	11.74	11.78	475.18	480.70	493.08	488.38	488.87
Tires and inner tubes	301	18.50	18.62	18.43	18.50	—	810.30	823.00	803.55	797.35	—
Rubber and plastics footwear	302	9.51	9.64	9.91	9.91	—	390.86	402.95	398.38	417.21	—
Hose, belting, gaskets, and packing	305	11.54	11.70	11.65	11.61	—	493.91	506.61	504.45	495.75	—
Rubber and plastics hose and belting	3052	11.71	11.87	11.83	11.84	—	511.73	532.96	519.34	517.41	—
Fabricated rubber products, nec	306	10.95	11.07	11.47	11.43	—	462.09	469.37	493.21	485.78	—
Miscellaneous plastics products, nec	308	10.78	10.80	11.10	11.10	—	443.06	446.04	460.65	458.43	—
Leather and leather products	31	8.91	8.86	9.29	9.23	9.30	336.80	341.11	350.23	349.82	348.75
Leather tanning and finishing	311	11.88	11.78	11.79	11.70	—	507.28	510.07	506.97	499.59	—
Footwear, except rubber	314	8.48	8.39	8.87	8.79	—	311.22	313.79	321.09	319.08	—
Men's footwear, except athletic	3143	9.34	9.14	9.59	9.47	—	349.32	346.41	350.99	339.97	—
Women's footwear, except athletic	3144	7.34	7.35	7.59	7.68	—	263.51	270.48	276.28	284.16	—
Luggage	316	8.56	8.86	9.04	9.12	—	318.43	339.34	339.90	338.35	—
Handbags and personal leather goods	317	7.88	7.74	8.15	8.11	—	298.65	294.89	306.44	311.42	—
Service-producing		11.64	11.66	12.09	12.15	12.17	381.79	383.61	391.72	400.95	400.39
Transportation and public utilities		14.66	14.70	15.22	15.19	15.17	579.07	580.65	596.62	604.56	596.18

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Transportation and public utilities—Continued											
Railroad transportation:											
Class I railroads plus Amtrak ³	4011	49.4	49.5	48.3	47.9	-	-	-	-	-	-
Local and interurban passenger transit	41	33.9	33.9	33.7	34.5	-	-	-	-	-	-
Local and suburban transportation	411	37.9	37.9	38.2	38.7	-	-	-	-	-	-
Intercity and rural bus transportation	413	38.7	38.1	39.4	39.5	-	-	-	-	-	-
Trucking and warehousing	42	39.4	39.7	39.0	39.3	-	-	-	-	-	-
Trucking and courier services, except air	421	39.3	39.8	38.9	39.3	-	-	-	-	-	-
Public warehousing and storage	422	39.4	39.5	40.0	39.8	-	-	-	-	-	-
Water transportation:											
Water transportation services	449	38.6	39.0	38.7	39.1	-	-	-	-	-	-
Pipelines, except natural gas	46	44.8	44.6	45.4	44.5	-	-	-	-	-	-
Transportation services	47	39.2	39.1	36.9	38.3	-	-	-	-	-	-
Passenger transportation arrangement	472	38.9	39.1	36.7	38.3	-	-	-	-	-	-
Travel agencies	4724	38.5	38.7	36.8	38.5	-	-	-	-	-	-
Freight transportation arrangement	473	39.8	39.4	36.7	38.1	-	-	-	-	-	-
Communications	48	39.9	40.0	40.5	41.1	-	-	-	-	-	-
Telephone communications	481	41.4	41.6	42.2	42.9	-	-	-	-	-	-
Telephone communications, except radio	4813	41.9	41.9	42.8	43.3	-	-	-	-	-	-
Radio and television broadcasting	483	35.6	35.4	35.3	35.9	-	-	-	-	-	-
Cable and other pay television services	484	39.1	39.0	40.0	40.0	-	-	-	-	-	-
Electric, gas, and sanitary services	49	41.8	41.9	42.1	41.7	-	-	-	-	-	-
Electric services	491	41.4	41.7	41.7	41.8	-	-	-	-	-	-
Gas production and distribution	492	42.5	42.0	42.0	42.3	-	-	-	-	-	-
Combination utility services	493	43.0	42.6	43.8	40.6	-	-	-	-	-	-
Sanitary services	495	41.6	42.1	42.0	42.2	-	-	-	-	-	-
Wholesale trade		38.5	38.5	38.1	38.5	38.5	-	-	-	-	-
Durable goods	50	39.3	39.3	38.9	39.3	-	-	-	-	-	-
Motor vehicles, parts, and supplies	501	38.1	38.2	37.6	37.9	-	-	-	-	-	-
Furniture and home furnishings	502	37.6	37.2	38.0	37.9	-	-	-	-	-	-
Lumber and other construction materials	503	39.2	39.7	38.9	39.1	-	-	-	-	-	-
Professional and commercial equipment	504	40.1	39.9	39.5	40.4	-	-	-	-	-	-
Medical and hospital equipment	5047	39.8	40.0	39.2	39.8	-	-	-	-	-	-
Metals and minerals, except petroleum	505	42.3	42.2	41.0	41.6	-	-	-	-	-	-
Electrical goods	506	39.6	39.7	39.0	39.4	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	39.2	39.3	39.1	39.3	-	-	-	-	-	-
Machinery, equipment, and supplies	508	39.6	39.7	39.3	39.7	-	-	-	-	-	-
Misc. wholesale trade durable goods	509	37.9	38.0	37.4	37.4	-	-	-	-	-	-
Nondurable goods	51	37.3	37.4	36.9	37.4	-	-	-	-	-	-
Paper and paper products	511	36.1	36.3	36.5	37.3	-	-	-	-	-	-
Drugs, proprietaries, and sundries	512	36.9	36.6	36.1	36.9	-	-	-	-	-	-
Apparel, piece goods, and notions	513	37.2	37.5	37.0	37.6	-	-	-	-	-	-
Groceries and related products	514	38.2	38.3	37.8	38.1	-	-	-	-	-	-
Farm-product raw materials	515	33.7	34.1	32.7	32.8	-	-	-	-	-	-
Chemicals and allied products	516	40.4	40.5	39.9	40.5	-	-	-	-	-	-
Petroleum and petroleum products	517	37.7	37.6	37.7	37.5	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	37.7	37.5	37.2	37.6	-	-	-	-	-	-
Misc. wholesale trade nondurable goods	519	36.2	36.3	35.6	36.4	-	-	-	-	-	-
Retail trade		28.7	28.7	28.1	28.8	28.7	-	-	-	-	-
Building materials and garden supplies	52	34.8	35.0	33.8	34.6	-	-	-	-	-	-
Lumber and other building materials	521	36.6	36.7	35.2	36.2	-	-	-	-	-	-
Paint, glass, and wallpaper stores	523	35.4	35.5	34.7	34.8	-	-	-	-	-	-
Hardware stores	525	30.4	30.9	30.3	30.4	-	-	-	-	-	-
Retail nurseries and garden stores	526	30.8	31.5	29.5	30.2	-	-	-	-	-	-

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Transportation and public utilities—Continued											
Railroad transportation:											
Class I railroads plus Amtrak ³	4011	\$18.42	\$18.00	\$18.10	\$17.99	—	\$909.95	\$891.00	\$874.23	\$861.72	—
Local and interurban passenger transit	41	10.86	10.84	11.14	11.12	—	368.15	367.48	375.42	383.64	—
Local and suburban transportation	411	11.39	11.36	11.61	11.73	—	431.68	430.54	443.50	453.95	—
Intercity and rural bus transportation	413	13.84	13.89	13.92	13.81	—	535.61	529.21	548.45	545.50	—
Trucking and warehousing	42	13.02	13.04	13.45	13.47	—	512.99	517.69	524.55	529.37	—
Trucking and courier services, except air	421	13.24	13.25	13.69	13.71	—	520.33	527.35	532.54	538.80	—
Public warehousing and storage	422	10.79	10.88	11.13	11.08	—	425.13	429.76	445.20	440.98	—
Water transportation:											
Water transportation services	449	19.60	19.18	20.27	20.76	—	756.56	748.02	784.45	811.72	—
Pipelines, except natural gas	46	20.64	20.62	20.33	20.79	—	924.67	919.65	922.98	925.16	—
Transportation services	47	12.78	13.00	13.35	13.31	—	500.98	508.30	492.62	509.77	—
Passenger transportation arrangement	472	12.76	13.09	13.64	13.52	—	496.36	511.82	500.59	517.82	—
Travel agencies	4724	13.02	13.49	13.89	13.76	—	501.27	522.06	511.15	529.76	—
Freight transportation arrangement	473	13.19	13.28	13.32	13.40	—	524.96	523.23	488.84	510.54	—
Communications											
Telephone communications	481	17.18	17.35	18.04	17.94	—	711.25	721.76	761.29	769.63	—
Telephone communications, except radio	4813	17.70	17.85	18.57	18.50	—	741.63	747.92	794.80	801.05	—
Radio and television broadcasting	483	16.32	16.32	17.45	17.22	—	580.99	577.73	615.99	618.20	—
Cable and other pay television services	484	13.25	13.41	14.00	13.89	—	518.08	522.99	560.00	555.60	—
Electric, gas, and sanitary services											
Electric services	491	19.76	20.03	20.93	20.92	—	818.06	835.25	872.78	874.46	—
Gas production and distribution	492	17.95	18.01	18.26	18.49	—	762.88	756.42	766.92	782.13	—
Combination utility services	493	22.70	22.96	24.36	22.86	—	976.10	978.10	1,066.97	928.12	—
Sanitary services	495	14.18	14.21	15.12	15.50	—	589.89	598.24	635.04	654.10	—
Wholesale trade		13.26	13.28	13.76	13.85	\$13.85	510.51	511.28	524.26	533.23	\$533.23
Durable goods											
Motor vehicles, parts, and supplies	501	12.06	12.11	12.79	12.88	—	459.49	462.60	480.90	488.15	—
Furniture and home furnishings	502	12.26	12.31	12.60	12.53	—	460.98	457.93	478.80	474.89	—
Lumber and other construction materials	503	12.48	12.53	12.98	12.97	—	489.22	497.44	504.92	507.13	—
Professional and commercial equipment	504	16.40	16.38	16.84	16.96	—	657.64	653.56	665.18	685.18	—
Medical and hospital equipment	5047	15.38	15.50	16.62	16.97	—	612.12	620.00	651.50	675.41	—
Metals and minerals, except petroleum	505	13.44	13.38	13.77	14.00	—	568.51	564.64	564.57	582.40	—
Electrical goods	506	14.94	15.04	15.45	15.58	—	591.62	597.09	602.55	613.85	—
Hardware, plumbing, and heating equipment	507	12.96	13.01	13.55	13.62	—	508.03	511.29	529.81	535.27	—
Machinery, equipment, and supplies	508	13.86	13.81	14.42	14.48	—	548.86	548.26	566.71	574.86	—
Misc. wholesale trade durable goods	509	10.75	10.78	11.16	11.21	—	407.43	409.64	417.38	419.25	—
Nondurable goods											
Paper and paper products	511	12.61	12.46	13.29	13.34	—	455.22	452.30	485.09	497.58	—
Drugs, proprietaries, and sundries	512	16.14	16.22	16.54	16.97	—	595.57	593.65	597.09	626.19	—
Apparel, piece goods, and notions	513	12.45	12.47	12.82	13.00	—	463.14	467.63	474.34	488.80	—
Groceries and related products	514	12.59	12.68	13.02	13.10	—	480.94	485.64	492.16	499.11	—
Farm-product raw materials	515	9.53	9.55	9.81	9.83	—	321.16	325.66	320.79	322.42	—
Chemicals and allied products	516	13.87	13.99	14.62	14.74	—	560.35	566.60	583.34	596.97	—
Petroleum and petroleum products	517	11.62	11.54	11.97	11.90	—	438.07	433.90	451.27	446.25	—
Beer, wine, and distilled beverages	518	14.22	14.41	15.04	14.96	—	536.09	540.38	559.49	562.50	—
Misc. wholesale trade nondurable goods	519	10.29	10.30	10.74	10.69	—	372.50	373.89	382.34	389.12	—
Retail trade		8.24	8.27	8.63	8.62	8.65	236.49	237.35	242.50	248.26	248.26
Building materials and garden supplies											
Lumber and other building materials	521	10.18	10.14	10.50	10.52	—	372.59	372.14	369.60	380.82	—
Paint, glass, and wallpaper stores	523	10.21	10.20	10.49	10.50	—	361.43	362.10	364.00	365.40	—
Hardware stores	525	8.14	8.15	8.43	8.45	—	247.46	251.84	255.43	256.88	—
Retail nurseries and garden stores	526	9.02	8.85	9.38	9.25	—	277.82	278.78	276.71	279.35	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Retail trade—Continued											
General merchandise stores	53	28.4	29.1	28.2	29.2	-	-	-	-	-	-
Department stores	531	28.4	29.2	28.2	29.3	-	-	-	-	-	-
Variety stores	533	26.4	27.3	26.3	26.9	-	-	-	-	-	-
Misc. general merchandise stores	539	28.9	29.4	29.1	29.5	-	-	-	-	-	-
Food stores	54	29.5	29.3	29.0	29.5	-	-	-	-	-	-
Grocery stores	541	29.6	29.4	29.2	29.6	-	-	-	-	-	-
Retail bakeries	546	28.4	28.3	27.8	29.0	-	-	-	-	-	-
Automotive dealers and service stations	55	35.4	35.5	35.2	35.4	-	-	-	-	-	-
New and used car dealers	551	37.1	37.0	36.8	37.0	-	-	-	-	-	-
Auto and home supply stores	553	37.2	37.4	37.2	37.4	-	-	-	-	-	-
Gasoline service stations	554	31.8	31.9	31.7	31.8	-	-	-	-	-	-
Automotive dealers, nec	559	36.2	36.3	35.7	34.9	-	-	-	-	-	-
Apparel and accessory stores	56	26.0	26.5	25.9	26.1	-	-	-	-	-	-
Men's and boys' clothing stores	561	29.0	28.7	28.1	28.2	-	-	-	-	-	-
Women's clothing stores	562	24.2	24.9	23.7	24.1	-	-	-	-	-	-
Family clothing stores	565	26.4	27.3	26.8	26.7	-	-	-	-	-	-
Shoe stores	566	26.5	26.2	25.8	25.9	-	-	-	-	-	-
Furniture and home furnishings stores	57	32.8	32.8	32.5	32.9	-	-	-	-	-	-
Furniture and home furnishings stores	571	33.0	32.9	32.2	32.7	-	-	-	-	-	-
Household appliance stores	572	34.5	34.7	34.1	34.4	-	-	-	-	-	-
Radio, television, and computer stores	573	32.4	32.3	32.5	32.9	-	-	-	-	-	-
Radio, television, and electronic stores	5731	32.4	32.5	33.0	32.9	-	-	-	-	-	-
Record and prerecorded tape stores	5735	25.0	24.7	24.5	25.0	-	-	-	-	-	-
Eating and drinking places ⁴	58	25.2	25.3	24.3	25.3	-	-	-	-	-	-
Miscellaneous retail establishments	59	29.5	29.2	28.8	29.5	-	-	-	-	-	-
Drug stores and proprietary stores	591	28.7	28.6	28.5	28.5	-	-	-	-	-	-
Used merchandise stores	593	30.6	30.6	30.3	30.2	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	27.6	27.7	26.6	27.5	-	-	-	-	-	-
Nonstore retailers	596	31.9	32.1	31.9	31.9	-	-	-	-	-	-
Fuel dealers	598	39.9	38.4	38.6	38.6	-	-	-	-	-	-
Retail stores, nec	599	31.1	29.5	29.6	31.7	-	-	-	-	-	-
Optical goods stores	5995	33.5	33.1	33.2	34.0	-	-	-	-	-	-
Miscellaneous retail stores, nec	5999	29.5	29.7	29.7	30.2	-	-	-	-	-	-
Finance, insurance, and real estate⁵		36.7	36.5	36.1	37.1	36.9	-	-	-	-	-
Depository institutions	60	35.8	35.4	35.1	36.1	-	-	-	-	-	-
Commercial banks	602	35.5	35.1	34.8	35.9	-	-	-	-	-	-
State commercial banks	6022	35.9	35.7	34.9	35.9	-	-	-	-	-	-
National and commercial banks, nec	6021,9	35.3	34.7	34.7	35.9	-	-	-	-	-	-
Credit unions	606	36.2	36.2	35.8	36.2	-	-	-	-	-	-
Nondepository institutions	61	39.0	39.0	37.4	38.9	-	-	-	-	-	-
Personal credit institutions	614	39.6	39.7	37.6	39.2	-	-	-	-	-	-
Security and commodity brokers: Security and commodity services	628	38.8	38.7	37.3	39.7	-	-	-	-	-	-
Insurance carriers	63	39.1	39.1	39.0	39.9	-	-	-	-	-	-
Life insurance	631	38.8	39.0	38.5	40.4	-	-	-	-	-	-
Medical service and health insurance	632	39.4	39.2	39.3	40.0	-	-	-	-	-	-
Hospital and medical service plans	6324	39.5	39.3	39.8	40.5	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	39.1	39.0	39.6	39.5	-	-	-	-	-	-
Services		32.7	32.6	32.4	32.8	32.7	-	-	-	-	-
Agricultural services	07	32.3	33.1	31.8	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 workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Retail trade—Continued											
General merchandise stores	53	\$8.08	\$8.16	\$8.44	\$8.49	—	\$229.47	\$237.46	\$238.01	\$247.91	—
Department stores	531	8.13	8.21	8.48	8.53	—	230.89	239.73	239.14	249.93	—
Variety stores	533	7.46	7.49	7.80	7.90	—	196.94	204.48	205.14	212.51	—
Misc. general merchandise stores	539	7.86	7.89	8.32	8.27	—	227.15	231.97	242.11	243.97	—
Food stores	54	8.61	8.65	8.93	8.93	—	254.00	253.45	258.97	263.44	—
Grocery stores	541	8.71	8.76	9.04	9.04	—	257.82	257.54	263.97	267.58	—
Retail bakeries	546	7.55	7.59	7.84	7.85	—	214.42	214.80	217.95	227.65	—
Automotive dealers and service stations	55	11.20	11.31	11.56	11.72	—	396.48	401.51	406.91	414.89	—
New and used car dealers	551	14.03	14.24	14.42	14.63	—	520.51	526.88	530.66	541.31	—
Auto and home supply stores	553	9.26	9.33	9.64	9.76	—	344.47	348.94	358.61	365.02	—
Gasoline service stations	554	7.37	7.39	7.68	7.66	—	234.37	235.74	243.46	243.59	—
Automotive dealers, nec	559	12.26	12.39	12.84	12.57	—	443.81	449.76	458.39	438.69	—
Apparel and accessory stores	56	7.94	7.96	8.27	8.35	—	206.44	210.94	214.19	217.94	—
Men's and boys' clothing stores	561	9.37	9.42	10.20	9.95	—	271.73	270.35	286.62	280.59	—
Women's clothing stores	562	7.84	7.92	8.21	8.31	—	189.73	197.21	194.58	200.27	—
Family clothing stores	565	7.73	7.70	7.89	8.09	—	204.07	210.21	211.45	216.00	—
Shoe stores	566	7.75	7.82	8.22	8.18	—	205.38	204.88	212.08	211.86	—
Furniture and home furnishings stores	57	10.92	11.01	11.68	11.76	—	358.18	361.13	379.60	386.90	—
Furniture and home furnishings stores	571	10.27	10.37	10.98	11.06	—	338.91	341.17	353.56	361.66	—
Household appliance stores	572	10.54	10.44	11.04	11.13	—	363.63	362.27	376.46	382.87	—
Radio, television, and computer stores	573	11.79	11.92	12.59	12.68	—	382.00	385.02	409.18	417.17	—
Radio, television, and electronic stores	5731	10.97	10.88	11.56	11.89	—	355.43	353.60	381.48	391.18	—
Record and prerecorded tape stores	5735	6.89	6.91	7.34	7.28	—	172.25	170.68	179.83	182.00	—
Eating and drinking places ⁴	58	5.93	5.95	6.24	6.24	—	149.44	150.54	151.63	157.87	—
Miscellaneous retail establishments	59	9.05	9.07	9.40	9.34	—	266.98	264.84	270.72	275.53	—
Drug stores and proprietary stores	591	9.52	9.56	9.85	9.91	—	273.22	273.42	280.73	282.44	—
Used merchandise stores	593	7.63	7.61	7.73	7.83	—	233.48	232.87	234.22	236.47	—
Miscellaneous shopping goods stores	594	8.39	8.42	8.86	8.64	—	231.56	233.23	235.68	237.60	—
Nonstore retailers	596	9.54	9.58	9.84	9.99	—	304.33	307.52	313.90	318.68	—
Fuel dealers	598	12.41	12.22	12.89	12.81	—	495.16	469.25	497.55	494.47	—
Retail stores, nec	599	9.04	9.14	9.29	9.20	—	281.14	269.63	274.98	291.64	—
Optical goods stores	5995	11.28	11.22	11.11	11.06	—	377.88	371.38	368.85	376.04	—
Miscellaneous retail stores, nec	5999	9.42	9.44	9.60	9.60	—	277.89	280.37	285.12	289.92	—
Finance, insurance, and real estate⁵		13.15	13.20	13.67	13.91	\$13.95	482.61	481.80	493.49	516.06	\$514.76
Depository institutions	60	10.25	10.20	10.54	10.71	—	366.95	361.08	369.95	386.63	—
Commercial banks	602	9.79	9.70	10.07	10.24	—	347.55	340.47	350.44	367.62	—
State commercial banks	6022	9.61	9.59	9.94	10.05	—	345.00	342.36	346.91	360.80	—
National and commercial banks, nec	6021,9	9.91	9.78	10.16	10.37	—	349.82	339.37	352.55	372.28	—
Credit unions	606	10.11	10.12	10.45	10.50	—	365.98	366.34	374.11	380.10	—
Nondepository institutions	61	13.22	13.32	14.15	14.34	—	515.58	519.48	529.21	557.83	—
Personal credit institutions	614	11.50	11.47	11.87	11.98	—	455.40	455.36	446.31	469.62	—
Security and commodity brokers: Security and commodity services	628	18.70	18.65	20.27	20.32	—	725.56	721.76	756.07	806.70	—
Insurance carriers	63	15.47	15.60	16.28	16.51	—	604.88	609.96	634.92	658.75	—
Life insurance	631	14.26	14.49	14.74	15.00	—	553.29	565.11	567.49	606.00	—
Medical service and health insurance	632	14.64	14.74	15.06	15.41	—	576.82	577.81	591.86	616.40	—
Hospital and medical service plans	6324	14.91	15.02	15.38	15.73	—	588.95	590.29	612.12	637.07	—
Fire, marine, and casualty insurance	633	16.86	16.94	17.91	18.18	—	659.23	660.66	709.24	718.11	—
Services		12.24	12.24	12.67	12.75	12.77	400.25	399.02	410.51	418.20	417.58
Agricultural services	07	9.51	9.43	10.00	9.92	—	307.17	312.13	318.00	323.39	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Services—Continued											
Agricultural services—Continued											
Veterinary services	074	28.6	28.7	28.4	29.0	-	-	-	-	-	-
Landscape and horticultural services	078	34.1	35.3	33.6	34.5	-	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels ⁴	701	31.0	31.1	29.6	31.2	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	33.5	33.8	33.5	33.8	-	-	-	-	-	-
Beauty shops ⁴	723	27.9	28.1	27.7	28.3	-	-	-	-	-	-
Miscellaneous personal services	729	28.8	25.9	23.7	28.9	-	-	-	-	-	-
Business services											
Advertising	731	37.3	37.3	36.2	37.0	-	-	-	-	-	-
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services	7334	36.3	36.2	37.2	38.5	-	-	-	-	-	-
Services to buildings	734	29.0	28.8	28.1	28.5	-	-	-	-	-	-
Disinfecting and pest control services	7342	37.7	37.5	35.4	37.0	-	-	-	-	-	-
Building maintenance services, nec	7349	28.2	27.9	27.4	27.6	-	-	-	-	-	-
Miscellaneous equipment rental and leasing	735	38.6	39.0	37.9	38.3	-	-	-	-	-	-
Medical equipment rental	7352	38.1	38.1	36.8	36.8	-	-	-	-	-	-
Heavy construction equipment rental	7353	39.5	40.6	39.3	40.4	-	-	-	-	-	-
Equipment rental and leasing, nec	7359	38.4	38.8	37.7	38.0	-	-	-	-	-	-
Personnel supply services:											
Help supply services	7363	32.4	32.6	32.6	32.5	-	-	-	-	-	-
Computer and data processing services	737	38.5	38.4	38.2	38.9	-	-	-	-	-	-
Computer programming services	7371	38.8	38.7	37.9	38.2	-	-	-	-	-	-
Computer integrated systems design	7373	39.6	39.4	39.1	40.3	-	-	-	-	-	-
Information retrieval services	7375	38.4	38.1	38.6	39.4	-	-	-	-	-	-
Computer maintenance and repair	7378	38.5	38.6	38.4	38.9	-	-	-	-	-	-
Miscellaneous business services	738	33.0	33.1	32.7	32.9	-	-	-	-	-	-
Detective and armored car services	7381	34.7	34.7	34.1	34.4	-	-	-	-	-	-
Security systems services	7382	36.4	36.0	35.6	35.4	-	-	-	-	-	-
Auto repair, services, and parking											
Automotive rentals, without drivers	751	36.0	36.4	36.3	36.6	-	-	-	-	-	-
Passenger car rental	7514	35.8	36.5	36.3	36.6	-	-	-	-	-	-
Automobile parking	752	34.0	33.9	32.9	33.6	-	-	-	-	-	-
Automotive repair shops	753	38.3	38.3	38.0	38.1	-	-	-	-	-	-
Automotive and tire repair shops	7532.4	38.5	38.3	38.1	38.2	-	-	-	-	-	-
General automotive repair shops	7538	37.7	37.8	37.6	37.6	-	-	-	-	-	-
Automotive services, except repair	754	31.0	31.0	29.1	29.9	-	-	-	-	-	-
Carwashes	7542	27.9	28.4	25.0	26.6	-	-	-	-	-	-
Miscellaneous repair services	76	38.3	38.5	37.9	38.1	-	-	-	-	-	-
Motion pictures											
Motion picture production and services	781	39.6	39.1	38.7	39.1	-	-	-	-	-	-
Video tape rental	784	24.0	24.1	23.9	23.5	-	-	-	-	-	-
Amusement and recreation services											
Bowling centers	793	24.8	24.7	24.8	25.2	-	-	-	-	-	-
Misc. amusement and recreation services	799	26.0	25.8	25.4	25.8	-	-	-	-	-	-
Physical fitness facilities	7991	19.1	19.0	19.0	19.8	-	-	-	-	-	-
Membership sports and recreation clubs	7997	27.8	27.8	27.0	27.8	-	-	-	-	-	-
Health services											
Offices and clinics of medical doctors	801	33.4	33.3	33.0	33.5	-	-	-	-	-	-
Offices and clinics of dentists	802	28.7	28.7	28.0	28.6	-	-	-	-	-	-
Offices and clinics of other health practitioners	804	30.5	30.9	30.0	30.5	-	-	-	-	-	-
Nursing and personal care facilities	805	32.4	32.3	32.4	32.5	-	-	-	-	-	-
Intermediate care facilities	8052	31.9	31.8	31.7	31.6	-	-	-	-	-	-
Hospitals	806	34.6	34.7	35.2	35.3	-	-	-	-	-	-

See footnotes at end of table.

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Services—Continued											
Agricultural services—Continued											
Veterinary services	074	\$9.37	\$9.38	\$9.77	\$9.78	—	\$267.98	\$269.21	\$277.47	\$283.62	—
Landscape and horticultural services	078	9.69	9.54	10.20	10.06	—	330.43	336.76	342.72	347.07	—
Hotels and other lodging places:											
Hotels and motels ⁴	701	8.47	8.47	8.84	8.90	—	262.57	263.42	261.66	277.68	—
Personal services:											
Laundry, cleaning, and garment services	721	7.94	7.99	8.20	8.23	—	265.99	270.06	274.70	278.17	—
Beauty shops ⁴	723	8.85	9.00	9.23	9.21	—	246.92	252.90	255.67	260.64	—
Miscellaneous personal services	729	7.96	8.13	8.83	8.66	—	229.25	210.57	209.27	250.27	—
Business services											
Advertising	731	11.73	11.72	12.23	12.39	—	392.96	393.79	408.48	417.54	—
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services	7334	10.88	10.87	11.24	11.10	—	394.94	393.49	418.13	427.35	—
Services to buildings	734	7.77	7.75	8.09	8.12	—	225.33	223.20	227.33	231.42	—
Disinfecting and pest control services	7342	10.05	10.11	10.89	10.97	—	378.89	379.13	385.51	405.89	—
Building maintenance services, nec	7349	7.49	7.45	7.75	7.76	—	211.22	207.86	212.35	214.18	—
Miscellaneous equipment rental and leasing	735	11.78	11.93	12.27	12.41	—	454.71	465.27	465.03	475.30	—
Medical equipment rental	7352	10.80	11.10	12.02	12.12	—	411.48	422.91	442.34	446.02	—
Heavy construction equipment rental	7353	15.29	15.63	15.80	15.91	—	603.96	634.58	620.94	642.76	—
Equipment rental and leasing, nec	7359	10.94	10.98	11.28	11.41	—	420.10	426.02	425.26	433.58	—
Personnel supply services:											
Help supply services	7363	9.62	9.62	10.06	10.15	—	311.69	313.61	327.96	329.88	—
Computer and data processing services	737	19.73	19.70	20.30	20.69	—	759.61	756.48	775.46	804.84	—
Computer programming services	7371	22.73	22.73	23.61	24.08	—	881.92	879.65	894.82	919.86	—
Computer integrated systems design	7373	20.25	20.19	20.49	20.84	—	801.90	795.49	801.16	839.85	—
Information retrieval services	7375	14.94	14.96	16.02	15.93	—	573.70	569.98	618.37	627.64	—
Computer maintenance and repair	7378	14.09	14.12	15.36	15.41	—	542.47	545.03	589.82	599.45	—
Miscellaneous business services	738	9.64	9.70	9.97	10.00	—	318.12	321.07	326.02	329.00	—
Detective and armored car services	7381	7.66	7.65	8.08	8.09	—	265.80	265.46	275.53	278.30	—
Security systems services	7382	12.02	12.06	12.68	12.56	—	437.53	434.16	451.41	444.62	—
Auto repair, services, and parking											
Automotive rentals, without drivers	751	9.89	9.95	10.42	10.45	—	356.04	362.18	378.25	382.47	—
Passenger car rental	7514	8.87	8.90	9.40	9.46	—	317.55	324.85	341.22	346.24	—
Automobile parking	752	7.54	7.50	8.17	8.14	—	256.36	254.25	268.79	273.50	—
Automotive repair shops	753	11.76	11.79	12.15	12.16	—	450.41	451.56	461.70	463.30	—
Automotive and tire repair shops	7532.4	12.40	12.36	12.80	12.74	—	477.40	473.39	487.68	486.67	—
General automotive repair shops	7538	11.72	11.78	12.10	12.08	—	441.84	445.28	454.96	454.21	—
Automotive services, except repair	754	7.78	7.84	8.38	8.31	—	241.18	243.04	243.86	248.47	—
Carwashes	7542	6.90	6.89	7.31	7.24	—	192.51	195.68	182.75	192.58	—
Miscellaneous repair services											
Motion pictures	78	14.52	14.35	14.82	14.93	—	444.31	434.81	444.60	452.38	—
Motion picture production and services	781	20.28	20.05	20.40	20.03	—	803.09	783.96	789.48	783.17	—
Video tape rental	784	6.40	6.39	7.04	7.09	—	153.60	154.00	168.26	166.62	—
Amusement and recreation services											
Bowling centers	793	7.18	7.25	7.44	7.41	—	178.06	179.08	184.51	186.73	—
Misc. amusement and recreation services	799	8.84	8.82	9.09	9.07	—	229.84	227.56	230.89	234.01	—
Physical fitness facilities	7991	8.30	8.28	8.75	8.78	—	158.53	157.32	166.25	173.84	—
Membership sports and recreation clubs	7997	9.20	9.12	9.56	9.53	—	255.76	253.54	258.12	264.93	—
Health services											
Offices and clinics of medical doctors	801	13.12	13.14	13.54	13.56	—	432.96	433.62	449.53	452.90	—
Offices and clinics of dentists	802	13.44	13.54	13.95	13.96	—	385.73	388.60	390.60	399.26	—
Offices and clinics of other health practitioners	804	12.20	12.23	12.95	13.08	—	372.10	377.91	388.50	398.94	—
Nursing and personal care facilities	805	9.20	9.20	9.61	9.62	—	298.08	297.16	311.36	312.65	—
Intermediate care facilities	8052	8.63	8.62	9.10	9.09	—	275.30	274.12	288.47	287.24	—
Hospitals	806	14.91	14.91	15.26	15.25	—	515.89	517.38	537.15	538.33	—

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Services—Continued											
Health services—Continued											
Home health care services	808	28.8	28.8	29.2	29.3	-	-	-	-	-	-
Legal services	81	35.5	35.3	34.6	35.5	-	-	-	-	-	-
Social services	83	31.4	31.3	31.0	31.4	-	-	-	-	-	-
Individual and family services	832	31.7	31.5	31.2	31.4	-	-	-	-	-	-
Job training and related services	833	31.1	30.9	30.6	30.8	-	-	-	-	-	-
Child day care services	835	30.1	29.8	29.4	30.1	-	-	-	-	-	-
Residential care	836	32.2	32.1	32.1	32.4	-	-	-	-	-	-
Social services, nec	839	32.3	32.4	32.3	32.8	-	-	-	-	-	-
Membership organizations:											
Professional organizations	862	35.3	35.2	34.8	35.5	-	-	-	-	-	-
Engineering and management services	87	37.9	37.9	37.0	37.8	-	-	-	-	-	-
Engineering and architectural services	871	39.5	39.5	38.9	39.5	-	-	-	-	-	-
Engineering services	8711	39.8	39.9	39.2	39.7	-	-	-	-	-	-
Architectural services	8712	39.1	38.6	38.2	39.0	-	-	-	-	-	-
Surveying services	8713	37.7	37.4	37.3	37.8	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	872	37.9	38.7	36.8	38.5	-	-	-	-	-	-
Research and testing services	873	37.0	36.6	36.1	36.5	-	-	-	-	-	-
Commercial physical research	8731	40.7	40.3	40.0	40.0	-	-	-	-	-	-
Commercial nonphysical research	8732	30.7	30.2	29.5	30.4	-	-	-	-	-	-
Noncommercial research organizations	8733	37.1	36.8	35.7	36.3	-	-	-	-	-	-
Management and public relations	874	36.8	36.5	35.8	36.3	-	-	-	-	-	-
Management services	8741	35.9	35.9	34.7	35.2	-	-	-	-	-	-
Management consulting services	8742	37.4	36.9	36.3	36.8	-	-	-	-	-	-
Public relations services	8743	36.4	36.4	34.9	36.5	-	-	-	-	-	-
Services, nec	89	36.4	35.9	34.0	34.3	-	-	-	-	-	-

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Services—Continued											
Health services—Continued											
Home health care services	808	\$11.34	\$11.32	\$11.35	\$11.38	—	\$326.59	\$326.02	\$331.42	\$333.43	—
Legal services	81	17.28	17.33	17.61	17.97	—	613.44	611.75	609.31	637.94	—
Social services	83	8.75	8.76	9.02	9.07	—	274.75	274.19	279.62	284.80	—
Individual and family services	832	9.31	9.31	9.54	9.62	—	295.13	293.27	297.65	302.07	—
Job training and related services	833	8.53	8.55	8.74	8.79	—	265.28	264.20	267.44	270.73	—
Child day care services	835	7.50	7.52	7.80	7.82	—	225.75	224.10	229.32	235.38	—
Residential care	836	8.85	8.85	9.14	9.15	—	284.97	284.09	293.39	296.46	—
Social services, nec	839	10.56	10.54	10.94	11.15	—	341.09	341.50	353.36	365.72	—
Membership organizations:											
Professional organizations	862	17.37	17.39	18.26	18.36	—	613.16	612.13	635.45	651.78	—
Engineering and management services											
Engineering and architectural services	871	18.75	18.89	19.27	19.50	—	740.63	746.16	749.60	770.25	—
Engineering services	8711	19.57	19.71	20.15	20.35	—	778.89	786.43	789.88	807.90	—
Architectural services	8712	16.85	17.00	17.20	17.55	—	658.84	656.20	657.04	684.45	—
Surveying services	8713	13.22	13.35	13.51	13.67	—	498.39	499.29	503.92	516.73	—
Accounting, auditing, and bookkeeping	872	14.41	14.46	14.87	15.18	—	546.14	559.60	547.22	584.43	—
Research and testing services	873	17.95	17.96	18.23	18.41	—	664.15	657.34	658.10	671.97	—
Commercial physical research	8731	20.12	20.00	19.90	20.37	—	818.88	806.00	796.00	814.80	—
Commercial nonphysical research	8732	13.92	14.10	14.79	14.68	—	427.34	425.82	436.31	446.27	—
Noncommercial research organizations	8733	20.93	20.92	21.53	21.67	—	776.50	769.86	768.62	786.62	—
Management and public relations	874	16.15	16.07	16.72	17.00	—	594.32	586.56	598.58	617.10	—
Management services	8741	14.50	14.43	15.15	15.33	—	520.55	518.04	525.71	539.62	—
Management consulting services	8742	18.24	18.11	18.78	19.10	—	682.18	668.26	681.71	702.88	—
Public relations services	8743	14.99	14.95	15.53	15.58	—	545.64	544.18	542.00	568.67	—
Services, nec	89	17.14	17.04	17.46	17.46	—	623.90	611.74	593.64	598.88	—

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

² See table B-15a for average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.

