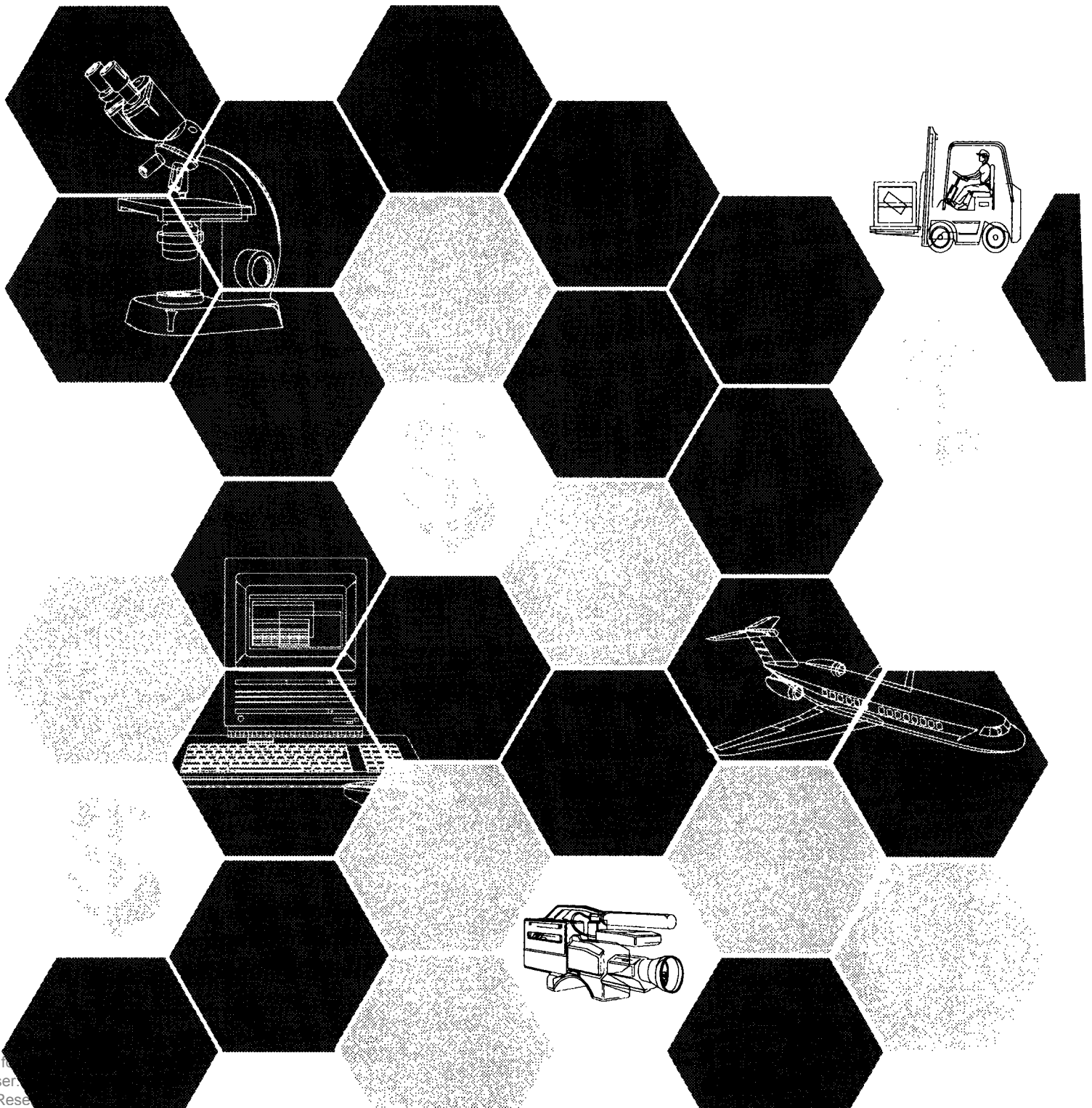


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# EMPLOYMENT AND EARNINGS

U.S. Department of Labor  
Bureau of Labor Statistics  
November 1997





**U.S. DEPARTMENT OF LABOR**  
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BUREAU OF LABOR STATISTICS  
Katharine G. Abraham, *Commissioner*

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**November 1997**  
**Vol. 44 No.11**

**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
Revised historical national data	Internet <sup>1</sup>
State and area annual revisions	March
State and area annual averages	May
Area definitions	May

**State and area labor force data**

Annual revisions	March
Annual averages	May

<sup>1</sup> They can be accessed from <http://stats.bls.gov/cgi-bin/dsrv?ec> or through the Current Employment Statistics homepage at <http://stats.bls.gov/ceshome.htm>.

# Employment and Earnings

Editors: Gloria Peterson Green, Eugene H. Becker

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# Employment and Unemployment Developments, October 1997

Nonfarm payroll employment rose, and the unemployment rate declined to 4.7 percent in October. The number of payroll jobs increased by 284,000; although gains occurred in many industries, there was a particularly large increase in manufacturing.

## Unemployment

Both the number of unemployed persons and the unemployment rate fell in October. The number of persons who were unemployed, at 6.5 million, was 285,000 below September's level, and the unemployment rate declined by 0.2 percentage point to 4.7 percent. From April through September, the rate had ranged from 4.8 to 5.0 percent. In October, the unemployment rate for adult women declined from 4.4 to 4.0 percent. The rates for adult men (4.1 percent), teenagers (15.3 percent), whites (4.1 percent), blacks (9.5 percent), and Hispanics (8.0 percent) showed little or no movement over the month. (See tables A-3 and A-4.)

## Total employment and the labor force

Total employment was about unchanged in October at 129.9 million. At 63.7 percent, the proportion of the population with jobs (the employment-population ratio) has shown little movement since March. Over the past year, total employment has increased by 2.0 million (after adjusting for the effect of the revised population controls introduced into the survey in January). (See table A-3.)

About 8.1 million persons (not seasonally adjusted) held more than one job in October. These multiple jobholders comprised 6.2 percent of the total employed. (See table A-35.)

Both the civilian labor force, 136.4 million (seasonally adjusted), and the labor force participation rate, 66.9 percent, were about unchanged from September.

## Persons not in the labor force

About 1.3 million persons (not seasonally adjusted) were marginally attached to the labor force in October. 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 did not search for work in the 4 weeks preceding the survey.

The number of discouraged workers—a subset of the marginally attached who were not currently looking for jobs specifically because they believed no jobs were available for them or there were none for which they would qualify—was

302,000 in October, little changed from a year earlier. (See table A-34.)

## Industry payroll employment

Nonfarm payroll employment rose by 284,000 in October to 123.0 million, after seasonal adjustment. Since December 1996, payroll employment has increased by about 239,000 a month, on average. Job gains were widespread in October and were especially large in manufacturing. (See table B-3.)

Manufacturing employment increased by 54,000 in October. Since the recent trough in September 1996, factory employment has risen by 170,000. In October, half of the increase occurred in just two industries, industrial machinery and transportation equipment. An addition of 13,000 employees in industrial machinery was the second large gain in 3 months. The 16,000 increase in transportation equipment reversed the prior month's decline. Growth continued in the electronic components industry, which has added 36,000 jobs so far this year. Employment gains also occurred over the month in food products (6,000), fabricated metals (4,000), furniture and fixtures (3,000), printing and publishing (3,000), and instruments (3,000).

Construction added 20,000 jobs in October, its largest increase since May. Thus far in 1997, construction employment has increased by only 136,000, compared with 235,000 during the same period in 1996.

Within the service-producing sector, employment in the services industry rose by 100,000 in October, in line with the monthly average for the past year. Strong growth continued in computer services and engineering and management services. Together, these two relatively small industries have accounted for 1 in 9 payroll jobs added in the past year. Employment in health services also continued to grow in October, with a particularly large gain in offices and clinics of medical doctors (12,000).

Employment in the transportation industry increased by 21,000 in October, with the largest gain occurring in air transportation (9,000). Communications added 10,000 jobs, primarily in telephone communications, where employment has grown by 35,000 over the past 12 months. Employment in finance rose by 18,000 in October, with gains in all the component industries, except savings institutions. Security and commodity brokerages added 5,000 jobs over the month. The strong growth trend in this industry has accelerated in recent months, as 19,000 jobs have been added since June.

Wholesale trade employment rose by 22,000 in October. Retail trade gained 37,000 jobs, about in line with the pace of growth for the year. Retail employment growth so far in 1997 has lagged behind that for 1996.

