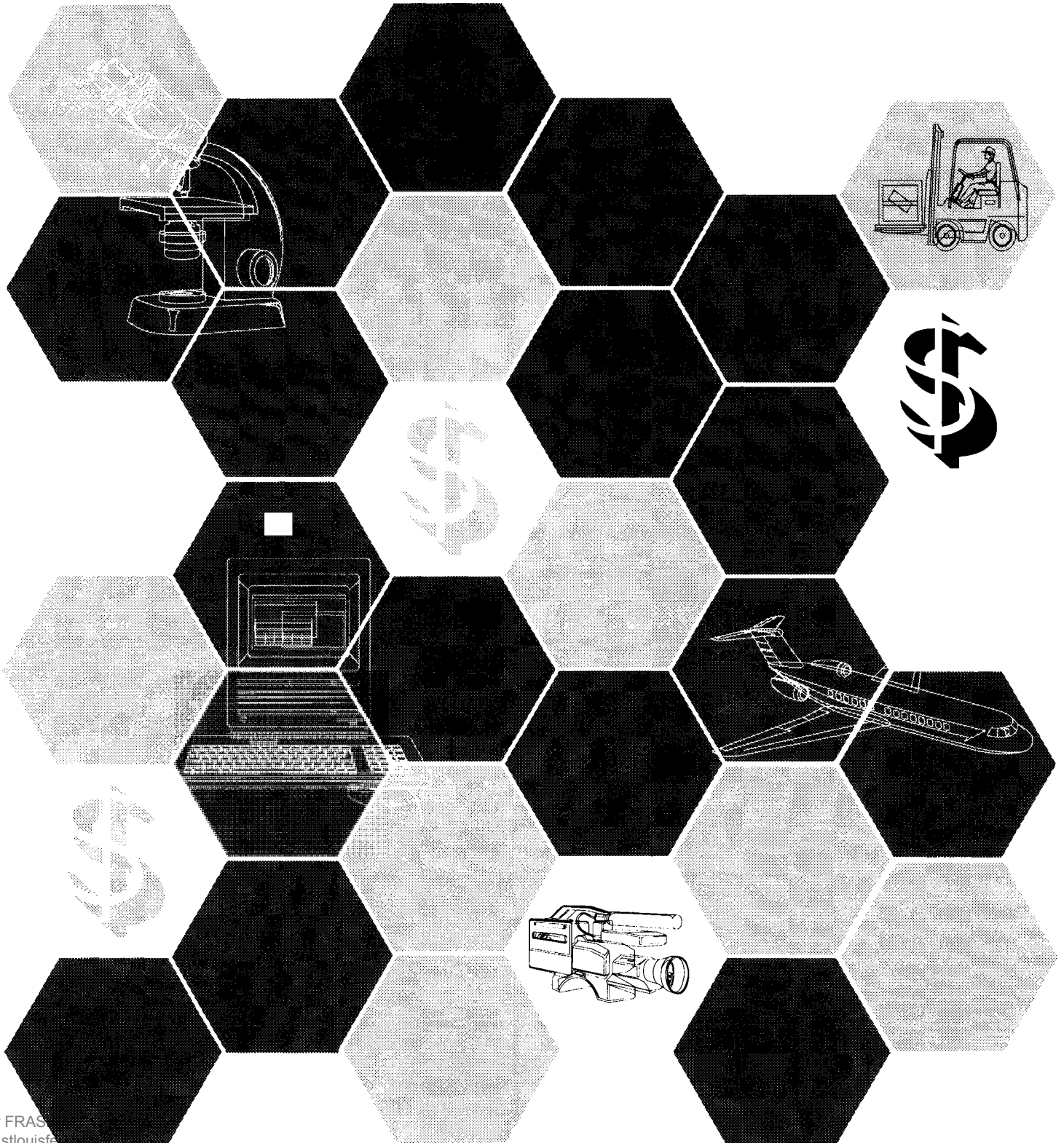




# EMPLOYMENT AND EARNINGS

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

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





**U.S. DEPARTMENT OF LABOR**  
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BUREAU OF LABOR STATISTICS  
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July 1998  
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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

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# Employment and Unemployment Developments, June 1998

Nonfarm payroll employment rose in June, and the unemployment rate edged up to 4.5 percent. Payroll employment grew by 205,000, following 2 months of gains above 300,000. Job gains occurred in construction and in many service-producing industries, while employment in manufacturing fell.

## Unemployment

The number of unemployed persons increased from 5.9 to 6.2 million in June. The unemployment rate was 4.5 percent; it had been 4.3 percent in the prior 2 months. The jobless rate for whites rose by 0.3 percentage point to 4.0 percent. Unemployment rates across most of the other major demographic groups—adult men (3.7 percent), adult women (4.1 percent), teenagers (14.6 percent), blacks (8.2 percent), and Hispanics (7.6 percent)—were not significantly changed from May. (See tables A-3 and A-4.)

Among the major educational attainment categories, the unemployment rate for high school graduates 25 years and older with no college experience rose by 0.3 percentage point to 4.0 percent. Jobless rates for persons with less than a high school diploma (7.2 percent), some college experience but no bachelor's degree (2.9 percent), and college graduates (1.7 percent) were essentially unchanged. (See table A-5.)

The number of persons unemployed for 15 weeks or more increased slightly to 1.6 million in June, but has fallen by about 350,000 over the last year (after adjustment is made for changes in the composite estimation procedure). (See table A-13.)

## Total employment and the labor force

Total employment was essentially unchanged at 131.2 million in June. The employment-population ratio—the proportion of the population age 16 and older with jobs—was 64.0 percent, just below the all-time high of 64.2 percent that had prevailed for most of this year. (See table A-3.)

About 7.7 million persons (not seasonally adjusted) held more than one job in June. These multiple jobholders comprised 5.8 percent of total employment. (See table A-37.)

The civilian labor force was about unchanged in June, at 137.4 million (seasonally adjusted). The labor force participation rate held at 67.0 percent for the third consecutive month. (See table A-3.)

## Persons not in the labor force

About 1.2 million persons (not seasonally adjusted) were marginally attached to the labor force in June, down somewhat from a year earlier. 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. (See table A-36.)

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 311,000 in June.

## Industry payroll employment

Nonfarm payroll employment rose by 205,000 in June, after seasonal adjustment. Employment gains were widespread across the private sector, but were partially offset by job losses in manufacturing and government. (See table B-3.)

The services industry added 136,000 jobs in June. This followed a gain of 153,000 in May and a series of much smaller increases from February through April. Business services accounted for nearly half of June's increase, with help supply services and computer services adding 32,000 and 21,000 jobs, respectively. Engineering and management services gained 25,000 jobs, health services, 23,000, and social services, 13,000, each continuing its long-term growth trend.

Employment in retail trade grew by 53,000 in June, the industry's third consecutive large monthly increase. Employment growth was led by eating and drinking places (21,000), furniture and home furnishings stores (8,000), miscellaneous retail establishments (7,000), and automotive dealers and service stations (6,000). Wholesale trade employment increased by 15,000, about in line with the average for the prior 12 months.

Finance, insurance, and real estate continued its steady growth pattern, adding 30,000 jobs over the month. The gains were widespread, with the largest occurring in security and commodity brokerages, nondepository institutions, and insurance carriers. Real estate employment also rose, after showing little change in May.

Transportation and public utilities added 14,000 jobs in June, following a similar gain in May. Employment in trucking and warehousing increased by 11,000, and communications added 8,000 jobs.

Construction employment grew by 20,000 in June, following a decline in May. Employment changes in this industry have varied in recent months, reflecting the impact of unusual weather; the industry has added 215,000 jobs since last October.

Manufacturing employment fell by 29,000 in June, following a decline of 22,000 in May. The June losses were widespread; the largest (6,000 each) were in apparel, which continued its long-term decline, and in automobile manufacturing. A strike involving 3,000 workers in an auto stamping plant (in the fabricated metals industry) led to several plant shutdowns in the auto industry. Textiles, paper products, electronic components, and food and kindred products also lost jobs. In contrast to all of these declines, printing and publishing employment rose by 5,000, after 4 months of virtually no change, and employment in stone, clay, and glass products, which has been moving erratically for several months, increased by 3,000.

Government payrolls fell in June by 33,000, mostly in schools, where employment was strong in May. The noneducation component of State government also recorded a drop in employment, primarily because of a strike in public transportation, while local government other than educa-

tion continued to add jobs. Federal Government employment continued to decline.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged down by 0.1 hour in June to 34.6 hours, seasonally adjusted. In manufacturing, the workweek and overtime were unchanged at 41.8 and 4.6 hours, respectively. Weekly hours in auto manufacturing fell by 0.9 hour due to the strike-related plant shutdowns that occurred during the survey reference period. (See table B-8.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls was little changed at 144.8 (1982=100), seasonally adjusted. The manufacturing index edged down by 0.3 percent to 109.1. (See table B-9.)

### Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls edged up 1 cent in June to \$12.74, seasonally adjusted. Average weekly earnings decreased by 0.2 percent to \$440.80. Over the year, average hourly and weekly earnings have risen by 4.1 and 4.4 percent, respectively. (See table B-11.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
July	August 7	October	November 6
August	September 4	November	December 5
September	October 2	December	January 8

# New Seasonal Adjustment Factors for Household Data Series

Robert J. McIntire

Semiannually, the Bureau of Labor Statistics publishes the factors to be used during the following 6 months for seasonal adjustment of the major labor force series. Table 1 presents the seasonal adjustment factors for the 12 major labor force components for the period July-December 1998. The factors for these components for the first 6 months of 1998 were published in the January 1998 issue of *Employment and Earnings*. The 12 seasonally adjusted series which result from the application of these factors are used in the computation of the seasonally adjusted figures for the national overall levels of labor force, employment, and unemployment and the overall unemployment rate.

The new seasonal factors have been extrapolated using the X-11 ARIMA program with data from January 1990 through June 1998 for each series. The ARIMA models used were the same as those used earlier in the year for the extrapolation of the factors for January through June; they were identified in the January 1998 issue of this publication. The historical seasonally adjusted data, including the first 6 months of 1998, will not be revised until the beginning of 1999.

Because of the changes introduced at the beginning of

1994 and 1997 in the survey and the processing procedures on which the labor force series estimates are based,<sup>1</sup> prior adjustment factors were used in these X-11 ARIMA runs to link the pre-1994 or pre-1997 data with the subsequent data for purposes of seasonal adjustment. The prior adjustment factors used in these runs were the same as those used in the runs that provided the factors for January through June. The prior adjustment factors for the 12 major components are shown in table 1 alongside the seasonal factors.

More detailed information on the seasonal adjustment procedures and the revision of historical data is included in "Revision of Seasonally Adjusted Labor Force Series, *Employment and Earnings*, January 1998."

Data for any of the several hundred seasonally adjusted labor force series and the July-December 1998 seasonal adjustment factors for any of the other independently adjusted series—there are about 170 in addition to the 12 major components—may be obtained from BLS upon request. Requests for data or inquiries concerning seasonal adjustment methods or the availability of machine-readable files of other labor force data should be addressed to the Division of Data Development and Publications, Bureau of Labor Statistics, Washington, D.C. 20212-0001.

<sup>1</sup> The changes were described in articles in the February 1994 and 1997 issues, respectively, of this publication.

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**Table 1. Prior adjustment and July-December 1998 seasonal adjustment factors for the 12 major civilian labor force components**

Procedure and series	Prior adjustment factors	Seasonal adjustment factors					
		July	August	September	October	November	December
<b>Multiplicative adjustment</b> (Divide factor into original value)							
Agricultural employment:							
Men, 20 years and over .....	( <sup>1</sup> )	1.080	1.046	1.042	1.032	.981	.933
Women, 20 years and over .....	.776	1.095	1.079	1.079	1.030	.977	.945
Men, 16 to 19 years .....	.860	1.633	1.404	.945	.778	.747	.730
Women, 16 to 19 years .....	.853	1.581	1.480	1.060	.887	.848	.664
Nonagricultural employment:							
Men, 20 years and over .....	<sup>2</sup> .996	1.006	1.007	1.002	1.007	1.003	1.000
Women, 20 years and over .....	( <sup>1</sup> )	.991	.990	1.002	1.008	1.010	1.008
Unemployment:							
Men, 20 years and over .....	.938	.939	.911	.908	.885	.933	.980
Women, 20 years and over .....	.976	1.073	1.088	1.034	.974	.946	.891
<b>Additive adjustment</b> (Subtract factor from original value)							
Nonagricultural employment:							
Men, 16 to 19 years .....	-68	737	447	-102	-41	-110	-134
Women, 16 to 19 years .....	-96	658	415	-194	-146	-112	-53
Unemployment:							
Men, 16 to 19 years .....	-47	164	-20	-82	-52	-70	-133
Women, 16 to 19 years .....	( <sup>1</sup> )	169	-37	-26	-58	-25	-75

<sup>1</sup> No prior adjustment was done.

<sup>2</sup> For this series, the prior adjusted period was pre-1997 rather than pre-1994.



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

(Numbers in thousands)

Category	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Labor force status													
Civilian noninstitutional population .....	203,000	203,166	203,364	203,570	203,767	203,941	204,098	204,238	204,400	204,547	204,731	204,899	205,085
Civilian labor force .....	136,206	136,294	136,404	136,439	136,406	136,864	137,169	137,493	137,557	137,523	137,242	137,364	137,447
Percent of population .....	67.1	67.1	67.1	67.0	66.9	67.1	67.2	67.3	67.3	67.2	67.0	67.0	67.0
Employed .....	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994	131,383	131,453	131,209
Percent of population .....	63.7	63.8	63.8	63.7	63.8	64.0	64.1	64.2	64.2	64.0	64.2	64.2	64.0
Unemployed .....	6,814	6,633	6,657	6,678	6,496	6,289	6,392	6,409	6,393	6,529	5,859	5,910	6,237
Not in labor force .....	66,794	66,872	66,960	67,131	67,361	67,077	66,929	66,745	66,844	67,024	67,489	67,535	67,639
Unemployment rates													
All workers .....	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7	4.3	4.3	4.5
Men, 20 years and over .....	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.8	3.8	3.9	3.4	3.5	3.7
Women, 20 years and over .....	4.4	4.3	4.3	4.3	4.1	4.0	4.0	4.4	4.3	4.3	4.1	3.9	4.1
Both sexes, 16 to 19 years .....	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0	13.1	14.2	14.6
White .....	4.3	4.2	4.2	4.2	4.1	3.9	3.9	4.0	3.9	4.1	3.6	3.7	4.0
Black .....	10.3	9.6	9.5	9.6	9.6	9.7	9.9	9.3	9.7	9.2	8.9	9.0	8.2
Hispanic origin .....	7.7	7.9	7.3	7.6	7.8	6.9	7.5	6.9	6.8	6.9	6.5	6.8	7.6

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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>	June <sup>P</sup>
Employment													
Total .....	122,534	122,811	122,894	123,280	123,568	123,944	124,289	124,640	124,832	124,914	125,234	125,543	125,748
Total private .....	102,991	103,219	103,285	103,673	103,922	104,282	104,609	104,954	105,112	105,186	105,470	105,717	105,955
Goods-producing industries .....	24,903	24,923	24,972	24,993	25,032	25,099	25,193	25,297	25,314	25,276	25,339	25,301	25,291
Mining .....	593	593	592	594	592	591	592	592	590	587	582	579	578
Construction .....	5,668	5,682	5,699	5,713	5,722	5,750	5,810	5,881	5,902	5,860	5,930	5,917	5,937
Manufacturing .....	18,642	18,648	18,681	18,686	18,718	18,758	18,791	18,824	18,822	18,829	18,827	18,805	18,776
Service-producing industries .....	97,631	97,888	97,922	98,287	98,536	98,845	99,096	99,343	99,518	99,638	99,895	100,242	100,457
Transportation and public utilities .....	6,405	6,411	6,264	6,435	6,453	6,456	6,451	6,473	6,494	6,504	6,513	6,530	6,544
Wholesale trade .....	6,632	6,655	6,671	6,679	6,697	6,711	6,731	6,759	6,769	6,783	6,798	6,813	6,828
Retail trade .....	21,987	21,987	22,043	22,078	22,105	22,206	22,245	22,280	22,283	22,259	22,335	22,414	22,467
Finance, insurance, and real estate .....	7,072	7,095	7,110	7,125	7,151	7,172	7,194	7,213	7,232	7,258	7,289	7,310	7,340
Services .....	35,992	36,148	36,225	36,363	36,484	36,638	36,795	36,932	37,020	37,106	37,196	37,349	37,485
Government .....	19,543	19,592	19,609	19,607	19,646	19,662	19,680	19,686	19,720	19,728	19,764	19,826	19,793
Over-the-month change													
Total .....	209	277	83	386	288	376	345	351	192	82	320	309	205
Total private .....	180	228	66	388	249	360	327	345	158	74	284	247	238
Goods-producing industries .....	20	20	49	21	39	67	94	104	17	-38	63	-38	-10
Mining .....	0	0	-1	2	-2	-1	0	-2	-3	-5	-3	-1	-1
Construction .....	-2	14	17	14	9	28	60	71	21	-42	70	-13	20
Manufacturing .....	22	6	33	5	32	40	33	33	-2	7	-2	-22	-29
Service-producing industries .....	189	257	34	365	249	309	251	247	175	120	257	347	215
Transportation and public utilities .....	6	6	-147	171	18	3	-5	22	21	10	9	17	14
Wholesale trade .....	6	23	16	8	18	14	20	28	10	14	15	15	15
Retail trade .....	35	0	56	35	27	101	39	35	3	-24	76	79	53
Finance, insurance, and real estate .....	8	23	15	15	26	21	22	19	19	26	31	21	30
Services .....	105	156	77	138	121	154	157	137	88	86	90	153	136
Government .....	29	49	17	-2	39	16	18	6	34	8	36	62	-33
Hours of work <sup>1</sup>													
Total private .....	34.5	34.5	34.7	34.6	34.6	34.7	34.7	34.8	34.7	34.6	34.5	34.7	34.6
Manufacturing .....	41.9	41.9	41.9	41.9	42.0	42.1	42.2	42.1	42.0	41.8	41.4	41.8	41.8
Overtime .....	4.7	4.8	4.8	4.7	4.8	4.9	4.9	4.9	4.8	4.8	4.5	4.6	4.6
Indexes of aggregate weekly hours (1982=100) <sup>1</sup>													
Total private .....	140.9	141.3	141.7	142.1	142.6	143.2	143.6	144.6	144.4	143.8	144.0	144.9	144.8
Manufacturing .....	108.8	108.9	109.2	109.2	109.8	110.1	110.6	110.6	110.3	109.7	108.7	109.4	109.1
Earnings <sup>1</sup>													
Average hourly earnings, total private:													
Current dollars .....	\$12.24	\$12.27	\$12.34	\$12.37	\$12.43	\$12.47	\$12.50	\$12.54	\$12.59	\$12.63	\$12.70	\$12.73	\$12.74
Constant (1982) dollars <sup>2</sup> .....	7.54	7.55	7.58	7.58	7.60	7.62	7.63	7.66	7.69	7.72	7.74	7.73	N.A.
Average weekly earnings, total private .....	422.28	423.32	428.20	428.00	430.08	432.71	433.75	436.39	436.87	437.00	438.15	441.73	440.80

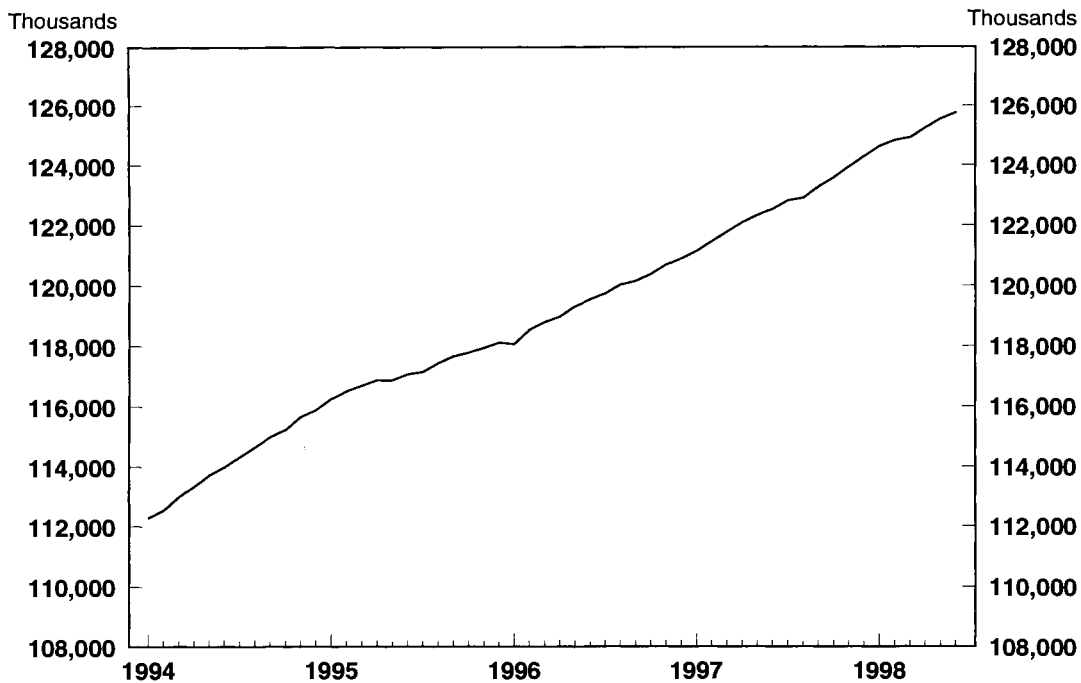
<sup>1</sup> Data relate to private production or nonsupervisory workers.

N.A. = not available.

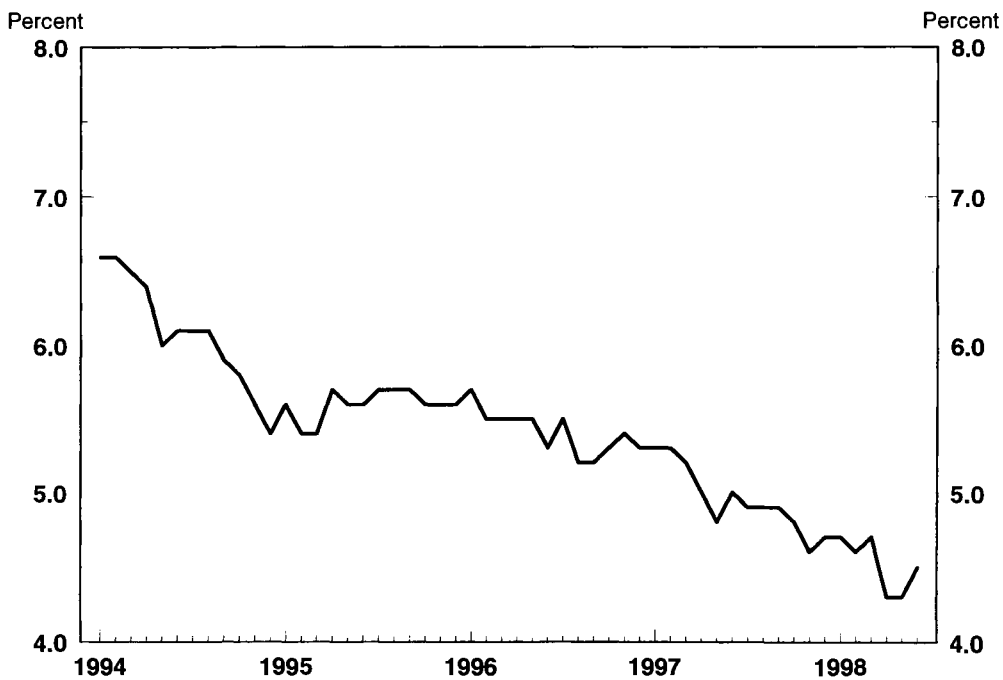
<sup>2</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<sup>P</sup> = preliminary.

**Chart 1. Nonfarm payroll employment, seasonally adjusted, 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.

**HOUSEHOLD DATA  
HISTORICAL**

**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 <sup>1</sup> .....	144,126	87,034	60.4	82,153	57.0	3,484	78,669	4,882	5.6	57,091
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	57.8	3,470	81,594	4,365	4.9	57,667
1974 .....	150,120	91,949	61.3	86,794	57.8	3,515	83,279	5,156	5.6	58,171
1975 .....	153,153	93,775	61.2	85,846	56.1	3,408	82,438	7,929	8.5	59,377
1976 .....	156,150	96,158	61.6	88,752	56.8	3,331	85,421	7,406	7.7	59,991
1977 .....	159,033	99,009	62.3	92,017	57.9	3,283	88,734	6,991	7.1	60,025
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	59.3	3,387	92,661	6,202	6.1	59,659
1979 .....	164,863	104,962	63.7	98,824	59.9	3,347	95,477	6,137	5.8	59,900
1980 .....	167,745	106,940	63.8	99,303	59.2	3,364	95,938	7,637	7.1	60,806
1981 .....	170,130	108,670	63.9	100,397	59.0	3,368	97,030	8,273	7.6	61,460
1982 .....	172,271	110,204	64.0	99,526	57.8	3,401	96,125	10,678	9.7	62,067
1983 .....	174,215	111,550	64.0	100,834	57.9	3,383	97,450	10,717	9.6	62,665
1984 .....	176,383	113,544	64.4	105,005	59.5	3,321	101,685	8,539	7.5	62,839
1985 .....	178,206	115,461	64.8	107,150	60.1	3,179	103,971	8,312	7.2	62,744
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	60.7	3,163	106,434	8,237	7.0	62,752
1987 .....	182,753	119,865	65.6	112,440	61.5	3,208	109,232	7,425	6.2	62,888
1988 .....	184,613	121,669	65.9	114,968	62.3	3,169	111,800	6,701	5.5	62,944
1989 .....	186,393	123,869	66.5	117,342	63.0	3,199	114,142	6,528	5.3	62,523
1990 <sup>1</sup> .....	189,164	125,840	66.5	118,793	62.8	3,223	115,570	7,047	5.6	63,324
1991 .....	190,925	126,346	66.2	117,718	61.7	3,269	114,449	8,628	6.8	64,578
1992 .....	192,805	128,105	66.4	118,492	61.5	3,247	115,245	9,613	7.5	64,700
1993 .....	194,838	129,200	66.3	120,259	61.7	3,115	117,144	8,940	6.9	65,638
1994 <sup>1</sup> .....	196,814	131,056	66.6	123,060	62.5	3,409	119,651	7,996	6.1	65,758
1995 .....	198,584	132,304	66.6	124,900	62.9	3,440	121,460	7,404	5.6	66,280
1996 .....	200,591	133,943	66.8	126,708	63.2	3,443	123,264	7,236	5.4	66,647
1997 <sup>1</sup> .....	203,133	136,297	67.1	129,558	63.8	3,399	126,159	6,739	4.9	66,837
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1997:</b>										
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
<b>1998:</b>										
January <sup>3</sup> .....	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
April .....	204,731	137,242	67.0	131,383	64.2	3,350	128,033	5,859	4.3	67,489
May .....	204,899	137,364	67.0	131,453	64.2	3,335	128,118	5,910	4.3	67,535
June .....	205,085	137,447	67.0	131,209	64.0	3,343	127,867	6,237	4.5	67,639

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

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

<sup>3</sup> Beginning in January 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-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				Unemployed		
				Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
<b>MEN</b>										
1986 <sup>1</sup> .....	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 <sup>1</sup> .....	90,377	69,011	76.4	65,104	72.0	2,546	62,559	3,906	5.7	21,367
1991 .....	91,278	69,168	75.8	64,223	70.4	2,589	61,634	4,946	7.2	22,110
1992 .....	92,270	69,964	75.8	64,440	69.8	2,575	61,866	5,523	7.9	22,306
1993 .....	93,332	70,404	75.4	65,349	70.0	2,478	62,871	5,055	7.2	22,927
1994 <sup>1</sup> .....	94,355	70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,538
1995 .....	95,178	71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,818
1996 .....	96,206	72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,119
1997 <sup>1</sup> .....	97,715	73,261	75.0	69,685	71.3	2,552	67,133	3,577	4.9	24,454
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1997:</b>										
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
<b>1998:</b>										
January <sup>3</sup> .....	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
April .....	98,503	73,799	74.9	70,831	71.9	2,584	68,246	2,969	4.0	24,704
May .....	98,591	73,783	74.8	70,685	71.7	2,492	68,193	3,098	4.2	24,808
June .....	98,691	73,818	74.8	70,570	71.5	2,535	68,035	3,249	4.4	24,873
Annual averages										
<b>WOMEN</b>										
1986 <sup>1</sup> .....	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 <sup>1</sup> .....	98,787	56,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,957
1991 .....	99,646	57,178	57.4	53,496	53.7	680	52,815	3,683	6.4	42,468
1992 .....	100,535	58,141	57.8	54,052	53.8	672	53,380	4,090	7.0	42,394
1993 .....	101,506	58,795	57.9	54,910	54.1	637	54,273	3,885	6.6	42,711
1994 <sup>1</sup> .....	102,460	60,239	58.8	56,610	55.3	855	55,755	3,629	6.0	42,221
1995 .....	103,406	60,944	58.9	57,523	55.6	881	56,642	3,421	5.6	42,462
1996 .....	104,385	61,857	59.3	58,501	56.0	871	57,630	3,356	5.4	42,528
1997 <sup>1</sup> .....	105,418	63,036	59.8	59,873	56.8	847	59,026	3,162	5.0	42,382
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1997:</b>										
June .....	105,351	62,981	59.8	59,806	56.8	806	59,000	3,175	5.0	42,370
July .....	105,433	63,076	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
<b>1998:</b>										
January <sup>3</sup> .....	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
April .....	106,228	63,443	59.7	60,553	57.0	766	59,787	2,890	4.6	42,785
May .....	106,308	63,581	59.8	60,768	57.2	844	59,924	2,813	4.4	42,727
June .....	106,394	63,628	59.8	60,640	57.0	808	59,832	2,989	4.7	42,766

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

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

<sup>3</sup> Beginning in January 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  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> ..	203,000	203,166	203,364	203,570	203,767	203,941	204,098	204,238	204,400	204,547	204,731	204,899	205,085
Civilian labor force .....	136,206	136,294	136,404	136,439	136,406	136,864	137,169	137,493	137,557	137,523	137,242	137,364	137,447
Percent of population .....	67.1	67.1	67.1	67.0	66.9	67.1	67.2	67.3	67.3	67.2	67.0	67.0	67.0
Employed .....	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994	131,383	131,453	131,209
Employment-population ratio .....	63.7	63.8	63.8	63.7	63.8	64.0	64.1	64.2	64.2	64.0	64.2	64.2	64.0
Unemployed .....	6,814	6,633	6,657	6,678	6,496	6,289	6,392	6,409	6,393	6,529	5,859	5,910	6,237
Unemployment rate .....	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7	4.3	4.3	4.5
<b>Men, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	97,649	97,733	97,838	97,946	98,050	98,141	98,225	98,241	98,331	98,405	98,503	98,591	98,691
Civilian labor force .....	73,225	73,218	73,265	73,192	73,311	73,682	73,662	73,852	73,780	73,695	73,799	73,783	73,818
Percent of population .....	75.0	74.9	74.9	74.7	74.8	75.1	75.0	75.2	75.0	74.9	74.9	74.8	74.8
Employed .....	69,586	69,711	69,748	69,656	69,785	70,352	70,195	70,518	70,459	70,297	70,831	70,685	70,570
Employment-population ratio .....	71.3	71.3	71.3	71.1	71.2	71.7	71.5	71.8	71.7	71.4	71.9	71.7	71.5
Agriculture .....	2,583	2,572	2,504	2,552	2,468	2,503	2,497	2,463	2,458	2,356	2,584	2,492	2,535
Nonagricultural industries .....	67,003	67,139	67,244	67,104	67,317	67,849	67,698	68,056	68,001	67,941	68,246	68,193	68,035
Unemployed .....	3,639	3,507	3,517	3,536	3,526	3,330	3,467	3,333	3,320	3,399	2,969	3,098	3,249
Unemployment rate .....	5.0	4.8	4.8	4.8	4.8	4.5	4.7	4.5	4.5	4.6	4.0	4.2	4.4
Not in labor force .....	24,424	24,515	24,573	24,754	24,739	24,459	24,563	24,389	24,551	24,710	24,704	24,808	24,873
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	89,829	89,888	89,982	90,068	90,140	90,251	90,339	90,391	90,476	90,502	90,580	90,622	90,700
Civilian labor force .....	69,157	69,171	69,198	69,136	69,193	69,500	69,561	69,652	69,601	69,451	69,697	69,624	69,545
Percent of population .....	77.0	77.0	76.9	76.8	76.8	77.0	77.0	77.1	76.9	76.7	76.9	76.8	76.7
Employed .....	66,258	66,361	66,386	66,298	66,337	66,824	66,676	67,008	66,990	66,753	67,301	67,190	66,950
Employment-population ratio .....	73.8	73.8	73.8	73.6	73.6	74.0	73.8	74.1	74.0	73.8	74.3	74.1	73.8
Agriculture .....	2,398	2,390	2,311	2,383	2,298	2,323	2,314	2,282	2,264	2,168	2,420	2,324	2,333
Nonagricultural industries .....	63,860	63,971	64,075	63,915	64,039	64,501	64,362	64,726	64,726	64,585	64,881	64,866	64,617
Unemployed .....	2,899	2,810	2,812	2,838	2,856	2,676	2,885	2,644	2,611	2,699	2,396	2,434	2,595
Unemployment rate .....	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.8	3.8	3.9	3.4	3.5	3.7
Not in labor force .....	20,672	20,717	20,784	20,932	20,947	20,751	20,778	20,738	20,875	21,051	20,883	20,998	21,154
<b>Women, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	105,351	105,433	105,527	105,623	105,718	105,799	105,873	105,997	106,070	106,141	106,228	106,308	106,394
Civilian labor force .....	62,981	63,076	63,139	63,247	63,095	63,182	63,507	63,641	63,777	63,827	63,443	63,581	63,628
Percent of population .....	59.8	59.8	59.8	59.9	59.7	59.7	60.0	60.0	60.1	60.1	59.7	59.8	59.8
Employed .....	59,806	59,950	59,999	60,105	60,125	60,223	60,582	60,565	60,704	60,697	60,553	60,768	60,640
Employment-population ratio .....	56.8	56.9	56.9	56.9	56.9	56.9	57.2	57.1	57.2	57.2	57.0	57.2	57.0
Agriculture .....	806	880	875	870	859	881	888	856	876	776	766	844	808
Nonagricultural industries .....	59,000	59,070	59,124	59,235	59,266	59,342	59,694	59,709	59,827	59,921	59,787	59,924	59,832
Unemployed .....	3,175	3,126	3,140	3,142	2,970	2,959	2,925	3,076	3,073	3,130	2,890	2,813	2,989
Unemployment rate .....	5.0	5.0	5.0	5.0	4.7	4.7	4.6	4.8	4.8	4.9	4.6	4.4	4.7
Not in labor force .....	42,370	42,357	42,388	42,376	42,623	42,617	42,366	42,356	42,293	42,314	42,785	42,727	42,766
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	97,834	97,919	98,000	98,082	98,144	98,212	98,300	98,420	98,471	98,534	98,583	98,668	98,735
Civilian labor force .....	59,195	59,232	59,362	59,432	59,338	59,348	59,624	59,652	59,721	59,771	59,486	59,573	59,599
Percent of population .....	60.5	60.5	60.6	60.6	60.5	60.4	60.7	60.6	60.6	60.7	60.3	60.4	60.4
Employed .....	56,575	56,693	56,789	56,883	56,919	56,953	57,255	57,040	57,146	57,186	57,075	57,253	57,172
Employment-population ratio .....	57.8	57.9	57.9	58.0	58.0	58.0	58.2	58.0	58.0	58.0	57.9	58.0	57.9
Agriculture .....	755	831	824	826	814	833	845	811	801	717	705	755	747
Nonagricultural industries .....	55,820	55,862	55,965	56,057	56,105	56,120	56,410	56,229	56,345	56,470	56,370	56,499	56,424
Unemployed .....	2,620	2,539	2,573	2,549	2,419	2,395	2,369	2,612	2,575	2,585	2,411	2,320	2,427
Unemployment rate .....	4.4	4.3	4.3	4.3	4.1	4.0	4.0	4.4	4.3	4.3	4.1	3.9	4.1
Not in labor force .....	38,639	38,687	38,638	38,650	38,806	38,864	38,676	38,768	38,750	38,762	39,097	39,095	39,136
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> ..	15,336	15,359	15,382	15,420	15,483	15,478	15,459	15,427	15,453	15,511	15,569	15,609	15,651
Civilian labor force .....	7,854	7,891	7,844	7,871	7,875	8,016	7,984	8,189	8,235	8,300	8,059	8,166	8,302
Percent of population .....	51.2	51.4	51.0	51.0	50.9	51.8	51.6	53.1	53.3	53.5	51.8	52.3	53.0
Employed .....	6,559	6,607	6,572	6,580	6,654	6,798	6,846	7,035	7,028	7,055	7,007	7,010	7,088
Employment-population ratio .....	42.8	43.0	42.7	42.7	43.0	43.9	44.3	45.6	45.5	45.5	45.0	44.9	45.3
Agriculture .....	236	231	244	213	215	228	226	227	270	247	225	256	262
Nonagricultural industries .....	6,323	6,376	6,328	6,367	6,439	6,570	6,620	6,809	6,758	6,808	6,782	6,754	6,826
Unemployed .....	1,295	1,284	1,272	1,291	1,221	1,218	1,138	1,154	1,207	1,245	1,052	1,156	1,215
Unemployment rate .....	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0	13.1	14.2	14.6
Not in labor force .....	7,482	7,468	7,538	7,549	7,608	7,462	7,475	7,238	7,218	7,210	7,510	7,442	7,349

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

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

adjustment of the various series. Beginning in January 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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> ..	169,897	170,010	170,148	170,290	170,427	170,545	170,649	170,810	170,917	171,016	171,141	171,257	171,387
Civilian labor force .....	114,659	114,622	114,669	114,758	114,784	115,073	115,263	115,253	115,392	115,297	115,057	115,309	115,137
Percent of population .....	67.5	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.4	67.2	67.3	67.2
Employed .....	109,779	109,851	109,832	109,904	110,063	110,604	110,729	110,698	110,842	110,605	110,859	111,025	110,535
Employment-population ratio .....	64.6	64.6	64.6	64.5	64.6	64.9	64.9	64.8	64.9	64.7	64.8	64.8	64.5
Unemployed .....	4,880	4,771	4,837	4,854	4,721	4,469	4,534	4,555	4,550	4,692	4,198	4,284	4,602
Unemployment rate .....	4.3	4.2	4.2	4.2	4.1	3.9	3.9	4.0	3.9	4.1	3.6	3.7	4.0
<b>Men, 20 years and over</b>													
Civilian labor force .....	59,086	59,096	59,118	59,110	59,098	59,355	59,389	59,262	59,372	59,201	59,307	59,366	59,257
Percent of population .....	77.5	77.4	77.4	77.3	77.2	77.5	77.5	77.3	77.4	77.1	77.2	77.2	77.0
Employed .....	56,967	57,011	57,011	56,989	56,966	57,363	57,272	57,336	57,456	57,209	57,562	57,516	57,302
Employment-population ratio .....	74.7	74.7	74.6	74.5	74.4	74.9	74.7	74.8	74.9	74.5	74.9	74.8	74.5
Unemployed .....	2,119	2,085	2,107	2,121	2,132	1,992	2,117	1,926	1,916	1,992	1,745	1,850	1,955
Unemployment rate .....	3.6	3.5	3.6	3.6	3.6	3.4	3.6	3.3	3.2	3.4	2.9	3.1	3.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	48,877	48,790	48,910	48,955	48,976	48,906	49,134	49,077	49,057	49,077	48,955	49,019	48,886
Percent of population .....	60.0	59.9	60.0	60.0	60.0	59.9	60.1	60.0	59.9	59.9	59.7	59.8	59.6
Employed .....	47,077	47,072	47,122	47,165	47,284	47,265	47,474	47,250	47,279	47,276	47,300	47,416	47,197
Employment-population ratio .....	57.8	57.8	57.8	57.8	57.9	57.8	58.1	57.7	57.7	57.7	57.7	57.8	57.5
Unemployed .....	1,800	1,718	1,788	1,790	1,692	1,641	1,660	1,827	1,778	1,801	1,654	1,603	1,688
Unemployment rate .....	3.7	3.5	3.7	3.7	3.5	3.4	3.4	3.7	3.6	3.7	3.4	3.3	3.5
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,696	6,736	6,641	6,693	6,710	6,812	6,740	6,914	6,963	7,019	6,795	6,924	6,994
Percent of population .....	55.0	55.3	54.4	54.8	54.9	55.6	55.0	56.3	56.6	56.9	54.9	55.8	56.2
Employed .....	5,735	5,768	5,699	5,750	5,813	5,976	5,983	6,113	6,107	6,120	5,996	6,093	6,036
Employment-population ratio .....	47.1	47.3	46.7	47.0	47.5	48.8	48.8	49.8	49.6	49.6	48.5	49.1	48.5
Unemployed .....	961	968	942	943	897	836	757	802	857	899	799	831	958
Unemployment rate .....	14.4	14.4	14.2	14.1	13.4	12.3	11.2	11.6	12.3	12.8	11.8	12.0	13.7
Men .....	15.8	15.0	15.1	14.4	14.3	12.8	11.3	14.2	14.7	14.9	12.7	14.0	14.7
Women .....	12.8	13.7	13.1	13.7	12.3	11.6	11.1	8.8	9.8	10.6	10.7	9.8	12.6
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> ..	23,978	24,006	24,043	24,081	24,117	24,149	24,180	24,196	24,229	24,257	24,289	24,317	24,349
Civilian labor force .....	15,426	15,524	15,728	15,691	15,555	15,638	15,709	15,788	15,885	15,971	15,907	15,756	16,013
Percent of population .....	64.3	64.7	65.4	65.2	64.5	64.8	65.0	65.3	65.6	65.8	65.5	64.8	65.8
Employed .....	13,836	14,040	14,237	14,180	14,067	14,128	14,149	14,316	14,349	14,498	14,499	14,344	14,700
Employment-population ratio .....	57.7	58.5	59.2	58.9	58.3	58.5	58.5	59.2	59.2	59.8	59.7	59.0	60.4
Unemployed .....	1,590	1,484	1,491	1,511	1,488	1,510	1,560	1,472	1,535	1,473	1,408	1,412	1,313
Unemployment rate .....	10.3	9.6	9.5	9.6	9.6	9.7	9.9	9.3	9.7	9.2	8.9	9.0	8.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,925	6,946	7,035	6,978	6,945	6,965	6,957	7,012	6,974	7,044	7,097	7,009	7,088
Percent of population .....	72.4	72.5	73.3	72.6	72.3	72.1	72.0	72.6	72.1	72.8	73.2	72.2	73.0
Employed .....	6,305	6,371	6,480	6,424	6,367	6,420	6,356	6,456	6,428	6,511	6,573	6,536	6,599
Employment-population ratio .....	65.9	66.5	67.5	66.8	66.3	66.5	65.8	66.9	66.5	67.3	67.8	67.4	67.9
Unemployed .....	620	575	555	554	578	545	601	556	546	533	524	473	489
Unemployment rate .....	9.0	8.3	7.9	7.9	8.3	7.8	8.6	7.9	7.8	7.6	7.4	6.7	6.9
<b>Women, 20 years and over</b>													
Civilian labor force .....	7,617	7,691	7,771	7,790	7,680	7,731	7,791	7,799	7,952	7,935	7,822	7,787	7,866
Percent of population .....	63.5	64.1	64.6	64.6	63.6	63.9	64.4	64.3	65.5	65.3	64.3	64.0	64.5
Employed .....	6,932	7,048	7,115	7,135	7,044	7,080	7,163	7,178	7,265	7,284	7,182	7,130	7,256
Employment-population ratio .....	57.8	58.7	59.1	59.2	58.3	58.6	59.2	59.2	59.8	60.0	59.0	58.6	59.5
Unemployed .....	685	643	656	655	636	651	628	621	687	651	640	657	609
Unemployment rate .....	9.0	8.4	8.4	8.4	8.3	8.4	8.1	8.0	8.6	8.2	8.2	8.4	7.7

See footnotes at end of table.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	884	887	922	923	930	942	961	977	959	992	988	960	1,060
Percent of population .....	36.5	36.7	38.3	38.3	38.2	39.2	39.8	40.5	39.6	40.9	40.6	39.4	43.4
Employed .....	599	621	642	621	656	628	630	683	656	703	744	678	846
Employment-population ratio .....	24.7	25.7	26.6	25.8	26.9	26.1	26.1	28.3	27.1	29.0	30.6	27.8	34.6
Unemployed .....	285	266	280	302	274	314	331	294	302	289	244	283	214
Unemployment rate .....	32.2	30.0	30.4	32.7	29.5	33.3	34.4	30.1	31.5	29.1	24.7	29.4	20.2
Men .....	39.1	34.6	33.9	37.6	30.1	35.0	36.2	31.8	34.7	27.8	23.9	30.2	20.4
Women .....	25.5	25.9	27.2	28.6	28.8	31.9	33.1	28.5	28.4	30.3	25.3	28.8	20.1
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> ..	20,293	20,351	20,407	20,464	20,519	20,575	20,629	20,741	20,798	20,851	20,915	20,975	21,036
Civilian labor force .....	13,814	13,861	13,886	13,861	13,896	13,880	13,973	13,954	14,149	14,298	14,369	14,458	14,420
Percent of population .....	68.1	68.1	68.0	67.7	67.7	67.5	67.7	67.3	68.0	68.6	68.7	68.9	68.5
Employed .....	12,751	12,772	12,867	12,807	12,806	12,921	12,921	12,988	13,181	13,305	13,434	13,480	13,328
Employment-population ratio .....	62.8	62.8	63.1	62.6	62.4	62.8	62.6	62.6	63.4	63.8	64.2	64.3	63.4
Unemployed .....	1,063	1,089	1,019	1,054	1,090	959	1,052	966	968	993	935	978	1,092
Unemployment rate .....	7.7	7.9	7.3	7.6	7.8	6.9	7.5	6.9	6.8	6.9	6.5	6.8	7.6

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

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

are included in both the white and black population groups. Beginning in January 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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Less than a high school diploma</b>													
Civilian noninstitutional population <sup>1</sup> .....	29,924	29,288	29,314	29,350	29,046	29,505	29,566	29,981	29,228	29,251	29,638	29,931	30,064
Civilian labor force .....	12,608	12,554	12,534	12,555	12,468	12,511	12,555	12,682	12,555	12,392	12,664	12,690	12,888
Percent of population .....	42.1	42.9	42.8	42.8	42.9	42.4	42.5	42.3	43.0	42.4	42.7	42.4	42.9
Employed .....	11,575	11,579	11,573	11,548	11,502	11,575	11,606	11,771	11,676	11,500	11,773	11,839	11,963
Employment-population ratio .....	38.7	39.5	39.5	39.3	39.6	39.2	39.3	39.3	39.9	39.3	39.7	39.6	39.8
Unemployed .....	1,033	975	961	1,007	966	936	949	911	879	891	891	851	925
Unemployment rate .....	8.2	7.8	7.7	8.0	7.7	7.5	7.6	7.2	7.0	7.2	7.0	6.7	7.2
<b>High school graduates, no college<sup>2</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	57,643	57,581	57,607	57,483	57,459	57,310	57,631	57,606	57,418	57,885	57,484	57,706	57,446
Civilian labor force .....	37,826	37,987	37,842	37,585	37,759	37,641	37,827	37,787	37,807	37,931	37,340	37,496	37,096
Percent of population .....	65.6	66.0	65.7	65.4	65.7	65.7	65.6	65.6	65.8	65.5	65.0	65.0	64.6
Employed .....	36,174	36,382	36,225	36,003	36,179	36,193	36,287	36,303	36,302	36,331	35,885	36,114	35,602
Employment-population ratio .....	62.8	63.2	62.9	62.6	63.0	63.2	63.0	63.0	63.2	62.8	62.4	62.6	62.0
Unemployed .....	1,652	1,605	1,617	1,582	1,580	1,448	1,540	1,485	1,505	1,600	1,454	1,383	1,494
Unemployment rate .....	4.4	4.2	4.3	4.2	4.2	3.8	4.1	3.9	4.0	4.2	3.9	3.7	4.0
<b>Less than a bachelor's degree<sup>3</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	41,747	42,322	42,401	42,075	42,613	42,417	42,085	41,718	42,527	42,313	42,303	42,024	41,880
Civilian labor force .....	31,333	31,227	31,445	31,401	31,328	31,544	31,506	31,440	31,505	31,515	31,517	31,408	31,227
Percent of population .....	75.1	73.8	74.2	74.6	73.5	74.4	74.9	75.4	74.1	74.5	74.5	74.7	74.6
Employed .....	30,316	30,239	30,438	30,382	30,410	30,574	30,484	30,429	30,538	30,471	30,669	30,437	30,333
Employment-population ratio .....	72.6	71.4	71.8	72.2	71.4	72.1	72.4	72.9	71.8	72.0	72.5	72.4	72.4
Unemployed .....	1,017	988	1,007	1,019	918	970	1,022	1,011	967	1,043	848	971	894
Unemployment rate .....	3.2	3.2	3.2	3.2	2.9	3.1	3.2	3.2	3.1	3.3	2.7	3.1	2.9
<b>College graduates</b>													
Civilian noninstitutional population <sup>1</sup> .....	40,955	41,171	41,232	41,769	41,696	41,739	41,822	41,974	42,238	42,085	42,197	42,090	42,464
Civilian labor force .....	33,036	33,159	33,290	33,577	33,510	33,505	33,678	33,685	33,672	33,777	33,989	33,920	34,274
Percent of population .....	80.7	80.5	80.7	80.4	80.4	80.3	80.5	80.3	79.7	80.3	80.5	80.6	80.7
Employed .....	32,356	32,474	32,592	32,891	32,868	32,916	33,083	33,040	33,029	33,145	33,419	33,364	33,674
Employment-population ratio .....	79.0	78.9	79.0	78.7	78.8	78.9	79.1	78.7	78.2	78.8	79.2	79.3	79.3
Unemployed .....	680	685	698	686	642	589	595	645	643	632	571	556	600
Unemployment rate .....	2.1	2.1	2.1	2.0	1.9	1.8	1.8	1.9	1.9	1.9	1.7	1.6	1.7

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

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



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Full- and part-time status, sex, and age	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>EMPLOYED</b>													
Full-time workers .....	106,343	106,548	106,672	106,926	106,824	107,491	107,452	107,777	107,788	107,696	108,107	108,155	107,607
Men, 16 years and over .....	62,245	62,332	62,376	62,487	62,439	63,014	62,829	62,909	62,810	62,740	63,092	63,098	63,098
Men, 20 years and over .....	60,976	61,038	61,101	61,197	61,142	61,672	61,505	61,652	61,534	61,434	61,810	61,742	61,680
Women, 16 years and over .....	44,146	44,304	44,375	44,436	44,369	44,452	44,589	44,741	44,869	44,855	44,957	44,983	44,599
Women, 20 years and over .....	43,281	43,364	43,468	43,518	43,479	43,546	43,691	43,856	43,898	43,810	43,997	44,017	43,694
Both sexes, 16 to 19 years .....	2,086	2,146	2,103	2,211	2,203	2,273	2,256	2,268	2,356	2,452	2,300	2,396	2,233
Part-time workers .....	22,987	23,016	23,061	23,004	23,163	23,244	23,422	23,373	23,249	23,428	23,201	23,222	23,494
Men, 16 years and over .....	7,323	7,375	7,436	7,348	7,401	7,432	7,459	7,469	7,547	7,550	7,641	7,424	7,466
Men, 20 years and over .....	5,260	5,323	5,355	5,278	5,255	5,226	5,257	5,273	5,319	5,305	5,404	5,296	5,236
Women, 16 years and over .....	15,689	15,628	15,623	15,652	15,766	15,802	16,014	15,833	15,704	15,901	15,580	15,770	16,045
Women, 20 years and over .....	13,280	13,290	13,291	13,366	13,432	13,447	13,559	13,258	13,175	13,382	13,099	13,232	13,468
Both sexes, 16 to 19 years .....	4,447	4,403	4,415	4,360	4,476	4,571	4,606	4,842	4,755	4,742	4,698	4,694	4,790
<b>UNEMPLOYED</b>													
Looking for full-time work .....	5,480	5,329	5,305	5,309	5,215	4,987	5,203	5,075	5,070	5,126	4,690	4,784	4,905
Men, 16 years and over .....	3,164	2,961	2,958	2,984	2,991	2,834	2,994	2,645	2,610	2,725	2,461	2,662	2,769
Men, 20 years and over .....	2,669	2,585	2,568	2,571	2,600	2,466	2,689	2,438	2,386	2,462	2,167	2,250	2,409
Women, 16 years and over .....	2,395	2,344	2,369	2,361	2,254	2,205	2,220	2,296	2,369	2,322	2,252	2,160	2,224
Women, 20 years and over .....	2,125	2,102	2,116	2,069	1,979	1,905	1,914	2,102	2,137	2,050	1,993	1,916	1,920
Both sexes, 16 to 19 years .....	686	642	621	669	636	616	600	536	547	613	530	617	576
Looking for part-time work .....	1,296	1,305	1,346	1,328	1,288	1,329	1,238	1,339	1,279	1,409	1,170	1,157	1,300
Men, 16 years and over .....	542	558	577	561	570	551	502	549	583	582	504	494	566
Men, 20 years and over .....	227	219	233	245	263	226	220	206	220	234	228	180	182
Women, 16 years and over .....	772	766	752	751	705	779	753	760	708	806	686	679	757
Women, 20 years and over .....	474	445	459	458	440	499	462	505	443	536	426	415	490
Both sexes, 16 to 19 years .....	595	641	654	625	585	604	556	627	615	640	516	562	628
<b>UNEMPLOYMENT RATES<sup>1</sup></b>													
Full-time workers .....	4.9	4.8	4.7	4.7	4.7	4.4	4.6	4.5	4.5	4.5	4.2	4.2	4.4
Men, 16 years and over .....	4.8	4.5	4.5	4.6	4.6	4.3	4.5	4.0	4.0	4.2	3.8	4.0	4.2
Men, 20 years and over .....	4.2	4.1	4.0	4.0	4.1	3.8	4.2	3.8	3.7	3.9	3.4	3.5	3.8
Women, 16 years and over .....	5.1	5.0	5.1	5.0	4.8	4.7	4.7	4.9	5.0	4.9	4.8	4.6	4.8
Women, 20 years and over .....	4.7	4.6	4.6	4.5	4.4	4.2	4.2	4.6	4.6	4.5	4.3	4.2	4.2
Both sexes, 16 to 19 years .....	24.7	23.0	22.8	23.2	22.4	21.3	21.0	19.1	18.8	20.0	18.7	20.5	20.5
Part-time workers .....	5.3	5.4	5.5	5.5	5.3	5.4	5.0	5.4	5.2	5.7	4.8	4.7	5.2
Men, 16 years and over .....	6.9	7.0	7.2	7.1	7.2	6.9	6.3	6.8	7.2	7.2	6.2	6.2	7.0
Men, 20 years and over .....	4.1	4.0	4.2	4.4	4.8	4.1	4.0	3.8	4.0	4.2	4.0	3.3	3.4
Women, 16 years and over .....	4.7	4.7	4.6	4.6	4.3	4.7	4.5	4.6	4.3	4.8	4.2	4.1	4.5
Women, 20 years and over .....	3.4	3.2	3.3	3.3	3.2	3.6	3.3	3.7	3.3	3.8	3.2	3.0	3.5
Both sexes, 16 to 19 years .....	11.8	12.7	12.9	12.5	11.6	11.7	10.8	11.5	11.5	11.9	9.9	10.7	11.6

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

NOTE: Beginning in January 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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>MARITAL STATUS</b>													
Total .....	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994	131,383	131,453	131,209
Married men, spouse present .....	42,476	42,582	42,680	42,648	42,771	42,967	42,952	42,977	42,915	42,779	42,865	42,471	42,539
Married women, spouse present .....	32,654	32,813	32,861	32,846	32,978	32,840	32,975	32,793	32,821	32,872	32,973	32,805	32,805
Women who maintain families .....	7,820	7,875	7,892	7,876	7,865	7,726	7,822	7,784	7,884	7,776	7,813	7,848	7,922
<b>OCCUPATION</b>													
Managerial and professional specialty .....	37,549	37,598	37,765	37,860	37,844	37,986	38,205	38,099	38,164	38,454	38,643	38,641	38,732
Technical, sales, and administrative support .....	38,188	38,240	38,334	38,535	38,537	38,540	38,562	38,382	38,491	38,693	38,585	38,401	38,567
Service occupations .....	17,450	17,550	17,713	17,746	17,723	17,827	17,890	18,162	17,950	17,752	17,478	17,749	17,873
Precision production, craft, and repair .....	14,282	14,234	14,038	13,859	14,051	14,191	14,299	14,285	14,456	14,656	14,673	14,853	14,509
Operators, fabricators, and laborers .....	18,540	18,476	18,452	18,302	18,385	18,467	18,394	18,622	18,632	18,179	18,447	18,322	18,120
Farming, forestry, and fishing .....	3,502	3,531	3,442	3,483	3,438	3,512	3,472	3,355	3,436	3,269	3,495	3,479	3,503
<b>CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,912	1,897	1,853	1,889	1,815	1,855	1,844	1,949	1,928	1,866	1,987	1,871	1,841
Self-employed workers .....	1,429	1,478	1,477	1,495	1,475	1,493	1,496	1,348	1,324	1,242	1,324	1,395	1,470
Unpaid family workers .....	47	52	50	44	55	49	54	44	41	32	28	51	48
Nonagricultural industries:													
Wage and salary workers .....	116,642	117,146	117,372	117,303	117,635	118,083	118,403	118,529	118,961	119,131	118,774	119,013	118,654
Private industries .....	98,529	98,843	99,169	99,194	99,560	99,913	100,155	100,108	100,583	101,058	100,571	100,979	100,157
Private households .....	888	911	935	877	877	910	946	985	1,035	1,022	1,014	1,015	961
Other industries .....	97,641	97,932	98,234	98,317	98,683	99,003	99,209	99,123	99,547	100,037	99,557	99,964	99,195
Government .....	18,113	18,303	18,203	18,109	18,075	18,170	18,248	18,421	18,378	18,072	18,202	18,034	18,497
Self-employed workers .....	9,089	8,927	8,955	8,949	8,930	9,004	8,886	8,964	8,761	8,784	9,069	9,023	8,969
Unpaid family workers .....	128	129	126	83	92	97	99	131	117	102	124	97	100
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,049	4,019	3,988	3,928	3,913	3,890	3,855	4,082	3,882	3,902	3,735	3,772	3,837
Slack work or business conditions .....	2,347	2,236	2,164	2,187	2,211	2,221	2,230	2,282	2,123	2,188	2,074	2,104	2,230
Could only find part-time work .....	1,373	1,489	1,487	1,455	1,406	1,386	1,323	1,400	1,455	1,445	1,300	1,344	1,246
Part time for noneconomic reasons .....	18,205	18,055	18,096	17,901	18,113	18,083	18,386	18,515	18,407	18,448	18,084	18,662	18,665
Nonagricultural industries:													
Part time for economic reasons .....	3,819	3,858	3,832	3,739	3,732	3,689	3,654	3,865	3,743	3,726	3,608	3,630	3,676
Slack work or business conditions .....	2,202	2,121	2,066	2,067	2,103	2,100	2,113	2,162	2,025	2,057	1,998	2,024	2,151
Could only find part-time work .....	1,320	1,462	1,455	1,417	1,378	1,346	1,291	1,373	1,433	1,416	1,276	1,315	1,199
Part time for noneconomic reasons .....	17,577	17,452	17,521	17,381	17,537	17,486	17,791	17,898	17,786	17,929	17,470	18,067	18,019

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

holidays, illness, and bad weather.

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	129,392	129,661	129,747	129,761	129,910	130,575	130,777	131,083	131,163	130,994	131,383	131,453	131,209
16 to 24 years .....	18,919	19,017	18,855	19,013	19,002	19,257	19,304	19,574	19,587	19,563	19,691	19,597	19,587
16 to 19 years .....	6,559	6,607	6,572	6,580	6,654	6,798	6,846	7,035	7,028	7,055	7,007	7,010	7,088
16 to 17 years .....	2,628	2,622	2,567	2,640	2,680	2,680	2,676	2,843	2,803	2,840	2,823	2,741	2,685
18 to 19 years .....	3,943	3,982	3,976	3,936	3,976	4,118	4,176	4,193	4,224	4,215	4,173	4,287	4,421
20 to 24 years .....	12,360	12,410	12,283	12,433	12,348	12,459	12,458	12,539	12,560	12,508	12,684	12,587	12,499
25 years and over .....	110,487	110,610	110,858	110,831	110,964	111,251	111,445	111,463	111,505	111,398	111,755	111,855	111,635
25 to 54 years .....	94,540	94,717	94,910	94,772	94,707	94,859	94,941	95,125	95,099	95,055	95,148	95,217	95,124
55 years and over .....	15,892	15,934	16,063	16,104	16,220	16,417	16,523	16,367	16,401	16,388	16,475	16,562	16,442
Men, 16 years and over .....	69,586	69,711	69,748	69,656	69,785	70,352	70,195	70,518	70,459	70,297	70,831	70,685	70,570
16 to 24 years .....	9,904	9,929	9,895	9,880	9,889	10,070	10,010	10,178	10,132	10,167	10,263	10,126	10,236
16 to 19 years .....	3,328	3,350	3,362	3,358	3,448	3,528	3,519	3,510	3,470	3,544	3,529	3,495	3,620
16 to 17 years .....	1,338	1,331	1,339	1,360	1,398	1,401	1,377	1,472	1,397	1,452	1,444	1,375	1,368
18 to 19 years .....	2,001	2,007	1,996	1,980	2,075	2,128	2,151	2,041	2,080	2,093	2,088	2,121	2,263
20 to 24 years .....	6,576	6,579	6,533	6,522	6,441	6,542	6,491	6,668	6,662	6,622	6,733	6,631	6,616
25 years and over .....	59,671	59,781	59,850	59,877	59,952	60,234	60,168	60,288	60,315	60,117	60,520	60,543	60,346
25 to 54 years .....	50,772	50,858	50,906	50,871	50,867	51,125	51,034	51,235	51,201	51,144	51,357	51,315	51,161
55 years and over .....	8,858	8,932	9,007	9,009	9,060	9,152	9,151	9,048	9,087	8,991	9,114	9,226	9,122
Women, 16 years and over .....	59,806	59,950	59,999	60,105	60,125	60,223	60,582	60,565	60,704	60,697	60,553	60,768	60,640
16 to 24 years .....	9,015	9,088	8,960	9,133	9,113	9,187	9,294	9,396	9,455	9,397	9,429	9,471	9,351
16 to 19 years .....	3,231	3,257	3,210	3,222	3,206	3,270	3,327	3,525	3,558	3,511	3,478	3,515	3,468
16 to 17 years .....	1,290	1,291	1,228	1,280	1,282	1,279	1,299	1,371	1,406	1,388	1,380	1,366	1,317
18 to 19 years .....	1,942	1,975	1,980	1,956	1,901	1,990	2,025	2,152	2,144	2,122	2,086	2,166	2,158
20 to 24 years .....	5,784	5,831	5,750	5,911	5,907	5,917	5,967	5,871	5,898	5,886	5,951	5,956	5,883
25 years and over .....	50,816	50,829	51,008	50,954	51,012	51,017	51,277	51,175	51,190	51,281	51,235	51,311	51,289
25 to 54 years .....	43,768	43,859	44,004	43,901	43,840	43,734	43,907	43,890	43,898	43,910	43,791	43,902	43,963
55 years and over .....	7,034	7,002	7,056	7,095	7,160	7,265	7,372	7,319	7,314	7,397	7,361	7,336	7,320

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

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

(In thousands)

Age and sex	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	6,814	6,633	6,657	6,678	6,496	6,289	6,392	6,409	6,393	6,529	5,859	5,910	6,237
16 to 24 years .....	2,426	2,350	2,393	2,408	2,375	2,360	2,300	2,371	2,378	2,335	2,063	2,184	2,318
16 to 19 years .....	1,295	1,284	1,272	1,291	1,221	1,218	1,138	1,154	1,207	1,245	1,052	1,156	1,215
16 to 17 years .....	550	571	559	631	568	574	576	596	638	579	506	514	597
18 to 19 years .....	743	729	722	669	654	646	555	549	538	670	546	650	618
20 to 24 years .....	1,131	1,066	1,121	1,117	1,154	1,142	1,162	1,218	1,171	1,090	1,011	1,028	1,103
25 years and over .....	4,371	4,245	4,296	4,304	4,122	3,923	4,149	4,019	4,018	4,184	3,751	3,758	3,901
25 to 54 years .....	3,867	3,750	3,778	3,791	3,636	3,461	3,659	3,588	3,571	3,712	3,293	3,372	3,480
55 years and over .....	509	488	504	512	472	472	480	459	450	486	426	407	427
Men, 16 years and over .....	3,639	3,507	3,517	3,536	3,526	3,330	3,467	3,333	3,320	3,399	2,969	3,098	3,249
16 to 24 years .....	1,337	1,293	1,334	1,347	1,350	1,325	1,250	1,278	1,348	1,282	1,105	1,250	1,246
16 to 19 years .....	740	697	705	698	670	654	582	689	709	700	573	664	653
16 to 17 years .....	328	309	295	314	311	312	310	330	371	330	253	300	363
18 to 19 years .....	421	385	417	381	360	349	268	357	313	374	320	370	303
20 to 24 years .....	597	596	629	649	680	671	668	588	639	582	532	586	592
25 years and over .....	2,292	2,201	2,220	2,182	2,176	2,005	2,213	2,050	1,975	2,102	1,854	1,875	1,991
25 to 54 years .....	2,007	1,928	1,921	1,901	1,887	1,727	1,896	1,785	1,718	1,828	1,602	1,639	1,762
55 years and over .....	285	274	284	276	277	278	325	289	268	285	244	225	231
Women, 16 years and over .....	3,175	3,126	3,140	3,142	2,970	2,959	2,925	3,076	3,073	3,130	2,890	2,813	2,989
16 to 24 years .....	1,089	1,057	1,059	1,061	1,025	1,035	1,050	1,094	1,030	1,053	958	935	1,073
16 to 19 years .....	555	587	567	593	551	564	556	464	498	545	479	493	562
16 to 17 years .....	222	262	264	317	257	262	266	266	267	249	253	214	235
18 to 19 years .....	322	344	305	288	294	297	287	191	225	296	226	280	315
20 to 24 years .....	534	470	492	468	474	471	494	629	532	508	479	442	511
25 years and over .....	2,079	2,044	2,076	2,122	1,946	1,918	1,936	1,969	2,043	2,082	1,897	1,883	1,910
25 to 54 years .....	1,860	1,822	1,857	1,890	1,749	1,734	1,763	1,802	1,853	1,884	1,692	1,733	1,718
55 years and over .....	224	214	220	236	195	194	155	170	181	201	182	182	196

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

(Percent)

Age and sex	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7	4.3	4.3	4.5
16 to 24 years .....	11.4	11.0	11.3	11.2	11.1	10.9	10.6	10.8	10.8	10.7	9.5	10.0	10.6
16 to 19 years .....	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0	13.1	14.2	14.6
16 to 17 years .....	17.3	17.9	17.9	19.3	17.5	17.6	17.7	17.3	18.5	16.9	15.2	15.8	18.2
18 to 19 years .....	15.9	15.5	15.4	14.5	14.1	13.6	11.7	11.6	11.3	13.7	11.6	13.2	12.3
20 to 24 years .....	8.4	7.9	8.4	8.2	8.5	8.4	8.5	8.9	8.5	8.0	7.4	7.6	8.1
25 years and over .....	3.8	3.7	3.7	3.7	3.6	3.4	3.6	3.5	3.5	3.6	3.2	3.3	3.4
25 to 54 years .....	3.9	3.8	3.8	3.8	3.7	3.5	3.7	3.6	3.6	3.8	3.3	3.4	3.5
55 years and over .....	3.1	3.0	3.0	3.1	2.8	2.8	2.8	2.7	2.7	2.9	2.5	2.4	2.5
Men, 16 years and over .....	5.0	4.8	4.8	4.8	4.8	4.5	4.7	4.5	4.5	4.6	4.0	4.2	4.4
16 to 24 years .....	11.9	11.5	11.9	12.0	12.0	11.6	11.1	11.2	11.7	11.2	9.7	11.0	10.8
16 to 19 years .....	18.2	17.2	17.3	17.2	16.3	15.6	14.2	16.4	17.0	16.5	14.0	16.0	15.3
16 to 17 years .....	19.7	18.8	18.1	18.8	18.2	18.2	18.4	18.3	21.0	18.5	14.9	17.9	21.0
18 to 19 years .....	17.4	16.1	17.3	16.1	14.8	14.1	11.1	14.9	13.1	15.2	13.3	14.8	11.8
20 to 24 years .....	8.3	8.3	8.8	9.1	9.5	9.3	9.3	8.1	8.7	8.1	7.3	8.1	8.2
25 years and over .....	3.7	3.6	3.6	3.5	3.5	3.2	3.5	3.3	3.2	3.4	3.0	3.0	3.2
25 to 54 years .....	3.8	3.7	3.6	3.6	3.6	3.3	3.6	3.4	3.2	3.5	3.0	3.1	3.3
55 years and over .....	3.1	3.0	3.1	3.0	3.0	2.9	3.4	3.1	2.9	3.1	2.6	2.4	2.5
Women, 16 years and over .....	5.0	5.0	5.0	5.0	4.7	4.7	4.6	4.8	4.8	4.9	4.6	4.4	4.7
16 to 24 years .....	10.8	10.4	10.6	10.4	10.1	10.1	10.2	10.4	9.8	10.1	9.2	9.0	10.3
16 to 19 years .....	14.7	15.3	15.0	15.5	14.7	14.7	14.3	11.6	12.3	13.4	12.1	12.3	13.9
16 to 17 years .....	14.7	16.9	17.7	19.8	16.7	17.0	17.0	16.3	16.0	15.2	15.5	13.5	15.1
18 to 19 years .....	14.2	14.8	13.3	12.8	13.4	13.0	12.4	8.2	9.5	12.2	9.8	11.4	12.7
20 to 24 years .....	8.5	7.5	7.9	7.3	7.4	7.4	7.6	9.7	8.3	7.9	7.5	6.9	8.0
25 years and over .....	3.9	3.9	3.9	4.0	3.7	3.6	3.6	3.7	3.8	3.9	3.6	3.5	3.6
25 to 54 years .....	4.1	4.0	4.0	4.1	3.8	3.8	3.9	3.9	4.1	4.1	3.7	3.8	3.8
55 years and over .....	3.1	3.0	3.0	3.2	2.7	2.6	2.1	2.3	2.4	2.6	2.4	2.4	2.6

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

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

(Percent)

Category	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTIC</b>													
Total .....	5.0	4.9	4.9	4.9	4.8	4.6	4.7	4.7	4.6	4.7	4.3	4.3	4.5
Men, 20 years and over .....	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.8	3.8	3.9	3.4	3.5	3.7
Women, 20 years and over .....	4.4	4.3	4.3	4.3	4.1	4.0	4.0	4.4	4.3	4.3	4.1	3.9	4.1
Both sexes, 16 to 19 years .....	16.5	16.3	16.2	16.4	15.5	15.2	14.3	14.1	14.7	15.0	13.1	14.2	14.6
White .....	4.3	4.2	4.2	4.2	4.1	3.9	3.9	4.0	3.9	4.1	3.6	3.7	4.0
Black and other .....	8.9	8.4	8.4	8.4	8.2	8.4	8.6	8.3	8.3	8.2	7.5	7.6	7.3
Black .....	10.3	9.6	9.5	9.6	9.6	9.7	9.9	9.3	9.7	9.2	8.9	9.0	8.2
Hispanic origin .....	7.7	7.9	7.3	7.6	7.8	6.9	7.5	6.9	6.8	6.9	6.5	6.8	7.6
Married men, spouse present .....	2.7	2.6	2.6	2.6	2.6	2.4	2.6	2.6	2.5	2.5	2.2	2.4	2.2
Married women, spouse present .....	3.2	3.1	3.0	3.1	2.8	2.8	2.8	3.1	3.1	3.3	2.8	2.8	2.9
Women who maintain families .....	8.0	7.6	8.0	7.8	7.8	8.1	7.7	7.6	7.6	7.6	7.6	7.7	6.9
<b>OCCUPATION<sup>1</sup></b>													
Managerial and professional specialty .....	2.0	2.0	2.0	2.0	1.8	1.7	1.9	2.0	2.0	1.8	1.9	1.7	1.7
Technical, sales, and administrative support .....	4.2	4.1	4.1	4.0	3.9	3.9	4.0	4.2	4.0	4.1	3.7	3.9	3.9
Precision production, craft, and repair .....	4.8	4.9	4.7	4.8	5.3	4.5	4.7	4.6	4.1	4.5	3.7	4.4	4.3
Operators, fabricators, and laborers .....	7.4	7.4	7.6	7.8	7.1	7.1	7.0	5.9	6.5	6.9	6.1	6.5	6.9
Farming, forestry, and fishing .....	7.9	6.5	7.2	6.7	7.3	6.6	7.2	6.8	6.3	7.1	5.8	6.4	6.5
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers ...	5.0	4.9	5.0	5.0	4.8	4.7	4.8	4.7	4.7	4.7	4.3	4.5	4.7
Goods-producing industries .....	5.2	5.3	5.3	5.2	5.0	4.6	5.0	4.8	4.7	5.0	4.4	4.6	4.7
Mining .....	2.8	4.1	4.9	3.4	4.5	3.3	3.3	4.0	2.6	3.7	2.3	1.3	3.9
Construction .....	8.8	8.7	9.0	8.7	8.7	7.9	8.9	7.9	7.8	8.6	6.3	8.0	8.0
Manufacturing .....	4.2	4.3	4.1	4.1	3.8	3.6	3.8	3.9	3.7	3.8	3.9	3.6	3.6
Durable goods .....	3.6	3.5	3.5	3.3	3.1	3.1	3.1	3.4	2.9	3.6	3.5	3.0	2.9
Nondurable goods .....	5.0	5.4	5.0	5.3	4.8	4.4	4.9	4.5	5.0	4.2	4.4	4.6	4.6
Service-producing industries .....	4.9	4.8	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.6	4.3	4.5	4.7
Transportation and public utilities .....	3.0	3.4	3.7	3.8	3.3	3.1	3.3	3.8	3.2	3.3	3.1	3.0	3.6
Wholesale and retail trade .....	6.4	6.1	6.2	6.2	6.1	6.2	5.8	5.9	5.8	5.4	5.2	5.1	5.7
Finance, insurance, and real estate .....	2.5	3.1	3.0	3.0	2.9	2.4	2.8	2.6	2.6	2.6	2.2	2.0	2.1
Services .....	4.7	4.4	4.5	4.6	4.3	4.4	4.5	4.3	4.7	4.7	4.3	4.8	4.7
Government workers .....	2.8	2.7	2.6	2.6	2.4	2.3	2.1	2.4	2.3	2.9	2.0	2.4	2.0
Agricultural wage and salary workers .....	10.4	8.4	8.9	9.0	9.6	8.6	9.7	10.6	8.6	9.7	8.0	7.9	8.1

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

NOTE: Beginning in January 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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>NUMBER OF UNEMPLOYED</b>													
Job losers and persons who completed temporary jobs ....	3,094	2,954	3,010	3,007	2,934	2,886	2,991	2,807	2,795	2,980	2,631	2,772	2,819
On temporary layoff .....	928	894	891	893	963	815	961	860	821	980	696	786	841
Not on temporary layoff .....	2,166	2,060	2,119	2,114	1,971	2,071	2,030	1,947	1,975	2,000	1,935	1,986	1,978
Job leavers .....	827	812	894	853	732	655	692	808	786	744	625	748	766
Reentrants .....	2,333	2,263	2,173	2,263	2,247	2,229	2,170	2,229	2,266	2,215	2,096	2,033	2,096
New entrants .....	510	564	554	560	555	560	552	518	543	549	511	493	532
<b>PERCENT DISTRIBUTION</b>													
Job losers and persons who completed temporary jobs ....	45.7	44.8	45.4	45.0	45.4	45.6	46.7	44.1	43.7	45.9	44.9	45.8	45.4
On temporary layoff .....	13.7	13.6	13.4	13.4	14.9	12.9	15.0	13.5	12.8	15.1	11.9	13.0	13.5
Not on temporary layoff .....	32.0	31.2	32.0	31.6	30.5	32.7	31.7	30.6	30.9	30.8	33.0	32.8	31.8
Job leavers .....	12.2	12.3	13.5	12.8	11.3	10.3	10.8	12.7	12.3	11.5	10.7	12.4	12.3
Reentrants .....	34.5	34.3	32.8	33.9	34.7	35.2	33.9	35.0	35.5	34.1	35.7	33.6	33.7
New entrants .....	7.5	8.6	8.4	8.4	8.6	8.8	8.6	8.1	8.5	8.5	8.7	8.2	8.6
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers and persons who completed temporary jobs ....	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.0	2.0	2.2	1.9	2.0	2.1
Job leavers .....	.6	.6	.7	.6	.5	.5	.5	.6	.6	.5	.5	.5	.6
Reentrants .....	1.7	1.7	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5
New entrants .....	.4	.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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>NUMBER OF UNEMPLOYED</b>													
Less than 5 weeks .....	2,541	2,446	2,564	2,484	2,558	2,423	2,531	2,488	2,622	2,858	2,632	2,634	2,519
5 to 14 weeks .....	2,188	2,097	2,121	2,115	1,912	2,048	1,922	1,971	1,909	1,979	1,901	1,954	2,084
15 weeks and over .....	2,069	2,128	2,027	2,109	1,990	1,865	1,964	1,811	1,830	1,731	1,417	1,462	1,621
15 to 26 weeks .....	1,031	1,061	950	1,031	919	899	936	773	855	841	584	656	852
27 weeks and over .....	1,038	1,067	1,077	1,078	1,071	966	1,028	1,038	974	891	833	806	769
Average (mean) duration, in weeks .....	15.3	16.5	15.8	15.9	16.3	15.6	16.3	15.6	15.6	14.3	14.3	14.6	13.8
Median duration, in weeks .....	7.9	8.2	7.9	8.1	7.7	7.8	7.7	7.4	7.2	6.8	6.4	5.9	6.6
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	37.4	36.7	38.2	37.0	39.6	38.2	39.4	39.7	41.2	43.5	44.2	43.5	40.5
5 to 14 weeks .....	32.2	31.4	31.6	31.5	29.6	32.3	30.0	31.4	30.0	30.1	31.9	32.3	33.5
15 weeks and over .....	30.4	31.9	30.2	31.4	30.8	29.4	30.6	28.9	28.8	26.4	23.8	24.2	26.0
15 to 26 weeks .....	15.2	15.9	14.2	15.4	14.2	14.2	14.6	12.3	13.4	12.8	9.8	10.8	13.7
27 weeks and over .....	15.3	16.0	16.0	16.1	16.6	15.2	16.0	16.6	15.3	13.6	14.0	13.3	12.4

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

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

(Numbers in thousands)

Age, sex, and race	June 1998									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed				Unemployed		Not in labor force
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
<b>TOTAL</b>										
16 years and over .....	205,085	138,798	67.7	132,265	64.5	3,718	128,546	6,534	4.7	66,287
16 to 19 years .....	15,651	9,553	61.0	7,905	50.5	392	7,513	1,648	17.2	6,098
16 to 17 years .....	7,880	3,957	50.2	3,065	38.9	209	2,856	892	22.5	3,923
18 to 19 years .....	7,771	5,596	72.0	4,840	62.3	183	4,657	756	13.5	2,175
20 to 24 years .....	17,581	14,118	80.3	12,961	73.7	342	12,619	1,157	8.2	3,463
25 to 54 years .....	117,427	98,360	83.8	95,050	80.9	2,193	92,856	3,310	3.4	19,067
25 to 34 years .....	38,760	32,774	84.6	31,386	81.0	765	30,621	1,388	4.2	5,986
25 to 29 years .....	18,573	15,736	84.7	15,028	80.9	385	14,643	709	4.5	2,836
30 to 34 years .....	20,187	17,038	84.4	16,358	81.0	380	15,978	679	4.0	3,149
35 to 44 years .....	44,345	37,366	84.3	36,182	81.6	793	35,389	1,184	3.2	6,979
35 to 39 years .....	22,470	18,819	83.8	18,181	80.9	435	17,745	639	3.4	3,651
40 to 44 years .....	21,875	18,547	84.8	18,002	82.3	358	17,644	545	2.9	3,328
45 to 54 years .....	34,322	28,220	82.2	27,481	80.1	635	26,847	739	2.6	6,102
45 to 49 years .....	18,755	15,862	84.6	15,453	82.4	364	15,088	409	2.6	2,893
50 to 54 years .....	15,567	12,358	79.4	12,029	77.3	270	11,758	329	2.7	3,209
55 to 64 years .....	22,224	13,046	58.7	12,721	57.2	449	12,272	325	2.5	9,178
55 to 59 years .....	12,139	8,404	69.2	8,207	67.6	237	7,969	197	2.3	3,735
60 to 64 years .....	10,085	4,641	46.0	4,514	44.8	211	4,303	127	2.7	5,443
65 years and over .....	32,203	3,722	11.6	3,628	11.3	342	3,286	94	2.5	28,481
65 to 69 years .....	9,307	2,058	22.1	2,002	21.5	154	1,848	57	2.7	7,248
70 to 74 years .....	8,649	1,021	11.8	1,006	11.6	107	899	15	1.5	7,627
75 years and over .....	14,248	643	4.5	620	4.4	81	539	22	3.4	13,605
<b>Men</b>										
16 years and over .....	98,691	74,945	75.9	71,618	72.6	2,830	68,788	3,326	4.4	23,747
16 to 19 years .....	7,992	4,976	62.3	4,087	51.1	303	3,784	889	17.9	3,015
16 to 17 years .....	4,056	2,112	52.1	1,597	39.4	170	1,427	515	24.4	1,944
18 to 19 years .....	3,936	2,864	72.8	2,490	63.3	133	2,357	375	13.1	1,072
20 to 24 years .....	8,780	7,519	85.6	6,941	79.1	280	6,661	577	7.7	1,261
25 to 54 years .....	57,744	53,067	91.9	51,429	89.1	1,646	49,784	1,638	3.1	4,677
25 to 34 years .....	19,081	17,840	93.5	17,202	90.2	583	16,618	639	3.6	1,241
25 to 29 years .....	9,122	8,502	93.2	8,139	89.2	292	7,847	362	4.3	621
30 to 34 years .....	9,959	9,338	93.8	9,062	91.0	291	8,771	276	3.0	620
35 to 44 years .....	21,883	20,209	92.4	19,637	89.7	582	19,056	571	2.8	1,674
35 to 39 years .....	11,120	10,308	92.7	10,013	90.0	322	9,690	295	2.9	812
40 to 44 years .....	10,763	9,901	92.0	9,625	89.4	259	9,365	276	2.8	862
45 to 54 years .....	16,780	15,018	89.5	14,590	86.9	480	14,110	428	2.8	1,763
45 to 49 years .....	9,211	8,386	91.0	8,154	88.5	290	7,864	232	2.8	825
50 to 54 years .....	7,569	6,632	87.6	6,436	85.0	190	6,246	196	3.0	937
55 to 64 years .....	10,588	7,216	68.2	7,043	66.5	327	6,716	173	2.4	3,372
55 to 59 years .....	5,817	4,600	79.1	4,496	77.3	167	4,329	105	2.3	1,217
60 to 64 years .....	4,770	2,616	54.8	2,547	53.4	160	2,387	68	2.6	2,155
65 years and over .....	13,588	2,167	15.9	2,118	15.6	274	1,843	49	2.3	11,421
65 to 69 years .....	4,263	1,200	28.1	1,169	27.4	132	1,037	30	2.5	3,064
70 to 74 years .....	3,801	587	15.4	580	15.3	82	498	6	1.1	3,214
75 years and over .....	5,524	380	6.9	368	6.7	60	308	12	3.2	5,143
<b>Women</b>										
16 years and over .....	106,394	63,854	60.0	60,646	57.0	888	59,758	3,207	5.0	42,540
16 to 19 years .....	7,659	4,577	59.8	3,818	49.8	89	3,728	759	16.6	3,083
16 to 17 years .....	3,825	1,845	48.3	1,468	38.4	39	1,429	378	20.5	1,979
18 to 19 years .....	3,834	2,731	71.2	2,350	61.3	50	2,300	381	13.9	1,103
20 to 24 years .....	8,801	6,599	75.0	6,020	68.4	62	5,958	579	8.8	2,201
25 to 54 years .....	59,683	45,293	75.9	43,620	73.1	548	43,073	1,672	3.7	14,390
25 to 34 years .....	19,679	14,934	75.9	14,185	72.1	182	14,003	749	5.0	4,745
25 to 29 years .....	9,450	7,234	76.6	6,888	72.9	93	6,796	346	4.8	2,216
30 to 34 years .....	10,229	7,699	75.3	7,296	71.3	89	7,207	403	5.2	2,529
35 to 44 years .....	22,463	17,157	76.4	16,545	73.7	211	16,333	612	3.6	5,305
35 to 39 years .....	11,351	8,511	75.0	8,168	72.0	113	8,055	343	4.0	2,840
40 to 44 years .....	11,112	8,646	77.8	8,377	75.4	98	8,278	269	3.1	2,466
45 to 54 years .....	17,542	13,202	75.3	12,891	73.5	154	12,737	311	2.4	4,340
45 to 49 years .....	9,543	7,476	78.3	7,299	76.5	75	7,224	177	2.4	2,068
50 to 54 years .....	7,998	5,726	71.6	5,593	69.9	80	5,513	134	2.3	2,272
55 to 64 years .....	11,636	5,830	50.1	5,678	48.8	122	5,556	152	2.6	5,806
55 to 59 years .....	6,322	3,804	60.2	3,711	58.7	70	3,641	93	2.4	2,518
60 to 64 years .....	5,314	2,026	38.1	1,967	37.0	51	1,916	59	2.9	3,289
65 years and over .....	18,615	1,555	8.4	1,510	8.1	67	1,443	45	2.9	17,060
65 to 69 years .....	5,044	859	17.0	832	16.5	22	810	26	3.0	4,185
70 to 74 years .....	4,848	435	9.0	426	8.8	25	401	9	2.1	4,413
75 years and over .....	8,724	262	3.0	252	2.9	21	231	10	3.8	8,462

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	June 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	
<b>WHITE</b>										
16 years and over .....	171,387	116,297	67.9	111,576	65.1	3,483	108,093	4,721	4.1	55,089
16 to 19 years .....	12,439	8,014	64.4	6,797	54.6	374	6,423	1,217	15.2	4,424
16 to 17 years .....	6,270	3,367	53.7	2,697	43.0	198	2,499	670	19.9	2,903
18 to 19 years .....	6,169	4,647	75.3	4,100	66.5	177	3,923	547	11.8	1,522
20 to 24 years .....	14,123	11,622	82.3	10,831	76.7	320	10,511	791	6.8	2,502
25 to 54 years .....	97,053	81,892	84.4	79,519	81.9	2,037	77,483	2,373	2.9	15,161
25 to 34 years .....	31,328	26,744	85.4	25,764	82.2	730	25,034	980	3.7	4,584
25 to 29 years .....	15,015	12,892	85.9	12,373	82.4	364	12,009	519	4.0	2,123
30 to 34 years .....	16,313	13,853	84.9	13,391	82.1	366	13,025	462	3.3	2,461
35 to 44 years .....	36,617	31,009	84.7	30,180	82.4	727	29,454	829	2.7	5,608
35 to 39 years .....	18,518	15,582	84.1	15,131	81.7	401	14,730	451	2.9	2,937
40 to 44 years .....	18,099	15,428	85.2	15,049	83.2	325	14,724	378	2.5	2,671
45 to 54 years .....	29,108	24,138	82.9	23,575	81.0	580	22,995	564	2.3	4,970
45 to 49 years .....	15,754	13,434	85.3	13,123	83.3	322	12,801	311	2.3	2,320
50 to 54 years .....	13,354	10,704	80.2	10,451	78.3	258	10,194	253	2.4	2,650
55 to 64 years .....	19,135	11,429	59.7	11,170	58.4	415	10,755	259	2.3	7,707
55 to 59 years .....	10,456	7,357	70.4	7,211	69.0	214	6,997	147	2.0	3,098
60 to 64 years .....	8,680	4,071	46.9	3,959	45.6	201	3,758	112	2.8	4,608
65 years and over .....	28,636	3,340	11.7	3,259	11.4	338	2,921	82	2.4	25,296
65 to 69 years .....	8,151	1,837	22.5	1,785	21.9	153	1,632	52	2.8	6,314
70 to 74 years .....	7,627	921	12.1	909	11.9	104	805	12	1.3	6,706
75 years and over .....	12,858	582	4.5	564	4.4	81	483	18	3.1	12,275
<b>Men</b>										
16 years and over .....	83,305	63,815	76.6	61,345	73.6	2,648	58,697	2,471	3.9	19,490
16 to 19 years .....	6,389	4,197	65.7	3,527	55.2	292	3,235	670	16.0	2,191
16 to 17 years .....	3,237	1,810	55.9	1,400	43.3	166	1,234	410	22.6	1,427
18 to 19 years .....	3,152	2,387	75.7	2,127	67.5	126	2,001	260	10.9	765
20 to 24 years .....	7,162	6,281	87.7	5,887	82.2	260	5,626	395	6.3	880
25 to 54 years .....	48,364	44,971	93.0	43,748	90.5	1,520	42,228	1,223	2.7	3,394
25 to 34 years .....	15,665	14,819	94.6	14,333	91.5	556	13,777	487	3.3	846
25 to 29 years .....	7,503	7,089	94.5	6,807	90.7	277	6,530	283	4.0	414
30 to 34 years .....	8,162	7,730	94.7	7,526	92.2	279	7,247	204	2.6	432
35 to 44 years .....	18,312	17,142	93.6	16,734	91.4	529	16,205	407	2.4	1,170
35 to 39 years .....	9,269	8,705	93.9	8,484	91.5	295	8,189	220	2.5	564
40 to 44 years .....	9,043	8,437	93.3	8,250	91.2	234	8,016	187	2.2	606
45 to 54 years .....	14,388	13,010	90.4	12,681	88.1	435	12,247	329	2.5	1,378
45 to 49 years .....	7,819	7,193	92.0	7,016	89.7	257	6,760	177	2.5	627
50 to 54 years .....	6,568	5,817	88.6	5,665	86.3	178	5,487	152	2.6	751
55 to 64 years .....	9,236	6,407	69.4	6,267	67.9	303	5,964	139	2.2	2,830
55 to 59 years .....	5,083	4,083	80.3	4,004	78.8	147	3,856	79	1.9	1,000
60 to 64 years .....	4,154	2,324	55.9	2,264	54.5	156	2,108	60	2.6	1,830
65 years and over .....	12,154	1,959	16.1	1,915	15.8	272	1,643	44	2.2	10,195
65 to 69 years .....	3,783	1,066	28.2	1,039	27.5	131	908	27	2.6	2,717
70 to 74 years .....	3,385	547	16.1	540	16.0	81	459	6	1.2	2,838
75 years and over .....	4,986	346	6.9	336	6.7	60	276	10	2.9	4,640
<b>Women</b>										
16 years and over .....	88,081	52,482	59.6	50,231	57.0	835	49,396	2,251	4.3	35,599
16 to 19 years .....	6,050	3,817	63.1	3,270	54.0	82	3,187	547	14.3	2,233
16 to 17 years .....	3,033	1,557	51.3	1,297	42.8	32	1,265	260	16.7	1,476
18 to 19 years .....	3,017	2,260	74.9	1,973	65.4	50	1,922	287	12.7	757
20 to 24 years .....	6,962	5,340	76.7	4,944	71.0	60	4,885	396	7.4	1,621
25 to 54 years .....	48,689	36,921	75.8	35,771	73.5	517	35,254	1,150	3.1	11,768
25 to 34 years .....	15,663	11,925	76.1	11,432	73.0	174	11,257	494	4.1	3,738
25 to 29 years .....	7,512	5,803	77.2	5,567	74.1	87	5,479	236	4.1	1,709
30 to 34 years .....	8,151	6,123	75.1	5,865	72.0	87	5,778	258	4.2	2,029
35 to 44 years .....	18,305	13,868	75.8	13,446	73.5	197	13,249	422	3.0	4,437
35 to 39 years .....	9,250	6,877	74.4	6,646	71.9	106	6,541	231	3.4	2,372
40 to 44 years .....	9,056	6,991	77.2	6,800	75.1	91	6,708	191	2.7	2,065
45 to 54 years .....	14,720	11,128	75.6	10,893	74.0	145	10,748	235	2.1	3,592
45 to 49 years .....	7,935	6,241	78.7	6,107	77.0	65	6,042	134	2.2	1,693
50 to 54 years .....	6,786	4,887	72.0	4,786	70.5	80	4,706	101	2.1	1,899
55 to 64 years .....	9,899	5,022	50.7	4,903	49.5	111	4,791	119	2.4	4,877
55 to 59 years .....	5,373	3,274	60.9	3,207	59.7	66	3,141	67	2.1	2,099
60 to 64 years .....	4,526	1,748	38.6	1,696	37.5	45	1,651	52	3.0	2,778
65 years and over .....	16,482	1,381	8.4	1,343	8.2	65	1,278	38	2.7	15,101
65 to 69 years .....	4,367	770	17.6	746	17.1	22	724	24	3.2	3,597
70 to 74 years .....	4,243	374	8.8	369	8.7	22	346	6	1.5	3,868
75 years and over .....	7,872	236	3.0	229	2.9	21	208	8	3.3	7,635

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	June 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	
<b>BLACK</b>										
16 years and over .....	24,349	16,182	66.5	14,709	60.4	155	14,554	1,473	9.1	8,167
16 to 19 years .....	2,445	1,236	50.5	871	35.6	16	855	365	29.6	1,209
16 to 17 years .....	1,242	477	38.4	293	23.6	11	281	184	38.6	765
18 to 19 years .....	1,204	759	63.1	578	48.0	5	573	181	23.9	444
20 to 24 years .....	2,539	1,862	73.3	1,552	61.1	17	1,535	311	16.7	677
25 to 54 years .....	14,458	11,695	80.9	10,942	75.7	104	10,838	754	6.4	2,762
25 to 34 years .....	5,225	4,341	83.1	3,979	76.1	25	3,953	363	8.4	884
25 to 29 years .....	2,548	2,077	81.5	1,901	74.6	12	1,889	176	8.5	470
30 to 34 years .....	2,677	2,264	84.6	2,078	77.6	14	2,064	186	8.2	413
35 to 44 years .....	5,509	4,508	81.8	4,236	76.9	47	4,189	272	6.0	1,000
35 to 39 years .....	2,839	2,318	81.7	2,163	76.2	31	2,132	155	6.7	520
40 to 44 years .....	2,670	2,190	82.0	2,073	77.7	16	2,057	117	5.3	480
45 to 54 years .....	3,724	2,846	76.4	2,727	73.2	32	2,695	119	4.2	879
45 to 49 years .....	2,165	1,721	79.5	1,645	76.0	29	1,617	76	4.4	444
50 to 54 years .....	1,559	1,125	72.1	1,082	69.4	3	1,078	43	3.8	435
55 to 64 years .....	2,242	1,117	49.8	1,079	48.1	18	1,061	38	3.4	1,124
55 to 59 years .....	1,225	726	59.3	697	56.9	11	686	29	4.0	499
60 to 64 years .....	1,017	392	38.5	382	37.6	7	375	10	2.4	625
65 years and over .....	2,665	270	10.1	266	10.0	—	266	4	1.6	2,394
65 to 69 years .....	819	152	18.6	152	18.6	—	152	—	—	667
70 to 74 years .....	763	71	9.3	68	9.0	—	68	2	(1)	692
75 years and over .....	1,082	48	4.4	45	4.2	—	45	2	(1)	1,035
<b>Men</b>										
16 years and over .....	10,916	7,700	70.5	7,034	64.4	122	6,912	666	8.7	3,216
16 to 19 years .....	1,202	595	49.5	415	34.6	9	407	180	30.2	607
16 to 17 years .....	623	218	34.9	140	22.5	4	136	78	35.7	405
18 to 19 years .....	579	377	65.2	275	47.6	5	271	102	27.0	202
20 to 24 years .....	1,163	905	77.8	752	64.7	14	738	152	16.8	259
25 to 54 years .....	6,532	5,518	84.5	5,200	79.6	86	5,114	318	5.8	1,014
25 to 34 years .....	2,336	2,065	88.4	1,935	82.8	21	1,914	130	6.3	271
25 to 29 years .....	1,126	988	87.7	915	81.3	9	906	73	7.4	138
30 to 34 years .....	1,210	1,077	89.0	1,020	84.3	12	1,008	58	5.3	133
35 to 44 years .....	2,519	2,098	83.3	1,977	78.5	40	1,938	121	5.8	420
35 to 39 years .....	1,292	1,078	83.4	1,020	79.0	24	997	58	5.3	214
40 to 44 years .....	1,226	1,020	83.2	957	78.0	16	941	63	6.2	206
45 to 54 years .....	1,677	1,355	80.8	1,288	76.8	26	1,262	67	4.9	323
45 to 49 years .....	983	817	83.1	773	78.6	23	750	44	5.4	166
50 to 54 years .....	695	538	77.4	515	74.2	40	512	22	4.1	157
55 to 64 years .....	954	539	56.5	522	54.8	13	509	17	3.1	415
55 to 59 years .....	522	352	67.4	341	65.4	11	331	10	2.9	170
60 to 64 years .....	432	187	43.3	181	41.9	2	179	6	3.4	245
65 years and over .....	1,065	143	13.5	143	13.5	—	143	—	—	922
65 to 69 years .....	327	86	26.4	86	26.4	—	86	—	—	291
70 to 74 years .....	322	27	8.4	27	8.4	—	27	—	(1)	295
75 years and over .....	416	30	7.2	30	7.2	—	30	—	(1)	386
<b>Women</b>										
16 years and over .....	13,433	8,482	63.1	7,675	57.1	33	7,643	807	9.5	4,951
16 to 19 years .....	1,243	641	51.6	455	36.6	7	448	186	29.0	602
16 to 17 years .....	619	259	41.9	153	24.7	7	146	107	41.1	360
18 to 19 years .....	625	382	61.1	303	48.4	—	303	79	20.8	243
20 to 24 years .....	1,376	958	69.6	799	58.1	3	796	159	16.6	418
25 to 54 years .....	7,926	6,177	77.9	5,741	72.4	18	5,724	436	7.1	1,748
25 to 34 years .....	2,889	2,276	78.8	2,044	70.7	4	2,039	232	10.2	613
25 to 29 years .....	1,422	1,089	76.6	985	69.3	2	983	104	9.5	332
30 to 34 years .....	1,467	1,187	80.9	1,058	72.1	2	1,056	129	10.9	280
35 to 44 years .....	2,990	2,410	80.6	2,259	75.5	7	2,252	151	6.3	580
35 to 39 years .....	1,547	1,240	80.2	1,143	73.9	7	1,135	98	7.9	306
40 to 44 years .....	1,443	1,170	81.0	1,116	77.3	—	1,116	53	4.6	274
45 to 54 years .....	2,047	1,491	72.8	1,439	70.3	6	1,433	52	3.5	556
45 to 49 years .....	1,182	904	76.5	873	73.8	6	866	31	3.5	278
50 to 54 years .....	865	587	67.9	566	65.5	—	566	21	3.6	278
55 to 64 years .....	1,288	579	44.9	557	43.2	5	552	22	3.7	710
55 to 59 years .....	703	374	53.2	356	50.6	—	356	18	4.9	329
60 to 64 years .....	585	205	34.9	201	34.4	5	196	3	1.6	381
65 years and over .....	1,600	127	7.9	123	7.7	—	123	4	3.5	1,473
65 to 69 years .....	492	66	13.4	66	13.4	—	66	—	(1)	426
70 to 74 years .....	441	43	9.8	41	9.3	—	41	2	(1)	398
75 years and over .....	666	18	2.7	16	2.4	—	16	2	(1)	648

<sup>1</sup> 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-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	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
<b>TOTAL</b>								
Civilian noninstitutional population .....	203,000	205,085	89,829	90,700	97,834	98,735	15,336	15,651
Civilian labor force .....	137,557	138,798	69,549	69,968	58,908	59,277	9,100	9,553
Percent of population .....	67.8	67.7	77.4	77.1	60.2	60.0	59.3	61.0
Employed .....	130,463	132,265	66,828	67,531	56,263	56,828	7,372	7,905
Agriculture .....	3,757	3,718	2,596	2,527	809	799	353	392
Nonagricultural industries .....	126,705	128,546	64,232	65,004	55,454	56,030	7,019	7,513
Unemployed .....	7,094	6,534	2,721	2,437	2,645	2,449	1,728	1,648
Unemployment rate .....	5.2	4.7	3.9	3.5	4.5	4.1	19.0	17.2
Not in labor force .....	65,443	66,287	20,280	20,731	38,926	39,458	6,237	6,098
<b>White</b>								
Civilian noninstitutional population .....	169,897	171,387	76,275	76,917	81,455	82,031	12,167	12,439
Civilian labor force .....	115,832	116,297	59,447	59,618	48,666	48,665	7,719	8,014
Percent of population .....	68.2	67.9	77.9	77.5	59.7	59.3	63.4	64.4
Employed .....	110,839	111,576	57,494	57,817	46,846	46,961	6,499	6,797
Agriculture .....	3,532	3,483	2,418	2,356	777	753	337	374
Nonagricultural industries .....	107,306	108,093	55,076	55,462	46,069	46,208	6,162	6,423
Unemployed .....	4,994	4,721	1,953	1,801	1,820	1,704	1,220	1,217
Unemployment rate .....	4.3	4.1	3.3	3.0	3.7	3.5	15.8	15.2
Not in labor force .....	54,065	55,089	16,828	17,299	32,789	33,366	4,448	4,424
<b>Black</b>								
Civilian noninstitutional population .....	23,978	24,349	9,569	9,714	11,987	12,190	2,423	2,445
Civilian labor force .....	15,605	16,182	6,943	7,105	7,597	7,841	1,065	1,236
Percent of population .....	65.1	66.5	72.6	73.1	63.4	64.3	44.0	50.5
Employed .....	13,854	14,709	6,327	6,619	6,900	7,220	627	871
Agriculture .....	153	155	131	113	15	25	8	16
Nonagricultural industries .....	13,701	14,554	6,196	6,505	6,886	7,194	619	855
Unemployed .....	1,751	1,473	616	486	697	621	439	365
Unemployment rate .....	11.2	9.1	8.9	6.8	9.2	7.9	41.2	29.6
Not in labor force .....	8,373	8,167	2,626	2,609	4,390	4,349	1,357	1,209