³ Data relate to line-haul railroads with operating revenues of \$253.7 million or more in 1993 and to Amtrak.

⁴ Money payments only; tips, not included.

⁵ Excludes nonoffice commissioned real estate sales agents.

— Data not available.

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 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)			
	Jan. 1997	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Jan. 1997	Feb. 1997	Jan. 1998	Feb. 1998 ^P
Average hourly earnings, excluding lump-sum payments	\$20.50	\$20.63	\$20.84	\$20.87	\$20.43	\$20.67	\$21.26	\$21.50
Average hourly earnings, including lump-sum payments	20.88	21.02	20.86	20.89	20.43	20.67	21.45	21.66

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

B-16. Average hourly earnings, excluding overtime,¹ of production workers on manufacturing payrolls

Industry	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998 ^P	Mar. 1998 ^P
Manufacturing	\$12.36	\$12.39	\$12.70	\$12.73	\$12.77
Durable goods	12.85	12.88	13.20	13.22	13.26
Lumber and wood products	10.12	10.09	10.39	10.39	(2)
Furniture and fixtures	9.99	10.04	10.29	10.33	(2)
Stone, clay, and glass products	12.31	12.25	12.62	12.65	(2)
Primary metal industries	14.08	14.12	14.40	14.40	(2)
Fabricated metal products	12.08	12.09	12.30	12.32	(2)
Industrial machinery and equipment	13.08	13.10	13.47	13.50	(2)
Electronic and other electrical equipment	11.88	11.90	12.40	12.39	(2)
Transportation equipment	16.24	16.30	16.65	16.71	(2)
Instruments and related products	12.80	12.84	13.10	13.12	(2)
Miscellaneous manufacturing	10.18	10.15	10.44	10.41	(2)
Nondurable goods	11.62	11.65	11.95	11.98	\$12.03
Food and kindred products	10.72	10.81	11.03	11.03	(2)
Tobacco products	17.77	18.69	17.72	17.64	(2)
Textile mill products	9.41	9.41	9.70	9.73	(2)
Apparel and other textile products	7.97	8.00	8.19	8.17	(2)
Paper and allied products	13.95	14.06	14.31	14.38	(2)
Printing and publishing	12.40	12.45	12.77	12.82	(2)
Chemicals and allied products	15.58	15.50	15.94	16.01	(2)
Petroleum and coal products	19.11	19.20	19.35	19.56	(2)
Rubber and misc. plastics products	10.89	10.92	11.14	11.16	(2)
Leather and leather products	8.68	8.63	9.01	8.96	(2)

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

² Not available.

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

B-17. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, in current and constant (1982) dollars

Industry	Average hourly earnings					Average weekly earnings				
	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P	Feb. 1997	Mar. 1997	Jan. 1998	Feb. 1998P	Mar. 1998P
Total private:										
Current dollars	\$12.14	\$12.17	\$12.59	\$12.63	\$12.66	\$418.83	\$421.08	\$430.58	\$437.00	\$436.77
Constant (1982) dollars	7.50	7.51	7.70	7.72	(2)	258.86	259.93	263.35	267.11	(2)
Mining:										
Current dollars	16.06	15.98	16.61	16.89	\$16.96	732.34	730.29	747.45	743.16	\$734.37
Constant (1982) dollars	9.93	9.86	10.16	10.32	(2)	452.62	450.80	457.16	454.25	(2)
Construction:										
Current dollars	15.69	15.67	16.22	16.19	\$16.28	588.38	601.73	606.63	613.60	\$617.01
Constant (1982) dollars	9.70	9.67	9.92	9.90	(2)	363.65	371.44	371.03	375.06	(2)
Manufacturing:										
Current dollars	13.02	13.08	13.41	13.42	\$13.48	541.63	549.36	561.88	559.61	\$562.12
Constant (1982) dollars	8.05	8.07	8.20	8.20	(2)	334.75	339.11	343.66	342.06	(2)
Transportation and public utilities:										
Current dollars	14.66	14.70	15.22	15.19	\$15.17	579.07	580.65	596.62	604.56	\$596.18
Constant (1982) dollars	9.06	9.07	9.31	9.28	(2)	357.89	358.43	364.91	369.54	(2)
Wholesale trade:										
Current dollars	13.26	13.28	13.76	13.85	\$13.85	510.51	511.28	524.26	533.23	\$533.23
Constant (1982) dollars	8.20	8.20	8.42	8.47	(2)	315.52	315.60	320.65	325.94	(2)
Retail trade										
Current dollars	8.24	8.27	8.63	8.62	\$8.65	236.49	237.35	242.50	248.26	\$248.26
Constant (1982) dollars	5.09	5.10	5.28	5.27	(2)	146.16	146.51	148.32	151.75	(2)
Finance, insurance, and real estate:										
Current dollars	13.15	13.20	13.67	13.91	\$13.95	482.61	481.80	493.49	516.06	\$514.76
Constant (1982) dollars	8.13	8.15	8.36	8.50	(2)	298.28	297.41	301.83	315.44	(2)
Services:										
Current dollars	12.24	12.24	12.67	12.75	\$12.77	400.25	399.02	410.51	418.20	\$417.58
Constant (1982) dollars	7.56	7.56	7.75	7.79	(2)	247.37	246.31	251.08	255.62	(2)

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

² Not available.
P = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 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 area

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P	Feb. 1997	Jan. 1998	Feb. 1998P
Alabama	41.7	42.3	41.8	\$11.69	\$12.10	\$11.99	\$487.47	\$511.83	\$501.18
Birmingham	42.9	43.8	43.4	12.65	12.85	12.77	542.69	562.83	554.22
Mobile	42.6	44.4	44.6	14.05	14.17	14.23	598.53	629.15	634.66
Alaska	53.0	31.1	72.0	9.98	11.94	9.21	528.94	371.33	663.12
Arizona	41.1	41.7	41.4	11.49	11.77	11.88	472.24	490.81	491.83
Arkansas	40.7	41.7	41.0	10.63	11.00	10.97	432.64	458.70	449.77
Fayetteville-Springdale-Rogers	40.8	40.6	40.6	10.28	10.52	10.41	419.42	427.11	422.65
Fort Smith	40.5	42.7	41.5	10.59	11.06	11.01	428.90	472.26	456.92
Little Rock-North Little Rock	39.1	42.5	41.5	11.40	11.96	11.90	445.74	508.30	493.85
Pine Bluff	41.4	40.0	40.4	12.06	12.93	12.40	499.28	517.20	500.96
California	41.5	41.8	41.5	13.06	13.46	13.43	541.99	562.63	557.35
Bakersfield	41.9	41.6	41.8	13.57	13.88	13.89	568.58	577.41	580.60
Fresno	40.2	40.0	40.2	11.58	12.01	11.92	465.52	480.40	479.18
Los Angeles-Long Beach	42.2	42.6	42.4	12.27	12.62	12.56	517.79	537.61	532.54
Modesto	40.9	40.7	40.7	13.32	13.75	14.09	544.79	559.63	573.46
Oakland	42.2	42.3	41.8	15.60	15.66	15.63	658.32	662.42	653.33
Orange County	42.7	43.5	42.7	12.74	12.79	12.73	544.00	556.37	543.57
Riverside-San Bernardino	41.3	42.3	41.8	11.60	11.81	11.76	479.08	499.56	491.57
Sacramento	40.2	40.6	40.6	13.96	14.43	14.45	561.19	585.86	586.67
Salinas	37.2	37.0	37.2	13.63	13.91	13.96	507.04	514.67	519.31
San Diego	39.9	39.8	40.0	12.98	13.41	13.44	517.90	533.72	537.60
San Francisco	40.5	40.9	40.8	14.16	14.50	14.53	573.48	593.05	592.82
San Jose	41.5	42.4	42.8	16.09	16.52	16.47	667.74	700.45	704.92
Santa Barbara-Santa Maria-Lompoc	41.0	41.3	41.1	13.51	13.98	14.08	553.91	577.37	578.69
Santa Rosa	39.6	39.2	39.4	14.78	14.80	14.87	585.29	580.16	585.88
Stockton-Lodi	40.9	42.0	37.9	13.13	13.31	13.57	537.02	559.02	514.30
Vallejo-Fairfield-Napa	41.4	41.3	41.0	15.43	15.47	15.50	638.80	638.91	635.50
Ventura	42.2	43.2	43.2	12.40	12.48	12.51	523.28	539.14	540.43
Colorado	41.4	41.2	41.4	13.11	13.63	13.58	542.75	561.56	562.21
Denver	40.8	41.6	42.0	12.81	13.11	12.41	522.65	545.38	521.22
Connecticut	42.1	42.7	42.9	14.20	14.66	14.69	597.82	625.98	630.20
Bridgeport	42.8	43.2	42.7	14.87	15.20	15.28	636.44	656.64	652.46
Danbury	43.8	42.1	43.1	14.71	14.53	14.72	644.30	611.71	634.43
Hartford	42.0	43.0	44.2	15.05	15.76	15.71	632.10	677.68	694.38
New Haven-Meriden	42.1	41.7	42.4	14.02	14.72	14.66	590.24	613.82	621.58
New London-Norwich	42.3	42.3	42.0	14.64	15.15	15.07	619.27	640.85	632.94
Stamford-Norwalk	42.0	39.4	39.5	13.85	14.07	13.93	581.70	554.36	550.24
Waterbury	44.5	44.4	45.4	13.43	13.82	13.67	597.64	613.61	620.62
Delaware	41.5	40.9	41.2	14.63	14.85	15.01	607.15	607.37	618.41
Dover	39.5	40.7	41.0	13.16	13.58	13.62	519.82	552.71	558.42
Wilmington-Newark	43.0	41.7	42.3	17.67	18.20	18.41	759.81	758.94	778.74
District of Columbia:									
Washington PMSA	37.8	38.5	38.9	13.77	14.05	14.32	520.51	540.93	557.05
Florida	41.4	42.0	41.7	10.77	11.25	11.20	445.88	472.50	467.04
Georgia	41.9	42.0	41.6	11.53	11.91	11.91	483.11	500.22	495.46
Atlanta	42.4	41.8	40.6	12.53	12.89	12.87	531.27	538.80	522.52
Savannah	48.8	49.3	47.9	14.07	14.69	14.66	686.62	724.22	702.21
Hawaii	38.7	36.5	36.5	13.20	13.04	13.42	510.84	475.96	489.83
Honolulu	40.3	38.1	39.1	13.11	13.03	13.37	528.33	496.44	522.77
Idaho	39.6	37.0	37.4	12.70	12.64	12.65	502.92	467.68	473.11
Illinois	42.0	42.2	42.0	13.26	13.59	13.57	556.92	573.50	569.94
Bloomington-Normal	43.6	39.5	37.7	18.08	16.94	17.45	788.29	669.13	657.87
Champaign-Urbana	41.3	41.4	41.2	10.78	11.30	11.30	445.21	467.82	465.56
Chicago	41.9	42.7	42.4	13.14	13.45	13.43	550.57	574.32	569.43
Davenport-Moline-Rock Island	41.7	42.8	43.2	15.32	15.62	15.59	638.84	668.54	673.49
Decatur	42.8	42.7	43.0	16.36	16.78	16.76	700.21	716.51	720.68
Kankakee	41.3	41.6	41.6	14.67	15.00	14.93	605.87	624.00	621.09
Peoria-Pekin	42.3	42.4	42.9	16.50	16.65	16.59	697.95	705.96	711.71
Rockford	42.6	42.8	43.1	14.90	15.13	15.09	634.74	647.56	650.38
Springfield	43.1	41.3	41.5	11.83	12.21	12.21	509.87	504.27	506.72

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 area — Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
Indiana	42.8	43.9	42.7	\$14.79	\$15.01	\$14.86	\$633.01	\$658.94	\$634.52
Bloomington	41.0	41.0	40.7	12.81	12.05	11.91	525.21	494.05	484.74
Elkhart-Goshen	40.0	39.7	39.3	12.32	12.16	12.29	492.80	482.75	483.00
Evansville-Henderson	43.1	43.8	43.8	14.21	15.19	15.01	612.45	665.32	657.44
Fort Wayne	41.6	41.6	41.7	14.52	14.75	14.71	604.03	613.60	613.41
Gary	42.7	45.1	44.5	18.57	18.75	18.72	792.94	845.63	833.04
Indianapolis	44.1	44.3	44.0	15.64	15.74	15.68	689.72	697.28	689.92
Kokomo	48.6	52.1	48.1	18.86	20.68	20.93	916.60	1,077.43	1,006.73
Lafayette	43.6	43.7	43.4	14.51	15.87	15.83	632.64	693.52	687.02
Muncie	44.0	45.7	45.5	14.44	14.64	14.76	635.36	669.05	671.58
South Bend	41.8	41.6	42.0	12.88	12.45	12.48	538.38	517.92	524.16
Terre Haute	41.7	45.5	43.7	14.76	14.81	14.66	615.49	673.86	640.64
Iowa	41.9	43.1	42.1	13.32	13.66	13.68	558.11	588.75	575.93
Cedar Rapids	44.0	43.2	41.4	15.61	17.21	16.67	686.84	743.47	690.14
Des Moines	41.4	44.0	43.8	13.62	13.90	14.04	563.87	611.60	614.95
Dubuque	41.3	41.4	39.6	14.67	14.90	15.20	605.87	616.86	601.92
Sioux City	38.5	42.0	40.5	11.08	11.60	11.28	426.58	487.20	456.84
Kansas	42.0	42.8	42.2	13.20	13.76	13.72	554.40	588.93	578.98
Topeka	44.0	42.4	42.1	14.83	15.73	15.59	652.52	666.95	656.34
Wichita	43.9	44.2	43.2	15.36	16.26	16.26	674.30	718.69	702.43
Kentucky	41.5	41.6	42.1	13.07	13.44	13.62	542.41	559.10	573.40
Lexington	42.6	43.7	44.1	13.83	14.03	13.97	589.16	613.11	616.08
Louisville	42.3	41.3	41.9	14.39	14.92	15.26	608.70	616.20	639.39
Louisiana	42.4	43.8	43.6	14.22	14.59	14.78	602.93	639.04	644.41
Baton Rouge	43.0	43.0	43.5	16.16	17.09	17.53	694.88	734.87	762.56
New Orleans	45.4	43.8	44.1	14.48	14.76	14.54	657.39	646.49	641.21
Shreveport-Bossier City	42.7	42.0	42.1	14.00	13.80	14.52	597.80	579.60	611.29
Maine	39.8	39.9	40.5	13.13	13.54	13.28	522.57	540.25	537.84
Lewiston-Auburn	41.3	39.6	40.2	11.36	11.47	11.56	469.17	454.21	464.71
Portland	37.5	38.4	40.2	11.17	11.34	11.22	418.88	435.46	451.04
Maryland	40.7	40.7	41.0	14.04	13.97	13.98	571.43	588.58	573.18
Baltimore PMSA	41.2	40.3	41.1	14.76	14.64	14.70	608.11	589.99	604.17
Massachusetts	41.9	41.9	42.0	13.24	13.63	13.64	554.76	571.10	572.88
Boston	41.6	41.0	41.4	14.30	14.73	14.76	594.88	603.93	611.06
Springfield	41.0	41.4	41.5	12.79	13.34	13.30	524.39	552.28	551.95
Worcester	42.0	42.6	43.0	13.21	13.75	13.74	554.82	585.75	590.82
Michigan	44.3	43.9	43.4	16.97	17.37	17.45	751.77	762.54	757.33
Ann Arbor	45.3	45.5	45.2	17.55	18.98	19.01	795.01	863.59	859.25
Detroit	45.3	44.9	44.1	18.48	19.00	19.03	837.14	853.10	839.22
Flint	47.2	43.3	43.6	21.98	24.15	24.44	1,037.46	1,045.69	1,065.58
Grand Rapids-Muskegon-Holland	41.8	42.0	41.4	14.66	14.42	14.49	612.79	605.64	599.89
Jackson	41.6	42.8	43.3	13.03	13.07	13.03	542.05	559.40	564.20
Kalamazoo-Battle Creek	44.7	45.2	44.6	15.63	15.53	15.56	698.66	701.96	693.98
Lansing East Lansing	44.7	39.1	38.9	18.39	19.22	19.29	822.03	751.50	750.38
Saginaw-Bay City-Midland	48.7	44.5	45.0	20.24	20.75	21.24	985.69	923.38	955.80
Minnesota	41.1	41.6	41.4	13.52	13.91	13.80	555.67	578.66	571.32
Duluth-Superior	40.5	41.4	42.0	11.68	12.64	12.51	473.04	523.30	525.42
Minneapolis-St. Paul	41.0	41.9	42.1	14.43	14.86	14.73	591.63	622.63	620.13
St. Cloud	41.4	43.3	43.3	12.40	12.82	12.90	513.36	555.11	558.57
Mississippi	41.3	41.2	41.3	10.32	10.65	10.67	426.22	438.78	440.67
Jackson	42.1	40.4	40.2	11.95	11.84	11.87	503.10	478.34	477.17
Missouri	41.2	41.6	41.5	12.80	13.16	13.13	527.36	547.46	544.90
Kansas City	42.5	44.0	43.6	14.00	14.46	14.28	595.00	636.24	622.61
St. Louis	43.1	42.2	41.9	15.30	15.66	15.65	659.43	660.85	655.74
Springfield	38.2	41.2	39.8	11.00	11.17	11.06	420.20	460.20	440.19
Montana	39.6	39.7	40.2	13.16	13.73	13.69	521.14	545.08	550.34
Nebraska	40.4	41.8	41.1	11.93	12.10	12.00	481.97	505.78	493.20
Lincoln	44.2	45.2	44.9	13.49	14.16	13.82	596.26	640.03	620.52
Omaha	42.2	42.1	42.4	13.02	13.17	13.30	549.44	554.46	563.92
Nevada	42.6	40.0	40.7	14.36	13.76	13.67	611.74	550.40	556.37
Las Vegas	37.9	40.4	41.3	15.85	14.41	14.70	600.72	582.16	607.11

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 area — Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
New Hampshire	41.6	41.6	41.8	\$12.47	\$12.67	\$12.57	\$518.75	\$527.07	\$525.43
Manchester	41.1	39.3	39.7	13.19	14.02	13.87	542.11	550.99	550.64
Nashua	41.9	41.1	41.7	14.79	14.72	14.61	619.70	604.99	609.24
Portsmouth-Rochester	40.6	41.5	42.5	11.92	11.87	11.71	483.95	492.61	497.68
New Jersey	41.6	41.7	41.5	14.13	14.51	14.49	587.81	605.07	601.34
New Mexico	40.1	38.9	39.4	11.16	12.76	12.72	447.52	496.36	501.17
Albuquerque	40.8	40.7	41.3	11.70	13.85	13.87	477.36	563.70	572.83
New York	40.8	41.4	41.0	13.03	13.42	13.44	531.62	555.59	551.04
Albany-Schenectady-Troy	41.3	41.8	41.7	14.50	14.63	14.55	598.85	611.53	606.74
Binghamton	40.3	42.1	41.3	10.03	10.36	10.45	404.21	436.16	431.59
Buffalo-Niagara Falls	43.0	43.3	42.9	16.26	16.90	17.21	699.18	731.77	738.31
Dutchess County	38.7	38.7	39.8	11.97	12.30	12.17	463.24	476.01	484.37
Elmira	40.5	42.1	41.5	11.91	12.58	12.64	482.36	529.62	524.56
Nassau-Suffolk	39.6	40.0	40.0	12.09	12.42	12.37	478.76	496.80	494.80
New York PMSA	38.6	39.4	38.9	11.87	12.34	12.35	458.18	486.20	480.42
New York City	38.1	39.2	38.8	11.66	12.10	12.15	444.25	474.32	471.42
Newburgh	41.6	40.4	41.8	11.42	11.79	11.55	475.07	476.32	482.79
Rochester	42.4	42.5	41.9	14.83	14.82	14.89	628.79	629.85	623.89
Rockland County	43.7	41.7	38.9	15.56	15.62	15.13	679.97	651.35	588.56
Syracuse	43.1	43.7	42.8	14.21	14.49	14.29	612.45	633.21	611.61
Utica-Rome	40.2	40.8	40.5	11.71	11.67	11.72	470.74	476.14	474.66
Westchester County	40.9	39.8	39.4	12.11	13.00	13.04	495.30	517.40	513.78
North Carolina	40.0	41.4	41.0	11.23	11.65	11.62	449.20	482.31	476.42
Asheville	39.9	43.1	42.8	10.91	11.23	11.16	435.31	484.01	477.65
Charlotte-Gastonia-Rock Hill	40.5	40.9	40.3	12.18	12.64	12.66	493.29	516.98	510.20
Greensboro-Winston-Salem-High Point	39.3	40.7	40.4	11.44	11.83	11.70	449.59	481.48	472.68
Raleigh-Durham-Chapel Hill	41.1	41.3	41.2	12.16	12.70	12.65	499.78	524.51	521.18
North Dakota	41.7	40.1	40.1	11.23	11.42	11.30	468.29	457.94	453.13
Fargo-Moorhead	39.1	38.2	39.2	10.86	11.02	10.96	424.63	420.96	429.63
Ohio	43.6	43.4	43.1	14.99	15.62	15.59	653.56	677.91	671.93
Akron	43.2	43.2	43.2	12.72	12.97	12.94	549.50	560.30	559.01
Canton-Massillon	41.4	43.2	42.5	13.34	13.80	13.72	552.28	596.16	583.10
Cincinnati	42.9	43.6	43.9	14.29	14.83	14.95	613.04	646.59	656.31
Cleveland-Lorain-Elyria	43.7	44.3	43.4	14.80	15.14	15.09	646.76	670.70	654.91
Columbus	42.5	42.6	42.4	13.97	14.54	14.54	593.73	619.40	616.50
Dayton-Springfield	44.8	43.3	43.4	16.26	16.67	16.59	728.45	721.81	720.01
Hamilton-Middletown	45.0	46.1	46.3	16.30	17.14	17.22	733.50	790.15	797.29
Lima	44.0	43.9	42.9	15.95	16.33	16.08	701.80	716.89	689.83
Mansfield	44.4	44.0	42.7	15.81	16.34	16.10	701.96	718.96	687.47
Steubenville-Weirton	42.9	42.4	42.5	15.29	16.89	16.96	655.94	716.14	720.80
Toledo	44.2	43.3	43.8	16.68	16.74	16.99	737.26	724.84	744.16
Youngstown-Warren	43.7	42.3	42.3	16.92	17.79	17.83	739.40	752.52	754.21
Oklahoma	41.5	42.3	41.8	12.36	12.62	12.47	512.94	533.83	521.25
Oklahoma City	42.7	43.7	42.8	14.14	14.25	13.91	603.78	622.73	595.35
Tulsa	41.8	43.4	43.4	12.60	12.98	12.91	526.68	563.33	560.29
Oregon	40.7	39.0	40.5	13.27	13.80	13.80	540.09	538.20	558.90
Eugene-Springfield	39.7	39.1	40.3	12.94	13.18	13.45	513.72	515.34	542.04
Medford-Ashland	40.8	38.7	39.0	11.92	12.51	12.68	486.34	484.14	494.52
Portland-Vancouver	41.4	38.6	41.2	13.25	13.88	13.77	548.55	535.77	567.32
Salem	40.6	37.6	38.7	11.79	11.91	11.88	478.67	447.82	459.76
Pennsylvania	41.6	42.1	41.7	13.65	14.00	13.98	567.84	589.40	582.97
Allentown-Bethlem-Easton	41.9	41.8	42.4	13.68	14.40	14.23	573.19	601.92	603.35
Altoona	40.7	39.9	40.2	11.22	11.99	11.86	456.65	478.40	476.77
Erie	44.2	45.2	44.2	13.76	14.11	14.13	608.19	637.77	624.55
Harrisburg-Lebanon-Carlisle	39.7	40.1	39.9	12.97	13.50	13.44	514.91	541.35	536.26
Johnstown	40.1	40.4	40.4	9.98	10.21	10.38	400.20	412.48	419.35
Lancaster	40.3	40.6	40.8	12.51	12.93	12.97	504.15	524.96	529.18
Philadelphia PMSA	41.5	41.3	41.3	14.69	15.25	15.21	609.64	629.83	628.17
Pittsburgh	42.8	42.9	42.5	14.65	14.82	14.84	627.02	635.78	630.70
Reading	41.7	43.0	41.8	14.74	15.11	15.27	614.66	649.73	638.29
Scranton-Wilkes-Barre-Hazleton	40.5	40.8	41.0	12.28	12.72	12.56	497.34	518.98	514.96
Sharon	44.1	43.2	42.7	14.47	14.98	14.94	638.13	647.14	637.94
State College	42.1	42.2	42.1	11.77	12.15	12.00	495.52	512.73	505.20
Williamsport	41.9	41.8	40.8	11.35	11.28	11.21	475.57	471.50	457.37
York	41.9	42.8	42.3	13.77	14.19	14.27	576.96	607.33	603.62

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 area — Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P	Feb. 1997	Jan. 1998	Feb. 1998 ^P
Rhode Island	40.4	41.2	41.2	\$11.15	\$11.48	\$11.55	\$450.46	\$472.98	\$475.86
Providence-Fall River-Warwick	41.1	41.6	41.7	11.40	11.59	11.58	468.54	482.14	482.89
South Carolina	41.8	42.5	42.4	10.30	10.42	10.44	430.54	442.85	442.66
South Dakota	41.9	42.3	42.3	9.90	9.99	10.04	414.81	422.58	424.69
Rapid City	40.3	41.1	41.0	9.65	10.07	10.15	388.90	413.88	416.15
Sioux Falls	41.6	42.9	43.1	10.21	10.48	10.50	424.74	449.59	452.55
Tennessee	40.8	41.1	40.8	11.40	11.91	11.98	465.12	489.50	488.78
Chattanooga	42.2	41.8	42.4	10.63	11.05	10.94	448.59	461.89	463.86
Johnson City-Kingsport-Bristol	40.0	38.6	38.9	12.44	12.50	12.58	497.60	482.50	489.36
Knoxville	39.4	41.1	40.8	10.98	11.77	11.91	432.61	483.75	485.93
Memphis	42.2	39.6	39.7	11.98	12.34	12.37	505.56	488.66	491.09
Nashville	40.9	42.2	41.3	12.24	12.95	13.00	500.62	546.49	536.90
Texas	43.1	43.9	43.5	11.96	12.11	12.13	515.48	531.63	527.66
Dallas	43.6	42.7	41.9	12.11	12.32	12.29	528.00	526.06	514.95
Ft. Worth-Arlington	43.7	43.3	42.7	12.53	12.91	12.98	547.56	559.00	554.25
Houston	45.1	46.0	45.5	13.61	14.21	14.20	613.81	653.66	646.10
San Antonio	40.4	42.2	41.9	9.62	9.73	9.72	388.65	410.61	407.27
Utah	40.0	39.4	39.8	12.78	13.00	12.95	511.20	512.20	515.41
Salt Lake City-Ogden	39.8	39.4	39.8	12.58	12.77	12.82	500.68	503.14	510.24
Vermont	40.2	40.3	39.2	12.47	12.79	12.86	501.29	515.44	504.11
Burlington	43.7	44.0	43.3	13.01	13.49	13.44	568.54	593.56	581.95
Virginia	41.3	42.3	42.0	12.31	12.83	12.82	508.40	542.71	538.44
Bristol	43.2	41.0	40.8	9.78	10.48	10.42	422.50	429.68	425.14
Charlottesville	42.8	42.4	44.0	9.74	10.21	10.40	416.87	432.90	457.60
Danville	41.9	42.6	42.3	12.18	12.83	12.95	510.34	546.56	547.79
Lynchburg	40.6	45.0	45.3	11.96	12.56	12.56	485.58	565.20	568.97
Northern Virginia	39.8	41.2	41.2	12.19	12.98	12.82	485.16	534.78	528.18
Richmond-Petersburg	42.3	41.5	40.6	15.53	15.57	15.67	656.92	646.16	636.20
Roanoke	38.2	42.6	41.5	13.97	15.00	14.25	533.65	639.00	591.38
Washington	39.7	39.7	40.8	15.10	15.66	15.64	599.47	621.70	638.11
West Virginia	41.6	41.5	41.5	12.95	13.41	13.37	538.72	556.52	554.86
Charleston	46.7	45.9	46.9	14.26	15.42	14.90	665.94	707.78	698.81
Huntington-Ashland	42.5	42.9	42.7	14.86	14.51	14.42	631.55	622.48	615.73
Parkersburg-Marietta	44.0	42.2	45.1	16.52	16.86	16.99	726.88	711.49	766.25
Wheeling	39.6	39.5	40.2	13.76	15.79	15.65	544.90	623.71	629.13
Wisconsin	42.2	41.9	41.7	13.51	13.90	13.88	570.12	582.41	578.80
Appleton-Oshkosh-Neenah	44.7	45.4	44.9	14.48	14.81	14.78	647.26	672.37	663.62
Eau Claire	44.2	41.8	40.5	13.00	12.90	12.91	574.60	539.22	522.86
Green Bay	42.1	41.9	41.3	14.57	15.05	15.07	613.40	630.60	622.39
Janesville-Beloit	45.8	41.7	44.0	17.23	17.19	17.62	789.13	716.82	775.28
Kenosha	39.2	41.1	40.7	14.23	15.48	15.16	557.82	636.23	617.01
La Crosse	41.6	41.8	42.5	12.02	12.15	12.22	500.03	507.87	519.35
Madison	41.3	40.0	39.9	12.78	12.99	13.09	527.81	519.60	522.29
Milwaukee-Waukesha	41.8	42.3	42.1	14.70	14.96	14.88	614.46	632.81	626.45
Racine	41.6	41.9	42.8	13.91	14.19	14.45	578.66	594.56	618.46
Sheboygan	43.8	41.0	41.1	13.02	13.62	12.92	570.28	558.42	531.01
Wausau	41.6	43.0	41.9	12.99	13.35	13.24	540.38	574.05	554.76
Wyoming	40.3	40.5	40.2	14.40	15.58	15.26	580.32	630.99	613.45
Puerto Rico	39.6	39.6	39.8	7.90	8.40	8.35	312.84	332.64	332.33
Virgin Islands	42.1	42.3	39.8	17.54	19.06	18.35	738.43	806.24	730.33

^P = preliminary.