Government employment was virtually unchanged over the month, the result of offsetting movements within State and local governments and a continuation of the long-term downward trend in Federal employment.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls was unchanged in October at 34.5 hours, seasonally adjusted. The manufacturing workweek increased by 0.2 hour to 42.0 hours, and factory overtime edged up by 0.1 hour to 4.8 hours. (See table B-8.)

The index of aggregate weekly hours of private production or nonsupervisory workers on nonfarm payrolls increased by 0.2 percent to 140.9 (1982=100), seasonally adjusted. The manufacturing index rose by 0.8 percent to 109.0. (See table B-9.)

### Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers on nonfarm payrolls were up 6 cents in October to \$12.41, seasonally adjusted. This follows increases totaling 11 cents in the prior 2 months. Average weekly earnings rose by 0.5 percent over the month to \$428.15. Over the past year, average hourly earnings have risen by 4.2 percent and average weekly earnings by 4.5 percent. (See table B-11.)

### Changes in Establishment-based and Household Data Series

Following usual practice, the 6-month updates to seasonal adjustment factors for the establishment survey data will be introduced with next month's release of November data. These factors will be used for the September 1997 through April 1998 estimates and will be published in the December 1997 issue of *Employment and Earnings*. As a service to users, these factors will be available on November 28, 1 week prior to the release of November estimates, on the Internet (<http://stats.bls.gov/ceshome.htm>) or by calling (202) 606-6521.

Effective with the release of data for December 1997 in January 1998, improvements will be introduced into the composite estimation procedures used in the household survey. These changes will simplify processing of the monthly labor force data at BLS and will allow users of the survey microdata to replicate more easily the official estimates released by BLS. In addition, there will be a slight decrease in the variance of some major estimates, particularly employment levels and the over-the-month change in those levels. The new procedures are expected to produce somewhat lower estimates of the civilian labor force and employment.

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
Reference month	Release date	Reference month	Release date
November	December 5	February	March 6
December	January 9	March	April 3
January	February 6	April	May 8



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

(Numbers in thousands)

Category	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>Labor force status</b>													
Civilian noninstitutional population .....	201,273	201,463	201,636	202,285	202,389	202,513	202,674	202,832	203,000	203,166	203,364	203,570	203,767
Civilian labor force .....	134,636	134,831	135,022	135,848	135,634	136,319	136,098	136,173	136,200	136,290	136,480	136,467	136,361
Percent of population .....	66.9	66.9	67.0	67.2	67.0	67.3	67.2	67.1	67.1	67.1	67.1	67.0	66.9
Employed .....	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804	129,715	129,894
Percent of population .....	63.4	63.4	63.4	63.6	63.5	63.6	63.8	63.9	63.7	63.8	63.8	63.7	63.7
Unemployed .....	7,019	7,187	7,167	7,268	7,205	7,144	6,714	6,534	6,836	6,583	6,677	6,752	6,467
Not in labor force .....	66,637	66,632	66,614	66,437	66,754	66,194	66,577	66,659	66,600	66,876	66,884	67,102	67,407
<b>Unemployment rates</b>													
All workers .....	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9	4.9	4.7
Men, 20 years and over .....	4.4	4.4	4.4	4.6	4.4	4.4	4.2	3.8	4.2	4.0	4.1	4.1	4.1
Women, 20 years and over .....	4.7	4.8	4.9	4.6	4.7	4.7	4.4	4.5	4.4	4.2	4.4	4.4	4.0
Both sexes, 16 to 19 years .....	16.3	16.6	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4	16.7	15.3
White .....	4.5	4.6	4.6	4.6	4.5	4.5	4.2	4.0	4.2	4.2	4.2	4.3	4.1
Black .....	10.7	10.6	10.5	10.8	11.3	10.7	9.8	10.3	10.4	9.4	9.3	9.6	9.5
Hispanic origin .....	8.2	8.3	7.7	8.3	8.1	8.6	8.1	7.4	7.6	7.9	7.2	7.6	8.0

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

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

(Numbers in thousands)

Industry	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Employment</b>													
Total .....	120,248	120,450	120,659	120,909	121,162	121,344	121,671	121,834	122,056	122,440	122,492	122,761	123,045
Total private .....	100,759	100,956	101,145	101,380	101,615	101,799	102,092	102,269	102,417	102,721	102,688	103,018	103,300
Goods-producing industries .....	24,479	24,508	24,540	24,581	24,653	24,670	24,667	24,702	24,714	24,713	24,765	24,756	24,827
Mining .....	570	571	571	574	574	572	573	576	574	574	573	576	573
Construction .....	5,467	5,495	5,521	5,542	5,604	5,609	5,599	5,628	5,622	5,625	5,637	5,637	5,657
Manufacturing .....	18,442	18,442	18,448	18,465	18,475	18,489	18,495	18,498	18,518	18,514	18,555	18,543	18,597
Service-producing industries .....	95,769	95,942	96,119	96,328	96,509	96,674	97,004	97,132	97,342	97,727	97,727	98,005	98,218
Transportation and public utilities .....	6,293	6,303	6,288	6,351	6,376	6,405	6,421	6,431	6,434	6,443	6,289	6,459	6,488
Wholesale trade .....	8,538	8,549	8,559	8,570	8,583	8,611	8,622	8,630	8,634	8,684	8,675	8,688	8,710
Retail trade .....	21,791	21,847	21,912	21,917	21,922	21,945	22,029	22,026	22,079	22,159	22,189	22,208	22,245
Finance, insurance, and real estate .....	6,941	6,949	6,962	6,971	6,980	6,992	7,019	7,029	7,034	7,058	7,068	7,079	7,102
Services .....	34,717	34,800	34,884	34,990	35,091	35,176	35,334	35,451	35,522	35,684	35,702	35,828	35,928
Government .....	19,489	19,494	19,514	19,529	19,547	19,545	19,579	19,565	19,639	19,719	19,804	19,743	19,745
<b>Over-the-month change</b>													
Total .....	229	202	209	250	253	182	327	163	222	384	52	269	284
Total private .....	253	197	189	235	235	184	293	177	148	304	-33	330	282
Goods-producing industries .....	40	29	32	41	72	17	-3	35	12	-1	52	-9	71
Mining .....	-1	1	0	3	0	-2	1	3	-2	0	-1	3	-3
Construction .....	26	28	26	21	62	5	-10	29	-6	3	12	0	20
Manufacturing .....	15	0	6	17	10	14	6	3	20	-4	41	-12	54
Service-producing industries .....	189	173	177	209	181	165	330	128	210	385	0	278	213
Transportation and public utilities .....	3	10	-15	63	25	29	16	10	3	9	-154	170	29
Wholesale trade .....	25	11	10	11	23	18	11	8	4	30	11	13	22
Retail trade .....	73	56	65	5	5	23	84	-3	53	80	30	19	37
Finance, insurance, and real estate .....	16	8	13	9	9	12	27	10	5	24	10	11	23
Services .....	96	83	84	106	101	85	158	117	71	162	18	126	100
Government .....	-24	5	20	15	18	-2	34	-14	74	80	85	-61	2
<b>Hours of work<sup>1</sup></b>													
Total private .....	34.4	34.5	34.7	34.4	34.8	34.8	34.5	34.5	34.6	34.4	34.6	34.5	34.5
Manufacturing .....	41.7	41.7	42.0	41.8	41.9	42.1	42.1	42.0	41.8	41.8	41.8	41.8	42.0
Overtime .....	4.5	4.6	4.7	4.7	4.7	4.9	4.9	4.8	4.6	4.7	4.7	4.7	4.8
<b>Indexes of aggregate weekly hours (1982=100)<sup>1</sup></b>													
Total private .....	137.2	137.9	139.1	138.2	140.0	140.2	139.6	140.0	140.6	140.2	140.8	140.6	140.9
Manufacturing .....	106.9	107.2	107.8	107.4	107.9	108.3	108.5	108.3	107.8	107.8	108.1	108.1	109.0
<b>Earnings<sup>1</sup></b>													
Average hourly earnings, total private:													
Current dollars .....	\$11.91	\$11.98	\$12.03	\$12.05	\$12.10	\$12.14	\$12.14	\$12.19	\$12.23	\$12.24	\$12.31	\$12.35	\$12.41
Constant (1982) dollars <sup>2</sup> .....	7.42	7.44	7.45	7.46	7.47	7.49	7.49	7.52	7.54	7.53	7.56	7.56	N.A.
Average weekly earnings, total private .....	409.70	413.31	417.44	414.52	421.08	422.47	418.83	420.56	423.16	421.06	425.93	426.08	428.15