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	June 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			
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	10,521	5,513	52.4	4,807	1,407	3,400	705	379	326	12.8
16 to 19 years .....	6,991	3,307	47.3	2,744	504	2,239	563	290	273	17.0
20 to 24 years .....	3,530	2,206	62.5	2,064	903	1,161	142	89	54	6.5
High school .....	5,591	2,385	42.7	1,893	254	1,639	491	238	253	20.6
College .....	4,931	3,128	63.4	2,914	1,153	1,761	214	141	73	6.8
Full-time students .....	3,822	2,202	57.6	2,039	702	1,337	163	102	61	7.4
Part-time students .....	1,109	926	83.5	875	451	424	51	39	12	5.5
Men, 16 to 24 years .....	5,216	2,683	51.4	2,283	700	1,583	400	210	190	14.9
16 to 19 years .....	3,568	1,685	47.2	1,370	273	1,097	315	150	165	18.7
20 to 24 years .....	1,649	998	60.6	913	427	486	85	60	25	8.5
High school .....	3,016	1,324	43.9	1,041	170	871	283	132	151	21.4
College .....	2,200	1,359	61.8	1,242	530	712	117	79	39	8.6
Full-time students .....	1,754	965	55.0	880	323	557	86	55	30	8.9
Part-time students .....	446	393	88.2	362	207	155	32	23	8	8.1
Women, 16 to 24 years .....	5,305	2,830	53.3	2,525	707	1,817	305	169	136	10.8
16 to 19 years .....	3,423	1,622	47.4	1,374	232	1,142	248	140	108	15.3
20 to 24 years .....	1,881	1,208	64.2	1,151	475	675	57	29	28	4.7
High school .....	2,575	1,061	41.2	853	84	768	208	106	102	19.6
College .....	2,730	1,769	64.8	1,672	623	1,049	97	62	35	5.5
Full-time students .....	2,067	1,237	59.8	1,159	379	780	78	47	30	6.3
Part-time students .....	663	532	80.3	513	244	269	19	15	4	3.7
<b>White</b>										
Total, 16 to 24 years .....	8,120	4,529	55.8	4,015	1,175	2,841	513	257	257	11.3
16 to 19 years .....	5,370	2,724	50.7	2,313	419	1,893	411	198	213	15.1
20 to 24 years .....	2,750	1,805	65.6	1,703	755	947	102	58	44	5.7
Men .....	4,025	2,186	54.3	1,897	587	1,310	289	132	157	13.2
Women .....	4,095	2,343	57.2	2,118	588	1,531	225	124	100	9.6
High school .....	4,276	1,939	45.3	1,586	206	1,379	353	156	197	18.2
College .....	3,844	2,590	67.4	2,430	968	1,461	160	100	60	6.2
Full-time students .....	2,940	1,821	61.9	1,689	578	1,110	132	79	54	7.3
Part-time students .....	904	769	85.1	741	390	351	28	22	7	3.7
<b>Black</b>										
Total, 16 to 24 years .....	1,595	702	44.0	544	165	378	158	107	51	22.5
16 to 19 years .....	1,139	448	39.4	325	64	261	124	78	46	27.5
20 to 24 years .....	455	253	55.6	219	102	117	35	29	5	13.7
Men .....	792	348	44.0	253	78	175	96	69	27	27.4
Women .....	803	353	44.0	291	87	203	63	38	24	17.7
High school .....	954	358	37.5	249	43	206	109	66	42	30.3
College .....	640	344	53.7	294	122	172	50	41	9	14.4
Full-time students .....	521	253	48.6	223	91	132	30	24	7	12.0
Part-time students .....	120	91	76.2	72	32	40	19	17	2	21.3
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,493	583	39.0	488	169	319	95	40	55	16.2
16 to 19 years .....	1,058	332	31.4	253	81	191	80	35	45	24.0
20 to 24 years .....	436	251	57.5	236	108	128	15	5	10	6.0
Men .....	770	281	36.5	246	96	150	35	10	25	12.5
Women .....	723	302	41.7	242	73	169	60	30	30	19.8
High school .....	953	231	24.3	161	33	128	70	24	47	30.3
College .....	540	351	65.1	327	136	191	24	17	8	7.0
Full-time students .....	371	204	54.9	186	65	121	18	10	8	8.6
Part-time students .....	169	148	87.5	141	71	70	7	7	-	4.7

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Enrollment status, educational attainment, race, and Hispanic origin	June 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	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	22,710	18,158	80.0	16,059	11,777	4,282	2,099	1,667	433	11.6
16 to 19 years .....	8,660	6,246	72.1	5,161	2,668	2,493	1,085	767	318	17.4
20 to 24 years .....	14,051	11,912	84.8	10,897	9,109	1,789	1,014	899	115	8.5
Less than a high school diploma .....	7,979	5,317	66.6	4,350	2,406	1,944	967	693	273	18.2
High school graduates, no college .....	7,464	6,335	84.9	5,644	4,472	1,172	691	591	100	10.9
Less than a bachelor's degree .....	5,678	5,060	89.1	4,709	3,645	1,064	351	301	50	6.9
College graduates .....	1,589	1,446	91.0	1,355	1,254	102	91	81	10	6.3
<b>Men, 16 to 24 years .....</b>	<b>11,555</b>	<b>9,812</b>	<b>84.9</b>	<b>8,746</b>	<b>6,967</b>	<b>1,779</b>	<b>1,067</b>	<b>868</b>	<b>199</b>	<b>10.9</b>
16 to 19 years .....	4,424	3,292	74.4	2,718	1,609	1,109	574	401	173	17.4
20 to 24 years .....	7,131	6,520	91.4	6,028	5,358	670	492	467	25	7.6
Less than a high school diploma .....	4,287	3,157	73.6	2,621	1,734	887	536	393	142	17.0
High school graduates, no college .....	3,909	3,548	90.8	3,213	2,775	437	335	305	30	9.4
Less than a bachelor's degree .....	2,684	2,472	92.1	2,317	1,886	431	155	132	23	6.3
College graduates .....	676	635	94.0	595	571	24	41	37	4	6.4
<b>Women, 16 to 24 years .....</b>	<b>11,155</b>	<b>8,346</b>	<b>74.8</b>	<b>7,313</b>	<b>4,810</b>	<b>2,503</b>	<b>1,033</b>	<b>799</b>	<b>234</b>	<b>12.4</b>
16 to 19 years .....	4,236	2,955	69.8	2,444	1,059	1,385	511	366	144	17.3
20 to 24 years .....	6,919	5,391	77.9	4,869	3,751	1,118	522	432	90	9.7
Less than a high school diploma .....	3,692	2,160	58.5	1,729	672	1,058	431	300	131	19.9
High school graduates, no college .....	3,555	2,787	78.4	2,431	1,697	734	356	286	70	12.8
Less than a bachelor's degree .....	2,994	2,588	86.5	2,392	1,759	633	196	169	27	7.6
College graduates .....	913	811	88.8	761	683	78	50	44	6	6.2
<b>White</b>										
Total, 16 to 24 years .....	18,442	15,107	81.9	13,612	10,027	3,586	1,495	1,163	332	9.9
16 to 19 years .....	7,068	5,290	74.8	4,484	2,344	2,140	806	557	249	15.2
20 to 24 years .....	11,374	9,817	86.3	9,128	7,682	1,446	689	606	83	7.0
Men .....	9,526	8,293	87.1	7,517	6,058	1,459	776	620	156	9.4
Women .....	8,916	6,814	76.4	6,096	3,968	2,127	719	542	176	10.5
Less than a high school diploma .....	6,437	4,485	69.7	3,771	2,094	1,678	714	500	214	15.9
High school graduates, no college .....	5,966	5,131	86.0	4,694	3,748	947	436	364	72	8.5
Less than a bachelor's degree .....	4,644	4,207	90.6	3,942	3,073	869	265	227	37	6.3
College graduates .....	1,396	1,284	92.0	1,205	1,112	92	80	71	9	6.2
<b>Black</b>										
Total, 16 to 24 years .....	3,390	2,397	70.7	1,879	1,325	553	518	440	79	21.6
16 to 19 years .....	1,306	788	60.3	546	247	298	242	188	54	30.7
20 to 24 years .....	2,084	1,609	77.2	1,333	1,078	255	276	252	25	17.2
Men .....	1,573	1,151	73.2	915	667	248	236	206	30	20.5
Women .....	1,817	1,246	68.6	963	658	306	282	233	49	22.6
Less than a high school diploma .....	1,265	675	53.3	449	234	215	226	179	47	33.5
High school graduates, no college .....	1,265	1,015	80.3	786	595	191	229	203	26	22.5
Less than a bachelor's degree .....	773	640	82.8	577	437	140	64	58	6	9.9
College graduates .....	87	67	76.4	67	59	7	-	-	-	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	3,489	2,633	75.5	2,287	1,789	498	346	275	72	13.1
16 to 19 years .....	1,143	779	68.1	584	361	224	194	148	47	25.0
20 to 24 years .....	2,346	1,855	79.1	1,703	1,429	274	152	127	25	8.2
Men .....	1,851	1,617	87.3	1,438	1,244	194	179	154	26	11.1
Women .....	1,637	1,016	62.1	849	546	304	167	121	46	16.4
Less than a high school diploma .....	1,777	1,182	66.5	974	758	216	208	161	47	17.6
High school graduates, no college .....	1,061	875	82.5	779	638	141	96	79	17	10.9
Less than a bachelor's degree .....	577	508	88.0	469	346	122	39	32	7	7.7
College graduates .....	74	68	( <sup>1</sup> )	65	46	19	3	3	-	( <sup>1</sup> )

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

NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and college students into that group. Detail for the above race and Hispanic-origin groups

will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**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	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
<b>TOTAL</b>												
Civilian noninstitutional population ...	170,268	171,854	81,154	81,919	89,114	89,934	143,767	144,825	19,060	19,364	15,497	16,054
Civilian labor force .....	114,438	115,128	62,058	62,450	52,380	52,678	96,553	96,661	12,708	13,083	10,804	11,220
Percent of population .....	67.2	67.0	76.5	76.2	58.8	58.6	67.2	66.7	66.7	67.6	69.7	69.9
Employed .....	110,260	111,399	59,920	60,590	50,340	50,809	93,540	93,948	11,761	12,287	10,164	10,619
Employment-population ratio .....	64.8	64.8	73.8	74.0	56.5	56.5	65.1	64.9	61.7	63.5	65.6	66.1
Unemployed .....	4,178	3,729	2,138	1,860	2,040	1,869	3,013	2,713	948	796	641	601
Unemployment rate .....	3.7	3.2	3.4	3.0	3.9	3.5	3.1	2.8	7.5	6.1	5.9	5.4
<b>Less than a high school diploma</b>												
Civilian noninstitutional population ...	29,924	30,064	14,175	14,368	15,749	15,696	23,873	24,083	4,688	4,515	6,834	7,066
Civilian labor force .....	12,693	12,988	7,868	7,990	4,825	4,998	10,295	10,504	1,830	1,822	4,023	4,152
Percent of population .....	42.4	43.2	55.5	55.6	30.6	31.8	43.1	43.6	39.0	40.3	58.9	58.8
Employed .....	11,737	12,130	7,368	7,572	4,369	4,558	9,597	9,902	1,608	1,612	3,666	3,894
Employment-population ratio .....	39.2	40.3	52.0	52.7	27.7	29.0	40.2	41.1	34.3	35.7	53.6	55.1
Unemployed .....	956	858	500	418	456	439	698	602	222	210	356	258
Unemployment rate .....	7.5	6.6	6.4	5.2	9.5	8.8	6.8	5.7	12.1	11.5	8.9	6.2
<b>High school graduates, no college</b>												
Civilian noninstitutional population ...	57,643	57,446	26,352	26,150	31,291	31,296	48,973	48,804	6,850	6,783	4,211	4,185
Civilian labor force .....	37,915	37,174	20,269	19,917	17,646	17,257	31,800	31,165	4,856	4,743	3,131	3,089
Percent of population .....	65.8	64.7	76.9	76.2	56.4	55.1	64.9	63.9	70.9	69.9	74.3	73.8
Employed .....	36,372	35,780	19,475	19,183	16,897	16,597	30,744	30,158	4,448	4,426	2,995	2,908
Employment-population ratio .....	63.1	62.3	73.9	73.4	54.0	53.0	62.8	61.8	64.9	65.2	71.1	69.5
Unemployed .....	1,544	1,394	794	734	749	660	1,056	1,007	408	317	136	181
Unemployment rate .....	4.1	3.8	3.9	3.7	4.2	3.8	3.3	3.2	8.4	6.7	4.3	5.8
<b>Less than a bachelor's degree<sup>1</sup></b>												
Civilian noninstitutional population ...	41,747	41,880	19,266	19,383	22,481	22,497	35,271	35,191	4,917	5,176	2,823	3,064
Civilian labor force .....	31,091	31,008	15,831	15,807	15,260	15,201	26,062	25,770	3,871	4,067	2,291	2,512
Percent of population .....	74.5	74.0	82.2	81.6	67.9	67.6	73.9	73.2	78.7	78.6	81.2	82.0
Employed .....	30,117	30,151	15,345	15,400	14,772	14,751	25,375	25,144	3,634	3,890	2,207	2,393
Employment-population ratio .....	72.1	72.0	79.6	79.5	65.7	65.6	71.9	71.4	73.9	75.1	78.2	78.1
Unemployed .....	974	857	486	407	488	450	687	626	237	177	85	119
Unemployment rate .....	3.1	2.8	3.1	2.6	3.2	3.0	2.6	2.4	6.1	4.3	3.7	4.7
<b>Some college, no degree</b>												
Civilian noninstitutional population ...	29,326	29,610	13,948	13,899	15,378	15,711	24,605	24,640	3,702	3,937	2,131	2,246
Civilian labor force .....	21,321	21,327	11,228	11,012	10,094	10,315	17,658	17,502	2,920	3,041	1,723	1,823
Percent of population .....	72.7	72.0	80.5	79.2	65.6	65.7	71.8	71.0	78.9	77.2	80.8	81.1
Employed .....	20,589	20,689	10,851	10,694	9,738	9,995	17,163	17,050	2,722	2,896	1,659	1,729
Employment-population ratio .....	70.2	69.9	77.8	76.9	63.3	63.6	69.8	69.2	73.5	73.6	77.9	77.0
Unemployed .....	732	638	376	319	356	320	495	453	198	145	64	94
Unemployment rate .....	3.4	3.0	3.4	2.9	3.5	3.1	2.8	2.6	6.8	4.8	3.7	5.1
<b>Associate degree</b>												
Civilian noninstitutional population ...	12,421	12,269	5,318	5,484	7,102	6,786	10,667	10,552	1,214	1,240	692	817
Civilian labor force .....	9,770	9,681	4,603	4,795	5,167	4,886	8,404	8,267	951	1,026	569	689
Percent of population .....	78.7	78.9	86.6	87.4	72.7	72.0	78.8	78.4	78.3	82.7	82.2	84.3
Employed .....	9,528	9,463	4,494	4,706	5,034	4,756	8,212	8,094	912	994	548	664
Employment-population ratio .....	76.7	77.1	84.5	85.8	70.9	70.1	77.0	76.7	75.1	80.2	79.2	81.3
Unemployed .....	242	218	110	88	132	130	192	173	39	32	21	25
Unemployment rate .....	2.5	2.3	2.4	1.8	2.6	2.7	2.3	2.1	4.1	3.1	3.7	3.6
<b>College graduates</b>												
Civilian noninstitutional population ...	40,955	42,464	21,361	22,019	19,594	20,445	35,649	36,746	2,606	2,889	1,629	1,739
Civilian labor force .....	32,738	33,957	18,089	18,735	14,649	15,223	28,396	29,223	2,151	2,452	1,359	1,468
Percent of population .....	79.9	80.0	84.7	85.1	74.8	74.5	79.7	79.5	82.6	84.9	83.4	84.4
Employed .....	32,034	33,337	17,732	18,435	14,302	14,902	27,824	28,744	2,071	2,359	1,295	1,424
Employment-population ratio .....	78.2	78.5	83.0	83.7	73.0	72.9	78.0	78.2	79.5	81.7	79.5	81.9
Unemployed .....	704	620	358	300	347	320	571	479	81	93	64	44
Unemployment rate .....	2.2	1.8	2.0	1.6	2.4	2.1	2.0	1.6	3.7	3.8	4.7	3.0

<sup>1</sup> Includes the categories, some college, no degree; and associate degree.

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age, sex, and race	June 1998									
	Employed <sup>1</sup>							Unemployed		
	Full-time workers				Part-time workers				Looking for full-time work	Looking for part-time work
	Total	At work		Not at work	Total	At work <sup>2</sup>		Not at work		
35 hours or more		1 to 34 hours for economic or noneconomic reasons	Part time for economic reasons			Part time for noneconomic reasons				
<b>TOTAL</b>										
Total, 16 years and over .....	109,708	94,735	9,749	5,224	22,556	2,756	17,907	1,894	5,299	1,234
16 to 19 years .....	3,173	2,632	416	124	4,732	524	3,982	226	1,058	590
16 to 17 years .....	656	486	144	26	2,409	149	2,148	112	488	404
18 to 19 years .....	2,517	2,146	273	98	2,323	375	1,834	114	570	186
20 years and over .....	106,535	92,102	9,333	5,101	17,824	2,231	13,925	1,668	4,242	644
20 to 24 years .....	10,012	8,772	980	259	2,949	588	2,181	180	988	169
25 years and over .....	96,524	83,330	8,353	4,841	14,875	1,643	11,744	1,487	3,254	475
25 to 54 years .....	84,326	73,085	7,136	4,105	10,723	1,456	8,244	1,023	2,952	358
55 years and over .....	12,197	10,245	1,216	736	4,152	187	3,500	464	302	117
<b>Men, 16 years and over .....</b>	<b>64,548</b>	<b>57,343</b>	<b>4,897</b>	<b>2,309</b>	<b>7,070</b>	<b>1,149</b>	<b>5,416</b>	<b>504</b>	<b>2,823</b>	<b>503</b>
16 to 19 years .....	1,882	1,551	265	66	2,205	214	1,879	112	551	338
20 years and over .....	62,667	55,792	4,632	2,243	4,864	935	3,537	392	2,272	165
20 to 24 years .....	5,785	5,139	551	96	1,156	297	798	61	527	51
25 years and over .....	56,882	50,653	4,082	2,147	3,708	639	2,739	331	1,745	115
25 to 54 years .....	49,428	44,202	3,465	1,761	2,001	543	1,304	155	1,578	60
55 years and over .....	7,454	6,451	616	386	1,707	96	1,436	176	167	54
<b>Women, 16 years and over .....</b>	<b>45,160</b>	<b>37,392</b>	<b>4,852</b>	<b>2,916</b>	<b>15,487</b>	<b>1,606</b>	<b>12,491</b>	<b>1,389</b>	<b>2,476</b>	<b>731</b>
16 to 19 years .....	1,291	1,081	152	58	2,527	310	2,103	114	506	252
20 years and over .....	43,869	36,310	4,701	2,858	12,960	1,296	10,388	1,276	1,970	479
20 to 24 years .....	4,226	3,634	429	163	1,793	292	1,383	119	461	118
25 years and over .....	39,642	32,676	4,271	2,695	11,166	1,005	9,005	1,157	1,509	361
25 to 54 years .....	34,898	28,883	3,671	2,345	8,722	913	6,941	868	1,374	298
55 years and over .....	4,744	3,794	600	350	2,444	91	2,064	289	134	63
<b>White</b>										
<b>Men, 16 years and over .....</b>	<b>55,381</b>	<b>49,212</b>	<b>4,154</b>	<b>2,014</b>	<b>5,964</b>	<b>894</b>	<b>4,632</b>	<b>438</b>	<b>2,067</b>	<b>403</b>
16 to 19 years .....	1,663	1,387	219	57	1,864	163	1,602	99	399	271
20 years and over .....	53,717	47,826	3,935	1,957	4,100	731	3,030	339	1,668	133
20 to 24 years .....	4,982	4,456	436	90	905	232	622	51	353	42
25 years and over .....	48,735	43,370	3,499	1,867	3,195	499	2,408	288	1,315	91
25 to 54 years .....	42,127	37,654	2,963	1,511	1,621	418	1,076	127	1,180	43
55 years and over .....	6,608	5,716	536	357	1,574	81	1,333	161	135	48
<b>Women, 16 years and over .....</b>	<b>36,817</b>	<b>30,281</b>	<b>4,071</b>	<b>2,464</b>	<b>13,415</b>	<b>1,219</b>	<b>10,955</b>	<b>1,240</b>	<b>1,671</b>	<b>580</b>
16 to 19 years .....	1,100	937	128	36	2,169	259	1,809	101	355	192
20 years and over .....	35,716	29,344	3,944	2,428	11,245	960	9,146	1,140	1,315	388
20 to 24 years .....	3,456	2,965	357	134	1,489	222	1,172	94	311	85
25 years and over .....	32,260	26,379	3,587	2,294	9,757	738	7,974	1,045	1,004	303
25 to 54 years .....	28,161	23,109	3,062	1,990	7,610	677	6,153	781	901	249
55 years and over .....	4,099	3,270	525	305	2,147	61	1,821	265	103	54
<b>Black</b>										
<b>Men, 16 years and over .....</b>	<b>6,303</b>	<b>5,540</b>	<b>560</b>	<b>204</b>	<b>730</b>	<b>175</b>	<b>526</b>	<b>29</b>	<b>592</b>	<b>75</b>
16 to 19 years .....	157	120	33	4	258	44	207	7	128	52
20 years and over .....	6,146	5,420	527	199	472	131	320	22	464	23
20 to 24 years .....	588	495	89	4	164	47	112	5	147	5
25 years and over .....	5,558	4,925	438	195	308	84	207	17	316	18
25 to 54 years .....	4,980	4,435	370	175	220	75	133	11	302	16
55 years and over .....	578	490	67	20	88	8	74	6	14	2
<b>Women, 16 years and over .....</b>	<b>6,186</b>	<b>5,238</b>	<b>615</b>	<b>333</b>	<b>1,490</b>	<b>278</b>	<b>1,106</b>	<b>105</b>	<b>705</b>	<b>102</b>
16 to 19 years .....	154	109	23	22	301	47	242	13	138	48
20 years and over .....	6,032	5,128	592	311	1,188	232	864	92	567	54
20 to 24 years .....	591	517	57	16	208	49	145	13	133	25
25 years and over .....	5,440	4,611	534	295	981	182	719	79	434	29
25 to 54 years .....	4,984	4,240	473	271	758	164	535	58	412	24
55 years and over .....	457	371	61	24	223	18	184	20	22	4

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

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

NOTE: Beginning in January 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**

(Percent distribution)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
Total .....	130,463	132,265	70,619	71,618	66,828	67,531	59,843	60,646	56,263	56,828
Managerial and professional specialty .....	37,271	38,449	18,911	19,620	18,791	19,466	18,360	18,828	18,236	18,629
Executive, administrative, and managerial .....	18,471	19,074	10,199	10,694	10,151	10,644	8,273	8,380	8,239	8,322
Officials and administrators, public administration .....	664	735	340	382	340	382	324	353	324	351
Other executive, administrative, and managerial .....	13,246	13,749	7,978	8,310	7,939	8,265	5,268	5,439	5,242	5,414
Management-related occupations .....	4,561	4,589	1,881	2,002	1,873	1,997	2,681	2,587	2,673	2,557
Professional specialty .....	18,800	19,375	8,713	8,926	8,641	8,822	10,087	10,448	9,998	10,307
Engineers .....	2,006	2,046	1,826	1,791	1,821	1,782	180	254	180	254
Mathematical and computer scientists .....	1,528	1,587	1,046	1,143	1,042	1,140	482	443	482	440
Natural scientists .....	528	482	365	333	364	333	163	149	163	148
Health diagnosing occupations .....	1,036	1,024	754	750	754	749	282	274	280	274
Health assessment and treating occupations .....	2,939	2,974	376	430	375	428	2,563	2,544	2,560	2,538
Teachers, college and university .....	717	779	427	460	423	449	290	319	284	314
Teachers, except college and university .....	4,471	4,803	1,049	1,103	1,031	1,078	3,422	3,701	3,396	3,625
Lawyers and judges .....	878	1,018	622	719	622	719	256	299	256	299
Other professional specialty occupations .....	4,698	4,663	2,248	2,197	2,208	2,145	2,450	2,466	2,397	2,415
Technical, sales, and administrative support .....	38,218	38,605	13,742	13,853	12,937	13,078	24,476	24,752	22,700	22,854
Technicians and related support .....	4,338	4,370	2,034	2,014	1,987	1,977	2,304	2,356	2,261	2,314
Health technologists and technicians .....	1,800	1,764	361	343	355	338	1,439	1,421	1,418	1,416
Engineering and science technicians .....	1,272	1,359	945	978	923	952	327	381	314	361
Technicians, except health, engineering, and science .....	1,265	1,247	727	693	710	687	538	554	529	537
Sales occupations .....	15,806	15,979	7,906	7,993	7,352	7,486	7,900	7,987	6,771	6,762
Supervisors and proprietors .....	4,757	4,796	2,960	2,923	2,940	2,898	1,797	1,873	1,776	1,827
Sales representatives, finance and business services .....	2,621	2,666	1,492	1,481	1,466	1,447	1,129	1,185	1,104	1,146
Sales representatives, commodities, except retail .....	1,407	1,543	1,047	1,140	1,036	1,139	360	404	356	393
Sales workers, retail and personal services .....	6,950	6,863	2,386	2,421	1,889	1,975	4,564	4,442	3,486	3,315
Sales-related occupations .....	71	112	21	28	21	27	50	84	49	82
Administrative support, including clerical .....	18,075	18,256	3,802	3,846	3,597	3,616	14,272	14,410	13,669	13,778
Supervisors .....	625	700	260	283	260	279	365	417	364	413
Computer equipment operators .....	399	358	167	155	163	148	232	202	218	198
Secretaries, stenographers, and typists .....	3,710	3,722	73	72	73	69	3,636	3,650	3,536	3,557
Financial records processing .....	2,248	2,186	165	156	157	138	2,083	2,030	2,057	1,992
Mail and message distributing .....	979	1,015	604	629	593	602	375	387	365	375
Other administrative support, including clerical .....	10,115	10,274	2,534	2,551	2,351	2,380	7,581	7,723	7,129	7,244
Service occupations .....	17,708	18,123	7,385	7,433	6,285	6,294	10,323	10,690	9,064	9,308
Private household .....	753	833	26	56	23	40	726	777	617	646
Protective service .....	2,456	2,468	2,024	2,055	1,950	1,990	432	412	362	328
Service, except private household and protective .....	14,499	14,823	5,334	5,322	4,312	4,263	9,165	9,501	8,085	8,334
Food service .....	6,043	6,196	2,662	2,674	1,891	1,906	3,381	3,523	2,618	2,690
Health service .....	2,285	2,600	293	320	278	307	1,992	2,280	1,906	2,189
Cleaning and building service .....	3,182	3,138	1,786	1,773	1,661	1,605	1,395	1,365	1,313	1,297
Personal service .....	2,989	2,888	593	556	482	445	2,396	2,333	2,247	2,158
Precision production, craft, and repair .....	14,551	14,799	13,160	13,571	12,796	13,151	1,391	1,227	1,328	1,193
Mechanics and repairers .....	4,690	4,986	4,481	4,766	4,372	4,616	209	221	204	221
Construction trades .....	5,638	5,725	5,464	5,601	5,281	5,368	174	124	154	110
Other precision production, craft, and repair .....	4,223	4,087	3,215	3,205	3,144	3,166	1,008	882	970	862
Operators, fabricators, and laborers .....	18,765	18,344	14,201	13,934	13,136	12,751	4,564	4,411	4,297	4,189
Machine operators, assemblers, and inspectors .....	7,935	7,715	4,940	4,800	4,790	4,579	2,996	2,915	2,903	2,825
Transportation and material moving occupations .....	5,492	5,346	5,009	4,838	4,908	4,728	483	508	463	490
Motor vehicle operators .....	4,125	3,975	3,697	3,552	3,604	3,484	427	423	411	404
Other transportation and material moving occupations .....	1,368	1,372	1,312	1,286	1,304	1,244	56	85	51	85
Handlers, equipment cleaners, helpers, and laborers .....	5,337	5,283	4,252	4,295	3,438	3,444	1,085	988	931	875
Construction laborers .....	894	832	863	797	735	698	31	34	31	33
Other handlers, equipment cleaners, helpers, and laborers .....	4,443	4,452	3,389	3,498	2,703	2,746	1,054	954	900	842
Farming, forestry, and fishing .....	3,950	3,944	3,220	3,207	2,882	2,790	730	737	637	655
Farm operators and managers .....	1,332	1,348	1,044	1,035	1,026	1,025	289	314	287	310
Other farming, forestry, and fishing occupations .....	2,618	2,596	2,176	2,172	1,856	1,766	442	424	350	346

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	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	130,463	132,265	70,619	71,618	59,843	60,646
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	28.6	29.1	26.8	27.4	30.7	31.0
Executive, administrative, and managerial .....	14.2	14.4	14.4	14.9	13.8	13.8
Professional specialty .....	14.4	14.6	12.3	12.5	16.9	17.2
Technical, sales, and administrative support .....	29.3	29.2	19.5	19.3	40.9	40.8
Technicians and related support .....	3.3	3.3	2.9	2.8	3.8	3.9
Sales occupations .....	12.1	12.1	11.2	11.2	13.2	13.2
Administrative support, including clerical .....	13.9	13.8	5.4	5.4	23.8	23.8
Service occupations .....	13.6	13.7	10.5	10.4	17.2	17.6
Private household .....	.6	.6	( <sup>1</sup> )	.1	1.2	1.3
Protective service .....	1.9	1.9	2.9	2.9	.7	.7
Service, except private household and protective .....	11.1	11.2	7.6	7.4	15.3	15.7
Precision production, craft, and repair .....	11.2	11.2	18.6	18.9	2.3	2.0
Operators, fabricators, and laborers .....	14.4	13.9	20.1	19.5	7.6	7.3
Machine operators, assemblers, and inspectors .....	6.1	5.8	7.0	6.7	5.0	4.8
Transportation and material moving occupations .....	4.2	4.0	7.1	6.8	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.0	6.0	6.0	1.8	1.6
Farming, forestry, and fishing .....	3.0	3.0	4.6	4.5	1.2	1.2
<b>White</b>						
Total, 16 years and over (thousands) .....	110,839	111,576	60,859	61,345	49,980	50,231
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	29.5	30.1	27.7	28.4	31.8	32.2
Executive, administrative, and managerial .....	14.8	15.1	15.1	15.7	14.4	14.4
Professional specialty .....	14.7	15.0	12.5	12.7	17.3	17.8
Technical, sales, and administrative support .....	29.4	29.2	19.5	19.4	41.4	41.2
Technicians and related support .....	3.3	3.2	2.9	2.7	3.8	3.9
Sales occupations .....	12.4	12.4	11.6	11.6	13.4	13.4
Administrative support, including clerical .....	13.7	13.6	5.0	5.1	24.2	24.0
Service occupations .....	12.5	12.6	9.5	9.4	16.2	16.6
Private household .....	.6	.7	( <sup>1</sup> )	.1	1.2	1.4
Protective service .....	1.7	1.7	2.7	2.7	.6	.6
Service, except private household and protective .....	10.2	10.2	6.7	6.6	14.4	14.6
Precision production, craft, and repair .....	11.6	11.7	19.4	19.6	2.2	2.0
Operators, fabricators, and laborers .....	13.7	13.1	19.1	18.3	7.0	6.7
Machine operators, assemblers, and inspectors .....	5.7	5.4	6.7	6.4	4.4	4.3
Transportation and material moving occupations .....	4.1	3.8	6.8	6.3	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.9	3.8	5.7	5.6	1.7	1.5
Farming, forestry, and fishing .....	3.3	3.3	4.9	4.8	1.4	1.4
<b>Black</b>						
Total, 16 years and over (thousands) .....	13,854	14,709	6,618	7,034	7,236	7,675
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	19.8	20.1	15.9	16.3	23.4	23.6
Executive, administrative, and managerial .....	9.1	9.4	8.4	8.4	9.8	10.2
Professional specialty .....	10.7	10.8	7.5	7.9	13.6	13.4
Technical, sales, and administrative support .....	28.0	28.5	17.1	16.5	38.0	39.5
Technicians and related support .....	2.9	2.9	2.3	2.1	3.5	3.7
Sales occupations .....	9.1	9.6	6.5	7.5	11.5	11.5
Administrative support, including clerical .....	16.0	16.0	8.3	6.9	23.1	24.3
Service occupations .....	21.6	21.7	18.1	17.9	24.8	25.1
Private household .....	.8	.5	-	-	1.6	.9
Protective service .....	3.1	3.1	4.9	4.9	1.5	1.5
Service, except private household and protective .....	17.6	18.0	13.2	12.9	21.7	22.7
Precision production, craft, and repair .....	8.7	8.6	15.2	16.1	2.7	1.7
Operators, fabricators, and laborers .....	20.4	19.7	31.0	30.7	10.8	9.7
Machine operators, assemblers, and inspectors .....	8.6	7.8	9.8	9.2	7.5	6.4
Transportation and material moving occupations .....	6.0	6.3	11.5	11.9	1.0	1.2
Handlers, equipment cleaners, helpers, and laborers .....	5.9	5.7	9.7	9.5	2.4	2.1
Farming, forestry, and fishing .....	1.4	1.4	2.7	2.5	.2	.4

<sup>1</sup> 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.

A-21. Employed persons by industry and occupation

(In thousands)

Industry	June 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 <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	3,718	74	133	53	32	153	-	29	43	20	39	17	3,125
Mining .....	666	122	61	17	15	63	-	5	203	38	118	24	2
Construction .....	8,685	1,391	145	40	49	394	-	43	5,020	86	550	931	37
Manufacturing .....	20,728	3,073	1,963	641	723	2,047	-	286	4,012	6,148	717	1,048	70
Durable goods .....	12,574	1,823	1,305	451	309	1,165	-	141	2,890	3,473	401	554	63
Nondurable goods .....	8,155	1,250	658	190	414	882	-	145	1,122	2,675	317	494	7
Transportation and public utilities .....	9,385	1,279	549	342	266	2,288	-	277	1,403	135	2,244	594	7
Wholesale and retail trade .....	27,471	2,549	591	240	11,481	2,161	-	5,355	1,529	343	1,108	2,003	111
Wholesale trade .....	4,974	583	141	38	2,000	713	-	67	354	124	522	358	75
Retail trade .....	22,496	1,966	451	201	9,482	1,447	-	5,288	1,175	220	586	1,644	36
Finance, insurance, and real estate .....	8,360	2,396	292	148	2,121	2,803	-	336	159	18	16	17	55
Services .....	47,344	6,817	14,647	2,615	1,269	7,141	833	9,302	2,224	915	494	590	497
Private households .....	976	10	5	-	2	23	833	43	7	-	4	6	41
Other service industries .....	46,369	6,806	14,642	2,615	1,267	7,118	-	9,259	2,217	915	490	584	456
Professional services .....	31,035	4,098	12,677	2,216	225	5,140	-	5,531	478	193	239	138	100
Public administration .....	5,906	1,373	995	275	22	1,207	-	1,658	205	12	60	60	40

<sup>1</sup> Includes protective service, 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**

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

(In thousands)

Age and sex	June 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 .....	2,145	1,524	49	119,370	101,151	968	100,183	18,220	9,068	108
16 to 19 years .....	323	49	20	7,460	7,098	175	6,923	363	36	17
16 to 17 years .....	169	33	7	2,833	2,706	98	2,608	127	10	12
18 to 19 years .....	155	16	13	4,627	4,391	77	4,315	236	25	4
20 to 24 years .....	282	51	9	12,349	11,366	97	11,269	982	262	8
25 to 34 years .....	549	209	7	29,003	25,331	178	25,153	3,671	1,599	20
35 to 44 years .....	492	300	2	32,563	27,331	187	27,144	5,232	2,796	30
45 to 54 years .....	260	370	5	24,469	19,040	171	18,869	5,429	2,361	17
55 to 64 years .....	171	278	-	10,839	8,695	85	8,610	2,144	1,418	15
65 years and over .....	69	268	5	2,688	2,290	76	2,214	397	597	1
Men, 16 years and over .....	1,634	1,158	38	63,232	55,078	111	54,967	8,154	5,530	26
16 to 19 years .....	243	42	19	3,754	3,587	39	3,548	167	23	7
16 to 17 years .....	137	28	5	1,417	1,350	29	1,321	67	8	3
18 to 19 years .....	106	14	13	2,337	2,237	10	2,227	100	16	4
20 to 24 years .....	234	37	9	6,520	6,076	16	6,060	443	136	6
25 to 34 years .....	419	157	7	15,754	14,053	17	14,036	1,701	860	5
35 to 44 years .....	358	224	-	17,364	15,064	7	15,057	2,299	1,688	4
45 to 54 years .....	195	285	-	12,589	10,219	11	10,208	2,370	1,518	3
55 to 64 years .....	124	204	-	5,826	4,835	9	4,827	991	890	-
65 years and over .....	62	210	3	1,427	1,244	12	1,232	183	416	1
Women, 16 years and over .....	510	367	12	56,138	46,072	857	45,216	10,065	3,538	82
16 to 19 years .....	80	7	2	3,707	3,510	135	3,375	196	12	10
16 to 17 years .....	32	6	2	1,416	1,356	69	1,287	60	3	10
18 to 19 years .....	49	2	-	2,290	2,154	66	2,088	136	10	-
20 to 24 years .....	48	14	-	5,829	5,290	81	5,209	539	126	3
25 to 34 years .....	130	51	1	13,249	11,278	162	11,117	1,971	739	15
35 to 44 years .....	133	76	2	15,200	12,267	180	12,087	2,933	1,108	26
45 to 54 years .....	65	85	5	11,880	8,821	159	8,662	3,059	843	14
55 to 64 years .....	47	75	-	5,013	3,860	76	3,783	1,154	528	15
65 years and over .....	7	58	2	1,260	1,046	64	983	214	182	-

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

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

Hours of work	June 1998					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	125,147	3,540	121,606	100.0	100.0	100.0
1 to 34 hours .....	29,522	975	28,547	23.6	27.5	23.5
1 to 4 hours .....	1,429	65	1,364	1.1	1.8	1.1
5 to 14 hours .....	4,326	199	4,127	3.5	5.6	3.4
15 to 29 hours .....	14,612	474	14,138	11.7	13.4	11.6
30 to 34 hours .....	9,154	237	8,917	7.3	6.7	7.3
35 hours and over .....	95,625	2,565	93,060	76.4	72.5	76.5
35 to 39 hours .....	8,871	205	8,666	7.1	5.8	7.1
40 hours .....	46,620	941	45,679	37.3	26.6	37.6
41 hours and over .....	40,133	1,419	38,714	32.1	40.1	31.8
41 to 48 hours .....	14,861	230	14,632	11.9	6.5	12.0
49 to 59 hours .....	14,399	402	13,997	11.5	11.4	11.5
60 hours and over .....	10,873	787	10,086	8.7	22.2	8.3
Average hours, total at work .....	39.7	42.7	39.6	-	-	-
Average hours, persons who usually work full time .....	43.4	48.8	43.2	-	-	-

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	June 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 .....	29,522	9,749	19,772	28,547	9,466	19,081
Economic reasons .....	4,033	1,451	2,582	3,871	1,385	2,486
Slack work or business conditions .....	2,159	1,047	1,112	2,086	1,008	1,078
Could only find part-time work .....	1,431	-	1,431	1,373	-	1,373
Seasonal work .....	164	124	39	140	106	34
Job started or ended during week .....	280	280	-	271	271	-
Noneconomic reasons .....	25,489	8,298	17,191	24,676	8,081	16,595
Child-care problems .....	918	71	847	900	71	829
Other family or personal obligations .....	5,528	794	4,734	5,338	764	4,573
Health or medical limitations .....	724	-	724	676	-	676
In school or training .....	5,047	141	4,906	4,910	133	4,777
Retired or Social Security limit on earnings .....	1,737	-	1,737	1,617	-	1,617
Vacation or personal day .....	4,166	4,166	-	4,115	4,115	-
Holiday, legal or religious .....	101	101	-	99	99	-
Weather-related curtailment .....	439	439	-	364	364	-
All other reasons .....	6,828	2,586	4,242	6,657	2,534	4,123
Average hours:						
Economic reasons .....	22.5	23.3	22.0	22.5	23.3	22.0
Other reasons .....	21.5	24.5	20.1	21.6	24.5	20.2

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-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	June 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 .....	121,606	28,547	3,871	8,081	16,595	93,060	39.6	43.2
Wage and salary workers .....	112,974	25,809	3,517	7,522	14,770	87,165	39.6	43.0
Mining .....	610	43	9	24	10	567	48.3	48.8
Construction .....	6,934	1,101	303	506	292	5,832	41.6	42.9
Manufacturing .....	19,496	2,158	264	1,247	647	17,338	42.5	43.3
Durable goods .....	11,889	1,184	134	757	293	10,704	42.9	43.5
Nondurable goods .....	7,607	974	130	490	354	6,633	41.8	43.0
Transportation and public utilities .....	8,459	1,176	143	503	530	7,283	42.7	44.5
Wholesale and retail trade .....	24,700	7,986	1,209	1,174	5,602	16,714	37.7	43.7
Finance, insurance, and real estate .....	7,472	1,240	86	488	666	6,233	40.7	42.7
Service industries .....	39,602	11,198	1,446	2,974	6,778	28,404	37.8	42.1
Private households .....	930	539	104	34	401	391	29.2	43.2
All other industries .....	38,672	10,659	1,343	2,940	6,377	28,012	38.0	42.0
Public administration .....	5,700	906	55	605	246	4,794	41.0	42.2
Self-employed workers .....	8,524	2,678	353	556	1,768	5,847	40.2	47.0
Unpaid family workers .....	108	60	1	3	57	48	36.0	( <sup>1</sup> )

<sup>1</sup> 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-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	June 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			
<b>TOTAL</b>								
Total, 16 years and over .....	121,606	28,547	3,871	8,081	16,595	93,060	39.6	43.2
16 to 19 years .....	7,174	4,587	577	285	3,726	2,587	27.6	39.5
16 to 17 years .....	2,723	2,250	178	84	1,988	473	21.8	37.4
18 to 19 years .....	4,451	2,337	399	201	1,738	2,114	31.1	40.0
20 years and over .....	114,432	23,959	3,294	7,796	12,869	90,473	40.4	43.3
20 to 24 years .....	12,182	3,545	721	751	2,073	8,637	37.1	41.2
25 years and over .....	102,250	20,414	2,573	7,045	10,796	81,836	40.8	43.5
25 to 54 years .....	87,816	15,952	2,258	6,054	7,640	71,865	41.3	43.6
55 years and over .....	14,434	4,463	315	991	3,156	9,971	37.3	42.9
Men, 16 years and over .....	66,074	10,502	1,770	3,898	4,835	55,572	42.6	44.7
16 to 19 years .....	3,615	2,130	251	175	1,704	1,485	29.1	40.0
16 to 17 years .....	1,353	1,053	86	53	914	300	23.8	38.6
18 to 19 years .....	2,262	1,077	165	122	790	1,186	32.3	40.4
20 years and over .....	62,459	8,372	1,519	3,723	3,131	54,086	43.4	44.9
20 to 24 years .....	6,504	1,526	378	399	749	4,978	39.0	42.1
25 years and over .....	55,955	6,847	1,141	3,324	2,382	49,108	43.9	45.2
25 to 54 years .....	47,912	4,977	980	2,845	1,152	42,935	44.5	45.3
55 years and over .....	8,043	1,870	160	479	1,230	6,173	40.1	44.3
Women, 16 years and over .....	55,532	18,044	2,101	4,183	11,761	37,488	36.1	41.0
16 to 19 years .....	3,559	2,457	326	110	2,022	1,101	26.0	38.7
16 to 17 years .....	1,370	1,197	92	31	1,074	173	19.9	35.3
18 to 19 years .....	2,189	1,261	234	79	948	928	29.8	39.5
20 years and over .....	51,973	15,587	1,775	4,073	9,739	36,387	36.8	41.1
20 to 24 years .....	5,678	2,019	343	352	1,325	3,659	35.0	40.1
25 years and over .....	46,295	13,568	1,433	3,721	8,414	32,728	37.0	41.2
25 to 54 years .....	39,904	10,975	1,278	3,209	6,488	28,930	37.6	41.3
55 years and over .....	6,391	2,593	155	512	1,926	3,798	33.8	40.7
<b>Race</b>								
White, 16 years and over .....	102,108	24,253	3,015	6,831	14,407	77,855	39.7	43.4
Men .....	56,340	8,819	1,358	3,341	4,120	47,521	42.9	45.0
Women .....	45,768	15,434	1,657	3,490	10,286	30,334	35.9	41.1
Black, 16 years and over .....	13,883	3,123	635	950	1,538	10,760	38.6	41.5
Men .....	6,679	1,191	306	412	473	5,488	40.7	42.8
Women .....	7,204	1,932	329	538	1,065	5,272	36.6	40.1
<b>Marital status</b>								
Men, 16 years and over:								
Married, spouse present .....	39,220	4,494	625	2,328	1,541	34,726	44.4	45.6
Widowed, divorced, or separated .....	8,105	1,137	246	507	384	6,967	43.1	44.5
Single (never married) .....	18,749	4,870	899	1,062	2,909	13,879	38.6	42.8
Women, 16 years and over:								
Married, spouse present .....	29,032	9,631	777	2,285	6,569	19,402	35.9	40.9
Widowed, divorced, or separated .....	11,362	2,955	475	1,020	1,461	8,407	38.1	41.4
Single (never married) .....	15,138	5,458	849	878	3,731	9,680	35.0	41.0

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	June 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 <sup>1</sup> .....	121,372	28,478	3,849	8,050	16,579	92,894	39.6	43.2
Managerial and professional specialty .....	35,577	6,605	604	2,614	3,387	28,973	41.9	44.5
Executive, administrative, and managerial .....	18,325	2,436	153	1,124	1,159	15,889	44.1	45.9
Professional specialty .....	17,252	4,169	451	1,489	2,228	13,084	39.6	42.9
Technical, sales, and administrative support .....	36,887	10,027	1,062	2,389	6,575	26,860	38.0	42.3
Technicians and related support .....	4,164	782	49	304	429	3,382	40.1	42.1
Sales occupations .....	15,305	4,511	561	757	3,193	10,794	39.1	44.9
Administrative support, including clerical .....	17,418	4,733	452	1,328	2,954	12,685	36.5	40.2
Service occupations .....	17,127	6,552	1,028	925	4,599	10,574	35.2	42.1
Private household .....	798	480	93	29	358	318	28.9	43.8
Protective service .....	2,358	434	42	175	216	1,924	42.1	44.7
Service, except private household and protective .....	13,970	5,639	893	721	4,025	8,332	34.3	41.4
Precision production, craft, and repair .....	14,220	1,861	438	956	467	12,359	42.3	43.3
Operators, fabricators, and laborers .....	17,561	3,433	717	1,166	1,551	14,128	40.7	43.2
Machine operators, assemblers, and inspectors .....	7,391	1,061	202	479	381	6,330	40.9	42.3
Transportation and material moving occupations .....	5,091	814	166	317	332	4,276	44.2	46.4
Handlers, equipment cleaners, helpers, and laborers .....	5,079	1,557	349	370	838	3,522	36.7	41.1
Men, 16 years and over <sup>1</sup> .....	65,699	10,360	1,744	3,872	4,744	55,339	42.6	44.8
Managerial and professional specialty .....	18,691	2,201	249	1,090	862	16,489	45.0	46.5
Executive, administrative, and managerial .....	10,334	929	86	481	362	9,405	46.6	47.7
Professional specialty .....	8,357	1,273	164	609	500	7,084	43.1	45.0
Technical, sales, and administrative support .....	13,388	2,236	265	707	1,264	11,152	42.5	45.1
Technicians and related support .....	1,940	219	7	118	94	1,721	42.5	43.5
Sales occupations .....	7,735	1,347	155	351	841	6,388	43.9	47.1
Administrative support, including clerical .....	3,712	670	103	238	329	3,042	39.7	42.1
Service occupations .....	7,150	1,939	333	376	1,231	5,211	38.6	43.4
Private household .....	56	28	-	-	28	27	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,977	304	30	155	119	1,673	43.5	45.4
Service, except private household and protective .....	5,117	1,607	303	221	1,083	3,511	36.8	42.3
Precision production, craft, and repair .....	13,068	1,642	415	844	383	11,427	42.6	43.5
Operators, fabricators, and laborers .....	13,402	2,342	481	855	1,006	11,060	41.6	43.9
Machine operators, assemblers, and inspectors .....	4,606	530	96	288	145	4,076	42.1	43.0
Transportation and material moving occupations .....	4,647	641	127	273	240	4,006	45.0	46.7
Handlers, equipment cleaners, helpers, and laborers .....	4,149	1,172	258	294	620	2,978	37.4	41.3
Women, 16 years and over <sup>1</sup> .....	55,672	18,118	2,104	4,178	11,835	37,555	36.1	41.0
Managerial and professional specialty .....	16,887	4,404	354	1,523	2,526	12,483	38.5	41.9
Executive, administrative, and managerial .....	7,991	1,508	67	644	797	6,483	40.9	43.3
Professional specialty .....	8,896	2,896	287	880	1,729	6,000	36.3	40.5
Technical, sales, and administrative support .....	23,499	7,790	797	1,682	5,311	15,709	35.4	40.4
Technicians and related support .....	2,224	563	42	186	335	1,661	37.9	40.7
Sales occupations .....	7,570	3,164	407	406	2,352	4,405	34.3	41.8
Administrative support, including clerical .....	13,706	4,063	349	1,090	2,624	9,642	35.6	39.6
Service occupations .....	9,976	4,613	695	550	3,369	5,363	32.7	40.9
Private household .....	742	451	93	29	330	291	28.6	43.3
Protective service .....	381	130	12	21	97	251	34.4	40.5
Service, except private household and protective .....	8,853	4,032	590	500	2,942	4,821	32.9	40.8
Precision production, craft, and repair .....	1,151	220	23	113	84	932	39.3	41.1
Operators, fabricators, and laborers .....	4,159	1,091	235	311	545	3,068	37.6	40.9
Machine operators, assemblers, and inspectors .....	2,785	532	105	191	236	2,253	39.0	41.0
Transportation and material moving occupations .....	444	174	39	44	91	270	36.5	41.9
Handlers, equipment cleaners, helpers, and laborers .....	929	385	91	76	218	544	33.8	40.0

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

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

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

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	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
Total, 16 years and over .....	3,693	3,326	5.0	4.4	3,401	3,207	5.4	5.0
Married, spouse present .....	1,080	885	2.5	2.0	1,048	972	3.1	2.9
Widowed, divorced, or separated .....	477	461	5.3	5.0	663	567	5.2	4.5
Single (never married) .....	2,135	1,980	9.8	8.9	1,691	1,668	9.8	9.4
White, 16 years and over .....	2,637	2,471	4.2	3.9	2,356	2,251	4.5	4.3
Married, spouse present .....	891	699	2.3	1.8	865	795	3.0	2.7
Widowed, divorced, or separated .....	329	348	4.5	4.6	487	376	4.9	3.8
Single (never married) .....	1,417	1,424	8.0	7.9	1,004	1,080	7.7	8.1
Black, 16 years and over .....	866	666	11.6	8.7	885	807	10.9	9.5
Married, spouse present .....	128	112	3.9	3.4	135	115	5.4	4.4
Widowed, divorced, or separated .....	123	95	9.4	7.5	157	169	7.2	7.3
Single (never married) .....	614	459	21.2	14.7	594	523	17.1	14.7
Total, 25 years and over .....	2,138	1,860	3.4	3.0	2,040	1,869	3.9	3.5
Married, spouse present .....	1,023	830	2.4	2.0	930	853	2.9	2.7
Widowed, divorced, or separated .....	454	453	5.2	5.1	602	526	4.9	4.3
Single (never married) .....	661	577	6.0	5.1	509	490	6.2	5.8
White, 25 years and over .....	1,563	1,406	2.9	2.6	1,449	1,307	3.3	3.0
Married, spouse present .....	852	653	2.3	1.8	767	690	2.7	2.5
Widowed, divorced, or separated .....	310	340	4.4	4.6	436	336	4.5	3.5
Single (never married) .....	402	414	4.6	4.7	246	281	4.2	4.8
Black, 25 years and over .....	448	334	7.4	5.4	500	462	7.6	6.7
Married, spouse present .....	110	106	3.5	3.3	114	103	4.8	4.1
Widowed, divorced, or separated .....	120	95	9.3	7.6	148	167	6.9	7.4
Single (never married) .....	218	133	13.3	7.7	237	192	11.3	9.0

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



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
Total, 16 years and over <sup>1</sup> .....	7,094	6,534	5.2	4.7	5.0	4.4	5.4	5.0
Managerial and professional specialty .....	814	730	2.1	1.9	2.0	1.7	2.3	2.1
Executive, administrative, and managerial .....	324	322	1.7	1.7	1.7	1.5	1.8	1.9
Professional specialty .....	490	407	2.5	2.1	2.3	1.9	2.7	2.2
Technical, sales, and administrative support .....	1,776	1,645	4.4	4.1	4.0	3.5	4.7	4.4
Technicians and related support .....	111	90	2.5	2.0	2.4	2.4	2.6	1.7
Sales occupations .....	898	799	5.4	4.8	4.1	3.3	6.6	6.2
Administrative support, including clerical .....	767	755	4.1	4.0	4.7	4.6	3.9	3.8
Service occupations .....	1,352	1,260	7.1	6.5	7.2	6.5	7.0	6.5
Private household .....	68	69	8.3	7.6	( <sup>2</sup> )	( <sup>2</sup> )	7.6	7.3
Protective service .....	83	79	3.3	3.1	2.8	3.0	5.2	3.5
Service, except private household and protective .....	1,201	1,112	7.7	7.0	8.6	7.7	7.1	6.5
Precision production, craft, and repair .....	640	572	4.2	3.7	4.2	3.7	4.6	3.6
Mechanics and repairers .....	145	166	3.0	3.2	3.1	3.3	1.3	1.8
Construction trades .....	353	286	5.9	4.8	5.9	4.7	5.2	6.1
Other precision production, craft, and repair .....	142	121	3.2	2.9	2.6	2.6	5.1	3.6
Operators, fabricators, and laborers .....	1,395	1,253	6.9	6.4	6.3	5.6	8.7	8.8
Machine operators, assemblers, and inspectors .....	521	512	6.2	6.2	4.6	4.9	8.6	8.3
Transportation and material moving occupations .....	255	234	4.4	4.2	4.4	3.9	4.7	7.3
Handlers, equipment cleaners, helpers, and laborers .....	619	507	10.4	8.8	10.3	8.2	10.8	11.1
Construction laborers .....	127	98	12.4	10.6	11.7	10.9	( <sup>2</sup> )	( <sup>2</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	492	409	10.0	8.4	9.9	7.6	10.1	11.4
Farming, forestry, and fishing .....	275	222	6.5	5.3	6.1	4.9	8.1	7.1
No previous work experience .....	814	832	-	-	-	-	-	-
16 to 19 years .....	587	649	-	-	-	-	-	-
20 to 24 years .....	107	113	-	-	-	-	-	-
25 years and over .....	120	70	-	-	-	-	-	-

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

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

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

A-30. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
Total, 16 years and over .....	7,094	6,534	5.2	4.7	5.0	4.4	5.4	5.0
Nonagricultural private wage and salary workers .....	5,157	4,868	4.9	4.6	4.7	4.4	5.2	4.8
Mining .....	15	22	2.2	3.2	1.6	3.7	6.1	.4
Construction .....	498	446	6.9	6.3	7.1	6.5	5.5	4.4
Manufacturing .....	879	741	4.1	3.5	3.5	2.8	5.4	5.2
Durable goods .....	412	342	3.3	2.7	2.9	2.2	4.5	4.1
Lumber and wood products .....	48	38	5.7	4.6	5.1	3.9	8.4	7.3
Furniture and fixtures .....	25	19	3.7	2.7	2.6	1.6	6.9	5.3
Stone, clay, and glass products .....	19	9	2.9	1.5	2.1	1.1	5.5	3.1
Primary metal industries .....	32	24	4.1	2.7	4.3	1.7	2.9	8.5
Fabricated metal products .....	45	44	3.3	3.2	2.8	3.6	5.0	2.2
Machinery and computing equipment .....	88	66	3.5	2.6	3.1	2.4	4.5	3.3
Electrical machinery, equipment, and supplies .....	58	35	3.1	1.9	2.9	1.3	3.3	2.9
Transportation equipment .....	61	56	2.6	2.3	2.2	1.9	3.7	3.5
Automobiles .....	25	38	1.9	2.8	1.5	2.7	3.0	3.1
Other transportation equipment .....	36	18	3.5	1.6	3.2	.8	4.8	3.9
Professional and photographic equipment .....	5	15	.7	1.8	.8	.6	.5	3.7
Other durable goods industries .....	32	37	4.6	5.8	1.3	3.9	9.2	8.0
Nondurable goods .....	467	399	5.2	4.8	4.5	3.8	6.3	6.3
Food and kindred products .....	126	99	6.9	5.8	5.1	4.2	10.3	9.3
Textile mill products .....	27	43	4.3	6.9	3.0	4.3	5.9	9.5
Apparel and other textile products .....	108	76	10.7	8.6	8.5	7.0	11.4	9.3
Paper and allied products .....	20	22	2.8	3.3	3.1	2.0	1.7	6.3
Printing and publishing .....	84	66	4.4	3.7	5.9	3.6	2.2	3.8
Chemicals and allied products .....	39	40	2.6	2.9	3.5	2.9	1.1	2.8
Rubber and miscellaneous plastics products .....	51	24	5.2	2.5	3.4	1.8	8.9	3.9
Other nondurable goods industries .....	11	30	3.0	8.3	3.5	9.4	2.3	6.1
Transportation and public utilities .....	214	254	2.9	3.4	2.8	3.2	3.1	3.8
Transportation .....	150	170	3.2	3.7	3.0	3.5	3.7	4.3
Communications and other public utilities .....	64	84	2.3	2.9	2.2	2.7	2.3	3.2
Wholesale and retail trade .....	1,751	1,554	6.5	5.7	5.7	5.1	7.3	6.4
Wholesale trade .....	128	202	2.7	4.2	1.9	3.4	4.6	5.9
Retail trade .....	1,624	1,351	7.3	6.1	6.9	5.6	7.6	6.5
Finance, insurance, and real estate .....	194	163	2.5	2.1	2.9	2.1	2.3	2.2
Service industries .....	1,606	1,688	4.8	4.8	5.1	5.3	4.6	4.5
Professional services .....	633	610	3.2	3.0	3.1	2.9	3.3	3.0
Other service industries .....	973	1,078	7.2	7.5	6.8	7.3	7.6	7.7
Agricultural wage and salary workers .....	191	141	7.9	6.2	7.7	5.5	8.7	8.2
Government, self-employed, and unpaid family workers .....	932	693	3.1	2.3	3.1	1.9	3.2	2.8
No previous work experience .....	814	832	-	-	-	-	-	-

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	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	7,094	6,534	2,721	2,437	2,645	2,449	1,728	1,648	4,994	4,721	1,751	1,473
Job losers and persons who completed temporary jobs .....	2,878	2,628	1,565	1,396	1,143	1,068	170	164	2,133	1,934	617	558
On temporary layoff .....	788	713	391	304	336	342	61	67	638	571	126	105
Not on temporary layoff .....	2,090	1,915	1,174	1,092	807	726	109	97	1,496	1,362	491	453
Permanent job losers .....	1,448	1,289	794	747	590	486	64	56	1,036	920	330	288
Persons who completed temporary jobs .....	642	626	380	345	217	240	45	41	460	442	161	165
Job leavers .....	774	714	385	332	279	310	111	73	601	557	142	124
Reentrants .....	2,628	2,360	694	642	1,074	955	860	763	1,749	1,659	746	586
New entrants .....	814	832	77	68	149	116	587	649	510	572	246	205
<b>PERCENT DISTRIBUTION</b>												
Job losers and persons who completed temporary jobs .....	40.6	40.2	57.5	57.3	43.2	43.6	9.8	9.9	42.7	41.0	35.2	37.9
On temporary layoff .....	11.1	10.9	14.4	12.5	12.7	14.0	3.5	4.0	12.8	12.1	7.2	7.1
Not on temporary layoff .....	29.5	29.3	43.1	44.8	30.5	29.6	6.3	5.9	30.0	28.9	28.0	30.8
Job leavers .....	10.9	10.9	14.1	13.6	10.6	12.6	6.4	4.4	12.0	11.8	8.1	8.4
Reentrants .....	37.0	36.1	25.5	26.3	40.6	39.0	49.8	46.3	35.0	35.1	42.6	39.8
New entrants .....	11.5	12.7	2.8	2.8	5.6	4.7	34.0	39.4	10.2	12.1	14.1	13.9
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers and persons who completed temporary jobs .....	2.1	1.9	2.2	2.0	1.9	1.8	1.9	1.7	1.8	1.7	4.0	3.4
Job leavers .....	.6	.5	.6	.5	.5	.5	1.2	.8	.5	.5	.9	.8
Reentrants .....	1.9	1.7	1.0	.9	1.8	1.6	9.5	8.0	1.5	1.4	4.8	3.6
New entrants .....	.6	.6	.1	.1	.3	.2	6.5	6.8	.4	.5	1.6	1.3

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

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

(Percent distribution)

Reason, sex, and age	June 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 .....	6,534	100.0	48.6	27.6	23.9	12.4	11.5
Job losers and persons who completed temporary jobs .....	2,628	100.0	43.9	28.8	27.3	15.4	11.9
On temporary layoff .....	713	100.0	66.9	20.0	13.1	8.5	4.5
Not on temporary layoff .....	1,915	100.0	35.4	32.1	32.5	18.0	14.6
Permanent job losers .....	1,289	100.0	31.4	32.5	36.1	19.7	16.4
Persons who completed temporary jobs .....	626	100.0	43.6	31.1	25.3	14.4	10.9
Job leavers .....	714	100.0	52.8	28.0	19.2	10.9	8.3
Reentrants .....	2,360	100.0	48.2	26.6	25.2	11.4	13.8
New entrants .....	832	100.0	60.6	26.1	13.3	6.7	6.7
Men, 20 years and over .....	2,437	100.0	42.0	26.1	32.0	15.5	16.4
Job losers and persons who completed temporary jobs .....	1,396	100.0	39.9	27.6	32.5	19.0	13.5
On temporary layoff .....	304	100.0	64.5	18.6	16.9	12.8	4.1
Not on temporary layoff .....	1,092	100.0	33.1	30.1	36.8	20.7	16.1
Permanent job losers .....	747	100.0	33.0	28.5	38.5	22.0	16.5
Persons who completed temporary jobs .....	345	100.0	33.1	33.8	33.0	17.9	15.2
Job leavers .....	332	100.0	51.1	26.8	22.1	9.7	12.5
Reentrants .....	642	100.0	40.9	22.2	36.8	12.4	24.4
New entrants .....	68	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 20 years and over .....	2,449	100.0	45.9	29.4	24.7	13.5	11.2
Job losers and persons who completed temporary jobs .....	1,068	100.0	46.0	29.9	24.1	12.7	11.4
On temporary layoff .....	342	100.0	67.0	20.8	12.2	6.4	5.8
Not on temporary layoff .....	726	100.0	36.1	34.2	29.7	15.7	14.0
Permanent job losers .....	486	100.0	27.1	36.9	36.0	18.4	17.6
Persons who completed temporary jobs .....	240	100.0	54.2	28.8	17.0	10.3	6.6
Job leavers .....	310	100.0	51.4	28.4	20.2	14.3	5.9
Reentrants .....	955	100.0	44.7	29.0	26.3	14.0	12.3
New entrants .....	116	100.0	41.1	30.3	28.6	14.7	13.8
Both sexes, 16 to 19 years .....	1,648	100.0	62.3	27.0	10.7	5.9	4.8
Job losers and persons who completed temporary jobs .....	164	100.0	65.1	31.4	3.5	2.2	1.2
On temporary layoff .....	67	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not on temporary layoff .....	97	100.0	56.6	37.6	5.8	3.8	2.1
Permanent job losers .....	56	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Persons who completed temporary jobs .....	41	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Job leavers .....	73	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Reentrants .....	763	100.0	58.9	27.1	14.0	7.4	6.6
New entrants .....	649	100.0	65.2	25.2	9.6	5.6	4.0

<sup>1</sup> 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	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
Total, 16 years and over .....	7,094	6,534	100.0	100.0	5,867	5,299	100.0	100.0
Less than 5 weeks .....	3,210	3,174	45.3	48.6	2,526	2,427	43.1	45.8
5 to 14 weeks .....	1,895	1,801	26.7	27.6	1,530	1,477	26.1	27.9
5 to 10 weeks .....	1,427	1,376	20.1	21.1	1,122	1,107	19.1	20.9
11 to 14 weeks .....	468	425	6.6	6.5	408	370	7.0	7.0
15 weeks and over .....	1,989	1,559	28.0	23.9	1,811	1,395	30.9	26.3
15 to 26 weeks .....	973	808	13.7	12.4	878	733	15.0	13.8
27 weeks and over .....	1,016	751	14.3	11.5	933	662	15.9	12.5
27 to 51 weeks .....	460	309	6.5	4.7	428	269	7.3	5.1
52 weeks and over .....	556	443	7.8	6.8	505	393	8.6	7.4
Average (mean) duration, in weeks .....	14.2	12.8	-	-	15.2	13.8	-	-
Median duration, in weeks .....	5.8	4.9	-	-	6.5	5.7	-	-

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

Sex, age, race, and marital status	June 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			
<b>TOTAL</b>									
Total, 16 years and over .....	6,534	3,174	1,801	1,559	808	751	12.8	4.9	
16 to 19 years .....	1,648	1,027	445	176	97	78	7.0	3.4	
20 to 24 years .....	1,157	649	323	185	99	86	10.3	4.0	
25 to 34 years .....	1,388	590	377	421	226	195	14.4	6.8	
35 to 44 years .....	1,184	491	351	342	177	165	14.3	6.7	
45 to 54 years .....	739	266	215	258	127	131	18.7	8.4	
55 to 64 years .....	325	107	62	155	76	79	25.8	13.3	
65 years and over .....	94	44	29	21	5	16	14.3	5.3	
<b>Men, 16 years and over .....</b>									
16 to 19 years .....	3,326	1,581	881	865	420	445	14.1	5.3	
16 to 19 years .....	889	559	245	86	41	45	6.8	3.3	
20 to 24 years .....	577	298	175	104	52	52	12.2	4.4	
25 to 34 years .....	639	270	168	201	88	113	16.0	7.3	
35 to 44 years .....	571	238	139	194	96	98	16.6	7.6	
45 to 54 years .....	428	133	105	189	98	91	21.9	10.1	
55 to 64 years .....	173	53	38	82	43	38	23.9	13.4	
65 years and over .....	49	29	11	9	1	8	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Women, 16 years and over .....</b>									
16 to 19 years .....	3,207	1,593	920	694	388	307	11.5	4.6	
16 to 19 years .....	759	468	200	90	56	34	7.3	3.5	
20 to 24 years .....	579	351	148	81	47	34	8.4	3.8	
25 to 34 years .....	749	320	209	221	138	83	13.0	6.3	
35 to 44 years .....	612	252	212	148	81	67	12.2	6.1	
45 to 54 years .....	311	132	110	69	29	40	14.3	5.8	
55 to 64 years .....	152	54	24	73	33	41	27.9	13.3	
65 years and over .....	45	15	18	12	4	9	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Race</b>									
<b>White, 16 years and over .....</b>									
Men .....	4,721	2,413	1,291	1,017	549	468	11.8	4.4	
Men .....	2,471	1,209	653	608	317	291	13.3	4.8	
Women .....	2,251	1,204	637	410	232	178	10.1	4.2	
<b>Black, 16 years and over .....</b>									
Men .....	1,473	612	435	425	208	218	15.2	7.0	
Men .....	666	294	191	181	71	110	15.0	7.1	
Women .....	807	318	244	244	137	108	15.3	6.8	
<b>Marital status</b>									
<b>Men, 16 years and over:</b>									
Married, spouse present .....	885	330	232	323	176	147	16.9	8.8	
Widowed, divorced, or separated .....	461	201	99	161	81	80	18.9	7.0	
Single (never married) .....	1,980	1,050	550	380	163	217	11.7	4.2	
<b>Women, 16 years and over:</b>									
Married, spouse present .....	972	493	267	213	123	90	11.2	4.4	
Widowed, divorced, or separated .....	567	189	215	163	79	84	15.8	7.7	
Single (never married) .....	1,668	911	439	318	186	133	10.3	4.1	

<sup>1</sup> 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.

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

Occupation and industry	June 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			
<b>OCCUPATION</b>									
Managerial and professional specialty .....	730	361	179	190	100	89	13.1	4.6	
Technical, sales, and administrative support .....	1,645	769	494	382	201	181	12.6	5.3	
Service occupations .....	1,260	649	316	295	147	148	12.6	4.4	
Precision production, craft, and repair .....	572	238	174	160	88	72	14.9	6.8	
Operators, fabricators, and laborers .....	1,253	531	351	371	191	180	15.0	7.1	
Farming, forestry, and fishing .....	222	116	63	43	23	21	10.6	4.3	
<b>INDUSTRY<sup>1</sup></b>									
Agriculture .....	141	81	31	30	12	17	11.6	3.7	
Construction .....	454	186	130	138	81	57	14.6	7.4	
Manufacturing .....	741	280	206	255	127	128	16.7	8.4	
Durable goods .....	342	135	86	120	61	59	18.2	8.7	
Nondurable goods .....	399	145	120	134	66	68	15.4	8.1	
Transportation and public utilities .....	821	137	65	75	34	40	16.1	4.7	
Wholesale and retail trade .....	4,722	785	439	336	182	154	11.5	4.5	
Finance, insurance, and real estate .....	530	63	58	50	35	14	14.4	7.6	
Services .....	3,678	967	576	447	221	227	12.5	4.8	
Public administration .....	315	48	23	34	13	22	19.9	6.7	
No previous work experience .....	832	504	217	111	56	55	9.2	3.6	

<sup>1</sup> 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			
	June 1997	June 1998	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
Total not in the labor force .....	65,443	66,287	9,612	9,561	18,772	19,067	37,058	37,659	23,337	23,747	42,106	42,540
Do not want a job now <sup>1</sup> .....	60,118	61,100	7,320	7,229	16,506	16,950	36,292	36,920	21,082	21,522	39,036	39,578
Want a job <sup>1</sup> .....	5,325	5,187	2,292	2,331	2,266	2,117	767	739	2,255	2,225	3,070	2,962
Did not search for work in previous year .....	3,081	3,189	1,268	1,340	1,246	1,287	567	562	1,228	1,297	1,853	1,892
Searched for work in previous year <sup>2</sup> .....	2,243	1,998	1,024	991	1,020	830	200	177	1,026	927	1,217	1,070
Not available to work now .....	816	785	516	491	271	270	29	24	343	310	473	475
Available to work now .....	1,428	1,213	508	499	749	560	171	153	683	617	744	595
Reason not currently looking:												
Discouragement over job prospects <sup>3</sup> .....	353	311	117	104	172	171	64	36	200	168	152	143
Reasons other than discouragement .....	1,075	902	392	396	576	389	107	117	483	449	592	453
Family responsibilities .....	159	115	25	40	120	67	14	8	36	29	123	86
In school or training .....	177	195	141	166	36	29	-	-	97	117	81	77
Ill health or disability .....	99	106	22	16	65	71	12	20	44	56	55	50
Other <sup>4</sup> .....	640	486	204	174	356	223	81	89	306	247	334	239

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

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

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

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Characteristic	Both sexes				Men				Women			
	Number		Rate <sup>1</sup>		Number		Rate <sup>1</sup>		Number		Rate <sup>1</sup>	
	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998	June 1997	June 1998
<b>AGE</b>												
Total, 16 years and over <sup>2</sup> .....	8,214	7,712	6.3	5.8	4,513	4,133	6.4	5.8	3,700	3,579	6.2	5.9
16 to 19 years .....	512	463	6.9	5.9	218	196	5.8	4.8	294	267	8.2	7.0
20 years and over .....	7,702	7,249	6.3	5.8	4,295	3,936	6.4	5.8	3,407	3,313	6.1	5.8
20 to 24 years .....	859	795	6.7	6.1	451	373	6.5	5.4	408	422	6.9	7.0
25 years and over .....	6,843	6,454	6.2	5.8	3,844	3,564	6.4	5.9	2,999	2,890	6.0	5.7
25 to 54 years .....	6,114	5,730	6.5	6.0	3,415	3,125	6.7	6.1	2,699	2,606	6.2	6.0
55 years and over .....	729	724	4.6	4.4	429	439	4.8	4.8	300	285	4.3	4.0
55 to 64 years .....	614	615	5.1	4.8	347	377	5.2	5.4	267	239	4.9	4.2
65 years and over .....	115	109	3.1	3.0	83	62	3.7	2.9	33	46	2.2	3.1
<b>RACE AND HISPANIC ORIGIN</b>												
White .....	7,172	6,661	6.5	6.0	3,950	3,578	6.5	5.8	3,222	3,083	6.4	6.1
Black .....	734	790	5.3	5.4	405	439	6.1	6.2	329	351	4.5	4.6
Hispanic origin .....	516	506	4.0	3.8	330	323	4.2	4.0	186	183	3.8	3.4
<b>MARITAL STATUS</b>												
Married, spouse present .....	4,519	4,182	6.0	5.6	2,811	2,548	6.6	6.0	1,708	1,634	5.3	5.0
Widowed, divorced, or separated .....	1,349	1,336	6.6	6.4	506	529	5.9	6.1	843	808	7.0	6.6
Single (never married) .....	2,346	2,194	6.7	6.0	1,196	1,056	6.1	5.2	1,149	1,138	7.4	7.1
<b>FULL- OR PART-TIME STATUS</b>												
Primary job full time, secondary job part time .....	4,573	4,333	-	-	2,795	2,594	-	-	1,779	1,739	-	-
Primary and secondary jobs both part time .....	1,687	1,641	-	-	530	546	-	-	1,157	1,095	-	-
Primary and secondary jobs both full time .....	299	247	-	-	228	176	-	-	71	70	-	-
Hours vary on primary or secondary job .....	1,625	1,450	-	-	949	799	-	-	676	652	-	-

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

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

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

totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

**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							
	June 1997	June 1998	Total		Employed		Unemployed			
			June 1997	June 1998	June 1997	June 1998	Number		Percent of labor force	
							June 1997	June 1998	June 1997	June 1998
<b>VIETNAM-ERA VETERANS</b>										
Total, 40 years and over .....	7,810	7,482	6,746	6,403	6,543	6,223	203	180	3.0	2.8
40 to 54 years .....	6,318	5,965	5,753	5,319	5,570	5,163	183	156	3.2	2.9
40 to 44 years .....	1,046	767	956	682	917	645	39	37	4.1	5.5
45 to 49 years .....	2,715	2,260	2,482	2,013	2,412	1,964	70	48	2.8	2.4
50 to 54 years .....	2,557	2,938	2,314	2,624	2,241	2,554	73	70	3.2	2.7
55 years and over .....	1,492	1,517	994	1,084	973	1,060	21	25	2.1	2.3
<b>NONVETERANS</b>										
Total, 40 to 54 years .....	19,451	20,295	17,678	18,424	17,135	17,901	543	522	3.1	2.8
40 to 44 years .....	8,945	9,186	8,239	8,463	7,994	8,240	245	223	3.0	2.6
45 to 49 years .....	6,157	6,767	5,641	6,194	5,432	6,017	209	178	3.7	2.9
50 to 54 years .....	4,349	4,341	3,798	3,767	3,709	3,645	89	122	2.3	3.2

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

used in the household survey. Population and labor force levels for nonveterans from August 1995 to February 1998 are slightly overstated because they incorporate incorrect weighting procedures. Corrections will be made as soon as the necessary microdata files become available.





**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989 .....	34.6	9.66	334.24	43.0	13.26	570.18	37.9	13.54	513.17
1990 .....	34.5	10.01	345.35	44.1	13.68	603.29	38.2	13.77	526.01
1991 .....	34.3	10.32	353.98	44.4	14.19	630.04	38.1	14.00	533.40
1992 .....	34.4	10.57	363.61	43.9	14.54	638.31	38.0	14.15	537.70
1993 .....	34.5	10.83	373.64	44.3	14.60	646.78	38.5	14.38	553.63
1994 .....	34.7	11.12	385.86	44.8	14.88	666.62	38.9	14.73	573.00
1995 .....	34.5	11.43	394.34	44.7	15.30	683.91	38.9	15.09	587.00
1996 .....	34.4	11.82	406.61	45.3	15.62	707.59	39.0	15.47	603.33
1997 .....	34.6	12.28	424.89	45.4	16.17	734.12	38.9	16.03	623.57
<b>Monthly data, not seasonally adjusted</b>									
<b>1997:</b>									
June .....	34.9	\$12.18	\$425.08	45.8	\$16.14	\$739.21	39.6	\$15.91	\$630.04
July .....	34.8	12.17	423.52	45.1	16.07	724.76	40.1	16.03	642.80
August .....	35.0	12.22	427.70	45.6	15.98	728.69	39.7	16.12	639.96
September .....	34.8	12.40	431.52	45.5	16.26	739.83	40.1	16.30	653.63
October .....	34.7	12.45	432.02	45.3	16.23	735.22	39.8	16.33	649.93
November .....	34.8	12.53	436.04	45.6	16.41	748.30	37.8	16.28	615.38
December .....	34.8	12.53	436.04	45.2	16.52	746.70	38.5	16.37	630.25
<b>1998:</b>									
January .....	34.2	12.60	430.92	45.0	16.65	749.25	37.4	16.25	607.75
February .....	34.6	12.65	437.69	44.0	16.89	743.16	37.9	16.21	614.36
March .....	34.5	12.68	437.46	43.4	16.89	733.03	37.9	16.29	617.39
April .....	34.2	12.69	434.00	43.4	16.84	730.86	38.0	16.34	620.92
May <sup>P</sup> .....	34.6	12.69	439.07	44.1	16.77	739.56	39.2	16.43	644.06
June <sup>P</sup> .....	34.7	12.65	438.96	43.7	16.78	733.29	39.1	16.45	643.20

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.08
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.66
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.90
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.86
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.42
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.54
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	169.94
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.19
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.27
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	266.88
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.68
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.46
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.79
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.88
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.36
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.72
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
1988 .....	41.1	10.19	9.73	418.81	38.2	12.24	467.57	38.1	9.98	380.24
1989 .....	41.0	10.48	10.02	429.68	38.3	12.57	481.43	38.0	10.39	394.82
1990 .....	40.8	10.83	10.37	441.86	38.4	12.92	496.13	38.1	10.79	411.10
1991 .....	40.7	11.18	10.71	455.03	38.1	13.20	502.92	38.1	11.15	424.82
1992 .....	41.0	11.46	10.95	469.86	38.3	13.43	514.37	38.2	11.39	435.10
1993 .....	41.4	11.74	11.18	486.04	39.3	13.55	532.52	38.2	11.74	448.47
1994 .....	42.0	12.07	11.43	506.94	39.7	13.78	547.07	38.4	12.06	463.10
1995 .....	41.6	12.37	11.74	514.59	39.4	14.13	556.72	38.3	12.43	476.07
1996 .....	41.6	12.77	12.12	531.23	39.6	14.45	572.22	38.3	12.87	492.92
1997 .....	42.0	13.17	12.45	553.14	39.7	14.93	592.72	38.4	13.44	516.10
Monthly data, not seasonally adjusted										
<b>1997:</b>										
June .....	42.0	\$13.09	\$12.40	\$549.78	39.9	\$14.82	\$591.32	38.7	\$13.37	\$517.42
July .....	41.2	13.10	12.42	539.72	39.5	14.99	592.11	38.3	13.38	512.45
August .....	42.0	13.14	12.41	551.88	40.5	15.04	609.12	38.5	13.48	518.98
September .....	42.4	13.23	12.46	560.95	40.3	15.06	606.92	38.4	13.53	519.55
October .....	42.2	13.28	12.53	560.42	39.8	15.09	600.58	38.4	13.57	521.09
November .....	42.6	13.36	12.60	569.14	40.4	15.19	613.68	38.7	13.76	532.51
December .....	43.0	13.47	12.68	579.21	39.8	15.17	603.77	38.4	13.72	526.85
<b>1998:</b>										
January .....	41.9	13.40	12.70	561.46	39.3	15.27	600.11	38.1	13.77	524.64
February .....	41.7	13.41	12.72	559.20	39.9	15.29	610.07	38.5	13.85	533.23
March .....	41.7	13.47	12.76	561.70	39.4	15.24	600.46	38.4	13.86	532.22
April .....	40.8	13.46	12.83	549.17	39.1	15.27	597.06	38.1	13.90	529.59
May <sup>P</sup> .....	41.7	13.46	12.76	561.28	39.6	15.21	602.32	38.4	13.94	535.30
June <sup>P</sup> .....	41.9	13.43	12.73	562.72	39.8	15.19	604.56	38.3	13.84	530.07

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
1987 .....	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
1988 .....	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
1989 .....	28.9	6.53	188.72	35.8	9.53	341.17	32.6	9.38	305.79
1990 .....	28.8	6.75	194.40	35.8	9.97	356.93	32.5	9.83	319.48
1991 .....	28.6	6.94	198.48	35.7	10.39	370.92	32.4	10.23	331.45
1992 .....	28.8	7.12	205.06	35.8	10.82	387.36	32.5	10.54	342.55
1993 .....	28.8	7.29	209.95	35.8	11.35	406.33	32.5	10.78	350.35
1994 .....	28.9	7.49	216.46	35.8	11.83	423.51	32.5	11.04	358.80
1995 .....	28.8	7.69	221.47	35.9	12.32	442.29	32.4	11.39	369.04
1996 .....	28.8	7.99	230.11	35.9	12.80	459.52	32.4	11.79	382.00
1997 .....	28.9	8.34	241.03	36.1	13.33	481.21	32.6	12.28	400.33
Monthly data, not seasonally adjusted									
<b>1997:</b>									
June .....	29.4	\$8.27	\$243.14	36.7	\$13.26	\$486.64	32.8	\$12.14	\$398.19
July .....	29.6	8.27	244.79	35.9	13.21	474.24	32.8	12.06	395.57
August .....	29.7	8.30	246.51	36.1	13.38	483.02	32.9	12.12	398.75
September .....	29.0	8.45	245.05	35.8	13.48	482.58	32.5	12.36	401.70
October .....	28.8	8.47	243.94	35.9	13.56	486.80	32.6	12.41	404.57
November .....	28.8	8.51	245.09	36.7	13.72	503.52	32.8	12.57	412.30
December .....	29.2	8.51	248.49	35.9	13.64	489.68	32.6	12.61	411.09
<b>1998:</b>									
January .....	28.1	8.63	242.50	36.1	13.70	494.57	32.4	12.66	410.18
February .....	28.7	8.62	247.39	37.1	13.95	517.55	32.8	12.75	418.20
March .....	28.7	8.67	248.83	36.8	13.97	514.10	32.7	12.77	417.58
April .....	28.7	8.70	249.69	36.1	13.98	504.68	32.4	12.77	413.75
May <sup>p</sup> .....	29.0	8.71	252.59	36.1	13.98	504.68	32.5	12.75	414.38
June <sup>p</sup> .....	29.3	8.68	254.32	36.1	13.95	503.60	32.7	12.69	414.96

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

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	MayP	JuneP
<b>Total</b> .....	122,534	122,811	122,894	123,280	123,568	123,944	124,289	124,640	124,832	124,914	125,234	125,543	125,748
<b>Total private</b> .....	102,991	103,219	103,285	103,673	103,922	104,282	104,609	104,954	105,112	105,186	105,470	105,717	105,955
<b>Goods-producing</b> .....	24,903	24,923	24,972	24,993	25,032	25,099	25,193	25,297	25,314	25,276	25,339	25,301	25,291
<b>Mining</b> .....	593	593	592	594	592	591	592	592	590	587	582	579	578
Metal mining .....	54	54	54	53	53	53	52	52	52	51	51	51	50
Coal mining .....	96	95	95	95	95	94	94	94	93	93	92	92	91
Oil and gas extraction .....	335	336	336	338	337	337	338	338	338	336	332	329	330
Nonmetallic minerals, except fuels .....	108	108	107	108	107	107	108	108	107	107	107	107	107
<b>Construction</b> .....	5,668	5,682	5,699	5,713	5,722	5,750	5,810	5,881	5,902	5,860	5,930	5,917	5,937
General building contractors .....	1,312	1,316	1,318	1,320	1,326	1,335	1,351	1,365	1,371	1,373	1,385	1,387	1,399
Heavy construction, except building .....	791	789	791	792	789	788	805	817	813	805	819	817	818
Special trade contractors .....	3,565	3,577	3,590	3,601	3,607	3,627	3,654	3,699	3,718	3,682	3,726	3,713	3,720
<b>Manufacturing</b> .....	18,642	18,648	18,681	18,686	18,718	18,758	18,791	18,824	18,822	18,829	18,827	18,805	18,776
<b>Durable goods</b> .....	10,966	10,988	11,028	11,030	11,060	11,094	11,118	11,154	11,159	11,166	11,170	11,156	11,145
Lumber and wood products .....	793	793	794	794	794	795	798	800	800	801	802	803	801
Furniture and fixtures .....	509	510	509	510	511	513	515	517	519	520	524	526	523
Stone, clay, and glass products .....	550	553	552	553	554	554	555	562	561	558	561	560	563
Primary metal industries .....	708	708	712	714	714	715	716	719	718	719	718	716	717
Fabricated metal products .....	1,474	1,472	1,478	1,480	1,485	1,488	1,491	1,496	1,497	1,497	1,498	1,495	1,493
Industrial machinery and equipment .....	2,160	2,165	2,172	2,175	2,185	2,191	2,196	2,200	2,202	2,205	2,201	2,201	2,200
Computer and office equipment .....	375	377	379	379	380	379	381	381	381	381	377	375	373
Electronic and other electrical equipment .....	1,684	1,690	1,694	1,698	1,702	1,707	1,712	1,719	1,720	1,722	1,720	1,716	1,713
Electronic components and accessories .....	651	655	660	664	669	672	676	680	680	681	678	676	672
Transportation equipment .....	1,835	1,840	1,862	1,852	1,861	1,878	1,878	1,882	1,886	1,887	1,890	1,886	1,883
Motor vehicles and equipment .....	979	980	998	986	990	1,005	1,001	1,002	1,004	1,002	1,004	999	993
Aircraft and parts .....	500	504	508	510	513	516	519	521	523	525	525	523	525
Instruments and related products .....	863	865	865	865	866	867	869	870	866	868	867	866	865
Miscellaneous manufacturing .....	390	392	390	389	388	386	388	389	390	389	389	387	387
<b>Nondurable goods</b> .....	7,676	7,660	7,653	7,656	7,658	7,664	7,673	7,670	7,663	7,663	7,657	7,649	7,631
Food and kindred products .....	1,690	1,687	1,682	1,688	1,689	1,696	1,702	1,702	1,703	1,704	1,708	1,710	1,706
Tobacco products .....	41	42	41	40	41	42	41	40	41	41	42	41	40
Textile mill products .....	616	616	613	613	612	611	611	608	606	604	605	604	599
Apparel and other textile products .....	829	824	822	817	814	810	808	805	796	796	787	780	774
Paper and allied products .....	684	684	684	685	685	686	686	688	688	688	686	685	680
Printing and publishing .....	1,557	1,556	1,556	1,556	1,558	1,560	1,561	1,564	1,564	1,564	1,565	1,565	1,570
Chemicals and allied products .....	1,034	1,031	1,032	1,033	1,034	1,035	1,036	1,035	1,036	1,036	1,035	1,039	1,038
Petroleum and coal products .....	140	139	139	139	139	138	139	136	136	136	137	136	136
Rubber and misc. plastics products .....	994	991	995	997	998	999	1,002	1,006	1,007	1,009	1,008	1,006	1,005
Leather and leather products .....	91	90	89	88	88	87	87	86	86	85	84	83	83
<b>Service-producing</b> .....	97,631	97,888	97,922	98,287	98,536	98,845	99,096	99,343	99,518	99,638	99,895	100,242	100,457
<b>Transportation and public utilities</b> .....	6,405	6,411	6,264	6,435	6,453	6,456	6,451	6,473	6,494	6,504	6,513	6,530	6,544
Transportation .....	4,118	4,120	3,973	4,141	4,149	4,147	4,135	4,148	4,164	4,170	4,173	4,188	4,195
Railroad transportation .....	229	228	225	227	227	228	230	231	231	231	231	231	233
Local and interurban passenger transit .....	450	451	455	451	452	453	455	456	459	460	453	461	463
Trucking and warehousing .....	1,666	1,670	1,675	1,680	1,680	1,678	1,676	1,684	1,688	1,690	1,702	1,702	1,713
Water transportation .....	181	180	181	180	180	180	179	177	181	183	181	185	184
Transportation by air .....	1,139	1,137	981	1,147	1,154	1,151	1,138	1,142	1,145	1,146	1,147	1,148	1,143
Pipelines, except natural gas .....	14	14	14	14	14	14	14	14	14	14	14	14	14
Transportation services .....	439	440	442	442	442	443	443	444	446	446	445	447	445
Communications and public utilities .....	2,287	2,291	2,291	2,294	2,304	2,309	2,316	2,325	2,330	2,334	2,340	2,342	2,349
Communications .....	1,421	1,425	1,430	1,432	1,443	1,449	1,457	1,466	1,471	1,475	1,484	1,485	1,493
Electric, gas, and sanitary services .....	866	866	861	862	861	860	859	859	859	859	856	857	856
<b>Wholesale trade</b> .....	6,632	6,655	6,671	6,679	6,697	6,711	6,731	6,759	6,769	6,783	6,798	6,813	6,828
Durable goods .....	3,923	3,942	3,959	3,964	3,977	3,989	4,002	4,017	4,030	4,039	4,050	4,058	4,068
Nondurable goods .....	2,709	2,713	2,712	2,715	2,720	2,722	2,729	2,742	2,739	2,744	2,748	2,755	2,760

See footnotes at end of table.



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1997									1998			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>Total</b> .....	59,083	59,228	59,335	59,506	59,564	59,663	59,810	59,974	60,114	60,220	60,308	60,380	60,460
<b>Total private</b> .....	48,285	48,398	48,485	48,621	48,614	48,763	48,884	49,026	49,142	49,239	49,306	49,369	49,446
<b>Goods-producing</b> .....	6,688	6,694	6,703	6,705	6,711	6,717	6,732	6,741	6,759	6,766	6,767	6,770	6,759
<b>Mining</b> .....	81	82	82	82	83	82	82	82	83	83	83	83	82
<b>Construction</b> .....	627	630	632	634	636	639	643	645	648	650	654	655	656
<b>Manufacturing</b> .....	5,980	5,982	5,989	5,989	5,992	5,996	6,007	6,014	6,028	6,033	6,030	6,032	6,021
<b>Durable goods</b> .....	2,894	2,900	2,909	2,915	2,926	2,932	2,945	2,952	2,962	2,973	2,979	2,982	2,980
Lumber and wood products .....	137	138	137	138	138	138	138	139	139	140	141	141	141
Furniture and fixtures .....	160	160	160	160	160	160	161	161	162	163	164	165	166
Stone, clay, and glass products .....	104	104	104	104	105	105	105	106	105	107	107	107	106
Primary metal industries .....	102	102	103	103	103	103	103	104	104	104	104	104	105
Fabricated metal products .....	325	326	327	326	328	329	330	330	331	333	334	334	334
Industrial machinery and equipment .....	469	472	473	475	477	478	481	482	484	485	486	485	485
Electronic and other electrical equipment .....	692	692	695	697	698	702	706	708	712	714	716	716	712
Transportation equipment .....	382	383	387	387	393	394	397	399	401	400	401	402	404
Instruments and related products .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing .....	172	172	172	173	172	171	171	169	170	171	171	171	171
<b>Nondurable goods</b> .....	3,086	3,082	3,080	3,074	3,066	3,064	3,062	3,062	3,066	3,060	3,051	3,050	3,041
Food and kindred products .....	557	556	557	555	554	554	555	557	558	559	559	559	560
Tobacco products .....	13	13	13	13	12	13	13	13	13	13	13	13	14
Textile mill products .....	288	287	287	288	284	285	284	283	283	281	280	278	279
Apparel and other textile products .....	620	615	612	609	608	602	598	594	594	589	582	583	575
Paper and allied products .....	166	167	166	166	166	167	167	168	168	168	168	168	167
Printing and publishing .....	699	701	703	704	703	703	704	705	705	706	705	706	705
Chemicals and allied products .....	330	330	330	329	329	330	330	330	331	330	331	330	330
Petroleum and coal products .....	25	25	25	25	24	24	24	24	25	24	24	24	24
Rubber and misc. plastics products .....	338	339	339	337	339	340	341	342	343	345	344	344	343
Leather and leather products .....	50	49	48	48	47	46	46	46	46	45	45	45	44
<b>Service-producing</b> .....	52,395	52,534	52,632	52,801	52,853	52,946	53,078	53,233	53,355	53,454	53,541	53,610	53,701
<b>Transportation and public utilities</b> .....	1,941	1,945	1,945	1,943	1,900	1,943	1,944	1,944	1,939	1,946	1,948	1,949	1,951
<b>Wholesale trade</b> .....	2,050	2,055	2,054	2,059	2,060	2,058	2,066	2,066	2,067	2,078	2,077	2,078	2,082
<b>Retail trade</b> .....	11,549	11,560	11,576	11,580	11,602	11,614	11,632	11,677	11,700	11,713	11,712	11,707	11,720
<b>Finance, insurance, and real estate</b> .....	4,441	4,450	4,459	4,469	4,478	4,486	4,498	4,511	4,526	4,539	4,546	4,563	4,582
<b>Services</b> .....	21,616	21,694	21,748	21,865	21,863	21,945	22,012	22,087	22,151	22,197	22,256	22,302	22,352
<b>Government</b> .....	10,798	10,830	10,850	10,885	10,950	10,900	10,926	10,948	10,972	10,981	11,002	11,011	11,014
Federal .....	1,147	1,146	1,145	1,143	1,143	1,135	1,142	1,144	1,154	1,141	1,140	1,137	1,136
State .....	2,327	2,335	2,339	2,357	2,354	2,351	2,360	2,365	2,363	2,365	2,367	2,371	2,369
Local .....	7,324	7,349	7,366	7,385	7,453	7,414	7,424	7,439	7,455	7,475	7,495	7,503	7,509

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

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	MayP	JuneP
<b>Total private</b> .....	84,455	84,670	84,567	84,966	85,176	85,441	85,705	85,947	86,073	86,113	86,282	86,515	86,646
<b>Goods-producing</b> .....	17,729	17,744	17,773	17,787	17,818	17,870	17,947	18,039	18,037	17,996	18,043	17,993	17,981
<b>Mining</b> .....	446	447	447	448	448	449	449	450	450	445	440	441	435
<b>Construction</b> .....	4,395	4,408	4,418	4,424	4,425	4,451	4,497	4,566	4,563	4,538	4,596	4,577	4,596
<b>Manufacturing</b> .....	12,888	12,889	12,908	12,915	12,945	12,970	13,001	13,023	13,024	13,013	13,007	12,975	12,950
<b>Durable goods</b> .....	7,524	7,536	7,573	7,573	7,598	7,621	7,644	7,669	7,676	7,669	7,666	7,646	7,633
Lumber and wood products .....	653	653	653	653	654	655	658	660	660	659	660	660	658
Furniture and fixtures .....	405	407	405	405	406	408	410	412	413	415	418	419	416
Stone, clay, and glass products .....	428	431	431	431	433	434	436	441	441	436	436	438	439
Primary metal industries .....	553	554	558	559	559	560	562	564	564	565	563	561	562
Fabricated metal products .....	1,111	1,110	1,116	1,117	1,120	1,122	1,125	1,130	1,132	1,131	1,132	1,128	1,125
Industrial machinery and equipment .....	1,361	1,362	1,369	1,370	1,379	1,382	1,386	1,389	1,391	1,391	1,389	1,388	1,391
Electronic and other electrical equipment .....	1,064	1,068	1,072	1,075	1,078	1,080	1,086	1,089	1,087	1,085	1,081	1,079	1,077
Transportation equipment .....	1,248	1,251	1,270	1,264	1,270	1,283	1,280	1,279	1,283	1,281	1,279	1,269	1,261
Motor vehicles and equipment .....	776	777	792	784	786	791	790	787	788	784	784	775	767
Instruments and related products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Miscellaneous manufacturing .....	274	274	274	272	272	270	272	273	273	273	274	271	271
<b>Nondurable goods</b> .....	5,364	5,353	5,335	5,342	5,347	5,349	5,357	5,354	5,348	5,344	5,341	5,329	5,317
Food and kindred products .....	1,255	1,252	1,248	1,254	1,255	1,260	1,263	1,265	1,267	1,267	1,271	1,273	1,269
Tobacco products .....	32	32	30	31	32	33	32	32	32	32	32	32	31
Textile mill products .....	522	523	518	519	520	518	519	516	514	513	513	512	509
Apparel and other textile products .....	678	674	670	665	663	659	656	652	645	643	633	626	623
Paper and allied products .....	522	522	520	521	522	523	524	525	525	525	524	522	520
Printing and publishing .....	853	851	849	847	849	849	850	850	848	845	846	847	847
Chemicals and allied products .....	570	570	570	573	575	576	578	580	582	583	583	584	586
Petroleum and coal products .....	92	92	92	92	91	91	92	89	89	89	90	89	89
Rubber and misc. plastics products .....	771	769	771	773	773	774	777	780	781	783	784	781	781
Leather and leather products .....	69	68	67	67	67	66	66	65	65	64	64	63	62
<b>Service-producing</b> .....	66,726	66,926	66,794	67,179	67,358	67,571	67,758	67,908	68,036	68,117	68,239	68,522	68,665
<b>Transportation and public utilities</b> .....	5,380	5,378	5,199	5,373	5,375	5,370	5,367	5,374	5,372	5,375	5,373	5,398	5,404
<b>Wholesale trade</b> .....	5,344	5,361	5,369	5,371	5,382	5,392	5,407	5,426	5,431	5,436	5,448	5,452	5,459
<b>Retail trade</b> .....	19,356	19,359	19,398	19,422	19,463	19,539	19,570	19,585	19,605	19,582	19,596	19,703	19,704
<b>Finance, insurance, and real estate</b> .....	5,166	5,182	5,191	5,202	5,223	5,245	5,264	5,287	5,307	5,329	5,353	5,374	5,396
<b>Services</b> .....	31,480	31,646	31,637	31,811	31,915	32,025	32,150	32,236	32,321	32,395	32,469	32,595	32,702

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

<sup>2</sup> This series is not published seasonally adjusted because the seasonal component, which is small relative to the trend-cycle and irregular components,

cannot be separated with sufficient precision.

P = preliminary.