State and area data have been adjusted to March 1997 benchmarks.

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

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

C-1. Labor force status by census region and division, seasonally adjusted¹

(Numbers in thousands)

Census region and division	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P
NORTHEAST													
Civilian labor force	26,022.1	26,071.1	26,094.6	26,126.6	26,135.7	26,159.5	26,153.9	26,142.6	26,140.0	26,114.2	26,078.5	26,077.0	26,098.4
Employed	24,587.3	24,636.7	24,659.9	24,693.4	24,706.7	24,744.0	24,748.0	24,749.8	24,771.1	24,769.1	24,758.5	24,799.0	24,809.9
Unemployed	1,434.8	1,434.4	1,434.7	1,433.2	1,428.9	1,415.5	1,405.9	1,392.8	1,368.8	1,345.1	1,320.0	1,278.0	1,288.5
Unemployment rate	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.2	5.2	5.1	4.9	4.9
New England													
Civilian labor force	7,083.2	7,096.1	7,112.1	7,120.1	7,122.9	7,128.7	7,130.7	7,131.3	7,140.9	7,137.9	7,132.8	7,130.7	7,120.9
Employed	6,760.9	6,775.8	6,784.8	6,796.7	6,803.3	6,815.2	6,819.0	6,822.6	6,837.6	6,839.4	6,840.1	6,861.1	6,864.7
Unemployed	322.4	320.4	327.3	323.4	319.6	313.5	311.7	308.7	303.3	298.5	292.7	269.7	256.2
Unemployment rate	4.6	4.5	4.6	4.5	4.5	4.4	4.4	4.3	4.2	4.2	4.1	3.8	3.6
Middle Atlantic													
Civilian labor force	18,938.9	18,974.9	18,982.5	19,006.6	19,012.7	19,030.8	19,023.2	19,011.3	18,999.1	18,976.3	18,945.7	18,946.3	18,977.5
Employed	17,826.5	17,860.9	17,875.1	17,896.7	17,903.4	17,928.8	17,929.0	17,927.2	17,933.5	17,929.8	17,918.4	17,937.9	17,945.2
Unemployed	1,112.4	1,114.0	1,107.5	1,109.9	1,109.3	1,102.0	1,094.2	1,084.1	1,065.5	1,046.5	1,027.3	1,008.3	1,032.3
Unemployment rate	5.9	5.9	5.8	5.8	5.8	5.8	5.8	5.7	5.6	5.5	5.4	5.3	5.4
SOUTH													
Civilian labor force	46,846.5	46,907.0	46,960.3	47,041.6	47,116.6	47,215.1	47,278.9	47,364.2	47,490.8	47,600.5	47,694.8	47,816.2	47,791.8
Employed	44,453.1	44,523.2	44,599.6	44,675.3	44,738.5	44,861.3	44,961.2	45,063.7	45,245.0	45,387.7	45,523.3	45,689.9	45,744.6
Unemployed	2,393.4	2,383.9	2,360.6	2,366.3	2,378.2	2,353.9	2,317.7	2,300.6	2,245.9	2,212.8	2,171.5	2,126.3	2,047.2
Unemployment rate	5.1	5.1	5.0	5.0	5.0	5.0	4.9	4.9	4.7	4.6	4.6	4.4	4.3
South Atlantic													
Civilian labor force	24,203.6	24,239.5	24,275.7	24,325.9	24,365.4	24,413.3	24,456.8	24,502.9	24,569.1	24,635.4	24,677.1	24,738.2	24,747.7
Employed	23,057.9	23,104.6	23,150.4	23,197.5	23,235.9	23,301.7	23,355.7	23,410.1	23,503.8	23,575.5	23,630.4	23,695.5	23,723.4
Unemployed	1,145.7	1,134.9	1,125.3	1,128.4	1,129.5	1,111.6	1,101.1	1,092.8	1,065.2	1,060.0	1,046.7	1,042.6	1,024.2
Unemployment rate	4.7	4.7	4.6	4.6	4.6	4.6	4.5	4.5	4.3	4.3	4.2	4.2	4.1
East South Central													
Civilian labor force	8,024.7	8,030.0	8,039.8	8,051.5	8,067.5	8,092.5	8,085.8	8,097.1	8,118.6	8,135.3	8,145.8	8,144.8	8,130.1
Employed	7,581.4	7,588.3	7,602.4	7,611.7	7,622.5	7,646.7	7,654.0	7,663.0	7,700.9	7,725.7	7,748.2	7,775.6	7,779.8
Unemployed	443.3	441.7	437.4	439.9	445.1	445.8	431.7	434.1	417.7	409.7	397.5	369.1	350.3
Unemployment rate	5.5	5.5	5.4	5.5	5.5	5.5	5.3	5.4	5.1	5.0	4.9	4.5	4.3
West South Central													
Civilian labor force	14,618.3	14,637.5	14,644.8	14,664.2	14,683.7	14,709.3	14,736.4	14,764.3	14,803.2	14,829.8	14,871.9	14,933.3	14,914.1
Employed	13,813.8	13,830.3	13,846.9	13,866.2	13,880.1	13,912.9	13,951.5	13,990.6	14,040.3	14,086.6	14,144.7	14,218.8	14,241.5
Unemployed	804.4	807.2	798.0	798.0	803.6	796.4	784.9	773.7	762.9	743.2	727.2	714.5	672.6
Unemployment rate	5.5	5.5	5.4	5.4	5.5	5.4	5.3	5.2	5.2	5.0	4.9	4.8	4.5

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 adjusted¹ — Continued

(Numbers in thousands)

Census region and division	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P
MIDWEST													
Civilian labor force	32,804.3	32,811.4	32,830.1	32,851.3	32,860.8	32,923.9	32,955.3	33,007.1	33,106.2	33,170.2	33,246.3	33,363.0	33,375.9
Employed	31,406.3	31,447.5	31,477.4	31,540.1	31,553.2	31,608.1	31,651.0	31,697.0	31,803.8	31,877.5	31,959.7	32,117.0	32,148.7
Unemployed	1,398.0	1,363.8	1,352.7	1,311.2	1,307.6	1,315.7	1,304.3	1,310.2	1,302.5	1,292.6	1,286.6	1,246.0	1,227.2
Unemployment rate	4.3	4.2	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7	3.7
East North Central													
Civilian labor force	22,744.8	22,754.5	22,776.4	22,795.0	22,798.5	22,843.0	22,859.6	22,885.1	22,949.1	22,987.8	23,027.2	23,113.2	23,117.6
Employed	21,728.0	21,762.6	21,795.3	21,843.0	21,841.8	21,872.6	21,898.4	21,918.7	21,982.3	22,024.9	22,068.0	22,182.4	22,200.0
Unemployed	1,016.8	991.9	981.1	952.0	956.7	970.5	961.2	966.4	966.8	962.9	959.3	930.8	917.5
Unemployment rate	4.5	4.4	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	4.0
West North Central													
Civilian labor force	10,059.5	10,056.9	10,053.8	10,056.3	10,062.3	10,080.8	10,095.7	10,122.0	10,157.1	10,182.3	10,219.1	10,249.8	10,258.3
Employed	9,678.3	9,685.0	9,682.2	9,697.1	9,711.4	9,735.6	9,752.6	9,778.2	9,821.4	9,852.6	9,891.7	9,934.6	9,948.7
Unemployed	381.2	371.9	371.6	359.3	350.9	345.3	343.1	343.8	335.7	329.7	327.4	315.2	309.7
Unemployment rate	3.8	3.7	3.7	3.6	3.5	3.4	3.4	3.4	3.3	3.2	3.2	3.1	3.0
WEST													
Civilian labor force	29,662.6	29,733.6	29,829.6	29,872.3	29,942.0	30,058.3	30,127.4	30,185.9	30,265.7	30,323.8	30,425.5	30,478.9	30,486.9
Employed	27,922.1	28,019.8	28,124.3	28,201.8	28,275.7	28,404.9	28,478.0	28,532.5	28,634.1	28,713.7	28,819.0	28,893.5	28,945.2
Unemployed	1,740.5	1,713.8	1,705.4	1,670.5	1,666.3	1,653.4	1,649.4	1,653.4	1,631.6	1,610.2	1,606.5	1,585.4	1,541.7
Unemployment rate	5.9	5.8	5.7	5.6	5.6	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1
Mountain													
Civilian labor force	8,295.5	8,302.4	8,324.2	8,341.8	8,365.8	8,400.4	8,420.9	8,458.2	8,507.1	8,550.2	8,599.7	8,633.8	8,672.6
Employed	7,912.8	7,932.2	7,954.4	7,982.2	8,009.0	8,046.1	8,069.8	8,107.6	8,159.7	8,201.2	8,250.1	8,298.2	8,324.7
Unemployed	382.7	370.1	369.8	359.6	356.8	354.3	351.1	350.6	347.5	349.0	349.7	335.6	347.9
Unemployment rate	4.6	4.5	4.4	4.3	4.3	4.2	4.2	4.1	4.1	4.1	4.1	3.9	4.0
Pacific													
Civilian labor force	21,367.1	21,431.3	21,505.4	21,530.5	21,576.2	21,657.9	21,706.5	21,727.7	21,758.6	21,773.6	21,825.8	21,845.1	21,814.3
Employed	20,009.3	20,087.6	20,169.8	20,219.6	20,266.7	20,358.8	20,408.2	20,424.9	20,474.5	20,512.5	20,569.0	20,595.3	20,620.5
Unemployed	1,357.8	1,343.7	1,335.6	1,310.9	1,309.5	1,299.1	1,298.3	1,302.8	1,284.2	1,261.1	1,256.8	1,249.8	1,193.8
Unemployment rate	6.4	6.3	6.2	6.1	6.1	6.0	6.0	6.0	5.9	5.8	5.8	5.7	5.5

^P = preliminary.

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

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

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

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
Alabama													
Civilian labor force	2,165.4	2,173.9	2,180.7	2,185.8	2,187.7	2,189.7	2,182.2	2,178.1	2,172.7	2,164.6	2,154.1	2,146.3	2,140.3
Employed	2,053.8	2,062.8	2,066.7	2,071.6	2,071.6	2,074.4	2,070.3	2,067.4	2,067.0	2,061.9	2,055.0	2,057.3	2,058.8
Unemployed	111.6	111.2	114.1	114.2	116.1	115.3	111.9	110.7	105.7	102.7	99.1	89.1	81.5
Unemployment rate	5.2	5.1	5.2	5.2	5.3	5.3	5.1	5.1	4.9	4.7	4.6	4.1	3.8
Alaska													
Civilian labor force	315.5	315.5	315.3	314.3	314.9	315.8	316.1	316.7	317.0	317.4	318.5	317.6	318.0
Employed	289.3	289.3	289.2	289.4	289.8	290.5	291.0	292.1	293.0	294.4	295.9	297.8	297.9
Unemployed	26.2	26.2	26.1	24.9	25.1	25.1	25.1	24.5	24.0	23.1	22.6	19.8	20.1
Unemployment rate	8.3	8.3	8.3	7.9	8.0	8.0	7.9	7.7	7.6	7.3	7.1	6.2	6.3
Arizona													
Civilian labor force	2,149.5	2,140.1	2,141.0	2,140.7	2,141.3	2,147.8	2,157.2	2,170.8	2,188.9	2,211.5	2,237.7	2,243.0	2,253.2
Employed	2,036.7	2,034.9	2,035.8	2,039.1	2,043.0	2,050.2	2,061.6	2,076.2	2,095.7	2,116.8	2,144.7	2,159.2	2,163.6
Unemployed	112.8	105.2	105.2	101.6	98.4	97.6	95.5	94.6	93.3	94.7	93.0	83.8	89.6
Unemployment rate	5.2	4.9	4.9	4.7	4.6	4.5	4.4	4.4	4.3	4.3	4.2	3.7	4.0
Arkansas													
Civilian labor force	1,204.0	1,201.2	1,198.3	1,196.6	1,199.6	1,205.2	1,210.2	1,213.3	1,219.8	1,229.7	1,240.6	1,245.8	1,243.7
Employed	1,138.0	1,135.9	1,135.5	1,135.1	1,135.2	1,139.6	1,145.8	1,150.3	1,158.2	1,167.9	1,178.5	1,180.2	1,178.5
Unemployed	65.9	65.3	62.8	61.5	64.4	65.6	64.4	63.0	61.6	61.7	62.1	65.6	65.2
Unemployment rate	5.5	5.4	5.2	5.1	5.4	5.4	5.3	5.2	5.0	5.0	5.0	5.3	5.2
California													
Civilian labor force	15,809.8	15,856.1	15,910.2	15,935.7	15,962.4	16,014.3	16,050.6	16,058.0	16,073.4	16,086.1	16,122.8	16,114.0	16,120.0
Employed	14,772.2	14,833.8	14,891.5	14,927.9	14,957.7	15,019.5	15,054.3	15,058.7	15,084.1	15,112.5	15,151.8	15,145.7	15,188.6
Unemployed	1,037.6	1,022.3	1,018.7	1,007.8	1,004.8	994.8	996.3	999.4	989.3	973.6	971.0	968.3	931.4
Unemployment rate	6.6	6.4	6.4	6.3	6.3	6.2	6.2	6.2	6.2	6.1	6.0	6.0	5.8
Colorado													
Civilian labor force	2,120.9	2,128.9	2,137.8	2,143.9	2,154.3	2,166.3	2,166.9	2,177.5	2,189.1	2,196.4	2,199.7	2,216.2	2,232.9
Employed	2,047.2	2,056.0	2,065.6	2,073.7	2,084.7	2,097.7	2,098.1	2,108.9	2,122.6	2,129.0	2,132.8	2,153.1	2,165.8
Unemployed	73.8	72.9	72.2	70.2	69.7	68.6	68.8	68.6	66.5	67.4	66.9	63.1	67.1
Unemployment rate	3.5	3.4	3.4	3.3	3.2	3.2	3.2	3.1	3.0	3.1	3.0	2.8	3.0
Connecticut													
Civilian labor force	1,720.8	1,720.5	1,722.2	1,721.0	1,721.7	1,722.0	1,722.9	1,723.9	1,725.7	1,726.6	1,728.2	1,720.0	1,717.0
Employed	1,626.3	1,627.9	1,629.0	1,630.1	1,632.2	1,634.9	1,637.8	1,639.7	1,643.1	1,646.6	1,650.7	1,654.7	1,652.1
Unemployed	94.5	92.6	93.3	91.0	89.5	87.1	85.1	84.2	82.6	80.0	77.5	65.3	64.9
Unemployment rate	5.5	5.4	5.4	5.3	5.2	5.1	4.9	4.9	4.8	4.6	4.5	3.8	3.8
Delaware													
Civilian labor force	377.7	377.4	376.3	376.4	377.6	378.6	379.7	380.5	381.9	383.9	387.0	387.9	388.6
Employed	360.2	360.6	360.0	360.4	361.6	363.3	365.1	366.7	368.7	371.2	374.0	374.6	375.1
Unemployed	17.5	16.8	16.3	16.0	15.9	15.3	14.6	13.8	13.3	12.7	13.0	13.3	13.6
Unemployment rate	4.8	4.5	4.3	4.3	4.2	4.0	3.8	3.6	3.5	3.3	3.4	3.4	3.5
District of Columbia													
Civilian labor force	259.7	259.2	258.1	256.9	254.3	255.0	256.2	256.1	255.7	255.6	255.7	258.5	260.5
Employed	239.6	239.1	238.2	237.2	234.7	234.9	235.6	235.0	234.6	234.8	234.9	236.7	237.0
Unemployed	20.1	20.1	19.9	19.7	19.6	20.1	20.6	21.1	21.1	20.8	20.8	21.8	23.5
Unemployment rate	7.7	7.8	7.7	7.7	7.7	7.9	8.0	8.2	8.3	8.1	8.1	8.4	9.0
Florida													
Civilian labor force	7,005.0	7,013.0	7,040.6	7,061.5	7,079.1	7,106.1	7,129.9	7,152.5	7,189.9	7,221.2	7,253.6	7,265.1	7,247.5
Employed	6,665.8	6,672.5	6,698.5	6,720.0	6,739.6	6,774.0	6,796.1	6,817.0	6,856.0	6,884.3	6,916.0	6,927.2	6,922.3
Unemployed	339.1	340.5	342.2	341.5	339.5	332.1	333.8	335.5	333.9	337.0	337.7	337.8	325.2
Unemployment rate	4.8	4.9	4.9	4.8	4.8	4.7	4.7	4.7	4.6	4.7	4.7	4.7	4.5

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
Georgia													
Civilian labor force	3,872.7	3,887.4	3,895.4	3,907.8	3,916.5	3,915.2	3,928.8	3,930.3	3,932.2	3,928.5	3,918.0	3,928.7	3,948.1
Employed	3,686.2	3,702.6	3,712.8	3,723.3	3,732.6	3,734.3	3,751.6	3,757.2	3,765.3	3,764.4	3,759.1	3,771.7	3,785.3
Unemployed	186.5	184.8	182.6	184.5	183.9	180.9	177.2	173.0	166.9	164.2	158.9	157.0	162.7
Unemployment rate	4.8	4.8	4.7	4.7	4.7	4.6	4.5	4.4	4.2	4.2	4.1	4.0	4.1
Hawaii													
Civilian labor force	592.1	591.7	590.5	590.4	591.7	592.4	592.1	592.8	592.4	592.5	593.1	593.4	592.8
Employed	553.1	552.7	551.7	551.5	552.5	553.6	554.4	555.2	556.3	557.1	557.7	560.4	558.7
Unemployed	39.0	39.1	38.8	38.9	39.2	38.8	37.7	37.6	36.1	35.4	35.4	33.0	34.1
Unemployment rate	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.3	6.1	6.0	6.0	5.6	5.7
Idaho													
Civilian labor force	627.4	628.3	630.1	631.7	633.6	634.8	634.9	636.2	638.0	638.4	641.0	640.1	641.4
Employed	593.5	594.1	596.1	597.9	599.8	601.4	600.8	602.5	604.2	605.8	607.4	608.1	608.9
Unemployed	33.9	34.3	34.1	33.8	33.9	33.4	34.1	33.7	33.7	32.6	33.6	32.0	32.4
Unemployment rate	5.4	5.5	5.4	5.4	5.4	5.3	5.4	5.3	5.3	5.1	5.2	5.0	5.1
Illinois													
Civilian labor force	6,112.3	6,116.3	6,109.7	6,111.1	6,115.8	6,132.1	6,135.3	6,133.2	6,149.5	6,156.7	6,162.1	6,190.5	6,185.4
Employed	5,816.5	5,824.4	5,826.4	5,839.8	5,834.8	5,847.1	5,852.1	5,849.2	5,862.0	5,861.9	5,867.0	5,887.8	5,903.0
Unemployed	295.8	291.9	283.2	271.2	281.0	284.9	283.2	284.0	287.6	294.8	295.1	302.7	282.4
Unemployment rate	4.8	4.8	4.6	4.4	4.6	4.6	4.6	4.6	4.7	4.8	4.8	4.9	4.6
Indiana													
Civilian labor force	3,068.0	3,078.8	3,087.0	3,092.3	3,093.6	3,098.4	3,104.6	3,103.8	3,111.2	3,113.8	3,113.0	3,115.4	3,111.5
Employed	2,963.8	2,971.9	2,980.5	2,985.3	2,986.6	2,989.6	2,991.5	2,990.9	2,997.7	3,004.6	3,003.9	3,013.6	3,011.4
Unemployed	104.2	106.9	106.5	107.0	107.0	108.9	113.0	112.7	113.5	109.2	109.1	101.8	100.1
Unemployment rate	3.4	3.5	3.4	3.5	3.5	3.5	3.6	3.6	3.6	3.5	3.5	3.3	3.2
Iowa													
Civilian labor force	1,583.6	1,583.1	1,577.7	1,575.2	1,574.6	1,572.2	1,566.3	1,571.5	1,574.0	1,573.9	1,581.7	1,589.9	1,593.8
Employed	1,526.6	1,527.5	1,523.6	1,524.1	1,523.3	1,522.7	1,519.1	1,523.4	1,528.4	1,528.6	1,535.7	1,545.4	1,552.5
Unemployed	56.6	55.6	54.0	51.1	51.3	49.5	49.2	48.1	45.7	45.3	46.0	44.5	41.3
Unemployment rate	3.6	3.5	3.4	3.2	3.3	3.1	3.1	3.1	2.9	2.9	2.9	2.6	2.6
Kansas													
Civilian labor force	1,347.1	1,347.3	1,349.8	1,349.6	1,353.5	1,365.8	1,372.2	1,377.5	1,386.2	1,394.0	1,404.4	1,407.7	1,408.9
Employed	1,293.0	1,296.1	1,297.4	1,298.4	1,303.5	1,315.9	1,322.6	1,326.9	1,335.9	1,343.4	1,351.6	1,358.9	1,361.5
Unemployed	54.1	51.2	52.4	51.1	50.0	49.9	49.7	50.6	50.4	50.6	52.7	48.8	47.4
Unemployment rate	4.0	3.8	3.9	3.8	3.7	3.7	3.6	3.7	3.6	3.6	3.8	3.5	3.4
Kentucky													
Civilian labor force	1,910.8	1,916.5	1,921.2	1,927.4	1,931.7	1,935.3	1,936.5	1,934.4	1,936.8	1,938.7	1,937.2	1,931.3	1,936.8
Employed	1,800.7	1,807.5	1,815.2	1,819.5	1,825.6	1,831.0	1,834.8	1,834.4	1,839.8	1,843.8	1,844.9	1,842.9	1,857.0
Unemployed	110.1	109.0	106.0	107.9	106.1	104.3	101.7	100.0	97.0	94.9	92.3	88.4	79.8
Unemployment rate	5.8	5.7	5.5	5.6	5.5	5.4	5.2	5.2	5.0	4.9	4.8	4.6	4.1
Louisiana													
Civilian labor force	2,011.6	2,017.6	2,019.3	2,022.1	2,019.8	2,021.3	2,024.5	2,024.5	2,034.1	2,037.2	2,043.8	2,067.6	2,037.3
Employed	1,888.2	1,891.0	1,893.8	1,891.9	1,891.2	1,895.9	1,901.8	1,904.3	1,914.4	1,917.8	1,926.5	1,962.3	1,949.3
Unemployed	123.3	126.6	125.5	130.2	128.7	125.4	122.7	120.2	119.7	119.4	117.3	105.3	88.0
Unemployment rate	6.1	6.3	6.2	6.4	6.4	6.2	6.1	5.9	5.9	5.9	5.7	5.1	4.3
Maine													
Civilian labor force	662.1	661.0	659.2	657.5	656.6	655.1	655.6	656.4	657.8	659.0	661.1	660.9	656.9
Employed	626.2	625.0	622.4	621.6	620.9	620.0	620.8	621.1	622.5	624.0	626.3	627.7	627.6
Unemployed	35.9	36.1	36.7	35.9	35.7	35.1	35.0	35.3	35.3	35.0	34.9	33.1	29.3
Unemployment rate	5.4	5.5	5.6	5.5	5.4	5.4	5.3	5.4	5.4	5.3	5.3	5.0	4.5

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P
Maryland													
Civilian labor force	2,794.8	2,793.3	2,790.2	2,790.6	2,788.3	2,787.0	2,781.4	2,783.8	2,784.1	2,789.1	2,790.8	2,803.7	2,799.2
Employed	2,654.0	2,652.1	2,647.3	2,648.7	2,642.0	2,641.7	2,838.5	2,637.7	2,644.5	2,651.8	2,657.1	2,668.8	2,667.1
Unemployed	140.8	141.2	142.9	143.9	146.4	145.3	142.9	146.1	139.6	137.4	133.7	134.9	132.1
Unemployment rate	5.0	5.1	5.1	5.2	5.2	5.2	5.1	5.2	5.0	4.9	4.8	4.8	4.7
Massachusetts													
Civilian labor force	3,242.2	3,253.4	3,261.7	3,268.9	3,267.7	3,269.7	3,271.2	3,269.1	3,268.5	3,263.2	3,254.5	3,258.8	3,257.2
Employed	3,111.7	3,121.5	3,126.3	3,132.5	3,135.1	3,138.4	3,138.3	3,138.0	3,141.2	3,136.8	3,130.3	3,141.8	3,149.3
Unemployed	130.5	131.9	135.5	134.4	132.6	131.4	132.9	131.2	127.3	126.4	124.3	116.9	107.9
Unemployment rate	4.0	4.1	4.2	4.1	4.1	4.0	4.1	4.0	3.9	3.9	3.8	3.6	3.3
Michigan													
Civilian labor force	4,970.8	4,980.5	4,983.1	4,987.5	4,977.9	4,987.3	4,971.2	4,982.3	4,999.9	5,003.4	5,013.0	5,047.2	5,050.6
Employed	4,747.9	4,762.8	4,765.9	4,778.7	4,771.7	4,774.1	4,770.5	4,779.0	4,798.9	4,804.4	4,815.7	4,849.4	4,847.8
Unemployed	222.9	217.7	217.2	208.9	206.2	213.2	200.7	203.2	200.9	199.0	197.3	197.7	202.7
Unemployment rate	4.5	4.4	4.4	4.2	4.1	4.3	4.0	4.1	4.0	4.0	3.9	3.9	4.0
Minnesota													
Civilian labor force	2,594.7	2,598.6	2,605.0	2,608.9	2,614.2	2,623.3	2,632.5	2,840.3	2,650.1	2,660.8	2,670.8	2,672.5	2,673.8
Employed	2,506.0	2,509.1	2,513.5	2,521.3	2,529.1	2,538.9	2,548.6	2,557.0	2,568.8	2,581.2	2,593.5	2,600.0	2,605.9
Unemployed	88.6	89.4	91.5	87.6	85.2	84.4	83.9	83.2	81.3	79.6	77.3	72.6	67.9
Unemployment rate	3.4	3.4	3.5	3.4	3.3	3.2	3.2	3.2	3.1	3.0	2.9	2.7	2.5
Mississippi													
Civilian labor force	1,256.8	1,257.9	1,255.9	1,258.0	1,258.4	1,266.1	1,267.7	1,272.6	1,277.6	1,278.4	1,279.3	1,284.8	1,280.9
Employed	1,181.7	1,183.1	1,184.5	1,186.9	1,186.3	1,193.8	1,193.8	1,198.1	1,204.4	1,208.8	1,213.7	1,214.9	1,211.8
Unemployed	75.1	74.8	71.4	71.1	72.1	72.5	74.0	76.5	73.2	69.6	65.6	69.8	69.1
Unemployment rate	8.0	5.9	5.7	5.7	5.7	5.7	5.8	6.0	5.7	5.4	5.1	5.4	5.4
Missouri													
Civilian labor force	2,896.1	2,890.1	2,885.2	2,882.9	2,880.4	2,876.6	2,877.2	2,883.0	2,892.3	2,892.5	2,895.0	2,911.3	2,912.1
Employed	2,763.9	2,762.9	2,759.1	2,761.7	2,762.3	2,759.1	2,759.9	2,762.8	2,772.5	2,775.6	2,779.2	2,796.3	2,793.9
Unemployed	132.2	127.2	126.2	121.2	118.2	117.5	117.3	120.3	119.9	116.9	115.7	115.0	118.2
Unemployment rate	4.6	4.4	4.4	4.2	4.1	4.1	4.1	4.2	4.1	4.0	4.0	4.0	4.1
Montana													
Civilian labor force	449.1	450.2	451.6	452.3	452.2	454.2	455.2	455.7	458.0	459.0	460.6	462.2	462.5
Employed	425.9	426.1	426.6	428.2	427.8	429.6	430.8	431.4	433.3	434.2	435.9	437.1	438.3
Unemployed	23.2	24.1	25.0	24.1	24.4	24.6	24.4	24.3	24.7	24.8	24.7	25.1	24.2
Unemployment rate	5.2	5.4	5.5	5.3	5.4	5.4	5.4	5.3	5.4	5.4	5.4	5.4	5.2
Nebraska													
Civilian labor force	899.3	899.2	897.1	898.6	900.5	903.9	906.5	910.6	913.9	919.0	923.6	924.2	925.8
Employed	872.0	873.1	872.2	873.3	875.6	880.2	883.2	888.3	893.4	899.9	905.9	907.6	907.9
Unemployed	27.2	26.1	24.9	25.3	24.9	23.7	23.3	22.3	20.5	19.1	17.7	16.6	17.9
Unemployment rate	3.0	2.9	2.8	2.8	2.8	2.6	2.6	2.5	2.2	2.1	1.9	1.8	1.9
Nevada													
Civilian labor force	868.2	871.4	874.3	878.2	882.5	885.9	888.3	892.1	895.1	897.1	900.6	905.7	910.9
Employed	830.4	834.6	837.6	842.6	846.9	850.5	853.5	856.6	859.7	861.7	864.8	866.7	869.4
Unemployed	37.8	36.7	36.7	35.6	35.6	35.4	34.8	35.6	35.4	35.4	35.8	39.0	41.4
Unemployment rate	4.4	4.2	4.2	4.1	4.0	4.0	3.9	4.0	4.0	3.9	4.0	4.3	4.5
New Hampshire													
Civilian labor force	633.8	635.2	640.3	644.7	647.0	650.9	649.1	646.3	652.8	653.2	651.2	653.3	652.7
Employed	612.8	616.0	619.4	623.9	626.0	630.8	629.5	629.1	633.3	633.7	632.1	635.4	634.6
Unemployed	21.0	19.2	20.9	20.7	21.0	20.1	19.5	19.2	19.5	19.5	19.1	17.9	18.1
Unemployment rate	3.3	3.0	3.3	3.2	3.2	3.1	3.0	3.0	3.0	3.0	2.9	2.7	2.8

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
New Jersey													
Civilian labor force	4,187.2	4,192.2	4,195.6	4,200.0	4,205.7	4,203.0	4,200.5	4,197.0	4,194.1	4,186.2	4,178.1	4,181.8	4,184.8
Employed	3,964.5	3,972.9	3,979.9	3,983.3	3,987.9	3,990.4	3,988.7	3,984.2	3,983.9	3,979.3	3,971.8	3,977.1	3,975.0
Unemployed	222.7	219.4	215.7	216.8	217.8	212.6	211.8	212.8	210.1	206.9	206.6	204.7	209.8
Unemployment rate	5.3	5.2	5.1	5.2	5.2	5.1	5.0	5.1	5.0	4.9	4.9	4.9	5.0
New Mexico													
Civilian labor force	808.7	810.8	813.2	815.8	819.2	823.1	824.1	825.7	829.8	832.8	835.5	838.1	838.2
Employed	754.2	758.3	762.5	766.7	770.2	773.5	775.8	776.2	779.8	781.3	782.2	784.9	785.9
Unemployed	54.5	52.5	50.6	49.1	49.0	49.5	48.4	49.6	50.0	51.5	53.3	51.2	52.3
Unemployment rate	6.7	6.5	6.2	6.0	6.0	6.0	5.9	6.0	6.0	6.2	6.4	6.1	6.2
New York													
Civilian labor force	8,778.2	8,803.2	8,809.4	8,819.6	8,825.2	8,841.6	8,834.9	8,825.2	8,818.5	8,799.5	8,775.9	8,786.7	8,809.7
Employed	8,205.1	8,229.5	8,238.7	8,247.4	8,253.3	8,269.8	8,266.2	8,261.8	8,281.5	8,252.7	8,241.8	8,259.4	8,267.5
Unemployed	573.1	573.8	570.8	572.2	571.9	571.8	568.7	563.4	557.0	546.7	534.0	527.2	542.2
Unemployment rate	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.2	6.1	6.0	6.2
North Carolina													
Civilian labor force	3,840.3	3,846.2	3,846.2	3,852.0	3,847.3	3,850.6	3,842.2	3,844.3	3,842.4	3,843.3	3,828.0	3,842.0	3,846.2
Employed	3,699.2	3,708.4	3,713.1	3,713.7	3,706.9	3,710.2	3,702.1	3,706.3	3,705.7	3,704.0	3,688.2	3,703.7	3,706.0
Unemployed	141.1	137.8	133.1	138.4	140.4	140.4	140.1	138.0	136.7	139.4	139.8	138.4	140.2
Unemployment rate	3.7	3.6	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.6	3.6
North Dakota													
Civilian labor force	347.2	347.8	348.5	349.9	348.2	347.6	346.9	346.7	346.1	348.3	348.1	346.2	345.9
Employed	337.8	338.1	338.5	338.7	339.0	339.1	339.0	338.9	339.5	339.2	339.1	339.8	339.3
Unemployed	9.4	9.7	10.0	11.2	9.2	8.5	7.9	7.7	6.6	7.1	7.0	6.4	6.6
Unemployment rate	2.7	2.8	2.9	3.2	2.7	2.5	2.3	2.2	1.9	2.0	2.0	1.8	1.9
Ohio													
Civilian labor force	5,677.4	5,668.5	5,679.0	5,684.7	5,687.4	5,697.4	5,718.4	5,732.3	5,746.7	5,767.0	5,788.2	5,796.7	5,803.8
Employed	5,391.1	5,401.5	5,413.6	5,427.3	5,434.6	5,444.0	5,463.1	5,473.2	5,487.0	5,510.9	5,531.5	5,561.9	5,563.9
Unemployed	286.3	267.0	265.5	257.4	252.8	253.4	255.3	259.0	259.7	256.1	256.7	234.7	239.9
Unemployment rate	5.0	4.7	4.7	4.5	4.4	4.4	4.5	4.5	4.5	4.4	4.4	4.0	4.1
Oklahoma													
Civilian labor force	1,593.9	1,595.2	1,596.8	1,597.2	1,596.0	1,598.9	1,600.0	1,603.9	1,605.0	1,607.7	1,607.5	1,608.2	1,613.2
Employed	1,526.8	1,527.3	1,528.4	1,528.8	1,527.4	1,531.6	1,534.0	1,538.4	1,542.2	1,548.9	1,550.2	1,555.4	1,555.5
Unemployed	67.1	67.9	68.4	68.4	68.6	67.3	66.0	65.6	62.8	60.8	57.3	52.7	57.7
Unemployment rate	4.2	4.3	4.3	4.3	4.3	4.2	4.1	4.1	3.9	3.8	3.6	3.3	3.6
Oregon													
Civilian labor force	1,706.0	1,709.8	1,712.7	1,705.3	1,711.5	1,720.4	1,738.1	1,751.3	1,784.7	1,767.3	1,775.4	1,807.9	1,774.4
Employed	1,599.8	1,601.7	1,609.4	1,609.0	1,612.6	1,620.2	1,638.6	1,651.3	1,665.7	1,670.6	1,681.2	1,713.8	1,690.3
Unemployed	106.2	108.1	103.3	96.4	98.8	100.2	99.5	99.9	99.0	96.5	94.2	94.1	84.1
Unemployment rate	6.2	6.3	6.0	5.7	5.8	5.8	5.7	5.7	5.6	5.5	5.3	5.2	4.7
Pennsylvania													
Civilian labor force	5,973.5	5,979.5	5,977.5	5,986.9	5,981.9	5,986.2	5,987.8	5,989.1	5,986.5	5,990.7	5,991.7	5,977.8	5,983.0
Employed	5,656.9	5,658.5	5,656.5	5,666.0	5,662.2	5,668.6	5,674.1	5,681.3	5,688.1	5,697.7	5,705.0	5,701.4	5,702.7
Unemployed	316.7	320.9	321.0	320.9	319.7	317.6	313.8	307.8	298.4	292.9	286.7	276.4	280.3
Unemployment rate	5.3	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0	4.9	4.8	4.6	4.7
Rhode Island													
Civilian labor force	501.1	502.9	505.2	505.8	505.3	505.5	508.0	507.1	507.7	506.7	507.5	508.6	506.5
Employed	474.2	475.5	477.4	477.3	477.3	478.4	479.5	480.9	481.6	481.4	482.9	484.1	482.1
Unemployed	26.9	27.5	27.9	28.5	28.0	27.1	26.5	26.2	26.0	25.2	24.6	24.5	24.5
Unemployment rate	5.4	5.5	5.5	5.6	5.5	5.4	5.2	5.2	5.1	5.0	4.9	4.8	4.8

See footnotes at end of table.