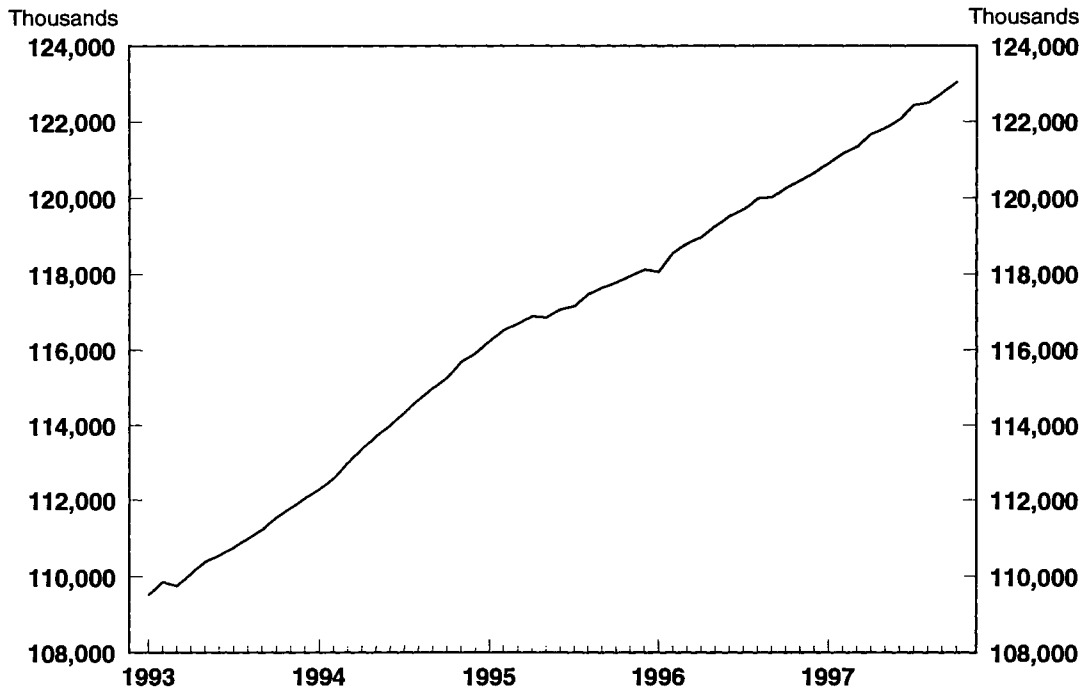
<sup>1</sup> Data relate to private production or nonsupervisory workers.

N.A. = not available.

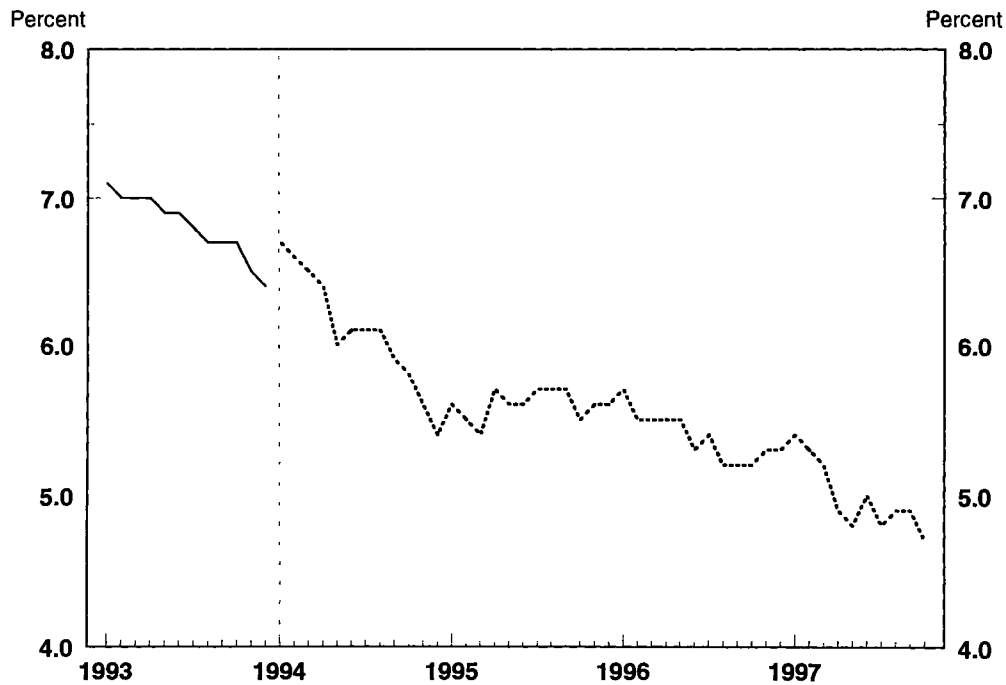
<sup>2</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<sup>P</sup> = preliminary.

**Chart 1. Nonfarm payroll employment, seasonally adjusted, 1993-97**



**Chart 2. Unemployment rate, seasonally adjusted, 1993-97**



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 used in the survey. 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, 1963 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										
1963 .....	122,416	71,833	58.7	67,762	55.4	4,687	63,076	4,070	5.7	50,583
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	58.2	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	59.8	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	3,363	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	8,828	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	131,058	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
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1996:</b>										
October .....	201,273	134,636	66.9	127,617	63.4	3,450	124,167	7,019	5.2	66,637
November .....	201,483	134,831	66.9	127,644	63.4	3,354	124,290	7,187	5.3	66,632
December .....	201,636	135,022	67.0	127,855	63.4	3,426	124,429	7,167	5.3	66,614
<b>1997:</b>										
January <sup>3</sup> .....	202,285	135,848	67.2	128,580	63.6	3,468	125,112	7,268	5.4	66,437
February .....	202,389	135,834	67.0	128,430	63.5	3,292	125,138	7,205	5.3	66,754
March .....	202,513	136,319	67.3	129,175	63.8	3,386	125,789	7,144	5.2	66,194
April .....	202,674	136,098	67.2	129,384	63.8	3,497	125,887	6,714	4.9	66,577
May .....	202,832	136,173	67.1	129,639	63.9	3,430	126,209	6,534	4.8	66,659
June .....	203,000	136,200	67.1	129,364	63.7	3,391	125,973	6,836	5.0	66,800
July .....	203,166	136,290	67.1	129,708	63.8	3,482	126,226	6,583	4.8	66,876
August .....	203,364	136,480	67.1	129,804	63.8	3,383	126,421	6,677	4.9	66,884
September .....	203,570	136,467	67.0	129,715	63.7	3,450	126,265	6,752	4.9	67,102
October .....	203,767	136,361	66.9	129,894	63.7	3,303	126,591	6,467	4.7	67,407

<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 1997, data are not strictly comparable with data

for 1996 and earlier years because of revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1997" in the February 1997 issue of this publication.

**HOUSEHOLD DATA  
HISTORICAL**

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

(Numbers in thousands)