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



**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries <sup>1</sup>												
Over 1-month span:												
1994 .....	59.3	60.5	67.0	64.5	58.6	63.3	63.8	61.7	61.5	60.4	64.0	61.7
1995 .....	62.5	60.0	54.9	55.6	47.8	55.6	54.8	59.0	58.0	55.8	54.5	58.8
1996 .....	50.8	64.6	59.6	56.6	62.8	61.0	57.3	61.5	56.0	62.5	62.2	60.7
1997 .....	58.0	61.4	59.8	63.6	60.1	54.6	61.1	59.1	60.0	64.3	62.4	64.9
1998 .....	63.8	58.7	59.6	56.9	P 55.8	P 59.0						
Over 3-month span:												
1994 .....	64.5	69.2	69.9	68.4	66.6	67.1	69.0	69.5	66.2	65.6	66.6	66.3
1995 .....	63.6	61.4	59.4	53.1	55.2	53.2	59.7	60.1	59.1	58.0	56.6	54.6
1996 .....	61.9	62.8	64.0	63.8	63.5	64.9	64.2	61.5	63.9	64.2	67.0	66.6
1997 .....	64.9	63.3	65.6	66.2	63.9	61.2	60.1	65.9	67.4	68.1	70.8	71.9
1998 .....	68.4	67.3	64.2	P 61.2	P 60.1							
Over 6-month span:												
1994 .....	70.9	69.9	69.7	71.2	70.2	69.8	69.8	70.2	68.7	67.4	66.7	65.4
1995 .....	66.4	60.1	59.1	57.3	59.0	60.1	57.6	60.4	59.7	59.3	61.1	63.2
1996 .....	62.8	65.4	64.7	65.7	66.2	65.0	66.4	66.0	66.2	67.6	66.9	66.3
1997 .....	67.6	67.0	65.3	64.9	65.6	67.3	68.0	67.3	70.6	72.3	73.3	72.6
1998 .....	72.1	P 70.8	P 67.7									
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	61.5	63.5	65.4
1996 .....	64.5	66.7	64.5	65.6	68.5	67.3	67.7	66.4	68.0	69.9	69.1	68.3
1997 .....	69.8	67.6	69.2	70.1	69.8	69.8	71.2	71.2	71.1	73.0	P 72.5	P 72.5
1998 .....												
Manufacturing payrolls, 139 industries <sup>1</sup>												
Over 1-month span:												
1994 .....	56.8	56.5	60.1	59.0	53.6	58.3	59.0	55.8	53.6	56.5	58.3	56.8
1995 .....	54.7	54.3	46.4	53.2	42.4	44.2	46.4	49.6	48.6	52.2	45.3	48.2
1996 .....	42.8	54.7	48.2	42.1	55.4	50.7	47.1	55.4	47.8	52.9	54.3	55.4
1997 .....	49.3	54.3	50.0	56.8	51.4	52.2	50.4	48.9	56.5	57.2	56.1	60.8
1998 .....	55.8	51.8	52.5	48.6	P 46.0	P 47.8						
Over 3-month span:												
1994 .....	60.4	63.7	63.7	60.4	57.6	59.7	61.9	56.8	54.3	55.4	60.8	59.0
1995 .....	56.8	50.0	47.8	42.1	43.2	38.8	40.6	43.5	48.2	47.1	45.3	39.9
1996 .....	43.9	46.8	46.0	47.5	46.4	49.3	51.4	50.0	53.6	51.1	57.6	54.7
1997 .....	54.3	49.3	54.3	54.0	55.4	50.4	47.5	52.2	57.9	62.6	64.7	65.5
1998 .....	60.1	59.0	50.7	P 46.0	P 42.8							
Over 6-month span:												
1994 .....	60.4	62.9	61.2	62.6	59.4	57.2	57.6	58.6	58.6	54.7	57.2	55.0
1995 .....	55.4	46.4	42.8	40.3	41.4	42.4	41.0	41.0	43.9	43.2	43.2	45.3
1996 .....	42.1	45.3	46.4	47.1	48.2	48.6	51.1	50.4	52.9	52.9	53.2	52.2
1997 .....	54.3	54.3	51.4	52.9	51.4	55.0	56.8	57.6	60.4	64.4	67.6	65.8
1998 .....	61.5	P 57.2	P 52.2									
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	38.5	39.9	44.6
1996 .....	43.5	47.5	45.3	45.3	50.4	49.6	50.4	48.6	51.1	55.0	54.0	51.8
1997 .....	57.2	52.5	54.7	56.5	57.9	57.6	58.6	58.6	60.4	60.4	P 59.7	P 58.3
1998 .....												

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

P = preliminary.

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

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

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
	Total <sup>1</sup>												
Alabama .....	1,864.2	1,864.9	1,869.9	1,869.5	1,869.5	1,870.7	1,871.0	1,871.9	1,876.0	1,877.2	1,879.4	1,878.2	1,883.9
Alaska .....	269.2	268.9	270.2	269.5	269.0	268.1	268.8	268.3	270.2	273.1	273.7	273.8	273.1
Arizona .....	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	2,037.9	2,045.6	2,048.3	2,059.9
Arkansas .....	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	1,113.1	1,118.9	1,124.0	1,125.7
California .....	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	13,439.9	13,485.6	13,512.4	13,554.2
Colorado .....	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	2,019.9	2,023.9	2,022.0	2,033.0
Connecticut .....	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	1,641.2	1,639.6	1,641.9	1,641.2
Delaware .....	385.1	386.2	388.1	390.1	391.4	392.5	393.6	395.5	394.6	396.6	398.0	398.3	400.5
District of Columbia .....	613.0	612.9	619.1	614.7	614.8	612.9	610.8	610.4	613.1	609.4	610.9	609.7	610.2
Florida .....	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	6,577.9	6,604.1	6,610.3	6,645.1
Georgia .....	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	3,707.4	3,714.9	3,718.2	3,732.0
Hawaii .....	531.2	531.6	531.3	533.0	534.6	533.4	532.8	530.5	528.6	528.4	529.0	527.8	527.9
Idaho .....	508.2	508.8	512.6	511.5	510.2	512.9	513.5	514.0	515.1	516.1	516.7	516.6	516.4
Illinois .....	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	5,833.2	5,834.5	5,852.9	5,865.1
Indiana .....	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	2,878.8	2,880.0	2,891.4	2,902.4
Iowa .....	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	1,426.1	1,429.2	1,436.7	1,438.5
Kansas .....	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	1,294.4	1,294.4	1,297.7	1,305.8
Kentucky .....	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	1,735.4	1,738.0	1,745.1	1,752.2
Louisiana .....	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	1,875.8	1,879.5	1,879.4	1,884.0
Maine .....	550.0	552.6	554.6	555.2	557.1	558.5	560.8	561.4	558.1	560.8	561.0	561.0	560.7
Maryland .....	2,259.0	2,259.1	2,258.9	2,255.5	2,258.2	2,263.3	2,272.1	2,273.8	2,282.0	2,282.4	2,277.2	2,272.8	2,272.0
Massachusetts .....	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	3,185.5	3,190.6	3,196.7	3,206.8
Michigan .....	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	4,506.7	4,503.3	4,525.7	4,521.3
Minnesota .....	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	2,522.3	2,530.1	2,528.3	2,540.2
Mississippi .....	1,104.4	1,100.7	1,109.4	1,110.0	1,110.5	1,112.7	1,113.1	1,112.6	1,117.6	1,120.9	1,117.2	1,120.7	1,122.8
Missouri .....	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	2,662.9	2,651.6	2,663.3	2,677.0
Montana .....	365.2	363.0	367.5	367.9	368.2	368.6	369.0	370.3	368.7	370.6	370.2	370.6	373.1
Nebraska .....	850.8	853.3	861.0	859.3	861.8	864.0	866.4	868.6	874.0	878.5	873.0	878.2	878.1
Nevada .....	885.4	890.2	891.9	893.8	898.7	901.9	904.2	907.2	907.0	912.8	916.0	920.9	921.9
New Hampshire .....	569.1	568.7	573.8	572.4	570.5	573.4	572.5	570.0	572.7	572.6	570.7	573.8	573.3
New Jersey .....	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	3,784.2	3,788.0	3,785.2	3,795.4
New Mexico .....	707.0	708.5	709.1	709.5	709.1	712.2	713.3	713.9	712.7	713.1	714.4	713.0	715.4
New York .....	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	8,098.6	8,117.5	8,124.9	8,139.9
North Carolina .....	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	3,734.1	3,735.5	3,739.3	3,747.5
North Dakota .....	312.1	311.3	313.6	313.6	314.1	314.4	315.1	316.2	317.4	319.0	318.1	318.0	318.5
Ohio .....	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	5,436.3	5,445.3	5,448.6	5,459.5
Oklahoma .....	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	1,410.7	1,415.9	1,418.4	1,427.7
Oregon .....	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	1,557.3	1,561.9	1,563.9	1,565.2
Pennsylvania .....	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	5,448.0	5,447.2	5,455.7	5,454.7
Rhode Island .....	449.0	448.1	449.8	449.7	452.3	451.9	451.1	453.4	452.7	454.1	453.7	455.3	456.8
South Carolina .....	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	1,767.8	1,775.6	1,784.8	1,787.9
South Dakota .....	355.4	352.4	356.5	355.6	355.8	356.3	355.7	356.1	354.9	357.0	357.3	358.0	359.6
Tennessee .....	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	2,620.7	2,623.6	2,623.5	2,620.2
Texas .....	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	8,824.5	8,855.0	8,880.2
Utah .....	991.8	992.7	997.1	997.4	1,002.1	1,003.7	1,010.6	1,014.3	1,015.6	1,018.2	1,024.3	1,024.4	1,026.3
Vermont .....	278.4	278.4	279.7	279.2	279.4	279.5	279.7	281.4	279.3	280.0	280.1	281.5	282.2
Virginia .....	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	3,291.1	3,303.6	3,306.9	3,316.0
Washington .....	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	2,558.5	2,566.4	2,576.5	2,587.0
West Virginia .....	705.6	706.7	706.1	706.9	708.7	716.9	717.7	717.1	715.3	715.6	715.2	715.1	722.6
Wisconsin .....	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	2,694.1	2,696.5	2,702.6	2,709.4
Wyoming .....	224.1	223.1	226.5	226.7	223.2	223.4	223.2	223.0	222.8	222.4	223.9	224.3	225.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
	Construction												
Alabama .....	97.6	97.6	97.3	96.9	97.0	96.6	96.5	96.2	97.1	97.9	97.0	98.7	100.0
Alaska .....	13.0	12.9	12.9	12.8	12.5	12.4	12.7	12.8	12.8	12.8	12.8	13.0	12.9
Arizona .....	130.3	130.0	131.9	131.2	131.4	131.8	131.4	131.6	134.5	133.5	134.5	133.3	135.0
Arkansas .....	48.2	47.7	48.0	47.9	47.4	48.0	48.0	48.1	47.5	47.5	47.7	48.8	49.3
California .....	548.2	548.2	557.2	562.1	566.1	570.2	573.1	577.9	583.4	582.3	591.9	591.6	593.4
Colorado .....	118.9	119.3	119.6	120.0	121.2	121.6	118.0	122.1	127.3	128.0	127.9	126.5	127.2
Connecticut .....	56.3	56.3	56.3	56.3	57.2	57.7	58.1	58.9	60.1	60.1	59.8	59.6	58.9
Delaware .....	21.2	21.6	21.1	21.3	21.6	21.9	22.2	22.5	23.1	22.8	22.2	22.1	21.6
District of Columbia .....	8.9	8.9	9.0	8.9	8.8	8.8	8.4	8.8	8.7	8.8	8.9	8.7	8.7
Florida .....	329.6	330.3	335.4	335.7	335.4	337.6	339.3	339.9	340.5	340.6	342.6	344.5	347.1
Georgia .....	166.4	165.9	169.0	170.9	171.9	172.2	173.3	175.2	177.2	177.2	178.2	178.5	181.4
Hawaii <sup>2</sup> .....	22.3	22.1	22.2	22.0	22.0	22.0	21.9	21.8	21.9	21.9	22.1	21.8	22.0
Idaho .....	32.2	32.2	32.2	32.4	32.7	32.6	32.5	32.3	32.7	33.2	32.6	32.9	32.7
Illinois .....	234.7	233.0	234.8	237.2	238.2	238.2	239.3	239.1	239.8	240.8	235.9	241.4	238.8
Indiana .....	141.2	140.8	139.8	139.7	139.8	140.6	142.3	142.9	143.3	143.8	140.6	144.5	144.9
Iowa .....	60.1	60.5	61.0	60.6	60.3	60.2	60.5	61.0	60.1	60.3	60.6	62.3	62.7
Kansas .....	59.7	59.5	58.9	59.2	59.1	59.3	59.4	59.3	60.7	60.8	58.5	60.2	61.5
Kentucky .....	81.1	80.2	81.6	83.3	82.1	82.1	81.6	82.3	85.2	83.3	85.4	86.3	86.9
Louisiana .....	116.4	117.5	118.0	118.7	117.8	117.8	117.4	117.1	117.9	118.0	118.4	118.6	119.7
Maine .....	23.5	23.5	23.9	24.0	24.0	24.2	24.4	24.4	24.4	24.4	24.2	24.1	24.2
Maryland .....	138.3	138.1	137.6	137.6	137.2	138.5	139.7	140.3	140.6	140.1	137.4	136.6	133.7
Massachusetts .....	98.4	98.3	100.2	100.7	99.0	99.7	102.5	104.4	107.9	108.8	108.3	108.2	107.7
Michigan .....	180.8	181.0	181.2	182.7	182.5	183.7	184.1	186.1	184.8	187.3	184.6	190.3	187.7
Minnesota .....	93.6	93.3	93.4	93.9	94.2	94.5	95.7	96.3	97.6	99.4	99.2	99.7	99.7
Mississippi .....	50.1	50.0	51.5	51.6	51.7	52.4	51.6	51.5	52.7	52.6	51.9	52.4	52.2
Missouri .....	121.3	120.6	121.6	123.5	124.6	124.6	125.2	124.9	123.1	124.8	118.5	123.6	124.3
Montana .....	17.8	17.4	18.4	19.0	18.5	18.5	18.6	18.9	18.9	18.7	18.2	18.0	18.2
Nebraska .....	37.8	38.3	38.9	38.8	38.9	39.2	39.2	40.9	42.8	42.4	40.8	40.9	40.8
Nevada .....	81.8	81.8	82.0	82.5	82.8	83.4	83.7	84.0	85.1	85.2	86.1	87.0	87.3
New Hampshire .....	21.2	20.9	21.1	21.3	21.5	21.2	21.0	21.4	21.8	22.0	22.2	22.4	22.2
New Jersey .....	130.2	130.4	131.3	131.5	131.5	131.2	131.8	131.9	135.6	137.1	136.4	136.2	135.1
New Mexico .....	42.8	42.8	42.5	42.8	42.6	42.3	42.2	42.2	42.1	42.1	42.2	42.6	43.0
New York .....	262.8	262.3	262.1	264.1	265.3	267.9	267.8	268.1	265.6	268.5	270.6	271.8	273.5
North Carolina .....	202.0	201.7	204.4	205.5	206.7	207.2	207.9	208.7	211.7	208.7	209.5	210.3	211.0
North Dakota .....	14.9	15.0	15.5	14.9	14.7	14.7	14.8	14.9	15.1	15.2	15.1	15.3	15.3
Ohio .....	224.1	222.9	222.6	224.6	224.9	225.0	225.4	225.3	226.7	228.4	228.1	232.9	233.7
Oklahoma .....	50.2	49.9	50.5	50.5	50.8	50.6	50.9	50.8	51.8	52.1	52.3	52.5	53.1
Oregon .....	82.2	82.5	81.9	82.5	83.0	82.7	83.1	84.6	82.3	84.3	84.9	85.7	82.7
Pennsylvania .....	213.0	212.2	212.3	213.0	213.9	214.7	216.4	217.1	218.4	219.4	220.6	222.2	222.9
Rhode Island .....	14.4	14.3	14.4	14.6	14.9	14.9	14.9	15.1	15.4	15.5	16.1	16.9	16.7
South Carolina .....	98.8	98.6	99.7	100.4	100.7	101.1	101.6	103.3	104.9	106.0	106.7	107.9	108.8
South Dakota .....	15.0	15.2	15.5	15.6	15.5	15.6	15.7	15.9	15.9	16.0	15.6	15.9	15.8
Tennessee .....	116.2	115.1	116.0	116.6	116.9	117.4	117.8	118.1	117.0	117.7	119.2	120.3	120.3
Texas .....	456.4	457.9	459.6	462.5	463.2	462.4	464.5	467.0	468.1	476.7	477.8	480.3	485.3
Utah .....	65.2	65.3	65.5	65.4	65.1	64.7	65.8	66.5	65.7	66.5	67.3	67.7	68.5
Vermont .....	12.9	13.0	13.2	13.3	13.1	12.9	12.8	13.3	12.7	12.6	12.5	13.0	13.1
Virginia .....	185.2	184.7	185.1	185.7	185.1	187.3	188.3	189.0	190.2	191.5	192.9	193.4	194.5
Washington .....	136.0	136.4	136.9	137.0	136.3	136.1	136.8	136.6	137.7	138.2	138.9	140.1	141.3
West Virginia .....	34.6	34.6	34.3	34.5	34.6	35.4	35.6	35.5	36.2	35.4	34.3	35.5	33.5
Wisconsin .....	108.9	109.0	109.5	109.3	108.8	108.9	109.4	110.0	110.2	111.6	110.9	111.9	112.5
Wyoming .....	15.2	15.3	15.5	15.6	15.4	14.9	15.2	14.9	14.9	15.0	15.1	15.3	15.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
	<b>Manufacturing</b>												
Alabama .....	380.9	379.8	381.2	382.2	380.0	378.7	378.7	378.6	380.2	379.2	378.0	377.1	377.3
Alaska .....	15.5	15.5	15.4	14.8	14.7	15.0	15.5	13.9	15.5	16.4	16.3	15.5	14.0
Arizona .....	204.7	205.2	206.9	208.1	209.3	210.1	211.6	212.9	214.7	215.0	215.1	215.5	215.1
Arkansas .....	253.8	253.7	253.0	253.4	252.9	253.5	253.3	254.0	255.5	255.3	255.1	255.6	255.4
California .....	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	1,945.2	1,947.1	1,944.3	1,947.8
Colorado .....	202.7	202.8	204.0	204.6	205.1	205.8	206.6	207.7	206.9	208.4	208.8	208.4	208.0
Connecticut .....	275.9	276.2	278.2	277.2	276.6	276.5	276.0	276.3	277.1	276.9	277.0	277.6	276.8
Delaware .....	57.5	56.6	56.6	57.5	57.9	58.3	58.4	58.7	56.7	57.3	58.8	58.8	59.2
District of Columbia .....	12.7	12.5	12.5	12.6	12.5	12.6	12.6	12.6	12.8	12.7	12.8	12.8	12.8
Florida .....	491.0	490.2	492.3	492.3	491.9	491.7	491.5	491.9	491.8	491.7	491.3	491.9	493.1
Georgia .....	589.4	588.5	588.9	587.8	587.5	588.1	589.3	590.0	589.1	587.1	589.9	590.4	591.4
Hawaii .....	16.7	16.7	16.8	16.7	16.4	16.4	16.5	16.5	16.4	16.4	16.4	16.3	18.2
Idaho .....	74.2	74.4	74.1	74.5	74.8	75.2	75.5	75.8	76.4	76.7	76.3	76.3	78.1
Illinois .....	970.6	968.2	975.9	977.7	978.8	983.3	979.5	980.9	981.3	980.2	980.5	981.8	981.0
Indiana .....	677.4	675.9	676.8	677.5	675.2	678.0	678.4	679.6	678.6	680.1	682.9	681.4	681.4
Iowa .....	253.0	253.6	253.9	255.2	254.4	256.3	256.1	256.3	256.5	257.0	258.4	258.3	259.1
Kansas .....	204.5	205.9	206.3	206.9	207.3	207.1	208.4	208.9	209.7	210.2	210.4	210.8	211.8
Kentucky .....	314.6	317.4	318.6	319.5	320.2	315.6	315.9	316.7	318.6	317.9	314.9	315.7	316.2
Louisiana .....	191.6	190.8	191.3	191.0	190.7	190.0	190.7	190.8	190.8	190.4	190.5	189.9	190.3
Maine .....	87.6	87.7	87.3	87.9	87.6	87.5	87.8	88.1	88.1	88.2	87.4	87.3	86.9
Maryland .....	176.7	176.1	175.3	176.0	173.5	173.6	176.6	176.7	176.6	177.1	176.8	176.1	176.1
Massachusetts .....	447.0	447.7	448.9	448.7	448.2	450.2	451.6	452.9	455.8	456.9	456.3	454.5	453.8
Michigan .....	967.4	963.3	964.1	967.8	963.3	969.8	970.7	969.3	970.9	973.2	973.8	981.3	976.6
Minnesota .....	432.4	433.0	434.5	435.1	434.9	437.5	439.3	440.4	440.7	438.7	442.4	441.6	442.3
Mississippi .....	242.4	241.3	242.5	240.4	239.3	240.3	241.2	241.1	241.8	242.6	241.5	241.8	241.9
Missouri .....	417.9	418.9	416.4	422.1	418.6	420.8	419.8	420.2	426.7	420.0	421.6	421.4	421.4
Montana .....	24.2	24.0	24.1	24.3	24.3	24.4	24.5	24.3	24.4	24.6	24.5	24.7	24.9
Nebraska .....	114.7	115.9	118.0	116.0	116.2	116.5	116.8	117.0	117.7	118.7	118.2	119.8	119.5
Nevada .....	40.3	40.4	40.4	40.7	40.9	40.9	41.2	41.4	41.7	41.9	42.4	42.3	42.5
New Hampshire .....	106.6	106.8	107.4	107.3	107.7	107.7	107.7	108.1	108.8	108.5	108.7	108.2	108.0
New Jersey .....	481.1	480.8	481.9	482.4	482.0	481.6	483.5	484.4	486.0	485.5	485.2	483.3	481.2
New Mexico .....	46.1	45.9	46.4	46.9	46.9	47.1	47.3	47.3	46.9	46.3	45.6	45.2	45.2
New York .....	920.4	917.7	921.3	921.7	921.6	922.3	923.3	925.1	923.0	920.3	920.4	918.2	916.7
North Carolina .....	834.9	834.2	835.6	831.4	834.0	834.2	834.7	833.5	833.1	833.7	833.1	831.2	830.3
North Dakota .....	23.0	23.2	23.5	23.8	23.4	23.6	23.7	23.6	24.0	23.9	23.9	23.8	24.2
Ohio .....	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	1,096.9	1,097.8	1,094.9	1,090.8
Oklahoma .....	177.5	181.2	181.2	181.1	181.6	182.2	183.2	183.7	184.2	184.4	184.4	183.7	184.9
Oregon .....	245.3	244.1	244.3	242.1	243.7	245.6	246.2	246.7	247.0	247.5	247.7	246.7	247.6
Pennsylvania .....	937.3	936.5	938.4	935.4	938.7	939.3	938.6	938.6	943.0	941.6	939.7	938.5	935.0
Rhode Island .....	79.9	79.6	79.8	79.3	79.7	79.3	78.8	80.1	79.4	79.4	79.3	78.8	79.0
South Carolina .....	363.3	362.8	362.3	362.2	361.5	361.8	362.1	362.2	362.2	361.4	362.5	364.2	364.2
South Dakota .....	49.7	49.9	50.2	49.3	49.3	49.7	49.7	49.9	49.0	49.6	49.6	49.2	48.8
Tennessee .....	516.6	517.1	517.3	517.1	515.3	516.0	517.5	517.7	517.8	518.2	518.5	516.4	516.4
Texas .....	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	1,093.4	1,095.9	1,097.2	1,098.9
Utah .....	132.8	132.6	133.3	133.4	133.7	133.6	134.0	134.0	135.1	135.3	135.4	135.4	135.2
Vermont .....	46.3	46.2	46.5	46.5	46.7	46.9	46.9	47.2	47.3	47.4	47.3	47.9	47.7
Virginia .....	403.8	403.0	403.8	404.1	403.9	405.3	405.3	405.8	406.4	406.6	407.6	407.5	405.2
Washington .....	367.1	369.6	372.0	373.2	374.2	373.8	375.1	376.0	376.5	377.4	377.8	376.9	378.3
West Virginia .....	81.5	81.4	80.8	81.6	81.1	82.2	82.4	82.7	83.0	83.1	82.9	83.1	83.1
Wisconsin .....	608.8	609.3	610.3	612.3	612.6	614.4	615.8	617.4	620.8	619.4	620.0	620.1	619.7
Wyoming .....	10.8	10.8	10.8	10.8	11.0	10.9	10.9	10.9	10.9	10.8	11.0	11.0	11.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
	Transportation and public utilities												
Alabama .....	91.3	91.3	91.3	89.6	91.5	91.4	90.7	91.0	91.6	91.7	91.8	91.5	91.8
Alaska .....	24.1	24.0	24.0	24.2	24.3	24.3	24.0	24.4	24.4	24.7	24.6	25.0	25.5
Arizona .....	96.5	96.8	95.4	92.5	96.4	96.0	97.0	97.8	98.2	97.0	97.5	97.7	98.6
Arkansas .....	65.4	65.3	65.9	64.7	66.1	66.6	66.9	67.2	67.1	67.5	67.7	67.7	67.9
California .....	662.5	664.4	665.5	642.8	669.1	672.7	675.4	675.1	675.6	676.5	679.0	680.1	680.6
Colorado .....	122.1	122.2	121.8	118.7	121.7	122.0	121.8	121.2	122.5	122.5	122.0	122.7	123.0
Connecticut .....	74.6	74.7	74.2	71.9	74.8	75.0	75.3	75.7	75.3	75.8	76.1	76.0	76.7
Delaware .....	15.6	15.7	16.0	15.9	15.7	15.8	15.7	15.8	15.5	15.6	15.6	15.6	15.7
District of Columbia .....	17.8	17.8	17.7	17.7	17.5	17.5	17.5	17.5	17.7	17.3	17.2	17.1	17.0
Florida .....	326.5	327.1	328.8	321.8	330.3	330.3	330.9	332.2	335.6	336.2	338.1	336.6	338.9
Georgia .....	229.6	229.9	231.3	226.5	233.6	234.8	235.7	236.4	236.3	237.5	238.4	238.4	239.3
Hawaii .....	41.4	41.2	41.7	41.5	41.4	41.4	41.5	41.0	41.1	41.2	40.9	40.2	40.3
Idaho .....	24.1	24.3	24.0	23.9	24.0	23.9	24.1	24.2	24.7	24.4	25.8	24.4	24.4
Illinois .....	337.8	338.8	336.1	323.3	338.9	340.3	340.8	342.0	342.0	341.3	342.1	343.7	345.5
Indiana .....	141.0	140.3	138.8	136.1	140.2	140.4	140.7	141.5	142.3	142.6	142.8	142.9	142.6
Iowa .....	66.0	65.8	65.3	62.9	65.4	66.2	66.5	66.7	66.9	67.0	67.2	68.1	68.2
Kansas .....	72.2	71.9	71.9	72.5	72.8	73.0	73.0	72.9	72.9	73.0	73.3	73.5	74.1
Kentucky .....	97.3	97.3	97.1	90.9	97.7	98.5	98.6	99.4	99.5	99.7	100.0	101.5	101.7
Louisiana .....	110.0	110.2	111.2	109.7	111.5	111.8	111.8	112.1	111.7	112.5	112.8	113.4	113.8
Maine .....	23.1	23.4	23.5	22.5	23.5	23.4	23.4	23.5	23.5	23.9	23.8	23.8	24.0
Maryland .....	107.3	107.2	106.7	102.5	106.6	105.7	105.9	106.3	105.3	106.2	105.5	105.4	105.9
Massachusetts .....	133.5	133.3	134.9	131.3	135.7	137.0	136.0	135.3	136.8	137.5	137.6	138.6	137.9
Michigan .....	173.3	173.5	173.8	169.6	174.4	174.7	175.1	175.3	175.4	175.0	174.0	174.4	177.3
Minnesota .....	123.8	123.8	123.8	120.8	124.8	125.2	125.3	126.0	125.9	125.4	125.6	125.6	126.0
Mississippi .....	52.9	52.9	52.9	51.5	53.0	53.4	53.6	53.5	54.1	53.9	53.7	53.9	53.7
Missouri .....	165.4	165.8	165.3	162.0	164.6	164.0	163.6	164.3	165.9	165.4	165.6	166.4	166.1
Montana .....	21.1	21.1	20.9	20.4	21.1	21.2	21.4	21.3	21.5	21.6	21.5	21.6	21.5
Nebraska .....	53.7	53.8	53.7	53.8	54.8	54.2	54.4	54.6	54.9	55.0	54.8	55.1	54.7
Nevada .....	45.5	45.8	46.0	44.9	46.4	46.6	46.7	46.7	46.7	46.9	46.9	47.0	47.3
New Hampshire .....	19.5	19.5	19.8	19.7	19.4	19.3	19.4	19.4	19.7	19.4	19.3	19.8	19.4
New Jersey .....	257.1	257.5	258.3	248.1	258.5	259.9	259.4	260.4	260.4	261.9	261.9	262.0	263.0
New Mexico .....	32.1	32.1	32.0	31.8	32.1	32.7	32.6	32.5	32.5	32.5	32.7	33.0	33.2
New York .....	409.0	409.0	408.2	395.2	410.5	411.3	410.6	410.7	411.7	410.6	411.1	409.8	409.7
North Carolina .....	171.0	170.9	170.3	164.1	169.8	170.8	171.0	170.9	171.0	171.3	170.7	169.8	169.2
North Dakota .....	18.3	18.2	18.1	18.1	18.0	18.0	18.0	18.0	18.3	18.2	18.3	18.4	18.6
Ohio .....	234.8	234.6	233.8	226.0	234.5	234.6	233.8	233.3	235.4	235.4	235.2	234.9	235.2
Oklahoma .....	78.7	79.0	79.5	78.6	79.9	80.3	80.7	80.9	80.7	81.1	81.6	81.7	81.9
Oregon .....	74.6	74.8	74.1	71.2	74.6	74.5	74.6	74.4	74.5	74.6	74.7	75.6	75.5
Pennsylvania .....	278.6	279.1	278.3	267.1	279.9	279.3	278.4	278.2	281.0	280.8	280.4	281.5	280.9
Rhode Island .....	15.5	15.5	15.6	14.8	15.5	15.5	15.7	15.9	15.4	15.9	16.0	15.8	15.7
South Carolina .....	75.2	74.8	75.9	73.8	76.0	76.2	76.5	76.9	75.8	76.3	77.2	77.5	77.2
South Dakota .....	16.4	16.4	16.4	15.7	16.2	16.1	15.9	15.8	16.1	16.0	15.9	16.1	16.1
Tennessee .....	150.7	150.7	150.7	146.4	150.6	150.6	150.4	150.1	153.1	153.0	152.4	153.3	151.4
Texas .....	512.0	514.6	517.2	510.0	519.9	522.4	524.7	526.0	527.8	531.2	532.4	538.0	540.1
Utah .....	56.0	55.7	56.5	54.4	56.8	56.9	57.3	57.7	57.4	57.5	57.8	58.2	58.2
Vermont .....	12.1	12.2	12.3	11.9	12.2	12.3	12.3	12.3	12.4	12.5	12.5	12.6	12.4
Virginia .....	167.2	167.7	168.2	164.8	168.8	170.4	170.7	171.3	170.9	171.6	172.0	173.1	172.2
Washington .....	134.2	134.2	133.9	131.0	133.6	133.7	133.9	133.9	135.6	136.3	136.7	136.9	137.6
West Virginia .....	38.9	38.8	38.8	38.1	39.0	39.0	39.2	38.8	39.2	38.7	38.5	38.6	38.5
Wisconsin .....	124.4	124.2	123.4	119.1	123.1	123.1	123.0	122.5	124.0	124.4	123.8	124.1	124.7
Wyoming .....	13.9	13.9	13.9	13.8	13.9	13.9	14.0	13.9	13.7	13.8	13.9	13.9	14.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
	Trade												
Alabama .....	427.2	427.5	428.0	428.1	428.0	428.8	429.2	429.4	430.3	431.4	432.9	432.2	434.3
Alaska .....	55.7	56.1	56.5	56.4	55.7	55.0	54.9	55.4	55.9	56.4	56.9	56.6	57.2
Arizona .....	478.3	479.8	478.4	480.8	480.9	483.3	487.8	491.3	496.7	497.6	499.0	498.8	501.0
Arkansas .....	251.6	250.9	251.5	251.9	252.4	252.2	253.7	252.7	251.6	251.2	254.4	255.1	256.1
California .....	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	3,107.1	3,114.7	3,117.4	3,128.8
Colorado .....	480.5	481.4	483.8	484.4	483.0	484.3	486.6	486.5	489.5	490.7	491.9	492.2	495.4
Connecticut .....	352.2	352.7	352.7	353.9	355.0	356.6	359.6	362.3	360.2	359.9	359.0	357.9	358.7
Delaware .....	85.2	85.0	85.1	85.3	85.4	85.7	85.9	86.1	86.7	87.7	87.7	87.2	87.2
District of Columbia .....	47.6	47.5	48.5	48.4	48.4	48.6	48.6	48.8	48.6	48.2	48.7	48.1	48.2
Florida .....	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	1,681.8	1,687.8	1,686.9	1,688.5
Georgia .....	907.0	906.4	912.0	919.2	923.2	926.0	929.1	932.4	931.9	936.9	936.5	936.8	940.5
Hawaii .....	135.2	134.8	134.2	134.3	134.7	134.9	134.7	134.4	133.8	133.7	133.3	132.5	132.6
Idaho .....	129.0	128.8	128.9	128.1	128.4	128.7	129.4	129.6	129.6	130.1	129.2	130.1	130.8
Illinois .....	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	1,335.1	1,337.3	1,340.0	1,342.4
Indiana .....	681.5	681.4	683.7	684.7	682.7	682.7	682.9	681.9	676.9	682.5	683.8	684.6	686.5
Iowa .....	345.6	344.9	345.3	344.4	344.5	348.7	348.5	347.7	347.8	348.0	348.5	349.5	350.5
Kansas .....	308.5	309.2	310.8	311.8	311.3	313.3	313.6	314.4	314.7	316.1	316.4	317.3	318.9
Kentucky .....	408.7	409.7	409.0	411.8	409.7	410.2	414.4	416.1	416.2	416.4	415.6	417.4	419.5
Louisiana .....	427.5	426.2	430.1	430.6	429.6	433.1	434.7	436.2	434.7	436.8	436.7	436.0	438.2
Maine .....	138.7	139.6	140.2	140.6	141.2	141.7	142.8	142.4	140.4	139.9	140.8	141.0	140.6
Maryland .....	534.9	534.4	533.4	534.1	533.6	536.2	539.1	539.1	543.2	541.0	541.6	538.9	538.0
Massachusetts .....	705.5	705.6	709.9	713.4	715.6	717.4	722.0	723.6	727.4	729.4	729.2	728.6	732.1
Michigan .....	1,044.1	1,044.0	1,049.1	1,047.2	1,048.6	1,049.7	1,049.7	1,050.9	1,050.2	1,056.0	1,055.3	1,059.1	1,067.3
Minnesota .....	597.5	599.3	602.6	603.6	603.6	605.0	607.0	608.6	605.1	605.5	606.2	604.1	608.5
Mississippi .....	236.5	236.3	237.7	238.5	238.5	238.2	238.0	237.8	238.7	238.6	238.1	239.9	239.7
Missouri .....	622.3	623.4	623.4	623.3	624.2	625.0	625.4	626.4	625.4	626.5	628.4	631.5	632.9
Montana .....	98.7	99.0	100.0	99.9	99.7	99.2	99.3	99.4	98.8	99.4	99.4	99.2	99.7
Nebraska .....	210.0	209.7	210.9	210.8	211.4	211.5	212.0	211.7	214.5	214.2	213.2	214.8	215.4
Nevada .....	177.9	178.2	179.8	180.4	181.1	181.6	182.4	183.1	183.1	184.3	185.9	186.2	186.9
New Hampshire .....	147.7	148.2	149.5	149.1	149.3	150.9	150.1	150.2	149.8	149.3	148.8	149.5	149.1
New Jersey .....	870.3	871.6	871.5	873.5	875.6	876.1	877.8	880.1	879.5	885.9	886.6	884.3	890.7
New Mexico .....	167.4	168.0	167.4	167.3	166.9	168.1	168.8	169.1	168.7	169.2	169.9	169.7	171.3
New York .....	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	1,650.1	1,654.3	1,657.3	1,659.9
North Carolina .....	839.0	840.1	842.5	840.6	841.2	839.8	845.1	840.5	841.8	846.6	847.2	847.1	846.2
North Dakota .....	79.5	80.5	80.5	80.9	80.7	81.4	81.5	82.0	81.3	81.9	81.5	80.9	80.6
Ohio .....	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	1,317.6	1,318.1	1,316.5	1,318.9
Oklahoma .....	323.9	323.8	323.4	324.2	323.6	324.4	326.6	327.3	326.4	327.0	327.9	328.3	328.8
Oregon .....	376.8	377.4	378.7	378.8	378.0	380.9	381.9	384.8	383.0	384.5	387.0	386.5	388.6
Pennsylvania .....	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	1,221.3	1,224.1	1,227.9	1,229.6
Rhode Island .....	98.0	97.8	98.4	98.4	98.7	98.8	98.7	98.6	98.5	99.2	99.0	98.6	98.9
South Carolina .....	409.5	411.3	413.2	413.3	414.2	415.8	426.5	427.6	430.0	431.0	433.2	436.2	437.6
South Dakota .....	89.0	88.5	88.5	88.9	88.0	88.2	88.3	88.1	87.2	87.5	87.3	87.9	89.3
Tennessee .....	607.4	607.1	607.0	607.8	608.5	610.7	614.8	618.4	618.1	619.5	620.1	624.6	621.1
Texas .....	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	2,086.0	2,091.1	2,092.0	2,097.7
Utah .....	238.0	238.2	238.7	239.3	239.8	240.2	241.2	242.7	242.7	243.9	245.0	244.2	244.8
Vermont .....	65.2	65.1	65.4	65.0	65.0	65.0	65.1	65.3	64.8	65.0	65.4	65.2	65.5
Virginia .....	721.5	721.7	721.3	723.3	724.3	730.0	732.3	734.4	730.9	735.3	737.5	735.4	736.5
Washington .....	607.1	608.1	611.0	609.0	608.2	610.1	611.9	612.8	615.4	618.1	621.3	621.4	625.5
West Virginia .....	161.4	161.6	161.2	160.9	161.0	164.1	164.3	164.5	163.4	163.6	164.7	163.9	162.2
Wisconsin .....	602.8	602.7	605.2	608.9	607.4	607.8	608.5	609.5	608.6	611.7	613.4	613.0	615.4
Wyoming .....	52.6	52.5	52.3	52.1	51.9	52.5	52.3	52.3	52.5	51.9	52.3	52.4	52.3

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				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
	Finance, insurance, and real estate												
Alabama .....	84.2	84.2	84.7	84.7	84.7	84.9	84.9	85.1	85.1	85.3	85.6	85.8	86.4
Alaska .....	12.2	12.3	12.3	12.4	12.3	12.2	12.2	12.2	12.1	12.1	12.2	12.3	12.3
Arizona .....	125.9	126.5	127.3	127.6	128.0	129.2	130.0	130.3	130.5	131.4	132.4	132.9	133.7
Arkansas .....	44.1	43.9	44.1	44.2	44.2	44.3	44.4	44.5	44.3	44.4	44.8	44.8	44.8
California .....	754.5	756.7	759.3	760.0	761.2	763.5	764.7	765.1	765.8	769.9	772.7	776.1	779.6
Colorado .....	126.4	127.1	128.3	128.7	128.7	129.0	129.5	130.0	130.0	130.9	131.2	130.7	131.3
Connecticut .....	131.5	130.4	130.9	131.1	131.4	131.8	132.8	133.6	133.7	133.8	134.7	134.5	135.4
Delaware .....	46.5	47.0	47.3	47.6	48.3	48.5	48.2	48.6	48.4	48.6	48.9	49.5	49.7
District of Columbia .....	28.5	28.4	28.5	28.5	28.5	28.4	28.3	28.4	28.9	28.4	28.5	28.4	28.4
Florida .....	408.0	408.3	410.1	411.4	413.1	416.8	419.3	419.2	418.8	419.9	422.8	424.5	426.8
Georgia .....	186.0	186.1	187.0	188.5	189.2	190.6	190.8	191.7	191.8	192.8	193.8	194.5	195.1
Hawaii .....	36.3	36.2	36.1	36.1	36.0	35.9	35.8	35.7	35.6	35.3	35.3	35.3	35.1
Idaho .....	25.1	25.1	25.7	25.7	25.8	25.7	25.6	25.6	25.7	26.0	26.2	26.5	26.6
Illinois .....	396.5	397.2	399.1	400.9	401.0	402.9	404.3	405.2	406.3	406.5	406.8	407.9	409.2
Indiana .....	137.8	137.7	139.0	139.3	139.6	139.9	140.1	140.4	140.2	140.0	140.2	140.6	140.8
Iowa .....	79.0	79.2	79.5	79.6	79.8	80.5	80.7	80.9	81.3	81.0	81.1	81.3	81.8
Kansas .....	61.1	61.1	60.5	60.7	60.7	60.7	60.8	60.9	60.8	61.1	61.0	61.4	61.2
Kentucky .....	68.8	68.5	69.9	70.2	70.1	70.2	70.4	70.6	70.5	70.7	70.8	71.1	71.2
Louisiana .....	85.4	85.5	85.9	86.0	86.0	86.1	86.5	86.8	86.5	86.6	86.8	86.5	86.6
Maine .....	28.1	28.3	28.7	28.7	28.6	28.8	29.0	29.2	29.4	29.7	30.2	30.2	30.4
Maryland .....	130.4	130.7	130.4	130.7	130.8	130.7	130.9	131.3	131.5	131.8	131.1	131.9	132.3
Massachusetts .....	212.3	212.5	212.3	213.2	213.9	214.6	215.2	215.7	215.9	216.1	216.5	216.3	216.7
Michigan .....	206.2	206.2	205.5	204.9	205.7	206.2	206.6	207.1	207.9	208.9	209.4	209.7	187.8
Minnesota .....	145.5	145.7	146.2	146.4	146.7	147.9	148.5	149.1	149.2	149.8	149.9	150.9	151.3
Mississippi .....	41.7	41.7	41.4	40.6	40.8	41.1	41.1	41.1	41.2	41.5	41.3	41.5	41.5
Missouri .....	153.8	154.0	154.4	153.7	154.1	154.7	154.8	155.5	155.8	156.0	156.7	156.8	157.4
Montana .....	16.3	16.4	16.4	16.5	16.6	16.6	16.6	16.6	16.7	16.8	16.7	16.9	16.9
Nebraska .....	54.1	54.2	54.7	54.8	55.0	55.3	55.4	55.9	55.8	56.4	56.5	56.9	57.1
Nevada .....	39.9	40.1	40.4	40.4	40.5	40.9	41.1	41.2	41.4	41.5	41.7	41.8	42.1
New Hampshire .....	29.3	29.4	29.6	29.6	29.4	29.5	29.4	29.2	29.3	29.3	29.4	29.8	29.7
New Jersey .....	238.3	238.6	237.9	238.2	238.8	239.9	240.9	242.2	243.3	244.1	244.0	244.6	244.2
New Mexico .....	31.3	31.4	31.4	31.4	31.2	31.2	31.3	31.4	31.5	31.5	31.6	31.5	31.5
New York .....	719.8	721.1	720.3	720.7	721.3	721.3	721.5	722.1	721.3	724.1	725.8	726.3	727.3
North Carolina .....	166.1	166.4	167.6	168.0	168.3	168.5	168.9	169.3	170.6	172.5	173.4	173.0	173.7
North Dakota .....	14.6	14.7	14.9	14.9	14.9	15.0	15.0	15.2	15.3	15.4	15.3	15.4	15.4
Ohio .....	287.0	286.6	286.7	287.5	287.9	288.4	288.7	288.9	290.0	289.8	290.5	291.9	291.5
Oklahoma .....	69.1	69.2	69.3	69.3	69.5	69.9	70.2	70.2	70.3	70.5	70.7	70.9	71.1
Oregon .....	94.9	94.9	95.4	95.5	95.2	95.7	96.1	96.0	96.4	96.0	96.7	96.5	96.9
Pennsylvania .....	312.4	312.8	312.4	312.5	313.3	314.4	315.3	317.6	317.5	318.5	318.5	319.3	319.5
Rhode Island .....	26.5	26.5	26.7	26.6	26.6	26.6	26.7	26.6	26.9	27.0	26.8	27.0	27.4
South Carolina .....	74.6	74.6	75.1	75.2	75.2	75.3	75.3	75.8	76.0	76.6	76.9	77.6	78.1
South Dakota .....	20.8	20.9	21.1	21.1	21.2	21.4	21.6	21.7	21.7	21.6	21.6	21.7	22.0
Tennessee .....	120.2	120.7	120.7	120.8	121.6	122.0	121.7	121.7	123.4	123.5	123.2	122.7	122.9
Texas .....	462.3	463.4	465.2	466.7	467.9	469.0	469.7	471.2	473.5	475.6	477.4	478.5	479.6
Utah .....	52.5	52.6	52.8	52.9	53.2	53.6	54.0	53.9	53.7	53.8	53.7	53.7	53.5
Vermont .....	12.2	12.3	12.4	12.4	12.4	12.3	12.3	12.2	12.2	12.1	12.1	12.2	12.3
Virginia .....	167.6	168.0	168.1	168.1	167.6	168.6	169.1	169.5	170.6	170.7	170.7	170.6	170.6
Washington .....	127.6	127.0	129.2	129.6	129.8	130.3	130.4	131.0	131.5	132.0	132.5	133.7	134.5
West Virginia .....	28.2	28.1	28.3	28.3	28.3	28.5	28.5	28.6	28.4	28.3	28.4	28.4	28.3
Wisconsin .....	139.8	140.3	140.5	140.4	140.5	141.1	141.8	141.9	141.8	142.2	142.3	142.6	143.0
Wyoming .....	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.3	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				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>Services</b>													
Alabama .....	426.7	429.1	432.0	432.0	432.0	433.2	433.9	434.3	435.1	435.6	438.0	437.8	438.9
Alaska .....	65.5	65.3	65.6	65.8	66.0	66.1	66.1	66.0	66.5	67.0	67.1	67.4	67.8
Arizona .....	592.8	595.7	600.1	603.3	607.2	608.8	612.5	616.3	617.3	619.9	621.1	624.3	631.3
Arkansas .....	252.1	252.4	253.4	255.6	255.8	256.3	257.3	257.7	257.2	259.6	260.9	263.0	263.4
California .....	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	4,168.6	4,180.9	4,198.7	4,216.9
Colorado .....	593.7	596.5	602.2	600.3	606.7	608.7	610.4	610.8	609.5	607.4	609.8	609.0	614.7
Connecticut .....	493.6	495.7	495.4	500.8	500.7	503.5	506.4	508.7	506.6	506.9	505.4	509.3	508.8
Delaware .....	105.9	107.0	108.5	108.7	108.5	108.8	109.5	109.9	110.2	110.7	111.0	110.9	112.2
District of Columbia .....	263.7	265.0	267.7	265.6	267.6	267.0	266.0	265.6	266.3	266.3	267.5	265.7	266.2
Florida .....	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	2,347.9	2,363.5	2,370.1	2,389.5
Georgia .....	930.9	932.8	938.8	945.1	955.2	963.1	967.4	973.2	972.3	981.5	982.8	983.4	985.8
Hawaii .....	168.6	169.2	169.7	169.7	169.7	170.1	170.3	169.5	168.4	169.1	169.7	170.3	169.6
Idaho .....	121.4	121.9	124.9	123.7	121.7	124.0	123.9	123.9	121.8	121.4	121.5	121.2	121.7
Illinois .....	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	1,716.7	1,717.1	1,722.6	1,732.9
Indiana .....	680.0	680.1	683.5	686.3	689.0	691.2	696.7	700.7	691.3	692.1	693.1	699.4	702.4
Iowa .....	365.0	366.1	366.3	365.4	364.9	368.3	369.1	369.9	371.6	373.0	373.9	376.6	376.4
Kansas .....	315.2	316.8	318.4	319.8	321.4	323.2	324.1	325.0	324.9	325.8	326.9	329.5	329.0
Kentucky .....	422.2	423.7	426.2	429.0	429.7	430.7	431.7	433.3	432.0	432.3	434.5	437.5	441.7
Louisiana .....	494.7	495.5	501.3	500.2	502.5	503.8	504.6	506.0	507.4	507.7	511.0	511.6	512.0
Maine .....	156.3	157.1	158.0	158.5	159.2	159.7	160.5	160.7	160.6	161.6	162.0	162.4	163.1
Maryland .....	752.1	753.2	754.1	755.6	756.8	760.4	762.7	764.0	763.1	764.5	763.7	762.3	764.8
Massachusetts .....	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	1,126.2	1,133.6	1,140.3	1,147.5
Michigan .....	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	1,243.7	1,246.3	1,247.9	1,259.3
Minnesota .....	698.3	700.4	703.2	705.4	706.1	706.8	708.9	710.5	708.1	714.6	716.3	718.2	723.9
Mississippi .....	256.9	255.3	258.7	259.9	261.0	261.1	261.5	261.3	262.7	263.7	263.8	263.8	266.4
Missouri .....	734.4	736.9	737.5	738.2	738.6	740.3	744.3	746.5	746.2	747.0	740.7	742.1	750.3
Montana .....	104.8	105.3	105.5	105.6	105.5	105.9	106.0	106.6	106.1	107.1	107.0	107.1	107.7
Nebraska .....	227.7	228.2	230.0	230.6	232.0	232.8	233.4	233.3	234.3	236.8	235.6	236.1	237.8
Nevada .....	379.6	380.1	381.8	383.2	385.1	386.1	386.7	387.2	386.5	389.6	390.0	392.2	392.5
New Hampshire .....	165.4	164.9	166.4	166.1	164.9	166.1	166.0	165.7	165.2	165.3	164.0	164.2	165.1
New Jersey .....	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	1,198.2	1,203.7	1,206.3	1,211.9
New Mexico .....	194.3	194.6	194.9	195.2	196.0	197.2	197.4	197.2	196.8	197.7	197.7	197.7	198.5
New York .....	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	2,759.4	2,769.0	2,775.8
North Carolina .....	861.3	864.5	878.2	882.1	886.5	891.3	896.2	899.5	899.8	904.2	905.4	909.5	914.6
North Dakota .....	86.5	87.0	87.5	87.1	87.1	87.2	87.5	87.8	88.4	89.1	89.0	89.1	89.9
Ohio .....	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	1,494.3	1,500.5	1,501.6	1,510.1
Oklahoma .....	377.5	377.4	378.7	380.7	382.0	381.7	382.6	383.0	382.9	385.2	386.2	389.7	395.0
Oregon .....	401.0	399.7	403.7	403.8	404.2	404.5	404.2	408.7	412.0	412.9	412.7	414.7	415.2
Pennsylvania .....	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	1,733.9	1,732.6	1,733.4	1,734.3
Rhode Island .....	151.2	150.4	151.2	151.7	152.3	152.5	152.3	152.1	151.9	151.7	151.6	152.2	152.9
South Carolina .....	391.3	392.3	396.3	399.1	398.5	398.6	400.2	401.4	409.3	410.9	413.0	415.4	416.3
South Dakota .....	92.3	92.1	92.7	92.7	92.8	92.7	92.2	92.5	92.9	94.4	94.5	95.0	95.7
Tennessee .....	683.3	685.5	687.7	689.3	688.2	690.6	692.6	691.1	699.0	698.7	700.4	696.6	697.9
Texas .....	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	2,473.4	2,479.6	2,492.8	2,501.6
Utah .....	267.4	268.3	270.0	271.7	272.5	273.6	275.6	276.4	277.7	277.1	279.1	278.7	279.8
Vermont .....	83.5	83.5	83.8	84.1	84.0	84.0	84.3	84.7	83.9	84.2	84.4	84.8	85.9
Virginia .....	965.9	973.8	976.8	981.3	984.9	989.3	991.9	999.2	1,004.5	1,007.8	1,014.7	1,018.1	1,026.1
Washington .....	675.6	675.9	677.5	680.2	680.8	683.3	686.6	689.4	689.5	695.6	698.8	704.6	709.0
West Virginia .....	197.3	198.4	199.3	199.8	200.6	202.8	202.9	202.5	202.5	203.4	203.7	202.7	202.8
Wisconsin .....	673.0	675.6	683.0	684.8	687.5	688.8	690.7	692.3	693.5	691.0	693.6	696.0	701.1
Wyoming .....	49.1	48.5	49.0	48.8	48.6	48.9	48.9	49.0	48.8	48.5	48.8	48.7	49.6

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>Government</b>													
Alabama .....	345.8	345.3	345.3	346.0	346.2	347.0	347.1	347.3	346.7	346.2	346.3	345.2	345.4
Alaska .....	73.1	72.9	73.5	73.0	72.8	72.9	73.3	73.5	73.1	73.3	73.2	73.6	72.9
Arizona .....	326.8	327.3	318.2	325.7	326.6	327.0	327.3	327.5	325.4	329.5	332.6	332.3	331.8
Arkansas .....	182.8	182.9	184.0	185.6	183.7	182.8	183.5	183.9	183.7	184.0	184.7	185.3	185.2
California .....	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	2,161.0	2,170.2	2,175.6	2,178.5
Colorado .....	313.8	314.5	315.6	315.3	316.4	316.2	316.2	317.0	318.2	317.8	318.0	318.3	319.3
Connecticut .....	224.5	224.4	223.5	224.2	225.2	225.3	225.6	226.3	225.8	227.0	226.8	226.2	225.1
Delaware .....	53.1	53.2	53.4	53.7	53.9	53.4	53.6	53.8	53.9	53.8	53.7	54.1	54.8
District of Columbia .....	233.7	232.7	235.1	232.9	231.4	229.9	229.3	228.6	230.0	227.9	227.2	228.8	228.8
Florida .....	941.7	942.8	938.8	942.2	944.4	944.8	949.3	950.5	956.9	953.2	951.3	949.1	954.5
Georgia .....	575.9	576.2	578.4	580.0	581.1	581.3	581.1	582.9	584.0	586.2	587.1	588.0	590.2
Hawaii .....	110.7	111.4	110.6	112.7	114.4	112.7	112.1	111.6	111.3	110.8	111.3	111.4	112.1
Idaho .....	99.0	98.9	99.7	100.1	99.7	99.7	99.6	99.4	101.1	101.4	102.1	102.1	100.9
Illinois .....	806.5	804.6	808.1	808.8	808.3	807.5	806.2	804.1	803.8	801.2	803.4	804.1	803.8
Indiana .....	393.4	395.0	393.4	392.1	393.0	389.4	386.1	390.4	395.2	391.0	389.9	391.4	397.3
Iowa .....	234.1	234.3	234.5	234.5	235.0	236.8	233.4	234.6	236.8	237.8	237.5	238.6	237.6
Kansas .....	236.7	235.7	235.8	235.2	234.7	237.0	235.2	237.8	239.4	239.0	239.7	236.8	241.2
Kentucky .....	290.8	291.3	291.5	291.1	290.3	290.2	291.0	291.1	294.1	292.5	294.3	293.1	292.8
Louisiana .....	362.7	364.1	361.9	364.5	365.3	365.9	366.5	365.2	365.4	367.7	367.0	367.4	367.9
Maine .....	92.6	92.9	92.9	92.9	92.9	93.1	92.8	93.0	91.6	93.0	92.5	92.1	91.4
Maryland .....	417.0	418.1	420.1	417.7	418.4	416.9	416.0	414.8	420.4	420.4	419.8	420.3	419.9
Massachusetts .....	404.4	404.9	407.2	407.5	407.3	406.9	407.3	409.0	408.5	409.3	407.7	408.8	409.7
Michigan .....	657.3	649.9	646.1	644.6	652.6	647.3	643.9	650.0	654.7	655.1	652.3	655.5	657.8
Minnesota .....	377.8	379.1	380.3	382.9	379.9	379.8	380.1	379.9	379.7	381.1	382.6	380.2	380.7
Mississippi .....	217.7	217.1	218.8	222.3	220.3	220.3	220.3	220.3	220.2	221.7	220.7	221.3	221.4
Missouri .....	414.3	415.9	414.6	415.7	415.6	415.4	414.1	416.4	416.4	418.3	415.3	416.5	419.6
Montana .....	76.7	74.4	76.5	76.7	77.0	77.3	77.3	77.9	77.0	77.0	77.6	77.8	78.8
Nebraska .....	151.6	152.0	153.6	153.3	152.3	153.3	153.9	154.0	152.8	153.6	152.7	153.3	151.5
Nevada .....	105.8	109.2	106.9	107.2	107.4	108.0	108.0	109.2	108.4	109.5	109.3	110.5	109.5
New Hampshire .....	78.9	78.5	79.5	78.8	77.8	78.2	78.4	75.6	77.8	78.4	77.9	79.5	79.3
New Jersey .....	569.1	569.4	568.8	568.3	575.9	570.7	570.0	570.5	570.0	569.6	568.4	566.6	567.5
New Mexico .....	177.3	178.1	178.8	178.4	177.8	178.0	178.2	178.6	178.7	178.3	179.1	177.6	177.0
New York .....	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	1,370.6	1,371.4	1,368.0	1,372.6
North Carolina .....	573.8	574.4	578.9	599.2	586.9	588.4	589.0	589.0	587.5	593.0	592.3	594.5	598.5
North Dakota .....	71.1	68.5	69.4	69.7	71.1	70.3	70.4	70.5	70.9	71.1	70.9	70.9	70.4
Ohio .....	758.1	760.5	764.3	764.2	763.0	760.5	761.4	760.9	763.4	760.6	761.7	762.7	766.0
Oklahoma .....	275.1	269.3	270.7	272.6	278.7	276.8	277.6	277.3	277.6	278.7	280.4	280.1	281.0
Oregon .....	249.2	250.5	248.7	251.2	251.7	252.1	248.9	253.9	254.7	255.6	256.3	256.3	256.9
Pennsylvania .....	716.9	704.1	711.6	713.5	715.2	713.7	712.7	713.8	717.8	712.2	711.2	712.6	712.3
Rhode Island .....	63.3	63.8	63.5	64.1	64.4	64.1	63.8	64.8	65.1	65.3	64.7	65.8	66.0
South Carolina .....	299.0	299.2	299.7	300.0	299.8	299.9	290.9	300.0	303.4	303.7	304.2	304.1	303.8
South Dakota .....	70.0	67.2	69.9	70.1	70.5	70.4	70.1	70.1	69.9	69.8	70.7	70.5	70.3
Tennessee .....	380.5	388.0	385.4	384.8	384.7	384.0	383.9	383.6	385.6	385.6	385.4	385.1	385.7
Texas .....	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	1,495.1	1,502.0	1,507.7	1,508.8
Utah .....	171.4	171.7	171.8	172.0	172.7	172.7	174.3	174.8	175.0	175.7	177.5	178.2	178.0
Vermont .....	45.6	45.5	45.6	45.4	45.4	45.5	45.4	45.7	45.4	45.6	45.4	45.4	44.8
Virginia .....	595.6	596.0	591.0	594.0	594.4	597.8	598.6	598.5	595.7	596.7	597.2	597.8	599.9
Washington .....	455.9	459.2	462.0	459.3	459.1	459.0	456.3	460.3	456.3	457.5	457.0	459.5	457.4
West Virginia .....	139.0	138.9	138.9	139.2	139.6	140.5	140.9	140.8	139.3	140.2	139.9	139.8	151.0
Wisconsin .....	386.7	386.5	383.2	385.2	385.6	387.9	387.7	388.7	390.0	391.3	390.0	392.5	390.6
Wyoming .....	57.7	57.2	59.9	60.3	57.3	57.0	56.9	57.1	56.9	57.0	57.3	57.5	58.8

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 workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>	June <sup>P</sup>
<b>Total private</b> .....	34.5	34.5	34.7	34.6	34.6	34.7	34.7	34.8	34.7	34.6	34.5	34.7	34.6
<b>Goods-producing</b> .....	41.2	41.3	41.3	41.3	41.3	41.2	41.4	41.6	41.4	41.0	40.8	41.1	41.0
<b>Mining</b> .....	45.6	45.3	45.6	45.1	45.2	45.2	44.9	45.4	44.4	43.8	44.1	44.3	43.5
<b>Construction</b> .....	38.9	39.0	38.8	39.1	38.9	38.2	39.0	39.8	39.2	38.5	38.7	38.6	38.4
<b>Manufacturing</b> .....	41.9	41.9	41.9	41.9	42.0	42.1	42.2	42.1	42.0	41.8	41.4	41.8	41.8
<i>Overtime hours</i> .....	4.7	4.8	4.8	4.7	4.8	4.9	4.9	4.9	4.8	4.8	4.5	4.6	4.6
<b>Durable goods</b> .....	42.7	42.7	42.8	42.7	42.8	42.9	43.0	42.8	42.8	42.5	41.9	42.4	42.4
<i>Overtime hours</i> .....	5.0	5.1	5.1	5.0	5.1	5.2	5.2	5.2	5.1	5.0	4.6	4.8	4.8
Lumber and wood products .....	41.3	41.2	41.0	40.9	41.0	41.1	41.0	41.2	41.1	41.2	41.2	41.1	41.3
Furniture and fixtures .....	40.0	40.0	40.2	40.4	40.4	40.6	40.7	41.0	41.0	40.7	40.7	40.7	40.9
Stone, clay, and glass products .....	43.0	43.2	43.1	43.2	43.2	42.9	43.6	43.7	43.6	43.2	43.3	43.5	43.3
Primary metal industries .....	44.8	44.6	45.0	45.0	45.2	45.2	45.2	45.2	44.8	44.6	43.9	44.5	44.5
Blast furnaces and basic steel products .....	44.7	44.3	45.1	45.0	45.4	45.3	45.4	46.0	45.4	45.3	44.9	45.6	45.0
Fabricated metal products .....	42.5	42.5	42.5	42.5	42.6	42.7	42.9	42.7	42.7	42.4	41.8	42.3	42.3
Industrial machinery and equipment .....	43.4	43.5	43.5	43.5	43.6	43.7	43.7	43.6	43.4	43.3	42.6	43.0	43.2
Electronic and other electrical equipment .....	42.0	42.1	41.9	41.8	41.9	42.0	42.0	41.8	41.9	41.4	41.1	41.5	41.5
Transportation equipment .....	44.3	44.1	44.4	44.0	44.3	44.1	44.5	43.9	43.8	43.4	42.1	43.3	42.8
Motor vehicles and equipment .....	44.9	44.4	44.9	44.3	44.6	44.5	44.9	43.9	43.8	43.5	42.0	43.3	42.4
Instruments and related products .....	41.9	41.8	42.2	42.0	42.0	42.2	41.9	41.9	42.0	41.5	41.3	41.4	41.2
Miscellaneous manufacturing .....	40.2	40.4	40.2	40.3	40.4	40.5	40.6	40.4	40.4	40.5	40.1	40.0	40.1
<b>Nondurable goods</b> .....	40.7	40.7	40.7	40.8	40.9	41.0	41.0	41.1	40.9	40.8	40.7	41.0	41.0
<i>Overtime hours</i> .....	4.2	4.3	4.3	4.3	4.4	4.5	4.4	4.4	4.4	4.4	4.2	4.4	4.4
Food and kindred products .....	41.0	41.2	41.2	41.2	41.3	41.5	41.6	41.8	41.5	41.5	41.3	41.8	41.8
Tobacco products .....	38.3	36.6	38.0	38.2	39.1	39.0	38.8	38.3	38.5	37.7	38.2	39.2	38.8
Textile mill products .....	41.3	41.4	41.3	41.5	41.5	41.5	41.7	41.8	41.5	41.2	41.0	41.3	41.1
Apparel and other textile products .....	37.3	37.1	37.1	37.3	37.3	37.2	37.5	37.4	37.4	37.2	37.7	37.4	37.3
Paper and allied products .....	43.5	43.5	43.5	43.6	43.7	44.0	43.7	43.6	43.4	43.4	43.0	43.4	43.6
Printing and publishing .....	38.3	38.4	38.3	38.6	38.6	38.8	38.6	38.5	38.5	38.4	38.2	38.4	38.4
Chemicals and allied products .....	43.1	43.1	43.3	43.3	43.4	43.4	43.2	43.5	43.4	43.4	43.1	43.0	43.2
Petroleum and coal products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products .....	41.6	41.7	41.8	41.7	42.1	42.0	42.1	42.0	41.8	41.5	41.7	42.1	42.1
Leather and leather products .....	38.3	38.3	38.1	38.4	38.3	38.2	38.4	38.3	38.8	37.9	37.3	37.4	37.4
<b>Service-producing</b> .....	32.7	32.7	32.9	32.8	32.9	32.9	32.9	33.0	33.0	32.8	32.9	33.0	32.9
<b>Transportation and public utilities</b> .....	39.5	39.3	40.1	39.9	39.8	39.9	39.9	40.0	39.9	39.8	39.6	39.9	39.7
<b>Wholesale trade</b> .....	38.4	38.3	38.4	38.4	38.4	38.5	38.3	38.5	38.5	38.3	38.3	38.5	38.2
<b>Retail trade</b> .....	28.8	28.9	29.0	28.9	29.0	29.0	28.9	29.0	29.0	28.9	29.0	29.1	29.0
<b>Finance, insurance, and real estate</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Services</b> .....	32.5	32.5	32.7	32.6	32.6	32.7	32.7	32.8	32.7	32.6	32.6	32.7	32.7

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

<sup>2</sup> These series are not published seasonally adjusted because the seasonal components, 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 1997 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1994 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

(1982=100)

Industry	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>	June <sup>P</sup>
<b>Total private</b> .....	140.9	141.3	141.7	142.1	142.6	143.2	143.6	144.6	144.4	143.8	144.0	144.9	144.8
<b>Goods-producing</b> .....	114.0	114.2	114.4	114.6	114.9	114.9	116.0	117.1	116.4	115.1	114.9	115.2	114.9
<b>Mining</b> .....	58.0	57.8	58.1	57.6	57.8	57.9	57.5	58.3	57.0	55.6	55.4	55.7	54.0
<b>Construction</b> .....	155.3	156.1	155.7	157.1	156.3	154.4	159.3	165.0	162.4	158.7	161.5	160.4	160.3
<b>Manufacturing</b> .....	108.8	108.9	109.2	109.2	109.8	110.1	110.6	110.6	110.3	109.7	108.7	109.4	109.1
<b>Durable goods</b> .....	112.2	112.3	113.0	112.8	113.5	113.9	114.6	114.6	114.5	113.7	112.2	113.1	112.8
Lumber and wood products .....	142.6	142.3	141.6	141.2	141.8	142.3	142.6	143.8	143.4	143.6	143.8	143.4	143.7
Furniture and fixtures .....	127.3	127.9	128.0	128.6	128.9	130.2	131.1	132.8	133.1	132.7	133.7	134.0	133.7
Stone, clay, and glass products .....	111.3	112.6	112.3	112.6	113.1	112.6	114.9	116.5	116.2	113.9	114.1	115.2	114.9
Primary metal industries .....	93.9	93.7	95.2	95.4	95.8	95.9	96.3	96.6	95.8	95.5	93.7	94.6	94.8
Blast furnaces and basic steel products .....	72.6	72.0	73.3	73.5	73.8	74.0	73.8	75.6	74.6	74.4	73.4	74.5	73.5
Fabricated metal products .....	117.3	117.2	117.8	117.9	118.5	119.0	119.9	119.8	120.1	119.1	117.5	118.5	118.2
Industrial machinery and equipment .....	108.9	109.3	109.8	109.9	110.9	111.4	111.7	111.7	111.3	111.1	109.1	110.1	110.8
Electronic and other electrical equipment .....	110.7	111.4	111.3	111.3	111.9	112.4	113.0	112.8	112.8	111.3	110.1	110.9	110.7
Transportation equipment .....	128.0	127.7	130.5	128.7	130.2	131.0	131.8	130.0	130.1	128.7	124.6	127.2	124.9
Motor vehicles and equipment .....	168.2	166.5	171.6	167.6	169.2	169.9	171.2	166.8	166.6	164.6	158.9	162.0	157.0
Instruments and related products .....	76.5	76.1	76.7	76.7	76.7	77.0	76.9	77.4	77.6	76.8	76.6	76.6	76.3
Miscellaneous manufacturing .....	103.7	104.2	103.7	103.2	103.4	102.9	103.9	103.8	103.8	104.1	103.4	102.0	102.3
<b>Nondurable goods</b> .....	104.2	104.1	103.9	104.3	104.6	104.9	105.1	105.2	104.6	104.3	104.0	104.4	104.2
Food and kindred products .....	116.0	116.2	115.9	116.4	116.8	117.8	118.4	119.2	118.5	118.5	118.3	119.9	119.5
Tobacco products .....	60.7	58.0	56.5	58.6	62.0	63.7	61.5	60.7	61.0	59.7	62.5	62.1	59.6
Textile mill products .....	89.6	90.0	88.9	89.5	89.7	89.3	89.9	89.6	88.6	87.8	87.4	87.9	86.9
Apparel and other textile products .....	74.2	73.4	73.0	72.8	72.6	72.0	72.2	71.6	70.8	70.2	70.0	68.7	68.2
Paper and allied products .....	110.7	110.7	110.3	110.8	111.2	112.2	111.6	111.6	111.1	111.1	109.9	110.5	110.5
Printing and publishing .....	126.1	126.1	125.5	126.2	126.5	127.2	126.7	126.3	126.0	125.3	124.7	125.6	125.6
Chemicals and allied products .....	100.4	100.4	100.8	101.4	102.0	102.1	102.0	103.1	103.2	103.4	102.7	102.6	103.4
Petroleum and coal products .....	75.0	74.5	75.6	75.0	74.0	74.4	74.2	75.0	71.9	73.6	73.1	74.1	73.3
Rubber and misc. plastics products .....	145.3	145.2	146.0	146.0	147.4	147.2	148.2	148.4	147.9	147.2	148.1	148.9	148.9
Leather and leather products .....	40.6	40.0	39.2	39.5	39.4	38.7	38.9	38.3	38.7	37.3	36.7	36.2	35.6
<b>Service-producing</b> .....	153.0	153.5	154.0	154.5	155.0	155.9	156.0	156.9	157.0	156.7	157.0	158.2	158.2
<b>Transportation and public utilities</b> .....	130.0	129.3	127.5	131.2	130.9	131.1	131.0	131.5	131.1	130.9	130.2	131.8	131.3
<b>Wholesale trade</b> .....	125.8	125.8	126.4	126.4	126.7	127.2	126.9	128.0	128.2	127.6	127.9	128.6	127.8
<b>Retail trade</b> .....	137.2	137.7	138.4	138.1	138.9	139.4	139.2	139.8	139.9	139.3	139.8	141.1	140.6
<b>Finance, insurance, and real estate</b> .....	128.8	129.2	129.8	129.3	130.2	131.5	130.9	132.5	133.4	133.6	134.2	135.1	135.3
<b>Services</b> .....	185.9	186.8	187.9	188.4	189.0	190.3	191.0	192.1	192.0	191.9	192.3	193.6	194.3

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

P = preliminary.

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

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

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	April 1998 <sup>r</sup>	May 1998 <sup>r</sup>	June 1998 <sup>P</sup>	June 1997 to June 1998 <sup>P</sup>	April 1998 to May 1998 <sup>r</sup>	May 1998 To June 1998 <sup>P</sup>
Total .....	229,257	230,786	230,217	2.7	0.7	-0.2
Private sector .....	192,238	193,441	193,157	3.0	.6	-.1
Mining .....	1,333	1,337	1,302	-7.1	.3	-2.6
Construction .....	11,934	11,877	11,855	3.4	-.5	-.2
Manufacturing .....	40,663	40,867	40,791	.6	.5	-.2
Durable goods .....	24,383	24,532	24,494	1.0	.6	-.2
Nondurable goods .....	16,279	16,335	16,297	.0	.3	-.2
Transportation and public utilities .....	13,425	13,594	13,583	3.0	1.3	-.1
Wholesale trade .....	13,539	13,640	13,563	2.4	.7	-.6
Retail trade .....	33,681	33,917	33,880	2.9	.7	-.1
Finance, insurance, and real estate .....	13,764	13,846	13,855	4.0	.6	.1
Services .....	63,899	64,364	64,327	4.6	.7	-.1
Government .....	37,019	37,345	37,060	1.3	.9	-.8

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

<sup>P</sup> = preliminary.

<sup>r</sup> = revised.

NOTE: Data refer to hours of all employees—production workers, nonsupervisory workers, and salaried workers—and are based

largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 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 workers<sup>1</sup> on private nonfarm payrolls by major industry, seasonally adjusted**

Industry	1997							1998					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>	June <sup>P</sup>
Average hourly earnings													
<b>Total private</b> (in current dollars) .....	\$12.24	\$12.27	\$12.34	\$12.37	\$12.43	\$12.47	\$12.50	\$12.54	\$12.59	\$12.63	\$12.70	\$12.73	\$12.74
<b>Goods-producing</b> .....	13.86	13.89	13.95	13.98	14.05	14.10	14.15	14.16	14.21	14.25	14.25	14.27	14.28
<b>Mining</b> .....	16.14	16.15	16.16	16.24	16.37	16.48	16.46	16.47	16.76	16.82	16.72	16.81	16.78
<b>Construction</b> .....	15.97	15.99	16.06	16.10	16.17	16.24	16.34	16.27	16.34	16.40	16.45	16.47	16.52
<b>Manufacturing</b> .....	13.11	13.13	13.20	13.22	13.30	13.34	13.37	13.38	13.42	13.46	13.44	13.46	13.46
<b>Excluding overtime</b> <sup>2</sup> .....	12.42	12.42	12.49	12.50	12.58	12.61	12.63	12.66	12.69	12.73	12.76	12.76	12.75
<b>Service-producing</b> .....	11.70	11.73	11.80	11.83	11.88	11.93	11.95	12.00	12.06	12.10	12.19	12.22	12.24
<b>Transportation and public utilities</b> .....	14.89	14.99	15.02	15.01	15.05	15.10	15.16	15.21	15.25	15.27	15.32	15.31	15.26
<b>Wholesale trade</b> .....	13.37	13.45	13.56	13.54	13.63	13.72	13.71	13.75	13.81	13.84	13.88	13.98	13.93
<b>Retail trade</b> .....	8.30	8.33	8.37	8.42	8.46	8.49	8.51	8.56	8.59	8.64	8.70	8.72	8.71
<b>Finance, insurance, and real estate</b> .....	13.31	13.36	13.51	13.53	13.60	13.65	13.66	13.72	13.83	13.85	14.00	14.02	14.09
<b>Services</b> .....	12.26	12.28	12.35	12.38	12.43	12.48	12.50	12.54	12.60	12.65	12.76	12.81	12.86
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	7.54	7.55	7.58	7.58	7.60	7.62	7.63	7.66	7.69	7.72	7.74	7.73	(4)
<b>Goods-producing</b> .....	8.54	8.55	8.56	8.56	8.59	8.61	8.64	8.64	8.68	8.70	8.68	8.67	(4)
<b>Service-producing</b> .....	7.21	7.22	7.24	7.24	7.26	7.29	7.30	7.33	7.36	7.39	7.43	7.42	(4)
Average weekly earnings													
<b>Total private</b> (in current dollars) .....	422.28	423.32	428.20	428.00	430.08	432.71	433.75	436.39	436.87	437.00	438.15	441.73	440.80
<b>Goods-producing</b> .....	571.03	573.66	576.14	577.37	580.27	580.92	585.81	589.06	588.29	584.25	581.40	586.50	585.48
<b>Mining</b> .....	735.98	731.60	736.90	732.42	739.92	744.90	739.05	747.74	744.14	736.72	737.35	744.68	729.93
<b>Construction</b> .....	621.23	623.61	623.13	629.51	629.01	620.37	637.26	647.55	640.53	631.40	636.62	635.74	634.37
<b>Manufacturing</b> .....	549.31	550.15	553.08	553.92	558.60	561.61	564.21	563.30	563.64	562.63	556.42	562.63	562.63
<b>Service-producing</b> .....	382.59	383.57	388.22	388.02	390.85	392.50	393.16	396.00	397.98	396.88	401.05	403.26	402.70
<b>Transportation and public utilities</b> .....	588.16	589.11	602.30	598.90	598.99	602.49	604.88	608.40	608.48	607.75	606.67	610.87	605.82
<b>Wholesale trade</b> .....	513.41	515.14	520.70	519.94	523.39	528.22	525.09	529.38	531.69	530.07	531.60	538.23	532.13
<b>Retail trade</b> .....	239.04	240.74	242.73	243.34	245.34	246.21	245.94	248.24	249.11	249.70	252.30	253.75	252.59
<b>Finance, insurance, and real estate</b> .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>Services</b> .....	398.45	399.10	403.85	403.59	405.22	408.10	408.75	411.31	412.02	412.39	415.98	418.89	420.52
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	260.18	260.50	262.86	262.09	262.89	264.33	264.80	266.42	266.71	266.95	267.00	268.37	(4)
<b>Goods-producing</b> .....	351.84	353.02	353.68	353.56	354.69	354.87	357.64	359.62	359.15	356.90	354.30	356.32	(4)
<b>Service-producing</b> .....	235.73	236.04	238.32	237.61	238.91	239.77	240.02	241.76	242.97	242.44	244.39	244.99	(4)

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

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

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

<sup>4</sup> Not available.

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

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Total</b> .....		122,973	123,622	125,088	126,153	126,871	-	-	-	-	-
<b>Total private</b> .....		103,055	104,001	104,958	105,944	106,998	84,551	85,392	85,823	86,724	87,614
<b>Mining</b> .....		592	599	577	580	584	448	453	437	441	442
Metal mining .....	10	54.0	55.2	50.2	50.5	51.0	41.6	42.5	38.2	38.4	-
Iron ores .....	101	8.7	9.1	8.3	8.4	-	7.2	7.5	6.9	7.0	-
Copper ores .....	102	15.9	15.9	15.2	15.0	-	12.0	12.0	11.4	11.3	-
Coal mining .....	12	96.8	96.9	92.1	91.9	91.5	79.6	79.4	75.4	75.3	-
Bituminous coal and lignite mining .....	122	90.8	91.0	86.6	86.3	-	74.4	74.4	70.7	70.5	-
Oil and gas extraction .....	13	331.3	335.2	327.4	327.5	330.4	242.4	245.4	241.8	243.1	-
Crude petroleum and natural gas .....	131	141.6	143.3	135.5	134.3	-	81.4	82.5	79.1	79.1	-
Oil and gas field services .....	138	184.8	186.8	187.0	188.3	-	157.1	158.8	158.5	159.9	-
Nonmetallic minerals, except fuels .....	14	110.2	112.1	107.2	109.7	110.9	84.0	85.4	81.8	83.9	-
Crushed and broken stone .....	142	42.5	43.1	41.0	41.8	-	33.3	33.8	32.2	32.9	-
Sand and gravel .....	144	36.9	38.0	35.9	37.3	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	11.8	11.8	11.7	11.7	-	-	-	-	-	-
<b>Construction</b> .....		5,728	5,886	5,758	5,972	6,164	4,455	4,596	4,439	4,636	4,804
General building contractors .....	15	1,306.8	1,350.4	1,346.8	1,383.6	1,440.1	921.8	958.7	937.9	968.4	-
Residential building construction .....	152	677.5	701.9	707.1	727.8	-	460.3	480.6	476.7	492.9	-
Operative builders .....	153	27.1	27.8	27.9	28.4	-	11.1	11.4	11.1	11.4	-
Nonresidential building construction .....	154	602.2	620.7	611.8	627.4	-	450.4	466.7	450.1	464.1	-
Heavy construction, except building .....	16	831.4	845.5	791.3	847.4	874.2	699.6	712.2	659.8	714.0	-
Highway and street construction .....	161	265.7	278.6	232.9	270.2	-	221.2	233.4	187.8	224.1	-
Heavy construction, except highway .....	162	565.7	566.9	558.4	577.2	-	478.4	478.8	472.0	489.9	-
Special trade contractors .....	17	3,589.3	3,690.3	3,620.2	3,740.6	3,849.8	2,833.8	2,925.0	2,840.8	2,953.6	-
Plumbing, heating, and air conditioning .....	171	784.0	803.4	793.7	808.0	-	578.6	595.2	581.9	595.4	-
Painting and paper hanging .....	172	199.7	213.0	196.4	206.9	-	165.8	178.2	161.7	171.7	-
Electrical work .....	173	666.0	683.0	696.5	707.5	-	524.3	539.6	547.9	558.6	-
Masonry, stonework, and plastering .....	174	471.3	480.7	485.7	500.8	-	405.7	415.9	418.5	432.5	-
Carpentry and floor work .....	175	253.4	259.4	257.3	262.5	-	195.0	200.3	194.0	198.1	-
Roofing, siding, and sheet metal work .....	176	244.1	251.7	239.7	246.6	-	195.6	202.4	188.7	195.0	-
<b>Manufacturing</b> .....		18,599	18,735	18,749	18,773	18,870	12,861	12,956	12,946	12,949	13,019
<b>Durable goods</b> .....		10,950	11,028	11,153	11,161	11,209	7,521	7,576	7,661	7,656	7,687
Lumber and wood products .....	24	792.0	803.1	790.9	799.7	811.7	651.6	661.8	649.8	657.1	667.4
Logging .....	241	78.8	82.6	72.9	76.1	-	62.7	66.4	56.7	59.7	-
Sawmills and planing mills .....	242	181.8	183.8	181.4	181.6	-	158.3	160.1	158.3	158.2	-
Sawmills and planing mills, general .....	2421	144.5	146.0	142.9	142.8	-	125.4	126.7	124.1	123.8	-
Hardwood dimension and flooring mills .....	2426	35.4	35.9	36.6	36.8	-	31.3	31.8	32.5	32.7	-
Millwork, plywood, and structural members .....	243	294.4	298.3	299.0	302.6	-	236.6	239.7	240.1	243.5	-
Millwork .....	2431	117.5	118.9	118.3	120.4	-	90.4	91.5	91.7	93.5	-
Wood kitchen cabinets .....	2434	80.9	81.8	83.5	84.3	-	65.4	66.2	67.5	68.1	-
Hardwood veneer and plywood .....	2435	28.6	28.8	28.8	28.9	-	24.4	24.6	24.6	24.6	-
Softwood veneer and plywood .....	2436	29.2	29.6	28.8	28.6	-	27.1	27.4	26.0	26.2	-
Wood containers .....	244	54.0	53.9	53.7	53.0	-	46.2	46.4	45.9	45.3	-
Wood buildings and mobile homes .....	245	93.0	94.0	94.6	96.7	-	74.9	75.7	75.9	77.2	-
Mobile homes .....	2451	70.4	70.8	72.0	73.6	-	59.1	59.6	60.5	61.4	-
Miscellaneous wood products .....	249	90.0	90.5	89.3	89.7	-	72.9	73.5	72.9	73.2	-
Furniture and fixtures .....	25	509.6	512.1	523.3	524.8	525.7	404.7	407.0	417.9	418.7	418.4
Household furniture .....	251	278.0	276.7	284.5	284.2	-	235.0	234.0	241.1	241.1	-
Wood household furniture .....	2511	126.1	126.1	126.1	126.3	-	109.2	109.5	109.4	109.6	-
Upholstered household furniture .....	2512	86.7	86.6	89.5	89.5	-	73.4	73.2	75.9	76.1	-
Metal household furniture .....	2514	20.5	19.4	21.9	21.3	-	17.1	16.1	18.5	18.0	-
Mattresses and bedsprings .....	2515	32.6	32.9	35.3	35.3	-	25.1	25.4	27.5	27.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Furniture and fixtures—Continued											
Office furniture .....	252	62.8	63.7	65.1	65.4	—	46.2	47.2	48.2	48.5	—
Public building and related furniture .....	253	43.5	44.2	45.0	45.5	—	34.3	34.9	35.2	35.7	—
Partitions and fixtures .....	254	85.9	87.6	88.1	88.9	—	63.1	64.9	66.2	66.1	—
Miscellaneous furniture and fixtures .....	259	39.4	39.9	40.6	40.8	—	26.1	26.0	27.2	27.3	—
Stone, clay, and glass products .....	32	557.1	561.3	559.0	565.6	574.4	434.4	438.5	437.0	442.2	449.4
Flat glass .....	321	16.8	16.7	16.5	16.5	—	13.5	13.4	13.2	13.2	—
Glass and glassware, pressed or blown .....	322	71.2	70.6	71.6	70.7	—	58.8	58.3	59.1	58.0	—
Glass containers .....	3221	26.4	25.8	25.4	25.5	—	23.6	23.1	22.7	22.6	—
Pressed and blown glass, nec .....	3229	44.8	44.8	46.2	45.2	—	35.2	35.2	36.4	35.4	—
Products of purchased glass .....	323	62.5	63.1	62.7	63.5	—	48.5	49.2	48.8	49.3	—
Cement, hydraulic .....	324	17.2	17.8	17.4	17.5	—	13.1	13.7	13.2	13.2	—
Structural clay products .....	325	34.8	34.7	33.2	33.3	—	27.3	27.2	25.8	25.9	—
Pottery and related products .....	326	39.2	39.3	38.5	38.1	—	31.2	31.2	30.3	29.9	—
Concrete, gypsum, and plaster products .....	327	221.7	224.6	220.8	227.2	—	170.6	173.4	170.3	176.0	—
Concrete block and brick .....	3271	18.7	19.1	18.2	18.5	—	12.1	12.3	11.5	11.7	—
Concrete products, nec .....	3272	73.7	74.1	74.5	75.5	—	55.7	56.4	57.1	58.2	—
Ready-mixed concrete .....	3273	111.7	113.6	110.2	115.2	—	88.9	90.7	87.6	91.9	—
Misc. nonmetallic mineral products .....	329	78.8	79.4	79.3	79.6	—	60.4	61.0	61.3	61.6	—
Abrasive products .....	3291	20.0	20.2	20.4	20.4	—	15.8	16.1	16.3	16.3	—
Asbestos products .....	3292	2.6	2.6	2.5	2.6	—	2.1	2.1	2.1	2.2	—
Mineral wool .....	3296	24.0	24.4	24.1	24.4	—	—	—	—	—	—
Primary metal industries .....	33	707.2	710.9	717.2	715.1	719.3	552.4	555.6	563.3	560.6	564.4
Blast furnaces and basic steel products .....	331	234.1	235.8	234.2	234.5	235.9	180.2	181.6	181.4	181.7	182.8
Blast furnaces and steel mills .....	3312	162.4	163.0	161.5	161.7	—	126.1	126.7	126.1	126.4	—
Steel pipe and tubes .....	3317	28.0	28.3	28.7	28.8	—	21.2	21.4	21.6	21.7	—
Iron and steel foundries .....	332	129.1	129.0	134.0	132.4	—	106.0	105.8	110.0	108.1	—
Gray and ductile iron foundries .....	3321	80.3	79.5	81.7	80.2	—	66.6	65.7	67.5	65.8	—
Malleable iron foundries .....	3322	4.6	4.6	4.8	4.7	—	3.6	3.6	3.7	3.6	—
Steel foundries, nec .....	3325	26.5	27.0	28.5	28.7	—	21.8	22.2	23.5	23.7	—
Primary nonferrous metals .....	333	39.2	39.3	39.2	39.0	—	30.2	30.3	30.5	30.3	—
Primary aluminum .....	3334	22.2	22.2	22.3	22.3	—	17.9	17.9	18.2	18.2	—
Nonferrous rolling and drawing .....	335	168.2	169.1	168.7	168.4	—	128.7	129.6	129.7	129.3	—
Copper rolling and drawing .....	3351	22.3	22.4	22.3	21.9	—	17.5	17.5	18.0	17.6	—
Aluminum sheet, plate, and foil .....	3353	21.5	21.7	21.0	21.0	—	15.9	16.1	15.7	15.6	—
Nonferrous wire drawing and insulating .....	3357	72.3	72.7	72.7	72.4	—	54.8	55.3	55.3	55.0	—
Nonferrous foundries (castings) .....	336	90.6	91.4	93.1	92.9	—	73.6	74.3	75.6	75.3	—
Aluminum foundries .....	3365	25.0	25.2	26.1	26.1	—	20.5	20.6	21.4	21.4	—
Fabricated metal products .....	34	1,470.9	1,481.1	1,494.2	1,494.4	1,500.4	1,109.0	1,117.3	1,128.9	1,126.6	1,131.0
Metal cans and shipping containers .....	341	37.1	38.1	36.7	36.8	—	31.7	32.7	31.2	31.2	—
Metal cans .....	3411	29.7	30.6	29.5	29.5	—	25.7	26.6	25.5	25.5	—
Cutlery, handtools, and hardware .....	342	125.0	126.0	126.2	126.5	—	95.0	95.9	97.4	97.2	—
Hand and edge tools, and blades and handsaws ...	3423.5	43.1	43.2	43.2	43.4	—	33.3	33.4	33.5	33.5	—
Hardware, nec .....	3429	69.2	69.7	70.0	70.1	—	52.6	53.0	54.0	53.8	—
Plumbing and heating, except electric .....	343	58.3	58.3	58.5	59.0	—	41.8	41.8	41.1	41.8	—
Plumbing fixture fittings and trim .....	3432	23.8	23.8	24.3	24.5	—	17.4	17.4	17.6	17.8	—
Heating equipment, except electric .....	3433	20.4	20.5	20.0	20.3	—	13.7	13.8	12.8	13.3	—
Fabricated structural metal products .....	344	450.1	452.7	453.6	455.8	—	330.6	332.5	331.6	332.5	—
Fabricated structural metal .....	3441	77.9	78.3	78.8	79.3	—	57.5	57.7	57.4	57.8	—
Metal doors, sash, and trim .....	3442	78.6	79.6	77.9	78.7	—	58.7	59.2	57.1	57.7	—
Fabricated plate work (boiler shops) .....	3443	101.7	101.2	101.4	101.2	—	73.1	72.7	73.3	72.6	—
Sheet metal work .....	3444	119.6	120.7	121.6	122.1	—	91.9	93.1	93.2	93.6	—
Architectural metal work .....	3446	30.4	30.4	31.2	31.4	—	21.7	21.8	22.8	22.9	—
Screw machine products, bolts, etc .....	345	104.2	104.7	108.5	108.3	—	81.8	82.2	85.4	85.1	—
Screw machine products .....	3451	54.3	54.5	56.9	56.6	—	44.2	44.5	46.4	46.2	—
Bolts, nuts, rivets, and washers .....	3452	49.9	50.2	51.6	51.7	—	37.6	37.7	39.0	38.9	—
Metal forgings and stampings .....	346	254.8	256.0	259.6	258.6	—	203.1	204.1	205.8	204.5	—
Iron and steel forgings .....	3462	31.7	32.2	33.6	33.6	—	24.3	24.8	25.7	25.7	—
Automotive stampings .....	3465	115.1	114.8	116.2	115.6	—	95.0	94.6	95.4	94.9	—
Metal stampings, nec .....	3469	95.2	96.1	96.4	96.0	—	74.1	75.0	74.4	73.7	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Metal services, nec .....	347	137.4	139.4	142.2	142.1	—	110.5	111.9	115.3	114.9	—
Plating and polishing .....	3471	83.3	84.8	86.4	86.0	—	67.5	68.6	70.7	70.2	—
Metal coating and allied services .....	3479	54.1	54.6	55.8	56.1	—	43.0	43.3	44.6	44.7	—
Ordnance and accessories, nec .....	348	42.8	42.8	41.0	40.6	—	22.7	22.9	23.3	23.1	—
Ammunition, except for small arms, nec .....	3483	22.7	22.7	21.8	21.4	—	9.4	9.6	10.0	9.8	—
Miscellaneous fabricated metal products .....	349	261.2	263.1	267.9	266.7	—	191.8	193.3	197.8	196.3	—
Valves and pipe fittings, nec .....	3494	25.7	25.8	25.9	25.3	—	18.9	19.1	19.1	18.5	—
Misc. fabricated wire products .....	3496	57.1	57.2	56.8	56.8	—	43.1	43.2	42.9	42.8	—
Industrial machinery and equipment .....	35	2,159.1	2,171.3	2,206.8	2,205.9	2,211.7	1,361.9	1,368.1	1,397.1	1,394.2	1,398.8
Engines and turbines .....	351	83.6	83.9	83.6	83.1	—	54.2	54.3	52.6	52.2	—
Turbines and turbine generator sets .....	3511	24.1	24.3	24.2	23.4	—	13.6	13.6	13.6	13.1	—
Internal combustion engines, nec .....	3519	59.5	59.6	59.4	59.7	—	40.6	40.7	39.0	39.1	—
Farm and garden machinery .....	352	105.9	103.9	106.9	106.0	—	77.5	75.4	78.2	77.1	—
Farm machinery and equipment .....	3523	77.1	77.5	79.9	79.1	—	55.5	55.9	58.1	57.2	—
Construction and related machinery .....	353	240.7	243.7	254.2	255.1	—	156.9	158.4	166.0	166.9	—
Construction machinery .....	3531	89.3	90.3	92.9	93.0	—	61.3	61.9	63.9	63.8	—
Mining machinery .....	3532	17.0	17.2	16.9	16.9	—	10.1	10.3	10.0	10.0	—
Oil and gas field machinery .....	3533	45.3	46.1	51.6	51.8	—	30.5	30.9	35.0	35.3	—
Conveyors and conveying equipment .....	3535	39.9	40.4	41.6	41.9	—	22.5	22.6	22.3	22.8	—
Industrial trucks and tractors .....	3537	30.7	31.1	32.0	32.1	—	21.2	21.3	22.3	22.5	—
Metalworking machinery .....	354	347.9	349.5	351.9	351.7	—	247.5	249.0	252.2	251.0	—
Machine tools, metal cutting types .....	3541	42.4	42.6	42.7	42.6	—	26.4	26.5	27.0	26.9	—
Machine tools, metal forming types .....	3542	17.8	17.9	18.1	18.2	—	11.3	11.4	11.4	11.4	—
Special dies, tools, jigs, and fixtures .....	3544	166.7	167.6	169.3	169.0	—	127.4	128.3	129.9	129.1	—
Machine tool accessories .....	3545	53.0	52.9	54.3	54.5	—	37.1	37.1	38.8	38.9	—
Power driven handtools .....	3546	21.3	21.3	20.5	20.5	—	14.9	14.9	14.6	14.5	—
Special industry machinery .....	355	177.8	179.1	185.5	184.2	—	99.2	99.2	100.4	99.3	—
Textile machinery .....	3552	14.8	14.9	15.3	15.2	—	9.9	9.9	9.9	9.9	—
Printing trades machinery .....	3555	22.7	22.8	23.6	23.6	—	12.9	13.0	13.3	13.3	—
Food products machinery .....	3556	25.3	25.3	24.9	24.6	—	15.1	14.9	14.9	14.6	—
General industrial machinery .....	356	261.4	263.3	266.4	266.9	—	167.0	167.8	170.5	170.4	—
Pumps and pumping equipment .....	3561	30.8	30.9	30.5	30.6	—	17.6	17.6	17.8	17.9	—
Ball and roller bearings .....	3562	39.8	39.9	41.0	41.0	—	31.3	31.2	31.7	31.7	—
Air and gas compressors .....	3563	26.1	26.3	26.7	26.9	—	15.2	15.3	15.5	15.3	—
Blowers and fans .....	3564	34.9	35.1	35.3	35.5	—	23.5	23.6	24.1	24.2	—
Speed changers, drives, and gears .....	3566	17.6	17.8	18.4	18.5	—	12.5	12.7	13.3	13.5	—
Power transmission equipment, nec .....	3568	21.7	21.9	22.3	22.6	—	15.1	15.2	15.6	15.6	—
Computer and office equipment .....	357	373.8	377.0	376.4	375.9	374.5	139.3	141.5	145.0	144.6	—
Electronic computers .....	3571	194.8	195.7	196.2	196.7	—	63.1	63.8	69.7	70.4	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	60.4	61.3	61.3	61.3	—	24.4	24.8	24.1	24.1	—
Refrigeration and service machinery .....	358	204.9	205.5	204.3	205.1	—	148.5	148.4	147.8	148.4	—
Refrigeration and heating equipment .....	3585	143.6	143.5	141.2	141.7	—	110.2	109.8	108.0	108.2	—
Misc. industrial and commercial machinery .....	359	363.1	365.4	377.6	377.9	—	271.8	274.1	284.4	284.3	—
Carburetors, pistons, rings, valves .....	3592	22.9	23.2	23.2	23.5	—	18.0	18.4	18.7	18.9	—
Scales, balances, and industrial machinery, nec .....	3596,9	294.1	295.4	305.8	305.7	—	225.1	226.6	235.1	235.0	—
Electronic and other electrical equipment .....	36	1,671.7	1,686.5	1,714.5	1,710.1	1,715.8	1,057.4	1,064.8	1,078.2	1,075.2	1,077.7
Electric distribution equipment .....	361	82.1	82.3	82.9	82.9	—	56.3	56.3	55.7	55.9	—
Transformers, except electronic .....	3612	39.3	39.0	38.9	38.8	—	27.9	27.5	26.2	26.0	—
Switchgear and switchboard apparatus .....	3613	42.8	43.3	44.0	44.1	—	28.4	28.8	29.5	29.9	—
Electrical industrial apparatus .....	362	154.3	154.8	154.0	154.2	—	107.6	107.8	107.6	107.4	—
Motors and generators .....	3621	76.0	76.0	76.5	76.6	—	59.1	58.9	59.5	59.3	—
Relays and industrial controls .....	3625	58.1	58.6	56.7	56.7	—	33.8	34.2	33.0	33.0	—
Household appliances .....	363	113.1	113.9	115.5	115.3	—	88.8	89.3	91.4	91.1	—
Household refrigerators and freezers .....	3632	22.9	23.0	24.3	23.4	—	17.7	17.7	19.3	18.4	—
Household laundry equipment .....	3633	16.5	17.0	17.6	18.0	—	13.1	13.4	13.9	14.4	—
Electric housewares and fans .....	3634	26.5	26.9	25.5	25.5	—	20.4	20.9	18.9	18.9	—