**STATE LABOR FORCE DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997											1998	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.P
South Carolina													
Civilian labor force	1,901.4	1,911.0	1,911.9	1,918.1	1,923.0	1,928.0	1,925.4	1,918.8	1,912.2	1,907.7	1,902.9	1,908.4	1,909.8
Employed	1,800.0	1,813.2	1,820.1	1,826.7	1,833.5	1,842.5	1,842.9	1,839.6	1,839.4	1,836.9	1,832.9	1,834.5	1,844.0
Unemployed	101.5	97.8	91.8	91.4	89.5	85.5	82.5	79.0	72.8	70.8	70.0	73.8	65.8
Unemployment rate	5.3	5.1	4.8	4.8	4.7	4.4	4.3	4.1	3.8	3.7	3.7	3.9	3.4
South Dakota													
Civilian labor force	391.5	390.8	390.6	391.3	390.8	391.5	392.1	392.5	394.4	395.9	397.5	398.0	398.0
Employed	378.7	378.1	377.9	379.5	378.7	379.8	380.3	380.9	383.0	384.8	386.7	386.7	387.6
Unemployed	12.9	12.6	12.7	11.8	12.1	11.7	11.8	11.6	11.3	11.2	10.8	11.3	10.4
Unemployment rate	3.3	3.2	3.2	3.0	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.8	2.6
Tennessee													
Civilian labor force	2,691.7	2,681.7	2,682.0	2,680.3	2,689.8	2,701.5	2,899.4	2,712.0	2,731.5	2,753.6	2,775.2	2,782.4	2,772.0
Employed	2,545.2	2,535.0	2,536.1	2,533.7	2,539.1	2,547.8	2,555.2	2,565.0	2,589.8	2,611.2	2,634.7	2,660.5	2,652.1
Unemployed	146.5	146.8	145.9	146.6	150.7	153.7	144.2	148.9	141.9	142.5	140.8	121.9	119.9
Unemployment rate	5.4	5.5	5.4	5.5	5.8	5.7	5.3	5.4	5.2	5.2	5.1	4.4	4.3
Texas													
Civilian labor force	9,808.8	9,823.5	9,830.4	9,848.3	9,868.2	9,883.9	9,901.6	9,922.5	9,944.2	9,955.2	9,979.9	10,011.7	10,019.9
Employed	9,260.8	9,278.1	9,289.1	9,310.3	9,326.2	9,345.7	9,369.9	9,397.6	9,425.5	9,454.0	9,489.4	9,520.9	9,558.2
Unemployed	548.0	547.4	541.3	538.0	541.9	538.2	531.7	524.9	518.8	501.3	490.5	490.9	461.7
Unemployment rate	5.6	5.6	5.5	5.5	5.5	5.4	5.4	5.3	5.2	5.0	4.9	4.9	4.6
Utah													
Civilian labor force	1,022.0	1,023.6	1,027.2	1,030.6	1,034.0	1,038.7	1,044.2	1,049.7	1,056.1	1,061.9	1,069.7	1,076.5	1,079.4
Employed	988.5	992.3	994.7	998.2	1,001.1	1,006.4	1,011.7	1,017.6	1,024.2	1,030.9	1,038.8	1,045.6	1,048.7
Unemployed	33.4	31.3	32.5	32.3	32.9	32.3	32.5	32.1	31.9	31.1	30.9	30.9	30.7
Unemployment rate	3.3	3.1	3.2	3.1	3.2	3.1	3.1	3.1	3.0	2.9	2.9	2.9	2.8
Vermont													
Civilian labor force	323.2	323.1	323.4	324.2	324.7	325.4	325.9	326.4	328.5	329.3	330.3	329.2	330.5
Employed	309.7	309.9	310.4	311.3	311.9	312.7	313.3	313.8	315.9	316.9	318.0	317.2	319.0
Unemployed	13.5	13.2	13.0	12.8	12.8	12.7	12.7	12.6	12.6	12.4	12.3	12.0	11.5
Unemployment rate	4.2	4.1	4.0	4.0	3.9	3.9	3.9	3.9	3.8	3.8	3.7	3.6	3.5
Virginia													
Civilian labor force	3,343.1	3,345.6	3,351.4	3,362.5	3,375.7	3,389.4	3,411.1	3,435.0	3,465.9	3,500.9	3,538.4	3,541.0	3,547.4
Employed	3,203.0	3,206.7	3,212.0	3,223.0	3,236.7	3,252.9	3,276.3	3,302.9	3,338.8	3,376.1	3,417.2	3,424.7	3,432.3
Unemployed	140.1	138.8	139.4	139.5	139.0	136.6	134.7	132.1	127.1	124.8	121.2	116.4	115.1
Unemployment rate	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.8	3.7	3.6	3.4	3.3	3.2
Washington													
Civilian labor force	2,943.7	2,958.1	2,976.7	2,984.7	2,995.7	3,015.2	3,009.7	3,008.9	3,011.2	3,010.2	3,016.0	3,012.2	3,009.1
Employed	2,794.9	2,810.1	2,827.9	2,841.7	2,854.1	2,875.0	2,869.9	2,867.6	2,875.3	2,877.7	2,882.4	2,877.6	2,885.1
Unemployed	148.7	148.0	148.7	143.0	141.7	140.2	139.7	141.3	135.8	132.6	133.6	134.6	124.0
Unemployment rate	5.1	5.0	5.0	4.8	4.7	4.7	4.6	4.7	4.5	4.4	4.4	4.5	4.1
West Virginia													
Civilian labor force	808.8	806.4	805.5	800.1	803.7	803.4	802.2	801.7	804.6	805.0	802.7	802.9	800.4
Employed	750.0	749.4	748.4	746.6	748.3	747.9	747.4	747.6	750.8	752.1	751.0	753.7	754.3
Unemployed	58.9	57.1	57.2	53.5	55.4	55.5	54.7	54.1	53.8	52.9	51.6	49.2	46.1
Unemployment rate	7.3	7.1	7.1	6.7	6.9	6.9	6.8	6.7	6.7	6.6	6.4	6.1	5.8
Wisconsin													
Civilian labor force	2,916.3	2,910.3	2,917.6	2,919.4	2,923.7	2,927.8	2,930.1	2,933.8	2,941.9	2,947.0	2,953.0	2,963.4	2,966.3
Employed	2,808.7	2,802.0	2,808.9	2,811.9	2,814.0	2,817.8	2,821.2	2,826.4	2,836.7	2,843.1	2,849.8	2,869.6	2,873.9
Unemployed	107.6	108.3	108.7	107.5	109.7	110.1	108.9	107.4	105.1	103.8	103.2	93.8	92.4
Unemployment rate	3.7	3.7	3.7	3.7	3.8	3.8	3.7	3.7	3.6	3.5	3.5	3.2	3.1
Wyoming													
Civilian labor force	249.8	249.1	249.1	248.5	248.4	249.7	250.1	250.5	252.1	253.0	254.9	254.0	254.2
Employed	236.5	236.0	235.5	235.8	235.5	236.9	237.5	238.2	240.1	241.4	243.5	243.5	244.0
Unemployed	13.3	13.1	13.7	12.7	12.9	12.8	12.6	12.3	12.1	11.6	11.4	10.6	10.2
Unemployment rate	5.3	5.3	5.5	5.1	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.2	4.0

P = preliminary.

revised when new benchmark and population information becomes available.

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

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

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	January		February		January		February		January		February	
	1997	1998	1997	1998 ^P	1997	1998	1997	1998 ^P	1997	1998	1997	1998 ^P
Alabama	2,137.6	2,128.4	2,156.0	2,130.9	109.5	88.8	119.4	89.1	5.1	4.2	5.5	4.2
Anniston	54.2	53.7	54.9	53.7	2.8	2.4	3.3	2.3	5.2	4.4	6.0	4.4
Birmingham	461.1	464.8	464.0	463.8	14.5	12.6	15.9	12.6	3.1	2.7	3.4	2.7
Decatur	72.6	71.3	72.9	71.1	3.9	3.0	4.4	2.9	5.4	4.2	6.0	4.1
Dothan	66.0	66.3	66.5	66.4	3.2	2.4	3.4	2.4	4.8	3.6	5.2	3.6
Florence	71.1	70.5	71.8	70.6	4.8	4.8	5.1	5.6	6.7	6.8	7.1	7.9
Gadsden	49.5	49.6	50.1	49.9	2.7	2.0	3.2	2.1	5.5	4.0	6.4	4.2
Huntsville	166.5	168.9	167.9	169.9	5.6	4.7	5.7	4.9	3.4	2.8	3.4	2.9
Mobile	263.5	262.7	265.4	264.2	13.5	9.8	14.7	9.7	5.1	3.7	5.5	3.7
Montgomery	159.3	157.6	160.6	157.5	6.7	5.2	7.3	5.2	4.2	3.3	4.5	3.3
Tuscaloosa	80.8	82.5	82.5	83.2	2.8	2.3	3.0	2.2	3.4	2.8	3.6	2.6
Alaska	310.0	311.1	311.9	312.7	31.5	24.3	32.4	24.9	10.2	7.8	10.4	8.0
Anchorage	138.5	140.8	137.7	139.4	9.2	7.4	9.8	7.5	6.6	5.2	7.1	5.3
Arizona	2,132.1	2,216.9	2,123.1	2,225.2	113.5	81.5	104.4	81.1	5.3	3.7	4.9	3.6
Flagstaff	57.7	59.7	57.6	60.4	6.3	5.1	5.6	4.9	11.0	8.5	9.8	8.0
Phoenix-Mesa	1,395.7	1,469.3	1,392.9	1,475.8	51.0	36.2	47.4	36.2	3.7	2.5	3.4	2.5
Tucson	355.8	363.9	354.5	366.5	13.5	10.0	12.5	10.0	3.8	2.7	3.5	2.7
Yuma	60.5	58.1	59.0	57.5	13.4	10.1	12.1	9.9	22.2	17.5	20.5	17.1
Arkansas	1,183.0	1,218.3	1,187.1	1,226.8	76.4	72.4	73.9	73.2	6.5	5.9	6.2	6.0
Fayetteville-Springdale-Rogers	133.3	136.9	134.3	138.6	5.4	5.1	5.1	5.2	4.1	3.8	3.8	3.8
Fort Smith	93.3	95.7	93.3	96.2	5.8	5.5	5.4	5.4	6.2	5.7	5.8	5.6
Jonesboro	39.3	40.9	39.2	41.2	2.0	1.8	1.8	1.9	5.0	4.5	4.6	4.7
Little Rock-North Little Rock	286.0	296.9	287.5	297.9	12.5	12.1	12.6	12.4	4.4	4.1	4.4	4.1
Pine Bluff	35.6	36.0	35.6	36.1	3.0	3.0	3.0	3.1	8.4	8.4	8.3	8.6
California	15,698.2	16,033.9	15,754.8	16,063.8	1,157.2	1,068.6	1,115.0	1,008.3	7.4	6.7	7.1	6.3
Bakersfield	277.9	278.4	277.9	276.5	39.3	38.9	38.8	36.8	14.2	14.0	14.0	13.3
Chico-Paradise	83.3	85.1	84.8	86.1	8.5	9.0	8.5	8.5	10.3	10.6	10.0	9.9
Fresno	419.6	428.1	420.2	424.2	67.0	71.1	66.9	67.2	16.0	16.6	15.9	15.8
Los Angeles-Long Beach	4,403.9	4,531.3	4,435.6	4,564.8	345.1	293.8	330.8	275.7	7.8	6.5	7.5	6.0
Merced	82.2	83.1	82.8	82.6	16.5	16.5	17.1	15.6	20.0	19.8	20.6	18.9
Modesto	192.8	200.1	195.3	199.1	30.1	29.3	31.0	27.9	15.6	14.6	15.9	14.0
Oakland	1,160.0	1,178.2	1,162.5	1,178.8	55.7	51.0	53.2	48.3	4.8	4.3	4.6	4.1
Orange County	1,357.6	1,392.8	1,361.3	1,396.9	50.6	43.9	47.6	41.6	3.7	3.1	3.5	3.0
Redding	73.3	74.0	72.4	72.3	8.2	8.9	8.3	8.4	11.2	12.0	11.5	11.7
Riverside-San Bernardino	1,340.8	1,372.5	1,340.9	1,371.6	99.3	89.8	94.5	84.8	7.4	6.5	7.1	6.2
Sacramento	734.1	743.8	733.8	743.5	45.4	44.8	44.1	41.9	6.2	6.0	6.0	5.6
Salinas	181.4	187.9	182.3	186.3	32.8	35.1	31.0	33.0	18.1	18.7	17.0	17.7
San Diego	1,267.7	1,281.2	1,270.0	1,286.4	61.3	49.8	58.0	47.8	4.8	3.9	4.6	3.7
San Francisco	920.9	929.5	920.1	926.2	32.6	30.3	30.8	28.7	3.5	3.3	3.3	3.1
San Jose	914.1	946.6	919.7	951.8	32.0	28.9	30.9	27.4	3.5	3.0	3.4	2.9
San Luis Obispo-Atascadero-Paso Robles	102.2	106.5	103.2	107.1	6.2	5.3	5.6	5.0	6.1	5.0	5.5	4.7
Santa Barbara-Santa Maria-Lompoc	195.2	192.4	195.4	191.3	13.2	11.4	12.3	10.7	6.7	5.9	6.3	5.6
Santa Cruz-Watsonville	139.2	143.2	141.5	144.3	16.4	15.9	16.0	15.0	11.8	11.1	11.3	10.4
Santa Rosa	234.5	239.9	235.2	239.7	10.7	10.5	10.4	10.0	4.5	4.4	4.4	4.2
Stockton-Lodi	240.2	242.6	241.7	242.4	31.4	32.3	31.4	30.6	13.1	13.3	13.0	12.6
Vallejo-Fairfield-Napa	232.5	239.3	233.6	240.9	17.5	15.8	16.5	15.0	7.5	6.6	7.0	6.2
Ventura	380.2	382.6	381.2	383.1	26.9	24.3	24.0	22.9	7.1	6.4	6.3	6.0
Visalia-Tulare-Porterville	160.5	161.5	159.4	159.1	28.9	29.8	27.7	28.2	18.0	18.4	17.4	17.7
Yolo	85.6	86.1	86.3	85.7	7.3	7.1	7.0	6.6	8.5	8.2	8.2	7.7
Yuba City	54.3	56.3	55.1	55.8	9.7	10.2	10.2	9.6	17.8	18.2	18.6	17.3
Colorado	2,080.2	2,180.0	2,084.7	2,196.3	87.7	71.7	78.6	71.6	4.2	3.3	3.8	3.3
Boulder-Longmont	157.7	167.7	159.6	170.7	5.5	4.3	5.0	4.4	3.5	2.5	3.1	2.6
Colorado Springs	235.4	241.3	236.3	242.9	10.5	8.4	9.6	8.8	4.4	3.5	4.1	3.6
Denver	1,050.5	1,093.5	1,050.1	1,098.8	38.5	29.7	34.2	29.5	3.7	2.7	3.3	2.7
Fort Collins-Loveland	126.6	134.7	127.5	136.8	5.6	4.3	5.0	4.3	4.4	3.2	3.9	3.2
Grand Junction	54.3	57.0	54.3	57.8	3.3	2.7	2.9	2.6	6.1	4.8	5.4	4.4
Greeley	75.9	81.1	77.1	82.4	4.0	3.2	3.5	3.0	5.2	4.0	4.6	3.7
Pueblo	57.1	62.1	57.2	63.2	3.4	4.2	2.9	4.3	6.0	6.7	5.1	6.7
Connecticut	1,700.0	1,695.8	1,697.5	1,693.9	109.4	77.5	104.3	74.8	6.4	4.6	6.1	4.4
Bridgeport	218.0	216.1	217.5	215.2	16.3	11.5	15.6	11.1	7.5	5.3	7.2	5.2
Danbury	106.2	107.8	105.5	106.6	4.5	3.3	4.3	3.1	4.3	3.1	4.1	2.9
Hartford	585.3	575.6	584.5	577.4	40.1	28.0	38.3	26.7	6.9	4.9	6.5	4.6
New Haven-Meriden	268.6	266.0	270.3	266.8	17.2	11.7	16.4	11.3	6.4	4.4	6.1	4.2
New London-Norwich	151.4	152.7	150.5	152.3	10.4	7.9	9.6	7.6	6.9	5.2	6.4	5.0
Stamford-Norwalk	187.1	192.1	186.9	191.5	7.4	5.4	7.2	5.4	4.0	2.8	3.9	2.8
Waterbury	116.1	118.6	116.2	117.5	8.6	6.2	8.4	6.2	7.4	5.2	7.2	5.2
Delaware	376.8	385.7	378.1	389.0	21.2	16.0	20.2	16.2	5.6	4.1	5.3	4.2
Dover	67.4	68.8	67.1	68.5	4.0	3.0	3.9	2.9	5.9	4.4	5.8	4.3
Wilmington-Newark	286.4	291.7	287.9	294.2	17.6	13.0	16.6	13.5	6.1	4.5	5.8	4.6

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	January		February		January		February		January		February	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
District of Columbia	256.4	253.8	256.8	257.5	20.4	21.8	20.6	23.9	7.9	8.6	8.0	9.3
Washington	2,475.7	2,544.5	2,475.8	2,553.0	96.5	87.7	97.8	92.1	3.9	3.4	4.0	3.6
Florida	6,906.4	7,150.0	6,915.4	7,154.9	360.3	354.4	314.9	301.8	5.2	5.0	4.6	4.2
Daytona Beach	182.8	187.5	185.1	189.7	8.5	8.1	7.3	6.4	4.6	4.3	3.9	3.4
Fort Lauderdale	726.6	752.0	728.1	753.8	38.3	39.2	34.2	34.7	5.3	5.2	4.7	4.6
Fort Myers-Cape Coral	168.3	170.5	169.4	170.9	6.3	6.1	5.5	4.9	3.7	3.6	3.3	2.9
Fort Pierce-Port St. Lucie	121.2	122.2	119.5	121.1	11.4	10.2	9.4	8.6	9.4	8.4	7.9	7.1
Fort Walton Beach	72.8	76.7	73.3	77.0	3.2	3.6	2.8	3.0	4.5	4.7	3.9	3.8
Gainesville	98.5	102.0	98.7	101.9	3.2	3.1	2.8	2.6	3.2	3.1	2.8	2.6
Jacksonville	506.9	532.2	508.6	531.3	20.9	20.7	18.1	17.6	4.1	3.9	3.6	3.3
Lakeland-Winter Haven	194.2	196.7	192.5	196.7	11.7	10.7	10.1	9.1	6.0	5.4	5.2	4.6
Melbourne-Titusville-Palm Bay	196.8	202.3	196.7	201.9	10.5	9.7	9.3	7.9	5.4	4.8	4.7	3.9
Miami	1,023.7	1,036.5	1,019.4	1,031.5	79.7	75.8	69.9	65.9	7.8	7.3	6.9	6.4
Naples	85.6	88.7	86.0	88.9	3.7	3.7	3.4	2.9	4.3	4.2	3.9	3.2
Ocala	92.3	95.2	91.8	94.4	5.1	4.9	4.3	3.9	5.5	5.1	4.7	4.2
Orlando	779.4	817.8	784.0	820.2	29.9	28.9	26.1	24.4	3.8	3.5	3.3	3.0
Panama City	62.0	64.5	62.3	64.1	5.7	6.6	4.8	4.9	9.2	10.2	7.7	7.7
Pensacola	163.2	168.4	163.8	168.4	7.8	7.9	7.0	7.0	4.8	4.7	4.3	4.2
Punta Gorda	45.3	46.3	45.3	46.2	2.1	2.2	1.9	1.7	4.6	4.8	4.2	3.7
Sarasota-Bradenton	251.0	271.4	252.0	272.2	7.9	8.3	6.6	6.5	3.2	3.0	2.6	2.4
Tallahassee	139.0	141.1	139.6	141.9	4.7	5.1	4.1	4.7	3.4	3.6	3.0	3.3
Tampa-St. Petersburg-Clearwater	1,097.1	1,144.2	1,103.3	1,150.1	43.1	43.5	38.0	36.8	3.9	3.8	3.4	3.2
West Palm Beach-Boca Raton	468.9	489.2	470.4	489.8	29.3	28.6	26.3	25.1	6.2	5.8	5.6	5.1
Georgia	3,804.9	3,879.7	3,849.1	3,924.7	173.0	145.8	186.0	162.1	4.5	3.8	4.8	4.1
Albany	56.3	56.7	56.7	57.2	3.3	3.4	3.5	3.8	5.9	6.1	6.2	6.6
Athens	70.8	72.9	72.1	74.1	2.0	2.0	2.3	2.2	2.8	2.8	3.1	2.9
Allanta	1,998.7	2,054.7	2,023.4	2,075.6	74.2	61.0	78.7	66.3	3.7	3.0	3.9	3.2
Augusta-Aiken	201.2	201.0	203.1	201.9	12.7	10.9	13.6	11.0	6.3	5.4	6.7	5.4
Columbus	119.9	121.3	120.8	121.8	5.7	4.9	5.7	5.1	4.8	4.1	4.7	4.2
Macon	148.0	151.9	149.9	154.0	6.5	6.4	6.8	7.8	4.4	4.2	4.5	5.1
Savannah	131.0	132.4	132.1	132.9	6.6	5.0	6.9	5.4	5.1	3.8	5.2	4.0
Hawaii	593.0	594.2	590.9	591.8	38.8	33.2	38.1	33.1	6.5	5.6	6.4	5.6
Honolulu	426.0	427.4	425.4	425.7	22.7	20.5	22.8	20.1	5.3	4.8	5.4	4.7
Idaho	622.5	633.7	620.9	634.9	43.6	40.6	42.2	40.8	7.0	6.4	6.8	6.4
Boise City	211.0	218.6	210.9	218.8	10.9	10.2	10.0	9.0	5.2	4.7	4.7	4.1
Pocatello	39.0	40.4	39.1	40.3	2.3	2.4	2.4	2.3	6.0	5.9	6.1	5.8
Illinois	6,052.4	6,122.2	6,056.3	6,124.3	347.3	346.3	330.3	315.8	5.7	5.7	5.5	5.2
Bloomington-Normal	78.2	82.3	80.7	83.0	2.8	3.0	2.6	2.6	3.6	3.6	3.2	3.1
Champaign-Urbana	90.3	89.5	93.3	93.8	3.3	3.2	3.2	2.9	3.7	3.5	3.4	3.1
Chicago	4,021.8	4,074.4	4,028.8	4,078.8	211.2	215.3	206.7	198.0	5.3	5.3	5.1	4.9
Davenport-Moline-Rock Island	182.0	184.8	181.5	185.8	9.2	8.0	8.7	7.6	5.1	4.3	4.8	4.1
Decatur	58.1	57.6	58.1	57.4	4.8	4.1	4.8	3.7	8.3	7.2	8.2	6.4
Kankakee	51.2	51.8	50.9	51.5	3.6	3.7	3.5	3.5	7.0	7.2	6.9	6.8
Peoria-Pekin	178.5	181.3	177.6	180.4	11.0	9.6	10.2	8.2	6.1	5.3	5.7	4.6
Rockford	193.6	195.2	192.7	195.3	13.8	10.9	9.6	10.0	7.1	5.6	5.0	5.1
Springfield	104.7	106.1	104.3	105.7	5.5	5.7	5.3	5.0	5.2	5.4	5.1	4.7
Indiana	3,006.2	3,058.9	3,022.9	3,066.0	116.2	112.7	117.5	113.1	3.9	3.7	3.9	3.7
Bloomington	60.9	63.0	61.7	62.5	1.7	1.6	1.6	1.6	2.8	2.6	2.5	2.6
Elkhart-Goshen	90.6	91.9	91.8	92.3	3.3	3.0	3.2	2.8	3.6	3.2	3.4	3.0
Evansville-Henderson	154.1	155.8	154.3	155.8	7.5	6.4	7.2	6.2	4.9	4.1	4.7	4.0
Fort Wayne	257.7	263.4	258.6	263.5	7.8	8.1	8.0	8.1	3.0	3.1	3.1	3.1
Gary	297.6	299.9	297.9	298.8	12.7	13.3	13.3	13.3	4.3	4.4	4.5	4.5
Indianapolis	801.9	827.6	807.2	831.4	23.2	23.5	23.9	23.8	2.9	2.8	3.0	2.9
Kokomo	50.7	51.1	50.6	51.1	1.7	1.7	1.8	1.8	3.4	3.4	3.5	3.5
Lafayette	86.9	89.2	89.2	90.8	2.4	2.4	2.5	2.4	2.7	2.7	2.8	2.7
Muncie	62.1	61.9	63.0	63.2	2.8	2.7	2.8	3.0	4.5	4.3	4.4	4.8
South Bend	132.7	135.3	133.4	135.5	4.7	4.6	4.9	4.8	3.6	3.4	3.6	3.5
Terre Haute	72.1	72.0	71.9	71.7	4.7	4.4	4.6	4.3	6.5	6.1	6.4	5.9
Iowa	1,570.5	1,572.1	1,570.4	1,577.0	72.4	55.6	70.3	51.2	4.6	3.5	4.5	3.2
Cedar Rapids	108.7	110.8	108.8	112.3	3.9	2.8	3.8	2.6	3.6	2.5	3.5	2.3
Des Moines	253.1	250.2	253.6	254.0	9.0	6.7	8.5	6.2	3.6	2.7	3.4	2.4
Dubuque	50.0	49.9	50.1	50.6	2.9	2.2	2.8	2.0	5.9	4.4	5.7	3.9
Iowa City	64.7	65.3	64.4	66.7	2.0	1.5	1.9	1.4	3.1	2.4	2.9	2.1
Sioux City	65.1	65.1	65.0	65.7	2.6	2.2	2.8	2.0	4.1	3.3	4.3	3.1
Waterloo-Cedar Falls	69.0	69.0	69.4	70.4	3.5	2.7	3.3	2.6	5.0	4.0	4.8	3.7