Sex, year, and month	Civilian noninsti- tutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Number	Percent of labor force	
				Number	Percent of population	Agriculture	Nonagricultural industries			
Annual averages										
<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	78.2	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	78.4	84,315	72.5	2,513	61,802	3,525	5.2	20,923
1990 <sup>1</sup> .....	90,377	89,011	78.4	65,104	72.0	2,546	62,559	3,908	5.7	21,367
1991 .....	91,270	69,188	75.8	64,223	70.4	2,589	61,634	4,946	7.2	22,110
1992 .....	92,276	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	88,450	70.4	2,554	63,896	4,367	6.2	23,538
1995 .....	95,178	71,380	75.0	67,377	70.8	2,559	64,818	3,983	5.8	23,818
1996 .....	96,206	72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,119
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1996:</b>										
October .....	96,556	72,363	74.9	88,647	71.1	2,607	66,040	3,716	5.1	24,193
November .....	96,654	72,362	74.9	68,589	71.0	2,525	66,064	3,773	5.2	24,292
December .....	98,742	72,414	74.9	68,707	71.0	2,618	66,089	3,707	5.1	24,328
<b>1997:</b>										
January <sup>3</sup> .....	97,264	73,108	75.2	69,164	71.1	2,611	66,553	3,942	5.4	24,158
February .....	97,320	72,987	75.0	69,232	71.1	2,470	66,763	3,755	5.1	24,333
March .....	97,387	73,288	75.2	69,478	71.3	2,585	66,894	3,790	5.2	24,118
April .....	97,474	73,232	75.1	69,627	71.4	2,874	66,953	3,604	4.9	24,242
May .....	97,559	73,200	75.0	69,929	71.7	2,640	67,289	3,271	4.5	24,359
June .....	97,649	73,242	75.0	69,567	71.2	2,599	66,968	3,674	5.0	24,407
July .....	97,733	73,230	74.9	69,749	71.4	2,591	67,158	3,481	4.8	24,503
August .....	97,838	73,315	74.9	69,791	71.3	2,494	67,297	3,524	4.8	24,522
September .....	97,948	73,190	74.7	69,639	71.1	2,566	67,073	3,551	4.9	24,756
October .....	98,050	73,333	74.8	69,790	71.2	2,447	67,343	3,543	4.8	24,717
Annual averages										
<b>WOMEN</b>										
1986 <sup>1</sup> .....	94,789	52,413	55.3	48,706	51.4	852	48,054	3,707	7.1	42,376
1987 .....	95,853	53,658	56.0	50,334	52.5	666	49,688	3,324	6.2	42,195
1988 .....	96,756	54,742	56.8	51,896	53.4	676	51,020	3,048	5.6	42,014
1989 .....	97,630	56,030	57.4	53,027	54.3	687	52,341	3,003	5.4	41,801
1990 <sup>1</sup> .....	98,787	56,829	57.5	53,889	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	56,810	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	58.0	671	57,630	3,356	5.4	42,528
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1996:</b>										
October .....	104,717	62,273	59.5	58,970	58.3	843	58,127	3,303	5.3	42,444
November .....	104,809	62,469	59.8	59,055	58.3	629	58,226	3,414	5.5	42,340
December .....	104,894	62,608	59.7	59,148	58.4	808	58,340	3,460	5.5	42,286
<b>1997:</b>										
January <sup>3</sup> .....	105,022	62,742	59.7	59,418	58.8	857	58,559	3,327	5.3	42,279
February .....	105,068	62,847	59.6	59,197	58.3	822	58,375	3,450	5.5	42,421
March .....	105,127	63,051	60.0	59,697	58.8	802	58,895	3,354	5.3	42,078
April .....	105,200	62,866	59.8	59,756	58.8	822	58,934	3,109	4.9	42,335
May .....	105,274	62,973	59.8	59,710	58.7	791	58,920	3,263	5.2	42,300
June .....	105,351	62,958	59.8	59,796	58.8	792	59,005	3,162	5.0	42,393
July .....	105,433	63,060	59.8	59,958	58.9	890	59,068	3,102	4.9	42,373
August .....	105,527	63,185	59.9	60,013	58.9	889	59,124	3,152	5.0	42,361
September .....	105,623	63,277	59.9	60,076	58.9	884	59,192	3,201	5.1	42,346
October .....	105,718	63,027	59.8	60,104	58.9	858	59,248	2,923	4.6	42,690

<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 1997, data are not strictly comparable with data for 1996 and earlier years because of revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1997" in the February 1997 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	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> ..	201,273	201,463	201,636	202,285	202,389	202,513	202,674	202,832	203,000	203,166	203,364	203,570	203,767
Civilian labor force .....	134,636	134,831	135,022	135,848	135,634	136,319	136,098	136,173	136,200	136,290	136,480	136,467	136,361
Percent of population .....	66.9	66.9	67.0	67.2	67.0	67.3	67.2	67.1	67.1	67.1	67.1	67.0	66.9
Employed .....	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804	129,715	129,894
Employment-population ratio .....	63.4	63.4	63.4	63.6	63.5	63.8	63.8	63.9	63.7	63.8	63.8	63.7	63.7
Unemployed .....	7,019	7,187	7,167	7,268	7,205	7,144	6,714	6,534	6,836	6,583	6,677	6,752	6,467
Unemployment rate .....	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9	4.9	4.7
<b>Men, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	96,556	96,654	96,742	97,264	97,320	97,387	97,474	97,559	97,649	97,733	97,838	97,946	98,050
Civilian labor force .....	72,363	72,362	72,414	73,106	72,987	73,268	73,232	73,200	73,242	73,230	73,315	73,190	73,333
Percent of population .....	74.9	74.9	74.9	75.2	75.0	75.2	75.1	75.0	75.0	74.9	74.9	74.7	74.8
Employed .....	68,647	68,589	68,707	69,164	69,232	69,478	69,627	69,929	69,567	69,749	69,791	69,639	69,790
Employment-population ratio .....	71.1	71.0	71.0	71.1	71.1	71.3	71.4	71.7	71.2	71.4	71.3	71.1	71.2
Agriculture .....	2,607	2,525	2,618	2,611	2,470	2,585	2,674	2,640	2,599	2,591	2,494	2,566	2,447
Nonagricultural industries .....	66,040	66,064	66,089	66,553	68,763	66,894	66,953	67,289	66,968	67,158	67,297	67,073	67,343
Unemployed .....	3,716	3,773	3,707	3,942	3,755	3,790	3,604	3,271	3,674	3,481	3,524	3,551	3,543
Unemployment rate .....	5.1	5.2	5.1	5.4	5.1	5.2	4.9	4.5	5.0	4.8	4.8	4.9	4.8
Not in labor force .....	24,193	24,292	24,328	24,158	24,333	24,118	24,242	24,359	24,407	24,503	24,522	24,756	24,717
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	88,840	88,971	89,040	89,446	89,556	89,604	89,660	89,766	89,829	89,888	89,982	90,068	90,140
Civilian labor force .....	68,273	68,391	68,369	68,998	68,827	69,111	69,147	69,059	69,167	69,203	69,301	69,171	69,202
Percent of population .....	76.8	76.9	76.8	77.1	76.9	77.1	77.1	76.9	77.0	77.0	77.0	76.8	76.8
Employed .....	65,299	65,349	65,367	65,813	65,818	66,066	66,243	66,418	66,266	66,414	66,491	66,325	66,331
Employment-population ratio .....	73.5	73.4	73.4	73.6	73.5	73.7	73.9	74.0	73.8	73.9	73.9	73.6	73.6
Agriculture .....	2,400	2,355	2,356	2,364	2,276	2,362	2,428	2,421	2,417	2,411	2,300	2,407	2,288
Nonagricultural industries .....	62,899	62,994	63,011	63,449	63,542	63,703	63,815	63,997	63,849	64,003	64,191	63,918	64,043
Unemployed .....	2,974	3,042	3,002	3,185	3,009	3,045	2,904	2,640	2,901	2,789	2,810	2,846	2,871
Unemployment rate .....	4.4	4.4	4.4	4.6	4.4	4.4	4.2	3.8	4.2	4.0	4.1	4.1	4.1
Not in labor force .....	20,567	20,580	20,671	20,449	20,729	20,493	20,532	20,707	20,662	20,685	20,681	20,897	20,939
<b>Women, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	104,717	104,809	104,894	105,022	105,068	105,127	105,200	105,274	105,351	105,433	105,527	105,623	105,718
Civilian labor force .....	62,273	62,469	62,608	62,742	62,647	63,051	62,866	62,973	62,958	63,060	63,165	63,277	63,027
Percent of population .....	59.5	59.6	59.7	59.7	59.6	60.0	59.8	59.8	59.8	59.8	59.9	59.9	59.6
Employed .....	58,970	59,055	59,148	59,416	59,197	59,697	59,756	59,710	59,796	59,958	60,013	60,076	60,104
Employment-population ratio .....	56.3	56.3	56.4	56.8	56.3	56.8	56.8	56.7	56.8	56.9	56.9	56.9	56.9
Agriculture .....	843	829	808	857	822	802	822	791	792	890	889	884	856
Nonagricultural industries .....	58,127	58,226	58,340	58,559	58,375	58,895	58,934	58,920	59,005	59,068	59,124	59,192	59,248
Unemployed .....	3,303	3,414	3,460	3,327	3,450	3,354	3,109	3,263	3,162	3,102	3,152	3,201	2,923
Unemployment rate .....	5.3	5.5	5.5	5.3	5.5	5.3	4.9	5.2	5.0	4.9	5.0	5.1	4.6
Not in labor force .....	42,444	42,340	42,286	42,279	42,421	42,076	42,335	42,300	42,393	42,373	42,361	42,346	42,690
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> ..	97,290	97,366	97,457	97,520	97,571	97,638	97,685	97,767	97,834	97,919	98,000	98,082	98,144
Civilian labor force .....	58,432	58,574	58,728	58,894	58,743	59,130	58,974	59,130	59,207	59,186	59,408	59,483	59,320
Percent of population .....	60.1	60.2	60.3	60.4	60.2	60.6	60.4	60.5	60.5	60.4	60.6	60.6	60.4
Employed .....	55,681	55,753	55,871	56,165	55,955	56,359	56,392	56,481	56,585	56,685	56,819	56,882	56,926
Employment-population ratio .....	57.2	57.3	57.3	57.6	57.3	57.7	57.7	57.8	57.8	57.9	58.0	58.0	58.0
Agriculture .....	800	786	772	797	775	739	779	743	740	841	836	841	812
Nonagricultural industries .....	54,881	54,967	55,099	55,369	55,179	55,620	55,613	55,738	55,845	55,844	55,983	56,041	56,114
Unemployed .....	2,751	2,821	2,857	2,729	2,788	2,771	2,581	2,650	2,621	2,501	2,589	2,601	2,395
Unemployment rate .....	4.7	4.8	4.9	4.6	4.7	4.7	4.4	4.5	4.4	4.2	4.4	4.4	4.0
Not in labor force .....	38,858	38,792	38,729	38,626	38,828	38,508	38,712	38,636	38,628	38,733	38,592	38,599	38,824
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> ..	15,143	15,126	15,139	15,318	15,261	15,271	15,309	15,300	15,336	15,359	15,382	15,420	15,483
Civilian labor force .....	7,931	7,866	7,925	7,956	8,065	8,078	7,977	7,984	7,826	7,901	7,771	7,813	7,839
Percent of population .....	52.4	52.0	52.3	51.9	52.8	52.9	52.1	52.2	51.0	51.4	50.5	50.7	50.6
Employed .....	6,637	6,542	6,617	6,601	6,657	6,750	6,748	6,740	6,512	6,608	6,493	6,508	6,637
Employment-population ratio .....	43.8	43.3	43.7	43.1	43.6	44.2	44.1	44.1	42.5	43.0	42.2	42.2	42.9
Agriculture .....	250	213	298	307	240	285	290	266	234	229	246	202	203
Nonagricultural industries .....	6,387	6,329	6,319	6,294	6,417	6,465	6,458	6,474	6,279	6,379	6,247	6,306	6,434
Unemployed .....	1,294	1,324	1,308	1,354	1,408	1,328	1,229	1,244	1,314	1,293	1,278	1,305	1,201
Unemployment rate .....	18.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4	16.7	15.3
Not in labor force .....	7,212	7,260	7,214	7,362	7,196	7,193	7,333	7,316	7,510	7,458	7,611	7,607	7,645