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 <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment .....	364	179.0	180.0	182.6	181.7	—	128.1	129.0	129.6	128.6	—
Electric lamps .....	3641	22.1	22.0	21.9	21.1	—	17.1	17.0	16.9	16.3	—
Current-carrying wiring devices .....	3643	62.1	62.7	63.7	63.6	—	40.8	41.2	41.8	41.4	—
Noncurrent-carrying wiring devices .....	3644	17.9	18.1	18.0	17.9	—	13.7	13.8	13.4	13.3	—
Residential lighting fixtures .....	3645	20.3	20.4	20.9	21.1	—	15.1	15.3	15.5	15.7	—
Household audio and video equipment .....	365	77.5	78.4	77.1	77.2	—	49.8	50.7	49.5	49.6	—
Household audio and video equipment .....	3651	52.3	52.2	52.1	52.3	—	30.9	30.7	30.7	30.8	—
Communications equipment .....	366	274.2	276.7	279.6	278.9	—	130.0	131.1	129.4	129.4	—
Telephone and telegraph apparatus .....	3661	119.5	119.8	125.8	126.3	—	59.3	59.0	58.8	59.2	—
Electronic components and accessories .....	367	643.3	652.6	676.7	674.3	674.1	390.2	394.2	410.4	408.9	—
Electron tubes .....	3671	22.3	22.3	22.7	22.7	—	16.1	16.2	16.7	16.8	—
Semiconductors and related devices .....	3674	272.2	278.0	291.8	291.6	—	124.4	126.3	132.8	132.6	—
Electronic components, nec .....	3679	145.4	146.6	148.7	147.6	—	98.4	99.6	102.2	101.8	—
Misc. electrical equipment and supplies .....	369	148.2	147.8	146.1	145.6	—	106.6	106.4	104.6	104.3	—
Storage batteries .....	3691	26.0	26.4	25.5	25.2	—	19.8	20.3	19.7	19.5	—
Engine electrical equipment .....	3694	64.7	64.3	65.3	65.2	—	51.5	51.2	50.0	50.0	—
Transportation equipment .....	37	1,831.4	1,844.3	1,891.6	1,892.8	1,893.4	1,249.8	1,258.9	1,282.5	1,278.4	1,272.8
Motor vehicles and equipment .....	371	980.3	987.9	1,004.9	1,005.6	1,002.2	776.2	784.4	785.0	782.4	775.8
Motor vehicles and car bodies .....	3711	344.3	347.6	357.9	358.8	—	265.6	270.5	267.6	266.8	—
Truck and bus bodies .....	3713	41.5	42.2	42.5	42.5	—	33.1	33.5	33.8	33.7	—
Motor vehicle parts and accessories .....	3714	542.1	544.9	545.5	545.1	—	434.9	437.0	435.3	433.8	—
Truck trailers .....	3715	32.8	33.3	38.0	38.2	—	26.4	26.9	30.8	30.8	—
Aircraft and parts .....	372	493.2	499.2	523.7	522.5	523.9	246.8	249.9	267.5	265.7	—
Aircraft .....	3721	259.1	261.9	273.3	273.0	—	108.0	109.4	115.9	115.6	—
Aircraft engines and engine parts .....	3724	99.4	100.5	103.5	102.9	—	53.9	54.2	56.6	55.4	—
Aircraft parts and equipment, nec .....	3728	134.7	136.8	146.9	146.6	—	84.9	86.3	95.0	94.7	—
Ship and boat building and repairing .....	373	158.9	157.4	161.1	163.2	—	121.6	119.4	122.7	123.8	—
Ship building and repairing .....	3731	100.8	99.3	99.8	101.2	—	73.2	70.9	71.4	72.0	—
Boat building and repairing .....	3732	58.1	58.1	61.3	62.0	—	48.4	48.5	51.3	51.8	—
Railroad equipment .....	374	33.2	32.9	33.9	33.9	—	25.2	24.7	26.1	25.8	—
Guided missiles, space vehicles, and parts .....	376	90.2	90.8	90.4	90.2	—	24.2	24.4	24.3	24.3	—
Guided missiles and space vehicles .....	3761	62.3	62.8	62.6	62.6	—	15.2	15.4	15.3	15.3	—
Miscellaneous transportation equipment .....	379	53.5	53.5	54.8	55.1	—	39.3	39.2	40.6	40.7	—
Travel trailers and campers .....	3792	22.0	22.0	23.4	23.4	—	18.5	18.4	19.8	19.7	—
Instruments and related products .....	38	860.6	865.3	866.3	865.0	867.8	425.1	428.5	433.3	431.7	434.8
Search and navigation equipment .....	381	159.8	160.4	160.7	161.0	—	43.8	43.8	43.5	43.4	—
Measuring and controlling devices .....	382	299.0	300.8	302.7	302.2	—	153.1	154.3	155.4	154.9	—
Environmental controls .....	3822	41.4	41.5	40.7	40.5	—	27.8	27.9	27.5	27.4	—
Process control instruments .....	3823	66.3	66.7	66.1	66.1	—	33.8	34.0	33.8	33.9	—
Instruments to measure electricity .....	3825	75.1	75.9	77.5	77.2	—	32.4	32.7	32.9	32.5	—
Medical instruments and supplies .....	384	274.8	276.6	279.3	278.8	—	160.9	162.4	165.5	165.2	—
Surgical and medical instruments .....	3841	107.9	108.4	109.2	109.2	—	69.2	69.7	70.3	70.6	—
Surgical appliances and supplies .....	3842	94.7	95.2	97.1	97.0	—	58.2	58.5	60.4	60.2	—
Ophthalmic goods .....	385	34.6	35.1	36.9	36.8	—	21.1	21.3	24.7	25.0	—
Photographic equipment and supplies .....	386	84.7	84.7	79.1	78.5	—	39.9	40.3	37.9	36.8	—
Watches, clocks, watchcases, and parts .....	387	7.7	7.7	7.6	7.7	—	6.3	6.4	6.3	6.4	—
Miscellaneous manufacturing industries .....	39	390.1	391.7	389.2	387.2	388.9	274.2	275.4	273.3	270.9	272.2
Jewelry, silverware, and plated ware .....	391	48.7	48.7	48.6	48.6	—	33.5	33.4	33.8	33.6	—
Jewelry, precious metal .....	3911	36.4	36.3	36.5	36.5	—	24.6	24.5	25.0	24.8	—
Musical instruments .....	393	15.9	15.9	16.6	16.7	—	12.6	12.5	13.1	13.2	—
Toys and sporting goods .....	394	111.6	109.8	106.6	104.1	—	77.8	75.9	73.1	71.2	—
Dolls, games, toys, and children's vehicles .....	3942,4	37.2	37.2	34.3	33.5	—	24.6	24.5	21.9	21.2	—
Sporting and athletic goods, nec .....	3949	74.4	72.6	72.3	70.6	—	53.2	51.4	51.2	50.0	—
Pens, pencils, office, and art supplies .....	395	31.1	31.2	30.6	31.0	—	20.9	21.0	21.5	21.7	—
Costume jewelry and notions .....	396	23.4	23.8	23.0	23.0	—	16.4	16.8	16.5	16.4	—
Costume jewelry .....	3961	13.3	13.6	12.8	12.8	—	9.2	9.6	9.4	9.3	—
Miscellaneous manufactures .....	399	159.4	162.3	163.8	163.8	—	113.0	115.8	115.3	114.8	—
Signs and advertising specialties .....	3993	68.3	69.1	72.0	72.4	—	44.7	45.6	47.1	47.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods</b> .....		7,649	7,707	7,596	7,612	7,661	5,340	5,380	5,285	5,293	5,332
Food and kindred products .....	20	1,659.1	1,688.2	1,663.2	1,676.4	1,703.2	1,225.1	1,248.6	1,228.8	1,238.7	1,261.8
Meat products .....	201	486.0	489.2	496.0	495.7	—	412.6	414.9	420.6	420.5	—
Meat packing plants .....	2011	148.2	148.6	153.9	152.7	—	123.1	123.3	128.0	126.7	—
Sausages and other prepared meats .....	2013	94.9	96.6	96.5	97.9	—	73.3	74.6	75.2	76.1	—
Poultry slaughtering and processing .....	2015	242.9	244.0	245.6	245.1	—	216.2	217.0	217.4	217.7	—
Dairy products .....	202	142.5	144.3	141.9	142.8	—	94.3	95.6	96.1	96.7	—
Cheese, natural and processed .....	2022	39.8	40.6	39.7	39.8	—	32.5	33.2	32.2	32.4	—
Fluid milk .....	2026	61.6	61.7	61.8	62.2	—	35.0	34.9	36.0	36.0	—
Preserved fruits and vegetables .....	203	215.9	230.1	208.8	215.5	—	179.0	192.7	172.3	179.3	—
Canned specialties .....	2032	17.9	18.2	18.4	17.9	—	14.0	14.4	14.5	13.9	—
Canned fruits and vegetables .....	2033	62.5	69.0	58.1	61.3	—	50.4	56.8	47.0	50.0	—
Frozen fruits and vegetables .....	2037	46.6	49.4	43.9	46.5	—	40.3	43.1	37.5	40.0	—
Grain mill products .....	204	124.4	125.1	123.4	123.3	—	88.6	89.1	87.7	87.2	—
Flour and other grain mill products .....	2041	19.0	19.2	18.8	18.8	—	11.8	11.8	11.5	11.5	—
Prepared feeds, nec .....	2048	39.8	39.9	39.6	39.7	—	25.5	25.8	25.8	25.4	—
Bakery products .....	205	206.0	207.3	205.8	207.5	—	138.5	139.5	137.6	139.9	—
Bread, cake, and related products .....	2051	147.6	147.8	150.0	150.8	—	90.1	89.9	90.8	91.9	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	58.4	59.5	55.8	56.7	—	48.4	49.6	46.8	48.0	—
Sugar and confectionery products .....	206	90.3	90.0	92.7	93.5	—	70.2	69.9	71.2	72.2	—
Raw cane sugar .....	2061	4.1	3.8	4.9	5.0	—	3.1	2.9	3.6	3.7	—
Cane sugar refining .....	2062	4.2	4.3	4.1	4.1	—	3.2	3.2	3.1	3.1	—
Beet sugar .....	2063	7.0	6.5	7.5	7.7	—	6.0	5.4	6.5	6.7	—
Candy and other confectionery products .....	2064	50.0	50.4	51.1	51.6	—	39.7	40.1	39.3	39.9	—
Fats and oils .....	207	32.9	33.3	32.8	34.4	—	22.6	22.7	23.0	22.7	—
Beverages .....	208	179.8	183.9	181.0	183.7	—	86.3	88.9	88.8	90.1	—
Malt beverages .....	2082	33.9	34.2	33.5	33.8	—	21.7	21.8	21.2	21.4	—
Bottled and canned soft drinks .....	2086	94.9	96.3	95.1	96.7	—	39.1	40.1	39.5	40.0	—
Misc. food and kindred products .....	209	181.3	185.0	180.8	180.0	—	133.0	135.3	131.5	130.1	—
Tobacco products .....	21	38.0	37.9	39.5	37.5	36.5	28.2	28.1	30.5	28.4	27.5
Cigarettes .....	211	28.1	28.1	27.2	27.0	—	20.9	20.9	20.4	20.1	—
Textile mill products .....	22	618.4	620.0	603.9	604.1	602.9	524.3	525.4	512.5	513.1	512.0
Broadwoven fabric mills, cotton .....	221	72.4	72.5	70.6	70.0	—	64.5	64.5	63.1	62.6	—
Broadwoven fabric mills, synthetics .....	222	63.7	63.9	65.2	64.3	—	53.5	53.6	55.2	54.5	—
Broadwoven fabric mills, wool .....	223	14.5	14.5	13.7	13.6	—	12.4	12.3	11.5	11.5	—
Narrow fabric mills .....	224	21.7	21.7	21.0	21.1	—	17.9	17.9	17.2	17.3	—
Knitting mills .....	225	175.2	175.6	163.7	165.2	—	150.5	150.6	139.6	141.0	—
Women's hosiery, except socks .....	2251	19.7	19.8	17.5	18.1	—	17.2	17.5	15.2	15.7	—
Hosiery, nec .....	2252	38.5	38.8	36.2	36.8	—	33.9	33.9	31.5	32.2	—
Knit outerwear mills .....	2253	53.3	52.8	49.5	49.2	—	45.5	45.0	42.5	42.2	—
Knit underwear mills .....	2254	16.9	16.9	13.1	13.0	—	15.1	15.0	11.7	11.6	—
Weft knit fabric mills .....	2257	24.9	25.3	25.3	26.1	—	20.8	21.2	21.3	22.1	—
Textile finishing, except wool .....	226	67.8	67.4	65.0	64.7	—	55.4	55.1	53.4	53.1	—
Finishing plants, cotton .....	2261	31.4	31.2	30.1	29.8	—	25.7	25.4	24.6	24.3	—
Finishing plants, synthetics .....	2262	21.5	21.5	20.3	20.2	—	17.2	17.3	16.4	16.3	—
Carpets and rugs .....	227	62.6	62.8	65.7	66.1	—	51.5	51.6	55.1	55.3	—
Yarn and thread mills .....	228	86.5	86.6	85.0	84.9	—	76.7	76.9	75.5	75.5	—
Yarn spinning mills .....	2281	63.1	63.1	62.0	61.9	—	56.2	56.3	55.6	55.7	—
Throwing and winding mills .....	2282	16.5	16.6	16.2	16.3	—	14.3	14.3	13.8	13.9	—
Miscellaneous textile goods .....	229	54.0	55.0	54.0	54.2	—	41.9	42.9	41.9	42.3	—
Apparel and other textile products .....	23	835.6	836.4	784.7	782.5	781.2	684.8	684.1	632.5	629.7	629.2
Men's and boys' suits and coats .....	231	29.2	29.4	28.4	28.5	—	23.8	23.8	23.1	23.0	—
Men's and boys' furnishings .....	232	211.1	211.9	191.1	190.0	—	178.8	179.5	161.1	160.6	—
Men's and boys' shirts .....	2321	44.5	44.8	39.4	39.1	—	38.1	38.4	34.2	34.0	—
Men's and boys' trousers and slacks .....	2325	70.2	70.6	65.2	65.0	—	60.5	60.8	56.2	56.4	—
Men's and boys' work clothing .....	2326	31.9	32.1	28.7	29.1	—	27.3	27.5	24.4	25.0	—
Women's and misses' outerwear .....	233	255.8	254.3	238.0	235.6	—	209.0	206.7	188.5	185.6	—
Women's and misses' blouses and shirts .....	2331	22.9	22.9	20.7	20.9	—	17.9	17.7	15.7	16.0	—
Women's, juniors', and misses' dresses .....	2335	41.1	41.1	38.5	38.4	—	32.4	32.5	29.7	29.7	—
Women's and misses' suits and coats .....	2337	24.5	25.1	23.6	23.9	—	19.1	19.6	18.1	18.5	—
Women's and misses' outerwear, nec .....	2339	167.3	165.2	155.2	152.4	—	139.6	136.9	125.0	121.4	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	35.7	35.4	32.3	32.3	-	28.2	27.9	25.3	25.0	-
Women's and children's underwear .....	2341	25.7	25.7	23.8	23.5	-	21.0	20.9	19.1	18.6	-
Brassieres, girdles, and allied garments .....	2342	10.0	9.7	8.5	8.8	-	7.2	7.0	6.2	6.4	-
Girls' and children's outerwear .....	236	30.7	30.9	26.0	26.4	-	25.4	25.5	21.3	21.7	-
Girls' and children's dresses and blouses .....	2361	12.3	12.5	10.1	10.0	-	10.5	10.6	8.7	8.6	-
Misc. apparel and accessories .....	238	34.7	34.9	33.2	33.5	-	27.9	28.0	26.7	27.1	-
Misc. fabricated textile products .....	239	220.3	221.7	218.9	219.6	-	177.3	178.6	173.1	173.5	-
Curtains and draperies .....	2391	20.4	20.1	19.3	19.2	-	16.2	16.0	14.7	14.7	-
House furnishings, nec .....	2392	54.8	54.7	56.7	56.5	-	46.5	46.5	47.7	47.3	-
Automotive and apparel trimmings .....	2396	61.5	62.8	60.6	60.9	-	49.0	50.4	47.2	47.4	-
Paper and allied products .....	26	683.7	689.4	682.2	682.5	685.2	521.7	525.9	519.5	520.2	524.1
Paper mills .....	262	158.4	160.8	155.4	155.6	-	124.0	125.3	121.5	121.8	-
Paperboard mills .....	263	49.9	50.2	50.0	49.8	-	38.3	38.4	38.6	38.4	-
Paperboard containers and boxes .....	265	219.7	221.0	218.1	218.1	-	170.0	171.6	168.8	169.0	-
Corrugated and solid fiber boxes .....	2653	132.4	133.4	132.7	132.8	-	99.1	100.2	99.0	99.2	-
Sanitary food containers .....	2656	17.9	17.8	16.7	16.8	-	15.9	15.9	15.0	15.2	-
Folding paperboard boxes .....	2657	47.3	47.5	46.8	46.6	-	38.1	38.4	38.1	37.7	-
Misc. converted paper products .....	267	243.9	245.6	246.9	247.3	-	179.9	181.2	181.2	181.7	-
Paper, coated and laminated, nec .....	2672	46.7	47.3	48.1	49.0	-	24.1	24.7	24.8	26.2	-
Bags: plastics, laminated, and coated .....	2673	40.1	40.2	40.4	39.9	-	31.3	31.4	31.8	31.3	-
Envelopes .....	2677	25.1	25.2	25.5	25.5	-	19.5	19.6	19.9	19.7	-
Printing and publishing .....	27	1,550.9	1,558.8	1,564.0	1,564.5	1,572.0	850.2	852.4	845.5	844.5	846.4
Newspapers .....	271	439.9	442.5	442.7	442.4	-	147.4	147.9	147.4	147.0	-
Periodicals .....	272	135.1	136.2	138.8	138.6	-	46.3	46.1	46.2	44.9	-
Books .....	273	128.6	129.7	129.0	128.8	-	69.5	68.8	65.9	64.7	-
Book publishing .....	2731	89.8	91.3	90.0	90.0	-	38.7	38.4	34.9	34.0	-
Book printing .....	2732	38.8	38.4	39.0	38.8	-	30.8	30.4	31.0	30.7	-
Miscellaneous publishing .....	274	87.4	88.3	91.2	91.2	-	40.2	41.3	42.5	42.7	-
Commercial printing .....	275	573.5	574.0	576.9	577.5	-	411.1	411.1	409.9	411.2	-
Commercial printing, lithographic .....	2752	371.6	371.8	375.4	376.1	-	265.7	265.5	266.2	267.3	-
Commercial printing, nec .....	2759	181.8	182.8	181.8	182.2	-	129.4	130.3	128.4	129.1	-
Manifold business forms .....	276	43.1	43.0	42.9	43.0	-	30.3	30.2	30.3	30.1	-
Blankbooks and bookbinding .....	278	65.2	66.6	65.3	65.4	-	50.5	51.3	49.7	49.9	-
Printing trade services .....	279	50.3	50.2	49.0	49.5	-	34.2	34.2	32.9	33.3	-
Chemicals and allied products .....	28	1,034.1	1,040.2	1,032.1	1,037.9	1,044.4	568.6	572.6	581.3	584.1	589.1
Industrial inorganic chemicals .....	281	117.8	118.1	115.6	116.2	-	54.9	56.3	61.0	61.6	-
Industrial inorganic chemicals, nec .....	2819	71.8	72.0	69.6	70.0	-	35.7	36.1	35.4	35.6	-
Plastics materials and synthetics .....	282	159.0	159.5	154.7	155.6	-	106.0	106.4	103.3	102.9	-
Plastics materials and resins .....	2821	79.3	80.1	80.3	80.6	-	49.4	50.0	49.5	49.5	-
Organic fibers, noncellulosic .....	2824	45.9	45.6	44.6	44.4	-	36.0	35.6	35.4	35.2	-
Drugs .....	283	265.8	268.4	270.8	272.6	-	119.8	120.1	124.5	125.3	-
Pharmaceutical preparations .....	2834	209.5	211.5	215.1	216.0	-	96.9	97.0	100.6	101.3	-
Soap, cleaners, and toilet goods .....	284	154.3	156.0	155.7	157.4	-	94.0	95.3	96.7	97.7	-
Soap and other detergents .....	2841	41.4	42.1	41.5	41.9	-	22.2	22.5	22.8	22.9	-
Polishing, sanitation, and finishing preparations .....	2842.3	39.2	39.4	40.5	40.9	-	21.7	21.8	23.0	23.1	-
Toilet preparations .....	2844	73.7	74.5	73.7	74.6	-	50.1	51.0	50.9	51.7	-
Paints and allied products .....	285	51.5	52.0	51.7	52.2	-	27.5	27.8	27.4	27.7	-
Industrial organic chemicals .....	286	139.1	139.3	137.5	137.6	-	78.4	78.3	79.9	80.1	-
Cyclic crudes and intermediates .....	2865	23.6	23.7	23.3	23.2	-	14.2	14.2	14.0	14.0	-
Industrial organic chemicals, nec .....	2869	113.0	113.1	111.7	111.9	-	62.3	62.2	64.1	64.3	-
Agricultural chemicals .....	287	52.9	52.5	51.8	51.8	-	31.8	31.5	31.6	31.7	-
Miscellaneous chemical products .....	289	93.7	94.4	94.3	94.5	-	56.2	56.9	56.9	57.1	-
Petroleum and coal products .....	29	141.4	142.3	135.6	136.8	138.8	94.1	94.6	89.0	90.1	91.1
Petroleum refining .....	291	97.0	97.5	93.3	93.2	-	63.6	63.8	60.5	60.6	-
Asphalt paving and roofing materials .....	295	30.4	30.6	27.8	29.1	-	22.9	23.1	20.6	21.7	-
Rubber and misc. plastics products .....	30	995.9	1,002.1	1,006.4	1,005.9	1,013.5	772.5	778.1	781.8	780.4	787.5
Tires and inner tubes .....	301	78.1	78.1	79.9	80.4	-	57.8	57.8	58.6	59.3	-
Rubber and plastics footwear .....	302	6.9	7.2	6.7	6.6	-	5.6	5.9	5.2	5.1	-
Hose, belting, gaskets, and packing .....	305	68.6	69.5	72.4	72.0	-	52.7	53.5	55.8	55.5	-
Rubber and plastics hose and belting .....	3052	28.0	28.3	29.3	29.4	-	21.8	22.1	23.0	23.0	-
Fabricated rubber products, nec .....	306	111.9	112.5	112.1	111.5	-	85.7	86.2	86.0	85.3	-
Miscellaneous plastics products, nec .....	308	730.4	734.8	735.3	735.4	-	570.7	574.7	576.2	575.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	92.3	91.7	84.5	83.7	83.7	70.7	70.0	63.8	63.3	63.2
Leather tanning and finishing .....	311	13.3	13.3	13.2	12.9	—	10.9	10.9	10.9	10.6	—
Footwear, except rubber .....	314	41.7	40.8	36.3	35.9	—	33.5	32.9	28.8	28.7	—
Men's footwear, except athletic .....	3143	21.7	21.5	19.7	19.7	—	17.0	16.9	15.2	15.2	—
Women's footwear, except athletic .....	3144	11.8	11.6	9.6	9.3	—	9.4	9.3	7.4	7.3	—
Luggage .....	316	10.4	10.7	10.2	9.9	—	7.8	7.8	7.0	7.0	—
Handbags and personal leather goods .....	317	9.8	9.8	9.2	9.3	—	5.8	5.7	5.3	5.3	—
<b>Transportation and public utilities .....</b>		<b>6,407</b>	<b>6,439</b>	<b>6,484</b>	<b>6,541</b>	<b>6,578</b>	<b>5,393</b>	<b>5,416</b>	<b>5,345</b>	<b>5,404</b>	<b>5,441</b>
Transportation .....		4,123	4,139	4,153	4,200	4,216	—	—	—	—	—
Railroad transportation .....	40	227.4	229.3	230.9	232.1	233.3	—	—	—	—	—
Class I railroads plus Amtrak <sup>2</sup> .....	4011	202.7	204.5	204.0	205.0	—	—	—	—	—	—
Local and interurban passenger transit .....	41	468.4	451.2	467.0	480.0	464.4	430.6	413.4	427.6	439.3	—
Local and suburban transportation .....	411	231.6	233.0	234.9	237.6	—	211.1	212.1	212.9	214.9	—
Taxicabs .....	412	30.7	30.4	31.1	31.3	—	—	—	—	—	—
Intercity and rural bus transportation .....	413	21.3	20.8	21.4	21.9	—	18.9	19.0	19.2	19.6	—
School buses .....	415	149.9	132.5	145.0	153.4	—	—	—	—	—	—
Trucking and warehousing .....	42	1,659.7	1,679.4	1,674.8	1,696.9	1,727.2	1,450.6	1,468.9	1,465.2	1,483.7	—
Trucking and courier services, except air .....	421	1,502.6	1,521.2	1,514.8	1,536.2	—	1,320.1	1,337.4	1,331.8	1,350.6	—
Public warehousing and storage .....	422	151.9	152.9	155.1	155.8	—	125.7	126.7	129.1	128.7	—
Water transportation .....	44	184.7	187.7	180.2	187.2	190.9	—	—	—	—	—
Water transportation of freight, nec .....	444	14.2	14.0	14.2	14.2	—	—	—	—	—	—
Water transportation services .....	449	124.4	125.8	123.0	128.6	—	110.2	111.5	107.9	113.5	—
Transportation by air .....	45	1,131.3	1,136.0	1,139.8	1,142.0	1,139.9	—	—	—	—	—
Air transportation, scheduled .....	451	969.2	973.3	967.3	967.2	—	—	—	—	—	—
Air transportation, scheduled .....	4512	508.9	512.8	522.7	522.1	—	—	—	—	—	—
Airports, flying fields, and services .....	458	119	118	127	129	—	—	—	—	—	—
Pipelines, except natural gas .....	46	14.2	14.5	14.0	14.2	14.2	11.5	11.8	11.4	11.5	—
Transportation services .....	47	437.2	440.6	446.2	447.5	446.4	356.5	359.1	364.8	365.5	—
Passenger transportation arrangement .....	472	217.5	217.6	217.6	216.7	—	181.8	181.4	183.2	182.1	—
Travel agencies .....	4724	171.9	171.0	173.6	172.8	—	144.0	143.0	146.1	145.5	—
Freight transportation arrangement .....	473	173.1	175.1	180.2	182.0	—	135.9	137.7	140.9	142.4	—
Communications and public utilities .....		2,284	2,300	2,331	2,341	2,362	—	—	—	—	—
Communications .....	48	1,415.6	1,426.5	1,477.3	1,484.0	1,499.0	1,099.6	1,105.1	1,059.6	1,072.3	—
Telephone communications .....	481	968.8	979.0	1,018.7	1,024.8	—	736.8	742.5	695.1	707.6	—
Telephone communications, except radio .....	4813	821.0	828.6	854.4	861.3	—	617.1	620.0	576.9	588.3	—
Radio and television broadcasting .....	483	242.8	241.8	245.0	244.8	—	202.4	201.4	202.1	201.2	—
Radio broadcasting stations .....	4832	114.2	113.8	117.1	117.2	—	—	—	—	—	—
Television broadcasting stations .....	4833	128.6	128.0	127.9	127.6	—	—	—	—	—	—
Cable and other pay television services .....	484	173.8	174.9	182.5	183.0	—	145.8	146.8	148.9	149.8	—
Electric, gas, and sanitary services .....	49	868.1	873.3	853.5	856.8	862.9	691.8	695.9	680.7	685.0	—
Electric services .....	491	368.3	371.0	362.3	364.5	—	294.8	297.2	291.6	294.2	—
Gas production and distribution .....	492	143.3	144.3	139.7	140.0	—	111.0	111.9	108.5	108.7	—
Combination utility services .....	493	161.2	161.3	157.2	156.9	—	125.3	125.1	122.0	122.2	—
Sanitary services .....	495	162.8	163.6	161.8	162.6	—	135.1	135.6	133.1	133.9	—
<b>Wholesale trade .....</b>		<b>6,636</b>	<b>6,674</b>	<b>6,781</b>	<b>6,816</b>	<b>6,871</b>	<b>5,350</b>	<b>5,384</b>	<b>5,427</b>	<b>5,455</b>	<b>5,500</b>
Durable goods .....	50	3,921	3,948	4,047	4,064	4,094	3,119	3,143	3,186	3,196	—
Motor vehicles, parts, and supplies .....	501	515.6	519.0	517.6	518.3	—	421.7	424.7	413.9	414.0	—
Automobiles and other motor vehicles .....	5012	143.5	144.2	148.2	148.4	—	—	—	—	—	—
Motor vehicle supplies and new parts .....	5013	293.3	295.5	290.2	291.2	—	—	—	—	—	—
Furniture and home furnishings .....	502	155.0	155.6	162.2	162.9	—	123.3	124.0	128.5	128.8	—
Furniture .....	5021	73.4	74.3	78.2	79.0	—	—	—	—	—	—
Home furnishings .....	5023	81.6	81.3	84.0	83.9	—	—	—	—	—	—

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 <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Lumber and other construction materials .....	503	256.9	259.7	264.1	268.3	—	212.2	215.0	219.0	223.6	—
Lumber, plywood, and millwork .....	5031	131.1	132.3	134.8	136.3	—	—	—	—	—	—
Construction materials, nec .....	5039	38.0	38.4	38.7	39.3	—	—	—	—	—	—
Professional and commercial equipment .....	504	856.8	861.3	897.2	902.2	—	673.5	674.7	693.6	694.5	—
Office equipment .....	5044	197.8	198.1	210.0	211.9	—	—	—	—	—	—
Computers, peripherals and software .....	5045	343.6	344.6	358.7	358.4	—	—	—	—	—	—
Medical and hospital equipment .....	5047	178.8	180.2	186.1	188.1	—	144.4	145.8	149.8	151.0	—
Metals and minerals, except petroleum .....	505	147.4	147.4	151.5	151.2	—	118.9	119.5	122.3	121.6	—
Electrical goods .....	506	534.4	536.6	552.9	554.3	—	399.1	401.3	401.1	402.0	—
Electrical apparatus and equipment .....	5063	222.4	223.8	231.6	233.0	—	—	—	—	—	—
Electrical appliances, television and radio sets .....	5064	49.8	49.4	49.5	49.2	—	—	—	—	—	—
Electronic parts and equipment .....	5065	262.2	263.4	271.8	272.1	—	—	—	—	—	—
Hardware, plumbing, and heating equipment .....	507	299.1	302.7	302.2	302.7	—	243.5	247.0	246.5	246.8	—
Hardware .....	5072	105.7	107.9	109.1	109.2	—	—	—	—	—	—
Plumbing and hydronic heating supplies .....	5074	118.4	119.1	118.5	118.4	—	—	—	—	—	—
Machinery, equipment, and supplies .....	508	813.6	821.5	841.9	843.5	—	650.3	657.1	672.3	672.6	—
Construction and mining machinery .....	5082	87.5	88.1	91.8	92.0	—	—	—	—	—	—
Farm and garden machinery .....	5083	122.7	124.9	124.8	125.6	—	—	—	—	—	—
Industrial machinery and equipment .....	5084	326.8	330.4	340.0	339.2	—	—	—	—	—	—
Industrial supplies .....	5085	152.5	153.4	158.7	159.4	—	—	—	—	—	—
Misc. wholesale trade durable goods .....	509	341.7	344.6	357.1	360.2	—	276.8	279.7	289.1	291.7	—
Scrap and waste materials .....	5093	129.3	130.6	133.5	133.8	—	—	—	—	—	—
Nondurable goods .....	51	2,715	2,726	2,734	2,752	2,777	2,231	2,241	2,241	2,259	—
Paper and paper products .....	511	265.0	266.6	266.6	266.3	—	223.4	224.2	222.8	222.3	—
Stationery and office supplies .....	5112	152.5	152.9	155.7	155.8	—	—	—	—	—	—
Drugs, proprietaries, and sundries .....	512	212.2	212.1	213.5	215.7	—	176.6	177.6	177.1	180.0	—
Apparel, piece goods, and notions .....	513	221.3	223.3	222.6	220.8	—	178.3	180.4	180.2	179.3	—
Groceries and related products .....	514	901.2	908.8	896.9	903.8	—	756.4	764.6	752.6	759.7	—
Groceries, general line .....	5141	285.4	286.9	288.6	288.0	—	—	—	—	—	—
Meats and meat products .....	5147	55.7	55.8	54.6	54.4	—	—	—	—	—	—
Fresh fruits and vegetables .....	5148	101.6	105.9	93.8	99.0	—	—	—	—	—	—
Farm-product raw materials .....	515	104.8	104.8	105.2	104.8	—	84.3	84.3	85.1	84.8	—
Chemicals and allied products .....	516	151.2	151.7	150.0	151.0	—	111.5	111.3	109.8	110.5	—
Petroleum and petroleum products .....	517	155.3	155.9	158.0	158.3	—	128.6	129.2	130.3	130.5	—
Petroleum bulk stations and terminals .....	5171	63.6	64.1	65.4	66.0	—	—	—	—	—	—
Petroleum products, nec .....	5172	91.7	91.8	92.6	92.3	—	—	—	—	—	—
Beer, wine, and distilled beverages .....	518	153.4	155.5	152.8	154.2	—	124.1	126.4	123.1	125.0	—
Beer and ale .....	5181	98.4	100.1	97.9	99.2	—	—	—	—	—	—
Wine and distilled beverages .....	5182	55.0	55.4	54.9	55.0	—	—	—	—	—	—
Misc. wholesale trade nondurable goods .....	519	550.8	546.8	568.5	576.9	—	447.9	443.3	460.0	467.1	—
Farm supplies .....	5191	173.0	169.5	176.4	180.2	—	—	—	—	—	—
<b>Retail trade .....</b>		<b>21,978</b>	<b>22,184</b>	<b>22,085</b>	<b>22,424</b>	<b>22,662</b>	<b>19,353</b>	<b>19,546</b>	<b>19,373</b>	<b>19,707</b>	<b>19,897</b>
Building materials and garden supplies .....	52	978.9	985.4	979.7	1,012.9	1,025.5	820.9	825.9	814.9	847.6	—
Lumber and other building materials .....	521	585.6	595.0	589.1	604.8	—	497.7	506.0	496.4	512.1	—
Paint, glass, and wallpaper stores .....	523	68.2	67.9	68.9	69.4	—	52.9	52.4	53.0	53.5	—
Hardware stores .....	525	164.6	166.2	163.7	167.7	—	135.7	137.2	134.3	138.2	—
Retail nurseries and garden stores .....	526	117.4	112.1	110.2	122.2	—	100.6	95.6	93.3	105.0	—
General merchandise stores .....	53	2,617.4	2,650.2	2,674.6	2,703.0	2,732.0	2,432.7	2,462.3	2,470.4	2,501.1	—
Department stores .....	531	2,298.9	2,325.4	2,355.9	2,383.7	2,408.6	2,159.3	2,184.1	2,199.1	2,228.6	—
Variety stores .....	533	134.9	138.4	136.3	135.4	—	115.0	117.6	115.1	114.6	—
Miscellaneous general merchandise stores .....	539	183.6	186.4	182.4	183.9	—	158.4	160.6	156.2	157.9	—
Food stores .....	54	3,474.0	3,510.5	3,489.0	3,519.6	3,559.9	3,149.0	3,182.1	3,161.0	3,193.1	—
Grocery stores .....	541	3,057.7	3,084.3	3,050.6	3,077.2	—	2,793.4	2,817.4	2,785.4	2,814.6	—
Meat and fish markets .....	542	47.1	48.0	50.2	48.6	—	—	—	—	—	—
Dairy products stores .....	545	13.6	14.4	13.1	13.3	—	—	—	—	—	—
Retail bakeries .....	546	208.5	211.1	222.5	224.3	—	182.0	184.5	193.6	195.4	—
Automotive dealers and service stations .....	55	2,313.9	2,330.2	2,327.9	2,349.3	2,371.0	1,939.8	1,954.7	1,930.9	1,947.7	—
New and used car dealers .....	551	1,048.7	1,053.3	1,056.5	1,059.4	1,065.2	879.9	884.5	884.3	887.0	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Retail trade—Continued</b>											
Automotive dealers and service stations—Continued											
Auto and home supply stores .....	553	393.0	396.1	401.2	406.3	—	316.8	318.1	307.8	310.5	—
Gasoline service stations .....	554	671.4	677.4	663.6	672.7	—	582.6	588.7	573.4	581.1	—
Automotive dealers, nec .....	559	9.5	9.7	9.7	9.7	—	7.9	8.1	7.9	7.9	—
Apparel and accessory stores .....	56	1,070.4	1,083.3	1,076.3	1,079.1	1,096.2	886.6	900.5	896.5	899.5	—
Men's and boys' clothing stores .....	561	80.2	81.6	80.1	79.9	—	64.1	65.2	65.0	64.7	—
Women's clothing stores .....	562	279.0	277.0	268.8	271.9	—	231.6	230.2	223.2	226.7	—
Family clothing stores .....	565	329.7	339.9	340.4	339.1	—	287.3	299.5	301.6	300.8	—
Shoe stores .....	566	197.4	198.7	200.5	200.4	—	156.6	157.2	159.3	158.5	—
Furniture and home furnishings stores .....	57	988.4	992.5	1,035.3	1,041.3	1,051.3	807.5	811.2	850.2	854.5	—
Furniture and home furnishings stores .....	571	510.8	511.6	530.8	533.8	—	414.1	414.9	431.3	433.4	—
Furniture stores .....	5712	299.6	299.5	315.2	316.2	—	—	—	—	—	—
Household appliance stores .....	572	71.5	71.4	68.5	68.7	—	57.3	57.6	55.5	55.5	—
Radio, television, and computer stores .....	573	406.1	409.5	436.0	438.8	—	336.1	338.7	363.4	365.6	—
Radio, television, and electronic stores .....	5731	176.5	179.0	191.4	191.1	—	146.5	148.8	159.6	159.5	—
Record and prerecorded tape stores .....	5735	77.2	77.1	80.2	82.6	—	63.1	62.6	67.0	68.9	—
Eating and drinking places .....	58	7,786.1	7,880.5	7,677.0	7,859.4	7,969.7	7,026.6	7,117.8	6,897.4	7,080.5	—
Miscellaneous retail establishments .....	59	2,748.5	2,750.9	2,825.3	2,859.4	2,856.7	2,289.8	2,291.2	2,351.7	2,383.0	—
Drug stores and proprietary stores .....	591	622.4	623.9	641.7	646.5	—	516.6	518.6	538.2	541.4	—
Liquor stores .....	592	109.1	111.0	111.4	112.7	—	—	—	—	—	—
Used merchandise stores .....	593	113.7	115.2	120.1	120.0	—	94.7	95.9	100.1	100.0	—
Miscellaneous shopping goods stores .....	594	948.0	952.5	972.1	984.3	—	791.6	795.2	807.1	818.0	—
Sporting goods and bicycle shops .....	5941	183.5	187.5	192.7	194.0	—	—	—	—	—	—
Book stores .....	5942	124.4	116.9	124.3	124.8	—	—	—	—	—	—
Stationery stores .....	5943	87.1	87.0	91.9	91.9	—	—	—	—	—	—
Jewelry stores .....	5944	139.8	141.2	141.2	142.9	—	—	—	—	—	—
Gift, novelty, and souvenir shops .....	5947	220.5	228.9	221.6	231.1	—	—	—	—	—	—
Sewing, needlework, and piece goods .....	5949	50.5	49.2	49.9	49.7	—	—	—	—	—	—
Nonstore retailers .....	596	329.2	328.7	346.0	342.9	—	278.5	278.0	293.0	290.4	—
Catalog and mail-order houses .....	5961	205.6	205.5	220.4	218.5	—	—	—	—	—	—
Merchandising machine operators .....	5962	68.7	67.9	69.4	68.9	—	—	—	—	—	—
Fuel dealers .....	598	95.2	95.0	96.9	95.2	—	78.4	78.2	80.1	78.8	—
Retail stores, nec .....	599	530.9	524.6	537.1	557.8	—	441.6	435.2	442.7	462.6	—
Florists, tobacco stores, and newsstands .....	5992,3,4	165.4	151.4	161.4	171.9	—	—	—	—	—	—
Optical goods stores .....	5995	66.9	67.3	73.7	74.7	—	55.9	56.1	59.2	60.6	—
Miscellaneous retail stores, nec .....	5999	298.6	305.9	302.0	311.2	—	243.1	249.9	246.8	255.3	—
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		7,065	7,139	7,261	7,311	7,409	5,164	5,229	5,329	5,377	5,462
Finance .....		3,393	3,421	3,514	3,531	3,572	—	—	—	—	—
Depository institutions .....	60	2,020.8	2,037.7	2,035.0	2,039.7	2,058.6	1,451.6	1,468.1	1,461.9	1,469.2	—
Commercial banks .....	602	1,455.7	1,468.1	1,457.2	1,460.2	1,474.3	1,030.5	1,042.8	1,031.8	1,037.6	—
State commercial banks .....	6022	585.9	593.2	596.7	598.9	—	418.2	425.0	426.3	428.3	—
National and commercial banks, nec .....	6021,9	869.8	874.9	860.5	861.3	—	612.3	617.8	605.5	609.3	—
Savings institutions .....	603	261.6	263.7	263.0	263.5	265.4	—	—	—	—	—
Federal savings institutions .....	6035	144.9	146.0	145.9	145.6	—	—	—	—	—	—
Savings institutions, except federal .....	6036	116.7	117.7	117.1	117.9	—	—	—	—	—	—
Credit unions .....	606	170.9	172.3	177.2	178.1	—	135.7	136.9	141.1	141.8	—
Nondepository institutions .....	61	563.5	567.2	605.4	611.9	621.0	401.4	405.8	418.1	421.8	—
Personal credit institutions .....	614	177.9	179.0	184.8	185.7	—	125.0	125.7	110.7	110.0	—
Business credit institutions .....	615	113.1	114.4	119.7	121.2	—	—	—	—	—	—
Mortgage bankers and brokers .....	616	251.5	252.9	278.8	283.1	288.4	—	—	—	—	—
Security and commodity brokers .....	62	589.2	594.8	634.3	640.1	651.5	—	—	—	—	—
Security brokers and dealers .....	621	440.1	443.3	466.7	470.3	—	—	—	—	—	—
Commodity contracts brokers, dealers, and exchanges .....	622,3	24.8	25.0	25.3	25.4	—	—	—	—	—	—
Security and commodity services .....	628	124.3	126.5	142.3	144.4	—	82.2	84.4	95.2	96.5	—
Holding and other investment offices .....	67	219.8	221.4	239.2	239.4	240.7	—	—	—	—	—
Holding offices .....	671	105.3	106.0	110.1	110.1	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Finance, insurance, and real estate—Continued</b>											
Insurance .....	63,64	2,249	2,262	2,309	2,319	2,335	—	—	—	—	—
Life insurance .....	63	1,526.5	1,535.9	1,572.1	1,578.4	1,591.4	1,109.4	1,115.4	1,185.8	1,194.9	—
Medical service and health insurance .....	631	514.1	517.2	526.0	528.1	—	334.9	337.5	350.4	354.9	—
Hospital and medical service plans .....	632	337.3	338.4	351.3	353.0	—	276.0	276.7	284.9	285.3	—
Fire, marine, and casualty insurance .....	6324	275.5	276.1	288.5	289.8	—	228.3	228.8	238.0	238.2	—
Title insurance .....	633	536.0	540.0	542.8	544.3	—	387.1	388.5	427.5	430.8	—
Insurance agents, brokers, and service .....	636	70.6	71.4	79.1	80.3	—	—	—	—	—	—
Real estate .....	64	722.6	726.4	737.1	740.2	743.8	—	—	—	—	—
Real estate operators and lessors .....	65	1,423	1,456	1,438	1,461	1,502	—	—	—	—	—
Real estate agents and managers .....	651	579.6	592.4	576.9	578.9	—	—	—	—	—	—
Subdividers and developers .....	653	688.0	705.1	705.4	717.0	—	—	—	—	—	—
Subdividers and developers .....	655	122.5	124.8	118.4	127.2	—	—	—	—	—	—
<b>Services .....</b>		<b>36,050</b>	<b>36,345</b>	<b>37,263</b>	<b>37,527</b>	<b>37,860</b>	<b>31,527</b>	<b>31,812</b>	<b>32,527</b>	<b>32,755</b>	<b>33,049</b>
Agricultural services .....	07	733.6	756.5	709.6	756.1	787.8	624.9	645.5	598.2	641.6	—
Veterinary services .....	074	180.6	184.4	187.0	189.2	—	152.1	155.4	157.2	159.4	—
Landscape and horticultural services .....	078	502.6	520.6	473.0	516.8	—	431.4	447.6	399.9	440.5	—
Hotels and other lodging places .....	70	1,762.5	1,837.6	1,720.5	1,788.7	1,871.2	—	—	—	—	—
Hotels and motels .....	701	1,712.1	1,770.4	1,677.2	1,737.1	—	1,506.2	1,560.8	1,469.1	1,527.2	—
Personal services .....	72	1,171.0	1,153.1	1,242.9	1,179.0	1,160.6	—	—	—	—	—
Laundry, cleaning, and garment services .....	721	438.3	439.4	440.3	443.6	—	385.4	387.3	387.6	391.1	—
Photographic studios, portrait .....	722	68.3	67.1	57.4	58.3	—	—	—	—	—	—
Beauty shops .....	723	397.3	397.8	400.6	403.9	—	353.3	354.1	354.4	357.6	—
Funeral service and crematories .....	726	98.2	97.1	99.7	100.4	—	—	—	—	—	—
Miscellaneous personal services .....	729	153.2	136.0	229.7	157.5	—	127.0	112.1	203.3	130.2	—
Business services .....	73	7,903.5	8,018.5	8,356.9	8,462.0	8,583.5	7,013.3	7,128.0	7,401.1	7,500.2	—
Advertising .....	731	252.4	255.2	263.9	265.3	—	183.9	185.4	190.0	190.6	—
Advertising agencies .....	7311	165.8	168.6	172.8	173.4	—	—	—	—	—	—
Credit reporting and collection .....	732	134.3	135.1	138.7	138.2	—	—	—	—	—	—
Mailing, reproduction, and stenographic services .....	733	303.6	304.4	314.1	314.6	—	—	—	—	—	—
Photocopying and duplicating services .....	7334	76.1	76.4	79.8	79.7	—	64.2	64.5	68.0	67.9	—
Services to buildings .....	734	941.7	949.4	966.3	981.4	986.5	842.6	849.7	863.8	879.0	—
Disinfecting and pest control services .....	7342	90.4	90.8	95.6	96.7	—	72.6	73.1	77.2	78.8	—
Building maintenance services, nec .....	7349	851.3	858.6	870.7	884.7	—	770.0	776.6	786.6	800.2	—
Miscellaneous equipment rental and leasing .....	735	253.3	257.1	257.2	264.5	—	204.5	207.6	202.9	210.0	—
Medical equipment rental .....	7352	40.2	40.3	40.2	40.2	—	31.2	30.9	29.3	29.1	—
Heavy construction equipment rental .....	7353	45.0	45.9	45.8	46.5	—	38.1	38.7	38.9	39.5	—
Equipment rental and leasing, nec .....	7359	168.1	170.9	171.2	177.8	—	135.2	138.0	134.7	141.4	—
Personnel supply services .....	736	2,924.1	2,982.0	3,080.6	3,127.5	3,188.1	—	—	—	—	—
Employment agencies .....	7361	321.8	327.8	333.9	332.7	—	—	—	—	—	—
Help supply services .....	7363	2,602.3	2,654.2	2,746.7	2,794.8	2,846.3	2,526.1	2,579.3	2,667.3	2,713.7	—
Computer and data processing services .....	737	1,389.0	1,407.3	1,560.6	1,572.6	1,593.9	1,108.3	1,124.7	1,243.8	1,254.9	—
Computer programming services .....	7371	313.0	320.7	359.4	361.8	—	265.4	273.0	306.1	308.4	—
Prepackaged software .....	7372	224.1	229.1	261.8	264.4	—	—	—	—	—	—
Computer integrated systems design .....	7373	161.8	162.3	178.7	180.2	—	113.4	114.3	123.5	125.3	—
Data processing and preparation .....	7374	247.7	249.8	267.0	270.0	—	—	—	—	—	—
Information retrieval services .....	7375	80.9	81.9	89.2	89.6	—	59.2	59.7	63.4	64.6	—
Computer maintenance and repair .....	7378	56.9	57.5	57.6	57.1	—	40.3	40.7	39.7	40.1	—
Miscellaneous business services .....	738	1,705.1	1,728.0	1,775.5	1,797.9	—	1,480.4	1,505.6	1,543.2	1,563.5	—
Detective and armored car services .....	7381	568.0	569.5	596.8	601.0	—	525.1	526.5	549.8	553.5	—
Security systems services .....	7382	56.2	56.8	59.5	59.4	—	48.2	48.9	48.3	48.1	—
Photofinishing laboratories .....	7384	73.1	75.2	77.3	79.8	—	—	—	—	—	—
Auto repair, services, and parking .....	75	1,124.3	1,127.0	1,144.1	1,155.4	1,167.0	926.5	930.3	929.9	937.5	—
Automotive rentals, without drivers .....	751	196.6	199.8	202.6	205.3	—	161.9	164.6	164.8	167.6	—
Passenger car rental .....	7514	128.7	131.9	135.6	137.2	—	107.7	110.3	111.8	113.3	—
Automobile parking .....	752	72.2	72.4	75.2	76.1	—	63.8	64.1	65.6	66.3	—
Automotive repair shops .....	753	621.9	623.8	625.5	631.2	—	500.3	503.8	494.0	496.8	—
Automotive and tire repair shops .....	7532,4	215.7	216.6	218.5	220.0	—	177.2	178.4	178.4	178.8	—
General automotive repair shops .....	7538	265.2	264.2	266.0	268.5	—	213.8	213.0	204.9	206.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Services—Continued</b>											
Auto repair, services, and parking—Continued											
Automotive services, except repair .....	754	233.6	231.0	240.8	242.8	—	200.5	197.8	205.5	206.8	—
Carwashes .....	7542	126.7	123.1	128.5	128.6	—	112.0	108.9	114.2	113.9	—
Miscellaneous repair services .....	76	375.8	379.5	383.1	385.0	390.2	307.0	310.9	313.1	314.4	—
Electrical repair shops .....	762	115.1	116.6	116.8	118.3	—	—	—	—	—	—
Motion pictures .....	78	541.0	549.8	561.7	566.7	565.2	452.8	462.8	468.2	470.2	—
Motion picture production and services .....	781	224.5	224.9	238.6	238.3	—	186.3	188.0	198.5	195.2	—
Motion picture theaters .....	783	135.1	143.9	131.4	137.2	—	—	—	—	—	—
Video tape rental .....	784	161.0	161.0	172.1	171.4	—	130.1	130.1	138.6	137.4	—
Amusement and recreation services .....	79	1,652.1	1,820.4	1,637.1	1,754.8	1,938.6	1,453.3	1,618.8	1,425.3	1,539.4	—
Bowling centers .....	793	77.8	71.5	83.9	74.5	—	69.2	63.0	75.0	65.8	—
Misc. amusement and recreation services .....	799	1,220.0	1,375.9	1,190.1	1,287.3	—	1,075.6	1,227.7	1,038.6	1,133.7	—
Physical fitness facilities .....	7991	164.6	166.3	179.0	178.1	—	146.7	147.5	159.8	158.6	—
Membership sports and recreation clubs .....	7997	349.6	413.8	332.4	382.5	—	309.0	371.7	290.7	339.4	—
Health services .....	80	9,690.6	9,728.9	9,859.7	9,881.8	9,933.3	8,590.7	8,627.0	8,734.4	8,753.3	—
Offices and clinics of medical doctors .....	801	1,735.5	1,744.6	1,797.4	1,805.4	1,821.0	1,425.6	1,434.9	1,480.1	1,486.9	—
Offices and clinics of dentists .....	802	627.7	627.8	638.0	640.3	—	549.3	549.5	556.4	557.9	—
Offices and clinics of other health practitioners .....	804	435.9	439.2	463.2	466.1	—	363.0	365.8	382.9	386.3	—
Offices and clinics of chiropractors and optometrists .....	8041,2	164.4	164.8	169.7	170.9	—	—	—	—	—	—
Nursing and personal care facilities .....	805	1,751.5	1,756.3	1,756.0	1,756.8	1,762.8	1,574.9	1,579.9	1,579.4	1,580.1	—
Skilled nursing care facilities .....	8051	1,328.7	1,331.4	1,331.1	1,331.8	—	—	—	—	—	—
Intermediate care facilities .....	8052	207.6	208.4	208.0	208.8	—	187.1	187.4	187.1	187.6	—
Nursing and personal care, nec .....	8059	215.2	216.5	216.9	216.2	—	—	—	—	—	—
Hospitals .....	806	3,852.6	3,870.1	3,932.2	3,939.0	3,962.1	3,530.0	3,546.9	3,603.4	3,608.9	—
General medical and surgical hospitals .....	8062	3,552.4	3,568.5	3,624.2	3,630.0	—	—	—	—	—	—
Psychiatric hospitals .....	8063	84.5	84.6	84.5	84.9	—	—	—	—	—	—
Specialty hospitals, excluding psychiatric .....	8069	215.7	217.0	223.5	224.1	—	—	—	—	—	—
Medical and dental laboratories .....	807	198.7	199.7	201.1	201.5	—	—	—	—	—	—
Home health care services .....	808	714.2	715.8	687.8	685.4	683.0	659.3	659.9	633.6	631.5	—
Legal services .....	81	938.4	959.5	968.0	971.3	995.4	748.7	767.7	770.8	775.2	—
Educational services .....	82	2,129.7	1,920.7	2,329.7	2,231.4	1,996.4	—	—	—	—	—
Elementary and secondary schools .....	821	642.1	616.4	660.9	668.0	—	—	—	—	—	—
Colleges and universities .....	822	1,223.9	1,043.3	1,389.5	1,286.5	—	—	—	—	—	—
Vocational schools .....	824	82.7	80.4	88.1	86.8	—	—	—	—	—	—
Social services .....	83	2,526.1	2,506.0	2,612.7	2,630.9	2,613.2	2,193.6	2,173.2	2,260.8	2,275.6	—
Individual and family services .....	832	674.3	671.7	698.9	705.5	—	585.5	582.7	605.5	611.7	—
Job training and related services .....	833	347.6	363.7	368.1	373.5	—	298.6	314.3	315.5	320.0	—
Child day care services .....	835	590.0	556.6	594.1	596.4	565.3	524.5	492.3	526.7	528.0	—
Residential care .....	836	712.3	722.0	745.2	747.6	755.1	617.6	626.3	645.4	647.1	—
Social services, nec .....	839	201.9	192.0	206.4	207.9	—	167.4	157.6	167.7	168.8	—
Museums and botanical and zoological gardens .....	84	92.9	97.1	90.4	95.0	98.6	—	—	—	—	—
Membership organizations .....	86	2,249.3	2,286.2	2,252.6	2,265.4	2,304.0	—	—	—	—	—
Business associations .....	861	106.7	108.8	108.2	108.8	—	—	—	—	—	—
Professional organizations .....	862	58.8	59.2	61.1	61.4	—	42.4	42.8	44.1	44.3	—
Labor organizations .....	863	144.3	143.3	141.9	142.8	—	—	—	—	—	—
Civic and social associations .....	864	439.4	471.0	443.4	451.7	—	—	—	—	—	—
Engineering and management services .....	87	2,965.8	3,010.7	3,199.1	3,208.1	3,259.0	2,263.6	2,307.7	2,450.6	2,454.4	—
Engineering and architectural services .....	871	860.3	876.1	901.6	911.7	934.3	706.4	720.8	739.6	748.9	—
Engineering services .....	8711	659.4	670.0	690.7	698.2	—	546.9	557.2	573.3	580.1	—
Architectural services .....	8712	145.1	148.1	153.3	154.9	—	113.5	116.0	119.3	120.8	—
Surveying services .....	8713	55.8	58.0	57.6	58.6	—	46.0	47.6	47.0	48.0	—
Accounting, auditing, and bookkeeping .....	872	587.5	589.8	661.1	636.2	—	410.6	413.0	475.4	452.8	—

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Services—Continued</b>											
Engineering and management services—Continued											
Research and testing services .....	873	587.2	596.2	621.2	626.4	—	448.2	456.1	478.5	482.3	—
Commercial physical research .....	8731	223.6	226.5	232.3	234.2	—	155.0	157.5	161.5	163.0	—
Commercial nonphysical research .....	8732	133.5	135.5	145.9	147.3	—	110.5	112.5	122.6	123.8	—
Noncommercial research organizations .....	8733	138.5	140.9	147.8	149.1	—	108.1	110.0	116.3	117.2	—
Management and public relations .....	874	930.8	948.6	1,015.2	1,033.8	1,047.9	698.4	717.8	757.1	770.4	—
Management services .....	8741	313.8	316.0	337.0	343.0	—	233.8	235.9	250.4	255.9	—
Management consulting services .....	8742	326.7	333.2	367.7	373.9	—	244.1	253.9	272.4	276.2	—
Public relations services .....	8743	38.1	39.0	42.3	42.6	—	24.7	25.7	28.5	28.7	—
Services, nec .....	89	49.4	49.8	51.7	51.6	51.9	39.2	39.7	40.8	40.5	—
<b>Government</b> .....		19,918	19,621	20,130	20,209	19,873	—	—	—	—	—
Federal Government <sup>4</sup> .....		2,707	2,720	2,668	2,676	2,690	—	—	—	—	—
Executive, by agency <sup>4</sup> .....		2,645.1	2,657.5	2,605.4	—	—	—	—	—	—	—
Department of Defense .....		705.4	707.1	666.4	—	—	—	—	—	—	—
Postal Service <sup>5</sup> .....		848.7	849.5	853.2	—	—	—	—	—	—	—
Other executive agencies .....		1,091.0	1,100.9	1,085.8	—	—	—	—	—	—	—
Legislative .....		32.2	32.3	31.7	—	—	—	—	—	—	—
Judicial .....		29.5	29.8	30.5	—	—	—	—	—	—	—
Federal Government, except Postal Service .....		1,858.1	1,870.1	1,814.4	1,821.7	1,836.6	—	—	—	—	—
Federal Government, by industry:											
Manufacturing activities .....		51.2	50.2	47.4	47.6	—	—	—	—	—	—
Ship building and repairing .....	3731	22.3	22.3	21.9	22.1	—	—	—	—	—	—
Transportation and public utilities, except Postal Service .....		14.1	14.0	12.3	12.2	—	—	—	—	—	—
Services .....		364.8	364.8	357.1	363.0	—	—	—	—	—	—
Hospitals .....	806	223.9	223.7	221.0	221.9	—	—	—	—	—	—
State government .....		4,641	4,447	4,747	4,697	4,482	—	—	—	—	—
Construction .....		88.0	90.4	86.5	87.0	—	—	—	—	—	—
Transportation and public utilities .....		53.0	53.4	51.5	51.8	—	—	—	—	—	—
Services .....		2,675.8	2,460.5	2,776.0	2,711.7	—	—	—	—	—	—
Hospitals .....	806	364.7	365.1	364.9	365.1	—	—	—	—	—	—
Education .....	82	1,961.8	1,737.5	2,059.5	1,993.6	1,750.5	—	—	—	—	—
Social services .....		208.8	210.2	206.8	207.3	—	—	—	—	—	—
Services, except hospitals, education, and social services .....		140.5	147.7	144.8	145.7	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		1,824.2	1,843.0	1,833.1	1,846.6	—	—	—	—	—	—
State government, except education .....		2,679.2	2,709.8	2,687.6	2,703.5	2,731.6	—	—	—	—	—
Local government .....		12,570	12,454	12,715	12,836	12,701	—	—	—	—	—
Transportation and public utilities .....		453.0	457.3	454.6	455.8	—	—	—	—	—	—
Services .....		8,373.8	8,084.6	8,513.9	8,566.1	—	—	—	—	—	—
Hospitals .....	806	633.0	636.8	648.1	650.2	—	—	—	—	—	—
Education .....	82	7,250.6	6,928.0	7,364.7	7,405.1	7,068.2	—	—	—	—	—
Social services .....		138.6	139.6	140.5	141.7	—	—	—	—	—	—
Services, except hospitals, education, and social services .....		351.6	380.2	360.6	369.1	—	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		3,743.3	3,911.6	3,746.5	3,813.8	—	—	—	—	—	—
Local government, except education .....		5,319.5	5,525.5	5,350.3	5,430.6	5,633.0	—	—	—	—	—

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

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

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

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

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

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

— Data not available.

P = preliminary.

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

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Mar. 1997	Apr. 1997	Feb. 1998	Mar. 1998	Apr. 1998
<b>Total</b> .....	58,837	59,142	60,005	60,275	60,558
<b>Total private</b> .....	47,752	48,058	48,753	48,961	49,249
<b>Goods-producing</b> .....	6,627	6,643	6,707	6,717	6,716
<b>Mining</b> .....	80	80	82	82	82
<b>Construction</b> .....	610	619	634	640	648
<b>Manufacturing</b> .....	5,937	5,944	5,991	5,995	5,986
<b>Durable goods</b> .....	2,881	2,889	2,972	2,975	2,975
Lumber and wood products .....	134	136	138	138	140
Furniture and fixtures .....	160	160	164	165	166
Stone, clay, and glass products .....	103	104	106	106	106
Primary metal industries .....	102	102	104	104	104
Fabricated metal products .....	323	325	333	333	333
Industrial machinery and equipment .....	469	471	488	487	486
Electronic and other electrical equipment .....	689	689	715	714	710
Transportation equipment .....	379	381	402	401	404
Instruments and related products .....	350	351	354	356	356
Miscellaneous manufacturing .....	171	171	169	170	170
<b>Nondurable goods</b> .....	3,056	3,055	3,019	3,020	3,011
Food and kindred products .....	535	533	538	538	536
Tobacco products .....	13	11	13	13	12
Textile mill products .....	287	287	278	277	279
Apparel and other textile products .....	621	620	580	581	575
Paper and allied products .....	165	165	166	167	165
Printing and publishing .....	695	699	703	704	705
Chemicals and allied products .....	329	329	329	329	328
Petroleum and coal products .....	24	24	24	24	24
Rubber and misc. plastics products .....	338	338	344	344	343
Leather and leather products .....	50	49	45	45	44
<b>Service-producing</b> .....	52,210	52,499	53,298	53,558	53,842
<b>Transportation and public utilities</b> .....	1,934	1,938	1,940	1,945	1,946
<b>Wholesale trade</b> .....	2,036	2,038	2,064	2,067	2,071
<b>Retail trade</b> .....	11,250	11,347	11,402	11,413	11,536
<b>Finance, insurance, and real estate</b> .....	4,416	4,429	4,521	4,548	4,570
<b>Services</b> .....	21,489	21,663	22,119	22,271	22,410
<b>Government</b> .....	11,085	11,084	11,252	11,314	11,309
Federal .....	1,144	1,144	1,132	1,132	1,136
State .....	2,389	2,394	2,421	2,438	2,438
Local .....	7,552	7,546	7,699	7,744	7,735

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

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

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Alabama</b> .....	1,870.8	1,882.0	1,887.4	10.5	9.9	9.8	98.4	98.9	100.4
Birmingham .....	462.7	470.5	471.8	3.2	3.0	3.0	26.9	28.8	29.1
Huntsville .....	172.5	175.8	175.6	(1)	(1)	(1)	6.1	6.3	6.3
Mobile .....	221.6	223.8	224.0	(1)	(1)	(1)	16.8	16.9	17.0
Montgomery .....	156.8	156.9	157.6	(1)	(1)	(1)	8.4	7.9	8.1
Tuscaloosa .....	78.3	81.8	81.3	2.8	2.7	2.7	5.7	6.1	6.3
<b>Alaska</b> .....	272.6	266.4	276.1	9.9	10.2	10.3	13.2	10.8	13.2
Anchorage .....	124.8	124.8	128.1	2.4	2.7	2.7	6.7	5.6	7.0
<b>Arizona</b> .....	1,979.0	2,063.2	2,068.2	13.4	13.4	13.4	130.1	132.4	134.2
Phoenix-Mesa .....	1,380.1	1,454.1	1,461.4	5.8	6.0	6.0	93.3	96.4	97.9
Tucson .....	317.2	323.1	324.8	2.4	2.3	2.3	19.1	20.4	20.7
<b>Arkansas</b> .....	1,107.8	1,123.8	1,130.7	3.6	3.6	3.6	48.4	48.3	49.7
Fayetteville-Springdale-Rogers .....	138.8	139.5	140.1	(1)	(1)	(1)	5.8	5.4	5.5
Fort Smith .....	96.1	96.2	96.6	.9	.9	.9	4.0	4.2	4.2
Little Rock-North Little Rock .....	303.6	307.3	307.7	(1)	(1)	(1)	14.6	14.7	14.9
Pine Bluff .....	36.0	35.7	35.8	(1)	(1)	(1)	.9	1.0	1.0
<b>California</b> .....	13,158.0	13,486.9	13,570.0	29.3	28.5	28.7	546.1	579.5	590.6
Bakersfield .....	181.3	182.2	182.0	10.7	10.7	10.8	8.6	7.8	7.8
Fresno .....	276.8	276.6	280.1	.6	.5	.5	13.2	14.0	14.3
Los Angeles-Long Beach .....	3,867.0	3,958.7	3,971.7	5.7	5.6	5.5	109.9	111.6	113.0
Modesto .....	131.3	133.7	134.7	(2)	(2)	(2)	6.8	7.2	7.2
Oakland .....	951.1	969.3	973.0	2.3	2.3	2.3	49.4	52.1	53.3
Orange County .....	1,230.6	1,270.0	1,277.3	.9	.9	.9	57.5	62.0	63.0
Riverside-San Bernardino .....	844.8	877.7	882.6	1.2	1.1	1.1	51.0	56.1	56.8
Sacramento .....	624.0	635.0	637.6	.2	.2	.2	32.9	33.5	34.5
Salinas .....	117.9	118.4	119.9	.1	.1	.1	4.3	4.7	4.8
San Diego .....	1,050.4	1,073.3	1,079.5	.4	.4	.4	52.2	53.7	54.2
San Francisco .....	985.3	995.9	1,000.7	.6	.5	.5	34.4	36.6	36.9
San Jose .....	923.7	953.6	957.8	.1	.1	.1	36.6	40.7	41.0
Santa Barbara-Santa Maria-Lompoc .....	153.1	152.7	154.0	1.1	1.0	1.0	6.5	6.3	6.3
Santa Rosa .....	166.3	169.6	170.4	.5	.4	.4	9.2	9.1	9.3
Stockton-Lodi .....	166.5	167.1	167.6	.1	.1	.1	7.7	7.5	7.7
Vallejo-Fairfield-Napa .....	149.9	154.7	155.9	.5	.5	.5	9.9	10.6	10.8
Ventura .....	245.4	248.8	250.9	1.7	1.5	1.5	11.1	10.9	11.0
<b>Colorado</b> .....	1,965.1	2,023.3	2,023.3	13.7	13.9	13.9	119.3	124.2	126.9
Boulder-Longmont .....	157.4	161.7	162.4	(1)	(1)	(1)	6.5	6.6	6.7
Colorado Springs .....	216.9	217.1	220.9	(1)	(1)	(1)	12.5	12.8	13.2
Denver .....	1,054.0	1,077.7	1,087.3	6.8	6.6	6.7	61.7	64.8	65.8
<b>Connecticut</b> .....	1,615.4	1,636.3	1,646.3	.8	.8	.8	57.3	57.0	59.5
Bridgeport .....	184.1	183.8	184.4	(2)	(2)	(2)	6.3	6.4	6.7
Danbury .....	85.3	86.4	86.6	(1)	(1)	(1)	3.5	3.8	3.8
Hartford .....	600.3	600.8	601.8	(1)	(1)	(1)	20.5	19.6	19.8
New Haven-Meriden .....	250.3	250.6	250.1	(1)	(1)	(1)	9.2	8.8	9.3
New London-Norwich .....	136.3	137.3	139.4	(1)	(1)	(1)	4.5	4.5	4.6
Stamford-Norwalk .....	202.2	206.5	208.3	(1)	(1)	(1)	5.8	5.6	5.7
Waterbury .....	86.4	87.3	88.7	(2)	(2)	(2)	3.2	3.5	3.5
<b>Delaware</b> .....	397.4	396.7	401.9	.1	.1	.1	21.3	21.7	22.0
Dover .....	51.8	53.9	54.5	.1	.1	.1	2.3	2.4	2.4
Wilmington-Newark .....	300.4	311.2	313.8	.2	.2	.2	16.0	16.5	16.6
<b>District of Columbia</b> .....	612.3	608.8	609.0	.1	.1	.1	8.8	8.8	8.7
Washington PMSA .....	2,477.5	2,515.4	2,536.6	1.0	1.0	1.1	125.6	128.8	131.4
<b>Florida</b> .....	6,426.8	6,659.9	6,673.9	6.6	6.7	6.7	329.7	342.3	345.8
Daytona Beach .....	149.9	154.8	154.5	(2)	(2)	(2)	7.6	7.7	7.7
Fort Lauderdale .....	626.4	646.5	648.3	.1	.1	.1	33.4	34.3	34.7
Fort Myers-Cape Coral .....	150.6	155.2	153.7	(2)	(2)	(2)	12.5	12.9	13.0
Gainesville .....	111.3	115.2	114.5	(2)	(2)	(2)	4.3	4.5	4.5
Jacksonville .....	519.9	538.4	541.5	(2)	(2)	(2)	28.0	28.4	28.5
Lakeland-Winter Haven .....	168.5	173.9	173.9	3.1	3.1	3.1	8.7	8.2	8.3
Melbourne-Titusville-Palm Bay .....	176.8	181.1	181.6	(2)	(2)	(2)	9.4	9.4	9.6
Miami .....	962.1	977.3	978.0	.3	.3	.3	33.6	33.6	33.7
Orlando .....	794.5	827.9	833.7	(2)	(2)	(2)	42.2	45.2	45.9
Pensacola .....	150.1	154.6	154.8	(2)	(2)	(2)	10.6	10.9	10.8
Sarasota-Bradenton .....	246.9	267.7	268.7	(2)	(2)	(2)	12.2	12.8	12.8
Tallahassee .....	147.4	150.0	150.2	(2)	(2)	(2)	6.1	6.0	6.0
Tampa-St. Petersburg-Clearwater .....	1,061.2	1,110.2	1,110.5	.4	.4	.4	50.2	54.3	54.6
West Palm Beach-Boca Raton .....	435.2	457.6	456.3	(2)	(2)	(2)	24.7	25.3	25.8

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		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Alabama</b> .....	381.1	376.4	376.4	91.1	91.3	91.5	426.7	430.4	432.9
Birmingham .....	51.9	50.7	50.3	30.1	30.3	30.4	111.3	114.1	114.7
Huntsville .....	38.9	39.9	39.7	3.6	3.4	3.4	34.7	35.3	35.2
Mobile .....	27.8	27.5	27.7	13.3	13.5	13.4	58.1	58.7	58.9
Montgomery .....	17.5	17.5	17.8	6.4	6.4	6.5	37.0	36.5	36.7
Tuscaloosa .....	11.4	12.2	12.1	2.4	2.6	2.5	18.3	18.3	18.4
<b>Alaska</b> .....	15.1	15.2	14.5	24.7	24.0	25.8	56.6	54.0	57.5
Anchorage .....	2.0	2.0	2.0	12.3	12.4	12.8	30.8	30.5	31.4
<b>Arizona</b> .....	204.5	214.4	215.1	96.2	97.6	98.4	479.1	500.3	500.6
Phoenix-Mesa .....	158.9	167.8	168.7	70.0	73.1	73.5	336.8	355.5	356.4
Tucson .....	28.1	28.9	29.2	13.4	13.3	13.4	68.3	70.2	70.3
<b>Arkansas</b> .....	253.2	254.8	255.0	65.2	67.2	67.5	253.5	254.2	257.1
Fayetteville-Springdale-Rogers .....	34.1	33.7	33.6	9.3	9.3	9.3	38.5	38.8	39.4
Fort Smith .....	27.4	26.8	26.7	6.6	6.5	6.5	20.4	19.9	19.9
Little Rock-North Little Rock .....	33.0	33.4	33.6	21.0	21.2	21.3	70.2	70.5	70.8
Pine Bluff .....	8.3	8.3	8.2	1.7	1.8	1.8	7.4	7.2	7.2
<b>California</b> .....	1,904.0	1,934.2	1,939.1	661.0	673.3	677.2	3,040.7	3,085.0	3,110.3
Bakersfield .....	10.0	10.3	10.3	9.8	10.4	10.4	43.0	42.5	42.3
Fresno .....	29.5	28.5	28.8	14.3	14.2	14.6	67.6	66.8	67.9
Los Angeles-Long Beach .....	661.8	679.9	679.5	209.8	216.0	216.4	855.4	868.1	872.4
Modesto .....	24.7	25.1	25.5	5.4	5.4	5.4	33.7	34.1	34.5
Oakland .....	118.9	120.2	119.9	60.7	60.1	60.1	213.5	214.3	216.4
Orange County .....	221.0	231.3	232.0	45.3	47.0	47.3	306.8	315.9	317.5
Riverside-San Bernardino .....	104.9	110.2	110.9	42.5	44.9	45.2	217.2	223.8	225.0
Sacramento .....	44.4	45.9	46.6	25.1	25.4	25.6	136.8	137.4	138.8
Salinas .....	9.4	8.9	8.7	5.5	5.6	5.8	31.0	31.2	31.8
San Diego .....	121.8	124.1	124.6	41.1	41.5	41.7	240.0	241.7	243.6
San Francisco .....	76.1	76.0	76.6	79.2	79.7	79.9	207.0	204.3	205.7
San Jose .....	253.8	259.4	259.3	27.2	28.6	28.8	182.0	186.7	187.9
Santa Barbara-Santa Maria-Lompoc .....	17.3	16.9	17.1	5.6	5.9	6.1	36.5	35.5	35.9
Santa Rosa .....	25.1	25.9	25.8	6.2	6.6	6.5	41.4	42.4	42.9
Stockton-Lodi .....	22.7	21.9	22.2	10.4	10.6	10.5	39.6	39.5	39.9
Vallejo-Fairfield-Napa .....	17.5	18.2	18.3	5.8	6.2	6.3	39.2	39.2	39.5
Ventura .....	32.7	34.1	34.3	9.5	10.0	10.0	60.2	59.7	60.6
<b>Colorado</b> .....	201.6	207.1	207.2	122.0	122.4	122.6	473.7	488.8	488.3
Boulder-Longmont .....	31.1	32.9	32.6	3.6	3.9	3.9	34.5	34.2	34.5
Colorado Springs .....	25.7	27.3	27.3	11.8	11.4	11.7	48.2	48.2	49.1
Denver .....	92.3	93.4	93.7	85.4	85.7	86.4	255.3	261.5	263.7
<b>Connecticut</b> .....	276.1	276.8	276.5	75.1	75.8	76.9	351.5	352.7	357.8
Bridgeport .....	39.8	39.7	39.6	7.3	7.1	7.2	41.3	41.1	41.4
Danbury .....	18.8	18.8	18.7	2.6	2.4	2.5	21.8	21.4	21.5
Hartford .....	92.4	94.2	94.3	27.3	27.0	27.0	124.4	122.3	123.0
New Haven-Meriden .....	39.7	39.3	39.3	15.9	16.1	16.2	52.5	52.1	52.8
New London-Norwich .....	24.4	24.4	24.4	6.5	6.6	6.7	27.8	27.0	27.9
Stamford-Norwalk .....	28.3	27.3	27.2	10.1	10.0	10.0	45.4	45.5	46.4
Waterbury .....	19.0	19.1	19.1	3.6	3.6	3.7	17.5	18.5	19.0
<b>Delaware</b> .....	57.5	58.8	59.2	15.8	15.7	15.8	85.6	85.0	87.2
Dover .....	5.9	6.1	6.2	1.8	1.9	1.9	12.8	12.7	12.9
Wilmington-Newark .....	43.0	44.8	45.2	13.6	13.9	14.2	61.2	61.7	62.5
<b>District of Columbia</b> .....	12.6	12.7	12.8	17.7	17.0	17.1	48.0	48.1	48.7
Washington PMSA .....	98.8	101.2	101.2	112.5	111.7	112.6	468.7	467.8	473.7
<b>Florida</b> .....	491.5	490.3	492.0	327.0	337.9	338.9	1,646.0	1,695.3	1,693.6
Daytona Beach .....	14.0	14.5	14.5	4.2	4.6	4.5	42.5	44.1	43.9
Fort Lauderdale .....	40.5	40.4	40.4	30.9	31.7	31.7	177.3	182.3	182.4
Fort Myers-Cape Coral .....	6.8	6.7	6.8	6.9	7.1	7.1	42.6	44.3	43.5
Gainesville .....	5.4	5.4	5.2	2.4	2.7	2.7	23.2	24.3	24.1
Jacksonville .....	37.2	38.6	38.8	35.8	37.4	37.6	128.1	131.0	131.7
Lakeland-Winter Haven .....	20.9	20.8	20.7	8.9	9.0	9.2	47.6	50.3	50.1
Melbourne-Titusville-Palm Bay .....	27.2	28.2	28.1	5.2	5.6	5.5	41.2	42.6	42.7
Miami .....	76.1	72.9	73.0	83.0	84.7	85.1	253.2	258.5	258.1
Orlando .....	52.1	53.3	53.3	41.3	42.5	42.6	196.5	204.4	205.2
Pensacola .....	10.9	10.7	10.7	7.3	7.6	7.6	38.9	39.9	40.3
Sarasota-Bradenton .....	20.5	21.5	21.6	5.4	5.4	5.4	58.9	62.3	61.7
Tallahassee .....	5.2	5.1	5.1	4.0	4.3	4.3	29.4	29.9	29.7
Tampa-St. Petersburg-Clearwater .....	88.3	86.8	87.2	48.0	49.6	49.8	258.6	263.5	263.1
West Palm Beach-Boca Raton .....	30.1	30.7	30.9	16.1	17.0	17.0	112.2	117.8	117.1

See footnotes at end of table.

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

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

(in thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Alabama</b> .....	84.1	85.5	86.2	427.2	439.1	438.9	351.7	350.5	351.3
Birmingham .....	34.0	35.1	35.4	135.7	140.3	140.4	69.6	68.2	68.5
Huntsville .....	4.8	4.7	4.8	45.3	47.6	47.7	39.1	38.6	38.5
Mobile .....	10.1	10.0	10.0	60.5	61.8	61.4	35.0	35.4	35.6
Montgomery .....	9.3	9.3	9.4	40.8	41.8	41.7	37.4	37.5	37.4
Tuscaloosa .....	2.4	2.6	2.6	13.7	14.1	14.1	21.6	23.2	22.6
<b>Alaska</b> .....	12.2	12.0	12.3	66.5	65.2	68.4	74.4	75.0	74.1
Anchorage .....	7.2	7.1	7.2	35.6	35.6	36.7	27.8	28.9	28.3
<b>Arizona</b> .....	125.7	133.3	133.9	595.1	628.7	631.3	334.9	343.1	341.3
Phoenix-Mesa .....	106.0	114.0	114.8	432.0	458.4	460.1	177.3	182.9	184.0
Tucson .....	11.7	12.5	12.5	99.1	100.8	100.9	75.1	74.7	75.5
<b>Arkansas</b> .....	44.1	44.6	44.9	254.0	261.9	263.9	185.8	189.2	189.0
Fayetteville-Springdale-Rogers .....	4.9	5.0	5.0	26.8	27.3	27.4	19.4	20.0	19.9
Fort Smith .....	3.1	3.1	3.1	23.7	25.0	25.5	10.0	9.8	9.8
Little Rock-North Little Rock .....	17.4	17.5	17.4	88.4	89.9	90.1	59.0	60.1	59.6
Pine Bluff .....	1.3	1.3	1.3	8.5	8.4	8.5	7.9	7.7	7.8
<b>California</b> .....	755.0	775.3	779.3	4,039.6	4,202.9	4,225.3	2,182.3	2,208.2	2,219.5
Bakersfield .....	6.6	7.1	7.2	43.1	43.2	43.1	49.5	50.2	50.1
Fresno .....	13.7	13.6	13.7	71.2	71.6	72.7	66.7	67.4	67.6
Los Angeles-Long Beach .....	219.4	223.7	224.8	1,260.4	1,302.9	1,308.3	544.6	550.9	551.8
Modesto .....	4.5	4.4	4.4	32.3	32.5	32.7	23.9	25.0	25.0
Oakland .....	54.6	55.6	55.9	279.7	290.3	290.7	172.0	174.4	174.4
Orange County .....	91.4	94.1	94.4	371.6	379.7	382.0	136.1	139.1	140.2
Riverside-San Bernardino .....	30.1	31.3	31.5	222.7	233.5	234.4	175.2	176.8	177.7
Sacramento .....	41.1	43.0	43.5	172.1	177.4	175.7	171.4	172.2	172.7
Salinas .....	5.9	5.6	5.7	33.4	33.3	33.9	28.3	29.0	29.1
San Diego .....	60.8	62.3	62.4	337.9	351.7	354.1	196.2	197.9	198.5
San Francisco .....	101.8	104.4	104.4	359.7	370.8	372.0	126.5	123.6	124.7
San Jose .....	30.8	31.2	31.4	302.8	316.0	317.9	90.4	90.9	91.4
Santa Barbara-Santa Maria-Lompoc .....	7.3	7.4	7.4	47.4	47.7	48.0	31.4	32.0	32.2
Santa Rosa .....	9.3	9.6	9.7	48.0	49.2	49.4	26.6	26.4	26.4
Stockton-Lodi .....	8.7	8.7	8.7	41.9	42.9	42.7	35.4	35.9	35.8
Vallejo-Fairfield-Napa .....	6.1	6.3	6.3	39.8	41.8	42.1	31.1	31.9	32.1
Ventura .....	12.6	13.9	13.9	73.0	75.3	75.8	44.6	43.4	43.8
<b>Colorado</b> .....	125.9	131.2	130.8	587.7	611.4	607.3	321.2	324.3	326.3
Boulder-Longmont .....	5.5	5.6	5.6	49.1	51.2	51.2	27.1	27.3	27.9
Colorado Springs .....	11.7	12.0	12.0	71.8	70.1	72.1	35.2	35.3	35.5
Denver .....	83.6	86.8	87.7	323.5	330.2	334.3	145.4	148.7	149.0
<b>Connecticut</b> .....	131.6	134.2	135.1	495.1	508.3	511.3	227.9	230.7	228.4
Bridgeport .....	10.2	10.2	10.2	58.3	58.2	58.2	20.9	21.1	21.1
Danbury .....	4.4	4.7	4.8	24.3	24.9	25.0	9.9	10.4	10.3
Hartford .....	69.7	68.9	69.6	172.0	172.8	173.9	94.0	96.0	94.2
New Haven-Meriden .....	13.1	12.7	12.9	88.4	90.4	88.4	31.5	31.2	31.2
New London-Norwich .....	3.7	3.8	3.8	34.9	34.8	35.5	34.5	36.2	36.5
Stamford-Norwalk .....	23.2	26.1	26.3	71.7	73.9	74.6	17.7	18.1	18.1
Waterbury .....	4.3	4.2	4.2	26.3	26.2	26.7	12.5	12.2	12.5
<b>Delaware</b> .....	46.4	49.4	49.7	106.4	110.8	112.4	54.3	55.2	55.5
Dover .....	2.1	2.5	2.5	11.6	12.4	12.6	15.3	15.9	16.0
Wilmington-Newark .....	40.6	43.2	43.3	87.2	91.3	92.2	38.6	39.6	39.6
<b>District of Columbia</b> .....	28.3	28.3	28.4	263.3	267.3	266.7	233.5	226.7	226.5
Washington PMSA .....	133.3	132.7	133.5	946.1	979.3	988.9	591.5	592.9	594.2
<b>Florida</b> .....	408.8	424.5	426.7	2,259.2	2,391.4	2,399.1	958.0	971.5	971.1
Daytona Beach .....	6.4	6.6	6.6	51.9	53.3	53.5	23.3	24.0	23.8
Fort Lauderdale .....	44.3	45.8	46.0	215.1	226.1	227.1	84.8	85.8	85.9
Fort Myers-Cape Coral .....	8.9	9.2	9.2	47.9	49.2	48.3	24.9	25.7	25.7
Gainesville .....	5.1	5.3	5.3	32.1	33.8	33.9	38.8	39.2	38.8
Jacksonville .....	52.7	53.4	53.4	169.7	180.7	182.1	68.0	68.5	69.0
Lakeland-Winter Haven .....	7.7	8.0	8.0	46.0	48.5	48.1	25.6	26.0	26.4
Melbourne-Titusville-Palm Bay .....	5.8	6.0	6.0	63.1	63.9	64.4	24.9	25.4	25.3
Miami .....	68.0	68.0	68.2	312.3	321.6	322.8	135.6	137.7	136.8
Orlando .....	45.9	47.9	48.0	330.8	347.5	351.1	85.3	86.7	87.2
Pensacola .....	6.1	6.3	6.3	47.1	49.9	50.2	28.9	29.0	28.7
Sarasota-Bradenton .....	11.5	11.6	11.7	114.6	130.7	132.1	23.7	23.3	23.3
Tallahassee .....	5.7	5.8	5.8	38.3	39.2	39.3	58.5	59.5	59.8
Tampa-St. Petersburg-Clearwater .....	75.3	79.2	79.5	408.3	441.9	442.0	132.1	134.5	133.9
West Palm Beach-Boca Raton .....	30.5	31.3	31.4	166.8	179.9	178.7	54.8	55.6	55.4

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		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>Georgia</b> .....	3,603.6	3,708.0	3,730.3	8.1	8.2	8.3	168.5	176.9	181.3
Albany.....	59.5	59.6	59.4	(2)	(2)	(2)	3.6	3.7	3.8
Athens.....	72.4	74.3	75.2	(1)	(1)	(1)	2.7	2.5	2.6
Atlanta.....	1,954.0	2,013.7	2,027.3	1.6	1.7	1.6	93.3	100.2	101.3
Augusta-Aiken.....	192.5	195.5	195.4	.4	.4	.4	11.6	10.9	11.0
Columbus.....	115.2	117.1	117.4	(1)	(1)	(1)	5.3	5.5	5.5
Macon.....	147.7	151.2	151.5	1.2	1.3	1.3	6.2	6.7	6.7
Savannah.....	132.0	134.3	134.5	(1)	(1)	(1)	7.7	7.4	7.6
<b>Hawaii</b> .....	533.7	529.9	529.8	(1)	(1)	(1)	22.0	21.4	21.3
Honolulu.....	405.7	400.8	401.1	(1)	(1)	(1)	17.1	16.6	16.5
<b>Idaho</b> .....	508.6	512.3	517.2	3.2	3.0	3.2	32.4	31.5	33.0
Boise City.....	193.2	196.2	195.4	(1)	(1)	(1)	13.8	12.4	12.0
<b>Illinois</b> .....	5,795.4	5,837.2	5,886.0	11.6	11.4	11.6	239.0	231.8	241.9
Bloomington-Normal.....	78.5	81.7	81.3	(1)	(1)	(1)	2.7	2.7	2.9
Champaign-Urbana.....	98.3	98.4	99.1	(1)	(1)	(1)	3.1	3.1	3.2
Chicago.....	4,040.9	4,065.3	4,102.1	1.7	1.7	1.8	161.2	156.5	162.9
Davenport-Moline-Rock Island.....	179.1	181.1	183.5	(1)	(1)	(1)	9.4	9.3	9.9
Decatur.....	57.3	57.3	57.8	(1)	(1)	(1)	4.0	3.8	4.0
Kankakee.....	43.2	43.4	43.5	(1)	(1)	(1)	2.0	1.8	1.8
Peoria-Pekin.....	171.5	172.8	174.7	(1)	(1)	(1)	8.2	7.2	7.7
Rockford.....	178.0	178.5	180.2	(1)	(1)	(1)	6.9	6.4	6.9
Springfield.....	112.4	113.3	114.1	(1)	(1)	(1)	4.9	4.8	4.9
<b>Indiana</b> .....	2,886.0	2,888.4	2,916.5	6.9	6.5	6.6	143.8	139.4	145.9
Bloomington.....	64.4	66.2	65.0	(1)	(1)	(1)	3.2	3.3	3.4
Elkhart-Goshen.....	118.6	117.5	118.1	(1)	(1)	(1)	4.7	4.8	4.9
Evansville-Henderson.....	153.9	152.5	154.8	1.3	1.2	1.3	9.5	9.4	9.6
Fort Wayne.....	270.6	271.2	273.8	(1)	(1)	(1)	13.0	13.1	13.9
Gary.....	266.6	266.4	268.0	(1)	(1)	(1)	17.8	17.1	17.9
Indianapolis.....	833.6	846.1	853.7	.8	.8	.8	46.0	48.5	49.8
Kokomo.....	52.5	53.3	53.9	(1)	(1)	(1)	2.2	2.4	2.6
Lafayette.....	92.3	95.2	94.6	(1)	(1)	(1)	3.9	3.8	4.1
Muncie.....	61.3	60.5	60.9	(1)	(1)	(1)	2.6	2.3	2.5
South Bend.....	135.0	134.9	136.4	(1)	(1)	(1)	7.8	7.2	7.4
Terre Haute.....	67.8	67.8	67.3	.2	.2	.3	3.1	3.0	3.1
<b>Iowa</b> .....	1,421.8	1,438.4	1,453.9	2.2	2.1	2.2	62.6	59.8	64.3
Cedar Rapids.....	111.9	115.0	116.0	(1)	(1)	(1)	5.4	6.0	6.1
Des Moines.....	271.9	271.9	271.5	(1)	(1)	(1)	12.4	11.8	11.8
Dubuque.....	51.6	52.6	52.6	(1)	(1)	(1)	2.0	2.0	2.1
Iowa City.....	67.0	68.6	68.8	(1)	(1)	(1)	2.3	2.4	2.6
Sioux City.....	65.8	65.4	66.4	(1)	(1)	(1)	3.6	3.6	4.0
Waterloo-Cedar Falls.....	71.8	73.0	73.2	(1)	(1)	(1)	2.9	2.7	2.8
<b>Kansas</b> .....	1,279.2	1,306.0	1,314.3	8.2	8.2	8.1	60.8	59.5	62.1
Lawrence.....	48.1	48.7	49.2	(1)	(1)	(1)	2.2	2.1	2.2
Topeka.....	98.2	99.5	99.8	(1)	(1)	(1)	4.5	4.6	4.8
Wichita.....	276.4	283.8	285.1	1.4	1.4	1.4	14.4	14.2	14.6
<b>Kentucky</b> .....	1,720.5	1,743.8	1,759.9	23.1	22.3	22.2	82.5	84.1	86.9
Lexington.....	269.9	277.4	278.8	.2	.2	.3	13.5	13.7	14.3
Louisville.....	551.1	566.5	571.5	.6	.5	.5	29.2	29.8	30.8
Owensboro.....	43.2	44.1	44.3	.3	.3	.3	3.3	3.5	3.6
<b>Louisiana</b> .....	1,850.6	1,881.2	1,887.9	53.2	55.6	55.5	116.3	117.9	120.0
Alexandria.....	53.6	54.3	54.7	.1	.1	.1	3.2	3.3	3.4
Baton Rouge.....	279.6	289.4	289.4	.9	1.0	1.0	30.1	33.6	33.8
Houma.....	73.7	77.6	78.1	7.0	7.6	7.6	3.3	3.8	3.9
Lafayette.....	161.3	164.5	165.4	14.8	15.6	15.6	8.9	10.2	10.5
Lake Charles.....	85.8	86.9	87.1	1.3	1.4	1.4	10.4	10.4	10.6
Monroe.....	68.1	68.8	68.6	.2	.2	.2	3.5	3.6	3.7
New Orleans.....	616.8	618.1	619.2	15.1	15.1	15.1	30.5	30.8	30.6
Shreveport-Bossier City.....	170.1	174.1	174.3	2.6	2.5	2.6	9.5	10.1	10.2
<b>Maine</b> .....	550.7	549.5	561.1	.1	.1	.1	23.8	21.5	24.5
Lewiston-Auburn.....	40.8	41.0	41.7	(2)	(2)	(2)	1.6	1.5	1.7
Portland.....	140.1	140.1	140.6	(2)	(2)	(2)	6.7	6.8	7.0

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Georgia</b> .....	588.9	589.4	590.8	229.1	237.7	238.8	906.7	928.0	934.5
Albany .....	9.2	8.7	8.6	3.0	3.2	3.1	13.7	14.1	14.0
Athens .....	11.5	11.7	11.7	1.8	1.9	1.9	18.4	18.3	18.5
Atlanta .....	218.0	220.5	221.2	162.9	169.3	170.2	517.7	527.9	533.1
Augusta-Aiken .....	41.2	41.7	41.4	6.6	6.7	6.8	41.8	43.0	43.0
Columbus .....	21.6	21.3	21.2	4.0	4.2	4.2	26.2	26.9	27.1
Macon .....	20.3	20.3	20.4	5.3	5.3	5.3	34.0	34.0	34.0
Savannah .....	17.3	18.3	18.2	9.7	9.7	9.8	33.1	34.0	34.1
<b>Hawaii</b> .....	16.6	16.2	16.1	41.4	40.4	40.3	133.9	131.8	131.8
Honolulu .....	12.8	12.4	12.4	33.3	32.5	32.5	99.3	97.4	97.4
<b>Idaho</b> .....	72.9	74.6	75.4	23.9	24.1	24.3	128.9	128.5	130.4
Boise City .....	34.2	36.5	36.5	9.3	9.8	9.9	46.5	46.0	46.3
<b>Illinois</b> .....	972.4	980.8	981.7	337.5	342.6	345.2	1,321.9	1,323.6	1,338.3
Bloomington-Normal .....	8.6	8.8	8.8	3.0	2.9	2.9	17.3	17.2	17.3
Champaign-Urbana .....	11.9	11.6	11.7	2.7	2.7	2.7	21.1	21.1	21.1
Chicago .....	656.9	660.4	661.0	247.1	251.4	253.5	914.0	916.1	928.5
Davenport-Moline-Rock Island .....	30.5	31.7	31.8	9.5	9.9	10.0	47.4	46.6	47.4
Decatur .....	13.5	13.6	13.6	5.0	4.9	4.9	12.4	12.3	12.5
Kankakee .....	8.1	8.3	8.3	2.0	2.0	2.0	10.9	10.9	10.9
Peoria-Pekin .....	32.2	32.6	32.8	9.5	9.7	9.8	41.6	42.2	42.6
Rockford .....	53.3	53.5	53.6	9.1	9.3	9.3	37.0	37.5	38.0
Springfield .....	4.4	4.7	4.8	4.9	4.9	4.9	24.0	24.3	24.5
<b>Indiana</b> .....	678.7	679.7	682.3	141.4	141.9	142.8	685.0	677.8	687.6
Bloomington .....	9.8	10.3	10.4	1.9	1.8	1.8	14.5	15.3	15.2
Elkhart-Goshen .....	58.7	58.7	59.2	3.0	2.7	2.7	22.5	22.0	22.2
Evansville-Henderson .....	32.5	31.3	32.0	7.2	7.0	7.1	38.3	37.8	38.1
Fort Wayne .....	75.3	75.7	76.1	12.9	12.7	12.8	64.1	64.4	64.6
Gary .....	50.3	49.4	49.6	15.7	15.6	15.5	63.9	63.2	64.5
Indianapolis .....	127.2	128.9	129.6	50.9	52.1	52.6	215.1	215.8	218.5
Kokomo .....	21.4	21.5	21.4	1.2	1.2	1.2	11.1	11.0	11.2
Lafayette .....	22.2	22.1	22.2	2.3	2.2	2.3	18.9	19.0	18.9
Muncie .....	11.1	9.8	9.7	3.3	3.6	3.5	13.7	13.6	13.7
South Bend .....	22.2	22.8	22.8	5.6	5.5	5.7	34.6	33.8	34.4
Terre Haute .....	11.8	12.0	12.0	2.9	2.6	2.7	19.2	19.2	19.2
<b>Iowa</b> .....	253.0	257.6	258.4	66.0	67.8	68.3	348.4	347.0	352.7
Cedar Rapids .....	21.2	22.3	22.4	8.1	7.7	7.8	25.2	25.6	25.8
Des Moines .....	24.8	25.3	24.7	13.5	13.6	13.5	70.4	70.1	70.4
Dubuque .....	12.0	11.7	11.8	2.2	2.1	2.1	12.3	12.5	12.6
Iowa City .....	4.7	4.8	4.7	2.4	2.2	2.3	12.9	13.0	13.0
Sioux City .....	12.8	13.3	13.3	3.9	3.8	3.9	16.3	15.4	15.6
Waterloo-Cedar Falls .....	14.8	15.0	15.2	2.4	2.4	2.4	16.7	16.6	16.8
<b>Kansas</b> .....	205.1	211.2	211.8	72.6	73.8	74.5	308.8	316.3	319.1
Lawrence .....	5.3	5.4	5.5	1.2	1.3	1.3	12.0	11.8	11.9
Topeka .....	9.4	10.1	9.9	8.3	6.1	6.1	21.4	21.0	21.2
Wichita .....	68.4	73.2	73.4	10.9	11.1	11.1	62.0	62.6	63.0
<b>Kentucky</b> .....	314.1	314.4	316.2	97.2	100.8	101.5	410.0	413.9	419.0
Lexington .....	46.5	47.8	48.3	10.6	10.8	10.7	60.0	62.3	62.5
Louisville .....	86.4	89.1	88.9	40.4	43.5	43.6	135.6	136.2	140.1
Owensboro .....	7.0	7.1	7.1	2.2	2.3	2.3	10.8	11.0	11.0
<b>Louisiana</b> .....	191.9	189.3	190.5	110.0	112.7	113.4	428.0	434.5	437.0
Alexandria .....	3.4	3.5	3.5	2.6	2.7	2.7	12.1	12.4	12.5
Baton Rouge .....	24.4	25.0	25.1	12.4	12.7	12.7	65.2	67.6	67.8
Houma .....	6.9	7.5	7.7	8.0	8.6	8.8	17.3	17.8	17.7
Lafayette .....	16.8	14.6	14.6	9.6	10.2	10.3	41.1	42.2	42.3
Lake Charles .....	11.8	12.2	12.2	4.2	4.3	4.4	18.2	18.5	18.5
Monroe .....	7.9	8.0	8.0	3.8	3.6	3.6	16.9	17.0	16.9
New Orleans .....	49.4	49.2	49.1	42.3	42.5	42.7	150.9	149.7	150.5
Shreveport-Bossier City .....	19.4	19.3	19.4	8.3	8.6	8.6	38.8	40.1	39.9
<b>Maine</b> .....	86.9	85.9	86.2	22.9	23.2	23.8	137.5	134.3	139.4
Lewiston-Auburn .....	7.9	7.8	7.9	1.7	1.7	1.7	10.1	10.1	10.3
Portland .....	14.8	14.8	14.7	6.5	6.5	6.5	39.6	39.8	40.2

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		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Georgia</b> .....	185.5	193.7	194.5	934.5	981.4	987.8	582.3	592.7	594.3
Albany .....	2.1	2.1	2.1	15.1	15.1	15.0	12.8	12.7	12.8
Athens .....	2.2	2.2	2.2	15.5	15.1	15.4	20.3	22.6	22.9
Atlanta .....	126.5	131.7	132.2	575.5	602.8	607.3	258.5	259.6	260.4
Augusta-Aiken .....	6.0	5.9	5.8	45.7	47.3	47.3	39.2	39.6	39.7
Columbus .....	8.1	8.3	8.3	29.6	30.4	30.5	20.4	20.5	20.6
Macon .....	8.3	9.1	9.2	39.2	41.1	41.1	33.2	33.4	33.5
Savannah .....	4.3	4.3	4.3	38.8	39.6	39.5	21.1	21.0	21.0
<b>Hawaii</b> .....	36.1	35.2	35.0	168.3	170.1	169.4	115.4	114.8	115.9
Honolulu .....	29.0	28.1	28.0	121.0	121.5	121.0	93.2	92.3	93.3
<b>Idaho</b> .....	25.2	26.2	26.4	121.1	121.0	121.5	101.0	103.4	103.0
Boise City .....	10.8	11.5	11.8	48.9	48.6	48.8	29.7	31.4	30.1
<b>Illinois</b> .....	396.6	406.8	408.8	1,688.1	1,719.2	1,734.6	828.3	821.0	823.9
Bloomington-Normal .....	13.9	14.9	15.3	19.8	20.6	20.6	13.2	14.6	13.5
Champaign-Urbana .....	3.6	3.7	3.7	21.1	21.6	21.6	34.8	34.6	35.1
Chicago .....	309.8	317.9	319.5	1,252.7	1,272.6	1,282.5	497.5	488.7	492.4
Davenport-Moline-Rock Island .....	8.1	8.3	8.3	46.9	47.7	48.4	27.3	27.6	27.7
Decatur .....	2.0	2.0	2.0	13.6	13.7	13.7	6.8	7.0	7.1
Kankakee .....	1.7	1.7	1.7	11.6	11.6	11.7	6.9	7.1	7.1
Peoria-Pekin .....	7.9	8.0	8.0	52.5	53.5	54.1	19.6	19.6	19.7
Rockford .....	7.4	7.7	7.6	46.1	46.0	46.4	18.2	18.1	18.4
Springfield .....	7.9	7.8	7.8	32.5	33.0	33.3	33.8	33.8	33.9
<b>Indiana</b> .....	138.6	140.0	141.2	689.4	701.5	704.5	402.2	401.6	405.6
Bloomington .....	2.4	2.2	2.2	12.8	12.8	12.8	19.8	20.5	19.2
Elkhart-Goshen .....	2.9	3.2	3.2	19.1	19.2	18.7	7.7	6.9	7.2
Evansville-Henderson .....	7.3	7.4	7.5	42.4	44.0	44.3	15.4	14.4	14.9
Fort Wayne .....	14.9	14.4	14.4	62.8	62.9	63.6	27.6	28.0	28.4
Gary .....	9.2	9.5	9.5	72.7	74.4	73.1	37.0	37.2	37.9
Indianapolis .....	61.9	65.7	65.9	225.5	230.4	231.4	106.2	103.9	105.1
Kokomo .....	1.5	1.5	1.5	8.1	8.7	8.9	7.0	7.0	7.1
Lafayette .....	3.9	4.3	4.4	17.5	19.4	19.5	23.6	24.4	23.2
Muncie .....	1.8	1.9	1.9	15.9	17.2	17.3	12.9	12.1	12.3
South Bend .....	6.7	6.4	6.4	44.5	45.2	45.6	13.6	14.0	14.1
Terre Haute .....	2.3	2.2	2.3	16.9	16.5	16.4	11.4	12.1	11.3
<b>Iowa</b> .....	79.0	81.1	81.8	369.3	379.4	381.2	241.3	243.6	245.0
Cedar Rapids .....	5.8	6.3	6.3	34.5	35.6	35.9	11.7	11.5	11.7
Des Moines .....	37.1	38.2	38.6	78.0	78.9	78.6	35.7	34.0	33.9
Dubuque .....	1.7	1.8	1.8	17.6	18.3	18.3	3.8	3.8	3.9
Iowa City .....	1.9	2.0	2.1	14.5	15.3	15.4	28.3	28.9	28.7
Sioux City .....	2.6	2.6	2.6	18.9	19.0	19.2	7.7	7.7	7.8
Waterloo-Cedar Falls .....	3.2	3.3	3.2	18.9	19.9	19.7	12.9	13.1	13.1
<b>Kansas</b> .....	61.3	61.1	61.1	317.8	330.1	329.9	244.6	245.8	247.7
Lawrence .....	2.0	2.1	2.1	11.2	11.7	11.8	14.2	14.3	14.4
Topeka .....	6.7	6.9	6.8	27.2	28.7	28.5	22.1	22.5	22.5
Wichita .....	11.0	11.1	11.2	74.2	75.7	75.8	34.1	34.5	34.6
<b>Kentucky</b> .....	69.0	70.8	71.0	426.0	438.4	443.5	298.6	299.1	299.6
Lexington .....	9.9	10.3	10.3	72.5	75.1	75.6	56.7	57.2	56.8
Louisville .....	29.2	29.3	29.5	160.0	165.4	167.0	69.7	70.7	71.1
Owensboro .....	1.7	1.8	1.8	10.7	10.8	10.9	7.2	7.3	7.3
<b>Louisiana</b> .....	85.4	86.6	86.7	499.3	512.1	513.5	366.5	372.5	371.3
Alexandria .....	2.3	2.3	2.3	16.6	16.7	16.8	13.3	13.3	13.4
Baton Rouge .....	17.5	17.8	17.9	72.7	74.2	74.5	56.4	57.5	56.6
Houma .....	2.3	2.3	2.3	15.8	16.3	16.4	13.1	13.7	13.7
Lafayette .....	6.1	6.2	6.2	40.7	41.5	41.9	23.3	24.0	24.0
Lake Charles .....	2.6	2.7	2.7	23.8	24.3	24.2	13.5	13.1	13.1
Monroe .....	4.8	4.9	4.9	18.0	18.4	18.4	13.0	13.1	12.9
New Orleans .....	31.7	31.3	31.1	190.9	191.4	192.0	106.0	108.1	108.1
Shreveport-Bossier City .....	6.6	6.6	6.6	52.2	53.9	54.1	32.7	33.0	32.9
<b>Maine</b> .....	28.1	30.0	30.3	156.1	159.1	162.8	95.3	95.4	94.0
Lewiston-Auburn .....	2.1	2.2	2.3	12.6	12.7	12.8	4.8	5.0	5.0
Portland .....	12.5	12.8	12.8	41.8	40.9	40.9	18.2	18.5	18.5