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	January		February		January		February		January		February	
	1997	1998	1997	1998 ^P	1997	1998	1997	1998 ^P	1997	1998	1997	1998 ^P
Kansas	1,337.9	1,396.7	1,335.2	1,396.1	65.6	58.2	59.1	52.3	4.9	4.2	4.4	3.7
Lawrence	50.5	54.4	51.5	55.3	2.6	2.4	2.4	2.2	5.1	4.4	4.6	3.9
Topeka	88.4	89.5	88.7	89.2	5.6	4.7	5.0	4.0	6.4	5.2	5.6	4.5
Wichita	267.2	283.2	267.0	283.7	11.2	9.4	10.2	8.6	4.2	3.3	3.8	3.0
Kentucky	1,882.0	1,903.8	1,883.4	1,904.6	129.1	102.1	127.2	92.1	6.9	5.4	6.8	4.8
Lexington	239.8	251.4	243.8	254.1	7.5	5.9	7.6	5.5	3.1	2.3	3.1	2.2
Louisville	529.3	546.9	532.6	547.1	24.5	20.0	26.6	18.8	4.6	3.7	5.0	3.4
Owensboro	48.7	49.3	48.9	49.2	3.5	2.4	3.6	2.1	7.2	4.8	7.4	4.3
Louisiana	1,982.0	2,037.3	1,981.2	2,006.6	144.1	122.9	122.4	86.9	7.3	6.0	6.2	4.3
Alexandria	58.1	59.3	57.7	58.1	4.5	3.7	3.6	2.4	7.7	6.2	6.3	4.1
Baton Rouge	281.0	291.5	284.3	290.3	16.6	14.2	14.2	10.1	5.9	4.9	5.0	3.5
Houma	84.6	90.8	85.3	90.6	4.0	3.0	3.3	2.2	4.8	3.3	3.8	2.4
Lafayette	168.2	177.9	168.9	175.7	10.6	11.0	9.1	7.7	6.3	6.2	5.4	4.4
Lake Charles	89.3	90.7	89.6	89.2	6.6	5.6	5.3	3.5	7.4	6.2	5.9	3.9
Monroe	68.9	70.7	68.9	69.5	5.2	4.3	4.4	3.0	7.5	6.1	6.4	4.3
New Orleans	609.9	619.4	606.1	611.0	37.8	29.9	32.3	21.9	6.2	4.8	5.3	3.6
Shreveport-Bossier City	182.8	188.1	181.3	184.7	14.7	12.2	12.0	8.8	8.0	6.5	6.6	4.7
Maine	652.2	649.0	650.3	644.7	43.0	40.7	44.4	37.8	6.6	6.3	6.8	5.9
Bangor	49.4	50.7	50.0	50.9	2.4	2.3	2.5	2.1	4.8	4.6	4.9	4.2
Lewiston-Auburn	52.3	52.8	51.5	51.3	3.4	3.5	3.8	3.1	6.6	6.6	7.3	6.0
Portland	131.8	133.4	130.5	131.7	4.1	4.2	4.4	4.0	3.1	3.2	3.4	3.1
Maryland	2,758.6	2,763.8	2,755.9	2,760.1	147.5	142.6	152.5	143.6	5.3	5.2	5.5	5.2
Baltimore	1,304.1	1,308.2	1,306.0	1,302.6	74.0	74.7	77.2	71.4	5.7	5.7	5.9	5.5
Cumberland	45.7	45.9	46.0	46.0	4.6	4.1	5.1	4.2	10.0	9.0	11.0	9.2
Hagerstown	70.1	71.2	69.6	71.1	4.3	3.9	4.4	4.0	6.1	5.5	6.3	5.6
Massachusetts	3,208.5	3,233.2	3,211.9	3,225.4	152.6	138.5	146.2	123.4	4.8	4.3	4.6	3.6
Barnstable-Yarmouth	66.1	68.0	65.8	66.7	5.6	5.3	5.3	4.5	8.5	7.8	8.0	6.8
Boston	1,785.7	1,796.5	1,788.5	1,793.9	67.7	60.8	65.1	54.2	3.8	3.4	3.6	3.0
Brockton	129.5	130.9	130.4	131.3	7.2	6.1	6.7	5.5	5.5	4.7	5.1	4.2
Fitchburg-Leominster	68.5	70.0	68.3	69.6	3.8	3.4	3.6	3.0	5.5	4.8	5.2	4.3
Lawrence	193.6	196.3	193.5	195.5	11.5	9.6	10.7	8.6	5.9	4.9	5.5	4.4
Lowell	159.7	165.9	159.4	165.0	7.2	6.4	6.8	5.7	4.5	3.9	4.3	3.4
New Bedford	82.7	82.6	81.6	81.6	8.5	7.6	8.0	6.9	10.3	9.2	9.8	8.4
Pittsfield	39.8	39.9	39.5	39.4	2.7	2.3	2.7	2.1	6.7	5.8	6.8	5.4
Springfield	279.4	282.5	282.0	284.0	14.2	14.1	13.5	12.5	5.1	5.0	4.8	4.4
Worcester	246.8	248.8	247.2	247.8	10.5	9.7	10.3	9.0	4.2	3.9	4.2	3.6
Michigan	4,900.5	4,974.2	4,919.3	4,999.7	263.3	231.5	249.7	229.4	5.4	4.7	5.1	4.6
Ann Arbor	287.2	291.7	289.4	295.4	9.9	7.7	9.0	7.5	3.4	2.6	3.1	2.5
Benton Harbor	82.0	81.9	82.2	82.1	5.3	4.4	5.2	4.4	6.5	5.4	6.4	5.3
Detroit	2,200.7	2,238.2	2,205.9	2,246.5	104.6	91.2	95.6	87.5	4.8	4.1	4.3	3.9
Flint	204.3	203.5	204.3	204.3	12.7	11.0	12.4	11.0	6.2	5.4	6.1	5.4
Grand Rapids-Muskegon-Holland	570.4	586.4	572.3	588.1	24.6	20.7	23.2	20.7	4.3	3.5	4.0	3.5
Jackson	75.2	75.6	75.5	75.9	4.0	3.6	3.9	3.6	5.3	4.7	5.2	4.7
Kalamazoo-Battle Creek	227.1	228.7	228.8	230.2	10.7	9.3	10.5	9.5	4.7	4.1	4.6	4.1
Lansing-East Lansing	240.0	242.8	243.3	246.0	9.1	11.1	8.7	10.5	3.8	4.6	3.6	4.3
Saginaw-Bay City-Midland	198.0	200.6	197.5	200.5	11.4	10.2	11.4	10.7	5.7	5.1	5.8	5.3
Minnesota	2,560.0	2,636.7	2,558.0	2,636.5	113.8	92.2	101.1	80.0	4.4	3.5	4.0	3.0
Duluth-Superior	121.4	123.6	120.8	123.3	7.5	6.3	7.1	5.8	6.2	5.1	5.8	4.7
Minneapolis-St. Paul	1,594.3	1,653.6	1,596.4	1,654.7	49.7	40.6	44.9	35.7	3.1	2.5	2.8	2.2
Rochester	64.5	67.3	64.1	67.1	2.0	1.5	1.8	1.3	3.1	2.3	2.7	1.9
St. Cloud	91.4	93.5	91.5	93.8	6.1	4.6	5.2	3.8	6.7	4.9	5.7	4.1
Mississippi	1,243.7	1,272.7	1,253.5	1,277.5	80.2	74.3	75.5	69.3	6.5	5.8	6.0	5.4
Biloxi-Gulfport-Pascagoula	158.7	161.6	159.9	162.5	8.5	6.4	8.1	6.0	5.4	3.9	5.0	3.7
Hattiesburg	49.7	51.7	50.0	51.8	1.7	1.6	1.5	1.5	3.4	3.1	3.1	2.9
Jackson	216.8	224.1	218.3	226.2	8.1	7.7	7.6	7.3	3.7	3.4	3.5	3.2
Missouri	2,866.9	2,878.2	2,865.1	2,881.4	154.9	134.0	144.0	130.1	5.4	4.7	5.0	4.5
Columbia	77.8	77.2	80.3	79.8	1.6	1.4	1.5	1.3	2.1	1.8	1.8	1.6
Joplin	80.5	80.0	80.8	80.3	3.6	3.2	3.4	3.0	4.5	3.9	4.2	3.8
Kansas City	945.2	983.7	945.0	986.4	39.9	37.9	37.7	35.9	4.2	3.9	4.0	3.6
St. Joseph	49.1	49.1	49.1	49.3	3.3	2.7	3.2	2.8	6.7	5.5	6.5	5.6
St. Louis LMA	1,338.1	1,337.3	1,339.0	1,345.0	64.6	60.0	59.3	57.9	4.8	4.5	4.4	4.3
Springfield	166.3	169.0	167.5	170.3	7.4	6.1	6.8	5.9	4.4	3.6	4.1	3.5
Montana	441.8	454.8	445.1	458.5	28.2	29.7	28.6	29.6	6.4	6.5	6.4	6.5
Billings	67.4	70.0	68.2	70.3	3.4	3.6	3.5	3.4	5.1	5.1	5.1	4.9
Great Falls	37.2	37.6	37.5	37.7	2.3	2.5	2.3	2.3	6.2	6.5	6.2	6.1

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							
	January		February		Number				Percent of labor force			
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
Nebraska	893.2	914.6	889.9	916.4	33.9	21.9	30.0	20.7	3.8	2.4	3.4	2.3
Lincoln	138.8	140.5	139.4	141.6	4.3	2.4	3.8	2.3	3.1	1.7	2.7	1.6
Omaha	376.4	392.0	377.8	395.2	14.0	9.2	12.5	9.0	3.7	2.4	3.3	2.3
Nevada	855.2	896.0	864.3	906.9	43.5	42.7	38.6	42.1	5.1	4.8	4.5	4.6
Las Vegas	647.0	679.5	653.6	685.8	31.0	30.1	28.1	28.6	4.8	4.4	4.3	4.2
Reno	165.8	170.1	167.1	173.4	9.1	7.9	7.7	8.3	5.5	4.6	4.6	4.8
New Hampshire	624.4	646.1	626.9	645.7	24.6	20.5	23.3	20.3	3.9	3.2	3.7	3.1
Manchester	99.3	102.8	99.0	102.4	3.4	2.8	3.2	2.8	3.4	2.7	3.3	2.7
Nashua	98.2	102.9	97.9	103.3	3.3	2.9	3.2	2.8	3.3	2.8	3.2	2.7
Portsmouth-Rochester	118.7	120.6	119.7	121.4	4.4	3.3	4.1	3.3	3.7	2.7	3.4	2.8
New Jersey	4,139.9	4,138.8	4,155.2	4,151.8	251.5	225.5	237.4	223.6	6.1	5.4	5.7	5.4
Atlantic-Cape May	169.4	169.3	168.2	170.7	19.5	19.3	17.8	18.8	11.5	11.4	10.6	11.0
Bergen-Passaic	671.6	672.2	672.9	669.0	40.4	34.4	38.3	33.6	6.0	5.1	5.7	5.0
Jersey City	285.6	279.8	285.5	281.0	25.4	22.8	23.3	22.5	8.9	8.2	8.2	8.0
Middlesex-Somerset-Hunterdon	625.4	641.0	630.7	643.9	25.6	23.3	24.5	23.6	4.1	3.6	3.9	3.7
Monmouth-Ocean	503.9	501.3	505.9	505.1	30.0	27.3	28.5	27.1	6.0	5.4	5.6	5.4
Newark	1,014.2	1,013.8	1,018.2	1,016.1	58.5	51.9	55.9	51.5	5.8	5.1	5.5	5.1
Trenton	169.6	168.3	170.6	169.2	9.3	8.1	8.7	8.0	5.5	4.8	5.1	4.8
Vineland-Millville-Bridgeton	65.5	65.9	64.8	67.0	7.1	7.0	6.6	7.0	10.8	10.6	10.2	10.4
New Mexico	801.3	830.6	804.1	833.6	61.9	56.1	53.1	51.0	7.7	6.8	6.6	6.1
Albuquerque	347.6	362.9	350.6	365.6	16.8	16.1	14.6	15.0	4.8	4.4	4.2	4.1
Las Cruces	64.7	67.8	65.0	67.9	7.4	6.9	6.5	6.6	11.4	10.2	10.0	9.7
Santa Fe	72.1	74.1	73.1	75.0	3.6	2.9	3.0	2.6	4.9	3.9	4.0	3.4
New York	8,689.1	8,719.9	8,727.8	8,759.9	620.8	576.6	622.4	591.7	7.1	6.6	7.1	6.8
Albany-Schenectady-Troy	444.7	449.6	449.2	452.1	22.0	21.7	21.9	22.2	4.9	4.8	4.9	4.9
Binghamton	122.4	125.5	123.4	125.9	6.4	6.3	6.4	6.6	5.2	5.1	5.2	5.2
Buffalo-Niagara Falls	573.5	578.7	576.0	579.2	34.3	35.9	34.4	37.0	6.0	6.2	6.0	6.4
Dutchess County	116.9	117.3	118.0	117.9	5.6	4.9	5.7	5.1	4.8	4.2	4.8	4.3
Elmira	44.1	44.5	44.1	44.4	2.1	2.1	2.1	2.3	4.8	4.7	4.7	5.3
Glens Falls	60.2	60.4	60.4	60.5	5.0	5.0	5.1	5.0	8.3	8.3	8.4	8.3
Jamestown	67.8	67.9	67.8	68.0	4.3	4.5	4.4	4.5	6.4	6.7	6.4	6.6
Nassau-Suffolk	1,359.8	1,385.6	1,359.7	1,381.3	56.0	53.7	56.8	55.3	4.1	3.9	4.2	4.0
New York	3,988.3	3,970.1	4,006.6	4,002.8	368.3	321.7	369.6	335.1	9.2	8.1	9.2	8.4
Newburgh	169.8	169.4	170.1	169.3	8.1	7.4	8.2	7.6	4.8	4.4	4.9	4.5
Rochester	564.8	568.2	568.7	569.8	26.0	26.8	26.2	27.8	4.6	4.7	4.6	4.9
Syracuse	362.2	362.9	363.3	364.0	20.7	19.2	20.3	19.6	5.7	5.3	5.6	5.4
Utica-Rome	141.2	143.0	141.0	142.4	8.9	8.8	8.7	9.1	6.3	6.2	6.1	6.4
North Carolina	3,777.9	3,774.4	3,793.8	3,798.4	161.8	155.9	156.6	155.4	4.3	4.1	4.1	4.1
Asheville	110.3	109.8	110.1	110.7	4.3	3.7	3.8	3.8	3.9	3.4	3.4	3.4
Charlotte-Gastonia-Rock Hill	734.9	741.3	739.3	746.9	25.0	21.5	24.0	21.3	3.4	2.9	3.3	2.9
Fayetteville	112.3	113.6	112.1	114.4	5.0	5.2	5.0	4.8	4.5	4.6	4.5	4.2
Goldensboro	46.5	48.0	46.7	48.3	1.8	2.3	1.8	2.1	3.9	4.9	4.0	4.4
Greensboro-Winston-Salem-High Point	636.2	633.4	637.1	638.1	19.8	20.0	20.2	20.4	3.1	3.2	3.2	3.2
Greenville	63.6	64.6	64.2	65.0	3.2	2.8	3.0	2.9	5.0	4.3	4.7	4.5
Hickory-Morganton-Lenoir	175.7	172.4	175.5	172.0	6.1	6.1	6.0	5.7	3.4	3.5	3.4	3.3
Jacksonville	44.2	44.9	44.2	45.1	1.8	2.1	1.6	2.0	4.0	4.6	3.7	4.3
Raleigh-Durham-Chapel Hill	589.8	607.0	597.3	613.5	12.9	12.2	12.4	12.4	2.2	2.0	2.1	2.0
Rocky Mount	72.4	68.0	72.2	67.7	6.5	5.2	5.8	5.0	8.9	7.7	8.0	7.4
Wilmington	106.9	104.9	107.1	106.1	5.7	5.9	4.7	5.9	5.4	5.7	4.4	5.6
North Dakota	337.5	334.6	338.4	336.8	13.2	8.1	10.4	7.3	3.9	2.4	3.1	2.2
Bismarck	52.8	52.4	53.0	52.7	2.1	1.3	1.8	1.2	4.0	2.5	3.3	2.3
Fargo-Moorhead	98.7	102.2	99.4	103.0	2.9	1.7	2.3	1.6	2.9	1.7	2.3	1.6
Grand Forks	53.0	52.9	53.6	53.6	2.0	1.4	1.7	1.3	3.8	2.7	3.2	2.4
Ohio	5,581.0	5,706.1	5,585.6	5,707.2	327.8	283.3	317.2	271.2	5.9	5.0	5.7	4.8
Akron	357.4	364.2	358.7	363.7	21.0	17.8	19.3	16.8	5.9	4.9	5.4	4.6
Canton-Massillon	199.2	203.2	199.6	204.0	12.7	10.6	12.2	10.0	6.4	5.2	6.1	4.9
Cincinnati	814.5	838.2	816.2	839.3	38.3	33.2	37.9	30.5	4.7	4.0	4.6	3.6
Cleveland-Lorain-Elyria	1,085.0	1,115.1	1,091.4	1,118.4	65.5	55.9	65.8	55.1	6.0	5.0	6.0	4.9
Columbus	782.0	811.4	784.2	812.2	28.1	24.6	26.9	23.4	3.6	3.0	3.4	2.9
Dayton-Springfield	468.8	476.0	470.2	476.7	24.0	19.5	22.7	18.7	5.1	4.1	4.8	3.9
Hamilton-Middletown	171.3	173.9	171.6	175.4	7.6	6.9	6.9	6.5	4.4	4.0	4.0	3.7
Lima	74.4	76.1	73.3	75.7	5.4	3.9	4.4	3.6	7.3	5.1	6.0	4.8
Mansfield	82.3	83.3	81.9	82.8	5.6	5.3	5.3	4.8	6.8	6.3	6.5	5.8
Steubenville-Weirton	57.5	57.1	57.4	56.3	7.4	4.6	7.6	3.8	12.9	8.0	13.2	6.8
Toledo	311.6	316.3	311.1	315.4	17.8	16.6	17.1	15.6	5.7	5.2	5.5	4.9
Youngstown-Warren	281.1	287.8	280.3	286.3	20.3	19.1	19.3	17.4	7.2	6.6	6.9	6.1

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	January		February		January		February		January		February	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
Oklahoma	1,577.5	1,589.4	1,581.6	1,601.3	82.2	63.6	75.5	66.1	5.2	4.0	4.8	4.1
Enid	27.6	28.5	27.4	28.4	1.0	0.9	1.0	0.9	3.8	3.3	3.5	3.3
Lawton	40.8	39.4	40.8	39.5	2.6	1.9	2.4	1.8	6.4	4.7	5.8	4.6
Oklahoma City	518.3	519.3	520.6	524.1	20.9	17.0	19.2	17.5	4.0	3.3	3.7	3.3
Tulsa	392.4	401.2	393.7	403.7	16.7	13.1	15.4	13.0	4.3	3.3	3.9	3.2
Oregon	1,686.1	1,775.7	1,683.1	1,752.1	124.1	109.7	125.4	103.4	7.4	6.2	7.4	5.9
Eugene-Springfield	154.9	162.1	155.3	160.4	11.2	9.8	11.3	9.4	7.2	6.1	7.3	5.8
Medford-Ashland	84.7	89.5	84.8	87.9	8.7	6.9	8.6	6.8	10.2	7.7	10.2	7.8
Portland-Vancouver	999.9	1,057.8	996.7	1,044.2	51.0	44.7	51.8	42.4	5.1	4.2	5.2	4.1
Salem	158.0	165.0	158.3	162.2	11.8	11.0	11.4	9.5	7.5	6.7	7.2	5.9
Pennsylvania	5,895.2	5,899.6	5,896.9	5,906.4	346.0	307.9	345.2	308.6	5.9	5.2	5.9	5.2
Allentown-Bethlehem-Easton	305.5	304.8	306.6	306.9	17.7	15.0	17.5	15.2	5.8	4.9	5.7	5.0
Altoona	62.0	62.5	62.2	62.5	4.1	3.5	4.0	3.5	6.6	5.6	6.5	5.6
Erie	139.1	139.2	139.7	138.9	9.4	8.2	9.4	8.2	6.7	5.9	6.8	5.9
Harrisburg-Lebanon-Carlisle	345.3	347.4	344.1	347.4	12.0	11.4	12.2	11.9	3.5	3.3	3.5	3.4
Johnstown	106.7	105.8	106.4	105.1	10.1	8.4	10.1	8.4	9.4	8.0	9.5	8.0
Lancaster	235.5	238.9	233.9	241.5	7.7	7.7	7.5	7.8	3.3	3.2	3.2	3.2
Philadelphia	2,460.7	2,455.9	2,471.4	2,458.5	130.0	113.7	127.6	114.1	5.3	4.6	5.2	4.6
Pittsburgh	1,146.4	1,145.1	1,145.3	1,143.0	65.5	60.7	65.6	61.1	5.7	5.3	5.7	5.3
Reading	181.6	182.5	180.9	183.2	8.5	7.7	8.4	8.0	4.7	4.2	4.6	4.3
Scranton-Wilkes-Barre-Hazleton	312.6	310.3	312.1	310.5	26.4	23.7	25.8	23.0	8.4	7.6	8.3	7.4
Sharon	54.1	55.5	55.5	56.0	3.2	2.8	3.2	2.7	6.0	5.1	5.8	4.9
State College	61.2	64.7	65.4	67.5	2.4	2.1	2.4	2.2	4.0	3.3	3.7	3.3
Williamsport	57.5	57.8	57.0	58.4	4.4	4.4	4.4	4.4	7.7	7.6	7.7	7.5
York	192.9	194.1	192.3	194.1	8.7	7.3	8.9	7.6	4.5	3.8	4.6	3.9
Rhode Island	498.0	506.2	501.1	506.5	31.1	28.9	33.1	30.7	6.2	5.7	6.6	6.1
Providence-Fall River-Warwick	573.1	579.3	575.3	579.2	38.0	34.5	39.6	35.4	6.6	6.0	6.9	6.1
South Carolina	1,850.0	1,866.9	1,880.3	1,888.4	107.3	76.9	108.7	72.8	5.8	4.1	5.8	3.9
Charleston-North Charleston	242.8	249.1	247.0	252.2	12.6	7.9	12.7	7.2	5.2	3.2	5.1	2.8
Columbia	261.5	263.7	266.7	268.7	8.8	5.8	9.0	5.7	3.4	2.2	3.4	2.1
Florence	63.0	61.7	63.9	62.3	4.3	2.9	4.4	2.8	6.8	4.7	6.9	4.5
Greenville-Spartanburg-Anderson	468.1	470.2	475.7	477.3	18.2	11.4	19.0	11.9	3.9	2.4	4.0	2.5
Myrtle Beach	91.5	93.8	93.0	94.2	9.3	7.2	8.2	5.5	10.2	7.6	8.8	5.9
Sumter	45.5	45.9	46.0	46.4	2.8	2.1	3.0	2.1	6.2	4.6	6.4	4.5
South Dakota	382.1	387.6	380.8	387.2	16.6	13.9	14.9	12.5	4.3	3.6	3.9	3.2
Rapid City	44.4	45.4	44.3	45.3	2.1	1.6	1.8	1.4	4.6	3.6	4.1	3.0
Sioux Falls	94.6	100.1	94.6	100.2	2.8	2.2	2.5	2.0	2.9	2.2	2.6	2.0
Tennessee	2,656.3	2,736.8	2,652.6	2,732.6	164.6	139.8	154.7	128.0	6.2	5.1	5.8	4.7
Chattanooga	218.3	224.2	219.1	223.1	11.0	10.4	11.4	9.5	5.0	4.6	5.2	4.3
Clarksville-Hopkinsville	78.6	81.2	78.7	81.5	3.7	3.5	3.7	3.1	4.7	4.3	4.6	3.8
Jackson	53.6	55.9	54.0	56.2	3.1	2.1	2.9	1.9	5.8	3.7	5.4	3.4
Johnson City-Kingsport-Bristol	224.2	231.9	223.2	231.9	12.7	12.1	11.7	10.9	5.6	5.2	5.2	4.7
Knoxville	328.5	339.2	329.0	337.5	19.7	16.8	19.4	15.4	6.0	4.9	5.9	4.6
Memphis	516.0	535.4	519.9	534.9	24.5	23.3	23.5	21.0	4.7	4.4	4.5	3.9
Nashville	596.4	628.4	599.6	629.9	22.3	19.3	20.9	17.6	3.7	3.1	3.5	2.8
Texas	9,720.2	9,928.2	9,715.7	9,922.3	590.3	531.1	568.2	478.8	6.1	5.3	5.8	4.8
Abilene	60.1	60.2	59.7	60.0	2.2	2.2	2.6	2.0	4.5	3.7	4.4	3.3
Amarillo	109.6	109.9	109.4	110.6	5.1	4.4	4.8	4.0	4.7	4.0	4.4	3.6
Austin-San Marcos	634.8	656.5	639.2	660.0	22.3	19.8	21.0	17.3	3.5	3.0	3.3	2.6
Beaumont-Port Arthur	179.1	182.1	178.9	180.1	16.1	14.5	14.4	12.5	9.0	8.0	8.0	6.9
Brazoria	104.9	105.3	104.8	105.2	8.6	7.1	7.8	6.4	8.2	6.8	7.4	6.1
Brownsville-Harlingen-San Benito	125.2	128.8	125.0	126.9	16.6	17.7	16.2	16.0	13.2	13.7	12.9	12.6
Bryan-College Station	67.1	68.7	70.1	71.7	1.7	1.4	1.7	1.2	2.6	2.0	2.4	1.7
Corpus Christi	177.8	175.2	177.2	175.1	16.2	12.2	15.2	11.3	9.1	6.9	8.6	6.4
Dallas	1,764.4	1,836.6	1,763.6	1,839.4	71.3	65.7	70.8	60.1	4.0	3.6	4.0	3.3
El Paso	288.1	285.9	286.5	285.8	35.2	30.5	34.4	28.9	12.2	10.7	12.0	10.1
Fort Worth-Arlington	825.4	847.8	826.8	850.7	34.0	30.7	33.8	28.4	4.1	3.6	4.1	3.3
Galveston-Texas City	123.2	123.9	122.9	123.0	11.3	9.3	10.4	8.1	9.2	7.5	8.5	6.6
Houston	2,022.4	2,068.7	2,019.1	2,064.7	114.5	94.9	109.4	85.2	5.7	4.6	5.4	4.1
Killeen-Temple	112.1	113.9	112.2	113.6	6.1	5.7	6.0	5.1	5.5	5.0	5.3	4.5
Laredo	70.2	71.3	69.7	70.1	8.7	7.3	8.6	6.6	12.4	10.3	12.3	9.4
Longview-Marshall	102.3	103.5	102.2	103.0	8.3	7.8	8.1	7.0	8.2	7.6	7.9	6.8
Lubbock	119.5	121.6	120.4	122.7	4.7	4.6	4.6	4.3	3.9	3.7	3.8	3.5
McAllen-Edinburg-Mission	198.2	205.1	195.7	199.8	44.3	43.2	41.2	37.5	22.3	21.1	21.0	18.8
Odessa-Midland	121.2	124.2	120.8	124.3	7.1	5.6	6.9	5.3	5.8	4.5	5.7	4.2
San Angelo	51.1	50.5	51.2	50.3	1.9	1.7	1.8	1.5	3.6	3.3	3.5	2.9
San Antonio	728.0	743.3	729.3	745.3	31.2	29.6	30.1	26.6	4.3	4.0	4.1	3.6
Sherman-Denison	49.3	49.9	49.7	49.7	2.4	2.3	2.5	2.0	4.8	4.5	5.0	4.1

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force				Unemployed							
					Number				Percent of labor force			
	January		February		January		February		January		February	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
Texas (Continued.)												
Texarkana	56.3	57.3	56.2	57.3	4.7	4.7	4.6	4.4	8.3	8.1	8.1	7.7
Tyler	87.7	89.5	87.2	89.1	5.8	5.5	5.5	4.8	6.6	6.2	6.3	5.4
Victoria	42.3	42.6	42.4	42.7	2.5	2.0	2.5	1.8	5.9	4.8	5.9	4.3
Waco	97.7	100.7	98.7	100.9	4.5	4.9	4.5	4.2	4.6	4.8	4.5	4.2
Wichita Falls	64.9	65.7	64.9	65.7	3.0	3.3	2.9	3.1	4.6	5.0	4.5	4.8
Utah												
Provo-Orem	1,008.9	1,064.0	1,007.2	1,063.1	35.2	31.9	37.3	34.3	3.5	3.0	3.7	3.2
Salt Lake City-Ogden	150.0	156.7	150.5	157.8	4.5	3.8	4.8	4.2	3.0	2.4	3.2	2.7
Vermont												
Burlington	648.8	685.7	646.9	684.9	20.0	19.4	21.3	20.7	3.1	2.8	3.3	3.0
Vermont												
Burlington	318.2	324.9	321.2	328.0	17.2	15.1	16.4	13.9	5.4	4.6	5.1	4.3
Virginia												
Burlington	93.7	97.1	95.3	98.9	3.4	2.9	3.3	2.7	3.6	3.0	3.5	2.8
Virginia												
Charlottesville	3,305.4	3,498.4	3,310.8	3,512.2	155.6	128.6	147.5	121.1	4.7	3.7	4.5	3.4
Danville	68.7	71.7	70.3	74.6	1.9	1.2	1.9	1.2	2.7	1.7	2.7	1.6
Lynchburg	55.7	58.1	54.7	57.7	4.1	3.3	3.1	3.2	7.3	5.7	5.6	5.5
Norfolk-Virginia Beach-Newport News	98.0	101.9	99.4	103.1	4.3	3.4	4.6	3.2	4.4	3.3	4.6	3.1
Richmond-Petersburg	698.6	735.4	698.7	735.8	36.5	31.0	34.6	28.7	5.2	4.2	5.0	3.9
Roanoke	480.9	515.1	482.4	519.8	18.9	15.5	17.9	15.3	3.9	3.0	3.7	2.9
Washington												
Bellingham	122.8	129.5	122.8	130.1	4.3	3.6	4.1	4.0	3.5	2.8	3.4	3.1
Washington												
Bellingham	2,929.1	3,012.6	2,932.0	2,996.8	179.4	159.8	177.3	152.1	6.1	5.3	6.0	5.1
Bremerton	77.2	80.3	77.0	79.4	5.9	5.2	5.7	4.9	7.6	6.4	7.4	6.2
Olympia	93.3	92.9	93.2	91.4	5.9	5.1	6.0	4.9	6.3	5.5	6.4	5.4
Richland-Kennewick-Pasco	98.5	99.5	98.3	98.7	6.1	5.5	5.9	5.1	6.2	5.5	6.0	5.2
Seattle-Bellevue-Everett	90.9	89.2	90.8	88.9	9.6	8.3	8.7	7.6	10.6	9.3	9.6	8.6
Spokane	1,321.3	1,379.8	1,321.3	1,375.5	53.2	43.2	53.4	42.2	4.0	3.1	4.0	3.1
Tacoma	204.5	210.6	205.4	210.1	12.5	11.1	13.1	10.9	6.1	5.3	6.4	5.2
Yakima	327.0	332.7	326.5	329.8	16.8	15.7	17.1	15.1	5.1	4.7	5.2	4.6
West Virginia												
Charleston	107.3	107.8	109.0	107.3	16.9	15.5	15.8	14.2	15.7	14.4	14.5	13.2
West Virginia												
Charleston	802.1	794.1	798.6	790.3	69.8	59.4	68.9	56.2	8.7	7.5	8.6	7.1
Huntington-Ashland	130.1	130.8	130.3	129.3	7.7	6.9	7.7	6.4	5.9	5.2	5.9	4.9
Parkersburg-Marietta	136.1	136.3	135.6	136.7	11.1	10.0	11.0	9.4	8.2	7.4	8.1	6.8
Wheeling	76.2	76.2	75.8	76.7	5.4	5.1	5.4	4.9	7.1	6.7	7.1	6.4
Wisconsin												
Appleton-Oshkosh-Neenah	72.9	73.1	72.9	73.0	6.4	4.9	6.7	4.8	8.8	6.7	9.2	6.6
Wisconsin												
Appleton-Oshkosh-Neenah	2,874.2	2,915.6	2,879.8	2,928.5	129.0	112.0	132.8	117.8	4.5	3.8	4.6	4.0
Eau Claire	217.9	222.7	217.6	222.9	7.5	7.0	8.2	7.6	3.4	3.1	3.8	3.4
Green Bay	79.4	81.5	81.2	83.5	4.1	3.6	4.1	3.8	5.2	4.4	5.1	4.5
Janesville-Beloit	129.9	131.4	130.6	131.0	4.7	4.2	4.9	4.4	3.6	3.2	3.7	3.3
Kenosha	79.0	79.7	78.7	79.9	4.3	2.9	3.8	3.0	5.4	3.7	4.8	3.8
La Crosse	77.2	78.1	77.2	78.0	3.1	2.6	3.0	2.5	4.0	3.3	3.9	3.2
Madison	69.1	70.0	70.2	70.8	2.8	2.5	2.7	2.4	4.1	3.6	3.8	3.4
Milwaukee-Waukesha	253.2	258.9	255.1	260.5	5.3	4.8	5.5	5.1	2.1	1.9	2.2	2.0
Racine	796.9	808.8	795.6	811.2	30.2	25.0	30.7	25.7	3.8	3.1	3.9	3.2
Sheboygan	92.2	94.7	92.4	95.0	4.6	4.0	4.8	4.0	5.0	4.2	5.2	4.2
Wausau	59.3	60.5	59.0	60.0	1.8	1.5	1.9	1.7	3.0	2.5	3.2	2.8
Wyoming												
Casper	71.3	73.9	71.5	73.5	3.9	3.6	3.9	3.8	5.5	4.9	5.5	5.1
Wyoming												
Casper	247.0	249.2	246.9	251.3	17.5	13.7	17.2	14.0	7.1	5.5	7.0	5.6
Cheyenne	32.5	33.3	32.5	33.5	2.4	1.9	2.5	1.9	7.4	5.8	7.6	5.8
Puerto Rico												
Aguadilla	38.8	39.3	38.6	39.3	2.1	1.7	2.0	1.6	5.4	4.4	5.2	4.1
Puerto Rico												
Aguadilla	1,301.8	1,301.2	1,296.3	1,310.5	164.3	188.5	164.3	182.1	12.6	14.5	12.7	13.9
Arecibo	51.9	51.6	51.4	51.9	10.4	10.3	9.6	10.1	20.0	20.0	18.7	19.4
Caguas	52.3	54.1	52.4	54.1	7.9	8.8	8.2	8.8	15.0	16.2	15.6	16.3
Mayaguez	114.8	114.7	113.6	115.3	12.6	15.6	12.5	14.3	11.0	13.6	11.0	12.4
Ponce	92.7	93.0	92.1	92.9	14.9	17.0	14.8	15.8	16.1	18.2	16.1	17.0
San Juan-Bayamon	111.0	111.1	110.2	110.8	19.5	21.0	19.2	19.9	17.5	18.9	17.4	18.0
	705.9	701.9	703.9	713.9	69.2	81.0	69.6	79.5	9.8	11.5	9.9	11.1

P = preliminary.

when new benchmark and population information becomes available.