<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-12 will not necessarily add to totals because of the independent seasonal

adjustment of the various series. Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> ..	168,788	168,924	169,044	169,438	169,492	169,569	169,675	169,782	169,897	170,010	170,148	170,290	170,427
Civilian labor force .....	113,625	113,816	113,991	114,377	114,333	114,736	114,618	114,630	114,691	114,627	114,649	114,694	114,718
Percent of population .....	67.3	67.4	67.4	67.5	67.5	67.7	67.6	67.5	67.5	67.4	67.4	67.4	67.3
Employed .....	108,527	108,570	108,734	109,151	109,197	109,630	109,831	110,052	109,821	109,853	109,782	109,770	109,985
Employment-population ratio .....	64.3	64.3	64.3	64.4	64.4	64.7	64.7	64.8	64.6	64.6	64.5	64.5	64.5
Unemployed .....	5,098	5,246	5,257	5,226	5,136	5,106	4,786	4,578	4,870	4,774	4,867	4,924	4,734
Unemployment rate .....	4.5	4.6	4.6	4.6	4.5	4.5	4.2	4.0	4.2	4.2	4.2	4.3	4.1
<b>Men, 20 years and over</b>													
Civilian labor force .....	58,539	58,549	58,623	59,042	58,968	59,161	59,196	59,008	59,088	59,096	59,129	59,035	59,070
Percent of population .....	77.4	77.3	77.4	77.7	77.5	77.7	77.7	77.4	77.5	77.4	77.4	77.2	77.2
Employed .....	56,294	56,276	56,356	56,653	56,692	56,923	57,057	57,112	56,981	57,030	57,018	56,901	56,919
Employment-population ratio .....	74.4	74.3	74.4	74.5	74.5	74.8	74.9	74.9	74.7	74.7	74.6	74.4	74.4
Unemployed .....	2,245	2,273	2,267	2,388	2,275	2,238	2,139	1,895	2,107	2,066	2,111	2,134	2,152
Unemployment rate .....	3.8	3.9	3.9	4.0	3.9	3.8	3.6	3.2	3.6	3.5	3.6	3.6	3.6
<b>Women, 20 years and over</b>													
Civilian labor force .....	48,380	48,558	48,886	48,831	48,619	48,832	48,662	48,874	48,924	48,756	48,927	48,997	48,961
Percent of population .....	59.6	59.8	59.9	59.8	59.8	60.0	59.8	60.0	60.1	59.8	60.0	60.0	60.0
Employed .....	46,439	46,530	46,614	48,750	48,747	46,915	46,902	47,047	47,128	47,055	47,123	47,165	47,275
Employment-population ratio .....	57.2	57.3	57.3	57.5	57.5	57.7	57.6	57.6	57.9	57.8	57.8	57.8	57.9
Unemployed .....	1,941	2,028	2,072	1,881	1,872	1,917	1,759	1,827	1,795	1,701	1,805	1,831	1,686
Unemployment rate .....	4.0	4.2	4.3	3.9	3.9	3.9	3.6	3.7	3.7	3.5	3.7	3.7	3.4
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,706	6,709	6,682	6,704	6,746	6,742	6,760	6,748	6,679	6,775	6,593	6,663	6,687
Percent of population .....	56.1	56.0	55.6	55.3	55.6	55.6	55.7	55.5	54.9	55.6	54.0	54.5	54.7
Employed .....	5,794	5,764	5,764	5,747	5,758	5,792	5,872	5,893	5,711	5,768	5,641	5,704	5,791
Employment-population ratio .....	48.5	48.1	48.0	47.4	47.5	47.7	48.4	48.5	46.9	47.3	46.2	46.7	47.3
Unemployed .....	912	945	918	957	988	951	888	855	968	1,007	951	959	896
Unemployment rate .....	13.6	14.1	13.7	14.3	14.6	14.1	13.1	12.7	14.5	14.9	14.4	14.4	13.4
Men .....	15.4	15.5	14.8	14.9	14.6	15.0	14.3	12.7	16.3	15.4	15.5	14.6	14.6
Women .....	11.6	12.6	12.6	13.6	14.7	13.1	11.9	12.7	12.6	14.3	13.2	14.1	12.0
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> ..	23,728	23,762	23,794	23,847	23,872	23,895	23,923	23,950	23,978	24,006	24,043	24,081	24,117
Civilian labor force .....	15,276	15,290	15,306	15,372	15,408	15,439	15,365	15,434	15,398	15,510	15,804	15,746	15,514
Percent of population .....	64.4	64.3	64.3	64.5	64.5	64.6	64.2	64.4	64.2	64.6	65.7	65.4	64.3
Employed .....	13,647	13,673	13,693	13,709	13,672	13,784	13,863	13,837	13,793	14,055	14,341	14,236	14,045
Employment-population ratio .....	57.5	57.5	57.5	57.5	57.3	57.7	57.9	57.8	57.5	58.5	59.6	59.1	58.2
Unemployed .....	1,629	1,617	1,613	1,663	1,736	1,655	1,503	1,597	1,605	1,455	1,463	1,510	1,469
Unemployment rate .....	10.7	10.6	10.5	10.8	11.3	10.7	9.8	10.3	10.4	9.4	9.3	9.6	9.5
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,838	6,699	6,833	6,829	6,765	6,803	6,805	6,831	6,926	6,957	7,072	7,006	6,940
Percent of population .....	72.4	72.7	72.0	71.8	71.0	71.6	71.4	71.5	72.4	72.6	73.7	72.9	72.2
Employed .....	6,199	6,264	6,235	6,198	6,159	6,173	6,234	6,255	6,296	6,386	6,541	6,459	6,361
Employment-population ratio .....	65.6	66.0	65.7	65.2	64.7	65.0	65.4	65.5	65.8	66.6	68.1	67.2	66.2
Unemployed .....	639	635	598	632	605	629	571	575	630	572	532	548	579
Unemployment rate .....	9.3	9.2	8.8	9.2	9.0	9.3	8.4	8.4	9.1	8.2	7.5	7.8	8.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	7,487	7,499	7,544	7,574	7,636	7,641	7,841	7,693	7,615	7,689	7,603	7,618	7,647
Percent of population .....	63.0	63.0	63.3	63.4	63.9	63.9	63.8	64.1	63.5	64.0	64.8	64.8	63.3
Employed .....	6,822	6,833	6,851	6,880	6,851	6,934	6,997	6,974	6,921	7,053	7,146	7,161	7,020
Employment-population ratio .....	57.4	57.4	57.5	57.6	57.3	57.9	58.4	58.1	57.7	58.7	59.4	59.4	58.1
Unemployed .....	685	666	693	694	785	706	644	719	694	636	658	657	627
Unemployment rate .....	8.9	8.9	9.2	9.2	10.3	9.2	8.4	9.4	9.1	8.3	8.4	8.4	8.2