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		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>Maryland</b> .....	2,273.6	2,270.7	2,286.9	1.3	1.3	1.3	139.6	135.2	135.0
Baltimore PMSA .....	1,167.6	1,181.9	1,188.7	.2	.2	.2	64.6	64.0	64.2
Baltimore City .....	405.3	408.4	410.5	(1)	(1)	(1)	12.6	12.8	12.9
Suburban Maryland-D.C. ....	832.4	840.5	844.7	(1)	(1)	(1)	60.2	59.9	59.8
<b>Massachusetts</b> .....	3,119.5	3,184.8	3,214.6	1.3	1.4	1.4	100.4	103.0	108.3
Barnstable-Yarmouth .....	57.3	55.5	59.0	(1)	(1)	(1)	2.7	2.7	2.8
Boston .....	1,910.7	1,946.5	1,964.6	.4	.5	.5	56.9	57.9	61.2
Brockton .....	95.1	97.1	97.7	(2)	(2)	(2)	3.2	3.2	3.4
Fitchburg-Leominster .....	52.9	54.0	54.1	(2)	(2)	(2)	1.6	1.6	1.8
Lawrence .....	150.4	151.1	152.8	(2)	(2)	(2)	5.7	5.6	6.0
Lowell .....	115.7	120.3	120.6	(1)	(1)	(1)	5.1	5.0	5.1
New Bedford .....	63.5	64.7	65.3	(2)	(2)	(2)	2.2	2.0	2.2
Pittsfield .....	41.6	41.8	42.8	.1	.1	.1	1.6	1.6	1.8
Springfield .....	253.5	258.6	260.6	.1	.1	.1	7.8	7.5	7.9
Worcester .....	223.3	226.0	228.0	.2	.2	.2	7.0	6.9	7.1
<b>Michigan</b> .....	4,483.8	4,509.7	4,551.9	8.0	7.5	7.9	184.1	179.0	192.3
Ann Arbor .....	264.9	272.7	271.0	(1)	(1)	(1)	10.1	9.8	10.8
Benton Harbor .....	72.2	71.4	72.4	(1)	(1)	(1)	2.3	2.4	2.5
Detroit .....	2,088.7	2,122.0	2,144.3	.8	.8	.8	80.0	79.4	84.3
Flint .....	180.7	181.6	183.9	(1)	(1)	(1)	6.8	7.0	7.8
Grand Rapids-Muskegon-Holland ..	554.2	563.3	570.4	(1)	(1)	(1)	25.9	25.6	26.4
Jackson .....	61.4	61.5	62.6	(1)	(1)	(1)	2.4	2.3	2.5
Kalamazoo-Battle Creek .....	209.4	211.3	211.6	(1)	(1)	(1)	8.5	8.2	8.9
Lansing-East Lansing .....	236.5	235.7	233.5	(1)	(1)	(1)	8.8	8.6	9.4
Saginaw-Bay City-Midland .....	180.6	179.8	183.2	(1)	(1)	(1)	9.5	8.3	8.9
<b>Minnesota</b> .....	2,497.6	2,518.8	2,559.8	8.2	7.6	8.0	95.7	89.4	101.5
Duluth-Superior .....	110.4	110.6	112.8	5.1	4.9	4.9	3.8	3.5	4.1
Minneapolis-St. Paul .....	1,617.6	1,636.1	1,657.6	(2)	(2)	(2)	60.1	57.8	63.8
Rochester .....	72.8	74.5	75.7	(1)	(1)	(1)	3.0	2.8	3.2
St. Cloud .....	86.3	86.7	87.9	(1)	(1)	(1)	4.0	3.7	4.4
<b>Mississippi</b> .....	1,111.8	1,121.5	1,124.2	6.2	6.0	6.0	51.4	51.9	52.9
Jackson .....	221.6	226.0	226.0	(2)	(2)	(2)	11.6	11.7	12.0
<b>Missouri</b> .....	2,658.7	2,676.7	2,697.2	4.8	4.8	4.9	123.0	121.8	124.8
Kansas City .....	920.0	945.4	950.3	(1)	(1)	(1)	47.0	47.9	49.3
St. Louis .....	1,295.5	1,305.1	1,310.2	(1)	(1)	(1)	66.4	65.7	67.0
Springfield .....	160.6	163.0	164.3	(1)	(1)	(1)	6.7	6.6	6.8
<b>Montana</b> .....	367.7	366.6	374.5	5.6	5.1	5.3	18.0	16.7	18.1
<b>Nebraska</b> .....	857.7	875.9	882.9	1.3	1.3	1.3	39.0	39.8	41.7
Lincoln .....	145.5	146.2	147.7	(1)	(1)	(1)	6.5	6.8	7.4
Omaha .....	397.3	412.4	415.4	(1)	(1)	(1)	18.3	19.5	20.6
<b>Nevada</b> .....	887.8	918.9	924.4	14.6	13.6	13.6	81.7	86.0	87.8
Las Vegas .....	628.8	655.9	658.5	2.2	2.1	2.1	64.4	68.0	68.9
Reno .....	177.9	180.2	181.8	.7	.6	.6	12.0	12.5	13.1
<b>New Hampshire</b> .....	569.8	568.6	573.6	.5	.4	.5	21.7	21.4	22.3
Manchester .....	96.4	96.7	96.7	(1)	(1)	(1)	4.4	4.5	4.6
Nashua .....	91.6	93.8	93.9	(1)	(1)	(1)	2.9	3.1	3.2
Portsmouth-Rochester .....	114.7	113.2	114.6	(1)	(1)	(1)	3.1	3.0	3.1
<b>New Jersey</b> .....	3,727.0	3,765.7	3,801.6	2.0	1.9	1.9	132.9	133.3	137.2
Atlantic-Cape May .....	181.3	176.6	183.8	(1)	(1)	(1)	7.8	7.1	7.3
Bergen-Passaic .....	637.5	646.5	649.0	(1)	(1)	(1)	22.2	22.2	22.6
Camden .....	469.4	478.1	483.7	(1)	(1)	(1)	21.6	21.9	22.5
Jersey City .....	239.2	242.1	243.8	(1)	(1)	(1)	4.3	4.7	4.7
Middlesex-Somerset-Hunterdon ..	607.3	623.0	627.3	.5	.5	.5	19.2	19.2	19.8
Monmouth-Ocean .....	365.1	361.0	370.5	(1)	(1)	(1)	18.0	18.0	18.8
Newark .....	946.9	959.0	965.6	.8	.9	.9	31.7	32.4	32.9
Trenton .....	198.9	198.5	198.5	(1)	(1)	(1)	4.6	4.7	4.7
Vineland-Milville-Bridgeton .....	58.5	59.4	59.8	.3	.3	.2	2.2	1.9	1.9
<b>New Mexico</b> .....	710.2	713.9	720.2	15.6	15.4	15.5	43.2	42.3	43.5
Albuquerque .....	334.4	337.2	339.9	(1)	(1)	(1)	22.5	21.4	21.9
Las Cruces .....	51.5	52.6	52.7	(1)	(1)	(1)	3.2	3.2	3.3
Santa Fe .....	70.8	72.3	72.9	(1)	(1)	(1)	3.6	3.8	3.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Maryland</b> .....	176.5	176.0	176.5	107.8	104.8	106.0	536.5	531.3	538.5
Baltimore PMSA .....	100.6	100.1	100.0	58.7	59.1	59.7	269.0	271.1	275.1
Baltimore City .....	31.9	31.2	31.1	20.1	20.7	20.8	64.4	64.0	64.9
Suburban Maryland-D.C. ....	38.2	39.1	39.0	34.2	34.0	34.2	197.1	194.5	198.8
<b>Massachusetts</b> .....	446.7	453.9	454.6	134.4	137.7	138.2	703.1	715.5	728.1
Barnstable-Yarmouth .....	2.0	2.1	2.1	3.0	2.8	2.9	19.1	18.1	20.0
Boston .....	221.7	225.6	226.4	83.1	84.6	84.9	409.6	416.8	423.4
Brockton .....	10.7	10.6	10.5	5.0	4.8	4.8	30.9	31.2	31.6
Fitchburg-Leominster .....	13.8	13.9	13.9	2.1	2.1	2.1	12.3	12.3	12.4
Lawrence .....	38.3	38.4	38.4	5.0	4.9	5.0	34.2	33.8	34.5
Lowell .....	28.5	29.9	30.1	6.7	6.9	7.1	24.3	25.3	25.2
New Bedford .....	13.3	13.7	13.7	3.4	3.7	3.8	16.3	15.9	16.2
Pittsfield .....	7.6	7.5	7.5	1.2	1.2	1.3	10.1	10.1	10.3
Springfield .....	39.0	39.3	39.2	9.8	10.3	10.2	58.0	58.2	58.9
Worcester .....	41.2	42.3	42.4	9.5	9.3	9.5	49.2	50.1	50.9
<b>Michigan</b> .....	970.0	978.6	978.2	173.4	173.5	177.1	1,046.4	1,043.2	1,068.1
Ann Arbor .....	52.6	53.6	53.3	6.3	6.5	6.5	53.2	53.7	54.5
Benton Harbor .....	20.2	20.1	20.0	2.9	2.9	2.9	16.0	15.7	16.2
Detroit .....	444.5	445.9	444.7	94.4	95.2	97.5	481.6	491.5	499.7
Flint .....	41.4	40.4	40.6	5.4	5.4	5.5	45.1	45.3	46.2
Grand Rapids-Muskegon-Holland ..	154.5	157.1	158.2	18.7	18.8	18.9	137.0	139.2	141.6
Jackson .....	13.0	13.0	12.9	3.4	3.4	3.5	15.5	15.7	16.1
Kalamazoo-Battle Creek .....	49.5	49.6	49.9	7.0	7.1	7.1	46.5	46.2	47.0
Lansing-East Lansing .....	30.1	29.8	29.9	6.2	6.2	6.2	51.5	51.7	52.3
Saginaw-Bay City-Midland .....	39.7	39.9	40.1	7.4	7.2	7.2	45.1	45.5	46.4
<b>Minnesota</b> .....	430.4	438.1	440.0	124.4	125.5	126.8	600.1	600.5	610.7
Duluth-Superior .....	8.2	8.5	8.6	7.0	7.2	7.3	27.5	27.5	28.2
Minneapolis-St. Paul .....	273.7	274.5	275.8	88.4	89.5	90.3	382.9	386.4	389.9
Rochester .....	11.2	12.7	12.8	2.1	2.1	2.2	14.7	14.7	14.9
St. Cloud .....	15.6	15.9	15.9	3.1	3.1	3.1	25.6	25.7	25.9
<b>Mississippi</b> .....	243.2	241.5	241.8	52.8	53.3	53.2	237.2	239.1	239.4
Jackson .....	20.8	20.9	20.9	15.5	15.9	15.8	53.4	54.5	54.6
<b>Missouri</b> .....	418.4	421.2	420.4	166.1	166.4	166.6	625.5	627.5	634.9
Kansas City .....	106.9	108.5	108.9	74.5	78.6	78.6	224.2	229.8	230.8
St. Louis .....	196.2	196.8	197.1	83.4	82.8	83.4	304.9	306.6	310.2
Springfield .....	23.9	23.7	23.6	10.6	10.4	10.5	45.0	45.4	46.0
<b>Montana</b> .....	23.7	23.8	24.4	21.2	21.3	21.5	99.1	97.2	99.6
<b>Nebraska</b> .....	114.3	118.8	118.8	54.0	55.2	55.2	210.2	213.2	214.8
Lincoln .....	15.5	17.6	17.6	9.2	9.7	9.9	30.8	30.3	30.6
Omaha .....	39.6	41.0	41.2	28.6	28.8	29.1	94.7	97.4	98.3
<b>Nevada</b> .....	40.4	42.3	42.5	45.3	46.8	47.2	177.7	184.7	186.4
Las Vegas .....	21.9	22.6	22.8	32.5	33.6	33.9	127.4	133.6	134.4
Reno .....	13.3	14.1	14.1	11.2	11.3	11.3	40.2	40.5	41.1
<b>New Hampshire</b> .....	106.8	108.5	108.0	19.7	19.4	19.6	146.6	146.2	148.4
Manchester .....	14.2	13.8	13.5	5.6	5.8	5.7	23.5	23.4	23.6
Nashua .....	27.4	27.9	27.7	2.2	2.4	2.5	22.3	23.2	23.0
Portsmouth-Rochester .....	19.6	20.0	19.9	4.0	3.9	4.1	30.1	29.4	30.3
<b>New Jersey</b> .....	481.4	481.0	481.6	257.9	261.4	263.7	867.8	867.7	885.1
Atlantic-Cape May .....	6.5	6.5	6.5	7.1	7.1	7.3	37.6	34.9	38.8
Bergen-Passaic .....	106.5	105.9	106.5	34.8	36.3	37.1	174.6	176.4	178.0
Camden .....	54.8	55.5	55.8	22.3	22.1	22.2	124.3	125.0	126.8
Jersey City .....	28.7	28.7	29.7	28.3	28.4	28.3	54.7	55.2	55.7
Middlesex-Somerset-Hunterdon ..	91.7	93.3	93.1	50.7	51.7	52.3	141.3	143.8	145.7
Monmouth-Ocean .....	21.1	20.2	20.3	20.9	20.9	21.4	99.3	96.8	101.6
Newark .....	134.5	135.5	136.4	80.3	81.3	83.1	188.9	189.0	192.0
Trenton .....	20.1	19.1	19.1	7.2	7.3	7.3	32.3	32.5	32.8
Vineland-Millville-Bridgeton ..	13.1	12.7	13.1	3.0	2.9	3.0	11.3	11.6	11.7
<b>New Mexico</b> .....	45.5	44.7	44.9	32.2	33.0	33.4	167.4	168.6	171.7
Albuquerque .....	29.0	29.3	29.3	15.4	16.1	16.3	80.2	82.0	83.0
Las Cruces .....	2.7	2.7	2.7	1.8	1.8	1.8	10.8	11.2	11.2
Santa Fe .....	2.0	2.1	2.1	1.3	1.2	1.3	15.1	14.9	15.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>Maryland</b> .....	130.0	131.5	131.9	758.3	763.8	770.2	423.6	426.8	427.5
Baltimore PMSA .....	72.4	72.9	73.3	390.8	398.9	401.2	211.3	215.6	215.0
Baltimore City .....	33.7	33.8	34.0	155.2	156.0	157.3	87.4	89.9	89.5
Suburban Maryland-D.C. ....	49.1	49.3	49.4	286.2	291.5	293.9	167.4	172.2	172.6
<b>Massachusetts</b> .....	211.4	215.0	216.3	1,110.3	1,142.4	1,150.4	411.9	415.9	417.3
Barnstable-Yarmouth .....	3.4	3.2	3.3	19.6	19.1	20.4	7.5	7.5	7.5
Boston .....	157.2	160.1	160.8	751.4	770.7	775.9	230.4	230.3	231.5
Brockton .....	3.2	3.4	3.4	25.6	27.2	27.4	16.5	16.7	16.6
Fitchburg-Leominster .....	1.5	1.7	1.7	13.6	13.8	13.7	8.0	8.6	8.5
Lawrence .....	4.3	4.2	4.2	44.1	44.7	45.6	18.8	19.5	19.1
Lowell .....	3.7	3.8	3.8	31.9	33.3	33.4	15.5	16.1	15.9
New Bedford .....	1.8	1.8	1.8	16.6	17.5	17.6	9.9	10.1	10.0
Pittsfield .....	1.9	1.9	1.9	14.0	14.0	14.4	5.1	5.4	5.5
Springfield .....	12.6	12.9	13.1	79.9	82.8	83.3	46.3	47.5	47.9
Worcester .....	15.2	14.9	14.9	66.4	66.8	67.2	34.6	35.5	35.8
<b>Michigan</b> .....	206.5	208.1	187.8	1,226.3	1,247.9	1,266.9	669.1	671.9	673.6
Ann Arbor .....	9.9	10.1	10.2	64.6	66.0	67.1	68.2	73.0	68.6
Benton Harbor .....	2.6	2.3	2.3	19.4	19.3	19.6	8.9	8.7	8.9
Detroit .....	111.9	113.0	113.3	642.2	661.2	667.8	233.5	235.0	236.2
Flint .....	6.5	6.5	6.6	50.1	52.0	52.0	25.4	25.0	25.2
Grand Rapids-Muskegon-Holland ..	22.2	22.8	23.2	140.9	143.9	145.6	55.0	55.9	56.5
Jackson .....	1.9	1.9	1.9	14.8	14.8	15.0	10.3	10.4	10.7
Kalamazoo-Battle Creek .....	10.8	11.0	10.8	53.6	53.9	54.4	33.5	35.3	33.5
Lansing-East Lansing .....	13.7	14.0	14.1	57.4	57.8	58.7	68.7	67.6	62.9
Saginaw-Bay City-Midland .....	7.0	6.9	7.0	49.3	49.4	50.4	22.8	22.6	23.2
<b>Minnesota</b> .....	145.2	150.3	151.1	703.3	716.9	728.1	390.3	390.5	393.6
Duluth-Superior .....	3.4	3.4	3.5	31.3	31.9	32.5	24.1	23.7	23.7
Minneapolis-St. Paul .....	113.8	116.5	116.9	472.2	481.1	487.7	225.9	229.8	232.6
Rochester .....	2.3	2.3	2.3	32.2	32.8	33.1	7.3	7.1	7.2
St. Cloud .....	3.0	3.1	3.1	21.6	22.0	22.2	13.4	13.2	13.3
<b>Mississippi</b> .....	41.8	41.4	41.5	258.5	264.8	266.1	220.7	223.5	223.3
Jackson .....	15.6	16.3	16.3	58.8	60.1	60.0	45.1	45.6	45.4
<b>Missouri</b> .....	154.1	156.3	157.4	742.0	748.0	755.6	424.8	430.7	432.6
Kansas City .....	64.2	67.1	67.7	269.5	275.0	277.3	133.7	138.5	137.7
St. Louis .....	79.5	81.1	81.3	408.2	414.7	416.2	156.9	157.4	155.0
Springfield .....	6.8	7.1	7.1	47.4	49.2	49.2	20.2	20.6	21.1
<b>Montana</b> .....	16.3	16.7	16.9	104.6	105.7	107.8	79.2	80.1	80.9
<b>Nebraska</b> .....	54.1	56.8	57.0	228.7	237.0	239.0	156.1	153.8	155.1
Lincoln .....	9.2	9.8	9.8	37.7	37.3	37.5	36.6	34.7	34.9
Omaha .....	34.0	36.5	36.9	130.4	137.2	137.2	51.7	52.0	52.1
<b>Nevada</b> .....	39.8	41.8	42.1	380.5	391.2	393.1	107.8	112.5	111.7
Las Vegas .....	30.1	31.5	31.8	283.9	293.6	294.8	66.4	70.9	69.8
Reno .....	8.0	8.3	8.4	68.9	68.9	69.2	23.6	24.0	24.0
<b>New Hampshire</b> .....	29.3	29.6	29.6	164.8	161.4	164.1	80.4	81.7	81.1
Manchester .....	7.3	7.1	7.2	30.7	30.7	30.7	10.7	11.4	11.4
Nashua .....	4.5	4.4	4.3	23.7	24.1	24.5	8.6	8.7	8.7
Portsmouth-Rochester .....	6.1	6.3	6.5	29.8	28.9	29.2	22.0	21.7	21.5
<b>New Jersey</b> .....	237.8	241.7	243.7	1,172.8	1,203.0	1,215.8	574.4	575.7	572.6
Atlantic-Cape May .....	6.3	6.2	6.3	87.5	86.0	88.8	28.5	28.8	28.8
Bergen-Passaic .....	34.3	34.7	34.9	193.8	199.9	200.8	71.3	71.1	69.1
Camden .....	21.9	23.5	23.7	145.6	149.7	152.5	78.9	80.4	80.2
Jersey City .....	25.6	26.4	26.7	58.5	60.1	60.2	39.1	38.6	38.5
Middlesex-Somerset-Hunterdon ..	45.1	45.0	45.0	180.9	190.9	192.3	77.9	78.6	78.6
Monmouth-Ocean .....	18.0	17.7	17.8	123.1	123.4	126.7	64.7	64.0	63.9
Newark .....	71.4	72.3	72.5	295.8	303.5	304.6	143.5	144.1	143.2
Trenton .....	11.4	11.5	11.5	70.4	72.2	71.8	52.9	51.2	51.3
Vineland-Millville-Bridgeton .....	3.1	3.0	3.0	12.3	12.8	12.4	13.2	14.2	14.5
<b>New Mexico</b> .....	31.4	31.4	31.6	194.8	197.5	198.7	180.1	181.0	180.9
Albuquerque .....	16.7	16.9	17.0	105.1	105.9	106.8	65.5	65.6	65.6
Las Cruces .....	1.9	2.0	2.0	10.8	11.5	11.5	20.3	20.2	20.2
Santa Fe .....	3.2	3.3	3.3	20.9	21.5	21.7	24.7	25.5	25.5

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		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>New York</b> .....	8,051.6	8,098.0	8,175.5	4.6	4.4	4.6	265.0	259.7	275.4
Albany-Schenectady-Troy .....	434.5	433.8	438.0				15.3	13.7	15.4
Binghamton .....	113.9	114.2	115.6	(1)	(1)	(1)	4.0	3.5	3.9
Buffalo-Niagara Falls .....	548.6	540.1	549.3	(1)	(1)	(1)	20.9	18.8	21.1
Dutchess County .....	107.3	108.4	109.5	(1)	(1)	(1)	4.2	4.1	4.5
Elmira .....	43.0	42.4	43.0	(1)	(1)	(1)	1.6	1.4	1.6
Glens Falls .....	49.9	48.4	50.6	(1)	(1)	(1)	1.9	1.9	2.0
Nassau-Suffolk .....	1,124.5	1,131.3	1,145.6	(1)	(1)	(1)	49.0	50.7	52.4
New York PMSA .....	3,914.5	3,984.6	4,006.0	(1)	(1)	(1)	116.4	120.0	122.6
New York City .....	3,406.9	3,472.7	3,486.0	.3	.3	.3	92.7	96.6	97.8
Newburgh .....	120.1	119.0	121.2	(1)	(1)	(1)	4.2	4.2	4.4
Rochester .....	535.4	524.7	531.6	.5	.4	.4	17.6	15.0	16.6
Rockland County .....	99.9	103.0	104.6	(1)	(1)	(1)	3.6	3.6	3.8
Syracuse .....	337.2	336.0	337.2	(1)	(1)	(1)	13.1	11.4	13.0
Utica-Rome .....	128.0	127.0	129.7	(1)	(1)	(1)	3.5	3.1	3.8
Westchester County .....	387.5	388.3	394.4	(1)	(1)	(1)	18.3	17.8	18.8
<b>North Carolina</b> .....	3,669.3	3,738.5	3,756.6	4.0	3.9	4.0	204.5	208.2	211.8
Asheville .....	108.8	109.5	110.2	(1)	(1)	(1)	6.0	5.8	5.9
Charlotte-Gastonia-Rock Hill .....	757.7	768.2	769.9	(1)	(1)	(1)	46.5	47.3	47.4
Greensboro-Winston-Salem-High Point .....	634.4	638.1	638.7	(1)	(1)	(1)	31.3	31.6	31.7
Raleigh-Durham-Chapel Hill .....	612.0	635.1	634.2	(1)	(1)	(1)	34.5	35.3	35.6
<b>North Dakota</b> .....	315.9	316.7	321.0	4.3	4.0	4.1	15.7	13.8	16.0
Bismarck .....	49.4	49.3	50.2	(1)	(1)	(1)	2.7	2.4	2.6
Fargo-Moorhead .....	96.3	98.5	99.1	(1)	(1)	(1)	5.5	4.8	5.5
Grand Forks .....	44.8	48.6	47.5	(1)	(1)	(1)	2.6	2.5	2.8
<b>Ohio</b> .....	5,426.1	5,435.0	5,495.6	13.5	13.3	13.4	227.7	224.5	236.2
Akron .....	326.0	326.2	330.4	.5	.5	.5	12.9	12.8	13.5
Canton-Massillon .....	181.9	184.9	186.5	.5	.5	.5	8.6	8.6	8.9
Cincinnati .....	847.7	862.9	872.7	.7	.7	.7	39.7	40.8	41.9
Cleveland-Lorain-Elyria .....	1,142.8	1,154.9	1,164.7	.8	.8	.8	44.2	44.2	46.2
Columbus .....	816.3	829.3	837.9	.7	.7	.7	35.4	36.2	38.2
Dayton-Springfield .....	475.5	477.1	478.4	.4	.4	.4	17.3	17.6	18.1
Hamilton-Middletown .....	118.9	119.2	119.5	(1)	(1)	(1)	6.9	7.2	7.2
Lima .....	77.8	78.4	79.0	(1)	(1)	(1)	3.8	3.8	3.8
Mansfield .....	80.5	78.7	79.5	(1)	(1)	(1)	2.6	2.4	2.5
Stuebenville-Weirton .....	48.8	50.8	51.2	.4	.4	.4	1.6	1.6	1.5
Toledo .....	319.1	317.4	319.5	.2	.1	.1	15.2	14.5	15.1
Youngstown-Warren .....	249.0	249.4	252.0	.5	.5	.5	10.2	9.8	10.3
<b>Oklahoma</b> .....	1,393.1	1,419.3	1,432.3	31.6	31.5	31.8	50.4	51.9	53.2
Enid .....	24.4	25.5	25.5	1.1	1.2	1.2	.9	1.1	1.1
Lawton .....	37.7	37.1	37.5	.1	.1	.1	1.2	.9	1.0
Oklahoma City .....	498.8	508.6	511.6	7.2	7.4	7.4	18.5	18.5	18.9
Tulsa .....	372.0	383.2	386.0	7.7	7.6	7.6	14.4	16.1	16.6
<b>Oregon</b> .....	1,526.3	1,555.2	1,567.3	1.8	1.8	1.8	80.8	80.8	81.0
Eugene-Springfield .....	138.1	139.5	141.0	.2	.2	.2	7.0	7.2	7.5
Medford-Ashland .....	67.4	69.1	69.9	.1	.1	.1	3.3	3.3	3.3
Portland-Vancouver .....	916.5	940.6	946.8	1.1	1.1	1.1	53.6	51.5	52.0
Salem .....	130.8	132.2	132.8	.3	.3	.3	7.3	7.7	7.9
<b>Pennsylvania</b> .....	5,425.0	5,458.1	5,488.6	20.5	20.1	20.3	216.1	214.3	224.1
Allentown Bethlehem-Easton .....	267.1	266.4	267.7	(1)	(1)	(1)	10.5	9.9	10.2
Altoona .....	57.9	58.6	59.1	(1)	(1)	(1)	2.6	2.3	2.4
Erie .....	128.6	129.8	130.6	(1)	(1)	(1)	4.5	4.1	4.5
Harrisburg-Lebanon-Carlisle .....	353.7	355.2	359.0	(1)	(1)	(1)	12.8	12.9	13.2
Johnstown .....	88.7	88.0	89.2	(1)	(1)	(1)	4.7	4.2	4.5
Lancaster .....	214.2	217.6	218.7	.4	.4	.4	12.2	12.7	12.8
Philadelphia PMSA .....	2,262.7	2,276.1	2,284.1	(1)	(1)	(1)	87.7	88.1	91.2
Philadelphia City .....	666.2	677.0	672.9	(1)	(1)	(1)	10.8	10.5	11.0
Pittsburgh .....	1,076.7	1,071.5	1,080.7	4.5	4.7	4.8	50.5	48.3	51.4
Reading .....	165.9	166.3	167.3	(1)	(1)	(1)	7.1	7.0	7.1
Scranton-Wilkes-Barre-Hazleton .....	276.4	276.8	279.3	.4	.3	.3	11.0	10.7	11.4
Sharon .....	47.3	48.1	48.5	(1)	(1)	(1)	1.6	1.5	1.7
State College .....	67.7	70.3	69.3	(1)	(1)	(1)	2.4	2.2	2.3
Williamsport .....	53.4	54.4	54.5	(1)	(1)	(1)	2.2	2.4	2.5
York .....	164.1	165.2	165.3	.4	.4	.4	8.3	8.3	8.7

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		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>New York</b> .....	920.5	915.6	917.7	410.5	408.7	412.1	1,632.2	1,629.5	1,656.9
Albany-Schenectady-Troy .....	38.7	38.8	39.0	17.2	17.1	17.2	91.6	91.2	92.7
Binghamton .....	24.9	25.2	25.2	4.9	4.7	4.8	23.7	23.9	24.1
Buffalo-Niagara Falls .....	89.3	89.6	89.8	26.0	25.1	25.6	130.0	127.9	130.1
Dutchess County .....	17.6	18.2	18.3	3.6	3.5	3.5	20.2	20.3	20.6
Elmira .....	9.7	9.7	9.7	1.5	1.5	1.5	10.5	10.2	10.4
Glens Falls .....	8.4	8.5	8.5	1.5	1.5	1.6	11.3	10.8	11.4
Nassau-Suffolk .....	111.7	112.4	112.2	52.6	52.4	54.0	285.3	285.1	289.8
New York PMSA .....	318.2	315.2	317.1	233.4	234.9	236.2	684.6	698.2	707.5
New York City .....	266.1	263.2	264.9	206.8	208.3	209.3	574.8	585.9	592.7
Newburgh .....	11.8	11.7	11.9	6.6	6.8	6.8	32.6	32.2	33.2
Rochester .....	127.1	123.3	122.4	16.7	16.3	16.9	112.4	109.6	112.7
Rockland County .....	12.1	12.3	12.3	6.3	6.4	6.4	21.9	24.2	25.1
Syracuse .....	49.3	49.4	49.6	19.4	19.8	19.8	78.4	77.6	79.2
Utica-Rome .....	19.3	19.3	19.2	3.9	3.5	3.6	26.9	25.6	26.8
Westchester County .....	38.2	37.8	38.0	19.6	19.5	19.8	83.7	83.9	85.4
<b>North Carolina</b> .....	831.5	827.1	826.5	170.7	169.4	169.4	840.7	840.4	846.4
Asheville .....	19.9	19.6	19.5	4.5	4.6	4.6	27.1	27.1	27.5
Charlotte-Gastonia-Rock Hill .....	144.3	143.4	143.8	54.0	52.8	52.8	183.3	186.6	186.7
Greensboro-Winston-Salem-High Point .....	165.1	164.3	164.6	33.5	31.9	31.9	143.0	142.1	142.5
Raleigh-Durham-Chapel Hill .....	82.9	85.4	85.6	26.7	27.6	27.7	129.4	132.5	132.8
<b>North Dakota</b> .....	23.0	23.7	24.0	18.2	18.3	18.5	80.5	80.3	81.2
Bismarck .....	2.7	2.7	2.9	3.2	3.2	3.2	12.3	12.1	12.4
Fargo-Moorhead .....	8.0	8.2	8.3	5.3	5.4	5.5	27.4	27.4	27.6
Grand Forks .....	3.4	3.6	3.6	2.3	2.4	2.4	11.3	12.9	12.4
<b>Ohio</b> .....	1,091.9	1,093.5	1,091.2	235.1	233.5	235.6	1,311.6	1,304.2	1,322.7
Akron .....	64.3	64.3	63.9	14.6	14.9	15.0	80.0	80.8	81.6
Canton-Massillon .....	46.0	47.1	47.1	5.2	5.3	5.3	45.5	46.5	46.9
Cincinnati .....	140.6	141.8	141.9	44.4	44.4	44.6	216.9	216.5	219.8
Cleveland-Lorain-Elyria .....	224.7	223.6	223.0	45.6	45.4	46.2	269.7	271.7	274.9
Columbus .....	93.0	94.2	94.3	36.4	35.8	36.3	212.5	214.1	215.7
Dayton-Springfield .....	99.7	100.0	99.7	20.6	21.0	21.1	109.7	110.2	111.7
Hamilton-Middletown .....	21.1	20.8	20.8	4.8	4.9	4.9	32.1	31.6	31.3
Lima .....	19.4	19.5	19.6	3.1	3.1	3.2	18.3	18.5	18.6
Mansfield .....	23.1	22.8	22.7	3.6	3.3	3.3	18.3	18.6	18.8
Steubenville-Weirton .....	11.4	13.9	13.9	2.8	2.6	2.6	10.9	10.2	10.4
Toledo .....	61.1	61.3	61.2	14.1	14.7	14.7	78.8	77.2	78.2
Youngstown-Warren .....	59.4	59.2	58.8	10.5	10.6	10.6	62.3	62.6	63.4
<b>Oklahoma</b> .....	177.2	184.3	185.2	78.7	81.3	81.9	324.6	325.9	329.2
Enid .....	2.1	2.4	2.4	2.1	2.1	2.1	6.2	6.2	6.3
Lawton .....	3.7	3.6	3.6	1.7	1.7	1.7	9.2	8.9	8.9
Oklahoma City .....	50.5	55.7	56.1	24.3	25.3	25.4	118.4	119.7	120.0
Tulsa .....	56.3	57.2	57.3	29.1	30.4	30.6	88.0	87.7	88.2
<b>Oregon</b> .....	241.3	242.7	244.3	74.1	75.5	75.3	374.0	381.4	385.3
Eugene-Springfield .....	21.1	21.5	21.7	4.5	4.6	4.7	34.5	34.9	35.5
Medford-Ashland .....	9.1	8.8	9.0	3.3	3.4	3.4	19.2	19.7	20.1
Portland-Vancouver .....	146.8	150.6	151.0	52.1	54.2	54.5	226.4	233.4	235.8
Salem .....	16.9	16.9	16.9	3.5	3.5	3.5	27.8	27.9	28.2
<b>Pennsylvania</b> .....	935.9	934.6	934.3	279.7	280.9	283.1	1,217.5	1,217.4	1,232.3
Allentown Bethlehem-Easton .....	56.4	55.9	55.6	15.4	15.5	15.5	56.3	55.8	56.1
Altoona .....	9.7	9.9	10.0	4.3	4.2	4.2	15.5	16.0	16.3
Erie .....	33.5	34.0	34.2	4.9	4.8	4.9	28.8	28.9	29.3
Harrisburg-Lebanon-Carlisle .....	45.2	45.2	45.3	23.2	23.4	23.7	78.2	79.6	80.2
Johnstown .....	13.1	12.8	12.9	5.3	5.2	5.2	20.6	20.2	20.7
Lancaster .....	57.4	56.7	56.5	8.4	8.6	8.7	53.0	54.2	55.3
Philadelphia PMSA .....	304.9	303.0	302.0	106.8	109.8	109.9	498.5	494.3	501.3
Philadelphia City .....	58.7	57.4	57.3	34.0	34.5	34.8	110.3	109.4	111.3
Pittsburgh .....	138.8	137.2	138.3	66.4	65.3	65.4	256.0	254.0	257.8
Reading .....	44.0	43.2	43.1	8.0	8.1	8.2	38.7	38.8	39.0
Scranton-Wilkes-Barre-Hazleton .....	54.7	53.8	54.4	15.4	15.6	15.7	66.4	65.0	66.2
Sharon .....	10.7	11.0	11.1	2.0	2.0	2.0	12.3	12.4	12.5
State College .....	8.6	8.8	8.9	2.2	2.1	2.1	12.9	13.3	13.5
Williamsport .....	13.4	13.3	13.3	2.0	1.9	1.9	13.0	13.3	13.3
York .....	48.0	47.9	47.5	7.6	7.6	7.6	39.2	40.3	40.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>New York</b> .....	717.6	722.5	725.8	2,701.3	2,769.0	2,789.7	1,399.8	1,388.5	1,393.2
Albany-Schenectady-Troy .....	25.5	25.3	25.5	134.8	137.2	137.2	110.9	110.1	110.6
Binghamton .....	3.7	3.7	3.8	30.3	30.6	31.0	22.4	22.6	22.8
Buffalo-Niagara Falls .....	29.1	29.6	29.6	164.5	162.8	165.1	88.7	86.4	88.0
Dutchess County .....	4.6	4.7	4.7	34.2	34.5	34.9	22.9	23.1	23.0
Elmira .....	1.3	1.3	1.3	10.9	10.9	10.9	7.6	7.6	7.7
Glens Falls .....	2.0	2.1	2.1	14.6	13.6	14.7	10.1	10.2	10.3
Nassau-Suffolk .....	79.3	79.3	80.0	362.5	369.0	373.9	184.0	182.5	183.2
New York PMSA .....	501.2	507.6	509.0	1,450.1	1,502.9	1,507.4	610.5	605.9	606.4
New York City .....	468.6	474.7	475.8	1,270.5	1,320.5	1,322.4	527.1	523.3	522.8
Newburgh .....	5.4	5.5	5.5	31.5	31.2	31.8	27.9	27.5	27.7
Rochester .....	21.4	21.1	21.2	159.1	158.5	160.7	80.7	80.5	80.6
Rockland County .....	5.0	4.9	5.0	31.2	32.0	32.2	19.8	19.5	19.7
Syracuse .....	18.0	17.7	17.9	97.3	98.6	96.3	61.7	61.5	61.4
Utica-Rome .....	7.7	7.6	7.7	38.4	39.8	40.2	28.2	28.1	28.4
Westchester County .....	26.2	26.5	26.6	142.2	144.0	146.3	59.3	58.7	59.4
<b>North Carolina</b> .....	166.2	172.7	173.4	867.8	906.8	914.6	583.9	610.0	610.5
Asheville .....	3.3	3.1	3.1	32.1	32.2	33.6	15.9	16.1	16.0
Charlotte-Gastonia-Rock Hill .....	54.2	54.7	54.8	186.1	189.1	189.9	89.3	94.3	94.5
Greensboro-Winston-Salem-High Point .....	32.7	33.0	32.9	160.4	166.3	166.1	68.4	68.9	69.0
Raleigh-Durham-Chapel Hill .....	29.0	30.4	30.5	189.3	197.7	198.8	120.2	126.2	123.2
<b>North Dakota</b> .....	14.6	15.4	15.4	86.8	89.0	89.9	72.8	72.2	71.9
Bismarck .....	2.3	2.3	2.4	15.8	15.7	15.8	10.4	10.9	10.9
Fargo-Moorhead .....	5.9	6.4	6.5	29.8	30.7	30.9	14.4	15.6	14.8
Grand Forks .....	1.6	1.5	1.6	11.3	12.2	11.9	12.3	13.5	12.8
<b>Ohio</b> .....	287.1	290.8	291.5	1,481.5	1,500.3	1,520.6	777.7	774.9	784.4
Akron .....	12.9	13.1	13.3	91.0	89.9	92.2	49.8	49.9	50.4
Canton-Massillon .....	6.0	6.0	6.1	50.0	51.1	51.6	20.1	19.8	20.1
Cincinnati .....	52.5	54.6	55.1	250.9	259.1	263.8	102.0	105.0	104.9
Cleveland-Lorain-Elyria .....	74.4	75.1	75.0	336.6	348.1	350.7	146.8	146.0	147.9
Columbus .....	71.4	72.9	73.0	229.6	236.8	240.5	137.3	138.6	139.2
Dayton-Springfield .....	18.0	18.0	17.9	136.6	139.1	137.5	73.2	70.8	72.0
Hamilton-Middletown .....	6.4	6.4	6.5	26.9	26.9	27.4	20.9	21.4	21.4
Lima .....	2.0	2.1	2.1	20.7	20.8	21.0	10.5	10.6	10.7
Mansfield .....	2.9	2.5	2.5	19.3	18.8	19.0	10.7	10.3	10.7
Stuebenville-Weirton .....	1.4	1.4	1.4	13.8	14.1	14.3	6.5	6.6	6.7
Toledo .....	10.8	11.2	11.1	90.3	89.8	90.0	48.6	48.6	49.1
Youngstown-Warren .....	9.5	9.4	9.5	64.3	64.5	65.4	32.3	32.8	33.5
<b>Oklahoma</b> .....	69.3	70.8	71.1	380.1	389.5	394.7	281.2	284.1	285.2
Enid .....	1.0	1.0	1.0	6.9	7.3	7.3	4.1	4.2	4.1
Lawton .....	1.7	1.7	1.7	8.3	8.3	8.4	11.8	11.9	12.1
Oklahoma City .....	29.1	29.8	30.0	146.7	148.2	149.3	104.1	104.0	104.5
Tulsa .....	19.9	20.8	20.7	113.8	120.6	122.2	42.8	42.8	42.8
<b>Oregon</b> .....	95.0	96.2	97.0	401.6	415.1	416.4	257.7	261.7	266.2
Eugene-Springfield .....	7.3	7.5	7.5	37.0	37.8	38.0	26.5	25.8	25.9
Medford-Ashland .....	3.1	3.1	3.2	18.5	19.7	19.7	10.8	11.0	11.1
Portland-Vancouver .....	66.9	66.9	66.9	251.7	261.8	263.2	117.9	121.1	122.3
Salem .....	6.7	6.6	6.6	31.0	31.8	31.7	37.3	37.5	37.7
<b>Pennsylvania</b> .....	312.4	317.7	319.5	1,710.9	1,745.5	1,749.9	732.0	727.6	725.1
Allentown Bethlehem-Easton .....	13.2	13.2	13.3	83.9	84.5	85.1	31.4	31.6	31.9
Altoona .....	1.9	1.9	1.9	15.8	16.0	16.4	8.1	8.3	7.9
Erie .....	5.5	5.5	5.5	35.8	36.1	36.2	15.6	16.4	16.0
Harrisburg-Lebanon-Carlisle .....	25.9	25.8	26.0	95.5	100.1	102.1	72.9	68.2	68.5
Johnstown .....	4.2	4.1	4.1	26.5	27.3	27.6	14.3	14.2	14.2
Lancaster .....	9.2	9.7	9.7	54.5	56.0	56.0	19.1	19.3	19.3
Philadelphia PMSA .....	156.7	159.1	159.9	806.9	821.2	818.9	301.2	300.6	300.9
Philadelphia City .....	53.0	54.1	54.4	278.6	289.4	283.8	120.8	121.7	120.3
Pittsburgh .....	61.7	61.9	62.1	372.0	372.4	372.4	128.8	127.7	128.2
Reading .....	8.6	8.7	8.8	40.2	40.5	40.9	19.3	20.0	20.2
Scranton-Wilkes-Barre-Hazleton .....	13.9	14.3	14.3	79.6	81.8	82.1	35.0	35.3	34.9
Sharon .....	1.5	1.6	1.6	13.5	14.0	13.9	5.7	5.6	5.7
State College .....	2.0	2.0	2.0	13.9	14.3	14.3	25.7	27.6	26.2
Williamsport .....	2.2	2.2	2.2	14.2	15.1	15.0	6.4	6.2	6.3
York .....	5.0	5.1	5.2	39.0	39.1	38.8	16.6	16.5	16.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Rhode Island</b> .....	453.0	451.9	458.6	2	2	.2	14.8	16.1	17.2
Providence-Fall River-Warwick .....	507.8	507.6	511.9	.2	.2	.2	16.4	18.3	19.4
<b>South Carolina</b> .....	1,729.6	1,786.5	1,800.7	1.9	1.9	1.9	99.2	107.6	109.0
Charleston-North Charleston .....	222.9	231.1	234.5	(1)	(1)	(1)	15.9	17.5	17.8
Columbia .....	282.0	289.7	291.5	(1)	(1)	(1)	15.4	16.0	16.3
Greenville-Spartanburg-Anderson .....	459.2	471.5	473.5	(1)	(1)	(1)	30.0	30.9	31.2
<b>South Dakota</b> .....	359.8	355.3	363.0	2.3	1.7	1.7	15.7	15.1	16.5
Rapid City .....	47.1	45.4	46.8	(1)	(1)	(1)	3.2	3.0	3.1
Sioux Falls .....	103.0	105.6	107.5	(1)	(1)	(1)	5.0	4.6	5.4
<b>Tennessee</b> .....	2,590.1	2,623.5	2,628.1	4.6	4.5	4.5	117.3	119.0	121.6
Chattanooga .....	221.4	223.1	221.6	(1)	(1)	(1)	9.9	10.4	10.4
Johnson City-Kingsport-Bristol .....	201.4	202.0	201.9	(1)	(1)	(1)	11.2	11.5	11.6
Knoxville .....	320.1	318.9	321.3	.6	.6	.6	15.7	15.4	15.5
Memphis .....	557.2	560.8	560.4	(1)	(1)	(1)	24.1	24.4	24.7
Nashville .....	629.5	639.4	641.1	(1)	(1)	(1)	31.2	33.1	33.8
<b>Texas</b> .....	8,595.1	8,840.3	8,888.2	164.1	167.3	167.4	458.5	475.7	483.4
Abilene .....	55.3	56.6	56.8	1.6	1.6	1.6	2.2	2.3	2.4
Amarillo .....	93.2	95.4	95.7	.7	.6	.6	4.9	5.0	5.0
Austin-San Marcos .....	563.0	587.2	587.4	1.2	1.2	1.2	29.3	32.5	33.1
Beaumont-Port Arthur .....	156.8	160.2	160.8	.7	.8	.8	14.7	15.8	15.8
Brazoria .....	73.6	75.0	74.9	1.4	1.3	1.3	9.1	8.7	8.5
Brownsville-Harlingen-San Benito .....	97.1	100.2	100.5	(1)	(1)	(1)	3.5	3.4	3.5
Bryan-College Station .....	68.7	70.7	70.6	.8	.8	.9	3.0	3.2	3.2
Corpus Christi .....	154.0	157.0	157.4	2.4	2.5	2.5	12.1	11.2	10.9
Dallas .....	1,751.7	1,821.0	1,831.1	11.6	11.6	11.6	82.5	84.5	85.4
El Paso .....	243.3	248.4	250.8	(1)	(1)	(1)	12.0	12.5	12.7
Ft. Worth-Arlington .....	705.4	725.9	730.8	4.2	4.2	4.3	35.1	35.6	36.4
Galveston-Texas City .....	88.1	89.6	90.3	.7	.7	.7	4.6	4.1	4.1
Houston .....	1,884.6	1,956.5	1,965.8	66.8	68.9	69.8	125.1	132.9	134.7
Killeen-Temple .....	97.5	99.9	100.6	(1)	(1)	(1)	4.2	4.1	4.3
Laredo .....	60.0	61.9	62.3	3.3	2.3	2.0	2.1	2.3	2.4
Longview-Marshall .....	88.2	89.5	89.9	3.3	3.3	3.3	4.4	4.4	4.6
Lubbock .....	112.8	116.5	116.8	.1	.1	.1	4.3	4.6	4.7
McAllen-Edinburg-Mission .....	134.4	143.5	143.0	1.1	1.2	1.3	7.1	7.4	7.4
Odessa Midland .....	103.6	106.4	107.3	13.0	13.3	13.1	5.4	6.3	6.8
San Angelo .....	43.7	43.5	43.4	.6	.7	.7	1.9	1.8	1.8
San Antonio .....	663.8	684.0	688.1	1.9	2.0	2.0	34.3	36.1	36.6
Sherman-Denison .....	43.8	44.2	44.5	(1)	(1)	(1)	2.1	2.2	2.2
Texarkana .....	51.2	51.7	52.0	(1)	(1)	(1)	2.1	2.1	2.2
Tyler .....	77.0	78.6	79.4	1.5	1.6	1.5	2.8	3.0	3.1
Victoria .....	35.5	36.3	36.7	1.6	1.8	1.8	2.4	2.5	2.5
Waco .....	94.3	97.6	96.6	(1)	(1)	(1)	4.5	4.7	4.8
Wichita Falls .....	60.0	60.6	60.7	1.2	1.1	1.1	2.4	2.3	2.4
<b>Utah</b> .....	992.2	1,020.5	1,025.7	8.4	8.2	8.2	65.4	65.5	68.5
Provo-Orem .....	132.2	139.0	136.0	(1)	(1)	(1)	9.3	8.6	9.0
Salt Lake City-Ogden .....	668.7	686.5	692.3	3.0	2.9	2.8	43.9	44.3	46.2
<b>Vermont</b> .....	276.7	279.2	280.2	.6	.5	.6	12.9	11.2	12.8
Barre-Montpelier .....	29.9	30.8	31.0	(1)	(1)	(1)	1.4	1.3	1.4
Burlington .....	98.6	100.0	100.5	(1)	(1)	(1)	4.7	4.4	4.5
<b>Virginia</b> .....	3,227.4	3,305.4	3,325.0	11.3	11.0	11.0	186.2	190.9	195.5
Bristol .....	37.7	36.7	36.7	(1)	(1)	(1)	1.8	1.4	1.4
Charlottesville .....	79.6	82.3	82.6	(1)	(1)	(1)	4.5	4.3	4.5
Danville .....	45.1	46.1	46.2	(1)	(1)	(1)	2.3	2.3	2.3
Lynchburg .....	96.6	97.4	97.2	(1)	(1)	(1)	5.9	5.8	5.8
Norfolk-Virginia Beach-Newport News .....	667.4	670.5	676.2	(1)	(1)	(1)	40.5	39.3	39.8
Northern Virginia .....	997.9	1,027.1	1,038.8	.7	.7	.7	55.5	57.1	58.4
Richmond-Petersburg .....	524.0	539.7	539.6	.7	.7	.7	33.4	34.1	34.5
Roanoke .....	141.3	140.6	141.6	(1)	(1)	(1)	8.3	8.7	8.8
<b>Washington</b> .....	2,518.8	2,565.9	2,594.1	3.5	3.4	3.4	135.6	136.1	140.6
Seattle-Bellevue-Everett .....	1,290.3	1,338.9	1,352.0	.7	.7	.7	65.2	65.3	68.4
Spokane .....	186.8	189.1	190.8	(1)	(1)	(1)	10.7	10.5	11.0
Tacoma .....	230.3	234.7	236.3	.2	.2	.2	12.5	13.4	13.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Rhode Island</b> .....	80.3	78.7	78.9	15.5	15.7	15.8	98.2	96.2	98.3
Providence-Fall River-Warwick .....	102.4	101.7	102.0	17.8	17.8	17.9	115.2	112.3	114.1
<b>South Carolina</b> .....	363.6	363.2	363.8	75.3	76.8	77.4	413.8	434.8	441.1
Charleston-North Charleston .....	21.5	21.7	21.9	12.1	12.9	13.1	55.7	56.0	57.1
Columbia .....	25.5	26.2	26.4	13.0	12.8	12.9	64.9	67.0	67.6
Greenville-Spartanburg-Anderson .....	122.8	123.8	123.9	20.4	20.8	20.9	116.0	120.0	121.2
<b>South Dakota</b> .....	49.6	48.8	48.9	16.5	16.0	16.1	89.4	86.8	89.8
Rapid City .....	4.4	4.5	4.5	2.0	1.8	1.9	14.0	13.4	13.9
Sioux Falls .....	13.8	14.4	14.4	6.6	6.4	6.4	26.2	26.3	26.8
<b>Tennessee</b> .....	517.5	517.6	517.1	150.6	152.2	151.1	607.0	617.3	618.4
Chattanooga .....	42.9	42.5	41.6	11.8	12.0	12.1	53.0	52.9	53.0
Johnson City-Kingsport-Bristol .....	52.4	51.0	50.7	7.9	7.5	7.5	45.3	45.5	45.6
Knoxville .....	48.4	49.4	49.2	14.7	14.4	14.4	84.2	83.7	84.3
Memphis .....	63.8	63.2	63.3	60.7	62.8	62.8	140.7	140.6	141.1
Nashville .....	96.7	97.3	95.6	31.1	31.5	31.6	150.5	154.3	155.3
<b>Texas</b> .....	1,078.2	1,093.3	1,096.7	511.2	534.8	537.9	2,037.0	2,079.6	2,092.7
Abilene .....	3.2	3.2	3.3	2.4	2.4	2.4	14.5	14.7	14.8
Amarillo .....	9.2	9.4	9.4	5.6	5.6	5.6	25.9	26.4	26.5
Austin-San Marcos .....	74.9	78.1	78.2	18.7	19.5	19.6	120.3	124.3	125.0
Beaumont-Port Arthur .....	24.6	24.8	25.2	8.3	7.9	7.9	35.7	36.3	36.5
Brazoria .....	16.6	16.7	16.8	2.7	2.8	2.8	14.5	14.9	15.0
Brownsville-Harlingen-San Benito .....	12.2	12.0	12.1	4.4	4.5	4.6	23.4	24.5	24.3
Bryan-College Station .....	4.0	4.4	4.4	1.4	1.5	1.5	14.5	14.8	14.7
Corpus Christi .....	13.2	13.3	13.3	6.4	6.4	6.5	35.7	36.2	36.4
Dallas .....	244.9	248.2	249.7	119.2	127.1	127.6	426.7	436.6	439.8
El Paso .....	43.4	40.6	40.9	13.2	14.0	14.2	57.7	58.6	59.1
Ft. Worth-Arlington .....	109.6	110.4	110.3	63.9	67.7	68.0	177.9	184.8	186.7
Galveston-Texas City .....	8.0	8.0	8.0	4.2	4.4	4.3	19.5	19.8	20.2
Houston .....	207.5	215.5	215.4	131.8	138.1	138.3	430.9	445.4	448.7
Killeen-Temple .....	9.2	9.3	9.3	3.5	3.6	3.6	22.8	23.3	23.6
Laredo .....	1.4	1.5	1.5	10.0	10.9	11.1	16.0	16.6	17.0
Longview-Marshall .....	18.6	19.1	19.1	4.0	4.1	4.1	22.1	22.7	22.8
Lubbock .....	7.5	7.9	7.9	5.6	5.5	5.6	31.5	32.3	32.5
McAllen-Edinburg-Mission .....	13.2	13.2	13.3	4.8	4.9	4.9	36.8	40.3	40.0
Odessa Midland .....	7.5	7.5	7.5	4.3	4.2	4.1	27.5	27.3	27.6
San Angelo .....	5.3	4.7	4.7	2.4	2.3	2.3	10.2	10.2	10.3
San Antonio .....	50.0	49.8	50.4	30.5	30.8	30.8	160.1	163.8	165.0
Sherman-Denison .....	10.5	10.5	10.5	1.6	1.6	1.6	9.7	9.7	9.8
Texarkana .....	6.0	5.9	5.9	2.2	2.3	2.3	13.3	13.4	13.5
Tyler .....	11.3	10.9	10.9	3.7	3.9	4.0	19.4	19.9	20.2
Victoria .....	3.3	3.3	3.3	1.5	1.5	1.5	9.3	9.5	9.6
Waco .....	16.5	16.4	16.3	3.7	4.0	4.0	21.9	22.4	22.6
Wichita Falls .....	8.3	8.4	8.4	3.1	2.9	2.9	13.8	13.6	13.6
<b>Utah</b> .....	132.5	134.6	134.5	55.8	57.7	57.8	236.9	240.7	243.4
Provo-Orem .....	19.4	20.4	20.5	2.3	2.3	2.3	30.4	30.5	30.8
Salt Lake City-Ogden .....	81.6	83.0	83.1	43.7	46.1	46.2	161.4	164.2	165.5
<b>Vermont</b> .....	46.4	47.4	47.6	12.2	12.4	12.5	64.3	64.0	65.1
Barre-Montpelier .....	3.3	3.5	3.5	1.1	1.1	1.1	6.6	6.9	6.8
Burlington .....	17.9	18.5	18.7	4.7	4.5	4.7	22.3	21.8	22.0
<b>Virginia</b> .....	402.9	405.7	404.2	166.5	171.5	171.8	719.9	728.0	736.0
Bristol .....	9.9	8.9	8.9	1.3	1.3	1.3	10.1	10.3	10.3
Charlottesville .....	7.9	8.2	8.2	2.4	2.3	2.3	16.5	16.6	16.7
Danville .....	15.2	15.2	15.1	1.0	1.0	1.0	9.7	9.9	10.0
Lynchburg .....	25.5	25.2	25.2	3.6	3.5	3.6	20.3	20.0	20.0
Norfolk-Virginia Beach-Newport News .....	68.5	69.2	69.1	32.1	32.6	32.7	155.5	154.5	156.7
Northern Virginia .....	42.6	44.8	44.9	59.8	60.7	61.3	214.3	214.1	217.1
Richmond-Petersburg .....	60.8	61.5	61.2	26.9	28.0	28.1	123.2	127.0	127.7
Roanoke .....	19.2	19.0	19.1	8.7	8.5	8.6	36.3	35.9	35.9
<b>Washington</b> .....	366.7	374.8	377.5	133.9	135.8	136.8	604.9	612.2	622.2
Seattle-Bellevue-Everett .....	215.7	226.2	226.5	77.8	80.5	80.9	302.5	308.0	313.8
Spokane .....	22.7	22.7	22.7	7.8	7.9	7.9	46.8	47.6	48.1
Tacoma .....	25.4	25.3	25.4	10.0	10.1	10.3	56.8	59.6	60.2

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		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>Rhode Island</b> .....	26.5	27.0	27.6	152.9	151.6	153.7	64.6	66.4	66.9
Providence-Fall River-Warwick .....	28.4	28.7	29.1	161.6	161.8	161.9	65.8	66.8	67.3
<b>South Carolina</b> .....	74.8	77.5	78.4	397.4	416.2	420.9	303.6	308.5	308.2
Charleston-North Charleston .....	8.4	8.5	8.5	60.1	64.3	65.3	49.2	50.2	50.8
Columbia .....	20.1	20.5	20.6	69.6	71.0	71.6	73.5	76.2	76.1
Greenville-Spartanburg-Anderson .....	15.5	15.7	15.8	97.6	100.9	101.4	56.9	59.4	59.1
<b>South Dakota</b> .....	20.8	21.8	22.0	93.1	93.5	95.7	72.4	71.6	72.3
Rapid City .....	1.8	1.7	1.8	14.3	13.5	14.0	7.4	7.5	7.6
Sioux Falls .....	11.3	12.3	12.4	30.2	31.4	31.6	9.9	10.2	10.5
<b>Tennessee</b> .....	120.1	122.7	123.1	687.2	696.5	700.9	385.8	393.7	391.4
Chattanooga .....	15.4	15.4	15.5	55.0	55.7	55.5	33.4	34.2	33.5
Johnson City-Kingsport-Bristol .....	6.1	6.1	6.2	49.4	51.0	50.9	29.1	29.4	29.4
Knoxville .....	13.7	14.0	14.1	87.7	86.9	88.8	55.1	54.5	54.4
Memphis .....	27.9	27.8	27.9	160.1	160.3	160.5	79.9	81.7	80.1
Nashville .....	38.9	39.3	39.5	199.0	199.0	200.6	82.1	84.9	84.7
<b>Texas</b> .....	462.4	476.8	479.2	2,384.4	2,487.3	2,506.3	1,499.3	1,525.5	1,524.6
Arlene .....	2.4	2.5	2.5	19.0	19.8	19.6	10.0	10.1	10.2
Amarillo .....	4.7	5.0	5.0	25.3	26.2	26.5	16.9	17.2	17.1
Austin-San Marcos .....	29.7	30.3	30.4	160.0	169.9	170.1	128.9	131.4	129.8
Beaumont-Port Arthur .....	5.1	5.3	5.3	41.1	42.4	42.4	26.6	26.9	26.9
Brazoria .....	1.8	1.8	1.8	13.7	13.9	13.9	13.8	14.9	14.8
Brownsville-Harlingen-San Benito .....	3.6	3.7	3.7	27.3	28.7	28.8	22.7	23.4	23.5
Bryan-College Station .....	2.4	2.3	2.3	14.9	15.4	15.3	27.7	28.3	28.3
Corpus Christi .....	6.6	6.6	6.6	46.8	49.5	49.7	30.8	31.3	31.5
Dallas .....	137.7	144.1	144.6	531.2	565.0	568.4	197.9	203.9	204.0
El Paso .....	9.5	10.1	10.2	54.6	57.3	58.3	52.9	55.3	55.4
Ft. Worth-Arlington .....	31.4	32.7	32.9	191.5	197.9	199.5	91.8	92.6	92.7
Galveston-Texas City .....	5.4	5.5	5.5	18.7	19.3	19.5	27.0	27.8	28.0
Houston .....	99.7	103.2	103.5	568.0	596.3	599.4	254.8	256.2	256.0
Killeen-Temple .....	4.0	4.1	4.2	26.6	27.8	27.9	27.2	27.7	27.7
Laredo .....	2.3	2.4	2.4	10.7	11.3	11.4	14.2	14.6	14.5
Longview-Marshall .....	3.2	3.2	3.2	20.7	21.0	21.0	11.9	11.7	11.8
Lubbock .....	5.5	5.7	5.7	33.2	35.1	35.1	25.1	25.3	25.2
McAllen-Edinburg-Mission .....	4.9	5.1	5.0	30.3	32.3	32.2	36.2	39.1	38.9
Odessa Midland .....	3.6	3.6	3.6	24.4	25.3	25.7	17.9	18.9	18.9
San Angelo .....	1.7	1.6	1.6	12.8	13.2	13.1	8.8	9.0	8.9
San Antonio .....	43.6	44.7	44.8	207.9	220.8	222.8	135.5	136.0	135.7
Sherman-Denison .....	2.1	2.1	2.1	12.0	12.4	12.6	5.8	5.7	5.7
Texarkana .....	1.7	1.7	1.7	13.9	14.6	14.7	12.0	11.7	11.7
Tyler .....	4.0	4.1	4.1	23.1	24.1	24.4	11.2	11.1	11.2
Victoria .....	1.7	1.4	1.4	9.5	9.8	10.0	6.2	6.5	6.6
Waco .....	5.7	5.7	5.7	27.1	29.1	28.0	14.9	15.3	15.2
Wichita Falls .....	2.1	2.3	2.2	16.3	16.9	17.0	12.8	13.1	13.1
<b>Utah</b> .....	52.4	53.6	53.7	263.7	278.1	276.4	177.1	182.1	183.2
Provo-Orem .....	3.9	4.2	4.2	47.9	53.1	49.6	19.0	19.9	19.6
Salt Lake City-Ogden .....	43.4	43.9	44.1	178.0	185.8	187.9	113.7	116.3	116.5
<b>Vermont</b> .....	12.2	12.1	12.2	80.5	83.9	82.5	47.6	47.7	46.9
Barre-Montpelier .....	2.6	2.4	2.4	7.7	8.4	8.3	7.2	7.2	7.5
Burlington .....	4.8	5.1	5.1	28.6	29.5	29.8	15.6	16.2	15.7
<b>Virginia</b> .....	167.5	169.8	170.5	970.4	1,019.3	1,030.7	602.7	609.2	605.3
Bristol .....	1.2	1.3	1.3	7.8	8.0	7.8	5.8	5.5	5.7
Charlottesville .....	4.1	4.1	4.1	19.9	20.2	20.2	24.3	26.6	26.6
Danville .....	1.4	1.4	1.4	9.4	10.2	10.3	6.1	6.1	6.1
Lynchburg .....	4.2	4.2	4.3	24.2	26.1	25.7	12.9	12.6	12.6
Norfolk-Virginia Beach-Newport News .....	30.8	31.7	32.0	196.9	197.6	200.8	143.1	145.6	145.1
Northern Virginia .....	54.9	55.8	56.3	388.2	413.2	419.1	181.9	180.7	181.0
Richmond-Petersburg .....	44.2	44.5	44.5	135.1	145.4	145.9	99.7	98.5	97.0
Roanoke .....	9.4	9.2	9.3	41.2	41.5	41.8	18.2	17.8	18.1
<b>Washington</b> .....	127.6	133.3	134.1	680.4	703.9	711.1	466.2	466.4	468.4
Seattle-Bellevue-Everett .....	76.6	81.4	81.6	371.9	392.6	396.0	179.9	184.2	184.1
Spokane .....	10.8	11.0	11.1	56.3	57.6	57.8	31.7	31.8	32.2
Tacoma .....	12.0	12.1	12.1	65.6	65.4	65.5	47.8	48.6	48.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>West Virginia</b> .....	710.6	713.7	730.7	24.7	23.1	23.2	35.3	34.3	35.0
Charleston .....	130.2	131.5	133.5	1.8	1.8	1.9	6.9	6.5	7.0
Huntington-Ashland .....	120.9	122.4	123.1	1.6	1.2	1.2	5.7	5.8	5.9
Parkersburg-Marietta .....	69.6	69.9	70.3	.3	.3	.3	4.7	3.8	3.8
Wheeling .....	65.4	66.0	67.5	1.6	1.5	1.5	2.4	2.3	2.5
<b>Wisconsin</b> .....	2,656.9	2,687.9	2,717.6	2.8	2.3	2.6	111.7	105.0	114.2
Appleton-Oshkosh-Neenah .....	192.8	197.1	198.9	(1)	(1)	(1)	10.8	10.7	11.2
Eau Claire .....	73.1	74.0	75.0	(1)	(1)	(1)	3.1	2.7	3.3
Green Bay .....	134.5	134.2	135.8	(1)	(1)	(1)	6.7	5.9	6.7
Janesville-Beloit .....	69.4	69.4	70.2	(1)	(1)	(1)	2.8	2.6	2.8
Kenosha .....	51.1	51.6	52.4	(1)	(1)	(1)	2.2	2.1	2.2
La Crosse .....	67.7	69.6	70.0	(1)	(1)	(1)	2.9	2.5	3.0
Madison .....	267.9	273.0	274.4	(1)	(1)	(1)	12.7	12.2	13.2
Milwaukee-Waukesha .....	823.7	839.8	845.0	(1)	(1)	(1)	30.5	29.2	31.1
Racine .....	80.5	82.7	83.6	(1)	(1)	(1)	3.3	3.2	3.6
Sheboygan .....	58.0	58.1	58.8	(1)	(1)	(1)	2.4	2.3	2.5
Wausau .....	64.5	65.1	66.1	(1)	(1)	(1)	2.8	2.7	3.1
<b>Wyoming</b> .....	226.9	217.6	227.0	16.4	16.5	16.8	15.8	13.8	16.1
Casper .....	30.2	29.8	30.6	1.9	1.9	2.0	1.7	1.6	1.7
<b>Puerto Rico</b> .....	980.9	956.3	958.6	1.1	1.1	1.1	55.9	53.8	54.4
Caguas .....	67.0	64.9	64.6	(1)	(1)	(1)	3.0	3.0	3.1
Mayaguez .....	67.3	67.1	67.5	(1)	(1)	(1)	3.8	4.3	4.4
Ponce .....	77.5	75.4	76.5	(1)	(1)	(1)	4.6	4.5	5.3
San Juan-Bayamon .....	611.7	600.8	603.0	.6	.6	.6	38.6	37.7	38.1
<b>Virgin Islands</b> .....	41.5	41.6	41.5	(1)	(1)	(1)	1.9	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		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>West Virginia</b> .....	81.5	82.8	82.8	38.9	38.5	38.7	162.0	162.6	163.7
Charleston .....	9.9	10.3	10.3	9.3	9.1	9.1	31.3	31.5	31.5
Huntington-Ashland .....	17.1	16.6	16.6	6.9	6.6	6.7	31.5	30.9	31.4
Parkersburg-Marietta .....	13.1	13.3	13.1	2.6	2.6	2.6	17.2	17.3	17.3
Wheeling .....	5.9	6.2	6.2	2.8	2.9	2.9	17.0	16.7	17.0
<b>Wisconsin</b> .....	605.4	615.2	616.5	125.7	124.0	126.4	602.9	603.8	615.4
Appleton-Oshkosh-Neenah .....	58.6	58.8	58.9	7.5	7.5	7.6	40.4	42.0	42.9
Eau Claire .....	12.2	13.0	12.9	3.6	3.5	3.5	20.0	19.9	20.2
Green Bay .....	28.3	28.3	28.6	9.8	10.0	10.1	31.4	31.1	31.6
Janesville-Beloit .....	21.2	21.6	21.7	2.6	2.6	2.6	16.0	15.7	16.0
Kenosha .....	11.3	11.6	11.7	1.9	2.2	2.1	12.5	12.0	12.3
La Crosse .....	11.6	12.0	11.8	3.0	2.8	2.9	18.2	18.4	18.3
Madison .....	29.3	30.0	30.0	9.3	9.7	9.8	56.6	56.1	56.4
Milwaukee-Waukesha .....	175.5	178.3	178.4	39.8	40.0	40.3	178.5	179.8	182.0
Racine .....	25.2	26.0	26.1	2.5	2.3	2.4	16.5	16.2	16.7
Sheboygan .....	23.7	23.8	24.0	1.8	1.8	1.8	10.8	10.7	10.9
Wausau .....	18.4	18.4	18.7	3.5	3.5	3.6	15.6	16.1	16.3
<b>Wyoming</b> .....	10.5	10.7	10.7	13.8	13.7	13.9	52.5	50.2	52.0
Casper .....	1.5	1.5	1.5	1.6	1.6	1.6	8.4	8.2	8.4
<b>Puerto Rico</b> .....	149.6	144.2	143.5	26.2	25.9	25.7	197.0	193.6	196.1
Caguas .....	15.9	15.3	15.2	.7	.7	.7	14.6	14.8	14.9
Mayaguez .....	16.1	17.5	17.4	.7	.6	.6	12.1	11.4	11.6
Ponce .....	10.7	9.6	9.7	2.5	2.4	2.5	13.1	13.1	13.5
San Juan-Bayamon .....	69.6	65.3	65.0	19.6	20.3	20.3	130.1	127.7	129.3
<b>Virgin Islands</b> .....	2.2	2.4	2.4	2.4	2.4	2.4	9.4	9.1	9.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>West Virginia</b> .....	28.3	28.4	28.5	198.7	203.5	205.2	141.2	140.5	153.6
Charleston .....	7.5	7.8	7.8	39.6	40.7	40.5	23.9	23.8	25.4
Huntington-Ashland .....	3.8	3.9	3.9	33.0	35.6	35.6	21.3	21.8	21.8
Parkersburg-Marietta .....	2.6	2.6	2.6	18.2	19.3	19.3	10.9	10.7	11.3
Wheeling .....	2.8	3.0	2.9	22.7	23.2	23.5	10.2	10.2	11.0
<b>Wisconsin</b> .....	139.6	142.4	143.1	674.0	691.8	699.0	394.7	403.5	400.4
Appleton-Oshkosh-Neenah .....	9.4	9.9	9.9	43.3	45.1	45.5	22.8	23.1	22.9
Eau Claire .....	2.5	2.5	2.6	19.6	19.9	20.0	12.1	12.4	12.5
Green Bay .....	9.4	9.4	9.4	32.7	33.1	33.3	16.1	16.2	16.2
Janesville-Beloit .....	1.8	1.9	1.9	16.4	16.2	16.2	8.6	8.8	8.9
Kenosha .....	1.7	1.8	1.8	13.3	13.6	13.7	8.2	8.3	8.6
La Crosse .....	2.4	2.6	2.6	20.4	20.8	21.0	9.2	10.5	10.5
Madison .....	20.9	21.9	21.9	67.6	69.5	69.9	71.5	73.6	73.1
Milwaukee-Waukesha .....	57.5	58.5	58.7	252.1	261.9	263.2	89.8	92.0	91.3
Racine .....	2.2	2.3	2.3	21.3	23.1	23.1	9.4	9.7	9.6
Sheboygan .....	2.1	2.2	2.2	10.8	10.8	10.9	6.4	6.5	6.4
Wausau .....	4.7	4.8	4.9	12.0	12.0	12.1	7.5	7.6	7.5
<b>Wyoming</b> .....	8.1	8.2	8.3	49.1	45.7	49.1	60.7	58.8	60.1
Casper .....	1.2	1.2	1.2	8.4	8.4	8.6	5.5	5.4	5.6
<b>Puerto Rico</b> .....	46.3	45.9	46.0	194.9	192.1	192.4	309.9	299.7	299.4
Caguas .....	1.6	1.8	1.8	11.9	12.2	11.7	19.3	17.1	17.2
Mayaguez .....	2.0	2.0	2.0	11.3	10.7	10.9	21.3	20.6	20.6
Ponce .....	2.3	2.4	2.4	16.8	17.1	17.0	27.5	26.3	26.1
San Juan-Bayamon .....	36.4	35.9	35.9	131.6	130.7	131.1	185.2	182.6	182.7
<b>Virgin Islands</b> .....	1.9	1.8	1.8	10.1	10.6	10.5	13.6	13.5	13.5

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

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

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Total private</b> .....		34.5	34.9	34.2	34.6	34.7	-	-	-	-	-
<b>Goods-producing</b> .....		41.4	41.4	40.1	41.2	41.2	-	-	-	-	-
<b>Mining</b> .....		45.8	45.8	43.4	44.1	43.7	-	-	-	-	-
Metal mining .....	10	44.0	44.2	45.7	44.3	-	-	-	-	-	-
Iron ores .....	101	45.3	44.5	44.2	46.0	-	-	-	-	-	-
Copper ores .....	102	45.3	46.2	49.4	45.1	-	-	-	-	-	-
Coal mining .....	12	45.4	45.6	44.2	44.6	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	45.4	45.6	44.1	44.5	-	-	-	-	-	-
Oil and gas extraction .....	13	45.3	45.3	41.7	43.0	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	41.7	42.7	40.6	40.8	-	-	-	-	-	-
Oil and gas field services .....	138	47.3	46.6	42.3	43.9	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	48.7	48.3	46.4	47.1	-	-	-	-	-	-
Crushed and broken stone .....	142	50.7	50.0	48.8	48.9	-	-	-	-	-	-
<b>Construction</b> .....		39.7	39.6	38.0	39.2	39.1	-	-	-	-	-
General building contractors .....	15	38.7	38.6	37.5	38.0	-	-	-	-	-	-
Residential building construction .....	152	37.4	37.3	36.3	36.4	-	-	-	-	-	-
Operative builders .....	153	39.1	39.0	38.9	37.8	-	-	-	-	-	-
Nonresidential building construction .....	154	40.1	39.9	38.7	39.8	-	-	-	-	-	-
Heavy construction, except building .....	16	44.1	43.5	41.2	43.3	-	-	-	-	-	-
Highway and street construction .....	161	45.9	45.5	41.2	44.5	-	-	-	-	-	-
Heavy construction, except highway .....	162	43.3	42.4	41.3	42.8	-	-	-	-	-	-
Special trade contractors .....	17	38.9	39.0	37.5	38.6	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	39.5	39.9	38.6	39.7	-	-	-	-	-	-
Painting and paper hanging .....	172	37.4	37.3	36.0	37.2	-	-	-	-	-	-
Electrical work .....	173	40.1	40.1	39.2	40.2	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	36.5	36.2	35.6	36.2	-	-	-	-	-	-
Carpentry and floor work .....	175	35.4	35.9	35.5	36.5	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	35.5	35.9	33.0	34.4	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.9	42.0	40.8	41.7	41.9	4.7	4.7	4.0	4.5	4.6
<b>Durable goods</b> .....		42.8	42.8	41.3	42.4	42.5	5.0	5.0	4.1	4.8	4.8
Lumber and wood products .....	24	41.3	41.5	40.8	41.3	41.6	4.5	4.5	4.1	4.6	-
Logging .....	241	40.9	41.1	40.7	41.0	-	5.9	5.8	5.1	5.9	-
Sawmills and planing mills .....	242	42.7	42.9	41.9	42.0	-	5.4	5.5	4.7	4.9	-
Sawmills and planing mills, general .....	2421	43.2	43.4	42.3	42.2	-	5.9	6.0	5.1	5.3	-
Hardwood dimension and flooring mills .....	2426	41.2	41.3	40.5	41.2	-	3.6	3.4	3.1	3.5	-
Millwork, plywood, and structural members .....	243	41.6	41.9	41.3	41.9	-	4.4	4.4	4.3	5.0	-
Millwork .....	2431	41.3	41.6	40.5	41.5	-	3.9	3.7	3.2	4.2	-
Wood kitchen cabinets .....	2434	40.4	40.3	41.6	41.5	-	4.1	4.0	5.1	5.4	-
Hardwood veneer and plywood .....	2435	41.9	42.7	41.5	42.6	-	4.7	4.7	4.7	5.4	-
Softwood veneer and plywood .....	2436	45.7	45.5	43.4	43.3	-	6.0	6.3	5.8	5.8	-
Wood containers .....	244	39.0	39.2	37.7	38.6	-	3.4	3.9	2.9	3.7	-
Wood buildings and mobile homes .....	245	39.3	39.7	39.7	40.8	-	2.8	2.8	2.8	3.4	-
Mobile homes .....	2451	39.5	39.7	39.9	41.1	-	2.6	2.6	2.9	3.5	-
Miscellaneous wood products .....	249	41.1	41.2	39.9	40.7	-	3.8	3.7	3.2	3.6	-
Furniture and fixtures .....	25	39.8	39.9	39.7	40.1	40.7	3.1	3.3	3.3	3.2	-
Household furniture .....	251	38.5	38.4	39.3	39.3	-	2.5	2.4	2.9	2.6	-
Wood household furniture .....	2511	38.9	38.8	39.9	40.3	-	2.7	2.5	2.9	2.8	-
Upholstered household furniture .....	2512	36.7	37.4	38.6	37.5	-	1.4	1.7	2.4	1.7	-
Metal household furniture .....	2514	42.1	39.5	38.8	39.9	-	5.3	3.4	4.2	4.1	-
Mattresses and bedsprings .....	2515	39.1	38.4	39.3	39.4	-	3.2	3.2	3.7	3.2	-
Office furniture .....	252	41.5	41.5	39.4	40.1	-	3.7	4.4	3.6	3.4	-
Public building and related furniture .....	253	40.1	41.1	40.1	42.0	-	3.7	4.2	4.1	4.9	-
Partitions and fixtures .....	254	43.2	43.5	41.3	41.9	-	4.7	5.0	3.5	4.1	-
Miscellaneous furniture and fixtures .....	259	39.4	39.5	38.7	40.0	-	3.0	3.2	3.7	4.0	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Total private</b> .....		\$12.18	\$12.18	\$12.69	\$12.69	\$12.65	\$420.21	\$425.08	\$434.00	\$439.07	\$438.96
<b>Goods-producing</b> .....		13.83	13.86	14.23	14.27	14.27	572.56	573.80	570.62	587.92	587.92
<b>Mining</b> .....		16.01	16.14	16.84	16.77	16.78	733.26	739.21	730.86	739.56	733.29
Metal mining .....	10	17.89	17.77	18.26	18.28	—	787.16	785.43	834.48	809.80	—
Iron ores .....	101	18.90	18.42	19.97	19.96	—	856.17	819.69	882.67	918.16	—
Copper ores .....	102	16.44	16.36	16.37	16.10	—	744.73	755.83	808.68	726.11	—
Coal mining .....	12	18.73	18.91	19.11	19.08	—	850.34	862.30	844.66	850.97	—
Bituminous coal and lignite mining .....	122	19.02	19.20	19.39	19.31	—	863.51	875.52	855.10	859.30	—
Oil and gas extraction .....	13	15.49	15.69	16.70	16.58	—	701.70	710.76	696.39	712.94	—
Crude petroleum and natural gas .....	131	20.91	21.22	22.25	22.24	—	871.95	906.09	903.35	907.39	—
Oil and gas field services .....	138	12.95	12.99	13.96	13.87	—	612.54	605.33	590.51	608.89	—
Nonmetallic minerals, except fuels .....	14	14.17	14.20	14.57	14.68	—	690.08	685.86	676.05	691.43	—
Crushed and broken stone .....	142	13.70	13.62	13.94	14.06	—	694.59	681.00	680.27	687.53	—
<b>Construction</b> .....		15.86	15.91	16.34	16.43	16.45	629.64	630.04	620.92	644.06	643.20
General building contractors .....	15	15.05	14.94	15.81	15.76	—	582.44	576.68	592.88	598.88	—
Residential building construction .....	152	14.03	13.86	14.94	14.75	—	524.72	516.98	542.32	536.90	—
Operative builders .....	153	15.04	14.98	14.91	15.00	—	588.06	584.22	580.00	567.00	—
Nonresidential building construction .....	154	16.02	15.98	16.69	16.75	—	642.40	637.60	645.90	666.65	—
Heavy construction, except building .....	16	15.45	15.61	15.68	15.97	—	681.35	679.04	646.02	691.50	—
Highway and street construction .....	161	15.59	15.88	15.37	15.98	—	715.58	722.54	633.24	711.11	—
Heavy construction, except highway .....	162	15.39	15.47	15.80	15.96	—	666.39	655.93	652.54	683.09	—
Special trade contractors .....	17	16.23	16.30	16.68	16.77	—	631.35	635.70	625.50	647.32	—
Plumbing, heating, and air conditioning .....	171	16.65	16.66	17.00	17.08	—	657.68	664.73	656.20	678.08	—
Painting and paper hanging .....	172	14.48	14.60	15.04	15.08	—	541.55	544.58	541.44	560.98	—
Electrical work .....	173	17.64	17.73	18.06	18.25	—	707.36	710.97	707.95	733.65	—
Masonry, stonework, and plastering .....	174	16.13	16.14	16.62	16.75	—	588.75	584.27	591.67	606.35	—
Carpentry and floor work .....	175	15.73	15.90	16.26	16.38	—	556.84	570.81	577.23	597.87	—
Roofing, siding, and sheet metal work .....	176	13.93	14.04	14.40	14.44	—	494.52	504.04	475.20	496.74	—
<b>Manufacturing</b> .....		13.08	13.09	13.46	13.46	13.43	548.05	549.78	549.17	561.28	562.72
<b>Durable goods</b> .....		13.63	13.65	13.96	13.96	13.91	583.36	584.22	576.55	591.90	591.18
Lumber and wood products .....	24	10.72	10.78	10.99	11.06	11.08	442.74	447.37	448.39	456.78	460.93
Logging .....	241	12.18	12.29	12.19	12.36	—	498.16	505.12	496.13	506.76	—
Sawmills and planing mills .....	242	10.79	10.87	11.04	11.06	—	460.73	466.32	462.58	464.52	—
Sawmills and planing mills, general .....	2421	11.19	11.30	11.49	11.51	—	483.41	490.42	486.03	485.72	—
Hardwood dimension and flooring mills .....	2426	9.20	9.16	9.36	9.38	—	379.04	378.31	379.08	386.46	—
Millwork, plywood, and structural members .....	243	10.83	10.88	11.17	11.24	—	450.53	455.87	461.32	470.96	—
Millwork .....	2431	10.89	10.87	11.18	11.29	—	449.76	452.19	452.79	468.54	—
Wood kitchen cabinets .....	2434	10.56	10.76	11.15	11.24	—	426.62	433.63	463.84	466.46	—
Hardwood veneer and plywood .....	2435	9.48	9.44	9.97	9.95	—	397.21	403.09	413.76	423.87	—
Softwood veneer and plywood .....	2436	12.89	13.02	13.36	13.38	—	589.07	592.41	579.82	579.35	—
Wood containers .....	244	8.31	8.35	8.68	8.86	—	324.09	327.32	327.24	342.00	—
Wood buildings and mobile homes .....	245	10.82	10.80	11.27	11.35	—	425.23	428.76	447.42	463.08	—
Mobile homes .....	2451	11.04	11.04	11.43	11.51	—	436.08	438.29	456.06	473.06	—
Miscellaneous wood products .....	249	10.26	10.31	10.37	10.40	—	421.69	424.77	413.76	423.28	—
Furniture and fixtures .....	25	10.47	10.51	10.85	10.78	10.81	416.71	419.35	430.75	432.28	439.97
Household furniture .....	251	9.88	9.92	10.23	10.13	—	380.38	380.93	402.04	398.11	—
Wood household furniture .....	2511	9.46	9.45	9.73	9.74	—	367.99	366.66	388.23	392.52	—
Upholstered household furniture .....	2512	10.53	10.61	11.05	10.80	—	386.45	396.81	426.53	405.00	—
Metal household furniture .....	2514	9.49	9.48	9.77	9.65	—	399.53	374.46	379.08	385.04	—
Mattresses and bedsprings .....	2515	10.65	10.72	10.70	10.56	—	416.42	411.65	420.51	416.06	—
Office furniture .....	252	11.61	11.64	11.86	11.71	—	481.82	483.06	467.28	469.57	—
Public building and related furniture .....	253	11.39	11.47	12.02	11.94	—	456.74	471.42	482.00	501.48	—
Partitions and fixtures .....	254	11.22	11.17	11.64	11.70	—	484.70	485.90	480.73	490.23	—
Miscellaneous furniture and fixtures .....	259	10.31	10.36	11.00	10.95	—	406.21	409.22	425.70	438.00	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	43.7	43.6	42.9	43.9	43.9	6.2	6.1	5.8	6.5	—
Flat glass .....	321	46.2	47.3	43.6	46.4	—	8.2	8.4	8.7	8.5	—
Glass and glassware, pressed or blown .....	322	42.1	42.5	41.7	42.2	—	4.7	4.8	5.2	4.7	—
Glass containers .....	3221	44.1	44.7	45.4	44.5	—	6.3	6.6	7.4	6.6	—
Pressed and blown glass, nec .....	3229	40.8	41.0	39.4	40.7	—	3.6	3.6	3.9	3.5	—
Products of purchased glass .....	323	40.9	41.3	40.9	42.2	—	4.1	4.0	4.0	5.3	—
Cement, hydraulic .....	324	44.7	44.5	46.2	45.2	—	5.0	4.9	6.9	6.0	—
Structural clay products .....	325	42.7	42.6	41.9	41.8	—	5.1	4.9	4.6	4.7	—
Pottery and related products .....	326	40.7	40.5	40.5	40.6	—	4.2	4.4	4.6	4.6	—
Concrete, gypsum, and plaster products .....	327	45.9	45.5	44.6	46.0	—	8.2	8.0	7.4	8.7	—
Concrete block and brick .....	3271	47.1	47.1	46.4	46.7	—	9.3	9.3	8.4	9.1	—
Concrete products, nec .....	3272	43.7	44.2	43.2	44.6	—	6.1	6.5	5.9	7.3	—
Ready-mixed concrete .....	3273	46.7	45.7	44.4	46.4	—	9.2	8.7	7.8	9.4	—
Misc. nonmetallic mineral products .....	329	42.6	42.6	42.2	43.6	—	5.4	5.2	4.4	5.1	—
Abrasive products .....	3291	42.4	43.0	40.5	42.0	—	3.6	3.9	3.0	3.4	—
Asbestos products .....	3292	47.0	46.3	44.3	47.8	—	7.9	7.5	4.8	7.9	—
Primary metal industries .....	33	44.7	44.8	43.4	44.5	44.5	6.5	6.5	5.7	6.3	—
Blast furnaces and basic steel products .....	331	44.7	44.6	44.8	45.4	44.9	6.3	6.3	6.1	6.6	—
Blast furnaces and steel mills .....	3312	45.1	45.0	45.7	45.8	—	6.6	6.6	6.6	6.8	—
Steel pipe and tubes .....	3317	44.3	43.5	41.9	45.3	—	6.2	5.7	4.8	6.7	—
Iron and steel foundries .....	332	45.8	46.2	43.8	45.2	—	6.7	7.1	5.7	6.2	—
Gray and ductile iron foundries .....	3321	46.3	46.9	44.3	46.1	—	7.5	8.0	6.4	7.1	—
Malleable iron foundries .....	3322	50.5	51.5	51.2	50.8	—	10.0	10.3	8.4	7.6	—
Steel foundries, nec .....	3325	43.6	43.9	42.0	42.5	—	4.7	4.9	4.7	4.7	—
Primary nonferrous metals .....	333	44.0	44.1	44.3	43.8	—	5.9	6.0	6.3	5.9	—
Primary aluminum .....	3334	43.5	43.7	45.3	44.8	—	5.7	5.9	7.1	6.4	—
Nonferrous rolling and drawing .....	335	44.8	45.1	42.7	44.2	—	7.4	7.3	6.3	7.4	—
Copper rolling and drawing .....	3351	44.0	43.7	41.4	43.7	—	6.9	7.0	6.0	7.7	—
Aluminum sheet, plate, and foil .....	3353	46.9	46.5	43.6	44.0	—	8.2	8.5	10.3	10.0	—
Nonferrous wire drawing and insulating .....	3357	44.5	45.5	42.4	43.8	—	7.3	7.1	5.6	6.7	—
Nonferrous foundries (castings) .....	336	43.8	43.4	40.8	42.2	—	5.1	5.0	3.6	4.5	—
Aluminum foundries .....	3365	43.5	43.3	40.5	42.1	—	5.4	5.2	3.8	4.9	—
Fabricated metal products .....	34	42.5	42.6	40.9	42.2	42.4	4.9	4.9	3.8	4.6	—
Metal cans and shipping containers .....	341	43.0	43.6	42.4	44.6	—	6.2	6.7	5.7	6.9	—
Metal cans .....	3411	43.2	43.7	42.6	44.4	—	6.1	6.5	5.7	6.3	—
Cutlery, handtools, and hardware .....	342	42.0	42.3	40.6	42.3	—	4.0	4.3	3.1	4.3	—
Hand and edge tools, and blades and handsaws .....	3423,5	41.9	42.1	41.7	42.8	—	3.9	4.2	3.4	4.7	—
Hardware, nec .....	3429	42.0	42.4	40.4	42.7	—	4.1	4.4	3.1	4.4	—
Plumbing and heating, except electric .....	343	41.8	41.5	39.6	40.9	—	3.9	4.0	3.1	3.3	—
Plumbing fixture fittings and trim .....	3432	41.6	40.9	38.7	40.2	—	3.5	3.4	3.5	3.4	—
Heating equipment, except electric .....	3433	40.3	41.0	39.4	40.0	—	2.6	3.5	2.3	2.8	—
Fabricated structural metal products .....	344	41.8	42.1	41.0	42.3	—	4.5	4.6	3.6	4.7	—
Fabricated structural metal .....	3441	42.4	42.7	41.8	43.2	—	5.6	5.4	4.7	5.9	—
Metal doors, sash, and trim .....	3442	41.0	41.2	40.4	42.1	—	3.6	3.7	2.7	3.5	—
Fabricated plate work (boiler shops) .....	3443	42.6	43.0	41.9	43.0	—	5.2	5.2	4.1	5.0	—
Sheet metal work .....	3444	41.3	41.5	40.4	41.2	—	3.7	4.0	3.4	4.1	—
Architectural metal work .....	3446	41.8	41.2	41.1	42.4	—	4.1	4.1	3.7	4.8	—
Screw machine products, bolts, etc .....	345	43.9	43.7	42.5	43.7	—	5.9	5.5	5.0	5.7	—
Screw machine products .....	3451	42.8	42.6	41.9	42.1	—	5.1	4.9	4.7	4.8	—
Bolts, nuts, rivets, and washers .....	3452	45.3	44.9	43.2	45.6	—	6.8	6.2	5.3	6.7	—
Metal forgings and stampings .....	346	44.0	44.1	40.6	41.5	—	5.9	6.0	3.9	4.4	—
Iron and steel forgings .....	3462	44.8	44.3	42.2	44.5	—	6.7	6.6	5.2	6.6	—
Automotive stampings .....	3465	45.0	45.3	40.3	40.2	—	6.4	6.6	3.5	3.4	—
Metal stampings, nec .....	3469	42.2	42.0	40.2	41.6	—	4.7	4.6	3.5	4.4	—
Metal services, nec .....	347	41.7	41.9	40.4	42.0	—	4.9	4.9	4.0	4.9	—
Plating and polishing .....	3471	41.1	41.2	39.9	41.2	—	4.7	4.7	3.9	4.6	—
Metal coating and allied services .....	3479	42.7	43.0	41.2	43.2	—	5.1	5.3	4.2	5.4	—
Ordnance and accessories, nec .....	348	39.8	40.4	40.0	40.1	—	2.8	3.1	3.0	3.2	—
Ammunition, except for small arms, nec .....	3483	40.3	41.0	42.1	41.9	—	2.4	2.9	3.4	3.1	—
Misc. fabricated metal products .....	349	42.6	42.5	41.1	42.3	—	4.6	4.5	3.5	4.2	—
Valves and pipe fittings, nec .....	3494	42.1	41.8	40.8	42.4	—	4.1	4.6	3.3	4.6	—
Misc. fabricated wire products .....	3496	41.1	41.3	40.0	41.0	—	3.6	3.9	3.0	3.7	—

See footnotes at end of table.

ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$13.12	\$13.13	\$13.63	\$13.56	\$13.59	\$573.34	\$572.47	\$584.73	\$595.28	\$596.60
Flat glass .....	321	18.46	18.49	20.03	18.20	—	852.85	874.58	873.31	844.48	—
Glass and glassware, pressed or blown .....	322	14.88	15.01	15.60	15.46	—	626.45	637.93	650.52	652.41	—
Glass containers .....	3221	15.58	15.63	16.50	16.27	—	687.08	698.66	749.10	724.02	—
Pressed and blown glass, nec .....	3229	14.37	14.56	14.96	14.89	—	586.30	596.96	599.42	606.02	—
Products of purchased glass .....	323	11.86	11.77	12.13	12.15	—	485.07	486.10	496.12	512.73	—
Cement, hydraulic .....	324	17.12	16.98	18.79	18.24	—	765.26	755.61	868.10	824.45	—
Structural clay products .....	325	11.56	11.48	11.75	11.84	—	493.61	489.05	492.33	494.91	—
Pottery and related products .....	326	11.42	11.44	12.03	11.98	—	464.79	463.32	487.22	486.39	—
Concrete, gypsum, and plaster products .....	327	12.58	12.61	12.96	13.12	—	577.42	573.76	578.02	603.52	—
Concrete block and brick .....	3271	12.25	12.36	12.44	12.56	—	576.98	582.16	577.22	586.55	—
Concrete products, nec .....	3272	11.13	11.16	11.55	11.66	—	486.38	493.27	498.96	520.04	—
Ready-mixed concrete .....	3273	13.35	13.38	13.80	13.97	—	623.45	611.47	612.72	648.21	—
Misc. nonmetallic mineral products .....	329	13.58	13.54	13.96	13.70	—	578.51	576.80	589.11	597.32	—
Abrasive products .....	3291	11.79	11.85	12.38	12.21	—	499.90	509.55	501.39	512.82	—
Asbestos products .....	3292	15.79	15.67	15.47	15.70	—	742.13	725.52	685.32	750.46	—
Primary metal industries .....	33	15.09	15.16	15.66	15.53	15.51	674.52	679.17	679.64	691.09	690.20
Blast furnaces and basic steel products .....	331	17.87	18.03	18.66	18.55	18.60	798.79	804.14	835.97	842.17	835.14
Blast furnaces and steel mills .....	3312	19.36	19.66	20.33	20.25	—	873.14	884.70	929.08	927.45	—
Steel pipe and tubes .....	3317	14.28	14.13	14.25	14.41	—	632.60	614.66	597.08	652.77	—
Iron and steel foundries .....	332	13.64	13.59	14.11	13.95	—	624.71	627.86	618.02	630.54	—
Gray and ductile iron foundries .....	3321	14.41	14.38	14.97	14.73	—	667.18	674.42	663.17	679.05	—
Malleable iron foundries .....	3322	16.97	16.38	15.94	15.89	—	856.99	843.57	816.13	807.21	—
Steel foundries, nec .....	3325	12.44	12.42	12.99	13.04	—	542.38	545.24	545.58	554.20	—
Primary nonferrous metals .....	333	16.49	16.68	17.27	16.94	—	725.56	735.59	765.06	741.97	—
Primary aluminum .....	3334	16.55	16.74	17.24	16.85	—	719.93	731.54	780.97	754.88	—
Nonferrous rolling and drawing .....	335	14.35	14.39	14.76	14.62	—	642.88	648.99	630.25	646.20	—
Copper rolling and drawing .....	3351	14.34	14.47	15.11	15.02	—	630.96	632.34	625.55	656.37	—
Aluminum sheet, plate, and foil .....	3353	16.47	16.59	17.05	16.82	—	772.44	771.44	743.38	740.08	—
Nonferrous wire drawing and insulating .....	3357	14.39	14.39	14.94	14.88	—	640.36	654.75	633.46	651.74	—
Nonferrous foundries (castings) .....	336	12.05	12.04	12.28	12.31	—	522.79	522.54	501.02	519.48	—
Aluminum foundries .....	3365	11.47	11.55	11.72	11.84	—	498.95	500.12	474.66	498.46	—
Fabricated metal products .....	34	12.74	12.72	12.89	12.85	12.85	541.45	541.87	527.20	542.27	544.84
Metal cans and shipping containers .....	341	16.35	16.31	16.70	16.53	—	703.05	711.12	708.08	737.24	—
Metal cans .....	3411	17.45	17.37	17.74	17.66	—	753.84	759.07	755.72	784.10	—
Cutlery, handtools, and hardware .....	342	12.47	12.43	12.22	12.31	—	523.74	525.79	496.13	520.71	—
Hand and edge tools, and blades and handsaws .....	3423,5	11.94	11.94	12.12	12.12	—	500.29	502.67	505.40	518.74	—
Hardware, nec .....	3429	12.56	12.55	12.46	12.58	—	527.52	532.12	503.38	537.17	—
Plumbing and heating, except electric .....	343	11.52	11.73	11.88	11.84	—	481.54	486.80	470.45	484.26	—
Plumbing fixture fittings and trim .....	3432	11.21	11.37	11.51	11.43	—	466.34	465.03	445.44	459.49	—
Heating equipment, except electric .....	3433	11.54	11.78	11.90	11.90	—	465.06	482.98	468.86	476.00	—
Fabricated structural metal products .....	344	12.02	12.01	12.32	12.40	—	502.44	505.62	505.12	524.52	—
Fabricated structural metal .....	3441	12.03	12.02	12.69	12.67	—	510.07	513.25	530.44	547.34	—
Metal doors, sash, and trim .....	3442	10.29	10.33	10.50	10.49	—	421.89	425.60	424.20	441.63	—
Fabricated plate work (boiler shops) .....	3443	13.41	13.39	13.47	13.60	—	571.27	575.77	564.39	584.80	—
Sheet metal work .....	3444	12.25	12.26	12.65	12.81	—	505.93	508.79	511.06	527.77	—
Architectural metal work .....	3446	11.59	11.48	11.71	11.84	—	484.46	472.98	481.28	502.02	—
Screw machine products, bolts, etc .....	345	12.82	12.79	13.18	13.20	—	562.80	558.92	560.15	576.84	—
Screw machine products .....	3451	12.08	12.10	12.49	12.50	—	517.02	515.46	523.33	526.25	—
Bolts, nuts, rivets, and washers .....	3452	13.64	13.56	13.97	13.96	—	617.89	608.84	603.50	636.58	—
Metal forgings and stampings .....	346	14.94	14.94	14.92	14.52	—	657.36	658.85	605.75	602.58	—
Iron and steel forgings .....	3462	14.25	14.17	14.48	14.65	—	638.40	627.73	611.06	651.93	—
Automotive stampings .....	3465	17.13	17.17	16.87	16.04	—	770.85	777.80	679.86	644.81	—
Metal stampings, nec .....	3469	12.18	12.18	12.55	12.49	—	514.00	511.56	504.51	519.58	—
Metal services, nec .....	347	10.80	10.75	11.03	11.08	—	450.36	450.43	445.61	465.36	—
Plating and polishing .....	3471	10.64	10.61	10.91	11.00	—	437.30	437.13	435.31	453.20	—
Metal coating and allied services .....	3479	11.04	10.95	11.22	11.20	—	471.41	470.85	462.26	483.84	—
Ordnance and accessories, nec .....	348	14.93	15.05	15.44	14.53	—	594.21	608.02	617.60	582.65	—
Ammunition, except for small arms, nec .....	3483	15.68	15.88	16.24	13.84	—	631.90	651.08	683.70	579.90	—
Misc. fabricated metal products .....	349	12.15	12.09	12.33	12.43	—	517.59	513.83	506.76	525.79	—
Valves and pipe fittings, nec .....	3494	12.39	12.23	12.59	12.78	—	521.62	511.21	513.67	541.87	—
Misc. fabricated wire products .....	3496	10.76	10.84	10.93	11.05	—	442.24	447.69	437.20	453.05	—

See footnotes at end of table.