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-1. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
TOTAL													
Civilian noninstitutional population ¹	197,882	198,296	198,807	199,352	199,776	200,280	200,850	201,457	202,396	202,835	203,367	203,936	204,395
Civilian labor force	132,146	132,141	132,360	132,598	133,063	133,590	134,155	134,944	135,844	136,103	136,379	136,813	137,524
Percent of population	66.8	66.6	66.6	66.5	66.6	66.7	66.8	67.0	67.1	67.1	67.1	67.1	67.3
Employed	124,897	124,666	124,843	125,207	125,656	126,323	127,067	127,787	128,697	129,387	129,723	130,421	131,080
Employment-population ratio ²	63.1	62.9	62.8	62.8	62.9	63.1	63.3	63.4	63.6	63.8	63.8	64.0	64.1
Unemployed	7,249	7,475	7,518	7,391	7,407	7,267	7,089	7,157	7,147	6,716	6,656	6,392	6,444
Unemployment rate	5.5	5.7	5.7	5.6	5.6	5.4	5.3	5.3	5.3	4.9	4.9	4.7	4.7
Men, 16 years and over													
Civilian noninstitutional population ¹	94,815	95,029	95,292	95,578	95,787	96,048	96,337	96,651	97,324	97,560	97,839	98,139	98,326
Civilian labor force	71,497	71,327	71,313	71,345	71,717	72,013	72,169	72,429	73,072	73,166	73,225	73,552	73,776
Percent of population	75.4	75.1	74.8	74.6	74.9	75.0	74.9	74.9	75.1	75.0	74.8	74.9	75.0
Employed	67,605	67,314	67,268	67,346	67,707	68,078	68,370	68,683	69,291	69,639	69,705	70,111	70,425
Employment-population ratio ²	71.3	70.8	70.6	70.5	70.7	70.9	71.0	71.1	71.2	71.4	71.2	71.4	71.6
Agriculture	2,675	2,546	2,525	2,499	2,603	2,531	2,572	2,593	2,570	2,611	2,543	2,489	2,426
Nonagricultural industries	64,930	64,768	64,743	64,847	65,103	65,546	65,797	66,090	66,721	67,027	67,162	67,621	67,999
Unemployed	3,892	4,013	4,045	3,999	4,010	3,935	3,800	3,746	3,782	3,527	3,520	3,441	3,351
Unemployment rate	5.4	5.6	5.7	5.6	5.6	5.5	5.3	5.2	5.2	4.8	4.8	4.7	4.5
Not in labor force	23,318	23,702	23,978	24,233	24,071	24,035	24,168	24,221	24,251	24,395	24,614	24,587	24,550
Men, 20 years and over													
Civilian noninstitutional population ¹	87,574	87,702	87,888	88,082	88,295	88,513	88,666	88,950	89,536	89,758	89,979	90,244	90,456
Civilian labor force	67,505	67,304	67,212	67,315	67,688	67,949	68,114	68,402	68,954	69,085	69,168	69,418	69,568
Percent of population	77.1	76.7	76.5	76.4	76.7	76.8	76.8	76.9	77.0	77.0	76.9	76.9	76.9
Employed	64,325	64,027	63,932	64,080	64,424	64,730	65,050	65,391	65,916	66,255	66,348	66,612	66,917
Employment-population ratio ²	73.5	73.0	72.7	72.8	73.0	73.1	73.4	73.5	73.6	73.8	73.7	73.8	74.0
Agriculture	2,440	2,318	2,302	2,294	2,387	2,310	2,351	2,385	2,346	2,404	2,361	2,312	2,238
Nonagricultural industries	61,885	61,709	61,629	61,786	62,037	62,420	62,699	63,006	63,569	63,851	63,987	64,301	64,679
Unemployed	3,180	3,278	3,281	3,235	3,264	3,219	3,064	3,011	3,038	2,830	2,820	2,806	2,651
Unemployment rate	4.7	4.9	4.9	4.8	4.8	4.7	4.5	4.4	4.4	4.1	4.1	4.0	3.8
Not in labor force	20,069	20,398	20,675	20,766	20,607	20,564	20,552	20,549	20,582	20,673	20,811	20,826	20,888
Women, 16 years and over													
Civilian noninstitutional population ¹	103,067	103,267	103,515	103,774	103,988	104,232	104,512	104,807	105,072	105,275	105,528	105,797	106,069
Civilian labor force	60,649	60,814	61,047	61,253	61,347	61,578	61,986	62,514	62,772	62,937	63,154	63,261	63,748
Percent of population	58.8	58.9	59.0	59.0	59.0	59.1	59.3	59.6	59.7	59.8	59.8	59.8	60.1
Employed	57,292	57,352	57,575	57,862	57,949	58,245	58,697	59,104	59,406	59,748	60,018	60,310	60,655
Employment-population ratio ²	55.6	55.5	55.6	55.8	55.7	55.9	56.2	56.4	56.5	56.8	56.9	57.0	57.2
Agriculture	913	904	832	880	898	889	873	828	823	812	875	876	836
Nonagricultural industries	56,379	56,448	56,743	56,981	57,051	57,357	57,824	58,276	58,583	58,937	59,143	59,434	59,819
Unemployed	3,357	3,462	3,472	3,391	3,397	3,332	3,289	3,411	3,366	3,189	3,136	2,951	3,093
Unemployment rate	5.5	5.7	5.7	5.5	5.5	5.4	5.3	5.5	5.4	5.1	5.0	4.7	4.9
Not in labor force	42,418	42,453	42,468	42,521	42,642	42,654	42,526	42,292	42,300	42,338	42,374	42,535	42,321
Women, 20 years and over													
Civilian noninstitutional population ¹	96,006	96,148	96,334	96,558	96,757	96,927	97,145	97,371	97,577	97,762	98,000	98,219	98,475
Civilian labor force	56,944	57,072	57,317	57,515	57,644	57,862	58,229	58,633	58,898	59,100	59,342	59,437	59,715
Percent of population	59.3	59.4	59.5	59.6	59.6	59.7	59.9	60.2	60.4	60.5	60.6	60.5	60.6
Employed	54,162	54,216	54,459	54,740	54,836	55,096	55,484	55,817	56,140	56,473	56,788	57,042	57,124
Employment-population ratio ²	56.4	56.4	56.5	56.7	56.7	56.8	57.1	57.3	57.5	57.8	57.9	58.1	58.0
Agriculture	874	852	781	822	847	843	831	784	771	763	827	831	776
Nonagricultural industries	53,288	53,364	53,678	53,918	53,989	54,253	54,652	55,032	55,369	55,710	55,961	56,212	56,348
Unemployed	2,783	2,856	2,858	2,775	2,808	2,766	2,745	2,816	2,757	2,626	2,554	2,394	2,590
Unemployment rate	4.9	5.0	5.0	4.8	4.9	4.8	4.7	4.8	4.7	4.4	4.3	4.0	4.3
Not in labor force	39,062	39,076	39,017	39,043	39,114	39,065	38,916	38,738	38,679	38,663	38,658	38,782	38,760
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,302	14,446	14,585	14,712	14,723	14,839	15,038	15,136	15,283	15,315	15,387	15,473	15,464
Civilian labor force	7,697	7,764	7,831	7,767	7,732	7,779	7,812	7,909	7,993	7,919	7,869	7,958	8,241
Percent of population	53.8	53.7	53.7	52.8	52.5	52.4	51.9	52.3	52.3	51.7	51.1	51.4	53.3
Employed	6,411	6,423	6,452	6,387	6,396	6,497	6,533	6,579	6,641	6,659	6,586	6,766	7,039
Employment-population ratio ²	44.8	44.5	44.2	43.4	43.4	43.8	43.4	43.5	43.5	43.5	42.8	43.7	45.5
Agriculture	274	280	274	264	267	262	262	252	276	256	229	223	248
Nonagricultural industries	6,137	6,143	6,178	6,123	6,128	6,230	6,270	6,327	6,365	6,403	6,357	6,543	6,791
Unemployed	1,286	1,341	1,379	1,380	1,336	1,282	1,279	1,330	1,352	1,260	1,282	1,192	1,202
Unemployment rate	16.7	17.3	17.6	17.8	17.3	16.5	16.4	16.8	16.9	15.9	16.3	15.0	14.6
Not in labor force	6,605	6,682	6,754	6,944	6,992	7,060	7,226	7,227	7,290	7,397	7,518	7,515	7,222

¹ The population figures are not adjusted for seasonal variation.

² Employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the seasonally adjusted data shown in tables D-1 through D-11 will not necessarily add to totals because of the independent seasonal

adjustment of the various series. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-2. 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	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
WHITE													
Civilian noninstitutional population ¹	166,442	166,715	167,063	167,438	167,760	168,098	168,491	168,918	169,499	169,785	170,149	170,540	170,915
Civilian labor force	111,792	111,802	112,102	112,137	112,502	112,864	113,185	113,869	114,411	114,596	114,683	115,040	115,314
Percent of population	67.2	67.1	67.1	67.0	67.1	67.2	67.4	67.5	67.5	67.5	67.4	67.5	67.5
Employed	106,472	106,242	106,648	106,612	107,048	107,478	108,058	108,648	109,298	109,802	109,862	110,465	110,715
Employment-population ratio ²	64.0	63.7	63.8	63.7	63.8	63.9	64.1	64.3	64.5	64.7	64.6	64.8	64.8
Unemployed	5,320	5,559	5,454	5,525	5,454	5,386	5,127	5,222	5,114	4,794	4,821	4,575	4,599
Unemployment rate	4.8	5.0	4.9	4.9	4.8	4.8	4.5	4.6	4.5	4.2	4.2	4.0	4.0
Men, 20 years and over													
Civilian labor force	57,795	57,640	57,687	57,787	58,071	58,257	58,411	58,602	59,014	59,070	59,108	59,281	59,278
Percent of population	77.4	77.1	77.0	76.9	77.2	77.3	77.4	77.4	77.6	77.5	77.4	77.4	77.3
Employed	55,378	55,109	55,227	55,319	55,633	55,824	56,116	56,337	56,754	56,992	57,004	57,200	57,334
Employment-population ratio ²	74.2	73.7	73.7	73.7	73.9	74.1	74.3	74.4	74.6	74.8	74.6	74.7	74.7
Unemployed	2,417	2,531	2,461	2,468	2,438	2,433	2,295	2,265	2,261	2,078	2,104	2,080	1,945
Unemployment rate	4.2	4.4	4.3	4.3	4.2	4.2	3.9	3.9	3.8	3.5	3.6	3.5	3.3
Women, 20 years and over													
Civilian labor force	47,458	47,582	47,861	47,832	47,873	48,019	48,188	48,566	48,681	48,803	48,885	49,005	49,070
Percent of population	59.0	59.1	59.4	59.2	59.2	59.3	59.4	59.8	59.9	59.9	59.9	60.0	59.9
Employed	45,473	45,497	45,814	45,778	45,831	46,003	46,262	46,551	46,786	46,998	47,120	47,341	47,268
Employment-population ratio ²	56.6	56.5	56.8	56.7	56.7	56.8	57.0	57.3	57.5	57.7	57.8	57.9	57.7
Unemployed	1,985	2,084	2,047	2,054	2,042	2,016	1,926	2,015	1,895	1,804	1,765	1,664	1,802
Unemployment rate	4.2	4.4	4.3	4.3	4.3	4.2	4.0	4.1	3.9	3.7	3.6	3.4	3.7
Both sexes, 16 to 19 years													
Civilian labor force	6,539	6,580	6,554	6,518	6,558	6,588	6,585	6,701	6,716	6,723	6,690	6,754	6,966
Percent of population	57.5	57.5	57.0	56.3	56.3	56.0	55.4	55.9	55.4	55.3	54.8	55.2	56.6
Employed	5,621	5,636	5,607	5,515	5,584	5,650	5,679	5,760	5,758	5,812	5,739	5,924	6,113
Employment-population ratio ²	49.5	49.3	48.8	47.6	47.9	48.0	47.8	48.1	47.5	47.8	47.0	48.4	49.7
Unemployed	918	944	947	1,003	974	937	906	942	958	912	951	830	852
Unemployment rate	14.0	14.4	14.4	15.4	14.8	14.2	13.8	14.1	14.3	13.6	14.2	12.3	12.2
Men	15.3	15.4	15.3	16.4	16.0	15.3	15.3	15.3	15.0	14.5	14.9	12.8	14.6
Women	12.7	13.3	13.5	14.3	13.6	13.1	12.1	12.7	13.5	12.6	13.5	11.7	9.7
BLACK													
Civilian noninstitutional population ¹	23,116	23,194	23,285	23,388	23,454	23,549	23,650	23,761	23,871	23,950	24,043	24,149	24,227
Civilian labor force	14,774	14,823	14,725	14,948	14,956	15,063	15,204	15,309	15,413	15,413	15,648	15,634	15,881
Percent of population	63.9	63.9	63.2	63.9	63.8	64.0	64.3	64.4	64.6	64.4	65.1	64.7	65.6
Employed	13,286	13,278	13,094	13,457	13,397	13,511	13,581	13,675	13,758	13,846	14,152	14,115	14,388
Employment-population ratio ²	57.5	57.2	56.2	57.5	57.1	57.4	57.4	57.6	57.6	57.8	58.9	58.4	59.4
Unemployed	1,488	1,545	1,631	1,491	1,559	1,552	1,622	1,634	1,655	1,567	1,495	1,519	1,493
Unemployment rate	10.1	10.4	11.1	10.0	10.4	10.3	10.7	10.7	10.7	10.2	9.6	9.7	9.4
Men, 20 years and over													
Civilian labor force	6,800	6,773	6,676	6,676	6,767	6,771	6,829	6,853	6,819	6,869	6,986	6,956	7,010
Percent of population	73.5	73.1	71.8	71.7	72.3	72.0	72.5	72.3	71.7	71.9	72.8	72.2	72.5
Employed	6,237	6,176	6,046	6,091	6,114	6,133	6,195	6,224	6,211	6,278	6,425	6,381	6,465
Employment-population ratio ²	67.5	66.7	65.0	65.4	65.3	65.2	65.8	65.7	65.3	65.8	66.9	66.2	66.9
Unemployed	563	597	630	585	653	638	634	630	608	591	561	575	545
Unemployment rate	8.3	8.8	9.4	8.8	9.6	9.4	9.3	9.2	8.9	8.6	8.0	8.3	7.8
Women, 20 years and over													
Civilian labor force	7,129	7,150	7,101	7,320	7,293	7,352	7,445	7,529	7,617	7,643	7,751	7,734	7,895
Percent of population	61.3	61.3	60.7	62.3	61.9	62.2	62.8	63.3	63.7	63.8	64.4	64.0	65.0
Employed	6,497	6,532	6,464	6,728	6,681	6,735	6,784	6,845	6,895	6,961	7,099	7,096	7,242
Employment-population ratio ²	55.9	56.0	55.2	57.3	56.7	57.0	57.3	57.5	57.7	58.1	59.0	58.7	59.7
Unemployed	632	618	637	592	612	617	661	684	722	682	651	638	653
Unemployment rate	8.9	8.6	9.0	8.1	8.4	8.4	8.9	9.1	9.5	8.9	8.4	8.3	8.3

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-2. 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	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	845	900	948	952	895	940	929	927	977	901	911	944	976
Percent of population	37.7	39.6	41.5	40.9	38.7	40.2	39.0	38.8	40.6	37.3	37.8	39.1	40.3
Employed	552	570	584	638	602	643	602	606	652	606	628	638	681
Employment-population ratio ²	24.6	25.1	25.5	27.4	26.0	27.5	25.3	25.4	27.1	25.1	26.0	26.4	28.1
Unemployed	293	330	364	315	294	297	327	320	325	294	283	306	295
Unemployment rate	34.6	36.7	38.4	33.0	32.8	31.6	35.2	34.6	33.3	32.7	31.0	32.4	30.2
Men	34.9	38.7	39.7	35.5	34.6	33.8	39.8	39.2	39.4	37.1	35.4	33.7	31.5
Women	34.4	34.7	37.2	30.6	31.0	29.4	30.4	30.1	27.5	28.4	27.3	31.3	29.1
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	18,413	18,555	18,702	18,845	18,977	19,132	19,292	19,452	20,067	20,236	20,408	20,574	20,797
Civilian labor force	12,050	12,248	12,377	12,390	12,532	12,603	12,825	13,118	13,656	13,725	13,869	13,916	14,133
Percent of population	65.4	66.0	66.2	65.7	66.0	65.9	66.5	67.4	68.1	67.8	68.0	67.6	68.0
Employed	10,930	11,116	11,233	11,219	11,345	11,436	11,705	12,065	12,539	12,659	12,815	12,883	13,158
Employment-population ratio ²	59.4	59.9	60.1	59.5	59.8	59.8	60.7	62.0	62.5	62.6	62.8	62.6	63.3
Unemployed	1,121	1,132	1,144	1,171	1,186	1,166	1,120	1,053	1,118	1,066	1,054	1,034	976
Unemployment rate	9.3	9.2	9.2	9.4	9.5	9.3	8.7	8.0	8.2	7.8	7.6	7.4	6.9

¹ The population figures are not adjusted for seasonal variation.

² Employment as a percent of the civilian noninstitutional population.

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

are included in both the white and black population groups. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-3. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, seasonally adjusted

(Numbers in thousands)

Educational attainment	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
Less than a high school diploma													
Civilian noninstitutional population ¹	30,188	30,533	29,696	29,952	30,482	30,538	29,787	29,859	30,269	30,069	29,318	29,372	29,487
Civilian labor force	12,078	12,011	11,854	12,157	12,334	12,402	12,386	12,460	12,608	12,580	12,548	12,511	12,543
Percent of population	40.0	39.3	39.9	40.6	40.5	40.6	41.6	41.7	41.7	41.8	42.8	42.6	42.5
Employed	11,024	10,969	10,761	11,032	11,230	11,276	11,333	11,434	11,513	11,548	11,567	11,561	11,649
Employment-population ratio	36.5	35.9	36.2	36.8	36.8	36.9	38.0	38.3	38.0	38.4	39.5	39.4	39.5
Unemployed	1,054	1,043	1,093	1,125	1,104	1,126	1,053	1,026	1,096	1,032	981	950	894
Unemployment rate	8.7	8.7	9.2	9.3	8.9	9.1	8.5	8.2	8.7	8.2	7.8	7.6	7.1
High school graduates, no college²													
Civilian noninstitutional population ¹	56,284	56,284	56,045	55,973	56,167	56,344	56,322	56,834	57,247	57,424	57,557	57,467	57,636
Civilian labor force	36,818	36,826	36,647	36,701	36,811	36,876	37,027	37,394	37,795	37,727	37,805	37,742	37,842
Percent of population	65.4	65.4	65.4	65.6	65.5	65.4	65.7	65.8	66.0	65.7	65.7	65.7	65.7
Employed	35,078	35,016	34,933	34,983	35,067	35,149	35,334	35,660	36,116	36,123	36,203	36,220	36,312
Employment-population ratio	62.3	62.2	62.3	62.5	62.4	62.4	62.7	62.7	63.1	62.9	62.9	63.0	63.0
Unemployed	1,740	1,811	1,715	1,718	1,744	1,726	1,693	1,734	1,680	1,604	1,601	1,523	1,530
Unemployment rate	4.7	4.9	4.7	4.7	4.7	4.7	4.6	4.6	4.4	4.3	4.2	4.0	4.0
Less than a bachelor's degree³													
Civilian noninstitutional population ¹	41,052	40,908	42,007	41,884	41,215	41,350	42,312	41,876	41,506	41,641	42,266	42,372	42,186
Civilian labor force	30,833	30,704	31,110	30,957	30,890	31,095	31,391	31,228	31,258	31,268	31,358	31,459	31,486
Percent of population	75.1	75.1	74.1	73.9	74.9	75.2	74.2	74.6	75.3	75.1	74.2	74.2	74.6
Employed	29,622	29,438	29,885	29,749	29,708	29,922	30,231	30,087	30,152	30,270	30,353	30,489	30,479
Employment-population ratio	72.2	72.0	71.1	71.0	72.1	72.4	71.4	71.8	72.6	72.7	71.8	72.0	72.2
Unemployed	1,210	1,266	1,225	1,209	1,182	1,173	1,160	1,142	1,106	998	1,005	970	1,007
Unemployment rate	3.9	4.1	3.9	3.9	3.8	3.8	3.7	3.7	3.5	3.2	3.2	3.1	3.2
College graduates													
Civilian noninstitutional population ¹	38,004	38,195	38,635	39,195	39,644	39,778	40,074	40,408	40,667	40,987	41,391	41,752	42,099
Civilian labor force	30,771	31,042	31,285	31,598	31,838	32,020	32,294	32,575	32,660	33,047	33,342	33,564	33,711
Percent of population	81.0	81.3	81.0	80.6	80.3	80.5	80.6	80.6	80.3	80.6	80.6	80.4	80.1
Employed	30,026	30,238	30,523	30,855	31,096	31,294	31,602	31,841	31,975	32,366	32,652	32,956	33,071
Employment-population ratio	79.0	79.2	79.0	78.7	78.4	78.7	78.9	78.8	78.6	79.0	78.9	78.9	78.6
Unemployed	745	804	762	743	742	726	693	734	685	681	690	609	640
Unemployment rate	2.4	2.6	2.4	2.4	2.3	2.3	2.1	2.3	2.1	2.1	2.1	1.8	1.9

¹ The population figures are not adjusted for seasonal variation.
² Includes high school diploma or equivalent.
³ Includes the categories, some college, no degree; and associate degree.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-4. 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	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
EMPLOYED													
Full-time workers	101,388	101,457	101,624	102,227	102,430	103,128	103,853	104,730	105,286	106,100	106,715	107,256	107,754
Men, 16 years and over	60,019	59,818	59,868	60,051	60,134	60,570	60,984	61,362	61,720	62,153	62,398	62,761	62,820
Men, 20 years and over	58,798	58,600	58,636	58,811	58,912	59,360	59,755	60,138	60,470	60,869	61,112	61,440	61,540
Women, 16 years and over	41,375	41,644	41,769	42,161	42,303	42,562	42,862	43,359	43,510	43,945	44,372	44,470	44,822
Women, 20 years and over	40,613	40,811	40,970	41,356	41,504	41,724	42,063	42,503	42,635	43,103	43,450	43,572	43,855
Both sexes, 16 to 19 years	1,976	2,045	2,018	2,060	2,014	2,044	2,035	2,088	2,181	2,128	2,153	2,244	2,359
Part-time workers	23,417	23,143	23,284	23,056	23,137	23,127	23,305	23,133	23,383	23,212	23,027	23,276	23,350
Men, 16 years and over	7,518	7,427	7,473	7,361	7,504	7,438	7,466	7,387	7,482	7,416	7,386	7,431	7,522
Men, 20 years and over	5,449	5,355	5,374	5,331	5,422	5,306	5,387	5,317	5,358	5,321	5,319	5,246	5,299
Women, 16 years and over	15,906	15,726	15,801	15,698	15,637	15,691	15,826	15,755	15,897	15,801	15,634	15,861	15,813
Women, 20 years and over	13,531	13,406	13,487	13,393	13,328	13,370	13,413	13,323	13,521	13,362	13,316	13,479	13,272
Both sexes, 16 to 19 years	4,437	4,382	4,422	4,332	4,387	4,452	4,506	4,494	4,504	4,529	4,393	4,551	4,780
UNEMPLOYED													
Looking for full-time work	5,762	5,957	5,996	5,941	5,927	5,835	5,643	5,782	5,702	5,385	5,314	5,135	5,090
Men, 16 years and over	3,229	3,424	3,446	3,382	3,336	3,342	3,204	3,213	3,135	3,002	2,968	2,940	2,660
Men, 20 years and over	2,930	3,014	3,026	2,997	3,003	2,956	2,813	2,795	2,778	2,602	2,575	2,585	2,429
Women, 16 years and over	2,460	2,559	2,560	2,561	2,564	2,527	2,448	2,569	2,521	2,426	2,358	2,226	2,329
Women, 20 years and over	2,223	2,297	2,270	2,271	2,280	2,270	2,195	2,291	2,239	2,142	2,096	1,933	2,096
Both sexes, 16 to 19 years	609	646	700	674	644	609	635	696	685	640	644	617	565
Looking for part-time work	1,474	1,523	1,512	1,474	1,468	1,434	1,435	1,406	1,430	1,331	1,326	1,285	1,342
Men, 16 years and over	578	621	600	643	629	627	599	564	586	567	565	541	572
Men, 20 years and over	244	264	243	256	256	262	246	234	256	225	232	236	220
Women, 16 years and over	889	907	910	838	830	813	830	844	839	776	756	746	758
Women, 20 years and over	555	563	589	508	525	498	544	532	515	485	454	467	495
Both sexes, 16 to 19 years	676	697	680	709	687	674	645	640	659	620	640	582	627
UNEMPLOYMENT RATES¹													
Full-time workers	5.4	5.5	5.6	5.5	5.5	5.4	5.2	5.2	5.1	4.8	4.7	4.6	4.5
Men, 16 years and over	5.1	5.4	5.4	5.3	5.3	5.2	5.0	5.0	4.8	4.6	4.5	4.5	4.1
Men, 20 years and over	4.7	4.9	4.9	4.8	4.8	4.7	4.5	4.4	4.4	4.1	4.0	4.0	3.8
Women, 16 years and over	5.6	5.8	5.8	5.7	5.7	5.6	5.4	5.6	5.5	5.2	5.0	4.8	4.9
Women, 20 years and over	5.2	5.3	5.2	5.2	5.2	5.2	5.0	5.1	5.0	4.7	4.6	4.2	4.6
Both sexes, 16 to 19 years	23.5	24.0	25.7	24.6	24.2	23.0	23.8	25.0	23.9	23.1	23.0	21.6	19.3
Part-time workers	5.9	6.2	6.1	6.0	6.0	5.8	5.8	5.7	5.8	5.4	5.4	5.2	5.4
Men, 16 years and over	7.1	7.7	7.4	8.0	7.7	7.8	7.4	7.1	7.3	7.1	7.1	6.8	7.1
Men, 20 years and over	4.3	4.7	4.3	4.6	4.5	4.7	4.4	4.2	4.6	4.1	4.2	4.3	4.0
Women, 16 years and over	5.3	5.5	5.4	5.1	5.0	4.9	5.0	5.1	5.0	4.7	4.6	4.5	4.6
Women, 20 years and over	3.9	4.0	4.2	3.7	3.8	3.6	3.9	3.8	3.7	3.5	3.3	3.3	3.6
Both sexes, 16 to 19 years	13.2	13.7	13.3	14.1	13.5	13.2	12.5	12.5	12.8	12.0	12.7	11.3	11.6

¹ 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-5. Employed persons by marital status, occupation, class of worker, and part-time status, seasonally adjusted

(In thousands)

Category	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
MARITAL STATUS													
Total	124,897	124,666	124,843	125,207	125,656	126,323	127,067	127,787	128,697	129,387	129,723	130,421	131,080
Married men, spouse present	41,948	42,002	42,129	42,113	42,197	42,409	42,501	42,556	42,602	42,426	42,637	42,897	42,890
Married women, spouse present	31,946	32,080	32,074	32,142	32,116	32,341	32,627	32,535	32,668	32,574	32,840	32,931	32,829
Women who maintain families	7,106	7,145	7,171	7,241	7,329	7,321	7,325	7,481	7,606	7,810	7,881	7,804	7,815
OCCUPATION													
Managerial and professional specialty ..	34,739	35,155	35,662	35,710	35,833	36,369	36,657	37,126	37,499	37,492	37,741	38,012	38,239
Technical, sales, and administrative support	37,422	37,400	37,531	37,294	37,387	37,615	37,803	37,915	38,103	38,212	38,370	38,546	38,522
Service occupations	17,048	16,981	16,793	16,886	16,870	17,215	17,315	17,288	17,255	17,398	17,670	17,813	17,954
Precision production, craft, and repair ...	13,675	13,499	13,445	13,515	13,624	13,462	13,629	13,660	14,028	14,259	14,044	14,180	14,465
Operators, fabricators, and laborers	18,192	18,064	17,877	18,150	18,189	18,189	18,135	18,276	18,264	18,505	18,410	18,415	18,478
Farming, forestry, and fishing	3,781	3,615	3,571	3,641	3,709	3,519	3,545	3,519	3,490	3,562	3,485	3,474	3,353
CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,880	1,780	1,796	1,824	1,899	1,877	1,843	1,871	1,923	1,927	1,880	1,838	1,914
Self-employed workers	1,661	1,625	1,519	1,522	1,554	1,498	1,526	1,495	1,417	1,436	1,483	1,488	1,305
Unpaid family workers	41	55	44	39	43	45	71	63	46	54	49	53	39
Nonagricultural industries:													
Wage and salary workers	112,282	112,290	112,420	112,804	113,093	113,790	114,609	115,177	115,931	116,677	117,274	118,040	118,873
Private industries	93,795	93,832	94,137	94,574	94,953	95,494	96,386	96,962	97,778	98,669	99,069	99,876	100,583
Private households	1,027	951	922	956	916	875	958	960	920	920	908	911	1,014
Other industries	92,768	92,881	93,216	93,619	94,037	94,619	95,428	96,002	96,858	97,749	98,161	98,965	99,569
Government	18,487	18,458	18,283	18,229	18,139	18,296	18,223	18,215	18,153	18,008	18,205	18,164	18,290
Self-employed workers	8,892	8,806	8,999	8,925	8,940	8,965	8,925	9,063	9,243	9,104	8,944	8,940	8,836
Unpaid family workers	118	113	108	103	104	117	126	142	138	134	113	96	117
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,497	4,478	4,492	4,429	4,333	4,377	4,345	4,211	4,244	4,156	3,978	3,886	3,956
Slack work or business conditions	2,399	2,432	2,529	2,543	2,423	2,372	2,502	2,256	2,365	2,348	2,196	2,221	2,198
Could only find part-time work	1,792	1,734	1,668	1,606	1,590	1,645	1,562	1,631	1,544	1,479	1,477	1,372	1,433
Part time for noneconomic reasons	17,879	17,777	17,934	17,501	17,573	17,682	18,029	17,875	18,138	18,193	18,017	18,194	18,457
Nonagricultural industries:													
Part time for economic reasons	4,276	4,273	4,303	4,265	4,108	4,192	4,156	4,035	4,044	3,959	3,810	3,692	3,778
Slack work or business conditions	2,266	2,296	2,400	2,438	2,280	2,261	2,373	2,139	2,247	2,216	2,085	2,105	2,081
Could only find part-time work	1,743	1,696	1,634	1,574	1,562	1,610	1,532	1,605	1,511	1,440	1,445	1,338	1,407
Part time for noneconomic reasons	17,219	17,075	17,338	16,897	16,929	17,062	17,411	17,264	17,532	17,606	17,451	17,605	17,871

¹ 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-6. Employed persons by age and sex, seasonally adjusted

(In thousands)

Age and sex	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
Total, 16 years and over	124,897	124,666	124,843	125,207	125,656	126,323	127,067	127,787	128,697	129,387	129,723	130,421	131,080
16 to 24 years	19,141	18,980	18,764	18,572	18,547	18,668	18,590	18,756	18,969	19,060	18,962	19,188	19,575
16 to 19 years	6,411	6,423	6,452	6,387	6,396	6,497	6,533	6,579	6,641	6,659	6,586	6,766	7,039
16 to 17 years	2,573	2,599	2,574	2,543	2,590	2,651	2,654	2,687	2,655	2,648	2,610	2,679	2,829
18 to 19 years	3,824	3,848	3,883	3,836	3,796	3,863	3,874	3,887	3,978	4,019	3,965	4,090	4,211
20 to 24 years	12,730	12,557	12,313	12,185	12,152	12,171	12,058	12,177	12,328	12,401	12,375	12,422	12,536
25 years and over	105,763	105,694	106,079	106,623	107,090	107,678	108,487	109,018	109,714	110,355	110,766	111,220	111,455
25 to 54 years	90,725	90,702	90,942	91,373	91,833	92,316	92,989	93,420	93,881	94,330	94,800	94,836	95,093
55 years and over	15,037	14,943	15,172	15,252	15,258	15,300	15,557	15,600	15,850	15,951	16,034	16,387	16,385
Men, 16 years and over	67,605	67,314	67,268	67,346	67,707	68,078	68,370	68,683	69,291	69,639	69,705	70,111	70,425
16 to 24 years	10,108	10,026	9,942	9,760	9,753	9,762	9,711	9,738	9,927	9,994	9,901	9,990	10,159
16 to 19 years	3,280	3,287	3,336	3,265	3,282	3,348	3,319	3,292	3,375	3,384	3,357	3,498	3,508
16 to 17 years	1,310	1,334	1,329	1,288	1,303	1,331	1,302	1,336	1,344	1,342	1,343	1,392	1,440
18 to 19 years	1,959	1,971	2,002	1,981	1,973	2,032	2,007	1,961	2,024	2,048	1,994	2,118	2,071
20 to 24 years	6,828	6,739	6,606	6,495	6,471	6,414	6,392	6,446	6,552	6,610	6,545	6,491	6,651
25 years and over	57,496	57,272	57,345	57,585	57,934	58,308	58,690	58,944	59,347	59,636	59,836	60,118	60,240
25 to 54 years	49,105	48,996	48,989	49,090	49,398	49,677	50,007	50,230	50,502	50,701	50,878	51,009	51,194
55 years and over	8,382	8,261	8,363	8,510	8,522	8,612	8,705	8,725	8,836	8,912	8,983	9,121	9,042
Women, 16 years and over	57,292	57,352	57,575	57,862	57,949	58,245	58,697	59,104	59,406	59,748	60,018	60,310	60,655
16 to 24 years	9,033	8,954	8,822	8,812	8,794	8,906	8,879	9,018	9,042	9,066	9,060	9,198	9,416
16 to 19 years	3,130	3,135	3,115	3,122	3,113	3,149	3,213	3,287	3,266	3,275	3,230	3,268	3,531
16 to 17 years	1,263	1,265	1,245	1,255	1,286	1,321	1,352	1,351	1,310	1,307	1,266	1,287	1,388
18 to 19 years	1,866	1,876	1,881	1,855	1,823	1,831	1,867	1,926	1,954	1,972	1,970	1,972	2,140
20 to 24 years	5,902	5,819	5,707	5,691	5,681	5,757	5,666	5,731	5,776	5,791	5,831	5,930	5,885
25 years and over	48,267	48,422	48,734	49,037	49,156	49,370	49,797	50,075	50,367	50,719	50,930	51,102	51,215
25 to 54 years	41,621	41,706	41,953	42,283	42,435	42,640	42,982	43,190	43,380	43,629	43,921	43,827	43,899
55 years and over	6,655	6,682	6,809	6,742	6,737	6,688	6,852	6,875	7,014	7,038	7,051	7,266	7,343