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	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	951	892	929	969	1,007	996	920	910	857	864	928	921	927
Percent of population .....	39.6	37.5	38.9	40.4	42.0	41.1	38.1	37.9	35.4	35.7	38.5	38.3	38.1
Employed .....	626	576	607	631	662	678	632	608	577	616	655	616	664
Employment-population ratio .....	26.1	24.2	25.4	26.3	27.6	27.9	26.2	25.3	23.8	25.5	27.2	25.6	27.3
Unemployed .....	325	316	322	337	346	319	287	302	281	247	273	305	263
Unemployment rate .....	34.2	35.4	34.7	34.8	34.3	32.1	31.2	33.2	32.7	28.6	29.4	33.1	28.4
Men .....	36.5	41.2	38.6	42.7	37.4	41.4	37.3	32.6	41.1	32.9	33.1	38.7	27.8
Women .....	31.9	30.0	31.2	27.5	31.3	23.7	25.3	33.8	24.5	25.1	26.2	28.4	29.0
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> ..	19,398	19,454	19,505	20,013	20,067	20,119	20,180	20,236	20,293	20,351	20,407	20,464	20,519
Civilian labor force .....	12,989	13,182	13,150	13,795	13,640	13,662	13,572	13,746	13,807	13,866	13,910	13,827	13,911
Percent of population .....	67.0	67.8	67.4	68.9	68.0	67.9	67.3	67.9	68.0	68.1	68.2	67.6	67.6
Employed .....	11,928	12,094	12,141	12,653	12,538	12,493	12,470	12,730	12,756	12,768	12,911	12,780	12,799
Employment-population ratio .....	61.5	62.2	62.2	63.2	62.5	62.1	61.8	62.9	62.9	62.7	63.3	62.5	62.4
Unemployed .....	1,061	1,088	1,009	1,142	1,102	1,169	1,102	1,016	1,051	1,098	999	1,047	1,112
Unemployment rate .....	8.2	8.3	7.7	8.3	8.1	8.6	8.1	7.4	7.6	7.9	7.2	7.6	8.0

<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 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-5. 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	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>EMPLOYED</b>													
Full-time workers .....	104,598	104,645	104,654	105,089	105,151	105,721	105,936	106,170	106,413	106,591	106,638	107,021	106,669
Men, 16 years and over .....	61,244	61,346	61,289	61,603	61,867	61,688	62,114	62,277	62,288	62,360	62,359	62,475	62,387
Men, 20 years and over .....	60,021	60,119	60,056	60,392	60,691	60,432	60,820	60,923	61,025	61,056	61,086	61,186	61,064
Women, 16 years and over .....	43,342	43,303	43,358	43,365	43,151	43,900	43,737	43,879	44,193	44,381	44,436	44,511	44,282
Women, 20 years and over .....	42,495	42,450	42,451	42,541	42,287	42,991	42,945	43,100	43,345	43,392	43,499	43,574	43,396
Both sexes, 16 to 19 years .....	2,082	2,076	2,147	2,156	2,173	2,298	2,172	2,147	2,043	2,143	2,054	2,260	2,210
Part-time workers .....	23,037	23,145	23,222	23,530	23,370	23,472	23,433	23,374	22,885	22,937	23,012	22,886	23,153
Men, 16 years and over .....	7,397	7,294	7,411	7,510	7,284	7,695	7,462	7,563	7,292	7,365	7,452	7,292	7,387
Men, 20 years and over .....	5,292	5,255	5,321	5,418	5,133	5,577	5,411	5,323	5,245	5,332	5,398	5,260	5,238
Women, 16 years and over .....	15,657	15,816	15,802	16,027	16,064	15,759	15,973	15,847	15,625	15,561	15,561	15,585	15,777
Women, 20 years and over .....	13,191	13,397	13,427	13,633	13,698	13,365	13,427	13,420	13,212	13,240	13,225	13,342	13,465
Both sexes, 16 to 19 years .....	4,554	4,493	4,474	4,479	4,540	4,531	4,595	4,631	4,428	4,365	4,388	4,284	4,450
<b>UNEMPLOYED</b>													
Looking for full-time work .....	5,664	5,800	5,754	5,809	5,706	5,736	5,329	5,274	5,515	5,309	5,311	5,353	5,188
Men, 16 years and over .....	3,216	3,240	3,170	3,238	3,088	3,140	2,948	2,791	3,186	2,928	2,987	2,986	3,000
Men, 20 years and over .....	2,761	2,816	2,762	2,871	2,780	2,782	2,642	2,453	2,680	2,571	2,562	2,563	2,585
Women, 16 years and over .....	2,489	2,587	2,608	2,495	2,526	2,537	2,378	2,508	2,382	2,335	2,377	2,409	2,231
Women, 20 years and over .....	2,218	2,305	2,313	2,199	2,219	2,269	2,112	2,176	2,124	2,103	2,140	2,107	1,966
Both sexes, 16 to 19 years .....	685	679	679	738	707	665	575	645	710	634	609	683	637
Looking for part-time work .....	1,368	1,384	1,425	1,426	1,497	1,428	1,415	1,283	1,271	1,300	1,363	1,340	1,281
Men, 16 years and over .....	552	570	548	614	588	593	654	503	531	545	585	566	578
Men, 20 years and over .....	225	227	237	277	249	269	274	185	219	212	233	255	280
Women, 16 years and over .....	818	830	902	800	918	804	753	786	766	766	748	750	687
Women, 20 years and over .....	533	513	560	523	558	477	480	497	471	431	454	457	432
Both sexes, 16 to 19 years .....	610	644	628	626	690	682	660	602	582	657	677	628	569
<b>UNEMPLOYMENT RATES<sup>1</sup></b>													
Full-time workers .....	5.1	5.3	5.2	5.2	5.1	5.1	4.8	4.7	4.9	4.7	4.7	4.8	4.6
Men, 16 years and over .....	5.0	5.0	4.9	5.0	4.8	4.8	4.5	4.3	4.9	4.5	4.6	4.6	4.6
Men, 20 years and over .....	4.4	4.5	4.4	4.5	4.4	4.4	4.2	3.9	4.2	4.0	4.0	4.0	4.1
Women, 16 years and over .....	5.4	5.6	5.7	5.4	5.5	5.5	5.2	5.4	5.1	5.0	5.1	5.1	4.8
Women, 20 years and over .....	5.0	5.2	5.2	4.9	5.0	5.1	4.7	4.8	4.7	4.6	4.7	4.6	4.3
Both sexes, 16 to 19 years .....	24.8	24.6	24.0	25.5	24.5	22.5	20.9	23.1	25.8	22.8	22.9	23.2	22.4
Part-time workers .....	5.6	5.6	5.8	5.7	6.0	5.7	5.7	5.2	5.3	5.4	5.6	5.5	5.2
Men, 16 years and over .....	6.9	7.2	6.9	7.6	7.5	7.2	8.1	6.2	6.8	6.9	7.3	7.2	7.3
Men, 20 years and over .....	4.1	4.1	4.3	4.9	4.6	4.6	4.8	3.4	4.0	3.8	4.1	4.6	5.1
Women, 16 years and over .....	5.0	5.0	5.4	4.8	5.4	4.9	4.5	4.7	4.7	4.7	4.6	4.6	4.2
Women, 20 years and over .....	3.9	3.7	4.0	3.7	3.9	3.4	3.5	3.6	3.4	3.2	3.3	3.3	3.1
Both sexes, 16 to 19 years .....	11.8	12.5	12.3	12.3	13.2	13.1	12.6	11.5	11.6	13.1	13.4	12.8	11.3

<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 1997, data reflect revised population controls used in the household survey.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-6. Employed persons by marital status, occupation, class of worker, and part-time status, seasonally adjusted**

(In thousands)