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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	43.5	43.4	41.9	43.1	43.2	5.3	5.3	4.3	5.1	—
Engines and turbines .....	351	43.5	43.3	43.5	45.2	—	5.2	5.2	5.0	6.8	—
Turbines and turbine generator sets .....	3511	41.9	42.4	40.5	43.0	—	4.1	4.5	3.2	4.8	—
Internal combustion engines, nec .....	3519	44.0	43.6	44.5	46.0	—	5.6	5.4	5.6	7.5	—
Farm and garden machinery .....	352	43.4	42.5	41.0	42.3	—	5.3	4.6	3.5	4.1	—
Farm machinery and equipment .....	3523	43.6	43.2	41.4	41.9	—	5.7	5.4	3.9	3.8	—
Construction and related machinery .....	353	44.4	44.9	42.7	44.2	—	6.0	6.1	4.8	6.0	—
Construction machinery .....	3531	44.3	44.4	42.9	44.2	—	5.5	5.5	4.6	5.6	—
Mining machinery .....	3532	42.6	43.0	40.7	41.9	—	4.5	5.0	3.6	4.0	—
Oil and gas field machinery .....	3533	49.0	49.9	45.0	48.2	—	10.0	9.7	7.2	9.5	—
Conveyors and conveying equipment .....	3535	42.9	43.5	41.3	42.5	—	5.5	5.7	3.5	4.7	—
Industrial trucks and tractors .....	3537	41.4	41.4	40.4	41.0	—	3.9	4.0	3.4	3.9	—
Metalworking machinery .....	354	44.2	44.1	42.1	43.0	—	6.2	6.2	5.0	5.5	—
Machine tools, metal cutting types .....	3541	44.1	44.3	42.2	43.0	—	5.8	5.7	4.6	5.1	—
Machine tools, metal forming types .....	3542	44.4	43.8	42.1	43.8	—	5.9	5.4	4.4	5.5	—
Special dies, tools, jigs, and fixtures .....	3544	44.5	44.3	42.3	43.1	—	6.9	6.7	5.5	5.9	—
Machine tool accessories .....	3545	43.5	43.2	41.7	42.6	—	5.0	4.9	4.1	4.7	—
Power driven handtools .....	3546	41.9	41.4	39.7	42.1	—	3.9	3.9	2.5	4.1	—
Special industry machinery .....	355	43.3	43.4	41.7	42.0	—	5.0	5.1	4.0	4.5	—
Textile machinery .....	3552	41.3	42.0	39.6	40.7	—	3.3	3.9	2.5	3.4	—
Printing trades machinery .....	3555	41.3	41.3	40.9	41.6	—	4.0	4.5	4.0	4.6	—
Food products machinery .....	3556	42.0	42.3	42.0	42.3	—	4.3	4.3	4.2	4.7	—
General industrial machinery .....	356	43.2	43.1	41.3	42.9	—	5.0	5.0	3.8	4.9	—
Pumps and pumping equipment .....	3561	42.2	42.3	40.3	41.0	—	4.6	4.6	3.8	4.3	—
Ball and roller bearings .....	3562	44.0	43.4	41.6	44.6	—	6.2	5.8	5.3	6.7	—
Air and gas compressors .....	3563	43.4	43.2	41.5	43.5	—	5.3	4.8	3.7	4.8	—
Blowers and fans .....	3564	43.3	44.1	41.2	42.8	—	4.0	4.7	2.2	3.6	—
Speed changers, drives, and gears .....	3566	44.1	42.8	41.4	43.0	—	6.1	5.6	4.2	5.9	—
Power transmission equipment, nec .....	3568	42.3	42.8	41.2	42.8	—	4.8	5.4	3.5	5.0	—
Computer and office equipment .....	357	42.3	42.3	41.4	41.2	—	3.4	3.5	3.3	3.5	—
Electronic computers .....	3571	42.0	41.9	42.1	41.7	—	2.4	2.5	3.9	3.7	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	42.4	43.0	40.6	40.9	—	4.7	5.3	2.9	3.9	—
Refrigeration and service machinery .....	358	43.7	43.5	42.1	45.2	—	4.9	4.9	3.6	5.3	—
Refrigeration and heating equipment .....	3585	44.0	43.8	42.5	46.2	—	5.2	5.3	3.8	5.9	—
Misc. industrial and commercial machinery .....	359	43.2	42.9	41.9	42.7	—	5.6	5.5	4.8	5.4	—
Carburetors, pistons, rings, valves .....	3592	41.7	40.8	40.3	41.3	—	4.6	4.5	4.5	5.4	—
Scales, balances, and industrial machinery, nec ..	3596,9	43.1	42.9	42.0	42.7	—	5.7	5.6	4.9	5.4	—
Electronic and other electrical equipment .....	36	41.8	42.0	40.4	41.3	41.5	4.0	4.1	3.2	3.6	—
Electric distribution equipment .....	361	41.5	41.8	39.1	40.3	—	4.0	4.1	3.0	3.9	—
Transformers, except electronic .....	3612	41.9	42.3	40.5	41.3	—	3.6	3.7	2.9	3.4	—
Switchgear and switchboard apparatus .....	3613	41.1	41.4	37.9	39.4	—	4.5	4.4	3.1	4.3	—
Electrical industrial apparatus .....	362	41.9	41.7	39.9	41.2	—	3.8	3.7	2.8	3.5	—
Motors and generators .....	3621	42.0	41.9	39.6	41.0	—	3.9	3.8	2.5	3.3	—
Relays and industrial controls .....	3625	41.2	40.9	38.9	40.8	—	3.7	3.6	2.7	3.5	—
Household appliances .....	363	40.3	39.8	38.3	40.2	—	2.6	2.8	1.6	2.0	—
Household refrigerators and freezers .....	3632	39.8	37.7	37.3	40.0	—	2.6	2.1	1.7	1.7	—
Household laundry equipment .....	3633	39.7	39.7	40.5	40.1	—	1.5	1.7	2.7	2.1	—
Electric housewares and fans .....	3634	40.5	41.7	38.7	40.8	—	2.4	2.9	1.2	2.0	—
Electric lighting and wiring equipment .....	364	42.4	42.3	39.8	41.4	—	4.3	4.4	2.9	3.7	—
Electric lamps .....	3641	43.1	43.4	41.0	41.1	—	4.9	5.3	2.8	3.4	—
Current-carrying wiring devices .....	3643	42.1	41.6	39.7	41.3	—	4.6	4.4	3.1	3.9	—
Noncurrent-carrying wiring devices .....	3644	42.3	41.7	40.8	43.2	—	3.2	3.0	2.3	3.6	—
Residential lighting fixtures .....	3645	39.0	39.0	36.2	39.2	—	2.0	2.0	2.7	2.9	—
Household audio and video equipment .....	365	42.0	42.4	40.0	40.6	—	4.2	4.1	3.8	4.5	—
Household audio and video equipment .....	3651	41.0	41.9	38.5	38.9	—	3.4	3.5	2.7	2.9	—
Communications equipment .....	366	41.9	42.3	41.7	42.0	—	3.6	3.8	2.6	3.0	—
Telephone and telegraph apparatus .....	3661	43.5	44.2	43.7	44.1	—	4.1	4.5	3.3	3.8	—
Electronic components and accessories .....	367	41.9	42.4	40.7	41.1	—	4.4	4.5	3.7	3.9	—
Electron tubes .....	3671	40.6	39.8	41.4	40.9	—	4.4	4.3	3.5	3.7	—
Semiconductors and related devices .....	3674	42.0	43.2	42.3	42.5	—	4.3	4.8	5.0	4.7	—
Electronic components, nec .....	3679	41.9	42.4	40.2	40.9	—	4.0	4.2	3.0	3.7	—
Misc. electrical equipment and supplies .....	369	41.6	42.1	41.5	42.6	—	4.2	4.4	4.0	4.2	—
Storage batteries .....	3691	41.1	41.4	38.5	42.1	—	4.1	4.1	2.9	4.1	—
Engine electrical equipment .....	3694	42.1	43.0	43.2	43.1	—	4.7	5.2	5.4	4.7	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$13.94	\$13.96	\$14.32	\$14.38	\$14.43	\$606.39	\$605.86	\$600.01	\$619.78	\$623.38
Engines and turbines .....	351	16.93	16.87	16.74	17.24	—	736.46	730.47	728.19	779.25	—
Turbines and turbine generator sets .....	3511	19.22	19.10	19.70	20.40	—	805.32	809.84	797.85	877.20	—
Internal combustion engines, nec .....	3519	16.20	16.14	15.80	16.25	—	712.80	703.70	703.10	747.50	—
Farm and garden machinery .....	352	13.60	13.76	14.17	13.91	—	590.24	584.80	580.97	588.39	—
Farm machinery and equipment .....	3523	14.81	14.77	15.04	14.74	—	645.72	638.06	622.66	617.61	—
Construction and related machinery .....	353	13.54	13.52	13.57	13.72	—	601.18	607.05	579.44	606.42	—
Construction machinery .....	3531	13.86	13.88	13.93	14.11	—	614.00	616.27	597.60	623.66	—
Mining machinery .....	3532	14.30	14.60	14.45	14.49	—	609.18	627.80	588.12	607.13	—
Oil and gas field machinery .....	3533	13.43	13.25	13.32	13.52	—	658.07	661.18	599.40	651.66	—
Conveyors and conveying equipment .....	3535	13.57	13.62	13.71	13.74	—	582.15	592.47	566.22	583.95	—
Industrial trucks and tractors .....	3537	12.34	12.33	12.52	12.63	—	510.88	510.46	505.81	517.83	—
Metalworking machinery .....	354	14.81	14.77	15.16	15.24	—	654.60	651.36	638.24	655.32	—
Machine tools, metal cutting types .....	3541	14.44	14.40	14.80	14.93	—	636.80	637.92	624.56	641.99	—
Machine tools, metal forming types .....	3542	15.27	15.12	15.48	15.71	—	677.99	662.26	651.71	688.10	—
Special dies, tools, jigs, and fixtures .....	3544	15.54	15.48	15.84	15.93	—	691.53	685.76	670.03	686.58	—
Machine tool accessories .....	3545	13.06	13.10	13.35	13.41	—	568.11	565.92	556.70	571.27	—
Power driven handtools .....	3546	12.04	12.14	12.54	12.41	—	504.48	502.60	497.84	522.46	—
Special industry machinery .....	355	14.56	14.61	14.94	15.01	—	630.45	634.07	623.00	630.42	—
Textile machinery .....	3552	12.54	12.67	13.03	13.02	—	517.90	532.14	515.99	529.91	—
Printing trades machinery .....	3555	15.40	15.56	16.09	15.85	—	636.02	642.63	658.08	659.36	—
Food products machinery .....	3556	14.30	14.15	14.56	14.83	—	600.60	598.55	611.52	627.31	—
General industrial machinery .....	356	13.68	13.71	13.96	14.00	—	590.98	590.90	576.55	600.60	—
Pumps and pumping equipment .....	3561	14.51	14.36	14.77	14.75	—	612.32	607.43	595.23	604.75	—
Ball and roller bearings .....	3562	14.82	14.97	15.26	15.20	—	652.08	649.70	634.82	677.92	—
Air and gas compressors .....	3563	14.23	14.36	14.71	14.71	—	617.58	620.35	610.47	639.89	—
Blowers and fans .....	3564	11.37	11.47	11.50	11.67	—	492.32	505.83	473.80	499.48	—
Speed changers, drives, and gears .....	3566	14.51	14.52	14.83	14.97	—	639.89	621.46	613.96	643.71	—
Power transmission equipment, nec .....	3568	13.35	13.29	13.35	13.45	—	564.71	568.81	550.02	575.66	—
Computer and office equipment .....	357	13.97	14.17	15.08	15.11	—	590.93	599.39	624.31	622.53	—
Electronic computers .....	3571	15.11	15.45	16.50	16.42	—	634.62	647.36	694.65	684.71	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	13.32	13.45	13.61	13.54	—	564.77	578.35	552.57	553.79	—
Refrigeration and service machinery .....	358	12.58	12.56	13.00	13.04	—	549.75	546.36	547.30	589.41	—
Refrigeration and heating equipment .....	3585	12.85	12.86	13.39	13.40	—	565.40	563.27	569.08	619.08	—
Misc. industrial and commercial machinery .....	359	13.51	13.55	13.89	13.99	—	583.63	581.30	581.99	597.37	—
Carburetors, pistons, rings, valves .....	3592	14.07	14.13	14.50	14.52	—	586.72	576.50	584.35	599.68	—
Scales, balances, and industrial machinery, nec ..	3596,9	13.31	13.37	13.74	13.83	—	573.66	573.57	577.08	590.54	—
Electronic and other electrical equipment .....	36	12.55	12.59	13.09	13.03	13.09	524.59	528.78	528.84	538.14	543.24
Electric distribution equipment .....	361	12.58	12.54	13.10	13.05	—	522.07	524.17	512.21	525.92	—
Transformers, except electronic .....	3612	11.63	11.59	12.16	12.01	—	487.30	490.26	492.48	496.01	—
Switchgear and switchboard apparatus .....	3613	13.53	13.47	14.00	14.01	—	556.08	557.66	530.60	551.99	—
Electrical industrial apparatus .....	362	12.06	12.12	12.37	12.36	—	505.31	505.40	493.56	509.23	—
Motors and generators .....	3621	11.27	11.26	11.42	11.43	—	473.34	471.79	452.23	468.63	—
Relays and industrial controls .....	3625	13.58	13.74	14.14	14.06	—	559.50	561.97	550.05	573.65	—
Household appliances .....	363	12.04	12.05	12.36	12.20	—	485.21	479.59	473.39	490.44	—
Household refrigerators and freezers .....	3632	13.26	13.01	13.28	12.97	—	527.75	490.48	495.34	518.80	—
Household laundry equipment .....	3633	14.27	14.35	14.00	14.26	—	566.52	569.70	567.00	571.83	—
Electric housewares and fans .....	3634	9.97	10.03	10.59	10.46	—	403.79	418.25	409.83	426.77	—
Electric lighting and wiring equipment .....	364	12.66	12.66	12.67	12.74	—	536.78	535.52	504.27	527.44	—
Electric lamps .....	3641	15.44	15.42	16.35	16.46	—	665.46	669.23	670.35	676.51	—
Current-carrying wiring devices .....	3643	12.88	12.88	12.84	13.06	—	542.25	535.81	509.75	539.38	—
Noncurrent-carrying wiring devices .....	3644	11.26	11.27	11.45	11.63	—	476.30	469.96	467.16	502.42	—
Residential lighting fixtures .....	3645	9.09	9.25	9.17	9.23	—	354.51	360.75	350.29	361.82	—
Household audio and video equipment .....	365	10.90	10.90	11.80	11.93	—	457.80	462.16	472.00	484.36	—
Household audio and video equipment .....	3651	10.70	10.62	11.33	11.37	—	438.70	444.98	436.21	442.29	—
Communications equipment .....	366	13.79	13.96	13.82	13.92	—	577.80	590.51	576.29	584.64	—
Telephone and telegraph apparatus .....	3661	15.01	15.39	14.75	14.69	—	652.94	680.24	644.58	647.83	—
Electronic components and accessories .....	367	12.30	12.30	13.22	13.18	—	515.37	521.52	538.05	541.70	—
Electron tubes .....	3671	14.31	14.59	15.09	14.87	—	580.99	580.68	624.73	608.18	—
Semiconductors and related devices .....	3674	15.73	15.58	17.48	17.36	—	660.66	673.06	739.40	737.80	—
Electronic components, nec .....	3679	10.36	10.37	10.70	10.76	—	434.08	439.69	430.14	440.08	—
Misc. electrical equipment and supplies .....	369	13.51	13.63	14.02	13.60	—	562.02	573.82	581.83	579.36	—
Storage batteries .....	3691	14.60	14.86	15.12	14.88	—	600.06	615.20	582.12	626.45	—
Engine electrical equipment .....	3694	13.84	13.75	14.68	13.90	—	582.66	591.25	634.18	599.09	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	44.7	44.6	41.4	43.7	43.0	6.4	6.2	4.9	5.7	—
Motor vehicles and equipment .....	371	45.5	45.3	41.2	44.1	42.7	6.9	6.6	5.2	6.0	—
Motor vehicles and car bodies .....	3711	46.8	46.4	39.6	44.6	—	7.5	6.7	4.4	6.4	—
Truck and bus bodies .....	3713	45.8	44.8	44.0	44.0	—	7.0	6.2	6.4	6.5	—
Motor vehicle parts and accessories .....	3714	45.0	45.0	42.0	44.0	—	6.9	6.9	5.8	5.9	—
Truck trailers .....	3715	42.1	42.2	41.1	44.3	—	3.9	4.3	4.2	5.7	—
Aircraft and parts .....	372	44.2	44.6	42.8	44.0	—	6.8	7.0	5.2	6.0	—
Aircraft .....	3721	43.9	44.4	42.7	44.0	—	6.9	7.1	5.0	6.0	—
Aircraft engines and engine parts .....	3724	44.6	44.5	42.9	44.0	—	6.4	6.3	4.8	5.7	—
Aircraft parts and equipment, nec .....	3728	44.5	44.9	42.9	44.0	—	7.0	7.3	5.6	6.2	—
Ship and boat building and repairing .....	373	42.6	41.9	40.4	42.4	—	4.4	3.9	3.3	4.9	—
Ship building and repairing .....	3731	44.4	43.4	40.6	43.4	—	5.3	4.6	3.5	5.7	—
Boat building and repairing .....	3732	39.9	39.7	40.0	41.0	—	3.2	2.8	3.1	3.9	—
Railroad equipment .....	374	43.5	43.6	42.3	43.0	—	4.1	3.9	3.0	3.6	—
Guided missiles, space vehicles, and parts .....	376	42.6	42.8	40.6	41.9	—	3.7	4.0	3.0	4.0	—
Guided missiles and space vehicles .....	3761	42.9	42.8	41.0	41.5	—	3.9	3.9	3.1	3.7	—
Misc. transportation equipment .....	379	40.3	39.6	39.8	40.4	—	3.9	3.1	3.3	3.6	—
Travel trailers and campers .....	3792	38.3	37.7	37.7	37.8	—	2.3	1.6	2.1	2.0	—
Instruments and related products .....	38	41.7	41.9	40.6	41.2	41.2	3.7	3.9	2.9	3.1	—
Search and navigation equipment .....	381	43.4	43.5	42.3	42.1	—	3.8	3.9	3.3	3.4	—
Measuring and controlling devices .....	382	41.6	41.6	40.5	41.1	—	3.4	3.4	2.5	2.8	—
Environmental controls .....	3822	40.0	41.2	37.6	39.6	—	2.9	3.2	2.5	3.1	—
Process control instruments .....	3823	41.4	41.4	40.7	41.1	—	3.4	3.3	2.6	2.9	—
Instruments to measure electricity .....	3825	41.7	41.3	41.4	41.9	—	3.3	3.3	1.8	2.0	—
Medical instruments and supplies .....	384	41.4	41.7	39.9	40.9	—	3.3	3.6	2.9	3.3	—
Surgical and medical instrument .....	3841	42.0	41.9	39.8	41.0	—	3.8	4.3	2.6	3.3	—
Surgical appliances and supplies .....	3842	40.3	41.0	39.3	40.4	—	2.7	3.0	3.2	3.5	—
Ophthalmic goods .....	385	39.6	40.4	41.3	41.2	—	2.1	2.6	3.0	3.0	—
Photographic equipment and supplies .....	386	43.7	43.5	42.7	42.4	—	8.1	7.7	4.2	3.2	—
Watches, clocks, watchcases, and parts .....	387	37.8	40.2	37.0	39.7	—	1.4	3.0	1.6	3.0	—
Miscellaneous manufacturing industries .....	39	40.0	40.1	39.4	39.9	40.0	3.1	2.9	2.6	2.9	—
Jewelry, silverware, and plated ware .....	391	38.7	39.2	39.1	39.2	—	1.9	1.8	2.0	2.4	—
Jewelry, precious metal .....	3911	38.0	38.6	38.2	38.5	—	1.7	1.5	2.0	2.4	—
Musical instruments .....	393	41.0	41.9	39.6	39.4	—	2.6	2.6	2.1	2.3	—
Toys and sporting goods .....	394	39.7	39.6	39.8	40.1	—	2.9	2.5	2.5	2.4	—
Dolls, games, toys, and children's vehicles .....	3942,4	38.7	39.1	37.9	39.0	—	2.2	2.0	1.6	1.3	—
Sporting and athletic goods, nec .....	3949	40.1	39.8	40.6	40.5	—	3.3	2.8	2.9	2.8	—
Pens, pencils, office, and art supplies .....	395	40.6	40.9	38.1	39.4	—	3.6	3.4	2.7	3.4	—
Costume jewelry and notions .....	396	40.5	39.9	38.3	38.7	—	2.8	2.8	1.7	2.6	—
Costume jewelry .....	3961	40.4	39.6	37.6	38.1	—	2.2	2.4	1.0	2.1	—
Miscellaneous manufactures .....	399	40.3	40.5	39.7	40.3	—	3.5	3.4	2.9	3.4	—
Signs and advertising specialties .....	3993	41.0	41.3	41.1	41.6	—	4.2	4.2	3.8	4.4	—
<b>Nondurable goods .....</b>		<b>40.6</b>	<b>40.7</b>	<b>40.0</b>	<b>40.8</b>	<b>41.0</b>	<b>4.1</b>	<b>4.1</b>	<b>3.8</b>	<b>4.2</b>	<b>4.3</b>
Food and kindred products .....	20	41.0	40.8	40.4	41.5	41.6	4.8	4.7	4.2	4.9	—
Meat products .....	201	40.3	39.9	39.7	41.0	—	4.3	4.1	3.9	4.6	—
Meat packing plants .....	2011	41.4	40.3	41.4	42.6	—	4.8	4.2	3.9	4.8	—
Sausages and other prepared meats .....	2013	41.7	41.1	40.8	41.7	—	5.3	5.3	5.6	5.9	—
Poultry slaughtering and processing .....	2015	39.2	39.2	38.4	39.9	—	3.7	3.7	3.2	4.1	—
Dairy products .....	202	42.3	42.6	41.4	42.0	—	5.0	5.3	4.7	5.1	—
Cheese, natural and processed .....	2022	41.5	42.2	40.6	41.3	—	4.2	4.8	4.1	4.4	—
Fluid milk .....	2026	42.1	41.7	40.8	40.9	—	4.7	4.6	4.4	4.5	—
Preserved fruits and vegetables .....	203	40.5	40.8	39.5	41.1	—	4.5	5.1	3.8	5.0	—
Canned specialties .....	2032	41.0	40.8	40.7	41.8	—	4.8	5.5	4.2	5.5	—
Canned fruits and vegetables .....	2033	39.7	39.8	39.0	40.8	—	4.0	5.1	4.0	5.1	—
Frozen fruits and vegetables .....	2037	40.3	40.2	40.3	40.4	—	4.3	4.9	3.8	4.3	—
Grain mill products .....	204	45.2	44.8	44.7	45.8	—	6.6	6.5	6.0	6.9	—
Flour and other grain mill products .....	2041	44.5	44.9	44.5	45.9	—	6.2	6.4	4.9	6.8	—
Prepared feeds, nec .....	2048	44.2	44.0	43.6	43.8	—	6.4	6.5	5.6	5.6	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$17.43	\$17.42	\$17.71	\$17.65	\$17.44	\$779.12	\$776.93	\$733.19	\$771.31	\$749.92
Motor vehicles and equipment .....	371	17.94	17.89	18.35	18.16	17.76	816.27	810.42	756.02	800.86	758.35
Motor vehicles and car bodies .....	3711	21.47	21.39	22.22	22.03	—	1,004.80	992.50	879.91	982.54	—
Truck and bus bodies .....	3713	15.12	14.84	15.96	15.69	—	692.50	664.83	702.24	690.36	—
Motor vehicle parts and accessories .....	3714	16.53	16.47	17.04	16.63	—	743.85	741.15	715.68	731.72	—
Truck trailers .....	3715	11.13	11.23	11.22	11.38	—	468.57	473.91	461.14	504.13	—
Aircraft and parts .....	372	18.68	18.78	18.76	18.92	—	825.66	837.59	802.93	832.48	—
Aircraft .....	3721	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Aircraft engines and engine parts .....	3724	18.32	18.37	18.58	18.74	—	817.07	817.47	797.08	824.56	—
Aircraft parts and equipment, nec .....	3728	16.63	16.66	16.61	16.69	—	740.04	748.03	712.57	734.36	—
Ship and boat building and repairing .....	373	13.31	13.14	13.10	13.27	—	567.01	550.57	529.24	562.65	—
Ship building and repairing .....	3731	14.78	14.56	14.43	14.65	—	656.23	631.90	585.86	635.81	—
Boat building and repairing .....	3732	10.85	10.87	11.22	11.24	—	432.92	431.54	448.80	460.84	—
Railroad equipment .....	374	16.62	16.52	16.95	16.99	—	722.97	720.27	716.99	730.57	—
Guided missiles, space vehicles, and parts .....	376	19.28	19.31	19.61	19.67	—	821.33	826.47	796.17	824.17	—
Guided missiles and space vehicles .....	3761	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Misc. transportation equipment .....	379	11.62	11.34	11.89	11.92	—	468.29	449.06	473.22	481.57	—
Travel trailers and campers .....	3792	11.50	11.33	12.05	12.06	—	440.45	427.14	454.29	455.87	—
Instruments and related products .....	38	13.48	13.51	13.75	13.76	13.70	562.12	566.07	558.25	566.91	564.44
Search and navigation equipment .....	381	16.68	16.72	17.18	17.16	—	723.91	727.32	726.71	722.44	—
Measuring and controlling devices .....	382	13.49	13.49	13.76	13.82	—	561.18	561.18	557.28	568.00	—
Environmental controls .....	3822	11.65	11.60	11.91	11.98	—	466.00	477.92	447.82	474.41	—
Process control instruments .....	3823	13.31	13.26	13.68	13.74	—	551.03	548.96	556.78	564.71	—
Instruments to measure electricity .....	3825	15.31	15.38	15.75	15.80	—	638.43	635.19	652.05	662.02	—
Medical instruments and supplies .....	384	12.46	12.58	12.85	12.84	—	515.84	524.59	512.72	525.16	—
Surgical and medical instrument .....	3841	11.79	12.09	12.05	12.09	—	495.18	506.57	479.59	495.69	—
Surgical appliances and supplies .....	3842	11.53	11.46	11.97	11.90	—	464.66	469.86	470.42	480.76	—
Ophthalmic goods .....	385	10.16	10.01	10.36	10.25	—	402.34	404.40	427.87	422.30	—
Photographic equipment and supplies .....	386	15.90	15.89	16.07	16.34	—	694.83	691.22	686.19	692.82	—
Watches, clocks, watchcases, and parts .....	387	9.89	9.95	10.46	10.49	—	373.84	399.99	387.02	416.45	—
Miscellaneous manufacturing industries .....	39	10.51	10.49	10.76	10.79	10.81	420.40	420.65	423.94	430.52	432.40
Jewelry, silverware, and plated ware .....	391	10.89	10.85	11.28	11.34	—	421.44	425.32	441.05	444.53	—
Jewelry, precious metal .....	3911	10.95	10.90	11.40	11.46	—	416.10	420.74	435.48	441.21	—
Musical instruments .....	393	10.75	10.59	11.05	10.99	—	440.75	443.72	437.58	433.01	—
Toys and sporting goods .....	394	9.91	9.91	10.33	10.37	—	393.43	392.44	411.13	415.84	—
Dolls, games, toys, and children's vehicles .....	3942.4	9.49	9.43	9.94	9.97	—	367.26	368.71	376.73	388.83	—
Sporting and athletic goods, nec .....	3949	10.09	10.13	10.49	10.53	—	404.61	403.17	425.89	426.47	—
Pens, pencils, office, and art supplies .....	395	11.17	11.08	11.18	11.29	—	453.50	453.17	425.96	444.83	—
Costume jewelry and notions .....	396	9.29	9.31	9.69	9.82	—	376.25	371.47	371.13	380.03	—
Costume jewelry .....	3961	8.26	8.32	8.85	9.03	—	333.70	329.47	332.76	344.04	—
Miscellaneous manufactures .....	399	10.84	10.82	10.93	10.92	—	436.85	438.21	433.92	440.08	—
Signs and advertising specialties .....	3993	11.26	11.26	11.54	11.58	—	461.66	465.04	474.29	481.73	—
<b>Nondurable goods .....</b>		<b>12.26</b>	<b>12.26</b>	<b>12.71</b>	<b>12.70</b>	<b>12.69</b>	<b>497.76</b>	<b>498.98</b>	<b>508.40</b>	<b>518.16</b>	<b>520.29</b>
Food and kindred products .....	20	11.47	11.44	11.75	11.78	11.78	470.27	466.75	474.70	488.87	490.05
Meat products .....	201	9.32	9.26	9.51	9.60	—	375.60	369.47	377.55	393.60	—
Meat packing plants .....	2011	10.00	9.89	10.07	10.19	—	414.00	398.57	416.90	434.09	—
Sausages and other prepared meats .....	2013	10.74	10.67	11.15	11.04	—	447.86	438.54	454.92	460.37	—
Poultry slaughtering and processing .....	2015	8.39	8.38	8.55	8.71	—	328.89	328.50	328.32	347.53	—
Dairy products .....	202	13.14	13.19	13.40	13.39	—	555.82	561.89	554.76	562.38	—
Cheese, natural and processed .....	2022	12.05	12.18	12.29	12.20	—	500.08	514.00	498.97	503.86	—
Fluid milk .....	2026	13.85	13.96	14.00	14.12	—	583.09	582.13	571.20	577.51	—
Preserved fruits and vegetables .....	203	10.95	10.89	11.33	11.24	—	443.48	444.31	447.54	461.96	—
Canned specialties .....	2032	14.18	14.16	14.29	14.47	—	581.38	577.73	581.60	604.85	—
Canned fruits and vegetables .....	2033	12.00	12.02	12.39	12.17	—	476.40	478.40	483.21	496.54	—
Frozen fruits and vegetables .....	2037	10.18	10.13	10.58	10.47	—	410.25	407.23	426.37	422.99	—
Grain mill products .....	204	14.26	14.09	14.81	14.86	—	644.55	631.23	662.01	680.59	—
Flour and other grain mill products .....	2041	12.37	12.50	12.77	12.95	—	550.47	561.25	568.27	594.41	—
Prepared feeds, nec .....	2048	11.27	11.19	11.65	11.52	—	498.13	492.36	507.94	504.58	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	40.3	40.1	40.2	41.0	—	4.6	4.5	4.6	5.1	—
Bread, cake, and related products .....	2051	40.5	40.3	40.3	41.0	—	4.9	4.8	4.9	5.6	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	40.0	39.8	40.1	41.0	—	4.2	3.9	3.9	4.1	—
Sugar and confectionery products .....	206	39.1	39.5	39.2	40.0	—	2.9	3.3	2.7	3.3	—
Raw cane sugar .....	2061	40.7	40.1	51.0	49.2	—	4.0	3.4	7.3	6.1	—
Cane sugar refining .....	2062	44.2	46.4	45.7	47.7	—	7.9	8.9	7.3	8.5	—
Beet sugar .....	2063	41.6	42.2	40.5	40.7	—	2.3	2.2	4.2	2.5	—
Candy and other confectionery products .....	2064	37.9	38.4	38.7	39.6	—	2.3	2.9	2.2	3.2	—
Fats and oils .....	207	42.3	42.7	42.5	42.9	—	5.8	5.9	6.3	5.7	—
Beverages .....	208	44.4	44.2	42.9	44.7	—	6.1	6.0	5.5	6.4	—
Malt beverages .....	2082	48.3	48.7	48.7	49.0	—	8.8	8.9	9.0	8.4	—
Bottled and canned soft drinks .....	2086	44.5	43.8	42.5	45.3	—	6.4	6.2	5.4	7.1	—
Misc. food and kindred products .....	209	39.9	38.8	38.8	38.9	—	5.1	4.3	3.6	4.2	—
Tobacco products .....	21	38.7	39.2	37.0	38.9	39.7	2.7	2.4	1.8	2.9	—
Cigarettes .....	211	38.9	39.4	35.9	38.3	—	3.0	2.5	1.4	2.7	—
Textile mill products .....	22	41.2	41.7	40.1	41.1	41.5	4.5	4.7	4.0	4.4	—
Broadwoven fabric mills, cotton .....	221	42.4	42.5	41.1	42.1	—	5.5	5.8	4.6	5.6	—
Broadwoven fabric mills, synthetics .....	222	41.3	42.1	39.7	41.2	—	4.7	5.2	4.0	5.0	—
Broadwoven fabric mills, wool .....	223	42.9	42.2	38.5	37.3	—	6.4	5.7	3.3	3.3	—
Narrow fabric mills .....	224	40.8	41.2	39.9	39.8	—	3.3	3.5	2.6	2.3	—
Knitting mills .....	225	39.9	40.6	38.4	40.1	—	3.5	3.7	3.0	3.5	—
Women's hosiery, except socks .....	2251	36.3	38.0	37.2	38.6	—	2.1	2.1	1.4	2.0	—
Hosiery, nec .....	2252	38.0	38.6	36.3	38.2	—	2.8	3.2	2.7	3.0	—
Knit outerwear mills .....	2253	39.9	40.6	39.3	40.7	—	3.1	3.3	3.2	3.3	—
Knit underwear mills .....	2254	39.5	41.3	34.6	39.2	—	2.5	3.3	0.5	1.9	—
Wett knit fabric mills .....	2257	42.6	42.7	39.9	40.6	—	5.8	6.0	4.7	5.1	—
Textile finishing, except wool .....	226	42.8	42.8	40.7	41.5	—	5.6	5.4	4.5	4.8	—
Finishing plants, cotton .....	2261	43.5	43.0	40.0	41.8	—	6.1	5.7	4.3	4.8	—
Finishing plants, synthetics .....	2262	41.2	42.1	41.3	41.0	—	4.3	4.8	4.0	4.2	—
Carpets and rugs .....	227	39.2	41.3	41.6	42.0	—	4.0	4.9	5.2	5.2	—
Yarn and thread mills .....	228	41.8	41.9	41.1	41.5	—	4.6	4.7	4.1	4.6	—
Yarn spinning mills .....	2281	42.5	42.6	42.4	42.5	—	4.9	5.1	4.7	5.0	—
Throwing and winding mills .....	2282	38.1	38.5	36.6	36.9	—	3.0	3.0	2.2	2.8	—
Miscellaneous textile goods .....	229	42.5	42.8	41.4	42.2	—	4.8	5.1	4.3	4.7	—
Apparel and other textile products .....	23	37.1	37.7	36.5	37.4	37.7	2.0	2.2	1.7	2.1	—
Men's and boys' suits and coats .....	231	37.1	37.6	36.8	37.6	—	1.2	1.2	0.6	0.7	—
Men's and boys' furnishings .....	232	36.9	37.1	36.0	37.1	—	1.4	1.5	1.4	1.7	—
Men's and boys' shirts .....	2321	36.5	36.0	35.4	37.0	—	1.5	1.4	1.1	1.6	—
Men's and boys' trousers and slacks .....	2325	36.1	36.7	34.6	36.3	—	1.1	1.2	1.0	1.5	—
Men's and boys' work clothing .....	2326	37.4	38.0	36.6	37.2	—	1.5	1.8	1.5	1.5	—
Women's and misses' outerwear .....	233	35.4	36.4	35.5	36.1	—	1.5	1.6	1.2	1.3	—
Women's and misses' blouses and shirts .....	2331	35.5	36.6	34.8	35.5	—	1.8	1.5	1.4	1.9	—
Women's, juniors', and misses' dresses .....	2335	36.9	37.1	37.3	37.4	—	2.1	2.3	2.0	2.1	—
Women's and misses' suits and coats .....	2337	35.7	36.4	36.2	37.4	—	1.6	2.1	1.0	1.3	—
Women's and misses' outerwear, nec .....	2339	35.0	36.2	35.1	35.7	—	1.3	1.4	1.0	1.0	—
Women's and children's undergarments .....	234	37.1	37.5	35.0	37.3	—	1.6	2.1	1.2	1.7	—
Women's and children's underwear .....	2341	36.3	37.4	34.6	36.4	—	1.3	1.8	1.1	1.3	—
Brassieres, girdles, and allied garments .....	2342	39.4	37.8	36.3	39.9	—	2.5	2.8	1.4	2.9	—
Girls' and children's outerwear .....	236	37.0	37.3	35.1	35.4	—	2.7	2.7	2.4	2.9	—
Girls' and children's dresses and blouses .....	2361	37.0	37.5	34.0	35.5	—	3.3	3.3	3.1	4.0	—
Misc. apparel and accessories .....	238	37.7	37.6	36.3	37.0	—	1.8	1.7	1.5	1.6	—
Misc. fabricated textile products .....	239	39.4	40.0	38.3	39.2	—	3.5	3.9	2.8	3.5	—
Curtains and draperies .....	2391	36.3	37.0	36.2	35.5	—	1.3	1.3	1.1	1.4	—
House furnishings, nec .....	2392	38.7	39.2	39.1	39.9	—	3.5	3.8	2.3	3.7	—
Automotive and apparel trimmings .....	2396	40.4	41.1	38.3	39.7	—	4.1	4.8	3.1	3.8	—
Paper and allied products .....	26	43.4	43.4	42.5	43.2	43.5	5.5	5.4	4.9	5.5	—
Paper mills .....	262	45.3	44.7	45.5	45.2	—	6.7	6.3	6.9	6.7	—
Paperboard mills .....	263	44.6	44.9	44.6	44.7	—	7.6	6.7	7.6	7.8	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	\$12.47	\$12.45	\$12.80	\$12.83	—	\$502.54	\$499.25	\$514.56	\$526.03	—
Bread, cake, and related products .....	2051	12.52	12.57	12.85	12.88	—	507.06	506.57	517.86	528.08	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	12.37	12.24	12.69	12.73	—	494.80	487.15	508.87	521.93	—
Sugar and confectionery products .....	206	12.92	13.09	13.08	13.10	—	505.17	517.06	512.74	524.00	—
Raw cane sugar .....	2061	12.09	11.87	12.08	11.03	—	492.06	475.99	616.08	542.68	—
Cane sugar refining .....	2062	17.59	17.67	17.94	18.14	—	777.48	819.89	819.86	865.28	—
Beet sugar .....	2063	13.95	13.91	14.60	14.00	—	580.32	587.00	591.30	569.80	—
Candy and other confectionery products .....	2064	12.04	12.17	12.13	12.27	—	456.32	467.33	469.43	485.89	—
Fats and oils .....	207	12.79	12.77	12.86	12.92	—	541.02	545.28	546.55	554.27	—
Beverages .....	208	16.12	15.99	16.32	16.11	—	715.73	706.76	700.13	720.12	—
Malt beverages .....	2082	22.53	22.08	22.80	22.22	—	1,088.20	1,075.30	1,110.36	1,088.78	—
Bottled and canned soft drinks .....	2086	13.40	13.35	13.51	13.43	—	596.30	584.73	574.18	608.38	—
Misc. food and kindred products .....	209	10.20	10.19	10.48	10.65	—	406.98	395.37	406.62	414.29	—
Tobacco products .....	21	20.79	21.12	18.94	20.32	\$20.82	804.57	827.90	700.78	790.45	\$826.55
Cigarettes .....	211	24.50	24.82	24.17	24.73	—	953.05	977.91	867.70	947.16	—
Textile mill products .....	22	9.95	9.98	10.39	10.37	10.37	409.94	416.17	416.64	426.21	430.36
Broadwoven fabric mills, cotton .....	221	10.37	10.38	10.83	10.86	—	439.69	441.15	445.11	457.21	—
Broadwoven fabric mills, synthetics .....	222	10.91	10.96	11.15	11.28	—	450.58	461.42	442.66	464.74	—
Broadwoven fabric mills, wool .....	223	10.39	10.55	10.73	10.78	—	445.73	445.21	413.11	402.09	—
Narrow fabric mills .....	224	9.18	9.11	9.50	9.42	—	374.54	375.33	379.05	374.92	—
Knitting mills .....	225	9.10	9.10	9.51	9.45	—	363.09	369.46	365.18	378.95	—
Women's hosiery, except socks .....	2251	8.50	8.57	8.68	8.74	—	308.55	325.66	322.90	337.36	—
Hosiery, nec .....	2252	8.98	9.03	9.41	9.47	—	341.24	348.56	341.58	361.75	—
Knit outerwear mills .....	2253	8.53	8.50	9.02	8.72	—	340.35	345.10	354.49	354.90	—
Knit underwear mills .....	2254	9.12	9.12	9.95	10.00	—	360.24	376.66	344.27	392.00	—
Welt knit fabric mills .....	2257	10.07	10.06	10.23	10.25	—	428.98	429.56	408.18	416.15	—
Textile finishing, except wool .....	226	10.18	10.25	10.63	10.60	—	435.70	438.70	432.64	439.90	—
Finishing plants, cotton .....	2261	10.15	10.12	10.55	10.50	—	441.53	435.16	422.00	438.90	—
Finishing plants, synthetics .....	2262	10.51	10.82	11.03	11.04	—	433.01	455.52	455.54	452.64	—
Carpets and rugs .....	227	9.87	9.94	10.63	10.54	—	386.90	410.52	442.21	442.68	—
Yarn and thread mills .....	228	9.65	9.69	9.94	10.02	—	403.37	406.01	408.53	415.83	—
Yarn spinning mills .....	2281	9.65	9.69	9.92	10.01	—	410.13	412.79	420.61	425.43	—
Throwing and winding mills .....	2282	9.79	9.87	10.09	10.14	—	373.00	380.00	369.29	374.17	—
Miscellaneous textile goods .....	229	11.51	11.51	11.95	11.82	—	489.18	492.63	494.73	498.80	—
Apparel and other textile products .....	23	8.22	8.25	8.47	8.46	8.49	304.96	311.03	309.16	316.40	320.07
Men's and boys' suits and coats .....	231	8.38	8.37	8.64	8.60	—	310.90	314.71	317.95	323.36	—
Men's and boys' furnishings .....	232	7.68	7.68	8.07	7.98	—	283.39	284.93	290.52	296.06	—
Men's and boys' shirts .....	2321	7.53	7.49	7.90	7.82	—	274.85	269.64	279.66	289.34	—
Men's and boys' trousers and slacks .....	2325	7.75	7.78	8.34	8.24	—	279.78	285.53	288.56	299.11	—
Men's and boys' work clothing .....	2326	7.72	7.67	7.79	7.78	—	288.73	291.46	285.11	289.42	—
Women's and misses' outerwear .....	233	7.78	7.80	8.10	8.11	—	275.41	283.92	287.55	292.77	—
Women's and misses' blouses and shirts .....	2331	7.05	6.99	7.22	7.41	—	250.28	255.83	251.26	263.06	—
Women's, juniors', and misses' dresses .....	2335	8.84	8.82	9.28	9.29	—	326.20	327.22	346.14	347.45	—
Women's and misses' suits and coats .....	2337	7.95	8.11	7.94	8.10	—	283.82	295.20	287.43	302.94	—
Women's and misses' outerwear, nec .....	2339	7.59	7.62	7.94	7.90	—	265.65	275.84	278.69	282.03	—
Women's and children's undergarments .....	234	7.76	7.80	8.12	8.14	—	287.90	292.50	284.20	303.62	—
Women's and children's underwear .....	2341	7.71	7.70	7.93	7.98	—	279.87	287.98	274.38	290.47	—
Brassieres, girdles, and allied garments .....	2342	7.88	8.09	8.66	8.57	—	310.47	305.80	314.36	341.94	—
Girls' and children's outerwear .....	236	7.56	7.50	8.00	8.06	—	279.72	279.75	280.80	285.32	—
Girls' and children's dresses and blouses .....	2361	7.50	7.38	7.66	7.80	—	277.50	276.75	260.44	276.90	—
Misc. apparel and accessories .....	238	7.72	7.78	8.21	8.20	—	291.04	292.53	298.02	303.40	—
Misc. fabricated textile products .....	239	9.37	9.40	9.28	9.27	—	369.18	376.00	355.42	363.38	—
Curtains and draperies .....	2391	7.99	8.07	8.21	8.28	—	290.04	298.59	297.20	293.94	—
House furnishings, nec .....	2392	8.66	8.75	8.86	8.98	—	335.14	343.00	346.43	358.30	—
Automotive and apparel trimmings .....	2396	11.40	11.31	10.77	10.68	—	460.56	464.84	412.49	424.00	—
Paper and allied products .....	26	14.97	14.97	15.44	15.46	15.40	649.70	649.70	656.20	667.87	669.90
Paper mills .....	262	19.01	19.03	19.62	19.75	—	861.15	850.64	892.71	892.70	—
Paperboard mills .....	263	18.62	18.44	19.56	19.66	—	830.45	827.96	872.38	878.80	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	43.0	43.2	40.9	42.8	—	5.2	5.3	4.1	5.3	—
Corrugated and solid fiber boxes .....	2653	43.3	43.5	41.1	43.4	—	5.4	5.6	4.3	5.6	—
Sanitary food containers .....	2656	43.0	42.6	41.8	43.1	—	5.5	5.2	4.3	5.7	—
Folding paperboard boxes .....	2657	42.9	43.6	39.7	41.8	—	5.4	5.6	3.7	5.1	—
Misc. converted paper products .....	267	42.2	42.3	41.4	41.9	—	4.4	4.5	3.9	4.3	—
Paper, coated and laminated, nec .....	2672	43.0	43.5	42.7	42.9	—	4.2	4.3	3.9	4.4	—
Bags: plastics, laminated, and coated .....	2673	42.3	42.3	41.6	41.9	—	4.7	4.8	4.3	4.5	—
Envelopes .....	2677	42.0	41.5	40.7	40.3	—	3.8	3.7	3.1	3.1	—
Printing and publishing .....	27	38.1	38.0	37.8	38.1	38.1	3.1	2.9	2.9	3.1	—
Newspapers .....	271	33.4	33.0	32.9	33.1	—	1.5	1.4	1.3	1.5	—
Periodicals .....	272	35.9	36.8	35.6	35.8	—	2.2	2.5	1.8	1.8	—
Books .....	273	38.6	38.3	38.9	38.8	—	3.9	2.9	3.2	3.5	—
Book publishing .....	2731	37.6	37.0	37.3	37.9	—	3.7	1.8	2.8	2.9	—
Book printing .....	2732	39.9	40.1	40.8	39.8	—	4.1	4.2	3.6	4.1	—
Miscellaneous publishing .....	274	35.8	36.0	36.4	35.9	—	2.2	2.1	2.5	2.3	—
Commercial printing .....	275	39.7	39.4	39.4	39.8	—	3.8	3.5	3.6	3.8	—
Commercial printing, lithographic .....	2752	39.6	39.1	39.5	39.6	—	3.7	3.3	3.6	3.7	—
Commercial printing, nec .....	2759	39.7	39.7	39.3	40.1	—	3.7	3.7	3.5	3.9	—
Manifold business forms .....	276	40.9	41.5	40.3	40.6	—	3.3	3.6	2.3	2.8	—
Blankbooks and bookbinding .....	278	39.8	39.6	38.8	39.4	—	2.8	2.9	2.4	3.0	—
Printing trade services .....	279	39.6	39.6	39.7	40.0	—	4.2	4.1	4.2	4.4	—
Chemicals and allied products .....	28	43.1	43.1	42.9	42.9	43.2	5.0	5.0	4.9	5.0	—
Industrial inorganic chemicals .....	281	46.3	46.2	46.0	45.1	—	6.0	5.9	6.5	5.9	—
Industrial inorganic chemicals, nec .....	2819	46.4	46.2	45.4	44.3	—	5.7	5.7	6.7	5.8	—
Plastics materials and synthetics .....	282	43.2	43.5	44.2	43.1	—	5.5	5.4	5.8	5.5	—
Plastics materials and resins .....	2821	44.8	44.9	44.3	44.0	—	5.5	5.4	5.5	5.2	—
Organic fibers, noncellulosic .....	2824	41.7	42.1	45.5	42.7	—	5.0	5.0	5.9	5.0	—
Drugs .....	283	41.5	41.2	41.0	41.4	—	4.6	4.5	3.9	4.5	—
Pharmaceutical preparations .....	2834	41.6	41.3	40.7	41.5	—	4.5	4.2	3.6	4.3	—
Soap, cleaners, and toilet goods .....	284	41.0	41.3	40.5	41.2	—	3.0	3.2	2.9	3.4	—
Soap and other detergents .....	2841	42.4	42.5	41.9	42.9	—	3.8	4.0	4.2	4.8	—
Polishing, sanitation, and finishing preparations ..	2842,3	41.3	41.8	40.3	41.4	—	3.5	3.7	3.2	3.8	—
Toilet preparations .....	2844	40.3	40.6	40.0	40.4	—	2.5	2.6	2.2	2.6	—
Paints and allied products .....	285	42.8	42.8	42.3	43.2	—	4.8	5.0	3.9	4.8	—
Industrial organic chemicals .....	286	44.8	44.5	44.2	44.6	—	6.3	6.3	6.3	6.1	—
Cyclic crudes and intermediates .....	2865	45.2	46.5	41.9	43.7	—	6.5	7.9	4.7	5.2	—
Industrial organic chemicals, nec .....	2869	44.8	44.1	44.7	44.8	—	6.3	5.9	6.6	6.3	—
Agricultural chemicals .....	287	44.9	44.4	45.6	44.8	—	6.0	5.9	7.1	6.8	—
Miscellaneous chemical products .....	289	43.5	43.7	42.1	42.9	—	5.1	5.0	4.1	4.6	—
Petroleum and coal products .....	29	42.4	42.9	42.8	43.0	43.3	6.0	6.2	6.2	6.2	—
Petroleum refining .....	291	41.6	42.4	42.7	42.5	—	5.0	5.1	5.9	5.4	—
Asphalt paving and roofing materials .....	295	45.0	44.9	43.7	44.5	—	9.1	9.6	7.4	8.7	—
Rubber and misc. plastics products .....	30	41.7	41.7	41.0	41.9	42.1	4.4	4.4	4.0	4.4	—
Tires and inner tubes .....	301	43.0	43.2	43.0	42.5	—	6.0	5.8	6.2	5.5	—
Rubber and plastics footwear .....	302	41.8	41.4	38.7	38.2	—	2.7	2.5	4.2	2.5	—
Hose, belting, gaskets, and packing .....	305	43.0	42.5	40.8	42.3	—	5.2	4.8	3.8	4.7	—
Rubber and plastics hose and belting .....	3052	43.8	43.9	41.9	43.9	—	5.8	5.3	4.6	5.6	—
Fabricated rubber products, nec .....	306	42.0	42.4	40.8	42.5	—	4.6	4.5	3.4	4.3	—
Miscellaneous plastics products, nec .....	308	41.4	41.4	40.8	41.7	—	4.2	4.2	3.9	4.3	—
Leather and leather products .....	31	38.2	38.8	36.5	37.5	37.9	2.1	2.1	1.7	1.9	—
Leather tanning and finishing .....	311	42.4	42.3	40.2	41.0	—	5.0	4.9	3.9	4.6	—
Footwear, except rubber .....	314	37.3	38.1	35.2	36.4	—	1.6	1.5	1.3	1.3	—
Men's footwear, except athletic .....	3143	37.6	38.4	35.0	35.9	—	1.7	1.5	1.1	1.2	—
Women's footwear, except athletic .....	3144	37.7	38.1	35.8	37.4	—	1.4	1.3	1.7	1.8	—
Luggage .....	316	37.6	38.2	35.6	36.4	—	1.8	1.8	1.1	1.4	—
Handbags and personal leather goods .....	317	38.1	37.7	37.4	37.5	—	1.4	1.4	0.9	1.3	—
<b>Service-producing .....</b>		<b>32.7</b>	<b>33.1</b>	<b>32.6</b>	<b>32.8</b>	<b>33.0</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Transportation and public utilities .....</b>		<b>39.3</b>	<b>39.9</b>	<b>39.1</b>	<b>39.6</b>	<b>39.8</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	\$12.72	\$12.76	\$13.04	\$13.07	—	\$546.96	\$551.23	\$533.34	\$559.40	—
Corrugated and solid fiber boxes .....	2653	12.67	12.73	13.01	13.04	—	548.61	553.76	534.71	565.94	—
Sanitary food containers .....	2656	12.76	12.81	13.38	13.10	—	548.68	545.71	559.28	564.61	—
Folding paperboard boxes .....	2657	13.56	13.53	13.71	13.85	—	581.72	589.91	544.29	578.93	—
Misc. converted paper products .....	267	13.03	13.07	13.30	13.40	—	549.87	552.86	550.62	561.46	—
Paper, coated and laminated, nec .....	2672	14.83	14.81	15.36	15.30	—	637.69	644.24	655.87	656.37	—
Bags: plastics, laminated, and coated .....	2673	11.69	11.67	12.18	12.10	—	494.49	493.64	506.69	506.99	—
Envelopes .....	2677	11.78	11.83	12.14	12.44	—	494.76	490.95	494.10	501.33	—
Printing and publishing .....	27	12.93	12.89	13.32	13.32	\$13.31	492.63	489.82	503.50	507.49	\$507.11
Newspapers .....	271	12.80	12.88	13.14	13.07	—	427.52	425.04	432.31	432.62	—
Periodicals .....	272	14.31	14.32	14.58	14.71	—	513.73	526.98	519.05	526.62	—
Books .....	273	12.46	12.07	12.42	12.35	—	480.96	462.28	483.14	479.18	—
Book publishing .....	2731	12.26	11.42	11.80	11.63	—	460.98	422.54	440.14	440.78	—
Book printing .....	2732	12.70	12.83	13.06	13.12	—	506.73	514.48	532.85	522.18	—
Miscellaneous publishing .....	274	12.68	12.69	13.05	12.98	—	453.94	456.84	475.02	465.98	—
Commercial printing .....	275	13.10	13.05	13.58	13.59	—	520.07	514.17	535.05	540.88	—
Commercial printing, lithographic .....	2752	13.36	13.34	13.78	13.82	—	529.06	521.59	544.31	547.27	—
Commercial printing, nec .....	2759	12.41	12.29	12.91	12.94	—	492.68	487.91	507.36	518.89	—
Manifold business forms .....	276	13.58	13.76	13.96	14.05	—	555.42	571.04	562.59	570.43	—
Blankbooks and bookbinding .....	278	10.07	10.16	10.39	10.42	—	400.79	402.34	403.13	410.55	—
Printing trade services .....	279	16.01	16.09	16.85	16.80	—	634.00	637.16	668.95	672.00	—
Chemicals and allied products .....	28	16.48	16.54	17.15	17.11	17.04	710.29	712.87	735.74	734.02	736.13
Industrial inorganic chemicals .....	281	18.51	18.37	19.75	19.63	—	857.01	848.69	908.50	885.31	—
Industrial inorganic chemicals, nec .....	2819	18.72	18.59	20.29	20.29	—	868.61	858.86	921.17	898.85	—
Plastics materials and synthetics .....	282	17.28	17.34	17.98	17.85	—	746.50	754.29	794.72	769.34	—
Plastics materials and resins .....	2821	19.21	19.22	20.00	19.84	—	860.61	862.98	886.00	872.96	—
Organic fibers, noncellulosic .....	2824	14.72	14.94	15.22	14.80	—	613.82	628.97	692.51	631.96	—
Drugs .....	283	16.32	16.56	16.92	17.02	—	677.28	682.27	693.72	704.63	—
Pharmaceutical preparations .....	2834	16.18	16.43	16.82	16.93	—	673.09	678.56	684.57	702.60	—
Soap, cleaners, and toilet goods .....	284	13.16	13.08	13.75	13.74	—	539.56	540.20	556.88	566.09	—
Soap and other detergents .....	2841	16.63	16.55	17.48	17.32	—	705.11	703.38	732.41	743.03	—
Polishing, sanitation, and finishing preparations .....	2842,3	12.60	12.60	13.42	13.56	—	520.38	526.68	540.83	561.38	—
Toilet preparations .....	2844	11.78	11.68	12.16	12.13	—	474.73	474.21	486.40	490.05	—
Paints and allied products .....	285	14.03	14.14	14.23	14.39	—	600.48	605.19	601.93	621.65	—
Industrial organic chemicals .....	286	19.83	19.93	20.53	20.43	—	888.38	886.89	907.43	911.18	—
Cyclic crudes and intermediates .....	2865	19.67	20.25	20.43	20.35	—	889.08	941.63	856.02	889.30	—
Industrial organic chemicals, nec .....	2869	19.99	19.99	20.69	20.58	—	895.55	881.56	924.84	921.98	—
Agricultural chemicals .....	287	16.19	16.46	16.77	16.87	—	726.93	730.82	764.71	755.78	—
Miscellaneous chemical products .....	289	14.95	14.97	15.25	15.22	—	650.33	654.19	642.03	652.94	—
Petroleum and coal products .....	29	19.95	19.92	20.99	20.84	20.78	845.88	854.57	898.37	896.12	899.77
Petroleum refining .....	291	22.52	22.39	23.71	23.66	—	936.83	949.34	1,012.42	1,005.55	—
Asphalt paving and roofing materials .....	295	14.82	14.92	15.09	15.13	—	666.90	669.91	659.43	673.29	—
Rubber and misc. plastics products .....	30	11.50	11.52	11.84	11.84	11.87	479.55	480.38	485.44	496.10	499.73
Tires and inner tubes .....	301	18.57	18.69	19.11	18.72	—	798.51	807.41	821.73	795.60	—
Rubber and plastics footwear .....	302	9.65	9.55	10.00	10.25	—	403.37	395.37	387.00	391.55	—
Hose, belting, gaskets, and packing .....	305	11.64	11.66	11.78	11.93	—	500.52	495.55	480.62	504.64	—
Rubber and plastics hose and belting .....	3052	11.96	11.83	11.88	11.94	—	523.85	519.34	497.77	524.17	—
Fabricated rubber products, nec .....	306	11.09	11.17	11.44	11.53	—	465.78	473.61	466.75	490.03	—
Miscellaneous plastics products, nec .....	308	10.82	10.83	11.14	11.16	—	447.95	448.36	454.51	465.37	—
Leather and leather products .....	31	8.92	8.94	9.28	9.34	9.29	340.74	346.87	338.72	350.25	352.09
Leather tanning and finishing .....	311	11.87	11.90	11.96	11.99	—	503.29	503.37	480.79	491.59	—
Footwear, except rubber .....	314	8.41	8.42	8.81	8.89	—	313.69	320.80	310.11	323.60	—
Men's footwear, except athletic .....	3143	9.09	9.16	9.47	9.63	—	341.78	351.74	331.45	345.72	—
Women's footwear, except athletic .....	3144	7.41	7.33	7.68	7.65	—	279.36	279.27	274.94	286.11	—
Luggage .....	316	8.72	8.82	8.99	9.26	—	327.87	336.92	320.04	337.06	—
Handbags and personal leather goods .....	317	7.82	7.84	8.23	8.27	—	297.94	295.57	307.80	310.13	—
<b>Service-producing .....</b>		<b>11.62</b>	<b>11.62</b>	<b>12.20</b>	<b>12.17</b>	<b>12.12</b>	<b>379.97</b>	<b>384.62</b>	<b>397.72</b>	<b>399.18</b>	<b>399.96</b>
<b>Transportation and public utilities .....</b>		<b>14.76</b>	<b>14.82</b>	<b>15.27</b>	<b>15.21</b>	<b>15.19</b>	<b>580.07</b>	<b>591.32</b>	<b>597.06</b>	<b>602.32</b>	<b>604.56</b>

See footnotes at end of table.



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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	48.5	49.4	48.4	47.9	-	-	-	-	-	-
Local and interurban passenger transit .....	41	34.9	34.4	33.4	35.0	-	-	-	-	-	-
Local and suburban transportation .....	411	38.4	38.6	38.5	38.9	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	38.0	38.1	38.4	37.8	-	-	-	-	-	-
Trucking and warehousing .....	42	40.1	40.7	39.2	40.0	-	-	-	-	-	-
Trucking and courier services, except air .....	421	40.2	40.7	39.2	40.0	-	-	-	-	-	-
Public warehousing and storage .....	422	39.5	40.1	39.2	39.5	-	-	-	-	-	-
Water transportation:											
Water transportation services .....	449	37.8	38.2	38.3	37.1	-	-	-	-	-	-
Pipelines, except natural gas .....	46	43.2	44.1	44.1	42.8	-	-	-	-	-	-
Transportation services .....	47	38.1	38.6	37.5	37.9	-	-	-	-	-	-
Passenger transportation arrangement .....	472	37.8	38.1	37.6	37.8	-	-	-	-	-	-
Travel agencies .....	4724	37.5	38.2	37.8	38.0	-	-	-	-	-	-
Freight transportation arrangement .....	473	38.4	39.3	37.1	37.4	-	-	-	-	-	-
Communications .....	48	39.8	40.5	40.3	40.6	-	-	-	-	-	-
Telephone communications .....	481	41.4	42.0	41.9	42.1	-	-	-	-	-	-
Telephone communications, except radio .....	4813	41.9	42.3	42.2	42.6	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.1	35.9	35.5	35.4	-	-	-	-	-	-
Cable and other pay television services .....	484	38.7	39.2	39.8	40.2	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	42.0	42.2	41.6	41.9	-	-	-	-	-	-
Electric services .....	491	41.7	42.2	41.4	41.7	-	-	-	-	-	-
Gas production and distribution .....	492	41.8	42.2	41.2	41.1	-	-	-	-	-	-
Combination utility services .....	493	43.3	42.5	41.8	43.1	-	-	-	-	-	-
Sanitary services .....	495	41.7	42.0	42.2	42.3	-	-	-	-	-	-
<b>Wholesale trade</b> .....		<b>38.5</b>	<b>38.7</b>	<b>38.1</b>	<b>38.4</b>	<b>38.3</b>	-	-	-	-	-
Durable goods .....	50	39.1	39.5	38.7	38.9	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	38.0	38.1	37.1	37.5	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.2	37.5	37.4	37.3	-	-	-	-	-	-
Lumber and other construction materials .....	503	40.4	40.5	39.6	39.8	-	-	-	-	-	-
Professional and commercial equipment .....	504	39.3	40.2	39.3	39.5	-	-	-	-	-	-
Medical and hospital equipment .....	5047	39.5	40.0	39.1	39.4	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	41.7	42.2	40.6	40.8	-	-	-	-	-	-
Electrical goods .....	506	39.2	39.2	38.9	39.1	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	39.2	39.5	39.0	39.2	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.4	39.8	39.3	39.5	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	38.2	38.1	37.0	37.1	-	-	-	-	-	-
Nondurable goods .....	51	37.6	37.7	37.2	37.6	-	-	-	-	-	-
Paper and paper products .....	511	36.0	36.4	36.5	36.8	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	36.0	36.4	36.2	36.3	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.6	36.8	36.7	36.9	-	-	-	-	-	-
Groceries and related products .....	514	38.6	38.7	38.1	38.6	-	-	-	-	-	-
Farm-product raw materials .....	515	35.8	35.4	33.8	34.8	-	-	-	-	-	-
Chemicals and allied products .....	516	40.2	40.6	39.3	40.2	-	-	-	-	-	-
Petroleum and petroleum products .....	517	37.8	38.2	37.2	37.5	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	38.0	38.1	37.7	37.9	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	37.3	37.0	36.5	36.8	-	-	-	-	-	-
<b>Retail trade</b> .....		<b>28.8</b>	<b>29.4</b>	<b>28.7</b>	<b>29.0</b>	<b>29.3</b>	-	-	-	-	-
Building materials and garden supplies .....	52	35.1	35.5	34.8	35.2	-	-	-	-	-	-
Lumber and other building materials .....	521	36.6	36.9	36.3	36.8	-	-	-	-	-	-
Paint, glass, and wallpaper stores .....	523	36.0	36.3	35.7	36.0	-	-	-	-	-	-
Hardware stores .....	525	31.0	31.9	30.6	31.1	-	-	-	-	-	-
Retail nurseries and garden stores .....	526	32.9	32.5	31.6	32.9	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	\$18.05	\$17.90	\$18.25	\$18.23	—	\$875.43	\$884.26	\$883.30	\$873.22	—
Local and interurban passenger transit .....	41	10.78	10.81	11.08	10.95	—	376.22	371.86	370.07	383.25	—
Local and suburban transportation .....	411	11.32	11.23	11.61	11.47	—	434.69	433.48	446.99	446.18	—
Intercity and rural bus transportation .....	413	13.23	13.37	13.15	12.90	—	502.74	509.40	504.96	487.62	—
Trucking and warehousing .....	42	13.18	13.14	13.60	13.62	—	528.52	534.80	533.12	544.80	—
Trucking and courier services, except air .....	421	13.38	13.34	13.83	13.85	—	537.88	542.94	542.14	554.00	—
Public warehousing and storage .....	422	10.94	10.89	11.13	11.10	—	432.13	436.69	436.30	438.45	—
Water transportation:											
Water transportation services .....	449	18.93	18.57	20.46	19.98	—	715.55	709.37	783.62	741.26	—
Pipelines, except natural gas .....	46	20.61	20.27	20.34	20.76	—	890.35	893.91	896.99	888.53	—
Transportation services .....	47	13.07	13.14	13.61	13.44	—	497.97	507.20	510.38	509.38	—
Passenger transportation arrangement .....	472	13.10	13.33	14.12	13.81	—	495.18	507.87	530.91	522.02	—
Travel agencies .....	4724	13.52	13.62	14.56	14.09	—	507.00	520.28	550.37	535.42	—
Freight transportation arrangement .....	473	13.27	13.23	13.33	13.30	—	509.57	519.94	494.54	497.42	—
Communications .....	48	16.60	16.90	16.99	16.98	—	660.68	684.45	684.70	689.39	—
Telephone communications .....	481	17.15	17.47	17.43	17.47	—	710.01	733.74	730.32	735.49	—
Telephone communications, except radio .....	4813	17.63	17.99	17.91	17.92	—	738.70	760.98	755.80	763.39	—
Radio and television broadcasting .....	483	16.80	17.13	17.68	17.53	—	589.68	614.97	627.64	620.56	—
Cable and other pay television services .....	484	13.24	13.45	13.77	13.74	—	512.39	527.24	548.05	552.35	—
Electric, gas, and sanitary services .....	49	18.95	19.00	19.85	19.87	—	795.90	801.80	825.76	832.55	—
Electric services .....	491	19.99	19.92	20.98	20.84	—	833.58	840.62	868.57	869.03	—
Gas production and distribution .....	492	17.78	17.93	18.65	18.43	—	743.20	756.65	768.38	757.47	—
Combination utility services .....	493	23.07	23.11	23.88	24.24	—	998.93	982.18	998.18	1,044.74	—
Sanitary services .....	495	14.34	14.75	15.50	15.64	—	597.98	619.50	654.10	661.57	—
<b>Wholesale trade</b> .....		13.33	13.37	13.90	13.94	\$13.84	513.21	517.42	529.59	535.30	\$530.07
Durable goods .....											
Motor vehicles, parts, and supplies .....	50	13.91	13.91	14.52	14.54	—	543.88	549.45	561.92	565.61	—
Furniture and home furnishings .....	501	12.13	12.03	12.94	12.92	—	460.94	458.34	480.07	484.50	—
Lumber and other construction materials .....	502	12.45	12.47	12.91	13.05	—	463.14	467.63	482.83	486.77	—
Professional and commercial equipment .....	503	12.56	12.63	13.02	13.07	—	507.42	511.52	515.59	520.19	—
Medical and hospital equipment .....	504	16.54	16.51	17.15	17.11	—	650.02	663.70	674.00	675.85	—
Metals and minerals, except petroleum .....	5047	15.90	15.91	17.09	17.02	—	628.05	636.40	668.22	670.59	—
Electrical goods .....	505	13.39	13.38	13.94	13.99	—	558.36	564.64	565.96	570.79	—
Hardware, plumbing, and heating equipment .....	506	15.04	15.03	15.75	15.65	—	589.57	589.18	612.68	611.92	—
Machinery, equipment, and supplies .....	507	13.10	13.14	13.55	13.73	—	513.52	519.03	528.45	538.22	—
Misc. wholesale trade durable goods .....	508	14.00	14.00	14.52	14.63	—	551.60	557.20	570.64	577.89	—
Nondurable goods .....	509	10.80	10.87	11.37	11.38	—	412.56	414.15	420.69	422.20	—
Paper and paper products .....	51	12.49	12.57	13.00	13.06	—	469.62	473.89	483.60	491.06	—
Drugs, proprietaries, and sundries .....	511	12.61	12.70	13.45	13.46	—	453.96	462.28	490.93	495.33	—
Apparel, piece goods, and notions .....	512	16.28	16.57	16.89	17.25	—	586.08	603.15	611.42	626.18	—
Groceries and related products .....	513	12.43	12.46	12.89	12.86	—	454.94	458.53	473.06	474.53	—
Farm-product raw materials .....	514	12.78	12.86	13.22	13.31	—	493.31	497.68	503.68	513.77	—
Chemicals and allied products .....	515	9.66	9.58	9.92	10.01	—	345.83	339.13	335.30	348.35	—
Petroleum and petroleum products .....	516	14.16	14.15	14.76	14.71	—	569.23	574.49	580.07	591.34	—
Bear, wine, and distilled beverages .....	517	11.58	11.55	11.90	11.86	—	437.72	441.21	442.68	444.75	—
Misc. wholesale trade nondurable goods .....	518	14.57	14.66	15.32	15.26	—	553.66	558.55	577.56	578.35	—
<b>Retail trade</b> .....	519	8.27	8.27	8.70	8.71	8.68	238.18	243.14	249.69	252.59	254.32
Building materials and garden supplies .....	52	9.75	9.73	10.11	10.12	—	342.23	345.42	351.83	356.22	—
Paint, glass, and wallpaper stores .....	521	10.21	10.13	10.54	10.56	—	373.69	373.80	382.60	388.61	—
Hardware stores .....	523	10.31	10.28	10.43	10.54	—	371.16	373.16	372.35	379.44	—
Retail nurseries and garden stores .....	525	8.26	8.22	8.58	8.55	—	256.06	262.22	262.55	265.91	—
	526	8.47	8.61	8.95	8.85	—	278.66	279.83	282.82	291.17	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	29.4	30.0	29.2	29.9	-	-	-	-	-	-
Department stores .....	531	29.4	30.1	29.3	30.0	-	-	-	-	-	-
Variety stores .....	533	26.9	27.6	27.2	27.4	-	-	-	-	-	-
Misc. general merchandise stores .....	539	30.1	30.6	30.1	30.2	-	-	-	-	-	-
Food stores .....	54	29.6	30.3	29.5	29.8	-	-	-	-	-	-
Grocery stores .....	541	29.8	30.5	29.6	29.9	-	-	-	-	-	-
Retail bakeries .....	546	28.4	28.9	28.8	29.2	-	-	-	-	-	-
Automotive dealers and service stations .....	55	35.6	36.1	35.4	35.5	-	-	-	-	-	-
New and used car dealers .....	551	36.9	37.2	36.9	36.9	-	-	-	-	-	-
Auto and home supply stores .....	553	37.9	38.4	37.9	38.2	-	-	-	-	-	-
Gasoline service stations .....	554	32.2	32.9	31.6	31.8	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.2	36.0	35.3	35.1	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.4	27.0	26.4	26.3	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	28.5	29.0	28.1	28.2	-	-	-	-	-	-
Women's clothing stores .....	562	24.9	25.3	24.5	24.1	-	-	-	-	-	-
Family clothing stores .....	565	27.0	27.8	27.2	27.1	-	-	-	-	-	-
Shoe stores .....	566	26.0	26.8	25.8	26.3	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	32.7	33.4	32.6	33.0	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	32.7	33.2	32.4	32.8	-	-	-	-	-	-
Household appliance stores .....	572	34.0	34.7	33.9	34.0	-	-	-	-	-	-
Radio, television, and computer stores .....	573	32.4	33.3	32.5	33.0	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	32.4	33.1	32.3	32.3	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	25.0	26.0	25.7	26.3	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.3	25.8	25.2	25.5	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	29.6	29.8	29.2	29.6	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	28.7	29.2	28.6	28.6	-	-	-	-	-	-
Used merchandise stores .....	593	30.7	30.7	30.1	30.3	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	27.8	28.6	27.4	27.8	-	-	-	-	-	-
Nonstore retailers .....	596	32.3	32.2	31.9	32.5	-	-	-	-	-	-
Fuel dealers .....	598	37.2	37.2	36.8	36.8	-	-	-	-	-	-
Retail stores, nec .....	599	31.2	30.5	30.5	31.6	-	-	-	-	-	-
Optical goods stores .....	5995	33.0	33.3	33.3	33.5	-	-	-	-	-	-
Miscellaneous retail stores, nec .....	5999	30.5	30.9	30.6	31.3	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		35.9	36.7	36.1	36.1	36.1	-	-	-	-	-
Depository institutions .....	60	34.9	36.1	35.1	35.0	-	-	-	-	-	-
Commercial banks .....	602	34.5	35.9	34.8	34.8	-	-	-	-	-	-
State commercial banks .....	6022	34.8	36.2	35.0	34.7	-	-	-	-	-	-
National and commercial banks, nec .....	6021,9	34.3	35.7	34.7	34.8	-	-	-	-	-	-
Credit unions .....	606	35.8	36.5	35.6	35.7	-	-	-	-	-	-
Nondepository institutions .....	61	37.7	39.2	38.0	38.0	-	-	-	-	-	-
Personal credit institutions .....	614	38.1	39.8	38.0	38.2	-	-	-	-	-	-
Security and commodity brokers: Security and commodity services .....	628	37.8	38.8	38.4	38.1	-	-	-	-	-	-
Insurance carriers .....	63	38.3	38.7	38.8	39.0	-	-	-	-	-	-
Life insurance .....	631	37.8	38.6	39.0	38.9	-	-	-	-	-	-
Medical service and health insurance .....	632	38.9	39.1	38.9	39.2	-	-	-	-	-	-
Hospital and medical service plans .....	6324	39.2	39.4	39.4	39.8	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	38.5	38.5	38.7	39.2	-	-	-	-	-	-
<b>Services</b> .....		32.4	32.8	32.4	32.5	32.7	-	-	-	-	-
Agricultural services .....	07	35.6	35.9	34.9	35.9	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	\$8.08	\$8.12	\$8.72	\$8.65	—	\$237.55	\$243.60	\$254.62	\$258.64	—
Department stores .....	531	8.13	8.17	8.79	8.72	—	239.02	245.92	257.55	261.60	—
Variety stores .....	533	7.32	7.38	7.81	7.73	—	196.91	203.69	212.43	211.80	—
Misc. general merchandise stores .....	539	7.91	7.95	8.34	8.30	—	238.09	243.27	251.03	250.66	—
Food stores .....	54	8.66	8.62	8.99	9.01	—	256.34	261.19	265.21	268.50	—
Grocery stores .....	541	8.77	8.73	9.09	9.11	—	261.35	266.27	269.06	272.39	—
Retail bakeries .....	546	7.67	7.60	8.00	8.08	—	217.83	219.64	230.40	235.94	—
Automotive dealers and service stations .....	55	11.39	11.45	12.04	12.14	—	405.48	413.35	426.22	430.97	—
New and used car dealers .....	551	14.38	14.54	15.16	15.36	—	530.62	540.89	559.40	566.78	—
Auto and home supply stores .....	553	9.48	9.48	9.90	9.97	—	359.29	364.03	375.21	380.85	—
Gasoline service stations .....	554	7.39	7.40	7.77	7.76	—	237.96	243.46	245.53	246.77	—
Automotive dealers, nec .....	559	12.57	12.75	12.58	13.36	—	442.46	459.00	444.07	468.94	—
Apparel and accessory stores .....	56	8.08	8.09	8.39	8.44	—	213.31	218.43	221.50	221.97	—
Men's and boys' clothing stores .....	561	9.68	9.80	10.13	10.33	—	275.88	284.20	284.65	291.31	—
Women's clothing stores .....	562	7.92	7.86	8.21	8.30	—	197.21	198.86	201.15	200.03	—
Family clothing stores .....	565	7.83	7.88	8.19	8.25	—	211.41	219.06	222.77	223.58	—
Shoe stores .....	566	8.00	8.04	8.31	8.24	—	208.00	215.47	214.40	216.71	—
Furniture and home furnishings stores .....	57	11.04	11.25	11.71	11.75	—	361.01	375.75	381.75	387.75	—
Furniture and home furnishings stores .....	571	10.36	10.48	11.00	11.10	—	338.77	347.94	356.40	364.08	—
Household appliance stores .....	572	10.41	10.64	11.07	11.21	—	353.94	369.21	375.27	381.14	—
Radio, television, and computer stores .....	573	12.00	12.29	12.66	12.61	—	388.80	409.26	411.45	416.13	—
Radio, television, and electronic stores .....	5731	10.82	11.13	11.69	11.65	—	350.57	368.40	377.59	376.30	—
Record and prerecorded tape stores .....	5735	6.99	7.00	7.15	7.19	—	174.75	182.00	183.76	189.10	—
Eating and drinking places <sup>4</sup> .....	58	5.99	5.98	6.29	6.31	—	151.55	154.28	158.51	160.91	—
Miscellaneous retail establishments .....	59	9.09	9.09	9.41	9.43	—	269.06	270.88	274.77	279.13	—
Drug stores and proprietary stores .....	591	9.74	9.70	10.00	10.10	—	279.54	283.24	286.00	288.86	—
Used merchandise stores .....	593	7.51	7.55	7.86	7.84	—	230.56	231.79	236.59	237.55	—
Miscellaneous shopping goods stores .....	594	8.38	8.41	8.69	8.72	—	232.96	240.53	238.11	242.42	—
Nonstore retailers .....	596	9.69	9.71	10.01	10.02	—	312.99	312.66	319.32	325.65	—
Fuel dealers .....	598	12.04	12.06	12.65	12.44	—	447.89	448.63	465.52	457.79	—
Retail stores, nec .....	599	9.13	9.15	9.47	9.47	—	284.86	279.08	288.84	299.25	—
Optical goods stores .....	5995	11.30	11.30	10.98	11.06	—	372.90	376.29	365.63	370.51	—
Miscellaneous retail stores, nec .....	5999	9.50	9.41	9.93	9.91	—	289.75	290.77	303.86	310.18	—
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>13.21</b>	<b>13.26</b>	<b>13.98</b>	<b>13.98</b>	<b>\$13.95</b>	<b>474.24</b>	<b>486.64</b>	<b>504.68</b>	<b>504.68</b>	<b>\$503.60</b>
Depository institutions .....	60	10.27	10.19	10.71	10.74	—	358.42	367.86	375.92	375.90	—
Commercial banks .....	602	9.80	9.71	10.22	10.29	—	338.10	348.59	355.66	358.09	—
State commercial banks .....	6022	9.65	9.61	10.10	10.13	—	335.82	347.88	353.50	351.51	—
National and commercial banks, nec .....	6021,9	9.91	9.77	10.30	10.40	—	339.91	348.79	357.41	361.92	—
Credit unions .....	606	10.10	10.10	10.54	10.54	—	361.58	368.65	375.22	376.28	—
Nondepository institutions .....	61	13.56	13.65	14.51	14.44	—	511.21	535.08	551.38	548.72	—
Personal credit institutions .....	614	11.71	11.84	12.22	12.33	—	446.15	471.23	464.36	471.01	—
Security and commodity brokers:											
Security and commodity services .....	628	18.55	18.74	20.36	20.72	—	701.19	727.11	781.82	789.43	—
Insurance carriers .....	63	15.59	15.76	16.60	16.57	—	597.10	609.91	644.08	646.23	—
Life insurance .....	631	14.19	14.07	14.99	15.12	—	536.38	543.10	584.61	588.17	—
Medical service and health insurance .....	632	14.62	15.01	15.63	15.50	—	568.72	586.89	608.01	607.60	—
Hospital and medical service plans .....	6324	14.90	15.33	15.97	15.79	—	584.08	604.00	629.22	628.44	—
Fire, marine, and casualty insurance .....	633	17.04	17.33	18.25	18.07	—	656.04	667.21	706.28	708.34	—
<b>Services</b> .....		<b>12.16</b>	<b>12.14</b>	<b>12.77</b>	<b>12.75</b>	<b>12.69</b>	<b>393.98</b>	<b>398.19</b>	<b>413.75</b>	<b>414.38</b>	<b>414.96</b>
Agricultural services .....	07	9.29	9.26	9.76	9.81	—	330.72	332.43	340.62	352.18	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	28.9	29.5	28.9	28.9	-	-	-	-	-	-
Landscape and horticultural services .....	078	38.3	38.5	37.6	38.7	-	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	30.8	31.4	31.1	31.2	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.6	34.5	34.2	34.8	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	28.1	28.1	28.1	28.3	-	-	-	-	-	-
Miscellaneous personal services .....	729	27.2	27.2	26.3	27.2	-	-	-	-	-	-
Business services .....											
Advertising .....	731	36.4	37.1	36.5	36.6	-	-	-	-	-	-
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	36.2	36.8	36.1	35.9	-	-	-	-	-	-
Services to buildings .....	734	28.8	28.9	28.5	28.4	-	-	-	-	-	-
Disinfecting and pest control services .....	7342	36.5	37.0	37.2	37.6	-	-	-	-	-	-
Building maintenance services, nec .....	7349	28.0	28.1	27.6	27.5	-	-	-	-	-	-
Miscellaneous equipment rental and leasing .....	735	39.7	39.8	38.5	39.1	-	-	-	-	-	-
Medical equipment rental .....	7352	37.6	37.1	36.7	36.1	-	-	-	-	-	-
Heavy construction equipment rental .....	7353	40.6	40.6	40.5	41.4	-	-	-	-	-	-
Equipment rental and leasing, nec .....	7359	40.0	40.2	38.3	39.0	-	-	-	-	-	-
Personnel supply services:											
Help supply services .....	7363	32.4	32.0	31.6	32.9	-	-	-	-	-	-
Computer and data processing services .....	737	38.1	38.6	38.2	38.3	-	-	-	-	-	-
Computer programming services .....	7371	38.4	38.5	37.7	37.9	-	-	-	-	-	-
Computer integrated systems design .....	7373	38.6	39.6	39.7	39.6	-	-	-	-	-	-
Information retrieval services .....	7375	37.3	37.4	38.4	37.8	-	-	-	-	-	-
Computer maintenance and repair .....	7378	38.7	39.0	38.7	39.0	-	-	-	-	-	-
Miscellaneous business services .....	738	33.0	33.2	32.8	33.1	-	-	-	-	-	-
Detective and armored car services .....	7381	34.3	34.6	34.2	34.5	-	-	-	-	-	-
Security systems services .....	7382	35.5	35.7	35.7	35.8	-	-	-	-	-	-
Auto repair, services, and parking .....											
Automotive rentals, without drivers .....	751	36.0	37.0	37.0	37.0	-	-	-	-	-	-
Passenger car rental .....	7514	36.1	37.2	37.3	37.1	-	-	-	-	-	-
Automobile parking .....	752	33.2	34.2	32.1	32.1	-	-	-	-	-	-
Automotive repair shops .....	753	38.2	38.4	37.8	37.9	-	-	-	-	-	-
Automotive and tire repair shops .....	7532,4	37.9	38.0	37.9	38.0	-	-	-	-	-	-
General automotive repair shops .....	7538	37.5	38.1	37.6	37.7	-	-	-	-	-	-
Automotive services, except repair .....	754	32.0	32.6	30.0	31.1	-	-	-	-	-	-
Carwashes .....	7542	29.5	30.1	26.7	28.3	-	-	-	-	-	-
Miscellaneous repair services .....											
Motion pictures .....	78	28.9	29.6	29.2	28.9	-	-	-	-	-	-
Motion picture production and services .....	781	38.8	38.5	38.2	38.6	-	-	-	-	-	-
Video tape rental .....	784	23.6	24.6	23.0	23.2	-	-	-	-	-	-
Amusement and recreation services .....											
Bowling centers .....	793	23.9	24.1	24.7	24.1	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	26.0	27.5	25.9	25.7	-	-	-	-	-	-
Physical fitness facilities .....	7991	18.7	19.2	18.8	19.6	-	-	-	-	-	-
Membership sports and recreation clubs .....	7997	28.4	29.3	28.1	28.1	-	-	-	-	-	-
Health services .....											
Offices and clinics of medical doctors .....	801	33.0	33.4	32.9	32.9	-	-	-	-	-	-
Offices and clinics of dentists .....	802	28.6	28.6	28.1	28.2	-	-	-	-	-	-
Offices and clinics of other health practitioners .....	804	30.1	30.4	29.8	30.3	-	-	-	-	-	-
Nursing and personal care facilities .....	805	32.0	32.7	32.4	32.2	-	-	-	-	-	-
Intermediate care facilities .....	8052	31.6	32.3	31.7	31.5	-	-	-	-	-	-
Hospitals .....	806	34.7	34.9	34.9	35.0	-	-	-	-	-	-

See footnotes at end of table.

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	\$9.47	\$9.43	\$9.90	\$9.91	—	\$273.68	\$278.19	\$286.11	\$286.40	—
Landscape and horticultural services .....	078	9.27	9.24	9.76	9.83	—	355.04	355.74	366.98	380.42	—
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	8.47	8.43	8.90	8.93	—	260.88	264.70	276.79	278.62	—
Personal services:											
Laundry, cleaning, and garment services .....	721	7.98	8.05	8.32	8.36	—	276.11	277.73	284.54	290.93	—
Beauty shops <sup>4</sup> .....	723	9.16	9.23	9.33	9.45	—	257.40	259.36	262.17	267.44	—
Miscellaneous personal services .....	729	8.96	8.73	8.66	9.44	—	243.71	237.46	227.76	256.77	—
Business services											
Advertising .....	731	11.76	11.79	12.45	12.46	—	392.78	394.97	412.10	418.66	—
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	10.92	10.90	11.12	11.17	—	395.30	401.12	401.43	401.00	—
Services to buildings .....	734	7.88	7.90	8.20	8.28	—	226.94	228.31	233.70	235.15	—
Disinfecting and pest control services .....	7342	10.51	10.79	11.15	11.25	—	383.62	399.23	414.78	423.00	—
Building maintenance services, nec .....	7349	7.56	7.54	7.81	7.88	—	211.68	211.87	215.56	216.70	—
Miscellaneous equipment rental and leasing .....	735	11.80	11.78	12.48	12.49	—	468.46	468.84	480.48	488.36	—
Medical equipment rental .....	7352	11.25	10.92	12.22	12.26	—	423.00	405.13	448.47	442.59	—
Heavy construction equipment rental .....	7353	15.64	15.63	16.18	16.23	—	634.98	634.58	655.29	671.92	—
Equipment rental and leasing, nec .....	7359	10.83	10.86	11.40	11.43	—	433.20	436.57	436.62	445.77	—
Personnel supply services:											
Help supply services .....	7363	9.69	9.62	10.14	10.20	—	313.96	307.84	320.42	335.58	—
Computer and data processing services .....	737	19.85	20.11	20.89	20.93	—	756.29	776.25	798.00	801.62	—
Computer programming services .....	7371	22.70	23.09	24.12	24.21	—	871.68	888.97	909.32	917.56	—
Computer integrated systems design .....	7373	20.41	20.55	20.86	20.86	—	787.83	813.78	828.14	826.06	—
Information retrieval services .....	7375	15.18	15.21	15.86	15.81	—	566.21	568.85	609.02	597.62	—
Computer maintenance and repair .....	7378	14.68	14.62	15.82	16.12	—	568.12	570.18	612.23	628.68	—
Miscellaneous business services .....	738	9.71	9.69	10.09	10.14	—	320.43	321.71	330.95	335.63	—
Detective and armored car services .....	7381	7.74	7.80	8.17	8.19	—	265.48	269.88	279.41	282.56	—
Security systems services .....	7382	12.10	12.34	13.38	13.33	—	429.55	440.54	477.67	477.21	—
Auto repair, services, and parking											
Automotive rentals, without drivers .....	751	9.90	9.96	10.45	10.50	—	356.40	368.52	386.65	388.50	—
Passenger car rental .....	7514	8.91	8.96	9.53	9.57	—	321.65	333.31	355.47	355.05	—
Automobile parking .....	752	7.50	7.62	8.13	8.12	—	249.00	260.60	260.97	260.65	—
Automotive repair shops .....	753	11.86	11.84	12.32	12.40	—	453.05	454.66	465.70	469.96	—
Automotive and tire repair shops .....	7532,4	12.46	12.39	12.89	12.96	—	472.23	470.82	488.53	492.48	—
General automotive repair shops .....	7538	11.83	11.89	12.27	12.35	—	443.63	453.01	461.35	465.60	—
Automotive services, except repair .....	754	7.89	7.87	8.35	8.42	—	252.48	256.56	250.50	261.86	—
Carwashes .....	7542	6.90	6.92	7.36	7.45	—	203.55	208.29	196.51	210.84	—
Miscellaneous repair services .....	76	12.60	12.62	13.17	13.16	—	483.84	489.66	503.09	507.98	—
Motion pictures											
Motion picture production and services .....	781	18.82	18.70	19.97	19.56	—	730.22	719.95	762.85	755.02	—
Video tape rental .....	784	6.50	6.43	7.31	7.39	—	153.40	158.18	168.13	171.45	—
Amusement and recreation services											
Bowling centers .....	793	7.50	7.65	7.53	7.75	—	179.25	184.37	185.99	186.78	—
Misc. amusement and recreation services .....	799	8.54	8.18	8.98	8.88	—	222.04	224.95	232.58	228.22	—
Physical fitness facilities .....	7991	8.44	8.38	8.80	8.74	—	157.83	160.90	165.44	171.30	—
Membership sports and recreation clubs .....	7997	8.91	8.55	9.55	9.35	—	253.04	250.52	268.36	262.74	—
Health services											
Offices and clinics of medical doctors .....	801	13.69	13.68	14.21	14.24	—	451.77	456.91	467.51	468.50	—
Offices and clinics of dentists .....	802	13.56	13.60	14.09	14.05	—	387.82	388.96	395.93	396.21	—
Offices and clinics of other health practitioners .....	804	12.38	12.43	13.24	13.18	—	372.64	377.87	394.55	399.35	—
Nursing and personal care facilities .....	805	9.28	9.25	9.70	9.70	—	296.96	302.48	314.28	312.34	—
Intermediate care facilities .....	8052	8.72	8.70	9.18	9.18	—	275.55	281.01	291.01	289.17	—
Hospitals .....	806	14.93	14.95	15.37	15.35	—	518.07	521.76	536.41	537.25	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		May 1997	June 1997	Apr. 1998	May 1998P	June 1998P	May 1997	June 1997	Apr. 1998	May 1998P	June 1998P
<b>Services—Continued</b>											
<b>Health services—Continued</b>											
Home health care services .....	808	28.8	29.1	29.0	29.0	-	-	-	-	-	-
Legal services .....	81	34.6	35.6	34.7	34.7	-	-	-	-	-	-
Social services .....	83	31.1	31.5	31.1	31.2	-	-	-	-	-	-
Individual and family services .....	832	31.2	31.8	31.1	31.1	-	-	-	-	-	-
Job training and related services .....	833	31.0	31.0	30.5	30.8	-	-	-	-	-	-
Child day care services .....	835	30.0	30.3	29.8	29.9	-	-	-	-	-	-
Residential care .....	836	31.8	32.4	32.1	32.0	-	-	-	-	-	-
Social services, nec .....	839	31.8	31.7	32.1	32.5	-	-	-	-	-	-
<b>Membership organizations:</b>											
Professional organizations .....	862	35.1	35.2	34.8	34.8	-	-	-	-	-	-
<b>Engineering and management services</b>											
Engineering and architectural services .....	87	37.1	37.6	37.4	37.1	-	-	-	-	-	-
Engineering services .....	871	39.3	39.8	39.1	39.4	-	-	-	-	-	-
Architectural services .....	8711	39.6	40.1	39.4	39.7	-	-	-	-	-	-
Surveying services .....	8712	38.3	39.0	38.3	38.3	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	8713	38.1	38.2	38.1	38.5	-	-	-	-	-	-
Research and testing services .....	872	35.7	36.0	38.7	35.8	-	-	-	-	-	-
Commercial physical research .....	873	36.8	37.3	36.0	36.4	-	-	-	-	-	-
Commercial nonphysical research .....	8731	39.9	40.7	39.8	40.1	-	-	-	-	-	-
Noncommercial research organizations .....	8732	31.3	31.5	29.5	29.9	-	-	-	-	-	-
Management and public relations .....	8733	36.5	37.3	35.5	35.9	-	-	-	-	-	-
Management services .....	874	35.9	36.4	35.7	36.0	-	-	-	-	-	-
Management consulting services .....	8741	35.1	35.4	34.7	35.3	-	-	-	-	-	-
Public relations services .....	8742	36.2	36.8	36.1	36.4	-	-	-	-	-	-
Services, nec .....	8743	35.1	36.0	35.0	35.1	-	-	-	-	-	-
Services, nec .....	89	35.4	36.4	34.2	34.6	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	\$11.29	\$11.33	\$11.42	\$11.40	—	\$325.15	\$329.70	\$331.18	\$330.60	—
Legal services .....	81	17.10	17.39	17.75	17.82	—	591.66	619.08	615.93	618.35	—
Social services .....	83	8.73	8.80	9.08	9.10	—	271.50	277.20	282.39	283.92	—
Individual and family services .....	832	9.24	9.37	9.59	9.63	—	288.29	297.97	298.25	299.49	—
Job training and related services .....	833	8.46	8.48	8.78	8.80	—	262.26	262.88	267.79	271.04	—
Child day care services .....	835	7.50	7.45	7.83	7.83	—	225.00	225.74	233.33	234.12	—
Residential care .....	836	8.87	8.89	9.21	9.21	—	282.07	288.04	295.64	294.72	—
Social services, nec .....	839	10.61	11.00	11.04	11.01	—	337.40	348.70	354.38	357.83	—
Membership organizations:											
Professional organizations .....	862	17.25	17.56	18.21	18.23	—	605.48	618.11	633.71	634.40	—
Engineering and management services .....	87	16.98	17.09	17.70	17.74	—	629.96	642.58	661.98	658.15	—
Engineering and architectural services .....	871	18.82	18.81	19.53	19.46	—	739.63	748.64	763.62	766.72	—
Engineering services .....	8711	19.67	19.66	20.40	20.28	—	778.93	788.37	803.76	805.12	—
Architectural services .....	8712	16.78	16.79	17.54	17.62	—	642.67	654.81	671.78	674.85	—
Surveying services .....	8713	13.36	13.33	13.62	13.74	—	509.02	509.21	518.92	528.99	—
Accounting, auditing, and bookkeeping .....	872	14.49	14.78	15.07	15.20	—	517.29	532.08	583.21	544.16	—
Research and testing services .....	873	17.54	17.62	18.35	18.33	—	645.47	657.23	660.60	667.21	—
Commercial physical research .....	8731	19.73	19.84	20.18	20.26	—	787.23	807.49	803.16	812.43	—
Commercial nonphysical research .....	8732	13.48	13.58	14.84	14.90	—	421.92	427.77	437.78	445.51	—
Noncommercial research organizations .....	8733	20.71	20.68	21.76	21.51	—	755.92	771.36	772.48	772.21	—
Management and public relations .....	874	16.04	16.17	17.13	17.03	—	575.84	588.59	611.54	613.08	—
Management services .....	8741	14.46	14.61	15.45	15.33	—	507.55	517.19	536.12	541.15	—
Management consulting services .....	8742	18.14	18.21	19.16	19.08	—	656.67	670.13	691.68	694.51	—
Public relations services .....	8743	14.81	14.99	15.85	15.85	—	519.83	539.64	554.75	556.34	—
Services, nec .....	89	16.80	16.65	17.64	17.57	—	594.72	606.06	603.29	607.92	—

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

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

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

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

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

— Data not available.

<sup>P</sup> = preliminary.