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-7. Unemployed persons by age and sex, seasonally adjusted

(In thousands)

Age and sex	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
Total, 16 years and over	7,249	7,475	7,518	7,391	7,407	7,267	7,089	7,157	7,147	6,716	6,656	6,392	6,444
16 to 24 years	2,502	2,555	2,705	2,607	2,633	2,524	2,487	2,531	2,564	2,407	2,384	2,345	2,361
16 to 19 years	1,286	1,341	1,379	1,380	1,336	1,282	1,279	1,330	1,352	1,260	1,282	1,192	1,202
16 to 17 years	632	649	675	655	634	625	616	596	614	582	587	573	604
18 to 19 years	645	698	708	727	691	661	672	734	727	680	707	618	586
20 to 24 years	1,216	1,214	1,326	1,227	1,297	1,242	1,208	1,201	1,212	1,147	1,101	1,153	1,159
25 years and over	4,731	4,919	4,813	4,803	4,759	4,739	4,605	4,647	4,568	4,302	4,282	4,065	4,074
25 to 54 years	4,178	4,328	4,218	4,226	4,198	4,182	4,053	4,131	4,066	3,807	3,773	3,585	3,624
55 years and over	568	583	583	575	577	545	543	518	513	489	501	475	465
Men, 16 years and over	3,892	4,013	4,045	3,999	4,010	3,935	3,800	3,746	3,782	3,527	3,520	3,441	3,351
16 to 24 years	1,360	1,393	1,484	1,439	1,453	1,425	1,374	1,371	1,394	1,293	1,325	1,308	1,302
16 to 19 years	712	735	765	764	746	716	736	736	744	698	700	635	699
16 to 17 years	338	352	365	357	354	348	359	327	342	324	306	311	343
18 to 19 years	364	393	396	411	383	375	375	412	393	379	394	326	348
20 to 24 years	648	658	719	675	707	710	638	636	650	596	625	673	603
25 years and over	2,519	2,628	2,565	2,563	2,545	2,516	2,429	2,377	2,378	2,240	2,201	2,131	2,042
25 to 54 years	2,213	2,281	2,224	2,249	2,253	2,216	2,110	2,087	2,090	1,960	1,917	1,837	1,777
55 years and over	323	340	332	309	307	291	313	286	301	270	278	293	281
Women, 16 years and over	3,357	3,462	3,472	3,391	3,397	3,332	3,289	3,411	3,366	3,189	3,136	2,951	3,093
16 to 24 years	1,142	1,162	1,221	1,168	1,180	1,099	1,113	1,160	1,170	1,114	1,059	1,037	1,059
16 to 19 years	574	606	615	616	590	566	544	595	608	562	582	557	502
16 to 17 years	294	297	309	298	280	277	256	269	271	258	281	262	261
18 to 19 years	280	305	313	316	308	286	297	323	334	301	312	293	237
20 to 24 years	568	556	606	552	590	533	569	565	562	551	477	480	556
25 years and over	2,212	2,292	2,248	2,240	2,214	2,223	2,175	2,270	2,190	2,062	2,081	1,933	2,031
25 to 54 years	1,965	2,047	1,994	1,978	1,944	1,966	1,943	2,044	1,976	1,847	1,856	1,749	1,846
55 years and over	245	243	252	267	270	254	230	232	212	219	223	181	184

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-8. Unemployment rates by age and sex, seasonally adjusted

(Percent)

Age and sex	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
Total, 16 years and over	5.5	5.7	5.7	5.6	5.6	5.4	5.3	5.3	5.3	4.9	4.9	4.7	4.7
16 to 24 years	11.6	11.9	12.6	12.3	12.4	11.9	11.8	11.9	11.9	11.2	11.2	10.9	10.8
16 to 19 years	16.7	17.3	17.6	17.8	17.3	16.5	16.4	16.8	16.9	15.9	16.3	15.0	14.6
16 to 17 years	19.7	20.0	20.8	20.5	19.7	19.1	18.8	18.1	18.8	18.0	18.4	17.6	17.6
18 to 19 years	14.4	15.4	15.4	15.9	15.4	14.6	14.8	15.9	15.4	14.5	15.1	13.1	12.2
20 to 24 years	8.7	8.8	9.7	9.1	9.6	9.3	9.1	9.0	8.9	8.5	8.2	8.5	8.5
25 years and over	4.3	4.4	4.3	4.3	4.3	4.2	4.1	4.1	4.0	3.8	3.7	3.5	3.5
25 to 54 years	4.4	4.6	4.4	4.4	4.4	4.3	4.2	4.2	4.2	3.9	3.8	3.6	3.7
55 years and over	3.6	3.8	3.7	3.6	3.6	3.4	3.4	3.2	3.1	3.0	3.0	2.8	2.8
Men, 16 years and over	5.4	5.6	5.7	5.6	5.6	5.5	5.3	5.2	5.2	4.8	4.8	4.7	4.5
16 to 24 years	11.9	12.2	13.0	12.8	13.0	12.7	12.4	12.3	12.3	11.5	11.8	11.6	11.4
16 to 19 years	17.8	18.3	18.6	19.0	18.5	17.6	18.1	18.3	18.1	17.1	17.3	15.4	16.6
16 to 17 years	20.5	20.9	21.6	21.7	21.3	20.7	21.6	19.7	20.3	19.5	18.6	18.3	19.3
18 to 19 years	15.7	16.6	16.5	17.2	16.3	15.6	15.7	17.4	16.3	15.6	16.5	13.3	14.4
20 to 24 years	8.7	8.9	9.8	9.4	9.8	10.0	9.1	9.0	9.0	8.3	8.7	9.4	8.3
25 years and over	4.2	4.4	4.3	4.3	4.2	4.1	4.0	3.9	3.9	3.6	3.5	3.4	3.3
25 to 54 years	4.3	4.4	4.3	4.4	4.4	4.3	4.0	4.0	4.0	3.7	3.6	3.5	3.4
55 years and over	3.7	3.9	3.8	3.5	3.5	3.3	3.5	3.2	3.3	2.9	3.0	3.1	3.0
Women, 16 years and over	5.5	5.7	5.7	5.5	5.5	5.4	5.3	5.5	5.4	5.1	5.0	4.7	4.9
16 to 24 years	11.2	11.5	12.2	11.7	11.8	11.0	11.1	11.4	11.5	10.9	10.5	10.1	10.1
16 to 19 years	15.5	16.2	16.5	16.5	15.9	15.2	14.5	15.3	15.7	14.7	15.3	14.6	12.5
16 to 17 years	18.9	19.0	19.9	19.2	17.9	17.3	15.9	16.6	17.2	16.5	18.2	16.9	15.8
18 to 19 years	13.1	14.0	14.3	14.6	14.4	13.5	13.7	14.3	14.6	13.2	13.7	12.9	10.0
20 to 24 years	8.8	8.7	9.6	8.8	9.4	8.5	9.1	9.0	8.9	8.7	7.6	7.5	8.6
25 years and over	4.4	4.5	4.4	4.4	4.3	4.3	4.2	4.3	4.2	3.9	3.9	3.6	3.8
25 to 54 years	4.5	4.7	4.5	4.5	4.4	4.4	4.3	4.5	4.4	4.1	4.1	3.8	4.0
55 years and over	3.5	3.5	3.6	3.8	3.9	3.7	3.2	3.3	2.9	3.0	3.1	2.4	2.4

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-9. Unemployment rates by occupation, industry, and selected demographic characteristics, seasonally adjusted

(Percent)

Category	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
CHARACTERISTIC													
Total	5.5	5.7	5.7	5.6	5.6	5.4	5.3	5.3	5.3	4.9	4.9	4.7	4.7
Men, 20 years and over	4.7	4.9	4.9	4.8	4.8	4.7	4.5	4.4	4.4	4.1	4.1	4.0	3.8
Women, 20 years and over	4.9	5.0	5.0	4.8	4.9	4.8	4.7	4.8	4.7	4.4	4.3	4.0	4.3
Both sexes, 16 to 19 years	16.7	17.3	17.6	17.8	17.3	16.5	16.4	16.8	16.9	15.9	16.3	15.0	14.6
White	4.8	5.0	4.9	4.9	4.8	4.8	4.5	4.6	4.5	4.2	4.2	4.0	4.0
Black and other	9.4	9.5	10.1	9.3	9.4	9.2	9.3	9.3	9.4	9.0	8.4	8.4	8.2
Black	10.1	10.4	11.1	10.0	10.4	10.3	10.7	10.7	10.7	10.2	9.6	9.7	9.4
Hispanic origin	9.3	9.2	9.2	9.4	9.5	9.3	8.7	8.0	8.2	7.8	7.6	7.4	6.9
Married men, spouse present	3.2	3.4	3.4	3.2	3.1	3.0	3.0	3.0	2.8	2.7	2.6	2.5	2.5
Married women, spouse present	3.8	3.9	4.0	3.8	3.7	3.7	3.4	3.6	3.3	3.2	3.1	2.8	3.1
Women who maintain families	8.2	8.7	7.7	7.5	7.6	8.0	8.6	8.6	8.8	7.9	7.8	7.8	7.6
OCCUPATION¹													
Managerial and professional specialty	2.4	2.4	2.5	2.5	2.4	2.4	2.3	2.3	2.1	2.0	2.0	1.8	1.9
Technical, sales, and administrative support	4.4	4.6	4.4	4.3	4.5	4.4	4.5	4.5	4.3	4.1	4.1	3.9	4.1
Precision production, craft, and repair	5.6	6.1	6.3	6.0	5.7	5.5	5.4	5.5	4.9	4.8	4.8	4.8	4.4
Operators, fabricators, and laborers	7.8	8.3	8.4	8.3	8.2	8.1	7.7	7.8	8.0	7.3	7.6	7.1	6.4
Farming, forestry, and fishing	7.6	8.3	7.7	7.9	7.8	8.2	6.9	7.3	7.3	7.1	6.8	7.0	6.7
INDUSTRY													
Nonagricultural private wage and salary workers ...	5.6	5.8	5.9	5.8	5.7	5.6	5.4	5.4	5.3	5.0	5.0	4.8	4.7
Goods-producing industries	6.1	6.6	6.6	6.5	6.3	6.2	5.7	6.0	5.7	5.3	5.3	4.9	4.9
Mining	4.8	4.8	4.2	6.9	5.6	4.3	4.5	5.7	4.4	2.8	4.2	3.7	3.5
Construction	10.9	11.8	12.0	11.5	10.5	10.2	9.4	9.7	9.4	8.7	8.8	8.5	8.1
Manufacturing	4.6	5.0	5.0	5.0	5.0	4.9	4.6	4.8	4.5	4.3	4.2	3.7	3.8
Durable goods	4.1	4.5	4.5	4.4	4.8	4.7	4.1	4.5	4.0	3.6	3.4	3.1	3.3
Nondurable goods	5.3	5.8	5.8	5.8	5.3	5.3	5.2	5.2	5.2	5.3	5.2	4.7	4.6
Service-producing industries	5.4	5.5	5.6	5.5	5.5	5.4	5.3	5.2	5.2	4.9	4.8	4.7	4.6
Transportation and public utilities	4.6	4.4	4.4	4.4	3.9	4.3	4.1	4.1	4.0	3.2	3.6	3.2	3.4
Wholesale and retail trade	6.4	6.5	6.8	6.4	6.5	6.5	6.3	6.3	6.4	6.2	6.2	6.0	5.7
Finance, insurance, and real estate	3.3	3.5	3.2	3.1	2.6	2.5	2.7	3.0	3.2	3.0	3.0	2.7	2.6
Services	5.3	5.5	5.5	5.5	5.6	5.5	5.3	5.1	4.9	4.7	4.5	4.4	4.6
Government workers	3.0	3.0	2.8	2.9	2.8	3.0	2.9	3.0	2.9	2.6	2.6	2.3	2.5
Agricultural wage and salary workers	10.3	11.7	10.5	11.6	10.7	10.4	9.4	10.0	9.0	9.2	8.7	9.3	9.6

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

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-10. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reason	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
NUMBER OF UNEMPLOYED													
Job losers and persons who completed temporary jobs	3,419	3,480	3,494	3,533	3,515	3,472	3,230	3,231	3,162	3,031	2,990	2,937	2,861
On temporary layoff	1,012	1,034	1,050	1,033	1,053	1,064	983	965	965	932	893	913	887
Not on temporary layoff	2,407	2,446	2,445	2,500	2,462	2,408	2,248	2,266	2,197	2,099	2,098	2,024	1,974
Job leavers	768	857	850	822	789	709	766	827	821	804	853	693	779
Reentrants	2,478	2,585	2,559	2,487	2,484	2,549	2,495	2,525	2,535	2,364	2,233	2,215	2,236
New entrants	573	581	588	578	591	557	577	598	612	551	559	556	537
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers and persons who completed temporary jobs	47.2	46.4	46.6	47.6	47.6	47.6	45.7	45.0	44.4	44.9	45.1	45.9	44.6
On temporary layoff	14.0	13.8	14.0	13.9	14.3	14.6	13.9	13.4	13.5	13.8	13.5	14.3	13.8
Not on temporary layoff	33.3	32.6	32.6	33.7	33.4	33.0	31.8	31.6	30.8	31.1	31.6	31.6	30.8
Job leavers	10.6	11.4	11.3	11.1	10.7	9.7	10.8	11.5	11.5	11.9	12.9	10.8	12.2
Reentrants	34.2	34.5	34.2	33.5	33.7	35.0	35.3	35.2	35.6	35.0	33.7	34.6	34.9
New entrants	7.9	7.7	7.8	7.8	8.0	7.6	8.2	8.3	8.6	8.2	8.4	8.7	8.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers and persons who completed temporary jobs	2.6	2.6	2.6	2.7	2.6	2.6	2.4	2.4	2.3	2.2	2.2	2.1	2.1
On temporary layoff .....	.6	.6	.6	.6	.6	.5	.6	.6	.6	.6	.6	.5	.6
Not on temporary layoff	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.6	1.6	1.6
Job leavers .....	.4	.4	.4	.4	.4	.4	.4	.4	.5	.4	.4	.4	.4

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

D-11. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Duration	1995				1996				1997				1998
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
NUMBER OF UNEMPLOYED													
Less than 5 weeks	2,632	2,695	2,751	2,722	2,670	2,619	2,587	2,658	2,625	2,518	2,498	2,504	2,656
5 to 14 weeks	2,213	2,352	2,439	2,372	2,307	2,293	2,253	2,299	2,306	2,144	2,111	1,961	1,953
15 weeks and over	2,338	2,423	2,346	2,337	2,369	2,368	2,281	2,225	2,129	2,078	2,088	1,940	1,791
15 to 26 weeks	1,030	1,123	1,098	1,089	1,114	1,044	1,011	1,033	999	1,039	1,014	918	823
27 weeks and over	1,308	1,300	1,249	1,249	1,254	1,324	1,270	1,192	1,130	1,038	1,074	1,022	968
Average (mean) duration, in weeks	17.1	16.8	16.3	16.3	16.6	17.3	16.9	16.1	15.7	15.3	16.1	16.1	15.2
Median duration, in weeks	8.1	8.4	8.2	8.2	8.2	8.4	8.4	8.0	8.0	7.9	8.1	7.7	7.1
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	36.6	36.1	36.5	36.6	36.3	36.0	36.3	37.0	37.2	37.4	37.3	39.1	41.5
5 to 14 weeks	30.8	31.5	32.4	31.9	31.4	31.5	31.6	32.0	32.7	31.8	31.5	30.6	30.5
15 weeks and over	32.5	32.4	31.1	31.5	32.2	32.5	32.0	31.0	30.2	30.8	31.2	30.3	28.0
15 to 26 weeks	14.3	15.0	14.6	14.7	15.2	14.3	14.2	14.4	14.2	15.4	15.1	14.3	12.9
27 weeks and over	18.2	17.4	16.6	16.8	17.1	18.2	17.8	16.6	16.0	15.4	16.0	16.0	15.1

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-12. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	1997	1998	1997	1998	1997	1998	1997	1998
TOTAL								
Civilian noninstitutional population	202,396	204,395	169,499	170,915	23,871	24,227	20,067	20,797
Civilian labor force	134,792	136,401	113,652	114,501	15,212	15,670	13,583	14,045
Percent of population	66.6	66.7	67.1	67.0	63.7	64.7	67.7	67.5
Employed	127,132	129,505	108,011	109,438	13,539	14,161	12,356	12,969
Agriculture	3,045	2,930	2,886	2,760	92	94	597	601
Nonagricultural industries	124,087	126,575	105,125	106,678	13,447	14,067	11,759	12,369
Unemployed	7,660	6,896	5,641	5,064	1,674	1,509	1,227	1,076
Unemployment rate	5.7	5.1	5.0	4.4	11.0	9.6	9.0	7.7
Not in labor force	67,604	67,994	55,847	56,413	8,659	8,557	6,483	6,752
Men, 16 years and over								
Civilian noninstitutional population	97,324	98,326	82,298	83,042	10,699	10,857	10,234	10,595
Civilian labor force	72,354	73,010	62,002	62,325	7,167	7,345	8,153	8,428
Percent of population	74.3	74.3	75.3	75.1	67.0	67.7	79.7	79.5
Employed	68,065	69,212	58,735	59,435	6,333	6,616	7,478	7,820
Agriculture	2,305	2,180	2,166	2,047	83	77	542	519
Nonagricultural industries	65,760	67,032	56,569	57,389	6,249	6,539	6,936	7,301
Unemployed	4,289	3,798	3,267	2,890	835	730	675	607
Unemployment rate	5.9	5.2	5.3	4.6	11.6	9.9	8.3	7.2
Not in labor force	24,970	25,316	20,296	20,716	3,532	3,512	2,081	2,167
Men, 20 years and over								
Civilian noninstitutional population	89,536	90,456	76,070	76,724	9,512	9,668	9,130	9,449
Civilian labor force	68,604	69,158	58,771	58,981	6,765	6,944	7,655	7,906
Percent of population	76.6	76.5	77.3	76.9	71.1	71.8	83.8	83.7
Employed	65,039	66,041	56,038	56,626	6,096	6,344	7,100	7,418
Agriculture	2,152	2,052	2,017	1,919	82	77	524	505
Nonagricultural industries	62,887	63,989	54,021	54,707	6,014	6,267	6,577	6,913
Unemployed	3,565	3,117	2,733	2,355	668	600	554	488
Unemployment rate	5.2	4.5	4.7	4.0	9.9	8.6	7.2	6.2
Not in labor force	20,931	21,299	17,299	17,743	2,748	2,724	1,475	1,543
Women, 16 years and over								
Civilian noninstitutional population	105,072	106,069	87,201	87,873	13,172	13,370	9,832	10,202
Civilian labor force	62,438	63,391	51,650	52,176	8,045	8,324	5,430	5,617
Percent of population	59.4	59.8	59.2	59.4	61.1	62.3	55.2	55.1
Employed	59,067	60,293	49,276	50,002	7,206	7,545	4,878	5,149
Agriculture	740	750	720	713	8	17	54	81
Nonagricultural industries	58,327	59,543	48,556	49,289	7,198	7,528	4,824	5,068
Unemployed	3,371	3,098	2,374	2,174	839	779	552	468
Unemployment rate	5.4	4.9	4.6	4.2	10.4	9.4	10.2	8.3
Not in labor force	42,634	42,678	35,552	35,697	5,127	5,046	4,402	4,585
Women, 20 years and over								
Civilian noninstitutional population	97,577	98,475	81,302	81,885	11,954	12,138	8,842	9,174
Civilian labor force	58,839	59,633	48,643	49,027	7,584	7,861	5,058	5,217
Percent of population	60.3	60.6	59.8	59.9	63.4	64.8	57.2	56.9
Employed	56,037	57,000	46,695	47,174	6,861	7,206	4,600	4,824
Agriculture	703	708	684	672	7	17	48	80
Nonagricultural industries	55,334	56,292	46,011	46,502	6,854	7,189	4,552	4,744
Unemployed	2,801	2,633	1,948	1,853	723	655	457	393
Unemployment rate	4.8	4.4	4.0	3.8	9.5	8.3	9.0	7.5
Not in labor force	38,738	38,842	32,660	32,858	4,370	4,277	3,784	3,956
Both sexes, 16 to 19 years								
Civilian noninstitutional population	15,283	15,464	12,127	12,305	2,405	2,421	2,094	2,174
Civilian labor force	7,349	7,610	6,238	6,494	864	864	871	922
Percent of population	48.1	49.2	51.4	52.8	35.9	35.7	41.6	42.4
Employed	6,055	6,463	5,278	5,638	581	611	655	728
Agriculture	190	170	185	169	2	-	25	16
Nonagricultural industries	5,866	6,294	5,093	5,469	579	611	630	712
Unemployed	1,294	1,147	960	856	282	254	216	194
Unemployment rate	17.6	15.1	15.4	13.2	32.7	29.4	24.8	21.0
Not in labor force	7,934	7,854	5,889	5,812	1,542	1,556	1,224	1,252

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-13. Employment status of the Mexican, Puerto Rican, and Cuban origin population by sex and age

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1997	1998	1997	1998	1997	1998	1997	1998
TOTAL								
Civilian noninstitutional population	20,067	20,797	12,285	12,948	2,087	2,055	1,017	1,062
Civilian labor force	13,583	14,045	8,421	8,885	1,261	1,214	633	630
Percent of population	67.7	67.5	68.5	68.6	60.4	59.1	62.2	59.3
Employed	12,356	12,969	7,639	8,205	1,121	1,096	595	588
Agriculture	597	601	539	545	7	2	1	6
Nonagricultural industries	11,759	12,369	7,100	7,660	1,114	1,093	594	582
Unemployed	1,227	1,076	783	680	140	119	38	42
Unemployment rate	9.0	7.7	9.3	7.7	11.1	9.8	6.0	6.7
Not in labor force	6,483	6,752	3,864	4,064	826	840	385	432
Men, 16 years and over								
Civilian noninstitutional population	10,234	10,595	6,452	6,830	981	957	526	530
Civilian labor force	8,153	8,428	5,251	5,572	701	644	370	375
Percent of population	79.7	79.5	81.4	81.6	71.4	67.3	70.2	70.9
Employed	7,478	7,820	4,783	5,163	628	580	350	356
Agriculture	542	519	489	470	3	2	1	5
Nonagricultural industries	6,936	7,301	4,294	4,692	625	577	349	351
Unemployed	675	607	468	410	72	64	20	19
Unemployment rate	8.3	7.2	8.9	7.4	10.3	10.0	5.3	5.1
Not in labor force	2,081	2,167	1,201	1,258	281	313	157	154
Men, 20 years and over								
Civilian noninstitutional population	9,130	9,449	5,734	6,024	869	877	509	500
Civilian labor force	7,655	7,906	4,913	5,181	652	613	362	360
Percent of population	83.8	83.7	85.7	86.0	74.9	69.9	71.1	71.9
Employed	7,100	7,418	4,531	4,855	597	560	343	346
Agriculture	524	505	471	456	3	2	1	5
Nonagricultural industries	6,577	6,913	4,060	4,399	594	558	342	341
Unemployed	554	488	382	326	55	53	19	14
Unemployment rate	7.2	6.2	7.8	6.3	8.4	8.7	5.2	3.8
Not in labor force	1,475	1,543	821	843	218	263	147	141
Women, 16 years and over								
Civilian noninstitutional population	9,832	10,202	5,833	6,118	1,105	1,098	491	533
Civilian labor force	5,430	5,617	3,170	3,312	560	570	263	255
Percent of population	55.2	55.1	54.3	54.1	50.7	52.0	53.6	47.8
Employed	4,878	5,149	2,856	3,042	492	516	245	232
Agriculture	54	81	50	75	4	-	-	1
Nonagricultural industries	4,824	5,068	2,806	2,968	489	516	245	231
Unemployed	552	468	315	270	68	54	18	23
Unemployment rate	10.2	8.3	9.9	8.2	12.1	9.5	6.9	9.0
Not in labor force	4,402	4,585	2,663	2,806	545	527	228	278
Women, 20 years and over								
Civilian noninstitutional population	8,842	9,174	5,204	5,432	980	1,001	468	507
Civilian labor force	5,058	5,217	2,932	3,043	520	528	253	243
Percent of population	57.2	56.9	56.3	56.0	53.0	52.7	53.9	48.0
Employed	4,600	4,824	2,677	2,820	467	481	236	223
Agriculture	48	80	43	74	4	-	-	1
Nonagricultural industries	4,552	4,744	2,634	2,746	463	481	236	222
Unemployed	457	393	254	224	53	47	17	20
Unemployment rate	9.0	7.5	8.7	7.4	10.2	8.9	6.6	8.3
Not in labor force	3,784	3,956	2,272	2,389	460	473	216	264
Both sexes, 16 to 19 years								
Civilian noninstitutional population	2,094	2,174	1,348	1,492	237	177	40	55
Civilian labor force	871	922	577	660	89	74	18	27
Percent of population	41.6	42.4	42.8	44.2	37.7	41.5	(²)	(²)
Employed	655	728	430	530	57	55	16	19
Agriculture	25	16	25	15	-	1	-	-
Nonagricultural industries	630	712	405	515	57	54	16	19
Unemployed	216	194	146	130	32	19	2	8
Unemployment rate	24.8	21.0	25.4	19.7	36.1	25.6	(²)	(²)
Not in labor force	1,224	1,252	771	832	148	104	22	28

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

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

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-14. Employed white, black, and Hispanic-origin workers by sex, occupation, class of worker, and full- or part-time status

(Numbers in thousands)

Category	Total		White		Black		Hispanic origin	
	I 1997	I 1998	I 1997	I 1998	I 1997	I 1998	I 1997	I 1998
SEX								
Total (all civilian workers)	127,132	129,505	108,011	109,438	13,539	14,161	12,356	12,969
Men	68,065	69,212	58,735	59,435	6,333	6,616	7,478	7,820
Women	59,067	60,293	49,276	50,002	7,206	7,545	4,878	5,149
OCCUPATION								
Managerial and professional specialty	37,586	38,331	33,179	33,585	2,642	2,871	1,797	1,926
Executive, administrative, and managerial	18,147	18,490	16,281	16,466	1,143	1,239	974	980
Professional specialty	19,439	19,841	16,898	17,119	1,499	1,633	823	945
Technical, sales, and administrative support	37,877	38,291	32,192	32,302	4,046	4,222	3,028	3,040
Technicians and related support	4,090	4,266	3,490	3,609	394	413	263	283
Sales occupations	15,368	15,422	13,426	13,378	1,229	1,340	1,178	1,138
Administrative support, including clerical	18,420	18,602	15,277	15,315	2,422	2,470	1,587	1,619
Service occupations	17,045	17,719	13,260	13,776	2,960	3,006	2,422	2,649
Private household	788	865	618	698	139	140	224	276
Protective service	2,160	2,399	1,703	1,865	390	463	193	230
Service, except private household and protective	14,098	14,456	10,940	11,214	2,431	2,404	2,005	2,143
Precision production, craft, and repair	13,733	14,181	12,150	12,569	1,122	1,119	1,670	1,764
Mechanics and repairers	4,518	4,715	3,972	4,183	376	365	454	510
Construction trades	5,266	5,466	4,792	4,949	358	384	745	764
Other precision production, craft, and repair	3,949	4,000	3,386	3,436	388	370	471	489
Operators, fabricators, and laborers	17,846	18,054	14,388	14,476	2,654	2,826	2,774	2,953
Machine operators, assemblers, and inspectors	7,911	7,983	6,305	6,296	1,158	1,273	1,405	1,384
Transportation and material moving occupations	5,176	5,241	4,279	4,254	761	823	577	651
Handlers, equipment cleaners, helpers, and laborers	4,759	4,830	3,804	3,926	735	729	792	918
Construction laborers	695	729	578	630	90	82	142	157
Other handlers, equipment cleaners, helpers, and laborers	4,063	4,101	3,226	3,296	645	647	650	761
Farming, forestry, and fishing	3,045	2,928	2,843	2,729	116	116	666	637
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,692	1,690	1,594	1,580	60	64	511	544
Self-employed workers	1,313	1,208	1,252	1,148	31	30	86	56
Unpaid family workers	40	32	40	31	-	-	-	1
Nonagricultural industries:								
Wage and salary workers	114,791	117,695	96,771	98,673	12,972	13,623	11,131	11,804
Government	18,294	18,436	14,688	14,762	2,833	2,831	1,354	1,433
Private industries	96,497	99,259	82,083	83,911	10,139	10,792	9,777	10,371
Private households	893	984	690	780	169	172	244	299
Other industries	95,604	98,276	81,393	83,131	9,970	10,620	9,533	10,072
Self-employed workers	9,165	8,768	8,251	7,918	475	443	617	557
Unpaid family workers	131	111	103	87	-	-	11	8
FULL- OR PART-TIME STATUS								
Full-time workers	103,243	105,644	87,105	88,752	11,465	12,021	10,322	10,938
Part-time workers	23,889	23,861	20,906	20,686	2,074	2,139	2,033	2,031

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 1998, data reflect new composite estimation procedures and revised population controls used in the household data.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-15. Employed Mexican, Puerto Rican, and Cuban-origin workers by sex, occupation, class of worker, and full- or part-time status

(In thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1997	1998	1997	1998	1997	1998	1997	1998
SEX								
Total (all civilian workers)	12,356	12,969	7,639	8,205	1,121	1,096	595	588
Men	7,478	7,820	4,783	5,163	628	580	350	356
Women	4,878	5,149	2,856	3,042	492	516	245	232
OCCUPATION								
Managerial and professional specialty	1,797	1,926	882	1,011	197	200	165	164
Executive, administrative, and managerial	974	980	468	519	106	90	100	90
Professional specialty	823	945	415	492	91	110	65	74
Technical, sales, and administrative support	3,028	3,040	1,749	1,755	359	363	188	188
Technicians and related support	263	283	144	156	41	36	16	25
Sales occupations	1,178	1,138	667	638	102	112	88	83
Administrative support, including clerical	1,587	1,619	938	961	217	215	83	80
Service occupations	2,422	2,649	1,424	1,575	217	231	98	90
Private household	224	276	107	139	8	2	12	5
Protective service	193	230	86	122	48	48	14	14
Service, except private household and protective	2,005	2,143	1,231	1,313	162	182	72	70
Precision production, craft, and repair	1,670	1,764	1,135	1,199	122	76	53	76
Mechanics and repairers	454	510	270	308	42	32	31	34
Construction trades	745	764	547	564	49	29	17	25
Other precision production, craft, and repair	471	489	318	327	30	14	5	16
Operators, fabricators, and laborers	2,774	2,953	1,862	2,087	217	221	88	70
Machine operators, assemblers, and inspectors	1,405	1,384	917	1,015	109	90	23	13
Transportation and material moving occupations	577	651	383	428	58	63	36	37
Handlers, equipment cleaners, helpers, and laborers	792	918	562	644	49	68	29	19
Construction laborers	142	157	113	121	3	9	3	-
Other handlers, equipment cleaners, helpers, and laborers	650	761	449	523	46	59	25	19
Farming, forestry, and fishing	666	637	586	578	9	5	4	1
CLASS OF WORKER								
Agriculture:								
Wage and salary workers	511	544	473	495	3	2	-	4
Self-employed workers	86	56	66	50	3	-	1	1
Unpaid family workers	-	1	-	-	-	-	-	1
Nonagricultural industries:								
Wage and salary workers	11,131	11,804	6,732	7,334	1,080	1,067	553	542
Government	1,354	1,433	832	896	183	174	67	55
Private industries	9,777	10,371	5,900	6,437	897	893	486	488
Private households	244	299	112	143	11	4	12	5
Other industries	9,533	10,072	5,788	6,294	886	890	474	483
Self-employed workers	617	557	363	319	34	26	42	40
Unpaid family workers	11	8	5	8	-	-	-	-
FULL- OR PART-TIME STATUS								
Full-time workers	10,322	10,938	6,394	6,914	921	912	503	497
Part time workers	2,033	2,031	1,245	1,290	200	183	92	91

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

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-16. Employed persons by age, sex, race, and Hispanic origin

(In thousands)