Category	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>MARITAL STATUS</b>													
Total .....	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804	129,715	129,894
Married men, spouse present .....	42,617	42,631	42,607	42,909	42,513	42,509	42,329	42,273	42,448	42,589	42,697	42,527	42,817
Married women, spouse present .....	32,537	32,509	32,631	32,826	32,578	32,699	32,473	32,445	32,519	32,866	32,933	32,843	33,021
Women who maintain families .....	7,392	7,444	7,500	7,501	7,556	7,720	7,838	7,858	7,847	7,901	7,941	7,891	7,866
<b>OCCUPATION</b>													
Managerial and professional specialty .....	36,917	37,177	37,234	37,478	37,525	37,723	37,599	37,318	37,493	37,558	37,775	37,869	37,803
Technical, sales, and administrative support .....	37,951	37,821	37,902	38,163	38,073	38,158	38,150	38,362	38,142	38,193	38,322	38,600	38,591
Service occupations .....	17,295	17,408	17,271	17,171	17,170	17,292	17,267	17,390	17,412	17,523	17,774	17,809	17,710
Precision production, craft, and repair .....	13,587	13,508	13,574	13,902	14,140	14,200	14,301	14,380	14,364	14,282	13,972	13,822	13,984
Operators, fabricators, and laborers .....	18,235	18,259	18,310	18,317	18,144	18,234	18,415	18,647	18,597	18,515	18,473	18,226	18,382
Farming, forestry, and fishing .....	3,565	3,445	3,496	3,528	3,388	3,507	3,605	3,680	3,499	3,554	3,407	3,499	3,384
<b>CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,813	1,829	1,878	1,988	1,932	1,905	1,989	1,941	1,929	1,913	1,841	1,898	1,787
Self-employed workers .....	1,560	1,464	1,475	1,448	1,353	1,414	1,424	1,444	1,404	1,492	1,487	1,527	1,463
Unpaid family workers .....	71	68	66	62	15	59	70	50	40	53	51	40	60
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	115,018	115,133	115,212	115,560	115,987	116,533	116,608	116,969	116,653	117,104	117,323	117,286	117,623
Private industries .....	96,886	96,863	96,946	97,176	97,843	98,539	98,572	99,162	98,554	98,766	99,069	99,253	99,594
Private households .....	992	956	934	1,002	882	869	922	967	870	910	946	864	865
Other industries .....	95,894	95,907	96,012	96,174	96,962	97,671	97,650	98,195	97,684	97,856	98,122	98,389	98,729
Government .....	18,132	18,270	18,266	18,385	18,144	17,994	18,036	17,807	18,099	18,338	18,254	18,033	18,029
Self-employed workers .....	8,967	9,023	9,109	9,445	9,124	9,292	9,159	9,106	9,126	8,887	8,923	8,926	8,904
Unpaid family workers .....	137	140	149	162	136	108	130	148	128	131	129	81	89
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
<b>All industries:</b>													
Part time for economic reasons .....	4,286	3,983	4,338	4,426	4,262	4,153	4,402	4,019	4,025	4,017	3,992	3,916	3,898
Slack work or business conditions .....	2,258	2,107	2,353	2,423	2,378	2,344	2,491	2,300	2,375	2,211	2,122	2,159	2,196
Could only find part-time work .....	1,683	1,559	1,653	1,552	1,550	1,518	1,629	1,391	1,347	1,522	1,519	1,476	1,399
Part time for noneconomic reasons .....	17,754	17,957	17,868	18,340	18,070	18,120	18,176	18,336	18,322	18,015	18,093	17,690	18,131
<b>Nonagricultural industries:</b>													
Part time for economic reasons .....	4,118	3,815	4,162	4,163	4,098	3,937	4,235	3,806	3,782	3,872	3,854	3,728	3,726
Slack work or business conditions .....	2,147	2,001	2,214	2,310	2,277	2,210	2,374	2,159	2,220	2,102	2,037	2,040	2,095
Could only find part-time work .....	1,647	1,543	1,622	1,512	1,523	1,475	1,603	1,347	1,298	1,509	1,485	1,435	1,364
Part time for noneconomic reasons .....	17,123	17,313	17,237	17,737	17,452	17,565	17,661	17,780	17,663	17,418	17,519	17,180	17,549

<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 1997, data reflect revised population used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-7. Employed persons by age and sex, seasonally adjusted**

(In thousands)

Age and sex	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804	129,715	129,894
16 to 24 years .....	18,799	18,722	18,771	18,900	19,024	19,103	19,100	19,258	18,866	19,025	18,775	18,968	18,964
16 to 19 years .....	6,637	6,542	6,617	6,601	6,657	6,750	6,748	6,740	6,512	6,608	6,493	6,508	6,637
16 to 17 years .....	2,736	2,702	2,672	2,633	2,674	2,652	2,716	2,596	2,620	2,609	2,536	2,642	2,696
18 to 19 years .....	3,898	3,835	3,919	3,946	3,976	4,087	4,029	4,150	3,907	3,971	3,944	3,895	3,958
20 to 24 years .....	12,162	12,180	12,154	12,299	12,367	12,353	12,352	12,518	12,354	12,417	12,282	12,460	12,327
25 years and over .....	108,811	108,894	109,087	109,651	109,429	110,075	110,254	110,294	110,582	110,647	111,082	110,679	110,876
25 to 54 years .....	93,285	93,387	93,455	93,852	93,665	93,983	94,248	94,233	94,650	94,766	94,997	94,775	94,676
55 years and over .....	15,535	15,587	15,657	15,786	15,787	16,076	15,986	16,107	15,875	15,866	16,037	16,042	16,219
Men, 16 years and over .....	68,647	68,589	68,707	69,164	69,232	69,478	69,627	69,929	69,567	69,749	69,791	69,639	69,790
16 to 24 years .....	9,792	9,660	9,770	9,913	9,977	9,930	9,973	10,208	9,888	9,924	9,849	9,835	9,874
16 to 19 years .....	3,348	3,240	3,340	3,351	3,414	3,412	3,384	3,511	3,301	3,335	3,300	3,314	3,459
16 to 17 years .....	1,375	1,324	1,323	1,310	1,386	1,351	1,356	1,338	1,333	1,310	1,326	1,361	1,416
18 to 19 years .....	1,983	1,915	1,992	2,033	2,031	2,066	2,022	2,169	1,984	1,991	1,945	1,961	2,073
20 to 24 years .....	6,444	6,420	6,430	6,562	6,563	6,518	6,589	6,697	6,587	6,589	6,549	6,521	6,414
25 years and over .....	58,854	58,909	58,927	59,227	59,271	59,505	59,610	59,616	59,690	59,844	60,031	59,769	59,914
25 to 54 years .....	50,144	50,229	50,268	50,465	50,477	50,552	50,671	50,683	50,814	50,897	50,953	50,846	50,852
55 years and over .....	8,717	8,722	8,717	8,793	8,779	8,949	8,941	8,987	8,855	8,929	9,014	8,994	9,054
Women, 16 years and over .....	58,970	59,055	59,148	59,416	59,197	59,697	59,756	59,710	59,796	59,958	60,013	60,076	60,104
16 to 24 years .....	9,007	9,062	9,001	8,987	9,047	9,173	9,128	9,050	8,978	9,100	8,926	9,133	9,091
16 to 19 years .....	3,289	3,302	3,277	3,250	3,243	3,338	3,364	3,229	3,211	3,273	3,193	3,194	3,178
16 to 17 years .....	1,361	1,378	1,349	1,324	1,288	1,301	1,359	1,258	1,288	1,298	1,210	1,281	1,280
18 to 19 years .....	1,915	1,920	1,927	1,913	1,945	2,021	2,007	1,981	1,924	1,980	2,000	1,934	1,885
20 to 24 years .....	5,718	5,760	5,724	5,737	5,804	5,835	5,764	5,821	5,767	5,828	5,733	5,939	5,913
25 years and over .....	49,957	49,985	50,160	50,424	50,158	50,570	50,644	50,678	50,892	50,803	51,050	50,910	50,962
25 to 54 years .....	43,141	43,158	43,187	43,387	43,188	43,432	43,578	43,550	43,836	43,868	44,044	43,929	43,824
55 years and over .....	8,818	8,865	6,940	6,992	7,008	7,127	7,045	7,120	7,020	6,937	7,024	7,048	7,165

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

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

(In thousands)