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



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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Apr. 1997	May 1997	Apr. 1998	May 1998P	Apr. 1997	May 1997	Apr. 1998	May 1998P
Average hourly earnings, excluding lump-sum payments .....	\$20.65	\$20.50	\$20.62	\$20.84	\$20.53	\$20.51	\$20.81	\$20.97
Average hourly earnings, including lump-sum payments .....	21.02	20.81	20.67	20.91	20.53	20.51	21.03	21.19

P = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Manufacturing</b> .....	\$12.39	\$12.40	\$12.83	\$12.76	\$12.73
<b>Durable goods</b> .....	12.88	12.89	13.29	13.22	13.17
Lumber and wood products .....	10.16	10.22	10.47	10.48	(2)
Furniture and fixtures .....	10.07	10.10	10.43	10.37	(2)
Stone, clay, and glass products .....	12.25	12.27	12.76	12.62	(2)
Primary metal industries .....	14.07	14.13	14.69	14.50	(2)
Fabricated metal products .....	12.05	12.03	12.32	12.18	(2)
Industrial machinery and equipment .....	13.13	13.16	13.62	13.57	(2)
Electronic and other electrical equipment .....	11.98	12.00	12.59	12.49	(2)
Transportation equipment .....	16.27	16.29	16.73	16.57	(2)
Instruments and related products .....	12.90	12.91	13.27	13.26	(2)
Miscellaneous manufacturing .....	10.12	10.13	10.42	10.41	(2)
<b>Nondurable goods</b> .....	11.67	11.67	12.14	12.08	\$12.07
Food and kindred products .....	10.85	10.82	11.16	11.12	(2)
Tobacco products .....	20.09	20.49	18.49	19.60	(2)
Textile mill products .....	9.44	9.45	9.90	9.84	(2)
Apparel and other textile products .....	8.00	8.01	8.28	8.23	(2)
Paper and allied products .....	14.08	14.10	14.59	14.54	(2)
Printing and publishing .....	12.42	12.42	12.83	12.80	(2)
Chemicals and allied products .....	15.57	15.63	16.23	16.17	(2)
Petroleum and coal products .....	18.63	18.58	19.56	19.44	(2)
Rubber and misc. plastics products .....	10.92	10.95	11.28	11.25	(2)
Leather and leather products .....	8.69	8.70	9.07	9.11	(2)

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>	May 1997	June 1997	Apr. 1998	May 1998 <sup>P</sup>	June 1998 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$12.18	\$12.18	\$12.69	\$12.69	\$12.65	\$420.21	\$425.08	\$434.00	\$439.07	\$438.96
Constant (1982) dollars .....	7.51	7.50	7.73	7.71	(2)	259.07	261.75	264.31	266.75	(2)
<b>Mining:</b>										
Current dollars .....	16.01	16.14	16.84	16.77	\$16.78	733.26	739.21	730.86	739.56	\$733.29
Constant (1982) dollars .....	9.87	9.94	10.26	10.19	(2)	452.07	455.18	445.10	449.31	(2)
<b>Construction:</b>										
Current dollars .....	15.86	15.91	16.34	16.43	\$16.45	629.64	630.04	620.92	644.06	\$643.20
Constant (1982) dollars .....	9.78	9.80	9.95	9.98	(2)	388.19	387.96	378.15	391.29	(2)
<b>Manufacturing:</b>										
Current dollars .....	13.08	13.09	13.46	13.46	\$13.43	548.05	549.78	549.17	561.28	\$562.72
Constant (1982) dollars .....	8.06	8.06	8.20	8.18	(2)	337.89	338.53	334.45	341.00	(2)
<b>Transportation and public utilities:</b>										
Current dollars .....	14.76	14.82	15.27	15.21	\$15.19	580.07	591.32	597.06	602.32	\$604.56
Constant (1982) dollars .....	9.10	9.13	9.30	9.24	(2)	357.63	364.11	363.62	365.93	(2)
<b>Wholesale trade:</b>										
Current dollars .....	13.33	13.37	13.90	13.94	\$13.84	513.21	517.42	529.59	535.30	\$530.07
Constant (1982) dollars .....	8.22	8.23	8.47	8.47	(2)	316.41	318.61	322.53	325.21	(2)
<b>Retail trade</b>										
Current dollars .....	8.27	8.27	8.70	8.71	\$8.68	238.18	243.14	249.69	252.59	\$254.32
Constant (1982) dollars .....	5.10	5.09	5.30	5.29	(2)	146.84	149.72	152.06	153.46	(2)
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	13.21	13.26	13.98	13.98	\$13.95	474.24	486.64	504.68	504.68	\$503.60
Constant (1982) dollars .....	8.14	8.17	8.51	8.49	(2)	292.38	299.66	307.36	306.61	(2)
<b>Services:</b>										
Current dollars .....	12.16	12.14	12.77	12.75	\$12.69	393.98	398.19	413.75	414.38	\$414.96
Constant (1982) dollars .....	7.50	7.48	7.78	7.75	(2)	242.90	245.19	251.98	251.75	(2)

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

<sup>2</sup> Not available.  
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 1997 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1997 forward are subject to revision.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>Alabama</b> .....	41.8	41.5	42.3	\$11.83	\$11.97	\$12.06	\$494.49	\$496.76	\$510.14
Birmingham .....	42.9	41.9	44.0	12.56	12.68	13.07	538.82	531.29	575.08
Mobile .....	43.3	44.8	46.4	13.87	14.09	14.19	600.57	631.23	658.42
<b>Alaska</b> .....	43.3	43.8	38.3	11.57	11.09	12.07	500.98	485.74	462.28
<b>Arizona</b> .....	41.6	40.5	40.4	11.66	11.90	12.07	485.06	481.95	487.63
<b>Arkansas</b> .....	41.3	40.6	41.9	10.72	10.99	11.04	442.74	446.19	462.58
Fayetteville-Springdale-Rogers .....	41.2	40.4	41.8	10.30	10.71	10.62	424.36	432.68	443.92
Fort Smith .....	42.0	40.1	43.0	10.63	10.85	11.05	446.46	435.09	475.15
Little Rock-North Little Rock .....	42.1	41.7	42.6	11.67	11.89	11.77	491.31	495.81	501.40
Pine Bluff .....	41.2	40.1	41.0	12.24	12.81	12.66	504.29	513.68	519.06
<b>California</b> .....	41.6	40.8	41.6	13.14	13.46	13.53	546.62	549.17	562.85
Bakersfield .....	41.2	41.7	41.6	13.57	13.96	14.02	559.08	582.13	583.23
Fresno .....	40.7	39.4	40.1	11.77	11.99	12.03	479.04	472.41	482.40
Los Angeles-Long Beach .....	42.1	41.7	42.1	12.35	12.60	12.70	519.94	525.42	534.67
Modesto .....	42.6	40.7	41.6	13.56	13.68	13.71	577.66	556.78	570.34
Oakland .....	42.2	41.2	41.3	15.51	15.58	15.59	654.52	641.90	643.87
Orange County .....	42.4	42.4	43.1	12.75	12.95	12.98	540.60	549.08	559.44
Riverside-San Bernardino .....	41.5	42.2	41.8	11.86	11.99	12.04	492.19	505.98	503.27
Sacramento .....	41.2	40.6	40.6	14.04	14.56	14.60	578.45	591.14	592.76
Salinas .....	37.7	38.5	39.1	13.69	14.06	14.01	516.11	541.31	547.79
San Diego .....	39.6	39.8	40.0	13.20	13.54	13.60	522.72	538.89	544.00
San Francisco .....	40.7	40.8	41.4	14.30	14.56	14.51	582.01	594.05	600.71
San Jose .....	41.6	42.3	42.2	16.44	16.66	16.67	683.90	704.72	703.47
Santa Barbara-Santa Maria-Lompoc .....	41.4	41.0	41.7	13.31	14.23	14.30	551.03	583.43	596.31
Santa Rosa .....	39.6	39.9	39.6	14.76	15.09	15.11	594.50	602.09	598.36
Stockton-Lodi .....	42.3	40.1	40.6	13.20	13.54	13.60	558.36	542.95	552.16
Vallejo-Fairfield-Napa .....	40.7	41.6	41.9	15.25	15.61	15.58	620.68	649.38	652.80
Ventura .....	41.9	43.3	43.0	12.49	12.46	12.41	523.33	539.52	533.63
<b>Colorado</b> .....	41.5	41.7	41.6	13.24	13.62	13.64	549.46	567.95	567.42
Denver .....	40.7	43.0	42.4	13.11	12.69	12.65	533.58	545.67	536.36
<b>Connecticut</b> .....	42.4	42.6	43.1	14.36	14.73	14.80	608.86	627.50	637.88
Bridgeport .....	42.4	40.9	42.7	15.05	15.15	15.22	638.12	619.64	649.89
Danbury .....	43.6	42.4	43.4	14.83	14.69	14.84	646.59	622.86	644.06
Hartford .....	43.0	41.6	43.0	15.22	15.52	15.57	654.46	645.63	669.51
New Haven-Meriden .....	42.8	41.2	42.1	14.26	14.74	14.61	610.33	607.29	615.08
New London-Norwich .....	41.9	41.0	42.0	15.27	15.35	15.35	619.70	626.07	644.70
Stamford-Norwalk .....	40.7	39.7	40.0	13.84	13.76	13.74	563.29	546.27	549.60
Waterbury .....	44.1	42.6	42.9	13.52	13.75	13.99	596.23	585.75	600.17
<b>Delaware</b> .....	41.5	41.1	41.7	14.77	15.32	15.43	612.96	629.65	643.43
Dover .....	40.4	39.9	39.3	13.35	13.76	13.84	539.34	549.02	543.91
Wilmington-Newark .....	43.5	43.4	44.3	17.63	18.67	18.70	766.91	810.28	828.41
<b>District of Columbia:</b>									
Washington PMSA .....	38.9	38.2	39.1	13.98	14.23	14.00	543.82	543.59	547.40
<b>Florida</b> .....	41.7	41.0	41.9	10.80	11.35	11.29	450.36	465.35	473.05
<b>Georgia</b> .....	42.3	41.1	42.4	11.59	11.98	12.05	490.26	492.38	510.92
Atlanta .....	42.6	40.0	41.8	12.59	12.85	13.03	536.33	514.00	544.65
Savannah .....	46.2	46.0	48.7	13.95	14.58	14.74	644.49	670.68	717.84
<b>Hawaii</b> .....	37.7	36.6	36.5	12.83	13.28	13.26	483.69	486.05	483.99
Honolulu .....	39.3	39.2	39.2	12.72	13.10	13.26	499.90	513.52	519.79
<b>Idaho</b> .....	39.8	37.6	37.9	12.02	13.16	12.87	478.40	494.82	487.77
<b>Illinois</b> .....	42.1	41.5	41.7	13.32	13.67	13.70	560.77	567.31	571.29
Bloomington-Normal .....	40.2	39.4	39.7	17.00	17.37	17.37	683.40	684.38	689.59
Champaign-Urbana .....	41.1	41.4	41.8	10.88	11.27	11.29	447.17	466.58	471.92
Chicago .....	42.1	41.2	41.6	13.22	13.49	13.53	556.56	555.79	562.85
Davenport-Moline-Rock Island .....	43.1	43.4	43.5	15.42	15.50	15.56	664.60	672.70	676.86
Decatur .....	43.2	42.4	42.5	16.55	16.81	16.80	714.96	712.74	714.00
Kankakee .....	41.9	41.8	41.2	14.60	14.98	14.95	611.74	626.16	615.94
Peoria-Pekin .....	42.9	42.9	42.5	16.51	16.68	16.60	708.28	715.57	705.50
Rockford .....	42.8	43.2	43.2	15.10	15.60	15.52	646.28	673.92	670.46
Springfield .....	41.4	41.5	39.9	11.95	12.06	12.16	494.73	500.49	485.18

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>Indiana</b> .....	42.8	42.2	43.1	\$14.58	\$15.03	\$14.83	\$624.02	\$634.27	\$639.17
Bloomington .....	42.2	40.0	40.0	12.79	12.09	12.11	539.74	483.60	484.40
Elkhart-Goshen .....	40.1	39.5	40.3	12.32	12.34	12.42	494.03	487.43	500.53
Evansville-Henderson .....	43.1	42.7	42.7	14.40	15.27	15.10	620.64	652.03	644.77
Fort Wayne .....	41.5	41.8	41.7	14.55	14.73	14.71	603.83	615.71	613.41
Gary .....	42.3	43.2	44.6	18.31	18.30	17.97	774.51	790.56	801.46
Indianapolis .....	44.5	44.2	44.2	15.66	15.60	15.58	696.87	689.52	688.64
Kokomo .....	44.2	49.8	51.1	18.71	21.46	20.71	826.98	1,068.71	1,058.28
Lafayette .....	41.7	42.9	44.3	15.16	15.74	15.65	632.17	675.25	693.30
Muncie .....	43.9	45.1	45.0	14.43	14.50	14.36	633.48	653.95	646.20
South Bend .....	42.1	40.5	40.5	12.94	12.71	12.79	544.77	514.76	518.00
Terre Haute .....	43.4	44.0	48.7	14.40	15.00	14.07	624.96	660.00	685.21
<b>Iowa</b> .....	42.6	41.2	42.3	13.47	13.98	13.91	573.82	575.98	588.39
Cedar Rapids .....	42.9	39.3	41.7	16.31	17.49	17.74	693.70	687.36	739.76
Des Moines .....	43.5	41.5	41.0	13.43	14.34	14.06	584.21	595.11	576.46
Dubuque .....	40.9	40.0	40.8	15.09	15.28	15.30	617.18	611.20	624.24
Sioux City .....	39.1	40.5	39.8	11.24	11.70	11.63	439.48	473.85	462.87
<b>Kansas</b> .....	42.3	41.4	42.1	13.26	13.69	13.66	560.90	566.77	575.09
Topeka .....	38.5	41.7	43.5	13.12	15.87	15.50	505.12	661.78	674.25
Wichita .....	43.8	42.2	42.7	15.59	15.96	15.95	682.84	673.51	681.07
<b>Kentucky</b> .....	41.8	40.9	41.4	13.03	13.67	13.67	544.65	559.10	565.94
Lexington .....	43.3	41.6	42.4	13.88	13.71	13.88	601.00	570.34	588.51
Louisville .....	41.6	40.9	41.1	14.66	15.12	15.20	609.86	618.41	624.72
<b>Louisiana</b> .....	44.1	43.1	44.3	13.95	14.87	14.84	615.20	640.90	657.41
Baton Rouge .....	42.7	42.2	43.4	16.36	17.69	17.37	698.57	746.52	753.86
New Orleans .....	44.0	42.5	43.6	14.17	14.64	14.46	623.48	622.20	630.46
Shreveport-Bossier City .....	41.9	41.8	42.8	13.67	14.28	13.83	572.77	596.90	591.92
<b>Maine</b> .....	40.9	40.6	41.3	13.08	13.40	13.42	534.97	544.04	554.25
Lewiston-Auburn .....	40.5	38.9	41.1	11.22	11.87	11.44	454.41	461.74	470.18
Portland .....	37.5	42.1	41.7	10.96	11.23	11.35	411.00	472.78	473.30
<b>Maryland</b> .....	41.3	41.4	41.7	14.19	14.45	14.36	586.05	598.23	598.81
Baltimore PMSA .....	41.5	41.1	41.9	14.76	15.12	14.81	612.54	621.43	620.54
<b>Massachusetts</b> .....	42.5	41.8	42.0	13.33	13.68	13.71	566.53	571.82	575.82
Boston .....	41.9	41.4	41.7	14.43	14.79	14.85	604.62	612.31	619.25
Springfield .....	42.6	41.0	41.6	12.87	13.45	13.45	548.26	551.45	559.52
Worcester .....	43.7	42.8	42.2	13.39	13.84	13.93	585.14	592.35	587.85
<b>Michigan</b> .....	44.2	41.8	43.4	16.95	17.51	17.22	749.19	731.92	747.35
Ann Arbor .....	46.1	42.7	44.1	17.92	19.16	19.11	826.11	818.13	842.75
Detroit .....	45.4	42.6	44.2	18.54	18.98	19.16	841.72	808.55	846.87
Flint .....	46.5	41.8	45.6	21.94	23.24	24.48	1,020.21	971.43	1,116.29
Grand Rapids-Muskegon-Holland .....	41.9	40.1	41.6	14.47	14.49	14.48	606.29	581.05	602.37
Jackson .....	41.4	40.0	43.1	13.03	12.66	12.72	539.44	506.40	548.23
Kalamazoo-Battle Creek .....	45.2	42.8	45.4	15.14	15.57	15.62	684.33	666.40	709.15
Lansing East Lansing .....	44.1	39.8	40.2	18.28	19.33	19.32	806.15	769.33	776.66
Saginaw-Bay City-Midland .....	46.7	45.1	45.4	20.13	21.58	21.28	940.07	973.26	966.11
<b>Minnesota</b> .....	40.9	40.9	41.3	13.60	13.82	13.87	556.24	565.24	572.83
Duluth-Superior .....	38.1	40.7	40.4	12.17	12.48	12.61	463.68	507.94	509.44
Minneapolis-St. Paul .....	41.2	41.7	42.2	14.43	14.77	14.79	594.52	615.91	624.14
St. Cloud .....	41.6	43.2	42.4	12.57	13.02	12.83	522.91	562.46	543.99
<b>Mississippi</b> .....	40.9	40.3	41.1	10.36	10.61	10.64	423.72	427.58	437.30
Jackson .....	41.0	39.9	40.8	11.93	11.89	11.73	489.13	474.41	478.58
<b>Missouri</b> .....	41.6	39.9	42.3	13.01	13.02	13.40	541.22	519.50	566.82
Kansas City .....	43.6	42.2	43.7	14.39	14.34	14.21	627.40	605.15	620.98
St. Louis .....	43.4	40.4	43.1	14.90	15.35	15.68	646.66	620.14	675.81
Springfield .....	40.6	40.2	40.7	11.08	11.23	11.33	449.85	451.45	461.13
<b>Montana</b> .....	39.8	39.1	39.7	13.15	13.75	14.08	523.37	537.63	558.98
<b>Nebraska</b> .....	40.9	40.9	42.0	12.11	12.19	12.16	495.30	498.57	510.72
Lincoln .....	45.2	43.6	44.2	13.48	14.24	14.10	609.30	620.86	623.22
Omaha .....	41.1	42.7	43.0	13.62	13.31	13.54	559.78	568.34	582.22
<b>Nevada</b> .....	43.1	41.6	41.7	14.03	14.63	14.90	604.69	608.61	621.33
Las Vegas .....	41.9	41.4	40.7	14.86	16.90	17.18	622.63	699.66	699.23

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>	May 1997	April 1998	May 1998 <sup>P</sup>
<b>New Hampshire</b> .....	42.2	41.0	40.9	\$12.57	\$12.69	\$12.72	\$530.45	\$520.29	\$520.25
Manchester .....	41.0	40.1	40.0	13.92	13.82	13.95	570.72	554.18	558.00
Nashua .....	41.3	40.6	41.4	14.73	14.34	14.34	608.35	596.82	593.68
Portsmouth-Rochester .....	42.0	41.8	41.2	11.65	11.85	12.07	489.30	495.33	497.28
<b>New Jersey</b> .....	41.8	40.7	41.6	14.10	14.43	14.51	589.38	587.30	603.62
<b>New Mexico</b> .....	40.1	37.8	38.5	11.39	12.78	12.78	456.74	483.08	492.03
Albuquerque .....	41.6	36.5	38.0	12.55	13.78	14.36	522.08	502.97	545.68
<b>New York</b> .....	41.1	40.3	41.3	13.12	13.52	13.53	539.23	544.86	558.79
Albany-Schenectady-Troy .....	42.2	41.4	42.6	14.48	14.40	14.26	611.06	596.16	607.48
Binghamton .....	40.3	40.5	41.5	10.68	10.77	10.73	430.40	436.19	445.30
Buffalo-Niagara Falls .....	43.6	42.2	43.3	16.44	17.26	17.37	716.78	728.37	752.12
Dutchess County .....	37.8	39.9	40.1	11.78	12.17	12.21	445.28	485.58	489.62
Elmira .....	41.6	39.8	40.9	12.07	12.52	12.66	502.11	498.30	517.79
Nassau-Suffolk .....	40.1	38.9	40.0	12.32	12.41	12.40	494.03	482.75	496.00
New York PMSA .....	38.5	38.3	39.7	11.88	12.44	12.45	457.38	476.45	494.27
New York City .....	38.1	38.1	39.5	11.65	12.22	12.22	443.87	465.58	482.69
Newburgh .....	42.2	39.2	39.1	11.68	11.30	11.11	492.90	442.96	434.40
Rochester .....	43.0	41.9	42.3	14.83	14.92	14.88	637.69	625.15	629.42
Rockland County .....	43.3	41.2	43.0	15.42	15.47	15.56	667.69	637.36	669.08
Syracuse .....	42.8	42.4	42.5	14.25	14.41	14.45	609.90	610.98	614.13
Utica-Rome .....	41.1	40.0	40.8	11.48	11.68	11.79	471.83	467.20	481.03
Westchester County .....	40.6	39.4	40.7	12.42	13.14	13.18	504.25	517.72	536.43
<b>North Carolina</b> .....	41.0	40.2	41.1	11.37	11.69	11.73	466.17	469.94	482.10
Asheville .....	41.9	39.7	41.1	10.82	11.46	11.28	453.36	454.96	463.61
Charlotte-Gastonia-Rock Hill .....	41.0	40.1	41.1	12.28	12.72	12.78	503.48	510.07	525.26
Greensboro-Winston-Salem-High Point .....	40.5	39.7	40.4	11.59	11.83	11.89	469.40	469.65	480.36
Raleigh-Durham-Chapel Hill .....	41.6	40.8	41.4	12.32	12.77	12.75	512.51	521.02	527.85
<b>North Dakota</b> .....	41.4	40.4	40.4	11.18	11.55	11.37	462.85	466.62	459.35
Fargo-Moorhead .....	41.8	39.9	39.2	11.16	10.71	10.56	466.49	427.33	413.95
<b>Ohio</b> .....	43.2	41.7	42.9	15.12	15.60	15.73	653.18	650.52	674.82
Akron .....	42.6	41.9	43.0	12.65	12.82	12.97	538.89	537.16	557.71
Canton-Massillon .....	41.5	41.6	42.0	13.48	13.94	13.99	559.42	579.90	587.58
Cincinnati .....	43.2	42.9	43.5	14.57	15.09	15.11	629.42	647.36	657.29
Cleveland-Lorain-Elyria .....	43.5	42.2	43.2	15.07	15.09	15.26	655.55	636.80	659.23
Columbus .....	42.3	41.5	42.5	14.10	14.68	14.68	596.43	609.22	623.90
Dayton-Springfield .....	44.2	42.1	43.1	16.32	16.54	16.75	721.34	696.33	721.93
Hamilton-Middletown .....	45.1	45.9	45.4	16.83	17.50	17.59	759.03	803.25	798.59
Lima .....	44.5	42.0	42.5	16.15	15.86	16.01	718.68	666.12	680.43
Mansfield .....	42.8	40.5	42.4	15.49	15.75	16.48	662.97	637.88	698.75
Steubenville-Weirton .....	43.8	42.5	41.7	15.99	17.61	17.71	700.36	748.43	738.51
Toledo .....	44.7	42.4	44.4	16.54	16.89	17.00	739.34	716.14	754.80
Youngstown-Warren .....	41.3	41.1	41.6	16.98	17.95	17.55	701.27	737.75	730.08
<b>Oklahoma</b> .....	41.7	40.6	41.3	11.74	12.59	12.67	489.56	511.15	523.27
Oklahoma City .....	41.7	42.0	43.4	12.22	14.05	13.53	509.57	590.10	587.20
Tulsa .....	41.4	41.4	42.4	12.72	12.85	13.08	526.61	531.99	554.59
<b>Oregon</b> .....	41.2	40.8	41.1	13.37	13.97	13.94	550.84	569.98	572.93
Eugene-Springfield .....	39.4	41.1	41.2	12.87	13.38	13.34	507.08	549.92	549.61
Medford-Ashland .....	40.5	38.8	39.3	12.34	12.67	12.67	499.77	491.60	497.93
Portland-Vancouver .....	42.0	41.0	41.7	13.19	14.15	14.09	553.98	580.15	587.55
Salem .....	40.2	40.0	38.8	11.78	12.10	12.18	473.56	484.00	472.58
<b>Pennsylvania</b> .....	41.8	41.1	41.5	13.70	13.94	14.00	572.66	572.93	581.00
Allentown-Bethlem-Easton .....	41.9	41.9	42.1	13.82	14.42	14.31	579.06	604.20	602.45
Altoona .....	40.5	39.6	40.6	11.64	11.96	12.11	471.42	473.62	491.67
Erie .....	43.7	42.1	42.7	13.75	13.90	13.96	600.88	585.19	596.09
Harrisburg-Lebanon-Carlisle .....	39.2	39.3	38.9	13.00	13.29	13.40	509.60	522.30	521.26
Johnstown .....	39.3	39.2	40.4	10.12	10.34	10.29	397.72	405.33	415.72
Lancaster .....	40.6	39.9	40.0	12.56	12.81	12.80	509.94	511.12	512.00
Philadelphia PMSA .....	41.7	40.3	40.8	14.82	15.26	15.37	617.99	614.98	627.10
Pittsburgh .....	42.6	42.5	42.3	15.02	14.88	14.81	622.81	632.40	626.46
Reading .....	41.9	40.4	41.5	14.61	15.00	15.14	628.92	606.00	628.31
Scranton-Wilkes-Barre-Hazleton .....	41.2	40.9	40.7	12.33	12.56	12.74	508.00	513.70	518.52
Sharon .....	42.8	40.2	41.4	14.60	14.85	15.06	624.88	596.97	623.48
State College .....	42.5	41.1	41.4	11.68	11.82	11.86	496.40	485.80	491.00
Williamsport .....	40.4	40.0	40.5	11.04	11.58	11.48	446.02	463.20	464.94
York .....	42.3	41.4	41.8	14.11	14.16	14.50	596.85	586.22	606.10

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P	May 1997	April 1998	May 1998P
<b>Rhode Island</b> .....	41.0	40.5	41.3	\$11.27	\$11.53	\$11.57	\$462.07	\$466.97	\$477.84
Providence-Fall River-Warwick .....	41.4	40.4	41.5	11.35	11.67	11.93	469.89	471.47	495.10
<b>South Carolina</b> .....	42.0	42.3	42.5	10.31	10.48	10.49	433.02	443.30	445.83
<b>South Dakota</b> .....	41.9	42.5	42.5	9.94	10.12	10.17	416.49	430.10	432.23
Rapid City .....	40.4	41.1	41.0	9.74	10.34	10.43	393.50	424.97	427.63
Sioux Falls .....	41.8	43.5	43.8	10.32	10.55	10.59	431.38	458.93	463.84
<b>Tennessee</b> .....	40.9	39.9	40.8	11.61	11.96	11.87	474.85	477.20	484.30
Chattanooga .....	42.6	41.5	42.2	10.67	10.90	10.82	454.54	452.35	456.60
Johnson City-Kingsport-Bristol .....	39.5	38.6	39.0	12.73	12.96	12.59	502.84	500.26	491.01
Knoxville .....	41.2	39.2	40.6	11.09	11.90	11.73	456.91	466.48	476.24
Memphis .....	42.6	40.8	41.2	12.00	12.57	12.44	511.20	512.86	512.53
Nashville .....	40.3	40.2	41.1	12.59	12.98	12.80	507.38	521.80	526.08
<b>Texas</b> .....	43.3	42.7	43.6	12.02	12.15	12.13	520.47	518.81	528.87
Dallas .....	43.5	41.8	42.2	12.16	12.24	12.18	528.96	511.63	514.00
Ft. Worth-Arlington .....	43.4	42.1	43.4	12.78	13.05	13.12	554.65	549.41	569.41
Houston .....	45.9	45.1	45.6	13.84	14.21	14.16	635.26	640.87	645.70
San Antonio .....	40.9	42.1	42.4	9.71	9.70	9.68	397.14	408.37	410.43
<b>Utah</b> .....	40.2	39.6	38.3	12.70	12.98	13.23	510.54	514.01	506.71
Salt Lake City-Ogden .....	40.7	40.1	41.0	12.54	12.84	12.92	510.38	514.88	529.72
<b>Vermont</b> .....	40.3	38.6	39.7	12.66	12.93	12.80	510.20	499.10	508.16
Burlington .....	43.4	42.7	43.7	13.05	13.42	13.45	566.37	573.03	587.77
<b>Virginia</b> .....	42.2	41.2	41.9	12.36	12.83	12.79	521.59	528.60	535.90
Bristol .....	42.0	38.3	38.4	10.65	10.38	10.91	447.30	397.55	418.94
Charlottesville .....	43.1	44.4	44.4	10.01	10.22	10.40	431.43	453.77	461.76
Danville .....	45.0	42.9	42.3	12.45	13.38	12.60	560.25	574.00	532.98
Lynchburg .....	41.2	42.3	46.7	12.12	12.42	12.70	499.34	525.37	593.09
Northern Virginia .....	41.5	39.9	41.4	12.63	13.23	13.42	524.15	527.88	555.59
Richmond-Petersburg .....	43.0	40.4	41.6	15.69	16.31	15.95	674.67	658.92	663.52
Roanoke .....	39.6	38.9	40.3	14.38	13.56	13.66	569.45	527.48	550.50
<b>Washington</b> .....	40.2	40.1	41.1	14.92	15.51	15.58	599.78	621.95	640.34
<b>West Virginia</b> .....	41.8	41.1	41.3	13.21	13.78	13.51	552.18	566.36	557.96
Charleston .....	46.5	47.6	48.6	14.76	15.63	15.37	686.34	743.99	746.98
Huntington-Ashland .....	41.9	43.0	42.3	14.81	15.81	15.42	620.54	679.83	652.27
Parkersburg-Marietta .....	43.9	41.2	39.9	16.79	17.37	16.47	737.08	715.64	657.15
Wheeling .....	40.9	38.8	42.0	14.63	16.13	16.86	598.37	625.84	708.12
<b>Wisconsin</b> .....	42.2	41.1	41.6	13.60	13.91	14.02	573.92	571.70	583.23
Appleton-Oshkosh-Neenah .....	43.9	43.9	44.1	14.69	14.90	15.17	644.89	654.11	669.00
Eau Claire .....	42.1	41.5	41.1	12.65	12.47	12.91	532.57	517.51	530.60
Green Bay .....	42.0	40.6	40.7	14.83	15.44	15.40	622.86	626.86	626.78
Janesville-Beloit .....	45.2	41.6	43.2	17.31	17.43	17.80	782.41	725.09	768.96
Kenosha .....	37.8	38.4	39.0	14.46	15.51	15.89	546.59	595.58	619.71
La Crosse .....	42.3	41.9	41.9	11.86	12.19	12.34	501.68	510.76	517.05
Madison .....	40.3	39.0	39.4	12.73	13.03	12.98	513.02	508.17	511.41
Milwaukee-Waukesha .....	42.0	40.7	41.4	14.85	14.89	14.74	627.90	606.02	610.24
Racine .....	42.1	38.3	42.8	13.85	14.36	14.63	583.09	549.99	626.16
Sheboygan .....	42.2	41.8	42.8	12.95	13.70	13.83	546.49	572.66	591.92
Wausau .....	43.6	42.2	42.1	13.07	13.45	13.39	569.85	567.59	563.72
<b>Wyoming</b> .....	40.4	41.0	40.7	14.49	15.79	15.26	585.40	647.39	621.08
<b>Puerto Rico</b> .....	39.8	38.6	40.3	7.94	8.32	8.54	316.01	321.15	344.16
<b>Virgin Islands</b> .....	42.0	39.1	39.6	17.96	18.86	18.60	754.32	737.43	736.56

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.

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

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

(Numbers in thousands)

Census region and division	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>NORTHEAST</b>													
Civilian labor force .....	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	26,097.5	26,105.9	26,045.2	26,056.5
Employed .....	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	24,806.3	24,797.5	24,826.0	24,829.1
Unemployed .....	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	1,291.1	1,308.4	1,219.2	1,227.4
Unemployment rate .....	5.5	5.5	5.4	5.4	5.3	5.2	5.2	5.1	4.9	4.9	5.0	4.7	4.7
<b>New England</b>													
Civilian labor force .....	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	7,123.0	7,139.0	7,103.1	7,122.6
Employed .....	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	6,864.6	6,862.8	6,860.0	6,859.6
Unemployed .....	323.4	319.6	313.5	311.7	308.7	303.3	298.5	292.7	269.7	258.4	276.2	243.1	263.0
Unemployment rate .....	4.5	4.5	4.4	4.4	4.3	4.2	4.2	4.1	3.8	3.6	3.9	3.4	3.7
<b>Middle Atlantic</b>													
Civilian labor force .....	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	18,974.5	18,966.9	18,942.1	18,933.9
Employed .....	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	17,941.7	17,934.7	17,966.0	17,969.5
Unemployed .....	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	1,032.7	1,032.2	976.1	964.4
Unemployment rate .....	5.8	5.8	5.8	5.8	5.7	5.6	5.5	5.4	5.3	5.4	5.4	5.2	5.1
<b>SOUTH</b>													
Civilian labor force .....	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	47,818.3	47,879.6	47,935.3	47,974.2
Employed .....	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	45,752.0	45,761.0	45,865.9	45,931.4
Unemployed .....	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	2,066.4	2,118.6	2,069.5	2,042.8
Unemployment rate .....	5.0	5.0	5.0	4.9	4.9	4.7	4.6	4.6	4.4	4.3	4.4	4.3	4.3
<b>South Atlantic</b>													
Civilian labor force .....	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	24,765.7	24,763.1	24,800.5	24,785.1
Employed .....	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	23,724.7	23,720.6	23,786.9	23,788.6
Unemployed .....	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	1,041.0	1,042.5	1,013.6	996.5
Unemployment rate .....	4.6	4.6	4.6	4.5	4.5	4.3	4.3	4.2	4.2	4.2	4.2	4.1	4.0
<b>East South Central</b>													
Civilian labor force .....	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	8,136.3	8,167.0	8,148.8	8,146.8
Employed .....	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	7,785.3	7,784.1	7,791.0	7,792.8
Unemployed .....	439.9	445.1	445.8	431.7	434.1	417.7	409.7	397.5	369.1	351.0	382.8	357.7	354.0
Unemployment rate .....	5.5	5.5	5.5	5.3	5.4	5.1	5.0	4.9	4.5	4.3	4.7	4.4	4.3
<b>West South Central</b>													
Civilian labor force .....	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	14,916.3	14,949.5	14,986.1	15,042.2
Employed .....	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	14,241.9	14,256.2	14,288.0	14,350.0
Unemployed .....	798.0	803.6	796.4	784.9	773.7	762.9	743.2	727.2	714.5	674.4	693.3	698.1	692.2
Unemployment rate .....	5.4	5.5	5.4	5.3	5.2	5.2	5.0	4.9	4.8	4.5	4.6	4.7	4.6

See footnotes at end of table.



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

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

(Numbers in thousands)

Census region and division	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>MIDWEST</b>													
Civilian labor force .....	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	33,376.7	33,383.1	33,299.7	33,298.7
Employed .....	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	32,147.6	32,126.5	32,167.9	32,130.2
Unemployed .....	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	1,229.1	1,256.6	1,131.8	1,168.5
Unemployment rate .....	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7	3.7	3.8	3.4	3.5
<b>East North Central</b>													
Civilian labor force .....	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	23,114.8	23,134.0	23,025.2	23,012.1
Employed .....	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	22,197.5	22,209.7	22,214.2	22,171.5
Unemployed .....	952.0	956.7	970.5	961.2	966.4	966.8	962.9	959.3	930.8	917.3	924.3	811.1	840.6
Unemployment rate .....	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	4.0	4.0	3.5	3.7
<b>West North Central</b>													
Civilian labor force .....	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	10,262.0	10,249.1	10,274.4	10,286.6
Employed .....	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	9,950.1	9,916.8	9,953.7	9,958.7
Unemployed .....	359.3	350.9	345.3	343.1	343.8	335.7	329.7	327.4	315.2	311.8	332.3	320.7	327.9
Unemployment rate .....	3.6	3.5	3.4	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.2	3.1	3.2
<b>WEST</b>													
Civilian labor force .....	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	30,513.8	30,617.8	30,604.4	30,677.5
Employed .....	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	28,944.5	29,004.2	29,000.4	29,087.8
Unemployed .....	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	1,569.3	1,613.7	1,604.0	1,589.7
Unemployment rate .....	5.6	5.6	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.3	5.2	5.2
<b>Mountain</b>													
Civilian labor force .....	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	8,672.2	8,685.1	8,711.3	8,710.5
Employed .....	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	8,323.7	8,317.0	8,336.5	8,349.0
Unemployed .....	359.6	356.8	354.3	351.1	350.6	347.5	349.0	349.7	335.6	348.5	368.1	374.8	361.5
Unemployment rate .....	4.3	4.3	4.2	4.2	4.1	4.1	4.1	4.1	3.9	4.0	4.2	4.3	4.2
<b>Pacific</b>													
Civilian labor force .....	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	21,841.6	21,932.8	21,893.1	21,967.0
Employed .....	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	20,620.8	20,687.2	20,663.9	20,738.8
Unemployed .....	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	1,220.8	1,245.6	1,229.2	1,228.1
Unemployment rate .....	6.1	6.1	6.0	6.0	6.0	5.9	5.8	5.8	5.7	5.6	5.7	5.6	5.6

<sup>P</sup> = preliminary.

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

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

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

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>Alabama</b>													
Civilian labor force .....	2,185.8	2,187.7	2,189.7	2,182.2	2,178.1	2,172.7	2,164.8	2,154.1	2,146.3	2,141.6	2,149.9	2,137.4	2,145.3
Employed .....	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	2,059.8	2,060.0	2,058.8	2,056.7
Unemployed .....	114.2	116.1	115.3	111.9	110.7	105.7	102.7	99.1	89.1	81.8	89.9	78.7	88.6
Unemployment rate .....	5.2	5.3	5.3	5.1	5.1	4.9	4.7	4.6	4.1	3.8	4.2	3.7	4.0
<b>Alaska</b>													
Civilian labor force .....	314.3	314.9	315.6	316.1	316.7	317.0	317.4	318.5	317.6	318.0	317.4	316.3	318.5
Employed .....	289.4	289.8	290.5	291.0	292.1	293.0	294.4	295.9	297.8	297.9	298.5	298.3	299.6
Unemployed .....	24.9	25.1	25.1	25.1	24.5	24.0	23.1	22.6	19.8	20.1	19.0	18.1	18.9
Unemployment rate .....	7.9	8.0	8.0	7.9	7.7	7.6	7.3	7.1	6.2	6.3	6.0	5.7	5.9
<b>Arizona</b>													
Civilian labor force .....	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	2,252.4	2,263.3	2,269.5	2,262.1
Employed .....	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	2,163.0	2,164.4	2,169.8	2,169.7
Unemployed .....	101.6	98.4	97.6	95.5	94.6	93.3	94.7	93.0	83.8	89.3	89.0	99.6	92.4
Unemployment rate .....	4.7	4.6	4.5	4.4	4.4	4.3	4.3	4.2	3.7	4.0	4.4	4.4	4.1
<b>Arkansas</b>													
Civilian labor force .....	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	1,243.9	1,248.9	1,249.5	1,246.9
Employed .....	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	1,178.8	1,184.4	1,182.4
Unemployed .....	61.5	64.4	65.6	64.4	63.0	61.6	61.7	62.1	65.6	65.4	70.1	65.1	64.4
Unemployment rate .....	5.1	5.4	5.4	5.3	5.2	5.0	5.0	5.0	5.3	5.3	5.6	5.2	5.2
<b>California</b>													
Civilian labor force .....	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	16,147.0	16,218.2	16,215.1	16,234.5
Employed .....	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	15,189.0	15,238.2	15,251.1	15,286.4
Unemployed .....	1,007.8	1,004.8	994.8	996.3	999.4	989.3	973.6	971.0	968.3	958.0	980.0	964.0	948.2
Unemployment rate .....	6.3	6.3	6.2	6.2	6.2	6.2	6.1	6.0	6.0	5.9	6.0	5.9	5.8
<b>Colorado</b>													
Civilian labor force .....	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	2,231.4	2,240.5	2,242.9
Employed .....	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	2,165.7	2,161.5	2,165.1	2,171.7
Unemployed .....	70.2	69.7	68.6	68.8	68.6	66.5	67.4	66.9	63.1	67.2	69.9	75.3	71.2
Unemployment rate .....	3.3	3.2	3.2	3.2	3.1	3.0	3.1	3.0	2.8	3.0	3.1	3.4	3.2
<b>Connecticut</b>													
Civilian labor force .....	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	1,716.8	1,722.4	1,714.9	1,720.9
Employed .....	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	1,651.8	1,653.0	1,647.7	1,655.7
Unemployed .....	91.0	89.5	87.1	85.1	84.2	82.6	80.0	77.5	65.3	65.0	69.4	67.1	65.2
Unemployment rate .....	5.3	5.2	5.1	4.9	4.9	4.8	4.6	4.5	3.8	3.8	4.0	3.9	3.8
<b>Delaware</b>													
Civilian labor force .....	376.4	377.6	376.6	379.7	380.5	381.9	383.9	387.0	387.9	388.7	393.2	393.2	394.0
Employed .....	360.4	361.6	363.3	365.1	366.7	368.7	371.2	374.0	374.6	375.0	379.6	378.3	377.9
Unemployed .....	16.0	15.9	15.3	14.6	13.8	13.3	12.7	13.0	13.3	13.6	13.6	14.9	16.2
Unemployment rate .....	4.3	4.2	4.0	3.8	3.6	3.5	3.3	3.4	3.4	3.5	3.5	3.8	4.1
<b>District of Columbia</b>													
Civilian labor force .....	256.9	254.3	255.0	256.2	256.1	255.7	255.6	255.7	258.5	260.6	260.6	268.4	267.0
Employed .....	237.2	234.7	234.9	235.6	235.0	234.6	234.8	234.9	236.7	237.0	236.3	244.6	245.3
Unemployed .....	19.7	19.6	20.1	20.6	21.1	21.1	20.8	20.8	21.8	23.6	24.2	23.8	21.7
Unemployment rate .....	7.7	7.7	7.9	8.0	8.2	8.3	8.1	8.1	8.4	9.1	9.3	8.9	8.1
<b>Florida</b>													
Civilian labor force .....	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	7,258.3	7,269.7	7,302.6	7,296.0
Employed .....	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	6,922.1	6,923.3	6,959.8	6,972.8
Unemployed .....	341.5	339.5	332.1	333.8	335.5	333.9	337.0	337.7	337.8	336.1	346.4	342.9	323.2
Unemployment rate .....	4.8	4.8	4.7	4.7	4.7	4.6	4.7	4.7	4.7	4.6	4.8	4.7	4.4

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>Georgia</b>													
Civilian labor force .....	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	3,950.0	3,931.6	3,960.4	3,952.2
Employed .....	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	3,786.3	3,772.5	3,802.7	3,792.2
Unemployed .....	184.5	163.9	180.9	177.2	173.0	166.9	164.2	158.9	157.0	163.6	159.1	157.7	160.1
Unemployment rate .....	4.7	4.7	4.6	4.5	4.4	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0
<b>Hawaii</b>													
Civilian labor force .....	590.4	591.7	592.4	592.1	592.6	592.4	592.5	593.1	593.4	592.8	592.9	592.3	593.5
Employed .....	551.5	552.5	553.6	554.4	555.2	556.3	557.1	557.7	560.4	558.7	558.6	561.0	559.0
Unemployed .....	38.9	39.2	38.8	37.7	37.6	36.1	35.4	35.4	33.0	34.1	34.4	31.3	34.5
Unemployment rate .....	6.6	6.6	6.5	6.4	6.3	6.1	6.0	6.0	5.6	5.7	5.8	5.3	5.8
<b>Idaho</b>													
Civilian labor force .....	631.7	633.8	634.8	634.9	636.2	638.0	638.4	641.0	640.1	641.7	644.8	646.7	645.9
Employed .....	597.9	599.8	601.4	600.8	602.5	604.2	605.8	607.4	608.1	609.5	611.2	613.5	615.6
Unemployed .....	33.6	33.9	33.4	34.1	33.7	33.7	32.6	33.6	32.0	32.2	33.5	33.2	30.3
Unemployment rate .....	5.4	5.4	5.3	5.4	5.3	5.3	5.1	5.2	5.0	5.0	5.2	5.1	4.7
<b>Illinois</b>													
Civilian labor force .....	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	6,186.3	6,189.1	6,142.1	6,131.3
Employed .....	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	5,902.6	5,909.1	5,888.2	5,890.3
Unemployed .....	271.2	281.0	284.9	283.2	284.0	287.6	294.8	295.1	302.7	283.6	280.0	255.9	241.0
Unemployment rate .....	4.4	4.6	4.6	4.6	4.6	4.7	4.8	4.8	4.9	4.6	4.5	4.2	3.9
<b>Indiana</b>													
Civilian labor force .....	3,092.3	3,093.6	3,098.4	3,104.6	3,103.6	3,111.2	3,113.8	3,113.0	3,115.4	3,111.1	3,133.9	3,117.3	3,093.9
Employed .....	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	3,010.6	3,027.0	3,030.1	3,005.2
Unemployed .....	107.0	107.0	108.9	113.0	112.7	113.5	109.2	109.1	101.8	100.5	106.9	87.2	88.7
Unemployment rate .....	3.5	3.5	3.5	3.6	3.6	3.6	3.5	3.5	3.3	3.2	3.4	2.8	2.9
<b>Iowa</b>													
Civilian labor force .....	1,575.2	1,574.6	1,572.2	1,568.3	1,571.5	1,574.0	1,573.9	1,581.7	1,569.9	1,594.3	1,588.6	1,582.9	1,581.7
Employed .....	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	1,552.9	1,547.1	1,544.7	1,545.2
Unemployed .....	51.1	51.3	49.5	49.2	48.1	45.7	45.3	46.0	44.5	41.4	41.5	38.2	36.6
Unemployment rate .....	3.2	3.3	3.1	3.1	3.1	2.9	2.9	2.9	2.8	2.6	2.6	2.4	2.3
<b>Kansas</b>													
Civilian labor force .....	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	1,409.7	1,409.8	1,414.6	1,418.6
Employed .....	1,296.4	1,303.5	1,315.9	1,322.6	1,328.9	1,335.9	1,343.4	1,351.6	1,358.9	1,362.0	1,360.3	1,366.9	1,368.7
Unemployed .....	51.1	50.0	49.9	49.7	50.6	50.4	50.8	52.7	48.8	47.7	49.5	47.7	49.9
Unemployment rate .....	3.8	3.7	3.7	3.6	3.7	3.6	3.6	3.8	3.5	3.4	3.5	3.4	3.5
<b>Kentucky</b>													
Civilian labor force .....	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	1,936.3	1,945.8	1,936.9	1,939.5
Employed .....	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	1,856.5	1,858.9	1,861.0	1,858.4
Unemployed .....	107.9	106.1	104.3	101.7	100.0	97.0	94.9	92.3	88.4	79.9	86.9	77.8	81.1
Unemployment rate .....	5.6	5.5	5.4	5.2	5.2	5.0	4.9	4.8	4.6	4.1	4.5	4.0	4.2
<b>Louisiana</b>													
Civilian labor force .....	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	2,038.0	2,033.2	2,054.4	2,079.8
Employed .....	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	1,949.8	1,937.4	1,940.7	1,970.3
Unemployed .....	130.2	128.7	125.4	122.7	120.2	119.7	119.4	117.3	105.3	88.2	95.8	113.8	109.5
Unemployment rate .....	6.4	6.4	6.2	6.1	5.9	5.9	5.9	5.7	5.1	4.3	4.7	5.5	5.3
<b>Maine</b>													
Civilian labor force .....	657.5	656.6	655.1	655.6	656.4	657.8	659.0	661.1	660.9	657.9	655.0	653.3	653.8
Employed .....	621.8	620.9	620.0	620.6	621.1	622.5	624.0	626.3	627.7	627.6	626.6	627.1	629.0
Unemployed .....	35.9	35.7	35.1	35.0	35.3	35.3	35.0	34.9	33.1	30.3	28.4	26.2	24.8
Unemployment rate .....	5.5	5.4	5.4	5.3	5.4	5.4	5.3	5.3	5.0	4.6	4.3	4.0	3.8

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				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>Maryland</b>													
Civilian labor force .....	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	2,802.1	2,796.9	2,793.0	2,783.9
Employed .....	2,646.7	2,642.0	2,641.7	2,638.5	2,637.7	2,644.5	2,651.8	2,657.1	2,668.8	2,667.2	2,666.5	2,668.0	2,657.1
Unemployed .....	143.9	146.4	145.3	142.9	146.1	139.6	137.4	133.7	134.9	134.9	130.4	125.0	126.7
Unemployment rate .....	5.2	5.2	5.2	5.1	5.2	5.0	4.9	4.8	4.8	4.8	4.7	4.5	4.6
<b>Massachusetts</b>													
Civilian labor force .....	3,266.9	3,267.7	3,289.7	3,271.2	3,269.1	3,268.5	3,263.2	3,254.5	3,258.8	3,258.3	3,268.4	3,244.7	3,262.6
Employed .....	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	3,149.4	3,146.5	3,148.8	3,143.8
Unemployed .....	134.4	132.6	131.4	132.9	131.2	127.3	126.4	124.3	116.9	108.9	121.9	95.8	118.7
Unemployment rate .....	4.1	4.1	4.0	4.1	4.0	3.9	3.9	3.8	3.6	3.3	3.7	3.0	3.6
<b>Michigan</b>													
Civilian labor force .....	4,987.5	4,977.9	4,967.3	4,971.2	4,982.3	4,999.9	5,003.4	5,013.0	5,047.2	5,051.1	5,047.6	5,033.7	5,037.4
Employed .....	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	4,848.1	4,848.8	4,857.2	4,849.9
Unemployed .....	208.9	206.2	213.2	200.7	203.2	200.9	199.0	197.3	197.7	205.0	198.8	176.8	187.6
Unemployment rate .....	4.2	4.1	4.3	4.0	4.1	4.0	4.0	3.9	3.9	4.1	3.9	3.5	3.7
<b>Minnesota</b>													
Civilian labor force .....	2,608.9	2,614.2	2,623.3	2,632.5	2,640.3	2,650.1	2,660.8	2,670.8	2,672.5	2,675.4	2,684.1	2,693.6	2,696.8
Employed .....	2,521.3	2,529.1	2,538.9	2,546.6	2,557.0	2,568.8	2,581.2	2,593.5	2,600.0	2,606.3	2,607.0	2,624.2	2,623.1
Unemployed .....	87.6	85.2	84.4	83.9	83.2	81.3	79.6	77.3	72.6	69.1	77.1	69.4	73.7
Unemployment rate .....	3.4	3.3	3.2	3.2	3.2	3.1	3.0	2.9	2.7	2.6	2.9	2.6	2.7
<b>Mississippi</b>													
Civilian labor force .....	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	1,281.5	1,289.9	1,282.4	1,283.4
Employed .....	1,186.9	1,186.3	1,193.6	1,193.8	1,196.1	1,204.4	1,208.8	1,213.7	1,214.9	1,212.4	1,214.5	1,214.1	1,217.5
Unemployed .....	71.1	72.1	72.5	74.0	78.5	73.2	69.6	65.6	69.9	69.1	75.4	68.3	65.9
Unemployment rate .....	5.7	5.7	5.7	5.8	6.0	5.7	5.4	5.1	5.4	5.4	5.8	5.3	5.1
<b>Missouri</b>													
Civilian labor force .....	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	2,911.7	2,894.8	2,911.4	2,916.0
Employed .....	2,761.7	2,782.3	2,759.1	2,759.9	2,762.8	2,772.5	2,775.6	2,779.2	2,796.3	2,793.0	2,770.2	2,781.9	2,784.8
Unemployed .....	121.2	118.2	117.5	117.3	120.3	119.9	118.9	115.7	115.0	118.7	124.7	129.6	131.2
Unemployment rate .....	4.2	4.1	4.1	4.1	4.2	4.1	4.0	4.0	4.0	4.1	4.3	4.4	4.5
<b>Montana</b>													
Civilian labor force .....	452.3	452.2	454.2	455.2	455.7	458.0	459.0	460.6	462.2	462.5	461.8	462.6	464.6
Employed .....	428.2	427.8	429.6	430.8	431.4	433.3	434.2	435.9	437.1	438.2	436.8	437.2	438.8
Unemployed .....	24.1	24.4	24.6	24.4	24.3	24.7	24.8	24.7	25.1	24.3	25.0	25.4	25.8
Unemployment rate .....	5.3	5.4	5.4	5.4	5.3	5.4	5.4	5.4	5.4	5.3	5.4	5.5	5.6
<b>Nebraska</b>													
Civilian labor force .....	898.6	900.5	903.9	906.5	910.6	913.9	919.0	923.6	924.2	926.2	926.8	926.7	927.6
Employed .....	873.3	875.8	880.2	883.2	888.3	893.4	899.9	905.9	907.6	908.4	906.3	910.5	909.3
Unemployed .....	25.3	24.9	23.7	23.3	22.3	20.5	19.1	17.7	16.6	17.9	20.5	18.2	18.3
Unemployment rate .....	2.8	2.8	2.6	2.6	2.5	2.2	2.1	1.9	1.8	1.9	2.2	2.0	2.0
<b>Nevada</b>													
Civilian labor force .....	878.2	882.5	885.9	888.3	892.1	895.1	897.1	900.6	905.7	911.4	909.6	914.5	915.6
Employed .....	842.6	846.9	850.5	853.5	858.6	859.7	861.7	864.8	866.7	869.7	867.2	870.4	872.9
Unemployed .....	35.6	35.6	35.4	34.8	35.6	35.4	35.4	35.6	39.0	41.8	42.4	44.1	42.7
Unemployment rate .....	4.1	4.0	4.0	3.9	4.0	4.0	3.9	4.0	4.3	4.6	4.7	4.8	4.7
<b>New Hampshire</b>													
Civilian labor force .....	644.7	647.0	650.9	649.1	648.3	652.8	653.2	651.2	653.3	652.7	652.0	653.5	654.7
Employed .....	623.9	626.0	630.8	629.5	629.1	633.3	633.7	632.1	635.4	634.6	632.7	634.9	635.1
Unemployed .....	20.7	21.0	20.1	19.5	19.2	19.5	19.5	19.1	17.9	18.1	19.3	18.6	19.6
Unemployment rate .....	3.2	3.2	3.1	3.0	3.0	3.0	3.0	2.9	2.7	2.8	3.0	2.8	3.0

See footnotes at end of table.

STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED

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

(Numbers in thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>New Jersey</b>													
Civilian labor force .....	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	4,185.9	4,192.5	4,188.9	4,183.5
Employed .....	3,963.3	3,987.9	3,990.4	3,988.7	3,984.2	3,983.9	3,979.3	3,971.6	3,977.1	3,975.3	3,978.5	3,974.9	3,974.8
Unemployed .....	216.8	217.8	212.6	211.8	212.8	210.1	206.9	206.6	204.7	210.6	214.0	214.1	208.7
Unemployment rate .....	5.2	5.2	5.1	5.0	5.1	5.0	4.9	4.9	4.9	5.0	5.1	5.1	5.0
<b>New Mexico</b>													
Civilian labor force .....	815.8	819.2	823.1	824.1	825.7	829.8	832.8	835.5	836.1	837.7	841.7	842.7	843.1
Employed .....	766.7	770.2	773.5	775.8	776.2	779.8	781.3	782.2	784.9	785.1	787.7	790.7	788.2
Unemployed .....	49.1	49.0	49.5	48.4	49.6	50.0	51.5	53.3	51.2	52.5	54.0	52.1	54.9
Unemployment rate .....	8.0	6.0	8.0	5.9	6.0	6.0	6.2	6.4	6.1	6.3	6.4	6.2	6.5
<b>New York</b>													
Civilian labor force .....	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	8,810.2	8,795.3	8,773.0	8,788.4
Employed .....	8,247.4	8,253.3	8,269.8	8,266.2	8,281.8	8,261.5	8,252.7	8,241.8	8,259.4	8,267.9	8,261.8	8,267.5	8,287.8
Unemployed .....	572.2	571.9	571.8	568.7	563.4	557.0	546.7	534.0	527.2	542.3	533.5	505.4	500.5
Unemployment rate .....	8.5	8.5	6.5	6.4	6.4	6.3	6.2	8.1	6.0	6.2	6.1	5.8	5.7
<b>North Carolina</b>													
Civilian labor force .....	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	3,847.8	3,846.9	3,823.1	3,807.2
Employed .....	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	3,706.5	3,698.0	3,683.1	3,681.5
Unemployed .....	138.4	140.4	140.4	140.1	138.0	136.7	139.4	139.8	138.4	141.3	148.8	140.1	125.7
Unemployment rate .....	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.6	3.7	3.9	3.7	3.3
<b>North Dakota</b>													
Civilian labor force .....	349.9	348.2	347.6	346.9	346.7	346.1	346.3	346.1	346.2	346.0	346.4	344.9	346.4
Employed .....	338.7	339.0	339.1	339.0	338.9	339.5	339.2	339.1	339.8	339.4	338.0	338.2	339.1
Unemployed .....	11.2	9.2	8.5	7.9	7.7	6.6	7.1	7.0	6.4	6.6	8.4	6.7	7.3
Unemployment rate .....	3.2	2.7	2.5	2.3	2.2	1.9	2.0	2.0	1.8	1.9	2.4	1.9	2.1
<b>Ohio</b>													
Civilian labor force .....	5,684.7	5,887.4	5,897.4	5,718.4	5,732.3	5,746.7	5,767.0	5,786.2	5,796.7	5,803.6	5,805.8	5,784.3	5,800.3
Employed .....	5,427.3	5,434.8	5,444.0	5,463.1	5,473.2	5,487.0	5,510.9	5,531.5	5,561.9	5,562.7	5,558.4	5,562.3	5,555.3
Unemployed .....	257.4	252.8	253.4	255.3	259.0	259.7	256.1	254.6	234.7	240.9	247.5	222.0	245.0
Unemployment rate .....	4.5	4.4	4.4	4.5	4.5	4.5	4.4	4.4	4.0	4.2	4.3	3.8	4.2
<b>Oklahoma</b>													
Civilian labor force .....	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	1,612.4	1,616.2	1,611.6	1,614.1
Employed .....	1,528.8	1,527.4	1,531.6	1,534.0	1,538.4	1,542.2	1,546.9	1,550.2	1,555.4	1,555.6	1,558.7	1,551.0	1,554.7
Unemployed .....	68.4	68.6	67.3	66.0	65.6	62.8	60.8	57.3	52.7	56.9	57.5	60.5	59.5
Unemployment rate .....	4.3	4.3	4.2	4.1	4.1	3.9	3.8	3.6	3.3	3.5	3.6	3.8	3.7
<b>Oregon</b>													
Civilian labor force .....	1,705.3	1,711.5	1,720.4	1,738.1	1,751.3	1,764.7	1,767.3	1,775.4	1,807.9	1,774.4	1,778.5	1,769.2	1,775.8
Employed .....	1,609.0	1,612.6	1,620.2	1,638.6	1,651.3	1,665.7	1,670.8	1,681.2	1,713.8	1,690.5	1,691.3	1,679.3	1,682.8
Unemployed .....	96.4	98.8	100.2	99.5	99.9	99.0	96.5	94.2	94.1	83.9	87.2	89.9	92.9
Unemployment rate .....	5.7	5.8	5.8	5.7	5.7	5.6	5.5	5.3	5.2	4.7	4.9	5.1	5.2
<b>Pennsylvania</b>													
Civilian labor force .....	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	5,978.3	5,979.1	5,980.2	5,962.0
Employed .....	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	5,698.5	5,694.3	5,723.6	5,706.9
Unemployed .....	320.9	319.7	317.6	313.8	307.8	298.4	292.9	286.7	276.4	279.8	284.8	256.6	255.2
Unemployment rate .....	5.4	5.3	5.3	5.2	5.1	5.0	4.9	4.8	4.6	4.7	4.8	4.3	4.3
<b>Rhode Island</b>													
Civilian labor force .....	505.8	505.3	505.5	506.0	507.1	507.7	506.7	507.5	508.6	506.5	509.5	506.6	501.7
Employed .....	477.3	477.3	478.4	479.5	480.9	481.6	481.4	482.9	484.1	481.9	483.7	481.9	478.4
Unemployed .....	28.5	28.0	27.1	26.5	26.2	26.0	25.2	24.6	24.5	24.6	25.8	24.7	23.4
Unemployment rate .....	5.6	5.5	5.4	5.2	5.2	5.1	5.0	4.9	4.8	4.9	5.1	4.9	4.7

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1997								1998				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>
<b>South Carolina</b>													
Civilian labor force .....	1,918.1	1,923.0	1,928.0	1,925.4	1,918.6	1,912.2	1,907.7	1,902.9	1,908.4	1,910.4	1,902.6	1,913.3	1,919.4
Employed .....	1,826.7	1,833.5	1,842.5	1,842.9	1,839.8	1,839.4	1,836.9	1,832.9	1,834.5	1,844.5	1,856.3	1,856.8	1,854.3
Unemployed .....	91.4	89.5	85.5	82.5	79.0	72.8	70.8	70.0	73.8	65.8	46.2	56.6	65.1
Unemployment rate .....	4.8	4.7	4.4	4.3	4.1	3.8	3.7	3.7	3.9	3.4	2.4	3.0	3.4
<b>South Dakota</b>													
Civilian labor force .....	391.3	390.8	391.5	392.1	392.5	394.4	395.9	397.5	398.0	398.7	398.8	398.4	399.5
Employed .....	379.5	378.7	379.8	380.3	380.9	383.0	384.8	386.7	386.7	388.2	387.8	387.4	388.6
Unemployed .....	11.8	12.1	11.7	11.8	11.6	11.3	11.2	10.8	11.3	10.5	10.8	11.0	10.8
Unemployment rate .....	3.0	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.8	2.8	2.7	2.8	2.7
<b>Tennessee</b>													
Civilian labor force .....	2,680.3	2,689.8	2,701.5	2,699.4	2,712.0	2,731.5	2,753.6	2,775.2	2,782.4	2,776.9	2,781.4	2,790.0	2,778.6
Employed .....	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	2,656.8	2,650.8	2,657.2	2,658.2
Unemployed .....	146.6	150.7	153.7	144.2	146.9	141.9	142.5	140.6	121.9	120.3	130.7	132.9	120.4
Unemployment rate .....	5.5	5.8	5.7	5.3	5.4	5.2	5.2	5.1	4.4	4.3	4.7	4.8	4.3
<b>Texas</b>													
Civilian labor force .....	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	10,022.0	10,051.2	10,070.5	10,101.4
Employed .....	9,310.3	9,328.2	9,345.7	9,389.9	9,397.6	9,425.5	9,454.0	9,469.4	9,520.9	9,558.1	9,581.3	9,611.9	9,642.6
Unemployed .....	538.0	541.9	538.2	531.7	524.9	518.8	501.3	490.5	490.9	463.9	469.9	458.7	458.8
Unemployment rate .....	5.5	5.5	5.4	5.4	5.3	5.2	5.0	4.9	4.9	4.6	4.7	4.6	4.5
<b>Utah</b>													
Civilian labor force .....	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	1,079.5	1,077.5	1,080.1	1,080.1
Employed .....	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	1,048.4	1,043.9	1,045.5	1,047.2
Unemployed .....	32.3	32.9	32.3	32.5	32.1	31.9	31.1	30.9	30.9	31.1	33.8	34.6	32.9
Unemployment rate .....	3.1	3.2	3.1	3.1	3.1	3.0	2.9	2.9	2.9	2.9	3.1	3.2	3.0
<b>Vermont</b>													
Civilian labor force .....	324.2	324.7	325.4	325.9	326.4	328.5	329.3	330.3	329.2	330.8	331.8	330.2	328.9
Employed .....	311.3	311.9	312.7	313.3	313.8	315.9	318.9	318.0	317.2	319.3	320.4	319.8	317.7
Unemployed .....	12.8	12.8	12.7	12.7	12.8	12.6	12.4	12.3	12.0	11.5	11.4	10.6	11.2
Unemployment rate .....	4.0	3.9	3.9	3.9	3.9	3.8	3.8	3.7	3.8	3.5	3.4	3.2	3.4
<b>Virginia</b>													
Civilian labor force .....	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	3,547.6	3,554.8	3,540.2	3,555.2
Employed .....	3,223.0	3,236.7	3,252.9	3,278.3	3,302.9	3,338.8	3,376.1	3,417.2	3,424.7	3,431.8	3,436.2	3,440.8	3,449.4
Unemployed .....	139.5	139.0	136.8	134.7	132.1	127.1	124.8	121.2	116.4	115.8	118.6	99.4	105.9
Unemployment rate .....	4.1	4.1	4.0	4.0	3.8	3.7	3.6	3.4	3.3	3.3	3.3	2.8	3.0
<b>Washington</b>													
Civilian labor force .....	2,984.7	2,995.7	3,015.2	3,009.7	3,006.9	3,011.2	3,010.2	3,016.0	3,012.2	3,009.4	3,025.7	3,000.0	3,044.7
Employed .....	2,841.7	2,854.1	2,875.0	2,869.9	2,867.6	2,875.3	2,877.7	2,882.4	2,877.8	2,884.7	2,900.7	2,874.2	2,911.0
Unemployed .....	143.0	141.7	140.2	139.7	141.3	135.8	132.6	133.6	134.6	124.8	125.0	125.9	133.7
Unemployment rate .....	4.8	4.7	4.7	4.6	4.7	4.5	4.4	4.4	4.5	4.1	4.1	4.2	4.4
<b>West Virginia</b>													
Civilian labor force .....	800.1	803.7	803.4	802.2	801.7	804.6	805.0	802.7	802.9	800.4	807.0	806.2	810.1
Employed .....	746.6	748.3	747.9	747.4	747.6	750.8	752.1	751.0	753.7	754.2	752.0	752.9	758.2
Unemployed .....	53.5	55.4	55.5	54.7	54.1	53.8	52.9	51.6	49.2	46.2	55.1	53.4	51.9
Unemployment rate .....	6.7	6.9	6.9	6.8	6.7	6.7	6.6	6.4	6.1	5.8	6.8	6.6	6.4
<b>Wisconsin</b>													
Civilian labor force .....	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	2,962.7	2,957.6	2,947.9	2,949.2
Employed .....	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	2,875.3	2,866.5	2,878.4	2,870.9
Unemployed .....	107.5	109.7	110.1	108.9	107.4	105.1	103.8	103.2	93.8	87.3	91.1	69.4	78.3
Unemployment rate .....	3.7	3.8	3.8	3.7	3.7	3.6	3.5	3.5	3.2	2.9	3.1	2.4	2.7
<b>Wyoming</b>													
Civilian labor force .....	248.5	248.4	249.7	250.1	250.5	252.1	253.0	254.9	254.0	254.2	255.0	254.8	256.3
Employed .....	235.8	235.5	236.9	237.5	238.2	240.1	241.4	243.5	243.5	244.0	244.3	244.2	245.0
Unemployed .....	12.7	12.9	12.6	12.6	12.3	12.1	11.6	11.4	10.6	10.2	10.7	10.5	11.3
Unemployment rate .....	5.1	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.2	4.0	4.2	4.1	4.4

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			
	April		May		April		May		April		May	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Alabama</b> .....	2,177.3	2,134.3	2,180.3	2,140.2	108.1	72.8	103.4	75.9	5.0	3.4	4.7	3.5
Anniston .....	55.4	53.2	55.2	53.4	2.8	2.0	2.7	2.2	5.1	3.7	4.9	4.1
Birmingham .....	469.7	468.8	470.5	469.7	15.3	10.4	14.9	10.9	3.3	2.2	3.2	2.3
Decatur .....	72.2	71.0	72.3	71.4	3.8	2.3	3.6	2.4	5.3	3.2	5.0	3.3
Dothan .....	67.4	66.3	67.5	66.7	3.2	1.7	3.2	2.0	4.8	2.6	4.7	3.0
Florence .....	71.6	69.9	71.8	70.3	4.8	4.7	4.5	4.1	6.7	6.7	6.3	5.9
Gadsden .....	50.6	50.2	50.9	50.8	2.7	1.6	2.5	1.9	5.4	3.1	4.8	3.8
Huntsville .....	169.3	170.5	170.0	170.3	5.1	4.1	4.8	4.2	3.0	2.4	2.8	2.5
Mobile .....	270.7	267.1	272.0	267.2	13.4	8.1	12.7	8.4	5.0	3.0	4.7	3.2
Montgomery .....	162.0	158.1	162.0	159.0	6.8	4.2	6.4	4.8	4.2	2.6	4.0	2.9
Tuscaloosa .....	83.0	84.5	82.9	84.2	2.8	1.8	2.7	1.9	3.3	2.1	3.3	2.3
<b>Alaska</b> .....	310.2	310.8	313.6	317.8	27.1	18.8	24.3	18.5	8.7	6.1	7.8	5.8
Anchorage .....	135.9	139.2	136.1	140.4	8.4	6.1	7.7	5.9	6.2	4.4	5.6	4.2
<b>Arizona</b> .....	2,117.5	2,244.5	2,139.7	2,261.6	91.2	85.6	96.7	87.6	4.3	3.8	4.5	3.9
Flagstaff .....	57.0	58.2	57.7	58.3	4.0	3.9	4.3	3.5	7.1	6.7	7.4	6.0
Phoenix-Mesa .....	1,387.7	1,485.8	1,400.6	1,496.8	38.7	35.3	41.2	35.4	2.8	2.4	2.9	2.4
Tucson .....	354.1	387.3	357.3	369.7	10.5	9.7	11.1	9.7	3.0	2.6	3.1	2.6
Yuma .....	62.3	64.5	63.0	67.8	17.5	17.3	18.4	21.1	28.0	26.8	29.2	31.2
<b>Arkansas</b> .....	1,195.7	1,246.4	1,202.5	1,252.5	58.8	60.6	59.1	61.9	4.9	4.9	4.9	4.9
Fayetteville-Springdale-Rogers .....	135.6	141.4	138.2	142.1	3.9	4.4	4.0	4.3	2.9	3.1	2.9	3.0
Fort Smith .....	93.7	96.6	94.3	97.0	4.5	4.3	4.5	4.6	4.8	4.5	4.8	4.7
Jonesboro .....	39.4	41.8	39.5	41.9	1.6	1.6	1.6	1.6	4.1	3.9	4.0	3.9
Little Rock-North Little Rock .....	290.1	303.8	292.2	304.6	10.5	10.7	10.9	11.1	3.6	3.5	3.7	3.6
Pine Bluff .....	35.5	36.6	36.0	36.7	2.6	2.6	2.7	2.7	7.2	7.1	7.6	7.3
<b>California</b> .....	15,803.9	16,109.3	15,858.8	16,155.8	991.6	936.8	945.2	883.8	6.3	5.8	6.0	5.5
Bakersfield .....	278.7	282.8	282.8	281.5	33.3	34.6	29.3	30.8	11.9	12.2	10.4	10.9
Chico-Paradise .....	84.9	86.5	85.1	86.1	7.4	7.8	7.0	7.0	8.8	8.7	8.3	8.1
Fresno .....	428.0	438.1	430.0	443.1	58.8	65.1	51.7	58.4	13.7	14.9	12.0	13.2
Los Angeles-Long Beach .....	4,451.6	4,562.3	4,464.8	4,548.5	302.8	284.8	298.3	277.4	6.8	6.2	6.7	6.1
Merced .....	83.2	84.7	83.7	83.7	14.2	14.5	12.8	12.3	17.0	17.1	15.0	14.7
Modesto .....	196.9	200.7	201.5	203.9	28.5	26.6	27.8	25.8	14.5	13.2	13.7	12.6
Oakland .....	1,161.2	1,177.6	1,162.8	1,181.3	48.8	44.3	49.3	43.2	4.2	3.8	4.2	3.7
Orange County .....	1,362.1	1,401.5	1,367.3	1,409.3	43.2	38.0	43.8	37.7	3.2	2.7	3.2	2.7
Redding .....	71.9	72.0	72.4	72.1	6.9	6.9	6.1	6.2	9.5	9.6	8.4	8.6
Riverside-San Bernardino .....	1,341.3	1,377.2	1,345.8	1,389.8	86.5	78.9	85.6	76.7	6.4	5.6	6.4	5.5
Sacramento .....	730.7	740.2	732.2	742.9	38.4	35.9	38.9	35.3	5.3	4.8	5.3	4.8
Salinas .....	183.9	184.7	183.0	182.3	20.9	20.8	14.4	14.8	11.4	11.3	7.9	8.1
San Diego .....	1,267.9	1,281.1	1,269.5	1,287.7	53.8	42.9	52.8	41.7	4.2	3.3	4.2	3.2
San Francisco .....	924.8	928.7	922.8	932.8	29.2	26.5	29.5	25.6	3.2	2.9	3.2	2.7
San Jose .....	922.8	951.0	924.3	955.0	28.6	27.3	28.1	26.5	3.1	2.9	3.0	2.8
San Luis Obispo-Atascadero-Paso Robles .....	107.5	108.4	107.3	109.3	4.6	4.6	4.2	4.2	4.3	4.3	3.9	3.9
Santa Barbara-Santa Maria-Lompoc .....	197.1	194.2	198.4	194.9	9.4	8.4	7.9	6.9	4.6	4.3	4.0	3.5
Santa Cruz-Watsonville .....	144.1	149.0	145.2	149.7	12.5	12.1	8.7	8.4	8.6	8.1	6.0	5.6
Santa Rosa .....	237.2	242.6	238.5	243.4	9.1	8.3	8.5	7.5	3.8	3.4	3.6	3.1
Stockton-Lodi .....	243.8	246.5	248.9	248.8	27.1	27.2	24.7	25.4	11.1	11.0	9.9	10.2
Vallejo-Fairfield-Napa .....	233.8	241.7	237.0	243.8	14.4	12.5	14.1	11.8	6.1	5.2	6.0	4.9
Ventura .....	382.4	383.2	381.5	385.7	21.1	17.1	21.2	17.0	5.5	4.5	5.6	4.4
Visalia-Tulare-Porterville .....	160.5	163.2	160.7	163.8	22.6	25.5	18.9	21.2	14.1	15.8	11.8	12.9
Yolo .....	65.8	66.4	66.8	67.2	4.8	5.1	4.3	4.1	5.8	5.9	4.9	4.7
Yuba City .....	56.3	57.0	56.9	57.2	8.9	10.1	8.2	8.8	15.8	17.6	14.4	15.4
<b>Colorado</b> .....	2,102.8	2,205.2	2,128.9	2,228.2	64.6	67.6	71.1	72.2	3.1	3.1	3.3	3.2
Boulder-Longmont .....	162.0	170.2	164.7	172.4	4.2	4.1	4.6	4.7	2.6	2.4	2.8	2.7
Colorado Springs .....	238.7	245.9	243.5	251.8	8.1	8.8	8.9	9.3	3.4	3.6	3.7	3.7
Denver .....	1,059.0	1,111.0	1,074.4	1,129.5	28.5	27.9	30.3	29.3	2.7	2.5	2.8	2.6
Fort Collins-Loveland .....	129.5	136.2	133.0	138.0	3.9	3.9	4.2	4.1	3.0	2.8	3.1	3.0
Grand Junction .....	54.8	57.7	58.0	58.4	2.2	2.2	2.3	2.3	4.0	3.8	4.1	4.0
Greeley .....	78.3	82.3	80.3	83.4	2.8	2.8	3.1	3.0	3.5	3.4	3.8	3.8
Pueblo .....	57.8	62.4	59.3	63.3	2.4	3.8	2.7	4.1	4.2	6.2	4.5	8.5
<b>Connecticut</b> .....	1,707.6	1,700.2	1,716.6	1,718.1	88.5	62.4	89.6	63.7	5.2	3.7	5.2	3.7
Bridgeport .....	218.0	215.0	219.2	217.2	13.3	9.1	13.3	9.7	6.1	4.2	8.0	4.5
Danbury .....	106.7	108.1	107.4	108.5	3.6	2.9	3.7	2.8	3.3	2.7	3.4	2.4
Hartford .....	585.6	578.0	587.7	582.6	31.4	21.1	32.0	22.1	5.4	3.6	5.4	3.8
New Haven-Meriden .....	273.7	268.1	272.1	268.4	15.6	10.1	14.9	10.0	5.7	3.8	5.5	3.7
New London-Norwich .....	150.7	152.3	153.5	154.7	7.9	6.6	8.9	6.6	5.3	4.3	5.8	4.2
Stamford-Norwalk .....	189.9	193.8	191.5	196.4	5.9	4.5	6.2	4.8	3.1	2.3	3.3	2.4
Waterbury .....	116.0	117.2	117.6	119.5	7.3	5.2	7.0	5.2	8.3	4.4	8.0	4.3
<b>Delaware</b> .....	371.9	388.9	373.0	390.5	14.6	13.2	13.8	13.8	3.9	3.4	3.6	3.5
Dover .....	85.5	88.8	85.8	89.2	2.9	2.7	2.7	2.9	4.4	3.9	4.1	4.3
Wilmington-Newark .....	281.8	292.2	281.1	291.4	11.8	10.7	11.6	10.7	4.2	3.7	4.1	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			
	April		May		April		May		April		May	
	1997	1998	1997	1998 <sup>P</sup>	1997	1998	1997	1998 <sup>P</sup>	1997	1998	1997	1998 <sup>P</sup>
<b>District of Columbia</b> .....	255.0	265.2	253.8	263.8	18.2	22.1	19.2	21.3	7.2	8.3	7.6	8.1
Washington .....	2,482.3	2,564.0	2,483.2	2,578.9	86.2	75.0	90.3	79.4	3.5	2.9	3.6	3.1
<b>Florida</b> .....	6,983.1	7,242.5	7,077.5	7,313.3	316.7	317.5	330.1	312.5	4.5	4.4	4.7	4.3
Daytona Beach .....	184.9	190.3	186.7	191.3	6.9	6.9	7.1	8.7	3.7	3.6	3.8	3.5
Fort Lauderdale .....	734.6	762.5	745.9	770.6	35.8	37.9	37.0	36.4	4.9	5.0	5.0	4.7
Fort Myers-Cape Coral .....	170.1	172.5	170.2	172.5	5.8	5.3	5.4	5.4	3.4	3.1	3.2	3.1
Fort Pierce-Port St. Lucie .....	118.9	121.2	119.3	122.4	8.8	8.0	9.3	8.8	7.4	6.6	7.8	7.2
Fort Walton Beach .....	77.2	80.3	79.3	82.5	2.6	2.7	2.6	2.8	3.3	3.4	3.2	3.2
Gainesville .....	100.2	103.4	101.2	104.2	2.8	2.9	3.1	2.9	2.8	2.8	3.0	2.8
Jacksonville .....	518.3	541.5	530.4	550.2	18.0	17.9	19.0	17.7	3.5	3.3	3.6	3.2
Lakeland-Winter Haven .....	193.0	196.3	194.9	198.3	10.3	8.9	10.9	9.5	5.3	4.8	5.6	4.8
Melbourne-Titusville-Palm Bay .....	199.5	204.3	201.1	206.6	9.3	9.2	9.0	8.8	4.6	4.5	4.5	4.3
Miami .....	1,024.9	1,043.2	1,037.6	1,051.1	73.0	72.3	76.0	71.1	7.1	6.9	7.3	6.8
Naples .....	85.2	89.0	85.5	88.8	3.1	2.9	3.6	3.1	3.6	3.2	4.2	3.5
Ocala .....	92.2	95.2	93.4	95.9	4.2	3.9	4.3	4.1	4.5	4.1	4.6	4.3
Orlando .....	794.4	833.0	808.4	845.3	26.2	25.7	26.9	25.1	3.3	3.1	3.3	3.0
Panama City .....	65.4	67.5	66.6	68.4	3.7	3.9	3.7	3.7	5.7	5.8	5.6	5.3
Pensacola .....	166.0	172.3	168.5	174.2	6.8	7.5	6.9	7.1	4.0	4.3	4.1	4.1
Punta Gorda .....	45.6	46.4	45.7	46.2	1.8	1.7	1.7	1.4	4.0	3.7	3.6	3.0
Sarasota-Bradenton .....	256.8	277.8	260.6	281.4	6.9	7.0	6.5	6.2	2.7	2.5	2.5	2.2
Tallahassee .....	140.7	143.2	141.9	145.3	4.1	4.6	4.6	5.0	2.9	3.2	3.2	3.4
Tampa-St. Petersburg-Clearwater .....	1,111.3	1,160.6	1,124.8	1,171.0	37.9	37.9	39.3	36.7	3.4	3.3	3.5	3.1
West Palm Beach-Boca Raton .....	474.8	496.8	479.9	498.1	26.9	27.8	28.7	27.1	5.7	5.6	6.0	5.4
<b>Georgia</b> .....	3,876.7	3,940.6	3,893.8	3,940.2	166.7	141.7	172.5	148.0	4.3	3.6	4.4	3.8
Albany .....	57.3	57.5	57.5	57.1	3.4	3.9	3.6	4.1	5.9	6.8	6.3	7.1
Athens .....	73.3	74.5	73.4	74.7	1.9	2.0	2.0	1.9	2.6	2.7	2.7	2.6
Atlanta .....	2,040.9	2,087.7	2,053.3	2,086.9	72.9	59.4	74.9	61.9	3.6	2.8	3.6	3.0
Augusta-Aiken .....	204.5	202.7	204.3	202.1	11.7	8.9	12.0	9.7	5.7	4.4	5.9	4.8
Columbus .....	122.0	122.8	122.8	122.6	5.5	4.9	5.9	5.2	4.5	4.0	4.8	4.3
Macon .....	151.8	153.9	151.9	153.4	7.0	7.1	7.0	7.3	4.6	4.8	4.6	4.8
Savannah .....	133.8	133.8	133.8	133.1	6.3	4.8	6.3	5.1	4.7	3.6	4.7	3.8
<b>Hawaii</b> .....	590.9	592.7	588.5	591.2	39.2	31.7	38.9	34.5	6.6	5.3	6.6	5.8
Honolulu .....	425.3	426.3	424.3	424.4	23.0	19.4	22.6	20.9	5.4	4.5	5.3	4.9
<b>Idaho</b> .....	623.4	639.9	632.7	646.8	36.0	35.1	32.8	29.1	5.8	5.5	5.2	4.5
Boise City .....	210.4	216.3	210.7	215.8	8.1	8.1	7.3	7.4	3.9	3.7	3.5	3.4
Pocatello .....	38.9	40.1	38.6	40.0	2.0	2.0	2.1	1.7	5.2	5.0	5.4	4.4
<b>Illinois</b> .....	6,076.9	6,109.4	6,099.0	6,120.7	279.8	252.5	259.8	230.4	4.6	4.1	4.3	3.8
Bloomington-Normal .....	81.0	83.3	80.1	82.5	2.0	2.0	1.8	1.7	2.4	2.4	2.3	2.1
Champaign-Urbana .....	93.7	93.6	93.9	93.8	2.6	2.4	2.5	2.2	2.7	2.6	2.6	2.4
Chicago .....	4,038.5	4,067.6	4,061.3	4,081.1	181.2	161.6	168.8	147.9	4.5	4.0	4.2	3.6
Davenport-Moline-Rock Island .....	182.1	185.2	182.0	186.1	6.9	5.8	6.0	4.8	3.8	3.1	3.3	2.6
Decatur .....	58.4	57.8	58.8	57.7	4.1	3.1	3.9	2.8	7.0	5.3	6.6	4.8
Kankakee .....	51.3	51.5	51.3	51.3	2.9	2.9	2.6	2.5	5.7	5.7	5.1	4.9
Peoria-Pekin .....	179.7	180.4	180.4	181.3	7.9	5.9	7.0	5.2	4.4	3.2	3.9	2.9
Rockford .....	193.6	194.6	194.5	195.2	8.0	7.6	7.5	6.8	4.1	3.9	3.9	3.5
Springfield .....	105.1	105.5	105.4	105.7	4.2	3.8	3.9	3.5	4.0	3.6	3.7	3.3
<b>Indiana</b> .....	3,083.5	3,114.1	3,116.1	3,118.2	109.7	90.3	104.8	86.6	3.6	2.9	3.4	2.8
Bloomington .....	62.6	63.5	61.7	62.0	1.4	1.7	1.4	1.7	2.2	2.7	2.3	2.8
Elkhart-Goshen .....	94.0	94.0	95.5	93.7	2.9	2.2	2.8	2.2	3.0	2.3	2.9	2.3
Evansville-Henderson .....	156.9	155.8	158.2	157.4	7.1	5.6	6.6	5.9	4.5	3.6	4.2	3.7
Fort Wayne .....	263.8	266.5	267.4	267.1	7.7	6.3	7.4	6.2	2.9	2.4	2.8	2.3
Gary .....	304.3	304.1	306.4	303.1	13.6	10.9	12.8	9.9	4.5	3.6	4.2	3.3
Indianapolis .....	821.4	841.1	831.2	842.5	22.9	19.9	22.4	19.4	2.8	2.4	2.7	2.3
Kokomo .....	51.2	52.6	52.0	52.9	1.6	1.4	1.6	1.3	3.2	2.7	3.1	2.5
Lafayette .....	89.7	91.9	89.3	90.8	2.1	2.0	1.9	2.0	2.4	2.1	2.2	2.2
Muncie .....	64.0	63.9	64.2	63.7	2.5	2.6	2.3	2.4	4.0	4.1	3.6	3.8
South Bend .....	136.0	136.6	137.5	137.0	4.6	3.5	4.3	3.5	3.4	2.6	3.1	2.5
Terre Haute .....	73.0	71.6	72.3	70.3	4.4	3.6	4.3	3.5	6.0	5.0	5.9	4.9
<b>Iowa</b> .....	1,571.9	1,577.3	1,572.9	1,581.6	54.7	38.7	44.7	31.9	3.5	2.5	2.8	2.0
Cedar Rapids .....	108.3	111.0	107.0	111.2	3.2	2.0	2.6	1.7	3.0	1.8	2.4	1.5
Des Moines .....	251.0	252.6	250.2	251.0	7.0	4.7	6.1	3.9	2.8	1.9	2.4	1.6
Dubuque .....	49.4	50.3	49.4	49.9	2.2	1.5	1.7	1.1	4.5	2.9	3.5	2.3
Iowa City .....	65.5	67.3	65.2	67.1	1.6	1.2	1.5	1.1	2.4	1.8	2.2	1.7
Sioux City .....	65.2	65.0	65.0	65.4	2.6	1.7	2.2	1.5	4.0	2.6	3.3	2.3
Waterloo-Cedar Falls .....	68.7	69.7	68.0	69.4	2.8	2.1	2.4	1.7	4.1	3.0	3.5	2.5

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			
	April		May		April		May		April		May	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Kansas</b> .....	1,341.2	1,405.1	1,341.5	1,409.9	51.1	46.4	47.9	46.7	3.8	3.3	3.6	3.3
Lawrence .....	53.2	55.7	53.1	56.0	2.2	2.0	2.1	2.2	4.1	3.6	3.9	3.9
Topeka .....	87.0	88.6	85.1	88.5	4.0	3.3	3.8	3.2	4.6	3.7	4.5	3.7
Wichita .....	269.2	284.1	269.1	284.9	9.4	7.7	9.0	8.1	3.5	2.7	3.3	2.8
<b>Kentucky</b> .....	1,906.2	1,924.8	1,934.2	1,947.0	102.8	75.5	105.4	79.3	5.4	3.9	5.4	4.1
Lexington .....	250.0	258.8	252.3	259.8	8.7	4.7	8.7	4.6	2.7	1.8	2.7	1.8
Louisville .....	540.2	555.7	550.5	562.1	21.9	15.8	26.0	16.9	4.0	2.8	4.7	3.0
Owensboro .....	49.1	49.3	49.8	50.5	2.9	1.6	3.0	2.3	5.9	3.3	8.1	4.5
<b>Louisiana</b> .....	2,007.4	2,042.8	2,012.1	2,069.7	113.4	101.5	119.9	99.3	5.6	5.0	6.0	4.8
Alexandria .....	58.1	58.9	58.0	59.8	3.2	2.8	3.3	2.8	5.5	4.5	5.7	4.6
Baton Rouge .....	287.5	296.0	285.7	298.7	13.8	11.7	14.6	11.8	4.8	4.0	5.1	3.9
Houma .....	88.0	93.6	88.3	95.0	3.1	2.8	3.0	2.6	3.5	2.9	3.4	2.7
Lafayette .....	173.0	179.4	173.8	181.9	8.3	8.8	8.4	8.5	4.8	4.9	4.6	4.7
Lake Charles .....	90.8	91.4	90.2	92.4	5.3	4.2	5.5	4.0	5.9	4.6	6.1	4.4
Monroe .....	69.9	70.1	69.6	70.5	4.1	3.2	4.3	3.2	5.8	4.6	6.1	4.5
New Orleans .....	612.8	619.2	613.4	626.5	30.3	26.6	31.6	26.8	5.0	4.3	5.2	4.3
Shreveport-Bossier City .....	183.1	188.3	187.3	190.1	11.4	10.1	16.0	9.7	6.2	5.4	8.6	5.1
<b>Maine</b> .....	650.7	644.7	656.3	652.4	40.8	30.1	35.2	24.1	6.2	4.7	5.4	3.7
Bangor .....	50.3	50.7	49.2	51.2	2.4	1.6	2.1	1.2	4.7	3.1	4.2	2.4
Lewiston-Auburn .....	51.0	50.8	50.6	51.0	3.2	2.4	2.7	1.9	6.3	4.8	5.4	3.7
Portland .....	130.6	130.4	130.6	130.8	3.9	3.1	3.6	2.6	3.0	2.4	2.7	2.0
<b>Maryland</b> .....	2,758.5	2,761.2	2,783.3	2,776.4	132.9	115.0	138.8	121.5	4.8	4.2	5.0	4.4
Baltimore .....	1,305.8	1,305.3	1,318.6	1,312.5	69.1	59.6	74.0	64.5	5.3	4.6	5.6	4.9
Cumberland .....	45.7	45.9	46.0	47.0	3.8	3.3	3.5	3.2	8.3	7.2	7.6	6.7
Hagerstown .....	69.4	71.0	69.9	72.2	3.1	2.8	3.0	2.7	4.4	3.7	4.3	3.7
<b>Massachusetts</b> .....	3,231.4	3,213.0	3,248.7	3,245.0	131.9	92.6	122.9	107.4	4.1	2.9	3.8	3.3
Barnstable-Yarmouth .....	88.9	88.8	72.7	72.1	3.9	2.7	3.1	2.7	5.6	4.0	4.3	3.7
Boston .....	1,793.9	1,788.2	1,799.6	1,800.6	60.9	43.0	59.2	50.4	3.4	2.4	3.3	2.8
Brockton .....	131.3	130.1	131.4	130.8	6.2	4.2	6.0	5.0	4.7	3.2	4.8	3.9
Fitchburg-Leominster .....	70.4	69.4	70.4	69.8	3.4	2.2	3.2	2.5	4.9	3.1	4.5	3.6
Lawrence .....	196.4	195.5	197.6	198.1	9.8	7.6	9.7	8.8	5.0	3.9	4.9	4.5
Lowell .....	161.0	164.4	161.9	164.7	6.2	4.5	5.6	5.2	3.8	2.7	3.6	3.2
New Bedford .....	81.3	79.9	81.0	80.6	8.3	4.8	5.4	5.0	7.8	5.8	6.7	6.2
Pittsfield .....	39.6	38.9	39.9	39.7	2.4	1.5	2.0	1.7	6.1	4.0	5.0	4.3
Springfield .....	283.7	283.5	284.0	285.6	11.9	9.3	10.9	11.0	4.2	3.3	3.8	3.8
Worcester .....	248.1	246.1	248.8	247.8	9.3	6.9	8.8	8.1	3.8	2.8	3.5	3.3
<b>Michigan</b> .....	4,916.1	4,964.0	4,997.6	5,047.8	210.3	170.0	190.3	168.8	4.3	3.4	3.8	3.3
Ann Arbor .....	288.0	292.8	288.0	292.5	7.8	5.5	6.3	5.6	2.6	1.9	2.2	1.9
Benton Harbor .....	82.5	82.0	84.5	83.8	4.2	3.4	4.2	3.6	5.0	4.1	5.0	4.3
Detroit .....	2,204.5	2,234.6	2,238.1	2,266.8	64.4	68.5	77.7	69.9	3.8	3.1	3.5	3.1
Flint .....	201.8	202.3	204.8	205.7	10.7	9.0	10.8	9.1	5.3	4.4	5.3	4.4
Grand Rapids-Muskegon-Holland .....	573.8	585.2	585.4	595.6	17.9	15.2	18.0	15.8	3.1	2.6	3.1	2.6
Jackson .....	75.8	75.9	77.1	77.6	3.4	2.5	3.2	2.6	4.5	3.3	4.1	3.3
Kalamazoo-Battle Creek .....	228.6	228.4	230.0	230.3	8.5	7.0	8.3	7.1	3.7	3.0	3.6	3.1
Lansing-East Lansing .....	241.9	242.6	246.1	242.6	6.9	5.8	6.5	6.9	2.9	2.4	2.6	2.8
Saginaw-Bay City-Midland .....	197.9	198.9	201.6	202.9	8.8	8.1	8.2	7.7	4.4	4.1	4.1	3.8
<b>Minnesota</b> .....	2,592.2	2,680.5	2,605.9	2,693.8	94.6	72.5	72.5	58.7	3.6	2.7	2.8	2.2
Duluth-Superior .....	121.6	124.9	122.3	125.3	7.3	5.6	6.0	4.6	6.0	4.5	4.9	3.7
Minneapolis-St. Paul .....	1,612.0	1,679.7	1,619.4	1,681.7	41.4	33.0	34.8	26.9	2.6	2.0	2.2	1.7
Rochester .....	65.0	68.2	65.1	68.5	1.5	1.2	1.2	1.0	2.4	1.7	1.9	1.5
St. Cloud .....	92.7	94.6	92.8	95.0	4.5	3.0	3.1	2.3	4.9	3.1	3.4	2.5
<b>Mississippi</b> .....	1,245.3	1,271.7	1,260.4	1,285.7	64.1	80.9	73.4	68.0	5.1	4.8	5.8	5.3
Biloxi-Gulfport-Pascagoula .....	158.4	163.0	159.5	164.8	7.9	5.9	8.6	6.7	5.0	3.6	5.4	4.0
Hattiesburg .....	49.9	51.6	50.5	52.0	1.4	1.5	1.6	1.6	2.9	2.8	3.1	3.2
Jackson .....	218.7	228.1	221.8	230.2	7.0	8.7	8.0	7.8	3.2	2.9	3.6	3.4
<b>Missouri</b> .....	2,884.1	2,910.3	2,890.5	2,923.9	120.7	124.2	111.9	121.8	4.2	4.3	3.9	4.2
Columbia .....	81.2	81.2	81.8	81.9	1.1	1.2	1.1	1.3	1.4	1.5	1.3	1.5
Joplin .....	80.7	81.0	80.8	81.5	3.0	3.2	2.9	3.4	3.7	4.0	3.8	4.2
Kansas City .....	948.3	966.5	947.5	988.0	37.7	35.4	32.4	34.9	4.0	3.6	3.4	3.5
St. Joseph .....	49.0	49.7	49.0	49.9	2.8	2.5	2.3	2.4	5.2	5.1	4.6	4.9
St. Louis LMA .....	1,344.9	1,353.0	1,340.9	1,351.8	51.3	58.4	51.4	56.6	3.8	4.3	3.8	4.2
Springfield .....	168.2	189.9	168.8	170.7	5.5	5.5	5.4	5.5	3.3	3.2	3.2	3.2
<b>Montana</b> .....	451.6	462.8	452.8	465.1	24.6	25.1	22.1	23.8	5.5	5.4	4.9	5.1
Billings .....	68.7	70.4	68.4	70.1	3.1	2.9	2.8	2.9	4.5	4.1	4.2	4.2
Great Falls .....	37.8	37.8	37.7	37.9	2.0	1.9	1.8	1.9	5.3	5.0	4.8	5.0

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			
	April		May		April		May		April		May	
	1997	1998	1997	1998P	1997	1998	1997	1998P	1997	1998	1997	1998P
<b>Texas—Continued</b>												
Texarkana .....	56.2	57.2	56.6	57.5	4.0	3.9	4.2	4.0	7.1	6.8	7.5	6.9
Tyler .....	87.6	69.4	87.8	89.7	4.6	4.0	4.7	4.1	5.3	4.4	5.3	4.6
Victoria .....	42.8	43.3	43.0	44.0	2.2	1.7	2.2	1.8	5.1	4.0	5.1	4.2
Waco .....	99.1	101.2	98.4	100.4	4.2	4.0	4.4	4.2	4.2	4.0	4.4	4.1
Wichita Falls .....	65.5	66.1	65.6	66.3	2.7	2.7	2.7	2.8	4.2	4.1	4.0	4.2
<b>Utah</b> .....	1,012.7	1,064.5	1,021.4	1,070.5	30.6	32.6	30.2	30.6	3.0	3.1	3.0	2.9
Provo-Orem .....	151.2	157.8	148.2	154.6	3.8	4.1	3.7	3.7	2.5	2.6	2.5	2.4
Salt Lake City-Ogden .....	649.5	685.1	658.6	691.5	18.3	20.0	18.4	18.8	2.8	2.9	2.8	2.7
<b>Vermont</b> .....	320.4	327.0	322.0	328.8	13.9	11.3	12.0	10.5	4.3	3.5	3.7	3.2
Burlington .....	95.8	99.3	96.8	99.4	2.8	2.0	2.3	2.0	2.9	2.0	2.4	2.0
<b>Virginia</b> .....	3,339.3	3,531.2	3,367.3	3,561.5	126.6	90.4	138.8	105.2	3.8	2.6	4.1	3.0
Charlottesville .....	71.6	75.2	70.4	75.5	1.5	0.8	1.7	1.1	2.1	1.1	2.4	1.5
Danville .....	55.2	58.2	56.0	58.7	3.5	3.0	4.2	3.5	6.3	5.2	7.4	5.9
Lynchburg .....	99.4	103.2	99.0	103.2	3.6	2.3	3.7	2.8	3.6	2.2	3.8	2.7
Norfolk-Virginia Beach-Newport News .....	705.9	739.2	715.9	748.5	32.4	22.0	37.0	27.1	4.6	3.0	5.2	3.6
Richmond-Petersburg .....	486.7	522.1	488.5	522.8	15.8	11.8	17.7	13.8	3.2	2.3	3.8	2.6
Roanoke .....	124.4	128.9	125.3	129.8	4.4	2.8	4.5	3.3	3.5	2.2	3.6	2.5
<b>Washington</b> .....	2,954.4	2,977.6	2,979.0	3,039.2	146.7	123.9	133.2	123.9	5.0	4.2	4.5	4.1
Bellingham .....	77.9	78.1	78.5	79.3	4.4	3.9	4.2	3.9	5.7	5.0	5.4	4.9
Bremerton .....	92.6	89.3	92.9	90.8	4.9	4.1	4.8	4.2	5.3	4.6	5.1	4.6
Olympia .....	97.6	99.1	97.7	100.9	4.9	4.2	4.6	4.3	5.0	4.3	4.7	4.3
Richland-Kennewick-Pasco .....	93.5	91.1	95.8	94.6	6.6	6.0	6.1	5.7	7.0	6.6	6.4	6.1
Seattle-Bellevue-Everett .....	1,328.2	1,359.9	1,337.8	1,388.0	45.8	37.2	43.5	37.5	3.5	2.7	3.2	2.7
Spokane .....	205.7	205.6	207.8	209.2	9.6	7.9	8.5	7.8	4.7	3.9	4.1	3.7
Tacoma .....	328.5	329.1	328.9	335.4	15.0	13.1	14.2	13.5	4.6	4.0	4.3	4.0
Yakima .....	111.8	109.1	114.1	113.0	12.8	10.7	10.2	9.9	11.5	9.8	9.0	8.7
<b>West Virginia</b> .....	800.1	800.8	805.8	815.7	57.6	53.9	51.3	49.5	7.2	6.7	6.4	6.1
Charleston .....	129.6	130.9	130.8	132.9	6.5	6.1	5.9	5.8	5.0	4.7	4.5	4.3
Huntington-Ashland .....	137.0	138.1	137.9	139.2	9.2	8.3	9.2	8.3	6.7	6.0	6.7	6.0
Parkersburg-Marletta .....	76.3	77.6	77.0	78.3	4.3	4.5	3.9	4.5	5.6	5.7	5.1	5.7
Wheeling .....	74.2	73.4	74.4	75.1	6.2	3.8	5.4	3.7	8.3	5.2	7.2	4.9
<b>Wisconsin</b> .....	2,896.7	2,925.4	2,913.0	2,941.7	117.7	78.7	102.9	73.8	4.1	2.7	3.5	2.5
Appleton-Oshkosh-Neenah .....	219.4	224.8	220.1	224.5	7.4	5.3	6.3	4.8	3.4	2.4	2.9	2.1
Eau Claire .....	82.5	83.0	82.5	83.5	3.6	2.2	2.7	1.9	4.4	2.6	3.3	2.3
Green Bay .....	131.0	130.5	131.4	130.8	4.5	2.9	4.2	2.9	3.4	2.3	3.2	2.2
Janesville-Beloit .....	79.4	79.1	80.3	79.7	3.2	2.2	3.5	2.4	4.1	2.7	4.4	3.0
Kenosha .....	77.6	78.7	78.1	79.4	2.7	1.9	2.7	2.0	3.4	2.5	3.4	2.5
La Crosse .....	71.0	71.6	69.6	71.3	2.3	1.5	1.8	1.4	3.3	2.1	2.6	2.0
Madison .....	257.1	262.1	257.3	261.1	4.7	3.2	4.2	3.1	1.8	1.2	1.6	1.2
Milwaukee-Waukesha .....	795.4	810.5	798.1	808.1	28.9	21.0	29.9	21.0	3.6	2.6	3.7	2.6
Racine .....	92.0	95.0	92.8	95.1	4.0	3.1	3.8	2.9	4.3	3.3	4.1	3.0
Sheboygan .....	59.4	59.8	60.0	60.1	1.5	1.0	1.5	1.0	2.6	1.7	2.5	1.7
Wausau .....	71.5	72.3	72.2	72.8	3.0	2.1	2.4	1.8	4.2	2.8	3.4	2.5
<b>Wyoming</b> .....	248.0	253.7	246.4	254.2	14.7	11.5	11.7	10.2	5.9	4.6	4.7	4.0
Casper .....	32.5	33.3	31.8	32.6	2.1	1.8	1.8	1.5	6.6	4.8	5.7	4.5
Cheyenne .....	36.8	39.7	37.5	36.8	1.6	1.2	1.3	1.1	4.1	3.1	3.3	2.8
<b>Puerto Rico</b> .....	1,294.3	1,307.7	1,295.7	1,324.1	175.9	174.4	175.5	171.1	13.6	13.3	13.5	12.9
Aguadilla .....	51.7	51.6	52.4	52.3	9.9	9.4	10.7	9.3	19.2	18.2	20.4	17.8
Arecibo .....	52.8	52.8	52.4	53.3	9.2	8.5	8.4	8.5	17.4	18.1	16.0	15.9
Caguas .....	113.9	115.2	115.5	116.0	13.7	13.7	13.7	13.3	12.0	11.9	11.9	11.5
Mayaguez .....	92.0	92.7	93.2	93.2	14.7	15.2	17.8	14.2	15.9	16.4	19.1	15.2
Ponce .....	109.7	111.8	110.8	113.9	20.1	19.5	19.5	19.1	18.3	17.4	17.6	16.8
San Juan-Bayamon .....	700.3	711.8	698.4	722.9	74.5	75.5	72.3	74.3	10.8	10.6	10.4	10.3

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-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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	166,715	167,063	167,438	167,760	168,098	168,491	168,918	169,499	169,785	170,149	170,540	170,915	171,262
Civilian labor force .....	111,802	112,102	112,137	112,502	112,864	113,185	113,869	114,411	114,596	114,683	115,040	115,314	115,168
Percent of population .....	67.1	67.1	67.0	67.1	67.1	67.2	67.4	67.5	67.5	67.4	67.5	67.5	67.2
Employed .....	106,242	106,648	106,612	107,048	107,478	108,058	108,648	109,298	109,802	109,862	110,465	110,715	110,806
Employment-population ratio <sup>2</sup> .....	63.7	63.8	63.7	63.8	63.9	64.1	64.3	64.5	64.7	64.6	64.8	64.8	64.7
Unemployed .....	5,559	5,454	5,525	5,454	5,386	5,127	5,222	5,114	4,794	4,821	4,575	4,599	4,361
Unemployment rate .....	5.0	4.9	4.9	4.8	4.8	4.5	4.6	4.5	4.2	4.2	4.0	4.0	3.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	57,640	57,687	57,787	58,071	58,257	58,411	58,602	59,014	59,070	59,108	59,281	59,278	59,310
Percent of population .....	77.1	77.0	76.9	77.2	77.3	77.4	77.4	77.6	77.5	77.4	77.4	77.3	77.2
Employed .....	55,109	55,227	55,319	55,633	55,824	56,116	56,337	56,754	56,992	57,004	57,200	57,334	57,460
Employment-population ratio <sup>2</sup> .....	73.7	73.7	73.7	73.9	74.1	74.3	74.4	74.6	74.8	74.6	74.7	74.7	74.8
Unemployed .....	2,531	2,461	2,468	2,438	2,433	2,295	2,265	2,261	2,078	2,104	2,080	1,945	1,850
Unemployment rate .....	4.4	4.3	4.3	4.2	4.2	3.9	3.9	3.8	3.5	3.6	3.5	3.3	3.1
<b>Women, 20 years and over</b>													
Civilian labor force .....	47,582	47,861	47,832	47,873	48,019	48,188	48,566	48,681	48,803	48,885	49,005	49,070	48,953
Percent of population .....	59.1	59.4	59.2	59.2	59.3	59.4	59.8	59.9	59.9	59.9	60.0	59.9	59.7
Employed .....	45,497	45,814	45,778	45,831	46,003	46,262	46,551	46,786	46,998	47,120	47,341	47,268	47,305
Employment-population ratio <sup>2</sup> .....	56.5	56.8	56.7	56.7	56.8	57.0	57.3	57.5	57.7	57.8	57.9	57.7	57.7
Unemployed .....	2,084	2,047	2,054	2,042	2,016	1,926	2,015	1,895	1,804	1,765	1,664	1,802	1,649
Unemployment rate .....	4.4	4.3	4.3	4.3	4.2	4.0	4.1	3.9	3.7	3.6	3.4	3.7	3.4
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,580	6,554	6,518	6,558	6,588	6,585	6,701	6,716	6,723	6,690	6,754	6,966	6,905
Percent of population .....	57.5	57.0	56.3	56.3	56.0	55.4	55.9	55.4	55.3	54.8	55.2	56.6	55.7
Employed .....	5,636	5,607	5,515	5,584	5,650	5,679	5,760	5,758	5,812	5,739	5,924	6,113	6,042
Employment-population ratio <sup>2</sup> .....	49.3	48.8	47.6	47.9	48.0	47.8	48.1	47.5	47.8	47.0	48.4	49.7	48.7
Unemployed .....	944	947	1,003	974	937	906	942	958	912	951	830	852	863
Unemployment rate .....	14.4	14.4	15.4	14.8	14.2	13.8	14.1	14.3	13.6	14.2	12.3	12.2	12.5
Men .....	15.4	15.3	16.4	16.0	15.3	15.3	15.3	15.0	14.5	14.9	12.8	14.6	13.8
Women .....	13.3	13.5	14.3	13.6	13.1	12.1	12.7	13.5	12.6	13.5	11.7	9.7	11.0
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	23,194	23,285	23,388	23,454	23,549	23,650	23,761	23,871	23,950	24,043	24,149	24,227	24,319
Civilian labor force .....	14,823	14,725	14,948	14,956	15,063	15,204	15,309	15,413	15,413	15,648	15,634	15,881	15,892
Percent of population .....	63.9	63.2	63.9	63.8	64.0	64.3	64.4	64.6	64.4	65.1	64.7	65.6	65.3
Employed .....	13,278	13,094	13,457	13,397	13,511	13,581	13,675	13,758	13,846	14,152	14,115	14,388	14,515
Employment-population ratio <sup>2</sup> .....	57.2	56.2	57.5	57.1	57.4	57.4	57.6	57.6	57.8	58.9	58.4	59.4	59.7
Unemployed .....	1,545	1,631	1,491	1,559	1,552	1,622	1,634	1,655	1,567	1,495	1,519	1,493	1,378
Unemployment rate .....	10.4	11.1	10.0	10.4	10.3	10.7	10.7	10.7	10.2	9.6	9.7	9.4	8.7
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,773	6,676	6,676	6,767	6,771	6,829	6,853	6,819	6,869	6,986	6,956	7,010	7,065
Percent of population .....	73.1	71.8	71.7	72.3	72.0	72.5	72.3	71.7	71.9	72.8	72.2	72.5	72.8
Employed .....	6,176	6,046	6,091	6,114	6,133	6,195	6,224	6,211	6,278	6,425	6,381	6,465	6,569
Employment-population ratio <sup>2</sup> .....	66.7	65.0	65.4	65.3	65.2	65.8	65.7	65.3	65.8	66.9	66.2	66.9	67.7
Unemployed .....	597	630	585	653	638	634	630	608	591	561	575	545	495
Unemployment rate .....	8.8	9.4	8.8	9.6	9.4	9.3	9.2	8.9	8.6	8.0	8.3	7.8	7.0
<b>Women, 20 years and over</b>													
Civilian labor force .....	7,150	7,101	7,320	7,293	7,352	7,445	7,529	7,617	7,643	7,751	7,734	7,895	7,825
Percent of population .....	61.3	60.7	62.3	61.9	62.2	62.8	63.3	63.7	63.8	64.4	64.0	65.0	64.3
Employed .....	6,532	6,464	6,728	6,681	6,735	6,784	6,845	6,895	6,961	7,099	7,096	7,242	7,189
Employment-population ratio <sup>2</sup> .....	56.0	55.2	57.3	56.7	57.0	57.3	57.5	57.7	58.1	59.0	58.7	59.7	59.0
Unemployed .....	618	637	592	612	617	661	684	722	682	651	638	653	635
Unemployment rate .....	8.6	9.0	8.1	8.4	8.4	8.9	9.1	9.5	8.9	8.4	8.3	8.3	8.1