Age and sex	Total		White		Black		Hispanic origin	
	1997	1998	1997	1998	1997	1998	1997	1998
Total, 16 years and over	127,132	129,505	108,011	109,438	13,539	14,161	12,356	12,969
16 to 19 years	6,055	6,463	5,278	5,638	581	611	655	728
16 to 17 years	2,311	2,483	2,043	2,220	204	188	195	199
18 to 19 years	3,745	3,980	3,235	3,418	377	423	460	529
20 to 24 years	11,969	12,179	10,022	10,200	1,379	1,439	1,759	1,795
25 years and over	109,108	110,862	92,711	93,600	11,578	12,112	9,941	10,446
25 to 54 years	93,299	94,514	78,747	79,213	10,296	10,742	8,989	9,479
55 years and over	15,809	16,348	13,963	14,387	1,282	1,370	952	968
Men, 16 years and over	68,065	69,212	58,735	59,435	6,333	6,616	7,478	7,820
16 to 19 years	3,026	3,171	2,698	2,809	236	271	378	403
16 to 17 years	1,137	1,232	1,016	1,106	90	87	112	117
18 to 19 years	1,889	1,938	1,682	1,703	146	184	266	286
20 to 24 years	6,281	6,383	5,350	5,400	617	680	1,098	1,115
25 years and over	58,759	59,659	50,688	51,226	5,479	5,664	6,002	6,302
25 to 54 years	49,986	50,683	42,834	43,237	4,902	5,022	5,451	5,729
55 years and over	8,772	8,976	7,854	7,989	577	642	551	574
Women, 16 years and over	59,067	60,293	49,276	50,002	7,206	7,545	4,878	5,149
16 to 19 years	3,030	3,293	2,581	2,829	345	339	278	325
16 to 17 years	1,174	1,251	1,027	1,113	114	101	83	82
18 to 19 years	1,856	2,042	1,553	1,715	231	239	194	243
20 to 24 years	5,688	5,797	4,672	4,800	762	758	661	680
25 years and over	50,349	51,204	42,023	42,374	6,099	6,448	3,939	4,144
25 to 54 years	43,313	43,832	35,913	35,976	5,394	5,720	3,538	3,750
55 years and over	7,036	7,372	6,110	6,398	705	728	401	394

NOTE: Beginning in January 1998, data reflect new composite household survey estimation procedures and revised population controls used in the

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-17. Unemployment rates by age, sex, race, and Hispanic origin

Age and sex	Total		White		Black		Hispanic origin	
	I 1997	I 1998	I 1997	I 1998	I 1997	I 1998	I 1997	I 1998
Total, 16 years and over	5.7	5.1	5.0	4.4	11.0	9.6	9.0	7.7
16 to 19 years	17.6	15.1	15.4	13.2	32.7	29.4	24.8	21.0
16 to 17 years	19.9	18.5	17.7	16.3	34.9	38.2	34.4	29.3
18 to 19 years	16.1	12.8	13.8	11.0	31.5	24.6	19.8	17.4
20 to 24 years	9.8	9.2	8.0	7.6	20.9	18.7	12.0	11.2
25 years and over	4.4	3.9	3.9	3.5	8.1	7.1	7.2	5.9
25 to 54 years	4.6	4.1	4.1	3.6	8.7	7.5	7.2	5.9
55 years and over	3.4	3.0	3.3	2.8	3.8	3.4	7.4	5.4
Men, 16 years and over	5.9	5.2	5.3	4.6	11.6	9.9	8.3	7.2
16 to 19 years	19.3	17.7	16.5	16.0	41.4	32.4	24.2	22.8
16 to 17 years	22.5	21.2	19.6	19.4	44.1	39.4	34.3	31.8
18 to 19 years	17.3	15.3	14.5	13.6	39.5	28.5	19.0	18.4
20 to 24 years	10.7	9.9	9.2	8.3	22.5	20.1	12.0	10.8
25 years and over	4.6	3.9	4.1	3.5	8.2	7.0	6.3	5.3
25 to 54 years	4.7	4.0	4.2	3.6	8.6	7.4	6.2	5.4
55 years and over	3.7	3.4	3.6	3.3	4.6	3.8	7.7	4.4
Women, 16 years and over	5.4	4.9	4.6	4.2	10.4	9.4	10.2	8.3
16 to 19 years	15.8	12.4	14.2	10.2	25.1	26.8	25.5	18.7
16 to 17 years	17.1	15.7	15.8	12.9	25.1	37.1	34.4	25.3
18 to 19 years	15.0	10.2	13.1	8.3	25.1	21.3	20.9	16.2
20 to 24 years	8.7	8.5	6.7	6.8	19.5	17.5	12.0	11.9
25 years and over	4.3	3.9	3.7	3.4	8.1	7.1	8.5	6.8
25 to 54 years	4.5	4.2	3.8	3.6	8.7	7.6	8.7	6.8
55 years and over	3.0	2.4	2.9	2.3	3.1	3.1	7.0	6.8

NOTE: Beginning in January 1998, data reflect new composite household survey. estimation procedures and revised population controls used in the

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-18. Unemployed persons by reason for unemployment, race, and Hispanic origin

(Numbers in thousands)

Reasons	Total		White		Black		Hispanic origin	
	1997	1998	1997	1998	1997	1998	1997	1998
NUMBER OF UNEMPLOYED								
Total unemployed	7,660	6,896	5,641	5,064	1,674	1,509	1,227	1,076
Job losers and persons who completed temporary jobs	3,727	3,374	2,890	2,577	689	649	591	519
On temporary layoff	1,360	1,248	1,180	1,056	140	143	205	197
Not on temporary layoff	2,367	2,125	1,710	1,521	548	506	386	322
Permanent job losers	1,611	1,500	1,211	1,116	325	320	231	203
Persons who completed temporary jobs	756	625	499	405	223	186	155	119
Job leavers	826	785	655	607	145	143	98	101
Reentrants	2,555	2,256	1,733	1,578	689	571	403	371
New entrants	553	482	363	301	150	146	136	84
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers and persons who completed temporary jobs	48.7	48.9	51.2	50.9	41.2	43.0	48.2	48.3
On temporary layoff	17.7	18.1	20.9	20.8	8.4	9.4	16.7	18.3
Not on temporary layoff	30.9	30.8	30.3	30.0	32.8	33.5	31.4	30.0
Job leavers	10.8	11.4	11.6	12.0	8.7	9.5	8.0	9.4
Reentrants	33.3	32.7	30.7	31.2	41.2	37.8	32.8	34.5
New entrants	7.2	7.0	6.4	6.0	9.0	9.7	11.1	7.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers and persons who completed temporary jobs	2.8	2.5	2.5	2.3	4.5	4.1	4.4	3.7
Job leavers .....	.6	.6	.6	.5	1.0	.9	.7	.7
Reentrants	1.9	1.7	1.5	1.4	4.5	3.6	3.0	2.6
New entrants .....	.4	.4	.3	.3	1.0	.9	1.0	.6

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-19. Unemployed persons by duration of unemployment, race, and Hispanic origin

(Numbers in thousands)

Duration	Total		White		Black		Hispanic origin	
	I 1997	I 1998	I 1997	I 1998	I 1997	I 1998	I 1997	I 1998
NUMBER OF UNEMPLOYED								
Total, 16 years and over	7,660	6,896	5,641	5,064	1,674	1,509	1,227	1,076
Less than 5 weeks	2,702	2,715	2,119	2,100	468	497	436	436
5 to 14 weeks	2,631	2,226	1,962	1,672	551	455	403	340
15 weeks and over	2,327	1,956	1,560	1,291	654	557	389	300
15 to 26 weeks	1,147	945	815	666	282	223	194	137
27 weeks and over	1,180	1,010	745	626	372	334	195	163
Average (mean) duration, in weeks	15.8	15.2	14.3	13.7	20.3	19.6	15.8	14.8
Median duration, in weeks	8.5	7.5	7.8	6.8	10.9	9.8	8.6	7.0
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	35.3	39.4	37.6	41.5	28.0	33.0	35.5	40.5
5 to 14 weeks	34.4	32.3	34.8	33.0	32.9	30.1	32.8	31.6
15 weeks and over	30.4	28.4	27.6	25.5	39.1	36.9	31.7	27.9
15 to 26 weeks	15.0	13.7	14.4	13.1	16.9	14.8	15.8	12.7
27 weeks and over	15.4	14.7	13.2	12.4	22.2	22.1	15.9	15.2

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

Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-20. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	I 1997	I 1998	I 1997	I 1998
SEX AND AGE				
Total, 16 years and over	90,734	93,183	\$504	\$521
Men, 16 years and over	51,604	52,791	582	596
16 to 24 years	5,409	5,560	319	337
25 years and over	46,195	47,230	615	629
Women, 16 years and over	39,129	40,392	427	455
16 to 24 years	4,084	4,110	289	304
25 years and over	35,045	36,283	456	480
RACE, HISPANIC ORIGIN, AND SEX				
White	75,743	77,526	519	543
Men	44,009	44,840	599	611
Women	31,734	32,686	440	467
Black	10,879	11,383	399	418
Men	5,340	5,579	426	452
Women	5,539	5,803	372	395
Hispanic origin	9,623	10,183	349	364
Men	6,145	6,475	369	381
Women	3,478	3,707	316	330

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-21. Median weekly earnings of part-time wage and salary workers by selected characteristics

Age, race, and Hispanic origin	Number of workers (in thousands)		Median weekly earnings	
	I 1997	I 1998	I 1997	I 1998
SEX AND AGE				
Total, 16 years and over	21,302	21,705	\$143	\$152
Men, 16 years and over	6,620	6,797	130	142
16 to 24 years	3,577	3,746	108	114
25 years and over	3,043	3,051	179	198
Women, 16 years and over	14,682	14,908	148	155
16 to 24 years	4,456	4,845	107	111
25 years and over	10,226	10,062	172	184
RACE, HISPANIC ORIGIN, AND SEX				
White	18,523	18,646	143	152
Men	5,741	5,799	129	140
Women	12,782	12,847	149	157
Black	2,023	2,165	138	147
Men	586	659	132	149
Women	1,438	1,506	140	147
Hispanic origin	1,905	1,869	140	155
Men	739	680	145	167
Women	1,166	1,190	137	150

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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-22. Median weekly earnings of full-time wage and salary workers by occupation and sex

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	1997	1998	1997	1998
TOTAL				
Managerial and professional specialty	28,164	28,748	\$740	\$741
Executive, administrative, and managerial	13,625	14,026	726	730
Professional specialty	14,539	14,721	754	750
Technical, sales, and administrative support	25,841	26,602	453	476
Technicians and related support	3,445	3,414	578	597
Sales occupations	8,783	9,285	482	505
Administrative support, including clerical	13,614	13,904	415	435
Service occupations	9,587	10,415	310	323
Private household	351	382	215	214
Protective service	1,870	2,197	570	595
Service, except private household and protective	7,365	7,836	292	301
Precision production, craft, and repair	11,035	11,535	547	567
Mechanics and repairers	3,901	4,127	578	596
Construction trades	3,675	3,788	532	535
Other precision production, craft, and repair	3,460	3,620	524	552
Operators, fabricators, and laborers	14,811	14,755	398	409
Machine operators, assemblers, and inspectors	7,256	7,057	388	405
Transportation and material moving occupations	3,968	4,228	492	505
Handlers, equipment cleaners, helpers, and laborers	3,588	3,469	336	342
Farming, forestry, and fishing	1,294	1,128	294	302
Men				
Managerial and professional specialty	14,562	14,516	875	865
Executive, administrative, and managerial	7,530	7,384	858	864
Professional specialty	7,032	7,132	889	865
Technical, sales, and administrative support	9,861	10,222	591	606
Technicians and related support	1,793	1,751	663	697
Sales occupations	4,939	5,179	604	619
Administrative support, including clerical	3,129	3,292	515	522
Service occupations	4,691	5,243	363	388
Private household	10	15	(1)	(1)
Protective service	1,585	1,854	\$582	\$604
Service, except private household and protective	3,096	3,374	315	317
Precision production, craft, and repair	10,095	10,564	572	585
Mechanics and repairers	3,757	3,943	582	598
Construction trades	3,621	3,720	535	539
Other precision production, craft, and repair	2,717	2,901	602	613
Operators, fabricators, and laborers	11,295	11,309	429	452
Machine operators, assemblers, and inspectors	4,688	4,591	443	475
Transportation and material moving occupations	3,721	3,865	498	515
Handlers, equipment cleaners, helpers, and laborers	2,887	2,853	345	350
Farming, forestry, and fishing	1,099	936	307	303
Women				
Managerial and professional specialty	13,602	14,231	630	647
Executive, administrative, and managerial	6,095	6,642	597	620
Professional specialty	7,507	7,589	663	671
Technical, sales, and administrative support	15,980	16,381	400	418
Technicians and related support	1,652	1,663	496	512
Sales occupations	3,843	4,106	346	386
Administrative support, including clerical	10,485	10,612	398	414
Service occupations	4,896	5,172	279	290
Private household	341	367	214	211
Protective service	286	343	495	492
Service, except private household and protective	4,269	4,462	278	288
Precision production, craft, and repair	940	971	366	404
Mechanics and repairers	144	184	420	508
Construction trades	54	68	(1)	(1)
Other precision production, craft, and repair	742	719	\$357	\$385
Operators, fabricators, and laborers	3,516	3,445	316	321
Machine operators, assemblers, and inspectors	2,568	2,466	311	323
Transportation and material moving occupations	247	363	392	325
Handlers, equipment cleaners, helpers, and laborers	701	616	312	308
Farming, forestry, and fishing	195	193	240	297

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

NOTE: Beginning in January 1998, data reflect new composite

estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-23. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	↓ 1997	↓ 1998	Total		Employed		Unemployed			
			↓ 1997	↓ 1998	↓ 1997	↓ 1998	Number		Percent of labor force	
							↓ 1997	↓ 1998	↓ 1997	↓ 1998
VIETNAM-ERA VETERANS										
Total, 40 years and over	7,789	7,809	6,673	6,586	6,436	6,373	237	213	3.6	3.2
40 to 54 years	6,398	6,095	5,798	5,474	5,589	5,295	209	178	3.6	3.3
40 to 44 years	1,113	840	1,007	757	957	738	49	19	4.9	2.6
45 to 49 years	2,861	2,391	2,596	2,167	2,516	2,095	79	72	3.1	3.3
50 to 54 years	2,424	2,864	2,196	2,549	2,115	2,462	81	87	3.7	3.4
55 years and over	1,391	1,714	875	1,112	847	1,078	28	35	3.2	3.1
NONVETERANS										
Total, 40 to 54 years	18,973	19,976	17,161	18,120	16,445	17,490	716	630	4.2	3.5
40 to 44 years	8,816	9,160	8,109	8,464	7,766	8,175	344	290	4.2	3.4
45 to 49 years	5,992	6,572	5,444	5,987	5,234	5,787	210	201	3.9	3.3
50 to 54 years	4,165	4,244	3,608	3,669	3,445	3,529	162	140	4.5	3.8

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces. Beginning in January 1998, data reflect new

composite estimation procedures and revised population controls used in the household survey.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

D-24. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
Total, 40 to 54 years												
Civilian noninstitutional population	5,728	5,462	548	495	285	280	15,996	16,783	2,027	2,179	1,939	2,039
Civilian labor force	5,240	4,935	453	414	259	243	14,700	15,439	1,607	1,764	1,750	1,808
Employed	5,058	4,784	428	389	251	239	14,157	14,957	1,466	1,657	1,652	1,725
Unemployed	182	150	25	26	8	4	543	481	141	107	98	83
Unemployment rate	3.5	3.0	5.4	6.2	3.3	1.5	3.7	3.1	8.8	6.1	5.6	4.6
40 to 44 years												
Civilian noninstitutional population	965	712	110	108	80	60	7,441	7,710	945	973	904	944
Civilian labor force	877	644	92	95	67	57	6,946	7,227	771	807	832	858
Employed	836	630	85	91	64	56	6,691	7,007	702	753	788	819
Unemployed	41	15	7	4	4	-	255	220	70	54	45	39
Unemployment rate	4.7	2.3	7.5	4.3	5.2	-	3.7	3.0	9.0	6.6	5.4	4.6
45 to 49 years												
Civilian noninstitutional population	2,536	2,106	276	235	99	96	5,079	5,563	648	720	573	641
Civilian labor force	2,330	1,919	229	204	93	80	4,685	5,108	520	610	510	560
Employed	2,259	1,866	220	187	91	79	4,517	4,947	482	581	484	538
Unemployed	71	53	8	17	2	1	168	162	38	29	26	22
Unemployment rate	3.0	2.8	3.7	8.5	1.9	1.6	3.6	3.2	7.3	4.8	5.1	3.8
50 to 54 years												
Civilian noninstitutional population	2,227	2,644	161	151	106	124	3,475	3,510	433	485	461	453
Civilian labor force	2,032	2,371	132	115	99	106	3,069	3,104	315	347	408	390
Employed	1,962	2,289	123	111	96	104	2,949	3,004	281	323	380	368
Unemployed	70	82	9	4	3	2	120	100	34	24	28	23
Unemployment rate	3.5	3.5	7.0	3.6	3.2	2.0	3.9	3.2	10.8	7.0	6.8	5.8

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces. 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 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

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 because 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 pay-

roll 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 Unemploy-

ment" 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.

Effective with data for 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.

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.

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 unemployment 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 coun-

ties. 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 additional 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.

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

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

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

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

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

⁴ 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.

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; 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 personnel 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.

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 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-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

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 quarterly 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.

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
Occupation		
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
Industry		
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

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-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-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-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.

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

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

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.

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

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

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 60,000 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 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.

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

Characteristic	a	b
Labor force and not-in-labor-force data other than agricultural employment and unemployment:		
Total ¹	-0.000017682	2985.26
Men ¹	-.000032770	2764.05
Women	-.000029553	2529.99
Both sexes, 16 to 19 years	-.000171805	2544.62
White ¹	-.000020028	2984.72
Men	-.000036840	2766.67
Women	-.000033710	2526.82
Both sexes, 16 to 19 years	-.000204195	2549.88
Black	-.000125300	3139.26
Men	-.000302096	2930.79
Women	-.000182509	2637.41
Both sexes, 16 to 19 years	-.001294516	2949.48
Hispanic origin	-.000206380	3895.71
Not in labor force, total or white, excluding women and 16-to-19 year olds .....	.000005931	828.79
Agricultural employment:		
Total or white .....	.000782035	3048.57
Men .....	.000858136	2825.09
Women or both sexes, 16 to 19 years	-.000024885	2582.39
Black	-.000134884	3154.76
Hispanic origin:		
Total or women .....	.011857446	2894.85
Men or both sexes, 16 to 19 years .....	.015736341	1702.50
Unemployment:		
Total or white	-.000017962	2957.13
Black	-.000212109	3149.77
Hispanic origin	-.000101820	3576.47

¹ Excludes not-in-labor-force data.

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 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.

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 ¹	-0.00009288	1564.84
Low correlation characteristics ¹	-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	-0.00395757	3838.04
Men	-0.00672985	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	-0.19110769	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:²		
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	-0.00414217	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	-0.00996431	7037.75

¹ 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.

² 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.

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

Establishment Data ("B" tables)

COLLECTION

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

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

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

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

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

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

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

graphic stratification and differences in the timing of benchmark adjustments.

CONCEPTS

Industrial classification

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

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

Industry employment

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

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

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

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

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

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

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

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

Industry hours and earnings

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

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

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

by members of the construction trades.

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

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

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

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

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

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

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

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

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

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

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

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

For each sample establishment in SIC 3721 and SIC 3761

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

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

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

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

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

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

ESTIMATING METHODS

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

Benchmarks

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

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

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

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

sample versus the full universe counts derived from the UI.

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

Monthly estimation

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

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

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

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

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

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

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

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

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings

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

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 1986-96 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 1996 is listed as 129,000; this represents the average of bias adjustments made each month over the period April 1995 through March 1996. 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 1986-96
(In thousands)

Year	Benchmark		Average monthly bias		Over-the-year employment change ⁵
	Employment ¹	Revision ²	Added ³	Required ⁴	
1986	81,204	-400	149	116	1,758
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

¹ 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.

² Difference between the final March sample-based estimate and the benchmark level for total private employment.

³ 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.

⁴ 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.

⁵ 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 ρ 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

Table 2-C. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1996

Industry	Bench- marks (thou- sands)	Sample coverage ¹		
		Number of establish- ments	Employees	
			Number (thou- sands)	Percent of bench- marks
Total	117,952	327,799	44,496	38
Mining	566	3,172	237	42
Construction	4,952	26,429	978	20
Manufacturing	18,366	58,259	8,968	49
Transportation and public utilities	6,159	² 16,432	2,358	38
Wholesale trade ..	6,396	25,768	1,153	18
Retail trade	21,023	63,150	4,959	24
Finance, insurance, and real estate ...	6,815	24,268	2,200	32
Services	33,881	78,057	8,286	24
Government:				
Federal	2,770	³ 5,335	2,770	100
State	4,750	7,098	3,987	84
Local	12,274	19,831	8,600	70

¹ 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.

² 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.

³ Total Federal employment counts by agency for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of reports covering about 62 percent of employment in Federal establishments.

Table 2-D. Current (March 1996) and historical benchmark revisions

(Numbers in thousands)

Industry	March 1996 benchmark revision		10-year average mean percent revision ¹	
	Level	Percent	Actual	Absolute
Total	57	(?)	(?)	0.3
Total private	72	.1	(?)	.3
Goods-producing	189	.8	-0.1	.8
Mining	3	.5	-1.2	1.7
Metal mining	3	5.7	-1.6	3.1
Coal mining	-3	-3.1	-1.1	2.2
Oil and gas extraction	7	2.2	-1.4	2.6
Nonmetallic minerals, except fuels	-1	-1.0	-4	1.6
Construction	8	.2	-7	1.4
General building contractors	21	1.8	-4	2.6
Heavy construction, except building	7	1.0	.2	1.8
Special trade contractors	-19	-6	-1.0	1.5
Manufacturing	178	1.0	.1	.7
Durable goods	92	.9	.1	.7
Lumber and wood products	16	2.1	.2	1.7
Furniture and fixtures	3	.6	.3	1.1
Stone, clay, and glass products	5	.9	.3	.7
Primary metal industries	5	.7	-1	.9
Blast furnaces and basic steel products	3	1.2	.4	1.3
Fabricated metal products	-3	-2	(?)	.9
Industrial machinery and equipment	26	1.2	-1	1.3
Computer and office equipment	4	1.1	(?)	2.4
Electronic and other electrical equipment	1	.1	-5	.9
Electronic components and accessories	-3	-5	-4	1.7
Transportation equipment	17	1.0	1.0	1.1
Motor vehicles and equipment	9	1.0	1.4	1.4
Aircraft and parts	5	1.1	1.0	1.5
Instruments and related products	21	2.5	.2	1.9
Miscellaneous manufacturing	1	.3	2.0	1.4
Nondurable goods	86	1.1	(?)	.7
Food and kindred products	37	2.2	.1	1.0
Tobacco products	0	0	-2	4.5
Textile mill products	-10	-1.6	-1	.9
Apparel and other textile products	17	1.9	.1	1.3
Paper and allied products	4	.6	.4	.6
Printing and publishing	10	.6	-3	.8
Chemicals and allied products	11	1.1	-1	.9
Petroleum and coal products	3	2.1	-5	1.6
Rubber and miscellaneous plastics products	13	1.3	.5	1.5
Leather and leather products	0	0	-6	2.5
Service-producing	-132	-1	.1	.3
Transportation and public utilities	-74	-1.2	-3	1.0
Transportation	-14	-4	-4	1.3
Railroad transportation	0	0	-9	1.1
Local and interurban passenger transit	-13	-2.9	.1	2.4
Trucking and warehousing	-242	-15.2	-1.6	2.9
Water transportation	0	0	.5	3.6
Transportation by air	261	23.9	2.7	5.2
Pipelines, except natural gas	1	6.7	.6	5.1
Transportation services	-21	-5.1	-1.6	3.3
Communications and public utilities	-60	-2.7	-2	1.1
Communications	-50	-3.8	-2	1.7
Electric, gas, and sanitary services	-11	-1.2	-2	.8
Wholesale trade	-108	-1.7	-4	1.3
Durable goods	-66	-1.8	-5	1.5
Nondurable goods	-42	-1.6	-3	1.1

See footnotes at end of table.

Table 2-D. Current (March 1996) and historical benchmark revisions—Continued
(Numbers in thousands)

Industry	March 1996 benchmark revision		10-year average mean percent revision ¹	
	Level	Percent	Actual	Absolute
Retail trade	111	.5	.5	.7
Building materials and garden supplies	-11	-1.3	.2	1.6
General merchandise stores	9	.3	2.2	2.7
Department stores	-6	-.3	2.8	3.5
Food stores	7	.2	-.2	.8
Automotive dealers and service stations	-1	(²)	-1.1	1.1
New and used car dealers	1	.1	-.5	1.0
Apparel and accessory stores	-4	-.4	1.1	1.6
Furniture and home furnishings stores	9	.9	-.4	1.1
Eating and drinking places	79	1.1	.8	1.3
Miscellaneous retail establishments	20	.8	.3	.9
Finance, insurance, and real estate	-78	-1.1	-.4	1.2
Finance	-25	-.8	-.8	1.3
Depository institutions	-2	-.1	-1.0	1.3
Commercial banks	-5	-.3	-.4	.7
Savings institutions ³	3	1.1	-4.2	6.4
Nondepository institutions	2	.4	.8	2.0
Mortgage bankers and brokers	0	0	.9	4.9
Security and commodity brokers	9	1.7	.1	1.3
Holding and other investment offices	-33	-15.9	-4.1	5.3
Insurance	-44	-2.0	.2	1.3
Insurance carriers	-40	-2.7	.2	1.5
Insurance agents, brokers, and service	-4	-.6	.1	1.5
Real estate	-9	-.7	-.6	1.6
Services ⁴	32	.1	.1	.5
Agricultural services	10	1.8	2.3	2.5
Hotels and other lodging places	35	2.1	.7	1.5
Personal services	-1	-.1	.6	1.4
Business services	84	1.2	.4	1.8
Services to buildings	2	.2	1.2	1.6
Personnel supply services	1	(²)	1.3	3.6
Help supply services ³	-2	-.1	1.4	2.7
Computer and data processing services	30	2.5	-.8	2.9
Auto repair, services, and parking	1	.1	-1.0	1.4
Miscellaneous repair services	10	2.7	-.7	4.7
Motion pictures	-4	-.8	-.2	4.3
Amusement and recreation services	-59	-4.4	-.2	3.3
Health services	-84	-.9	-.8	.9
Offices and clinics of medical doctors	11	.7	-1.2	1.8
Nursing and personal care facilities	-5	-.3	-.7	.9
Hospitals	-38	-1.0	-.8	.8
Home health care services ³	8	1.2	1.0	2.6
Legal services	-3	-.3	-.4	1.2
Educational services	19	.9	1.1	2.8
Social services	10	.4	-.7	1.7
Child day care services	-4	-.7	-2.6	4.7
Residential care	8	1.2	0	1.6
Museums and botanical and zoological gardens	0	0	1.2	2.5
Membership organizations	45	2.1	2.6	3.3
Engineering and management services ³	-52	-1.8	.2	1.6
Engineering and architectural services	2	.2	-.5	1.4
Management and public relations ³	-38	-4.5	1.3	3.7
Services, nec	1	2.2	.6	.8
Government	-15	-.1	(²)	.2
Federal	0	0	0	0
Federal, except Postal Service	0	0	0	0
State	-23	-.5	.4	.5
Education	-39	-1.9	.5	1.0
Other State government	15	.6	.3	.5
Local	8	.1	-.1	.3
Education	8	.1	-.1	.4
Other local government	-1	(²)	.4	

¹ Data relate to the 1987-96 benchmarks, as originally published, unless otherwise noted.

² Less than 0.05 percent.

³ Data relate to 1989-96.

⁴ Includes other industries, not shown separately.

Table 2-E. Relative standard errors¹ 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

¹ Relative errors were estimated with sample data from March 1994-March 1995.

Table 2-F. Relative standard errors¹ 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

¹ Relative errors were estimated with sample data from March 1994-March 1995.

amount of 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 ¹	Mean percent revision	
		Actual	Absolute
Total	61,300	0	0
Total private	52,300	0	0
Goods-producing	14,200	0	0
Mining	2,300	-0.1	.3
Metal mining	300	0	.4
Coal mining	900	-.1	.6
Oil and gas extraction	2,200	-.1	.5
Nonmetallic minerals, except fuels	300	0	.3
Construction	9,000	.1	.1
General building contractors	4,400	.1	.3
Heavy construction, except building	3,700	.1	.4
Special trade contractors	5,700	.1	.1
Manufacturing	10,200	0	0
Durable goods	6,700	0	.1
Lumber and wood products	1,300	.1	.1
Furniture and fixtures	1,300	0	.2
Stone, clay, and glass products	1,100	0	.2
Primary metal industries	1,400	0	.1
Blast furnaces and basic steel products	1,300	0	.4
Fabricated metal products	1,800	0	.1
Industrial machinery and equipment	2,600	0	.1
Computer and office equipment	1,400	.1	.3
Electronic and other electrical equipment	2,400	.1	.1
Electronic components and accessories	1,300	.1	.2
Transportation equipment	4,300	0	.2
Motor vehicles and equipment	3,700	.1	.3
Aircraft and parts	1,800	-.1	.2
Instruments and related products	1,700	0	.1
Miscellaneous manufacturing	1,200	0	.2
Nondurable goods	5,500	0	.1
Food and kindred products	3,300	-.1	.2
Tobacco products	500	.3	.8
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	1,700	.1	.1
Chemicals and allied products	1,800	-.1	.1
Petroleum and coal products	1,000	-.1	.5
Rubber and miscellaneous plastics products	1,600	0	.1
Leather and leather products	700	-.1	.4
Service-producing	57,600	0	0
Transportation and public utilities	9,200	-.1	.1
Transportation	8,100	-.1	.2
Railroad transportation	2,200	-.3	.7
Local and interurban passenger transit	3,500	-.2	.5
Trucking and warehousing	5,400	-.1	.2
Water transportation	1,500	-.3	.7
Transportation by air	2,500	-.1	.3
Pipelines, except natural gas	200	-.4	.8
Transportation services	1,200	-.1	.3
Communications and public utilities	4,600	0	.1
Communications	4,500	0	.2
Electric, gas, and sanitary services	1,600	0	.1
Wholesale trade	7,700	.1	.1
Durable goods	4,400	.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 ¹	Mean percent revision	
		Actual	Absolute
Retail trade	33,100	.1	.1
Building materials and garden supplies	2,800	0	.3
General merchandise stores	17,600	.2	.5
Department stores	16,200	.2	.5
Food stores	6,300	.1	.1
Automotive dealers and service stations	2,700	0	.1
New and used car dealers	1,200	-.1	.1
Apparel and accessory stores	5,800	.2	.4
Furniture and home furnishings stores	3,600	.1	.3
Eating and drinking places	12,400	.1	.1
Miscellaneous retail establishments	8,500	.2	.3
Finance, insurance, and real estate	6,100	0	.1
Finance	3,800	0	.1
Depository institutions	2,800	-.1	.1
Commercial banks	2,300	-.1	.1
Savings institutions	1,100	-.1	.3
Nondepository institutions	1,400	.1	.2
Mortgage bankers and brokers	1,000	0	.3
Security and commodity brokers	900	0	.1
Holding and other investment offices	1,600	-.1	.5
Insurance	2,800	0	.1
Insurance carriers	2,400	0	.1
Insurance agents, brokers, and service	1,000	0	.1
Real estate	2,700	0	.2
Services ²	29,100	0	.1
Agricultural services	3,200	.2	.4
Hotels and other lodging places	5,900	.2	.3
Personal services	8,100	-.1	.4
Business services	13,900	.1	.2
Services to buildings	2,800	0	.3
Personnel supply services	11,800	.2	.4
Help supply services	11,400	.2	.4
Computer and data processing services	2,400	0	.2
Auto repair, services, and parking	1,900	0	.1
Miscellaneous repair services	1,100	0	.2
Motion pictures	5,500	0	.8
Amusement and recreation services	9,700	.3	.6
Health services	5,300	0	0
Offices and clinics of medical doctors	2,700	0	.1
Nursing and personal care facilities	2,000	0	.1
Hospitals	2,800	0	.1
Home health care services	1,800	.1	.3
Legal services	1,100	0	.1
Educational services	13,200	0	.6
Social services	7,900	.1	.3
Child day care services	4,800	.3	.7
Residential care	1,300	0	.2
Museums and botanical and zoological gardens	700	.2	.7
Membership organizations	3,800	0	.2
Engineering and management services	4,900	0	.2
Engineering and architectural services	2,400	0	.3
Management and public relations	3,100	.1	.3
Services, nec	400	.1	.8
Government	23,900	0	.1
Federal	10,400	0	.3
Federal, except Postal Service	8,900	0	.3
State	11,600	0	.2
Education	10,900	0	.5
Other State government	4,700	0	.1
Local	18,800	0	.1
Education	16,000	.1	.2
Other local government	12,100	0	.2

¹ 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.

² Includes other industries, not shown separately.

NOTE: Errors are based on differences from January 1992 through December 1996.

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 328 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 varia-

tion 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 calculation 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
At work	A-7	A-23-27	D-5		19-23
Class of worker	A-7	A-22	D-5	D-14-15	12-13, 15-16
Diffusion index	B-6				
Discouraged workers		A-36			35
Earnings, hourly	B-11	B-2, 15-18			B-2, 15-17; 50; 2
Earnings, weekly	B-11	B-2, 15, 17-18		D-20-22	B-2, 15, 17; 37-39, 50; 2
Educational attainment	A-5	A-16-17	D-3		7
Employment by:					
Age	A-3-4, 6, 8	A-14-16, 18-19, 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, 35	D-9		25, 32
Race	A-4	A-14-18, 28, 31, 34	D-2	D-12, 17-21	3, 5, 7-8, 24, 28, 31, 33
Reason	A-12	A-31-32	D-10	D-18	27-29
Sex	A-2-4, 6, 9-10	A-14-18, 28-32, 34	D-1-2, 7-8	D-12-13, 17	2-8, 24, 25-27, 29, 31, 33-35
Union affiliation					40-43
Veterans, Vietnam-era		A-38		D-23-24	46-47

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