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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	900	948	952	895	940	929	927	977	901	911	944	976	1,003
Percent of population .....	39.6	41.5	40.9	38.7	40.2	39.0	38.8	40.6	37.3	37.8	39.1	40.3	41.1
Employed .....	570	584	638	602	643	602	606	652	606	628	638	681	756
Employment-population ratio <sup>2</sup> .....	25.1	25.5	27.4	26.0	27.5	25.3	25.4	27.1	25.1	26.0	26.4	28.1	31.0
Unemployed .....	330	364	315	294	297	327	320	325	294	283	306	295	247
Unemployment rate .....	36.7	38.4	33.0	32.8	31.6	35.2	34.6	33.3	32.7	31.0	32.4	30.2	24.6
Men .....	38.7	39.7	35.5	34.6	33.8	39.8	39.2	39.4	37.1	35.4	33.7	31.5	24.7
Women .....	34.7	37.2	30.6	31.0	29.4	30.4	30.1	27.5	28.4	27.3	31.3	29.1	24.6
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	18,555	18,702	18,845	18,977	19,132	19,292	19,452	20,067	20,236	20,408	20,574	20,797	20,975
Civilian labor force .....	12,248	12,377	12,390	12,532	12,603	12,825	13,118	13,656	13,725	13,869	13,916	14,133	14,416
Percent of population .....	66.0	66.2	65.7	66.0	65.9	66.5	67.4	68.1	67.8	68.0	67.6	68.0	68.7
Employed .....	11,116	11,233	11,219	11,345	11,436	11,705	12,065	12,539	12,659	12,815	12,883	13,158	13,414
Employment-population ratio <sup>2</sup> .....	59.9	60.1	59.5	59.8	59.8	60.7	62.0	62.5	62.6	62.8	62.6	63.3	64.0
Unemployed .....	1,132	1,144	1,171	1,186	1,166	1,120	1,053	1,118	1,066	1,054	1,034	976	1,002
Unemployment rate .....	9.2	9.2	9.4	9.5	9.3	8.7	8.0	8.2	7.8	7.6	7.4	6.9	6.9

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

<sup>2</sup> 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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>Less than a high school diploma</b>													
Civilian noninstitutional population <sup>1</sup> .....	30,533	29,696	29,952	30,482	30,538	29,787	29,859	30,269	30,069	29,318	29,372	29,487	29,878
Civilian labor force .....	12,011	11,854	12,157	12,334	12,402	12,386	12,460	12,608	12,580	12,548	12,511	12,543	12,747
Percent of population .....	39.3	39.9	40.6	40.5	40.6	41.6	41.7	41.7	41.8	42.8	42.6	42.5	42.7
Employed .....	10,969	10,761	11,032	11,230	11,276	11,333	11,434	11,513	11,548	11,567	11,561	11,649	11,858
Employment-population ratio .....	35.9	36.2	36.8	36.8	36.9	38.0	38.3	38.0	38.4	39.5	39.4	39.5	39.7
Unemployed .....	1,043	1,093	1,125	1,104	1,126	1,053	1,026	1,096	1,032	981	950	894	889
Unemployment rate .....	8.7	9.2	9.3	8.9	9.1	8.5	8.2	8.7	8.2	7.8	7.6	7.1	7.0
<b>High school graduates, no college<sup>2</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	56,284	56,045	55,973	56,167	56,344	56,322	56,834	57,247	57,424	57,557	57,467	57,636	57,545
Civilian labor force .....	36,826	36,647	36,701	36,811	36,876	37,027	37,394	37,795	37,727	37,805	37,742	37,842	37,311
Percent of population .....	65.4	65.4	65.6	65.5	65.4	65.7	65.8	66.0	65.7	65.7	65.7	65.7	64.8
Employed .....	35,016	34,933	34,983	35,067	35,149	35,334	35,660	36,116	36,123	36,203	36,220	36,312	35,867
Employment-population ratio .....	62.2	62.3	62.5	62.4	62.4	62.7	62.7	63.1	62.9	62.9	63.0	63.0	62.3
Unemployed .....	1,811	1,715	1,718	1,744	1,726	1,693	1,734	1,680	1,604	1,601	1,523	1,530	1,444
Unemployment rate .....	4.9	4.7	4.7	4.7	4.7	4.6	4.6	4.4	4.3	4.2	4.0	4.0	3.9
<b>Less than a bachelor's degree<sup>3</sup></b>													
Civilian noninstitutional population <sup>1</sup> .....	40,908	42,007	41,884	41,215	41,350	42,312	41,876	41,506	41,641	42,266	42,372	42,186	42,069
Civilian labor force .....	30,704	31,110	30,957	30,890	31,095	31,391	31,228	31,258	31,268	31,358	31,459	31,486	31,384
Percent of population .....	75.1	74.1	73.9	74.9	75.2	74.2	74.6	75.3	75.1	74.2	74.2	74.6	74.6
Employed .....	29,438	29,885	29,749	29,708	29,922	30,231	30,087	30,152	30,270	30,353	30,489	30,479	30,480
Employment-population ratio .....	72.0	71.1	71.0	72.1	72.4	71.4	71.8	72.6	72.7	71.8	72.0	72.2	72.5
Unemployed .....	1,266	1,225	1,209	1,182	1,173	1,160	1,142	1,106	998	1,005	970	1,007	904
Unemployment rate .....	4.1	3.9	3.9	3.8	3.8	3.7	3.7	3.5	3.2	3.2	3.1	3.2	2.9
<b>College graduates</b>													
Civilian noninstitutional population <sup>1</sup> .....	38,195	38,635	39,195	39,644	39,778	40,074	40,408	40,667	40,987	41,391	41,752	42,099	42,250
Civilian labor force .....	31,042	31,285	31,598	31,838	32,020	32,294	32,575	32,660	33,047	33,342	33,564	33,711	34,061
Percent of population .....	81.3	81.0	80.6	80.3	80.5	80.6	80.6	80.3	80.6	80.6	80.4	80.1	80.6
Employed .....	30,238	30,523	30,855	31,096	31,294	31,602	31,841	31,975	32,366	32,652	32,956	33,071	33,485
Employment-population ratio .....	79.2	79.0	78.7	78.4	78.7	78.9	78.8	78.6	79.0	78.9	78.9	78.6	79.3
Unemployed .....	804	762	743	742	726	693	734	685	681	690	609	640	575
Unemployment rate .....	2.6	2.4	2.4	2.3	2.3	2.1	2.3	2.1	2.1	2.1	1.8	1.9	1.7

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

NOTE: Beginning in January 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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>EMPLOYED</b>													
Full-time workers .....	101,457	101,624	102,227	102,430	103,128	103,853	104,730	105,286	106,100	106,715	107,256	107,754	107,956
Men, 16 years and over .....	59,818	59,868	60,051	60,134	60,570	60,984	61,362	61,720	62,153	62,398	62,761	62,820	63,096
Men, 20 years and over .....	58,600	58,636	58,811	58,912	59,360	59,755	60,138	60,470	60,869	61,112	61,440	61,540	61,744
Women, 16 years and over .....	41,644	41,769	42,161	42,303	42,562	42,862	43,359	43,510	43,945	44,372	44,470	44,822	44,846
Women, 20 years and over .....	40,811	40,970	41,356	41,504	41,724	42,063	42,503	42,635	43,103	43,450	43,572	43,855	43,903
Both sexes, 16 to 19 years .....	2,045	2,018	2,060	2,014	2,044	2,035	2,088	2,181	2,128	2,153	2,244	2,359	2,309
Part-time workers .....	23,143	23,284	23,056	23,137	23,127	23,305	23,133	23,383	23,212	23,027	23,276	23,350	23,306
Men, 20 years and over .....	7,427	7,473	7,361	7,504	7,438	7,466	7,387	7,482	7,416	7,386	7,431	7,522	7,510
Men, 16 years and over .....	5,355	5,374	5,331	5,422	5,306	5,387	5,317	5,358	5,321	5,319	5,246	5,299	5,312
Women, 16 years and over .....	15,726	15,801	15,698	15,637	15,691	15,826	15,755	15,897	15,801	15,634	15,861	15,813	15,798
Women, 20 years and over .....	13,406	13,487	13,393	13,328	13,370	13,413	13,323	13,521	13,362	13,316	13,479	13,272	13,266
Both sexes, 16 to 19 years .....	4,382	4,422	4,332	4,387	4,452	4,506	4,494	4,504	4,529	4,393	4,551	4,780	4,727
<b>UNEMPLOYED</b>													
Looking for full-time work .....	5,957	5,996	5,941	5,927	5,835	5,643	5,782	5,702	5,385	5,314	5,135	5,090	4,793
Men, 16 years and over .....	3,424	3,446	3,382	3,336	3,342	3,204	3,213	3,135	3,002	2,968	2,940	2,660	2,631
Men, 20 years and over .....	3,014	3,026	2,997	3,003	2,956	2,813	2,795	2,778	2,602	2,575	2,585	2,429	2,276
Women, 16 years and over .....	2,559	2,560	2,561	2,564	2,527	2,448	2,569	2,521	2,426	2,358	2,226	2,329	2,212
Women, 20 years and over .....	2,297	2,270	2,271	2,280	2,270	2,195	2,291	2,239	2,142	2,096	1,933	2,096	1,943
Both sexes, 16 to 19 years .....	646	700	674	644	609	635	696	685	640	644	617	565	574
Looking for part-time work .....	1,523	1,512	1,474	1,468	1,434	1,435	1,406	1,430	1,331	1,326	1,285	1,342	1,209
Men, 16 years and over .....	621	600	643	629	627	599	564	586	567	565	541	572	521
Men, 20 years and over .....	264	243	256	256	262	246	234	256	225	232	236	220	196
Women, 16 years and over .....	907	910	838	830	813	830	844	839	776	756	746	758	708
Women, 20 years and over .....	563	589	508	525	498	544	532	515	485	454	467	495	444
Both sexes, 16 to 19 years .....	697	680	709	687	674	645	640	659	620	640	582	627	569
<b>UNEMPLOYMENT RATES<sup>1</sup></b>													
Full-time workers .....	5.5	5.6	5.5	5.5	5.4	5.2	5.2	5.1	4.8	4.7	4.6	4.5	4.3
Men, 16 years and over .....	5.4	5.4	5.3	5.3	5.2	5.0	5.0	4.8	4.6	4.5	4.5	4.1	4.0
Men, 20 years and over .....	4.9	4.9	4.8	4.8	4.7	4.5	4.4	4.4	4.1	4.0	4.0	3.8	3.6
Women, 16 years and over .....	5.8	5.8	5.7	5.7	5.6	5.4	5.6	5.5	5.2	5.0	4.8	4.9	4.7
Women, 20 years and over .....	5.3	5.2	5.2	5.2	5.2	5.0	5.1	5.0	4.7	4.6	4.2	4.6	4.2
Both sexes, 16 to 19 years .....	24.0	25.7	24.6	24.2	23.0	23.8	25.0	23.9	23.1	23.0	21.6	19.3	19.9
Part-time workers .....	6.2	6.1	6.0	6.0	5.8	5.8	5.7	5.8	5.4	5.4	5.2	5.4	4.9
Men, 16 years and over .....	7.7	7.4	8.0	7.7	7.8	7.4	7.1	7.3	7.1	7.1	6.8	7.1	6.5
Men, 20 years and over .....	4.7	4.3	4.6	4.5	4.7	4.4	4.2	4.6	4.1	4.2	4.3	4.0	3.6
Women, 16 years and over .....	5.5	5.4	5.1	5.0	4.9	5.0	5.1	5.0	4.7	4.6	4.5	4.6	4.3
Women, 20 years and over .....	4.0	4.2	3.7	3.8	3.6	3.9	3.8	3.7	3.5	3.3	3.3	3.6	3.2
Both sexes, 16 to 19 years .....	13.7	13.3	14.1	13.5	13.2	12.5	12.5	12.8	12.0	12.7	11.3	11.6	10.7

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

NOTE: Beginning in January 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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>MARITAL STATUS</b>													
Total .....	124,666	124,843	125,207	125,656	126,323	127,067	127,787	128,697	129,387	129,723	130,421	131,080	131,349
Married men, spouse present .....	42,002	42,129	42,113	42,197	42,409	42,501	42,556	42,602	42,426	42,637	42,897	42,890	42,625
Married women, spouse present .....	32,080	32,074	32,142	32,116	32,341	32,627	32,535	32,668	32,574	32,840	32,931	32,829	32,861
Women who maintain families .....	7,145	7,171	7,241	7,329	7,321	7,325	7,481	7,606	7,810	7,881	7,804	7,815	7,861
<b>OCCUPATION</b>													
Managerial and professional specialty ..	35,155	35,662	35,710	35,833	36,369	36,657	37,126	37,499	37,492	37,741	38,012	38,239	38,672
Technical, sales, and administrative support .....	37,400	37,531	37,294	37,387	37,615	37,803	37,915	38,103	38,212	38,370	38,546	38,522	38,518
Service occupations .....	16,981	16,793	16,886	16,870	17,215	17,315	17,288	17,255	17,398	17,670	17,813	17,954	17,700
Precision production, craft, and repair ..	13,499	13,445	13,515	13,624	13,462	13,629	13,660	14,028	14,259	14,044	14,180	14,465	14,678
Operators, fabricators, and laborers .....	18,064	17,877	18,150	18,189	18,189	18,135	18,276	18,264	18,505	18,410	18,415	18,478	18,296
Farming, forestry, and fishing .....	3,615	3,571	3,641	3,709	3,519	3,545	3,519	3,490	3,562	3,485	3,474	3,353	3,492
<b>CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,780	1,796	1,824	1,899	1,877	1,843	1,871	1,923	1,927	1,880	1,838	1,914	1,900
Self-employed workers .....	1,625	1,519	1,522	1,554	1,498	1,526	1,495	1,417	1,436	1,483	1,488	1,305	1,396
Unpaid family workers .....	55	44	39	43	45	71	63	46	54	49	53	39	42
Nonagricultural industries:													
Wage and salary workers .....	112,290	112,420	112,804	113,093	113,790	114,609	115,177	115,931	116,677	117,274	118,040	118,873	118,814
Private industries .....	93,832	94,137	94,574	94,953	95,494	96,386	96,962	97,778	98,669	99,069	99,876	100,583	100,569
Private households .....	951	922	956	916	875	958	960	920	920	908	911	1,014	997
Other industries .....	92,881	93,216	93,619	94,037	94,619	95,428	96,002	96,858	97,749	98,161	98,965	99,569	99,572
Government .....	18,458	18,283	18,229	18,139	18,296	18,223	18,215	18,153	18,008	18,205	18,164	18,290	18,245
Self-employed workers .....	8,806	8,999	8,925	8,940	8,965	8,925	9,063	9,243	9,104	8,944	8,940	8,836	9,020
Unpaid family workers .....	113	108	103	104	117	126	142	138	134	113	96	117	107
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,478	4,492	4,429	4,333	4,377	4,345	4,211	4,244	4,156	3,978	3,886	3,956	3,782
Slack work or business conditions .....	2,432	2,529	2,543	2,423	2,372	2,502	2,256	2,365	2,348	2,196	2,221	2,198	2,136
Could only find part-time work .....	1,734	1,668	1,606	1,590	1,645	1,562	1,631	1,544	1,479	1,477	1,372	1,433	1,297
Part time for noneconomic reasons .....	17,777	17,934	17,501	17,573	17,682	18,029	17,875	18,138	18,193	18,017	18,194	18,457	18,470
Nonagricultural industries:													
Part time for economic reasons .....	4,273	4,303	4,265	4,108	4,192	4,156	4,035	4,044	3,959	3,810	3,692	3,778	3,638
Slack work or business conditions .....	2,296	2,400	2,438	2,280	2,261	2,373	2,139	2,247	2,216	2,085	2,105	2,081	2,058
Could only find part-time work .....	1,696	1,634	1,574	1,562	1,610	1,532	1,605	1,511	1,440	1,445	1,338	1,407	1,264
Part time for noneconomic reasons .....	17,075	17,338	16,897	16,929	17,062	17,411	17,264	17,532	17,606	17,451	17,605	17,871	17,852

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

as holidays, illness, and bad weather.

NOTE: Beginning in January 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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	124,666	124,843	125,207	125,656	126,323	127,067	127,787	128,697	129,387	129,723	130,421	131,080	131,349
16 to 24 years .....	18,980	18,764	18,572	18,547	18,668	18,590	18,756	18,969	19,060	18,962	19,188	19,575	19,625
16 to 19 years .....	6,423	6,452	6,387	6,396	6,497	6,533	6,579	6,641	6,659	6,586	6,766	7,039	7,035
16 to 17 years .....	2,599	2,574	2,543	2,590	2,651	2,654	2,687	2,655	2,648	2,610	2,679	2,829	2,750
18 to 19 years .....	3,848	3,883	3,836	3,796	3,863	3,874	3,887	3,978	4,019	3,965	4,090	4,211	4,294
20 to 24 years .....	12,557	12,313	12,185	12,152	12,171	12,058	12,177	12,328	12,401	12,375	12,422	12,536	12,590
25 years and over .....	105,694	106,079	106,623	107,090	107,678	108,487	109,018	109,714	110,355	110,766	111,220	111,455	111,748
25 to 54 years .....	90,702	90,942	91,373	91,833	92,316	92,989	93,420	93,881	94,330	94,800	94,836	95,093	95,163
55 years and over .....	14,943	15,172	15,252	15,258	15,300	15,557	15,600	15,850	15,951	16,034	16,387	16,385	16,493
Men, 16 years and over .....	67,314	67,268	67,346	67,707	68,078	68,370	68,683	69,291	69,639	69,705	70,111	70,425	70,695
16 to 24 years .....	10,026	9,942	9,760	9,753	9,762	9,711	9,738	9,927	9,994	9,901	9,990	10,159	10,208
16 to 19 years .....	3,287	3,336	3,265	3,282	3,348	3,319	3,292	3,375	3,384	3,357	3,498	3,508	3,548
16 to 17 years .....	1,334	1,329	1,288	1,303	1,331	1,302	1,336	1,344	1,342	1,343	1,392	1,440	1,396
18 to 19 years .....	1,971	2,002	1,981	1,973	2,032	2,007	1,961	2,024	2,048	1,994	2,118	2,071	2,157
20 to 24 years .....	6,739	6,606	6,495	6,471	6,414	6,392	6,446	6,552	6,610	6,545	6,491	6,651	6,660
25 years and over .....	57,272	57,345	57,585	57,934	58,308	58,690	58,944	59,347	59,636	59,836	60,118	60,240	60,470
25 to 54 years .....	48,996	48,989	49,090	49,398	49,677	50,007	50,230	50,502	50,701	50,878	51,009	51,194	51,278
55 years and over .....	8,261	8,363	8,510	8,522	8,612	8,705	8,725	8,836	8,912	8,983	9,121	9,042	9,154
Women, 16 years and over .....	57,352	57,575	57,862	57,949	58,245	58,697	59,104	59,406	59,748	60,018	60,310	60,655	60,653
16 to 24 years .....	8,954	8,822	8,812	8,794	8,906	8,879	9,018	9,042	9,066	9,060	9,198	9,416	9,417
16 to 19 years .....	3,135	3,115	3,122	3,113	3,149	3,213	3,287	3,266	3,275	3,230	3,268	3,531	3,487
16 to 17 years .....	1,265	1,245	1,255	1,286	1,321	1,352	1,351	1,310	1,307	1,266	1,287	1,388	1,354
18 to 19 years .....	1,876	1,881	1,855	1,823	1,831	1,867	1,926	1,954	1,972	1,970	1,972	2,140	2,137
20 to 24 years .....	5,819	5,707	5,691	5,681	5,757	5,666	5,731	5,776	5,791	5,831	5,930	5,885	5,930
25 years and over .....	48,422	48,734	49,037	49,156	49,370	49,797	50,075	50,367	50,719	50,930	51,102	51,215	51,278
25 to 54 years .....	41,706	41,953	42,283	42,435	42,640	42,982	43,190	43,380	43,629	43,921	43,827	43,899	43,885
55 years and over .....	6,682	6,809	6,742	6,737	6,688	6,852	6,875	7,014	7,038	7,051	7,266	7,343	7,339

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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	7,475	7,518	7,391	7,407	7,267	7,089	7,157	7,147	6,716	6,656	6,392	6,444	6,002
16 to 24 years .....	2,555	2,705	2,607	2,633	2,524	2,487	2,531	2,564	2,407	2,384	2,345	2,361	2,189
16 to 19 years .....	1,341	1,379	1,380	1,336	1,282	1,279	1,330	1,352	1,260	1,282	1,192	1,202	1,141
16 to 17 years .....	649	675	655	634	625	616	596	614	582	587	573	604	539
18 to 19 years .....	698	708	727	691	661	672	734	727	680	707	618	586	604
20 to 24 years .....	1,214	1,326	1,227	1,297	1,242	1,208	1,201	1,212	1,147	1,101	1,153	1,159	1,048
25 years and over .....	4,919	4,813	4,803	4,759	4,739	4,605	4,647	4,568	4,302	4,282	4,065	4,074	3,803
25 to 54 years .....	4,328	4,218	4,226	4,198	4,182	4,053	4,131	4,066	3,807	3,773	3,585	3,624	3,382
55 years and over .....	583	583	575	577	545	543	518	513	489	501	475	465	420
Men, 16 years and over .....	4,013	4,045	3,999	4,010	3,935	3,800	3,746	3,782	3,527	3,520	3,441	3,351	3,105
16 to 24 years .....	1,393	1,484	1,439	1,453	1,425	1,374	1,371	1,394	1,293	1,325	1,308	1,302	1,200
16 to 19 years .....	735	765	764	746	716	736	736	744	698	700	635	699	630
16 to 17 years .....	352	365	357	354	348	359	327	342	324	306	311	343	305
18 to 19 years .....	393	396	411	383	375	375	412	393	379	394	326	348	331
20 to 24 years .....	658	719	675	707	710	638	636	650	596	625	673	603	570
25 years and over .....	2,628	2,565	2,563	2,545	2,516	2,429	2,377	2,378	2,240	2,201	2,131	2,042	1,907
25 to 54 years .....	2,281	2,224	2,249	2,253	2,216	2,110	2,087	2,090	1,960	1,917	1,837	1,777	1,668
55 years and over .....	340	332	309	307	291	313	286	301	270	278	293	281	233
Women, 16 years and over .....	3,462	3,472	3,391	3,397	3,332	3,289	3,411	3,366	3,189	3,136	2,951	3,093	2,897
16 to 24 years .....	1,162	1,221	1,168	1,180	1,099	1,113	1,160	1,170	1,114	1,059	1,037	1,059	989
16 to 19 years .....	606	615	616	590	566	544	595	608	562	582	557	502	511
16 to 17 years .....	297	309	298	280	277	256	269	271	258	281	262	261	234
18 to 19 years .....	305	313	316	308	286	297	323	334	301	312	293	237	274
20 to 24 years .....	556	606	552	590	533	569	565	562	551	477	480	556	478
25 years and over .....	2,292	2,248	2,240	2,214	2,223	2,175	2,270	2,190	2,062	2,081	1,933	2,031	1,896
25 to 54 years .....	2,047	1,994	1,978	1,944	1,966	1,943	2,044	1,976	1,847	1,856	1,749	1,846	1,714
55 years and over .....	243	252	267	270	254	230	232	212	219	223	181	184	187

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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	5.7	5.7	5.6	5.6	5.4	5.3	5.3	5.3	4.9	4.9	4.7	4.7	4.4
16 to 24 years .....	11.9	12.6	12.3	12.4	11.9	11.8	11.9	11.9	11.2	11.2	10.9	10.8	10.0
16 to 19 years .....	17.3	17.6	17.8	17.3	16.5	16.4	16.8	16.9	15.9	16.3	15.0	14.6	14.0
16 to 17 years .....	20.0	20.8	20.5	19.7	19.1	18.8	18.1	18.8	18.0	18.4	17.6	17.6	16.4
18 to 19 years .....	15.4	15.4	15.9	15.4	14.6	14.8	15.9	15.4	14.5	15.1	13.1	12.2	12.3
20 to 24 years .....	8.8	9.7	9.1	9.6	9.3	9.1	9.0	8.9	8.5	8.2	8.5	8.5	7.7
25 years and over .....	4.4	4.3	4.3	4.3	4.2	4.1	4.1	4.0	3.8	3.7	3.5	3.5	3.3
25 to 54 years .....	4.6	4.4	4.4	4.4	4.3	4.2	4.2	4.2	3.9	3.8	3.6	3.7	3.4
55 years and over .....	3.8	3.7	3.6	3.6	3.4	3.4	3.2	3.1	3.0	3.0	2.8	2.8	2.5
Men, 16 years and over .....	5.6	5.7	5.6	5.6	5.5	5.3	5.2	5.2	4.8	4.8	4.7	4.5	4.2
16 to 24 years .....	12.2	13.0	12.8	13.0	12.7	12.4	12.3	12.3	11.5	11.8	11.6	11.4	10.5
16 to 19 years .....	18.3	18.6	19.0	18.5	17.6	18.1	18.3	18.1	17.1	17.3	15.4	16.6	15.1
16 to 17 years .....	20.9	21.6	21.7	21.3	20.7	21.6	19.7	20.3	19.5	18.6	18.3	19.3	17.9
18 to 19 years .....	16.6	16.5	17.2	16.3	15.6	15.7	17.4	16.3	15.6	16.5	13.3	14.4	13.3
20 to 24 years .....	8.9	9.8	9.4	9.8	10.0	9.1	9.0	9.0	8.3	8.7	9.4	8.3	7.9
25 years and over .....	4.4	4.3	4.3	4.2	4.1	4.0	3.9	3.9	3.6	3.5	3.4	3.3	3.1
25 to 54 years .....	4.4	4.3	4.4	4.4	4.3	4.0	4.0	4.0	3.7	3.6	3.5	3.4	3.1
55 years and over .....	3.9	3.8	3.5	3.5	3.3	3.5	3.2	3.3	2.9	3.0	3.1	3.0	2.5
Women, 16 years and over .....	5.7	5.7	5.5	5.5	5.4	5.3	5.5	5.4	5.1	5.0	4.7	4.9	4.6
16 to 24 years .....	11.5	12.2	11.7	11.8	11.0	11.1	11.4	11.5	10.9	10.5	10.1	10.1	9.5
16 to 19 years .....	16.2	16.5	16.5	15.9	15.2	14.5	15.3	15.7	14.7	15.3	14.6	12.5	12.8
16 to 17 years .....	19.0	19.9	19.2	17.9	17.3	15.9	16.6	17.2	16.5	18.2	16.9	15.8	14.7
18 to 19 years .....	14.0	14.3	14.6	14.4	13.5	13.7	14.3	14.6	13.2	13.7	12.9	10.0	11.3
20 to 24 years .....	8.7	9.6	8.8	9.4	8.5	9.1	9.0	8.9	8.7	7.6	7.5	8.6	7.5
25 years and over .....	4.5	4.4	4.4	4.3	4.3	4.2	4.3	4.2	3.9	3.9	3.6	3.8	3.6
25 to 54 years .....	4.7	4.5	4.5	4.4	4.4	4.3	4.5	4.4	4.1	4.1	3.8	4.0	3.8
55 years and over .....	3.5	3.6	3.8	3.9	3.7	3.2	3.3	2.9	3.0	3.1	2.4	2.4	2.5

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	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTIC</b>													
Total .....	5.7	5.7	5.6	5.6	5.4	5.3	5.3	5.3	4.9	4.9	4.7	4.7	4.4
Men, 20 years and over .....	4.9	4.9	4.8	4.8	4.7	4.5	4.4	4.4	4.1	4.1	4.0	3.8	3.6
Women, 20 years and over .....	5.0	5.0	4.8	4.9	4.8	4.7	4.8	4.7	4.4	4.3	4.0	4.3	4.0
Both sexes, 16 to 19 years .....	17.3	17.6	17.8	17.3	16.5	16.4	16.8	16.9	15.9	16.3	15.0	14.6	14.0
White .....	5.0	4.9	4.9	4.8	4.8	4.5	4.6	4.5	4.2	4.2	4.0	4.0	3.8
Black and other .....	9.5	10.1	9.3	9.4	9.2	9.3	9.3	9.4	9.0	8.4	8.4	8.2	7.5
Black .....	10.4	11.1	10.0	10.4	10.3	10.7	10.7	10.7	10.2	9.6	9.7	9.4	8.7
Hispanic origin .....	9.2	9.2	9.4	9.5	9.3	8.7	8.0	8.2	7.8	7.6	7.4	6.9	6.9
Married men, spouse present .....	3.4	3.4	3.2	3.1	3.0	3.0	3.0	2.8	2.7	2.6	2.5	2.5	2.3
Married women, spouse present .....	3.9	4.0	3.8	3.7	3.7	3.4	3.6	3.3	3.2	3.1	2.8	3.1	2.8
Women who maintain families .....	8.7	7.7	7.5	7.6	8.0	8.6	8.6	8.8	7.9	7.8	7.8	7.6	7.4
<b>OCCUPATION<sup>1</sup></b>													
Managerial and professional specialty .....	2.4	2.5	2.5	2.4	2.4	2.3	2.3	2.1	2.0	2.0	1.8	1.9	1.7
Technical, sales, and administrative support .....	4.6	4.4	4.3	4.5	4.4	4.5	4.5	4.3	4.1	4.1	3.9	4.1	3.8
Precision production, craft, and repair .....	6.1	6.3	6.0	5.7	5.5	5.4	5.5	4.9	4.8	4.8	4.8	4.4	4.1
Operators, fabricators, and laborers .....	8.3	8.4	8.3	8.2	8.1	7.7	7.8	8.0	7.3	7.6	7.1	6.4	6.5
Farming, forestry, and fishing .....	8.3	7.7	7.9	7.8	8.2	6.9	7.3	7.3	7.1	6.8	7.0	6.7	6.2
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers ...	5.8	5.9	5.8	5.7	5.6	5.4	5.4	5.3	5.0	5.0	4.8	4.7	4.5
Goods-producing industries .....	6.6	6.6	6.5	6.3	6.2	5.7	6.0	5.7	5.3	5.3	4.9	4.9	4.6
Mining .....	4.8	4.2	6.9	5.6	4.3	4.5	5.7	4.4	2.8	4.2	3.7	3.5	2.5
Construction .....	11.8	12.0	11.5	10.5	10.2	9.4	9.7	9.4	8.7	8.8	8.5	8.1	7.4
Manufacturing .....	5.0	5.0	5.0	5.0	4.9	4.6	4.8	4.5	4.3	4.2	3.7	3.8	3.7
Durable goods .....	4.5	4.5	4.4	4.8	4.7	4.1	4.5	4.0	3.6	3.4	3.1	3.3	3.1
Nondurable goods .....	5.8	5.8	5.8	5.3	5.3	5.2	5.2	5.2	5.3	5.2	4.7	4.6	4.5
Service-producing industries .....	5.5	5.6	5.5	5.5	5.4	5.3	5.2	5.2	4.9	4.8	4.7	4.6	4.5
Transportation and public utilities .....	4.4	4.4	4.4	3.9	4.3	4.1	4.1	4.0	3.2	3.6	3.2	3.4	3.2
Wholesale and retail trade .....	6.5	6.8	6.4	6.5	6.5	6.3	6.3	6.4	6.2	6.2	6.0	5.7	5.3
Finance, insurance, and real estate .....	3.5	3.2	3.1	2.6	2.5	2.7	3.0	3.2	3.0	3.0	2.7	2.6	2.1
Services .....	5.5	5.5	5.5	5.6	5.5	5.3	5.1	4.9	4.7	4.5	4.4	4.6	4.6
Government workers .....	3.0	2.8	2.9	2.8	3.0	2.9	3.0	2.9	2.6	2.6	2.3	2.5	2.1
Agricultural wage and salary workers .....	11.7	10.5	11.6	10.7	10.4	9.4	10.0	9.0	9.2	8.7	9.3	9.6	8.0

<sup>1</sup> Seasonally adjusted data for service occupations are not available because the seasonal component, which is small relative to the trend-cycle and/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.

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

(Numbers in thousands)

Reason	1995			1996				1997				1998	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>NUMBER OF UNEMPLOYED</b>													
Job losers and persons who completed temporary jobs ..	3,480	3,494	3,533	3,515	3,472	3,230	3,231	3,162	3,031	2,990	2,937	2,861	2,741
On temporary layoff .....	1,034	1,050	1,033	1,053	1,064	983	965	965	932	893	913	887	774
Not on temporary layoff .....	2,446	2,445	2,500	2,462	2,408	2,248	2,266	2,197	2,099	2,098	2,024	1,974	1,966
Job leavers .....	857	850	822	789	709	766	827	821	804	853	693	779	713
Reentrants .....	2,585	2,559	2,487	2,484	2,549	2,495	2,525	2,535	2,364	2,233	2,215	2,236	2,075
New entrants .....	581	588	578	591	557	577	598	612	551	559	556	537	512
<b>PERCENT DISTRIBUTION</b>													
Job losers and persons who completed temporary jobs ..	46.4	46.6	47.6	47.6	47.6	45.7	45.0	44.4	44.9	45.1	45.9	44.6	45.4
On temporary layoff .....	13.8	14.0	13.9	14.3	14.6	13.9	13.4	13.5	13.8	13.5	14.3	13.8	12.8
Not on temporary layoff .....	32.6	32.6	33.7	33.4	33.0	31.8	31.6	30.8	31.1	31.6	31.6	30.8	32.6
Job leavers .....	11.4	11.3	11.1	10.7	9.7	10.8	11.5	11.5	11.9	12.9	10.8	12.2	11.8
Reentrants .....	34.5	34.2	33.5	33.7	35.0	35.3	35.2	35.6	35.0	33.7	34.6	34.9	34.3
New entrants .....	7.7	7.8	7.8	8.0	7.6	8.2	8.3	8.6	8.2	8.4	8.7	8.4	8.5
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers and persons who completed temporary jobs ..	2.6	2.6	2.7	2.6	2.6	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.0
Job leavers .....	.6	.6	.6	.6	.5	.6	.6	.6	.6	.6	.5	.6	.5
Reentrants .....	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.6	1.6	1.6	1.5
New entrants .....	.4	.4	.4	.4	.4	.4	.4	.5	.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.

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

(Numbers in thousands)

Duration	1995			1996				1997				1998	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>NUMBER OF UNEMPLOYED</b>													
Less than 5 weeks .....	2,695	2,751	2,722	2,670	2,619	2,587	2,658	2,625	2,518	2,498	2,504	2,656	2,595
5 to 14 weeks .....	2,352	2,439	2,372	2,307	2,293	2,253	2,299	2,306	2,144	2,111	1,961	1,953	1,980
15 weeks and over .....	2,423	2,346	2,337	2,369	2,368	2,281	2,225	2,129	2,078	2,088	1,940	1,791	1,500
15 to 26 weeks .....	1,123	1,098	1,089	1,114	1,044	1,011	1,033	999	1,039	1,014	918	823	697
27 weeks and over .....	1,300	1,249	1,249	1,254	1,324	1,270	1,192	1,130	1,038	1,074	1,022	968	803
Average (mean) duration, in weeks .....	16.8	16.3	16.3	16.6	17.3	16.9	16.1	15.7	15.3	16.1	16.1	15.2	14.3
Median duration, in weeks .....	8.4	8.2	8.2	8.2	8.4	8.4	8.0	8.0	7.9	8.1	7.7	7.1	6.3
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	36.1	36.5	36.6	36.3	36.0	36.3	37.0	37.2	37.4	37.3	39.1	41.5	42.7
5 to 14 weeks .....	31.5	32.4	31.9	31.4	31.5	31.6	32.0	32.7	31.8	31.5	30.6	30.5	32.6
15 weeks and over .....	32.4	31.1	31.5	32.2	32.5	32.0	31.0	30.2	30.8	31.2	30.3	28.0	24.7
15 to 26 weeks .....	15.0	14.6	14.7	15.2	14.3	14.2	14.4	14.2	15.4	15.1	14.3	12.9	11.5
27 weeks and over .....	17.4	16.6	16.8	17.1	18.2	17.8	16.6	16.0	15.4	16.0	16.0	15.1	13.2

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	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
<b>TOTAL</b>								
Civilian noninstitutional population .....	202,835	204,905	169,785	171,262	23,950	24,319	20,236	20,975
Civilian labor force .....	136,233	137,472	114,728	115,313	15,413	15,889	13,632	14,314
Percent of population .....	67.2	67.1	67.6	67.3	64.4	65.3	67.4	68.2
Employed .....	129,552	131,492	110,007	111,015	13,827	14,491	12,615	13,360
Agriculture .....	3,612	3,528	3,413	3,317	131	138	800	768
Nonagricultural industries .....	125,941	127,964	106,594	107,698	13,696	14,353	11,815	12,591
Unemployed .....	6,681	5,981	4,722	4,297	1,586	1,398	1,017	954
Unemployment rate .....	4.9	4.4	4.1	3.7	10.3	8.8	7.5	6.7
Not in labor force .....	66,602	67,433	55,056	55,949	8,537	8,430	6,604	6,661
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	97,560	98,595	82,463	83,235	10,737	10,901	10,324	10,686
Civilian labor force .....	73,419	74,045	62,796	63,117	7,325	7,531	8,266	8,571
Percent of population .....	75.3	75.1	76.1	75.8	68.2	69.1	80.1	80.2
Employed .....	69,897	70,941	60,246	60,806	6,554	6,907	7,716	8,064
Agriculture .....	2,770	2,695	2,596	2,525	121	117	705	686
Nonagricultural industries .....	67,127	68,246	57,649	58,280	6,433	6,789	7,011	7,378
Unemployed .....	3,522	3,104	2,550	2,311	771	624	551	507
Unemployment rate .....	4.8	4.2	4.1	3.7	10.5	8.3	6.7	5.9
Not in labor force .....	24,141	24,551	19,668	20,118	3,412	3,371	2,057	2,115
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	89,758	90,634	76,221	76,865	9,548	9,702	9,209	9,530
Civilian labor force .....	69,209	69,734	59,189	59,430	6,863	7,055	7,733	8,003
Percent of population .....	77.1	76.9	77.7	77.3	71.9	72.7	84.0	84.0
Employed .....	66,449	67,324	57,183	57,651	6,278	6,565	7,290	7,615
Agriculture .....	2,519	2,472	2,355	2,310	117	111	669	663
Nonagricultural industries .....	63,930	64,852	54,828	55,341	6,161	6,454	6,621	6,953
Unemployed .....	2,760	2,410	2,006	1,780	584	490	442	387
Unemployment rate .....	4.0	3.5	3.4	3.0	8.5	6.9	5.7	4.8
Not in labor force .....	20,549	20,900	17,032	17,434	2,685	2,647	1,477	1,527
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	105,275	106,310	87,322	88,026	13,213	13,417	9,913	10,289
Civilian labor force .....	62,814	63,428	51,933	52,196	8,088	8,358	5,366	5,743
Percent of population .....	59.7	59.7	59.5	59.3	61.2	62.3	54.1	55.8
Employed .....	59,655	60,551	49,761	50,210	7,273	7,585	4,899	5,296
Agriculture .....	841	834	816	792	10	20	95	83
Nonagricultural industries .....	58,814	59,718	48,945	49,418	7,263	7,564	4,804	5,213
Unemployed .....	3,159	2,877	2,172	1,986	815	774	467	447
Unemployment rate .....	5.0	4.5	4.2	3.8	10.1	9.3	8.7	7.8
Not in labor force .....	42,461	42,882	35,389	35,830	5,125	5,059	4,547	4,546
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	97,762	98,662	81,413	81,992	11,988	12,176	8,914	9,251
Civilian labor force .....	58,896	59,352	48,632	48,795	7,623	7,805	4,986	5,280
Percent of population .....	60.2	60.2	59.7	59.5	63.6	64.1	55.9	57.1
Employed .....	56,372	57,058	46,916	47,226	6,954	7,182	4,608	4,940
Agriculture .....	789	759	764	722	10	17	90	77
Nonagricultural industries .....	55,583	56,299	46,152	46,504	6,944	7,166	4,518	4,862
Unemployed .....	2,524	2,293	1,716	1,569	669	623	378	340
Unemployment rate .....	4.3	3.9	3.5	3.2	8.8	8.0	7.6	6.4
Not in labor force .....	38,867	39,310	32,781	33,196	4,365	4,371	3,929	3,971
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	15,315	15,609	12,151	12,405	2,414	2,440	2,113	2,194
Civilian labor force .....	8,128	8,387	6,907	7,087	928	1,029	914	1,031
Percent of population .....	53.1	53.7	56.8	57.1	38.4	42.2	43.3	47.0
Employed .....	6,731	7,110	5,908	6,139	594	744	717	805
Agriculture .....	303	297	294	285	4	11	41	28
Nonagricultural industries .....	6,428	6,812	5,614	5,853	590	733	676	776
Unemployed .....	1,398	1,277	999	949	333	285	197	227
Unemployment rate .....	17.2	15.2	14.5	13.4	35.9	27.7	21.6	22.0
Not in labor force .....	7,187	7,222	5,244	5,318	1,486	1,411	1,199	1,163

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 <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	 1997	 1998	 1997	 1998	 1997	 1998	 1997	 1998
<b>TOTAL</b>								
Civilian noninstitutional population .....	20,236	20,975	12,453	13,157	1,938	2,082	1,047	1,026
Civilian labor force .....	13,632	14,314	8,505	9,095	1,175	1,248	667	635
Percent of population .....	67.4	68.2	68.3	69.1	60.6	59.9	63.7	61.9
Employed .....	12,615	13,360	7,902	8,480	1,074	1,161	619	598
Agriculture .....	800	768	676	667	14	14	6	9
Nonagricultural industries .....	11,815	12,591	7,225	7,814	1,060	1,146	613	588
Unemployed .....	1,017	954	603	615	101	87	48	37
Unemployment rate .....	7.5	6.7	7.1	6.8	8.6	7.0	7.2	5.8
Not in labor force .....	6,604	6,661	3,948	4,062	763	834	380	391
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	10,324	10,686	6,530	6,956	875	933	544	503
Civilian labor force .....	8,266	8,571	5,309	5,661	632	639	410	375
Percent of population .....	80.1	80.2	81.3	81.4	72.3	68.5	75.3	74.5
Employed .....	7,716	8,064	4,971	5,321	579	595	386	362
Agriculture .....	705	686	595	592	9	13	5	7
Nonagricultural industries .....	7,011	7,378	4,377	4,729	571	582	381	356
Unemployed .....	551	507	337	341	53	45	24	13
Unemployment rate .....	6.7	5.9	6.4	6.0	8.4	7.0	5.9	3.4
Not in labor force .....	2,057	2,115	1,221	1,295	243	294	135	128
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	9,209	9,530	5,808	6,153	781	833	520	475
Civilian labor force .....	7,733	8,003	4,965	5,243	594	606	395	356
Percent of population .....	84.0	84.0	85.5	85.2	76.1	72.7	75.9	74.9
Employed .....	7,290	7,615	4,689	4,989	556	569	372	345
Agriculture .....	669	663	561	573	9	10	5	7
Nonagricultural industries .....	6,621	6,953	4,128	4,417	547	559	367	338
Unemployed .....	442	387	276	254	38	36	23	11
Unemployment rate .....	5.7	4.8	5.6	4.8	6.4	6.0	5.7	3.1
Not in labor force .....	1,477	1,527	843	910	187	228	125	119
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	9,913	10,289	5,923	6,201	1,063	1,149	503	523
Civilian labor force .....	5,366	5,743	3,196	3,434	543	609	258	260
Percent of population .....	54.1	55.8	54.0	55.4	51.0	53.0	51.2	49.7
Employed .....	4,899	5,296	2,930	3,159	495	566	234	235
Agriculture .....	95	83	82	75	5	2	2	3
Nonagricultural industries .....	4,804	5,213	2,849	3,084	489	564	232	233
Unemployed .....	467	447	266	275	48	43	24	24
Unemployment rate .....	8.7	7.8	8.3	8.0	8.9	7.0	9.3	9.4
Not in labor force .....	4,547	4,546	2,727	2,767	520	540	245	263
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	8,914	9,251	5,289	5,515	936	1,042	490	499
Civilian labor force .....	4,986	5,280	2,943	3,112	500	555	252	248
Percent of population .....	55.9	57.1	55.6	56.4	53.4	53.3	51.5	49.8
Employed .....	4,608	4,940	2,735	2,918	463	521	228	225
Agriculture .....	90	77	78	69	4	2	2	3
Nonagricultural industries .....	4,518	4,862	2,657	2,849	459	519	227	223
Unemployed .....	378	340	208	193	37	34	24	23
Unemployment rate .....	7.6	6.4	7.1	6.2	7.4	6.2	9.5	9.3
Not in labor force .....	3,929	3,971	2,346	2,403	436	487	238	250
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	2,113	2,194	1,356	1,489	221	207	38	52
Civilian labor force .....	914	1,031	596	740	80	87	20	31
Percent of population .....	43.3	47.0	44.0	49.7	36.4	42.2	( <sup>2</sup> )	( <sup>2</sup> )
Employed .....	717	805	477	573	55	70	19	28
Agriculture .....	41	28	37	24	1	2	-	-
Nonagricultural industries .....	676	776	440	548	54	68	19	28
Unemployed .....	197	227	119	168	26	17	2	3
Unemployment rate .....	21.6	22.0	20.0	22.7	32.2	19.5	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	1,199	1,163	760	749	141	119	17	22

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

<sup>2</sup> Data not shown where base is less than 60,000.

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	
	 1997	 1998	 1997	 1998	 1997	 1998	 1997	 1998
<b>SEX</b>								
Total (all civilian workers) .....	129,552	131,492	110,007	111,015	13,827	14,491	12,615	13,360
Men .....	69,897	70,941	60,246	60,806	6,554	6,907	7,716	8,064
Women .....	59,655	60,551	49,761	50,210	7,273	7,585	4,899	5,296
<b>OCCUPATION</b>								
Managerial and professional specialty .....	37,409	38,584	32,959	33,742	2,678	2,968	1,831	2,014
Executive, administrative, and managerial .....	18,335	18,841	16,376	16,719	1,214	1,328	985	1,059
Professional specialty .....	19,074	19,743	16,583	17,023	1,464	1,640	846	955
Technical, sales, and administrative support .....	38,116	38,428	32,410	32,458	3,995	4,144	2,944	3,203
Technicians and related support .....	4,196	4,314	3,522	3,597	411	432	257	275
Sales occupations .....	15,737	15,850	13,708	13,703	1,262	1,370	1,198	1,295
Administrative support, including clerical .....	18,183	18,264	15,180	15,158	2,322	2,342	1,489	1,634
Service occupations .....	17,478	17,778	13,657	13,889	2,969	3,021	2,486	2,685
Private household .....	755	833	615	714	118	92	185	249
Protective service .....	2,305	2,382	1,809	1,868	424	443	204	221
Service, except private household and protective .....	14,418	14,563	11,233	11,308	2,428	2,486	2,097	2,215
Precision production, craft, and repair .....	14,301	14,731	12,649	12,972	1,186	1,240	1,690	1,823
Mechanics and repairers .....	4,598	4,936	4,082	4,365	377	396	447	500
Construction trades .....	5,565	5,677	5,034	5,102	400	450	781	798
Other precision production, craft, and repair .....	4,138	4,119	3,533	3,505	409	394	462	525
Operators, fabricators, and laborers .....	18,487	18,282	14,835	14,527	2,826	2,940	2,813	2,815
Machine operators, assemblers, and inspectors .....	7,924	7,710	6,228	6,039	1,227	1,188	1,409	1,298
Transportation and material moving occupations .....	5,471	5,427	4,506	4,369	831	925	571	606
Handlers, equipment cleaners, helpers, and laborers .....	5,093	5,145	4,100	4,119	769	827	833	910
Construction laborers .....	829	815	702	693	105	105	190	185
Other handlers, equipment cleaners, helpers, and laborers .....	4,264	4,329	3,398	3,426	663	722	644	725
Farming, forestry, and fishing .....	3,762	3,689	3,497	3,428	173	178	851	820
<b>CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	2,101	2,072	1,959	1,922	100	103	707	682
Self-employed workers .....	1,454	1,412	1,397	1,352	31	34	93	85
Unpaid family workers .....	56	44	56	43	-	1	-	2
Nonagricultural industries:								
Wage and salary workers .....	116,648	118,780	98,201	99,456	13,239	13,875	11,233	11,946
Government .....	18,094	18,327	14,486	14,608	2,860	2,895	1,283	1,388
Private industries .....	98,555	100,453	83,715	84,848	10,380	10,980	9,950	10,558
Private households .....	894	965	707	814	160	118	212	279
Other industries .....	97,661	99,488	83,008	84,034	10,220	10,861	9,738	10,279
Self-employed workers .....	9,154	9,074	8,273	8,150	456	475	569	624
Unpaid family workers .....	138	109	120	92	-	4	13	22
<b>FULL- OR PART-TIME STATUS</b>								
Full-time workers .....	106,395	108,241	89,720	90,922	11,920	12,338	10,559	11,310
Part-time workers .....	23,157	23,251	20,286	20,094	1,907	2,153	2,055	2,050

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 <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
<b>SEX</b>								
Total (all civilian workers) .....	12,615	13,360	7,902	8,480	1,074	1,161	619	598
Men .....	7,716	8,064	4,971	5,321	579	595	386	362
Women .....	4,899	5,296	2,930	3,159	495	566	234	235
<b>OCCUPATION</b>								
Managerial and professional specialty .....	1,831	2,014	955	1,056	193	213	188	151
Executive, administrative, and managerial .....	985	1,059	513	566	89	106	114	80
Professional specialty .....	846	955	442	490	104	106	74	71
Technical, sales, and administrative support .....	2,944	3,203	1,720	1,874	305	360	193	217
Technicians and related support .....	257	275	150	143	25	36	16	32
Sales occupations .....	1,198	1,295	701	786	82	100	92	110
Administrative support, including clerical .....	1,489	1,634	869	945	198	225	85	74
Service occupations .....	2,486	2,685	1,471	1,643	215	243	79	93
Private household .....	185	249	94	123	5	10	4	6
Protective service .....	204	221	114	116	38	31	11	16
Service, except private household and protective .....	2,097	2,215	1,263	1,405	172	202	64	70
Precision production, craft, and repair .....	1,690	1,823	1,187	1,217	120	122	45	65
Mechanics and repairers .....	447	500	283	297	48	37	23	33
Construction trades .....	781	798	595	572	45	33	13	19
Other precision production, craft, and repair .....	462	525	309	348	28	52	8	13
Operators, fabricators, and laborers .....	2,813	2,815	1,856	1,985	223	208	107	61
Machine operators, assemblers, and inspectors .....	1,409	1,298	945	924	110	101	38	22
Transportation and material moving occupations .....	571	606	344	393	61	47	37	29
Handlers, equipment cleaners, helpers, and laborers .....	833	910	567	667	52	60	31	10
Construction laborers .....	190	185	147	137	4	13	3	4
Other handlers, equipment cleaners, helpers, and laborers .....	644	725	420	530	48	47	29	6
Farming, forestry, and fishing .....	851	820	712	704	18	14	8	11
<b>CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	707	682	619	600	10	13	2	5
Self-employed workers .....	93	85	58	66	5	-	5	4
Unpaid family workers .....	-	2	-	1	-	1	-	-
Nonagricultural industries:								
Wage and salary workers .....	11,233	11,946	6,859	7,391	1,032	1,113	566	560
Government .....	1,283	1,388	827	867	177	168	48	52
Private industries .....	9,950	10,558	6,032	6,524	855	945	519	508
Private households .....	212	279	106	139	6	12	4	6
Other industries .....	9,738	10,279	5,926	6,386	849	933	514	502
Self-employed workers .....	569	624	354	401	28	33	47	27
Unpaid family workers .....	13	22	12	21	-	-	-	1
<b>FULL- OR PART-TIME STATUS</b>								
Full-time workers .....	10,559	11,310	6,620	7,183	874	982	535	505
Part time workers .....	2,055	2,050	1,282	1,298	200	179	85	93

<sup>1</sup> 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	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
Total, 16 years and over .....	129,552	131,492	110,007	111,015	13,827	14,491	12,615	13,360
16 to 19 years .....	6,731	7,110	5,908	6,139	594	744	717	805
16 to 17 years .....	2,635	2,738	2,361	2,423	202	239	233	267
18 to 19 years .....	4,096	4,372	3,547	3,715	392	505	484	537
20 to 24 years .....	12,471	12,656	10,462	10,622	1,465	1,481	1,813	1,904
25 years and over .....	110,350	111,726	93,637	94,255	11,768	12,266	10,086	10,651
25 to 54 years .....	94,369	95,210	79,473	79,694	10,511	10,899	9,176	9,623
55 years and over .....	15,982	16,516	14,164	14,561	1,257	1,367	910	1,028
Men, 16 years and over .....	69,897	70,941	60,246	60,806	6,554	6,907	7,716	8,064
16 to 19 years .....	3,448	3,617	3,063	3,155	276	342	426	448
16 to 17 years .....	1,354	1,411	1,224	1,246	95	115	129	153
18 to 19 years .....	2,093	2,206	1,839	1,908	180	227	297	295
20 to 24 years .....	6,669	6,717	5,731	5,740	656	693	1,201	1,197
25 years and over .....	59,781	60,607	51,452	51,911	5,622	5,872	6,089	6,419
25 to 54 years .....	50,813	51,399	43,433	43,711	5,002	5,199	5,530	5,786
55 years and over .....	8,968	9,208	8,019	8,200	620	673	560	632
Women, 16 years and over .....	59,655	60,551	49,761	50,210	7,273	7,585	4,899	5,296
16 to 19 years .....	3,283	3,493	2,845	2,984	318	402	291	356
16 to 17 years .....	1,281	1,327	1,137	1,177	107	124	104	114
18 to 19 years .....	2,002	2,165	1,709	1,807	212	278	187	242
20 to 24 years .....	5,802	5,939	4,731	4,882	809	788	612	707
25 years and over .....	50,570	51,119	42,185	42,344	6,146	6,394	3,997	4,232
25 to 54 years .....	43,556	43,811	36,040	35,983	5,509	5,700	3,646	3,836
55 years and over .....	7,014	7,308	6,145	6,361	637	694	350	396

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	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
Total, 16 years and over .....	4.9	4.4	4.1	3.7	10.3	8.8	7.5	6.7
16 to 19 years .....	17.2	15.2	14.5	13.4	35.9	27.7	21.6	22.0
16 to 17 years .....	20.7	19.0	18.0	16.7	40.5	35.9	30.0	27.5
18 to 19 years .....	14.8	12.7	12.0	11.1	33.3	23.0	16.8	18.9
20 to 24 years .....	8.4	7.7	6.5	6.3	19.4	16.6	9.6	7.7
25 years and over .....	3.6	3.2	3.1	2.7	7.1	6.3	5.9	5.1
25 to 54 years .....	3.7	3.3	3.2	2.8	7.5	6.5	5.8	5.1
55 years and over .....	2.9	2.4	2.7	2.1	4.0	4.6	6.7	4.9
Men, 16 years and over .....	4.8	4.2	4.1	3.7	10.5	8.3	6.7	5.9
16 to 19 years .....	18.1	16.1	15.1	14.4	40.4	28.2	20.3	21.1
16 to 17 years .....	21.7	20.2	18.3	18.7	47.2	31.4	26.4	28.5
18 to 19 years .....	15.6	13.3	12.8	11.4	36.0	26.5	17.3	16.7
20 to 24 years .....	8.0	7.7	6.3	6.3	20.3	17.6	8.1	7.3
25 years and over .....	3.5	3.0	3.1	2.6	6.9	5.5	5.2	4.4
25 to 54 years .....	3.6	3.1	3.1	2.7	7.3	5.5	5.1	4.4
55 years and over .....	2.9	2.5	2.8	2.1	3.4	5.3	6.2	4.4
Women, 16 years and over .....	5.0	4.5	4.2	3.8	10.1	9.3	8.7	7.8
16 to 19 years .....	16.2	14.3	13.8	12.3	31.5	27.2	23.4	23.0
16 to 17 years .....	19.5	17.8	17.6	14.4	33.0	39.6	33.9	26.2
18 to 19 years .....	14.0	12.0	11.1	10.8	30.8	19.9	16.0	21.4
20 to 24 years .....	8.9	7.7	6.7	6.3	18.7	15.7	12.3	8.4
25 years and over .....	3.7	3.4	3.2	2.8	7.3	6.9	6.8	6.1
25 to 54 years .....	3.9	3.6	3.2	3.0	7.6	7.3	6.7	6.2
55 years and over .....	2.9	2.4	2.7	2.1	4.5	3.8	7.4	5.7

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	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
<b>NUMBER OF UNEMPLOYED</b>								
Total unemployed .....	6,681	5,981	4,722	4,297	1,586	1,398	1,017	954
Job losers and persons who completed temporary jobs .....	2,875	2,597	2,129	1,921	612	562	453	433
On temporary layoff .....	826	681	687	558	114	94	151	119
Not on temporary layoff .....	2,048	1,916	1,442	1,363	498	468	301	314
Permanent job losers .....	1,430	1,342	1,012	963	333	312	185	210
Persons who completed temporary jobs .....	618	573	430	399	165	156	117	104
Job leavers .....	739	652	580	511	130	110	99	94
Reentrants .....	2,426	2,132	1,613	1,457	660	574	335	290
New entrants .....	641	599	400	408	184	152	130	137
<b>PERCENT DISTRIBUTION</b>								
Job losers and persons who completed temporary jobs .....	43.0	43.4	45.1	44.7	38.6	40.2	44.5	45.4
On temporary layoff .....	12.4	11.4	14.5	13.0	7.2	6.7	14.9	12.5
Not on temporary layoff .....	30.7	32.0	30.5	31.7	31.4	33.5	29.6	32.9
Job leavers .....	11.1	10.9	12.3	11.9	8.2	7.9	9.7	9.8
Reentrants .....	36.3	35.7	34.2	33.9	41.6	41.0	32.9	30.4
New entrants .....	9.6	10.0	8.5	9.5	11.6	10.9	12.8	14.4
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers and persons who completed temporary jobs .....	2.1	1.9	1.9	1.7	4.0	3.5	3.3	3.0
Job leavers .....	.5	.5	.5	.4	.8	.7	.7	.7
Reentrants .....	1.8	1.6	1.4	1.3	4.3	3.6	2.5	2.0
New entrants .....	.5	.4	.3	.4	1.2	1.0	1.0	1.0

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	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	6,681	5,981	4,722	4,297	1,586	1,398	1,017	954
Less than 5 weeks .....	2,626	2,686	1,955	2,081	542	493	393	415
5 to 14 weeks .....	1,856	1,710	1,327	1,192	439	443	265	274
15 weeks and over .....	2,200	1,584	1,440	1,024	605	462	359	266
15 to 26 weeks .....	1,137	762	768	519	304	204	171	129
27 weeks and over .....	1,063	822	672	505	301	258	188	137
Average (mean) duration, in weeks .....	15.5	14.4	14.2	12.9	18.2	18.2	17.1	14.8
Median duration, in weeks .....	7.9	6.2	7.1	5.0	9.6	8.9	8.3	6.7
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	39.3	44.9	41.4	48.4	34.2	35.3	38.6	43.4
5 to 14 weeks .....	27.8	28.6	28.1	27.7	27.7	31.7	26.1	28.7
15 weeks and over .....	32.9	26.5	30.5	23.8	38.1	33.0	35.3	27.9
15 to 26 weeks .....	17.0	12.7	16.3	12.1	19.2	14.6	16.8	13.6
27 weeks and over .....	15.9	13.7	14.2	11.8	19.0	18.5	18.5	14.3

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

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	
	II 1997	II 1998	II 1997	II 1998
<b>SEX AND AGE</b>				
Total, 16 years and over .....	93,387	95,548	\$499	\$515
Men, 16 years and over .....	53,329	54,625	572	590
16 to 24 years .....	6,321	6,409	316	335
25 years and over .....	47,008	48,216	609	627
Women, 16 years and over .....	40,058	40,923	428	446
16 to 24 years .....	4,511	4,866	289	305
25 years and over .....	35,548	36,057	457	474
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	77,856	79,361	515	532
Men .....	45,493	46,237	589	606
Women .....	32,363	33,124	443	458
Black .....	11,338	11,827	397	420
Men .....	5,490	5,890	424	471
Women .....	5,847	5,937	379	390
Hispanic origin .....	9,789	10,552	352	365
Men .....	6,462	6,793	368	381
Women .....	3,327	3,759	320	333

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.



**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	
	II 1997	II 1998	II 1997	II 1998
<b>SEX AND AGE</b>				
Total, 16 years and over .....	20,853	20,832	\$147	\$156
Men, 16 years and over .....	6,584	6,367	138	146
16 to 24 years .....	3,461	3,607	113	122
25 years and over .....	3,123	2,759	180	192
Women, 16 years and over .....	14,268	14,466	151	160
16 to 24 years .....	4,365	4,355	111	115
25 years and over .....	9,903	10,111	173	190
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	18,090	17,813	148	156
Men .....	5,541	5,386	136	145
Women .....	12,549	12,427	153	162
Black .....	1,883	2,035	138	152
Men .....	677	618	143	153
Women .....	1,206	1,417	136	151
Hispanic origin .....	1,999	1,936	142	145
Men .....	723	637	159	148
Women .....	1,276	1,299	132	144

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	
	II 1997	II 1998	II 1997	II 1998
<b>TOTAL</b>				
Managerial and professional specialty .....	28,160	29,076	\$727	\$746
Executive, administrative, and managerial .....	13,978	14,079	694	748
Professional specialty .....	14,183	14,997	748	745
Technical, sales, and administrative support .....	26,540	27,404	449	473
Technicians and related support .....	3,443	3,666	567	602
Sales occupations .....	9,340	9,586	466	494
Administrative support, including clerical .....	13,757	14,151	418	436
Service occupations .....	10,039	10,421	311	330
Private household .....	338	352	214	229
Protective service .....	1,915	2,082	510	603
Service, except private household and protective .....	7,786	7,987	295	312
Precision production, craft, and repair .....	11,671	11,740	545	572
Mechanics and repairers .....	3,970	4,070	568	596
Construction trades .....	4,057	4,150	541	543
Other precision production, craft, and repair .....	3,644	3,520	526	562
Operators, fabricators, and laborers .....	15,230	15,194	402	412
Machine operators, assemblers, and inspectors .....	7,186	7,056	385	401
Transportation and material moving occupations .....	4,522	4,338	502	511
Handlers, equipment cleaners, helpers, and laborers .....	3,521	3,800	340	348
Farming, forestry, and fishing .....	1,748	1,714	291	302
<b>Men</b>				
Managerial and professional specialty .....	14,131	14,863	862	888
Executive, administrative, and managerial .....	7,339	7,577	850	903
Professional specialty .....	6,792	7,286	878	876
Technical, sales, and administrative support .....	10,278	10,405	589	603
Technicians and related support .....	1,806	1,893	680	686
Sales occupations .....	5,167	5,245	592	625
Administrative support, including clerical .....	3,306	3,266	530	507
Service occupations .....	5,012	5,222	366	392
Private household .....	19	19	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,604	1,784	\$527	\$623
Service, except private household and protective .....	3,388	3,419	314	336
Precision production, craft, and repair .....	10,675	10,894	562	586
Mechanics and repairers .....	3,789	3,918	571	601
Construction trades .....	3,991	4,116	541	543
Other precision production, craft, and repair .....	2,895	2,860	582	609
Operators, fabricators, and laborers .....	11,674	11,744	438	450
Machine operators, assemblers, and inspectors .....	4,604	4,499	437	460
Transportation and material moving occupations .....	4,198	4,000	511	519
Handlers, equipment cleaners, helpers, and laborers .....	2,872	3,245	357	359
Farming, forestry, and fishing .....	1,558	1,498	296	306
<b>Women</b>				
Managerial and professional specialty .....	14,029	14,212	622	640
Executive, administrative, and managerial .....	6,638	6,501	599	613
Professional specialty .....	7,391	7,711	653	660
Technical, sales, and administrative support .....	16,261	16,999	398	417
Technicians and related support .....	1,637	1,773	484	506
Sales occupations .....	4,173	4,341	348	365
Administrative support, including clerical .....	10,451	10,885	397	418
Service occupations .....	5,027	5,199	283	300
Private household .....	319	333	212	225
Protective service .....	311	298	428	416
Service, except private household and protective .....	4,398	4,569	281	299
Precision production, craft, and repair .....	996	847	380	389
Mechanics and repairers .....	180	152	504	473
Construction trades .....	66	34	( <sup>1</sup> )	( <sup>1</sup> )
Other precision production, craft, and repair .....	749	660	\$352	\$371
Operators, fabricators, and laborers .....	3,555	3,450	315	324
Machine operators, assemblers, and inspectors .....	2,582	2,558	315	327
Transportation and material moving occupations .....	325	339	361	393
Handlers, equipment cleaners, helpers, and laborers .....	649	554	301	294
Farming, forestry, and fishing .....	189	215	256	266

<sup>1</sup> 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.

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							
	II 1997	II 1998	Total		Employed		Unemployed			
			II 1997	II 1998	II 1997	II 1998	Number		Percent of labor force	
							II 1997	II 1998	II 1997	II 1998
<b>VIETNAM-ERA VETERANS</b>										
Total, 40 years and over .....	7,809	7,702	6,721	6,511	6,506	6,336	215	176	3.2	2.7
40 to 54 years .....	6,342	6,000	5,760	5,361	5,576	5,210	183	151	3.2	2.8
40 to 44 years .....	1,066	787	956	698	916	666	40	32	4.2	4.6
45 to 49 years .....	2,751	2,292	2,526	2,056	2,454	2,013	72	43	2.8	2.1
50 to 54 years .....	2,525	2,921	2,277	2,606	2,206	2,531	72	75	3.1	2.9
55 years and over .....	1,466	1,702	961	1,151	930	1,126	31	25	3.3	2.2
<b>NONVETERANS</b>										
Total, 40 to 54 years .....	19,328	20,258	17,536	18,372	16,972	17,854	564	518	3.2	2.8
40 to 44 years .....	8,900	9,185	8,203	8,474	7,930	8,251	273	223	3.3	2.6
45 to 49 years .....	6,114	6,712	5,567	6,126	5,390	5,948	177	178	3.2	2.9
50 to 54 years .....	4,314	4,361	3,766	3,772	3,652	3,655	114	117	3.0	3.1

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

household survey. Population and labor force levels for nonveterans from the third quarter of 1995 through the first quarter of 1998 are slightly overstated because they incorporate incorrect weighting procedures. Corrections will be made as soon as the necessary microdata files become available.

**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	
	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998	II 1997	II 1998
<b>Total, 40 to 54 years</b>												
Civilian noninstitutional population .....	5,614	5,330	604	536	269	253	16,327	17,049	1,989	2,156	1,916	2,049
Civilian labor force .....	5,134	4,803	515	438	224	218	15,040	15,664	1,584	1,752	1,703	1,816
Employed .....	4,974	4,680	492	417	208	216	14,633	15,272	1,470	1,664	1,603	1,720
Unemployed .....	160	124	22	21	16	2	407	392	114	89	100	96
Unemployment rate .....	3.1	2.6	4.3	4.9	7.2	.9	2.7	2.5	7.2	5.1	5.9	5.3
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	903	652	128	110	52	50	7,523	7,740	936	975	893	911
Civilian labor force .....	816	579	105	99	36	40	7,035	7,253	775	800	809	828
Employed .....	779	557	103	92	32	40	6,838	7,089	713	756	757	786
Unemployed .....	37	21	3	7	4	-	197	164	61	44	51	42
Unemployment rate .....	4.5	3.7	2.6	6.7	( <sup>1</sup> )	( <sup>1</sup> )	2.8	2.3	7.9	5.5	6.4	5.1
<b>45 to 49 years</b>												
Civilian noninstitutional population .....	2,428	2,019	283	222	106	92	5,185	5,657	631	718	550	703
Civilian labor force .....	2,251	1,824	240	186	91	75	4,788	5,219	502	598	473	621
Employed .....	2,190	1,788	230	179	88	75	4,661	5,077	468	570	450	591
Unemployed .....	62	36	10	7	3	-	127	141	34	27	23	29
Unemployment rate .....	2.7	2.0	4.0	3.8	3.5	-	2.6	2.7	6.7	4.5	4.9	4.7
<b>50 to 54 years</b>												
Civilian noninstitutional population .....	2,283	2,659	193	204	111	111	3,619	3,652	423	462	474	435
Civilian labor force .....	2,067	2,401	170	153	97	103	3,217	3,193	308	355	421	367
Employed .....	2,005	2,334	160	146	88	101	3,134	3,106	289	337	396	343
Unemployed .....	61	67	10	8	9	2	84	87	19	18	25	25
Unemployment rate .....	3.0	2.8	5.9	5.0	9.4	2.0	2.6	2.7	6.2	5.0	6.0	6.7

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

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 .....	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966 .....	357	33,500	1,500	6,000
Jan. 1967 to July 1971 .....	449	48,000	2,000	8,500
Aug. 1971 to July 1972 .....	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977 .....	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979 .....	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981 .....	629	62,200	2,800	12,000
May 1981 to Dec. 1984 .....	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988 .....	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989 .....	729	53,200	2,600	11,500
April 1989 to Oct. 1994 <sup>3</sup> .....	729	57,400	2,600	11,800
Nov. 1994 to Aug. 1995 <sup>4</sup> .....	792	54,500	3,500	10,000
Sept. 1995 to Dec. 1995 .....	792	52,900	3,400	9,700
Jan. 1996 to present .....	754	46,800	3,200	9,000

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

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

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

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

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

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
<b>Occupation</b>		
Executive, administrative, and managerial ..	.20	.24
Professional specialty .....	.20	.23
Technicians and related support .....	.45	.54
Sales .....	.30	.36
Administrative support, including clerical .....	.25	.30
Private household .....	1.75	2.08
Protective service .....	.67	.80
Service, except private household and protective service .....	.38	.45
Precision production, craft, and repair .....	.34	.40
Machine operators, assemblers, and inspectors .....	.49	.58
Transportation and material moving .....	.55	.66
Handlers, equipment cleaners, helpers, and laborers .....	.73	.87
Farming, forestry, and fishing .....	.73	.87
<b>Industry</b>		
Nonagricultural private wage and salary workers .....	.13	.15
Goods-producing industries .....	.25	.30
Mining .....	1.39	1.65
Construction .....	.68	.81
Manufacturing .....	.26	.31
Durable goods .....	.32	.38
Nondurable goods .....	.42	.50
Service-producing industries .....	.15	.18
Transportation, communications, and public utilities .....	.42	.50
Wholesale and retail trade .....	.27	.32
Finance and services .....	.19	.23
Government workers .....	.21	.25
Agricultural wage and salary workers .....	1.18	1.40

*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.

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

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 <sup>1</sup> .....	-0.00017682	2985.26
Men <sup>1</sup> .....	-0.00032770	2764.05
Women .....	-0.00029553	2529.99
Both sexes, 16 to 19 years .....	-0.00171805	2544.62
White <sup>1</sup> .....	-0.00020028	2984.72
Men .....	-0.00036840	2766.67
Women .....	-0.00033710	2526.82
Both sexes, 16 to 19 years ....	-0.00204195	2549.88
Black .....	-0.00125300	3139.26
Men .....	-0.00302096	2930.79
Women .....	-0.00182509	2637.41
Both sexes, 16 to 19 years ....	-0.01294516	2949.48
Hispanic origin .....	-0.00206380	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 .....	-0.00024885	2582.39
Black .....	-0.00134884	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 .....	-0.00017962	2957.13
Black .....	-0.00212109	3149.77
Hispanic origin .....	-0.00101820	3576.47

<sup>1</sup> 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.

$$a = -0.00125300 \quad b = 3139.26$$

$$s_x = \sqrt{(-0.00125300)(11,600,000)^2 + (3139.26)(11,600,000)} \doteq 140,000$$

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

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

**Step 1.** The average for the second quarter is 11,200,000.

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

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

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

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

The average of the 2 quarters is 11,400,000.

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

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

Step 3. Multiply this result by the factor .84 from table

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

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

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

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



# Establishment Data ("B" tables)

## COLLECTION

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

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

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

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

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

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

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

graphic stratification and differences in the timing of benchmark adjustments.

## CONCEPTS

### Industrial classification

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

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

### Industry employment

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

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

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

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

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

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

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

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

### Industry hours and earnings

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

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

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

by members of the construction trades.

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

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

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

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

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

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

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

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

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

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

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

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

For each sample establishment in SIC 3721 and SIC 3761

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

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

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

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

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

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

## ESTIMATING METHODS

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

### Benchmarks

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

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

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

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

sample versus the full universe counts derived from the UI.

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

### Monthly estimation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## THE SAMPLE

### Design

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

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

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

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

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

### Coverage

The establishment survey is the largest monthly sampling operation in the field of social statistics. Table 2-C shows the latest benchmark employment levels and the approximate proportion of total universe employment coverage, at the total nonfarm and major industry division levels. The coverage for individual industries within the divisions may vary from the proportions shown.

### Reliability

The establishment survey, like other sample surveys, is subject to two types of error, sampling and nonsampling error. The magnitude of sampling error, or variance, is directly related to the size of the sample and the percentage of universe coverage achieved by the sample. The establishment survey sample covers over one-third of total universe employment; this yields a very small variance on the total nonfarm estimates. Measurements of error associated with sample estimates are provided in tables 2-D through 2-G.

*Benchmark revision as a measure of survey error.* The sum of sampling and nonsampling error can be considered total survey error. Unlike most sample surveys which publish sampling error as their only measure of error, the CES can derive an annual approximation of total error, on a lagged basis, because of the availability of the independently derived universe data. While the benchmark error is used as a measure of total error for the CES survey estimate, technically, it actually represents the difference between two independent estimates derived from separate survey processes (i.e., the CES sample process and the UI universe process) and thus reflects the errors present in each program. Historically, the benchmark revision has been very small for total nonfarm employment. Over the past decade, percentage benchmark error has averaged 0.3 percent, with a range from zero to 0.7 percent. Table 2-D shows the most current benchmark revisions, along with 10-year mean revisions and mean absolute revisions for major industries. Mean revisions give an indication of bias in the estimates; unbiased estimates have a mean revision close to zero, as over and under estimations cancel out over time. Mean absolute revisions give an overall indicator as to the accuracy of the

**Table 2-B. March employment benchmarks and bias adjustments for total private industries, March 1987-97**  
(In thousands)

Year	Benchmark		Average monthly bias		Over-the-year employment change <sup>5</sup>
	Employment <sup>1</sup>	Revision <sup>2</sup>	Added <sup>3</sup>	Required <sup>4</sup>	
1987 .....	83,173	21	98	99	1,969
1988 .....	86,180	-310	114	88	3,007
1989 .....	89,015	-93	131	123	2,835
1990 .....	90,546	-261	85	63	1,531
1991 .....	88,790	-583	61	12	-1,756
1992 .....	88,347	-130	33	22	-443
1993 .....	89,790	288	83	107	1,443
1994 .....	92,730	688	115	171	2,940
1995 .....	96,175	511	144	187	3,445
1996 .....	98,158	72	129	135	1,983
1997 .....	101,040	518	130	173	2,882

<sup>1</sup> Universe counts for March of each year are used to make annual benchmark adjustments to the employment estimates. About 98 percent of the benchmark employment is from unemployment insurance administrative records, and the remaining 2 percent is from alternate sources. Data represent benchmark levels as originally computed.

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

<sup>3</sup> The average amount of bias adjustment each month over the

course of an inter-benchmark period, i.e., from April of the prior year through March of the given year.

<sup>4</sup> The difference between the March benchmark and the March estimate derived solely from the sample without bias adjustment, converted to a monthly amount by dividing by 12.

<sup>5</sup> March-to-March changes in the benchmark employment level.

NOTE: Data in this table exclude government employment because there is no bias adjustment for this sector.

estimates; the larger the value, the further the estimate was from the final benchmark level.

*Estimated standard errors for employment, hours, and earnings.* The hours and earnings estimates for the basic estimating cells do not have universe data sources available and therefore are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. Like the employment estimates, the hours and earnings estimates are also subject to sampling and nonsampling errors. Estimates of the sampling error for employment, hours, and earnings were computed using the method of random groups and are expressed as relative standard errors (standard error divided by the estimate). Relative standard errors for individual industries with the specified number of employees are presented in table 2-E and for major industries in table 2-F. Multiplying the relative standard error by its estimated value gives the estimate of the standard error. The errors presented here are based on averages observed from sample data over the March 1994 through March 1995 period.

*Standard errors for differences between industries and times.* The standard error of a difference is required to test for significant differences between estimates from two different industries. Since the estimates for the two industries are independent, the standard error of a difference is the square root of the sum of the estimated variance of each estimate,  $S_1^2$  and  $S_2^2$ .

$$S \text{ difference} = \sqrt{s_1^2 + s_2^2}$$

The CES sample overlaps almost entirely from month to month, so monthly estimates are not independent. The covariance between these estimates must be accounted for when testing the significance of the change in estimates over time. The standard error of the change can be estimated as follows.

$$S \text{ change} = \sqrt{s_1^2 + s_2^2 - 2ps_1s_2}$$

If  $S_1 = S_2$ , then:

$$S \text{ change} = \sqrt{2s_1^2(1-p)}$$

Conservative estimates of  $p$  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 1997**

Industry	Bench- marks (thou- sands)	Sample coverage <sup>1</sup>		
		Number of establish- ments	Employees	
			Number (thou- sands)	Percent of bench- marks
Total .....	120,903	316,992	44,036	36
Mining .....	580	3,057	225	39
Construction .....	5,260	25,915	1,010	19
Manufacturing .....	18,519	56,104	8,654	47
Transportation and public utilities .....	6,331	<sup>2</sup> 16,398	2,263	36
Wholesale trade ..	6,567	25,215	1,148	17
Retail trade .....	21,467	60,605	5,086	24
Finance, insurance, and real estate ...	6,988	21,824	2,005	29
Services .....	35,328	75,482	8,333	24
Government:				
Federal .....	2,700	<sup>3</sup> 5,145	2,700	100
State .....	4,692	6,880	3,848	82
Local .....	12,471	20,367	8,764	70

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

<sup>2</sup> The Interstate Commerce Commission provides a complete count of employment for Class I railroads plus Amtrak. A small sample is used to estimate hours and earnings data.

<sup>3</sup> Total Federal employment counts by agency for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of reports covering about 51 percent of employment in Federal establishments.



**Table 2-D. Current (March 1997) and historical benchmark revisions**  
(Numbers in thousands)

Industry	March 1997 benchmark revision		10-year average mean percent revision <sup>1</sup>	
	Level	Percent	Actual	Absolute
Total .....	431	0.4	0.1	0.3
Total private .....	518	.5	.1	.4
Goods-producing .....	196	.8	.1	.8
Mining .....	18	3.1	-.6	1.7
Metal mining .....	-1	-1.9	-1.7	3.3
Coal mining .....	4	4.2	-1.0	2.6
Oil and gas extraction .....	14	4.3	-.4	2.4
Nonmetallic minerals, except fuels .....	0	0	-.4	1.6
Construction .....	56	1.1	-.4	1.3
General building contractors .....	10	.8	-.6	2.3
Heavy construction, except building .....	24	3.4	.6	2.1
Special trade contractors .....	22	.7	-.6	1.2
Manufacturing .....	122	.7	.2	.7
Durable goods .....	73	.7	.3	.8
Lumber and wood products .....	-4	-.5	.2	1.7
Furniture and fixtures .....	2	.4	.3	1.1
Stone, clay, and glass products .....	10	1.9	.5	.9
Primary metal industries .....	0	0	-.1	.8
Blast furnaces and basic steel products .....	-1	-.4	.6	1.2
Fabricated metal products .....	3	.2	.2	.7
Industrial machinery and equipment .....	9	.4	( <sup>2</sup> )	1.2
Computer and office equipment .....	-4	-1.1	-.6	2.0
Electronic and other electrical equipment .....	30	1.8	-.2	.9
Electronic components and accessories .....	22	3.5	.1	1.9
Transportation equipment .....	14	.8	.9	1.0
Motor vehicles and equipment .....	14	1.4	1.3	1.3
Aircraft and parts .....	-5	-1.0	.8	1.4
Instruments and related products .....	6	.7	.3	1.9
Miscellaneous manufacturing .....	3	.8	.3	1.4
Nondurable goods .....	49	.6	.2	.7
Food and kindred products .....	-2	-.1	.2	.9
Tobacco products .....	0	0	.4	4.0
Textile mill products .....	8	1.3	.1	.9
Apparel and other textile products .....	12	1.4	.3	1.3
Paper and allied products .....	9	1.3	.5	.7
Printing and publishing .....	9	.6	-.2	.8
Chemicals and allied products .....	6	.6	( <sup>2</sup> )	.9
Petroleum and coal products .....	0	0	-.5	1.7
Rubber and miscellaneous plastics products .....	6	.6	.5	1.5
Leather and leather products .....	0	0	-.1	2.1
Service-producing .....	235	.2	.1	.3
Transportation and public utilities .....	-22	-.3	-.3	1
Transportation .....	-61	-1.5	-.6	1.4
Railroad transportation .....	-1	-.4	-1.1	1.1
Local and interurban passenger transit .....	-7	-1.5	-.5	2.1
Trucking and warehousing .....	-13	-.8	-1.7	2.9
Water transportation .....	3	1.7	.4	3.5
Transportation by air .....	-46	-4.1	2.0	5.3
Pipelines, except natural gas .....	0	0	.6	5.2
Transportation services .....	2	.5	-1.3	3.0
Communications and public utilities .....	39	1.7	.1	1.2
Communications .....	42	3.0	.2	1.9
Electric, gas, and sanitary services .....	-3	-.3	-.1	.7
Wholesale trade .....	-4	-.1	-.5	1.2
Durable goods .....	5	1	-.5	1.5
Nondurable goods .....	-9	-.3	-.5	1.0

See footnotes at end of table.

**Table 2-D. Current (March 1997) and historical benchmark revisions—Continued**  
(Numbers in thousands)

Industry	March 1997 benchmark revision		10-year average mean percent revision <sup>1</sup>	
	Level	Percent	Actual	Absolute
Retail trade .....	-27	-.1	.4	.6
Building materials and garden supplies .....	6	.7	.1	1.5
General merchandise stores .....	-76	-2.9	1.8	2.9
Department stores .....	-65	-2.8	2.4	3.7
Food stores .....	2	.1	-.2	.7
Automotive dealers and service stations .....	-9	-.4	-1.1	1.1
New and used car dealers .....	-6	-.6	-.7	1.0
Apparel and accessory stores .....	-7	-.7	1.1	1.6
Furniture and home furnishings stores .....	-32	-3.3	-.7	1.4
Eating and drinking places .....	118	1.6	.8	1.2
Miscellaneous retail establishments .....	-27	-1.0	.1	.9
Finance, insurance, and real estate .....	37	.5	-.3	1.2
Finance .....	9	.3	-.7	1.3
Depository institutions .....	-15	-.7	-1.1	1.4
Commercial banks .....	-24	-1.7	-.6	.9
Savings institutions <sup>3</sup> .....	8	3.1	-3.6	6.1
Nondepository institutions .....	20	3.6	1.2	2.5
Mortgage bankers and brokers .....	6	2.4	1.1	5.0
Security and commodity brokers .....	4	.7	.1	1.2
Holding and other investment offices .....	1	.5	-3.7	5.0
Insurance .....	27	1.2	.4	1.3
Insurance carriers .....	23	1.5	.3	1.6
Insurance agents, brokers, and service .....	4	.6	.5	1.2
Real estate .....	1	.1	-.4	1.5
Services <sup>4</sup> .....	338	1.0	.2	.6
Agricultural services .....	8	1.4	2.0	2.2
Hotels and other lodging places .....	-4	-.2	.5	1.3
Personal services .....	-13	-1.0	.5	1.5
Business services .....	218	2.8	.7	2.0
Services to buildings .....	31	3.4	1.3	1.7
Personnel supply services .....	118	4.2	1.7	3.8
Help supply services <sup>3</sup> .....	130	5.2	2.0	3.1
Computer and data processing services .....	64	4.7	(?)	3.3
Auto repair, services, and parking .....	-12	-1.1	-1.2	1.5
Miscellaneous repair services .....	-9	-2.4	-.8	4.8
Motion pictures .....	7	1.3	-1.8	4.0
Amusement and recreation services .....	33	2.3	.8	2.8
Health services .....	29	.3	-.7	.8
Offices and clinics of medical doctors .....	-1	-.1	-.9	1.6
Nursing and personal care facilities .....	-5	-.3	-.6	.8
Hospitals .....	-6	-.2	-.8	.8
Home health care services <sup>3</sup> .....	29	4.1	1.5	2.8
Legal services .....	-8	-.9	-.5	1.2
Educational services .....	31	1.4	1.2	2.8
Social services .....	31	1.2	-.3	1.6
Child day care services .....	-15	-2.6	-2.8	4.8
Residential care .....	16	2.3	.1	1.6
Museums and botanical and zoological gardens .....	3	3.6	1.9	2.5
Membership organizations .....	53	2.4	2.6	3.3
Engineering and management services <sup>3</sup> .....	-7	-.2	.1	1.4
Engineering and architectural services .....	-9	-1.1	-.8	1.3
Management and public relations <sup>3</sup> .....	-12	-1.3	.9	3.3
Services, nec .....	0	0	.3	.7
Government .....	-87	-.4	(?)	.2
Federal .....	0	0	0	0
Federal, except Postal Service .....	0	0	0	0
State .....	-56	-1.2	.2	.6
Education .....	-41	-2.0	.3	1.2
Other State government .....	-15	-.6	.2	.5
Local .....	-31	-.2	(?)	.3
Education .....	1	0	-.1	.3
Other local government .....	-33	-.6	0	.4

<sup>1</sup> Data relate to the 1988-97 benchmarks, as originally published, unless otherwise noted.

<sup>2</sup> Less than 0.05 percent.

<sup>3</sup> Data relate to 1989-97.

<sup>4</sup> Includes other industries, not shown separately.

**Table 2-E. Relative standard errors<sup>1</sup> for estimates of employment, hours, and earnings**

(In percent)

Size of employment estimate	Employment	Average weekly hours	Average hourly earnings
50,000 .....	1.4	1.9	3.2
100,000 .....	1.1	1.5	2.6
200,000 .....	.8	1.2	2.2
500,000 .....	.6	.9	1.7
1,000,000 .....	.4	.7	1.3
2,000,000 .....	.3	.6	1.1

<sup>1</sup> Relative errors were estimated with sample data from March 1994-March 1995.

**Table 2-F. Relative standard errors<sup>1</sup> for estimates of employment, hours, and earnings by industry**

(In percent)

Industry	Employment	Average weekly hours	Average hourly earnings
Total private .....	0.1	0.1	0.2
Mining .....	.8	.6	1.1
Construction .....	.4	.1	.3
Manufacturing .....	.1	.1	.4
Durable goods .....	.1	.1	.5
Nondurable goods .....	.1	.1	.5
Transportation and public utilities .....	.3	.5	1.0
Wholesale trade .....	.2	.2	.4
Retail trade .....	.1	.1	.3
Finance, insurance, and real estate .....	.2	.2	.7
Services .....	.2	.2	.4

<sup>1</sup> Relative errors were estimated with sample data from March 1994-March 1995.

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 <sup>1</sup>	Mean percent revision	
		Actual	Absolute
Total .....	57,900	0	0
Total private .....	49,000	0	0
Goods-producing .....	13,200	0	0
Mining .....	1,800	0	.2
Metal mining .....	300	-.1	.4
Coal mining .....	800	.1	.6
Oil and gas extraction .....	1,800	0	.4
Nonmetallic minerals, except fuels .....	300	0	.2
Construction .....	8,000	.1	.1
General building contractors .....	4,000	.1	.3
Heavy construction, except building .....	3,500	0	.4
Special trade contractors .....	4,800	.1	.1
Manufacturing .....	9,000	0	0
Durable goods .....	6,400	0	0
Lumber and wood products .....	1,300	.1	.1
Furniture and fixtures .....	1,200	0	.2
Stone, clay, and glass products .....	1,100	0	.2
Primary metal industries .....	1,700	0	.2
Blast furnaces and basic steel products .....	1,400	0	.4
Fabricated metal products .....	2,000	0	.1
Industrial machinery and equipment .....	2,500	0	.1
Computer and office equipment .....	1,500	.2	.3
Electronic and other electrical equipment .....	2,400	0	.1
Electronic components and accessories .....	1,400	0	.2
Transportation equipment .....	4,200	0	.2
Motor vehicles and equipment .....	3,700	.1	.3
Aircraft and parts .....	1,600	0	.2
Instruments and related products .....	1,600	0	.1
Miscellaneous manufacturing .....	1,100	.1	.2
Nondurable goods .....	4,700	0	.1
Food and kindred products .....	2,800	-.1	.1
Tobacco products .....	500	.5	.9
Textile mill products .....	1,100	0	.1
Apparel and other textile products .....	2,500	.1	.2
Paper and allied products .....	1,200	0	.1
Printing and publishing .....	1,600	.1	.1
Chemicals and allied products .....	1,700	-.1	.1
Petroleum and coal products .....	900	0	.4
Rubber and miscellaneous plastics products .....	1,500	0	.1
Leather and leather products .....	600	0	.4
Service-producing .....	53,500	0	0
Transportation and public utilities .....	10,000	-.1	.1
Transportation .....	9,000	-.1	.2
Railroad transportation .....	2,200	-.1	.7
Local and interurban passenger transit .....	3,700	-.2	.6
Trucking and warehousing .....	5,800	-.1	.2
Water transportation .....	1,500	-.3	.8
Transportation by air .....	4,700	-.1	.4
Pipelines, except natural gas .....	200	-.3	.7
Transportation services .....	1,200	-.1	.2
Communications and public utilities .....	4,300	0	.1
Communications .....	3,800	.1	.2
Electric, gas, and sanitary services .....	1,700	0	.1
Wholesale trade .....	7,300	.1	.1
Durable goods .....	4,200	.1	.1
Nondurable goods .....	4,800	.1	.1

See footnotes at end of table.

Table 2-G. Errors of preliminary employment estimates—Continued

Industry	Root-mean-square error of monthly level <sup>1</sup>	Mean percent revision	
		Actual	Absolute
Retail trade .....	33,100	.1	.1
Building materials and garden supplies .....	2,500	0	.2
General merchandise stores .....	18,700	.1	.5
Department stores .....	17,300	.1	.5
Food stores .....	6,100	.1	.1
Automotive dealers and service stations .....	2,900	-.1	.1
New and used car dealers .....	1,200	-.1	.1
Apparel and accessory stores .....	5,900	.2	.4
Furniture and home furnishings stores .....	3,500	.1	.3
Eating and drinking places .....	11,700	.1	.1
Miscellaneous retail establishments .....	8,600	.2	.3
Finance, insurance, and real estate .....	5,900	0	.1
Finance .....	3,400	0	.1
Depository institutions .....	2,400	0	.1
Commercial banks .....	1,800	0	.1
Savings institutions .....	1,200	-.1	.3
Nondepository institutions .....	1,400	.1	.2
Mortgage bankers and brokers .....	1,000	0	.3
Security and commodity brokers .....	1,000	0	.2
Holding and other investment offices .....	1,600	0	.5
Insurance .....	2,800	0	.1
Insurance carriers .....	2,600	0	.1
Insurance agents, brokers, and service .....	1,100	.1	.1
Real estate .....	2,600	0	.2
Services <sup>2</sup> .....	29,600	0	.1
Agricultural services .....	2,800	.1	.4
Hotels and other lodging places .....	6,200	.1	.3
Personal services .....	7,900	-.1	.4
Business services .....	12,600	.1	.1
Services to buildings .....	2,600	0	.2
Personnel supply services .....	11,100	.1	.3
Help supply services .....	10,700	.1	.3
Computer and data processing services .....	2,500	.1	.2
Auto repair, services, and parking .....	2,100	0	.2
Miscellaneous repair services .....	1,100	0	.2
Motion pictures .....	5,700	0	.7
Amusement and recreation services .....	9,000	.2	.5
Health services .....	5,300	0	0
Offices and clinics of medical doctors .....	2,600	0	.1
Nursing and personal care facilities .....	1,700	0	.1
Hospitals .....	3,100	0	.1
Home health care services .....	2,000	.1	.3
Legal services .....	1,400	0	.1
Educational services .....	13,200	.1	.6
Social services .....	8,300	.1	.3
Child day care services .....	4,600	.2	.6
Residential care .....	1,400	0	.2
Museums and botanical and zoological gardens .....	700	.2	.6
Membership organizations .....	3,400	0	.1
Engineering and management services .....	4,900	0	.1
Engineering and architectural services .....	2,300	0	.2
Management and public relations .....	3,300	.1	.3
Services, nec .....	400	0	.7
Government .....	19,700	0	.1
Federal .....	9,400	0	.2
Federal, except Postal Service .....	8,500	0	.3
State .....	11,200	0	.2
Education .....	10,100	0	.4
Other State government .....	5,200	0	.2
Local .....	16,200	0	.1
Education .....	13,600	.1	.1
Other local government .....	11,000	0	.1

<sup>1</sup> The root-mean-square error is the square root of the mean squared error. The mean squared error is the square of the difference between the final and preliminary estimates averaged across a series of monthly observations.

<sup>2</sup> Includes other industries, not shown separately.

NOTE: Errors are based on differences from January 1993 through December 1997.

# Region, State, and Area Labor Force Data ("C" tables)

## FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which derive from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Job Training Partnership Act.

Annual average data for the States and 334 areas shown in table C-3 are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected demographic, social, and economic characteristics are published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

Labor force estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

## ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 6,500 areas, including nearly 2,400 LMA's, counties, and cities with a population of 25,000 or more. Regional aggregations are derived by summing the State estimates. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. At the sub-LMA (county and city) level, estimates are prepared using disaggregation techniques based on decennial and annual population estimates and current unemployment insurance data. A more detailed description of the estimation procedure is contained in the BLS document, *Manual for Developing Local Area Unemployment Statistics*.

### Estimates for States

*Current monthly estimates.* Effective January 1996, civilian labor force and unemployment estimates for all States and the District of Columbia are produced using models based on a "signal-plus-noise" approach. The model of the

signal is a time series model of the true labor force which consists of three components: A variable coefficient regression, a flexible trend, and a flexible seasonal component. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the Current Population Survey (CPS), the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. The noise component of the models explicitly accounts for auto correlation in the CPS sampling error and changes in the average magnitude of the error. In addition, the models can identify and remove the effects of outliers in the historical CPS series. While all the State models have important components in common, they differ somewhat from one another to better reflect individual State characteristics.

Two models—one for the employment-to-population ratio and one for the unemployment rate—are used for each State. The employment-to-population ratio, rather than the employment level, and the unemployment rate, rather than the unemployment level, are estimated primarily because these ratios are usually more meaningful for economic analysis.

The employment-to-population ratio models use the relationship between the State's monthly employment from the CES and the CPS. The models also include trend and seasonal components to account for movements in the CPS not captured by the CES series. The seasonal component accounts for the seasonality in the CPS not explained by the CES, while the trend component adjusts for long-run systematic differences between the two series.

The unemployment rate models use the relationship between the State's monthly unemployment insurance (UI) claims data and the CPS unemployment rate, along with trend and seasonal components.

In both the employment-to-population ratio and unemployment rate models, an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The regression portion of the model includes a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, levels are calculated for employment, unemployment, and labor force.

*Benchmark correction procedures.* Once each year, monthly estimates for all States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a pro-

cedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

### **Estimates for sub-State areas**

Monthly labor force, employment, and unemployment estimates for two large sub-State areas —New York City and the Los Angeles-Long Beach metropolitan area—are obtained using the same modeling approach as for states. Estimates for the nearly 2,400 remaining LMA's, are prepared through indirect estimation techniques, described below.

*Preliminary estimate—employment.* The total civilian employment estimates are based largely on CES data. These “place-of-work” estimates must be adjusted to refer to place of residence as used in the CPS. Factors for adjusting from place of work to place of residence have been developed on the basis of employment relationships at the time of the 1990 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agricultural employees, nonagricultural self-employed and unpaid family workers, and private household workers.

*Preliminary estimate—unemployment.* In the current month, the estimate of unemployment is an aggregate of the estimates for each of two categories: (1) Persons who were previously employed in industries covered by State UI laws; and (2) those who were entering the civilian labor force for the first time or reentering after a period of separation.

*Sub-State adjustment for additivity.* Estimates of employment and unemployment are prepared for the State and all LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment is applied to all sub-State preliminary LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment. For California and New York, the proportional adjustment is applied to all LMA's other than the two modeled areas, to ensure that the LMA estimates sum to an independent model-based estimate for the balance of State.

*Benchmark correction.* At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in UI claims counts, and updated historical relationships. The updated estimates are then re-adjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

# Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, 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

Beginning 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 conversion to X-12 ARIMA allows BLS to refine its seasonal adjustment procedures to control for survey interval variations, sometime referred to as the 4-vs.-5 week effect. While the CES survey is referenced to a consistent concept, the pay period including the 12th day of the month, inconsistencies arise because there are variations of 4 or 5 weeks between the week of the 12th in any given pair of months. In highly seasonal months and industries, this variation can be an important determinant of the magnitude of seasonal hires or layoffs that have occurred at the time the survey is taken, thereby complicating seasonal adjustment. The interval effect adjustment is accomplished through the REGARIMA (regression with auto-correlated errors) option in the X-12 software. This process combines standard regression analysis, which measures correlations between two or more variables, with ARIMA modeling, which describes



and predicts the behavior of a data series based on its own past history. In this application, the correlations of interest are those between employment levels in individual calendar months and the length of the survey intervals for those months. The REGARIMA models estimate and remove the variation in employment levels attributable to 11 separate survey intervals, one specified for each month, except March. March is excluded because there are always 4 weeks between the February and March surveys.

Effective with the release of the March 1997 benchmarks, seasonally adjusted series for employment, hours, indexes of aggregate hours, and earnings of production or nonsupervisory workers from 1989 forward incorporate refinements to the seasonal adjustment process to correct for distortions related to the method of accounting for the varying length of payroll periods across months—the calendar effect.

REGARIMA modeling also is used to identify, measure, and remove the calendar effect for the publication level seasonally adjusted hours and earnings series.

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 (usually the most recent 5 years) are made once a year, coincident with benchmark revisions. All series are seasonally adjusted using multiplicative models in X-12. 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, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, 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. 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.

Revised seasonally adjusted national establishment-based series based on the experience through March 1998, new seasonal adjustment factors for March-October 1998, and a description of the current seasonal adjustment procedure appear in the June 1998 issue of *Employment and Earnings*. Revised factors for the September 1998-April 1999 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.

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	I MAINE	Department of Labor, Division of Economic Analysis and Research, 20 Union St., Augusta 04330
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	I MASSACHUSETTS	Department of Employment and Training, Government Center, Charles F. Hurley Bldg., Boston 02114
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	VIII MONTANA	Department of Labor and Industry, P.O. Box 1728, Helena 59624
	VII NEBRASKA	Department of Labor, P.O. Box 94600, Lincoln 68509-4600
	IX NEVADA	Employment Security Department, 500 East 3rd St., Carson City 89713
	I NEW HAMPSHIRE	Department of Employment Security, 32 South Main St., Concord 03301
	II NEW JERSEY	Department of Labor, Division of Planning and Research, P.O. Box 2765, Trenton 08625
	VI NEW MEXICO	Employment Security Commission, 401 Broadway, TIWA Bldg., Albuquerque 87103
	II NEW YORK	Department of Labor, Division of Research and Statistics, State Campus, Room 400, Bldg. 12, Albany 12240-0020
	IV NORTH CAROLINA	Employment Security Commission, Labor Market Information Division, P.O. Box 25903, Raleigh 27611
	VIII NORTH DAKOTA	Job Service, P.O. Box 1537, Bismarck 58502
	V OHIO	Bureau of Employment Services, Labor Market Information Division, 1160 Dublin Rd., Columbus 43215
	VI OKLAHOMA	Employment Security Commission, Research and Planning Division, 2401 North Lincoln, Oklahoma City 73105
	X OREGON	Employment Division, 875 Union St., NE., Salem 97311
	III PENNSYLVANIA	Bureau of Research and Statistics, 300 Capitol Associates Building, Harrisburg, PA 17120-0034
	II PUERTO RICO	Department of Labor and Human Resources, Bureau of Labor Statistics, 17th Fl., 505 Munoz Rivera Avenue, Hato Rey 00918 (CES), Bureau of Employment Security, Research and Analysis Section, 15th Fl., 505 Munoz Rivera Avenue, Hato Rey 00918 (LAUS)
	I RHODE ISLAND	Department of Employment Security, 24 Mason St., Providence 02903
	IV SOUTH CAROLINA	Employment Security Commission, Labor Market Information Division, P.O. Box 995, Columbia 29202
	VIII SOUTH DAKOTA	Department of Labor, Labor Market Information Center, P.O. Box 4730, Aberdeen 57401
	IV TENNESSEE	Department of Employment Security, Research and Statistics Division, 519 Cordell Hull Office Bldg., Nashville 37219
	VI TEXAS	Employment Commission, Room 208-T, 1117 Trinity St., Austin 78778
	VIII UTAH	Department of Employment Security, Labor Market Information Services, P.O. Box 11249, Salt Lake City 84147
	I VERMONT	Department of Employment and Training, Office of Policy and Public Information, P.O. Box 488, Montpelier 05602
	III VIRGINIA	Employment Commission, Economic Information Services, P.O. Box 1358, Richmond 23211
	II VIRGIN ISLANDS	Department of Labor, Bureau of Labor Statistics, 53-A, 54-A&B Kronprindsens Gade Charlotte Amalie, St. Thomas 00801-3359 (CES)
	X WASHINGTON	Employment Security Department, Labor Market and Economic Analysis Branch, 605 Woodview Dr., Olympia 98503
	III WEST VIRGINIA	Department of Employment Security, Division of Labor and Economic Security, 112 California Avenue, Charleston 25305
	V WISCONSIN	Department of Industry, Labor, and Human Relations, Labor Market Information Bureau, 201 East Washington Avenue, Madison 53707
	VIII WYOMING	Employment Security Commission, Research and Analysis Section, P.O. Box 2760, Casper 82602