Age and sex	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	7,019	7,187	7,167	7,268	7,205	7,144	6,714	6,534	6,836	6,583	6,677	6,752	6,467
16 to 24 years .....	2,480	2,531	2,526	2,625	2,583	2,554	2,449	2,357	2,442	2,328	2,390	2,410	2,364
16 to 19 years .....	1,294	1,324	1,308	1,354	1,408	1,328	1,229	1,244	1,314	1,293	1,278	1,305	1,201
16 to 17 years .....	599	555	641	567	655	637	618	585	548	555	544	640	563
18 to 19 years .....	706	788	677	787	712	697	617	657	762	748	732	666	649
20 to 24 years .....	1,186	1,207	1,218	1,270	1,175	1,226	1,220	1,114	1,128	1,036	1,112	1,105	1,162
25 years and over .....	4,538	4,630	4,696	4,590	4,638	4,591	4,253	4,209	4,382	4,224	4,318	4,342	4,089
25 to 54 years .....	4,053	4,131	4,147	4,137	4,142	4,016	3,750	3,733	3,857	3,777	3,786	3,830	3,632
55 years and over .....	507	493	542	501	485	550	487	481	515	489	500	518	465
Men, 16 years and over .....	3,716	3,773	3,707	3,942	3,755	3,790	3,604	3,271	3,674	3,481	3,524	3,551	3,543
16 to 24 years .....	1,370	1,378	1,366	1,468	1,361	1,384	1,331	1,175	1,359	1,272	1,340	1,356	1,368
16 to 19 years .....	742	731	705	757	746	745	701	630	774	692	714	705	672
16 to 17 years .....	336	309	343	336	338	368	350	290	330	299	282	317	310
18 to 19 years .....	409	448	364	418	369	386	362	339	440	386	429	387	362
20 to 24 years .....	628	647	661	711	615	640	631	544	585	580	626	651	696
25 years and over .....	2,350	2,390	2,337	2,441	2,419	2,390	2,267	2,113	2,311	2,176	2,218	2,177	2,162
25 to 54 years .....	2,079	2,098	2,032	2,174	2,117	2,058	2,003	1,846	2,018	1,920	1,917	1,922	1,882
55 years and over .....	268	283	303	293	299	323	272	263	287	272	279	273	271
Women, 16 years and over .....	3,303	3,414	3,460	3,327	3,450	3,354	3,109	3,263	3,162	3,102	3,152	3,201	2,923
16 to 24 years .....	1,110	1,153	1,160	1,157	1,222	1,170	1,118	1,183	1,083	1,057	1,050	1,053	996
16 to 19 years .....	552	593	603	598	662	583	528	614	540	601	564	600	529
16 to 17 years .....	263	246	298	231	317	269	268	295	217	256	262	323	252
18 to 19 years .....	297	340	313	369	343	311	255	318	322	361	303	279	287
20 to 24 years .....	558	560	557	559	560	587	589	569	542	456	486	453	467
25 years and over .....	2,188	2,240	2,359	2,148	2,219	2,202	1,986	2,096	2,071	2,048	2,100	2,165	1,926
25 to 54 years .....	1,974	2,033	2,115	1,963	2,025	1,960	1,747	1,887	1,839	1,856	1,869	1,908	1,750
55 years and over .....	239	210	239	208	186	227	214	218	228	218	221	245	194

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-9. Unemployment rates by age and sex, seasonally adjusted**

(Percent)

Age and sex	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9	4.9	4.7
16 to 24 years .....	11.7	11.9	11.9	12.2	12.0	11.8	11.4	10.9	11.5	10.9	11.3	11.3	11.1
16 to 19 years .....	16.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4	16.7	15.3
16 to 17 years .....	18.0	17.0	19.3	17.7	19.7	19.4	18.5	18.4	17.3	17.5	17.7	19.5	17.3
18 to 19 years .....	15.3	17.0	14.7	16.6	15.2	14.6	13.3	13.7	16.3	15.8	15.6	14.6	14.1
20 to 24 years .....	8.9	9.0	9.1	9.4	8.7	9.0	9.0	8.2	8.4	7.7	8.3	8.1	8.6
25 years and over .....	4.0	4.1	4.1	4.0	4.1	4.0	3.7	3.7	3.8	3.7	3.7	3.8	3.6
25 to 54 years .....	4.2	4.2	4.2	4.2	4.2	4.1	3.8	3.8	3.9	3.8	3.8	3.9	3.7
55 years and over .....	3.2	3.1	3.3	3.1	3.0	3.3	3.0	2.9	3.1	3.0	3.0	3.1	2.8
Men, 16 years and over .....	5.1	5.2	5.1	5.4	5.1	5.2	4.9	4.5	5.0	4.8	4.8	4.9	4.8
16 to 24 years .....	12.3	12.5	12.3	12.9	12.0	12.2	11.8	10.3	12.1	11.4	12.0	12.1	12.2
16 to 19 years .....	18.1	18.4	17.4	18.4	17.9	17.9	17.2	15.2	19.0	17.2	17.8	17.5	16.3
16 to 17 years .....	19.6	18.9	20.6	20.4	19.6	21.4	20.5	17.8	19.9	18.6	17.5	18.9	18.0
18 to 19 years .....	17.1	19.0	15.4	17.1	15.4	15.7	15.2	13.5	18.2	16.2	18.1	16.5	14.9
20 to 24 years .....	8.9	9.2	9.3	9.8	8.6	8.9	8.7	7.5	8.2	8.1	8.7	9.1	9.8
25 years and over .....	3.8	3.9	3.8	4.0	3.9	3.9	3.7	3.4	3.7	3.5	3.6	3.5	3.5
25 to 54 years .....	4.0	4.0	3.9	4.1	4.0	3.9	3.8	3.5	3.8	3.6	3.6	3.6	3.6
55 years and over .....	3.0	3.1	3.4	3.2	3.3	3.5	3.0	2.8	3.1	3.0	3.0	2.9	2.9
Women, 16 years and over .....	5.3	5.5	5.5	5.3	5.5	5.3	4.9	5.2	5.0	4.9	5.0	5.1	4.6
16 to 24 years .....	11.0	11.3	11.4	11.4	11.9	11.3	10.9	11.6	10.8	10.4	10.5	10.3	9.9
16 to 19 years .....	14.4	15.2	15.5	15.5	16.9	14.9	13.6	16.0	14.4	15.5	15.0	15.8	14.3
16 to 17 years .....	16.2	15.1	18.1	14.9	19.7	17.1	16.5	19.0	14.4	16.4	17.8	20.1	16.5
18 to 19 years .....	13.4	15.0	14.0	16.2	15.0	13.3	11.3	13.8	14.3	15.4	13.1	12.6	13.2
20 to 24 years .....	8.9	8.9	8.9	8.9	8.8	9.1	9.3	8.9	8.6	7.3	7.8	7.1	7.3
25 years and over .....	4.2	4.3	4.5	4.1	4.2	4.2	3.8	4.0	3.9	3.9	4.0	4.1	3.6
25 to 54 years .....	4.4	4.5	4.7	4.3	4.5	4.3	3.9	4.2	4.0	4.1	4.1	4.2	3.8
55 years and over .....	3.4	3.0	3.3	2.9	2.6	3.1	3.0	3.0	3.2	3.0	3.0	3.4	2.6

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

A-10. Unemployment rates by occupation, industry, and selected demographic characteristics, seasonally adjusted

(Percent)

Category	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTIC</b>													
Total .....	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9	4.9	4.7
Men, 20 years and over .....	4.4	4.4	4.4	4.6	4.4	4.4	4.2	3.8	4.2	4.0	4.1	4.1	4.1
Women, 20 years and over .....	4.7	4.8	4.9	4.6	4.7	4.7	4.4	4.5	4.4	4.2	4.4	4.4	4.0
Both sexes, 16 to 19 years .....	16.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4	16.7	15.3
White .....	4.5	4.6	4.8	4.6	4.5	4.5	4.2	4.0	4.2	4.2	4.2	4.3	4.1
Black and other .....	9.3	9.1	9.2	9.4	9.7	9.5	9.0	9.3	9.1	8.2	8.2	8.4	8.1
Black .....	10.7	10.8	10.5	10.8	11.3	10.7	9.8	10.3	10.4	9.4	9.3	9.6	9.5
Hispanic origin .....	8.2	8.3	7.7	8.3	8.1	8.6	8.1	7.4	7.6	7.9	7.2	7.6	8.0
Married men, spouse present .....	3.0	3.0	3.0	2.8	2.8	2.8	2.7	2.6	2.7	2.6	2.6	2.7	2.6
Married women, spouse present .....	3.5	3.6	3.7	3.3	3.4	3.2	3.1	3.2	3.2	3.1	3.0	3.1	2.8
Women who maintain families .....	8.5	8.8	8.4	9.1	9.0	9.1	7.5	7.6	8.0	7.4	8.1	7.7	7.7
<b>OCCUPATION<sup>1</sup></b>													
Managerial and professional specialty .....	2.2	2.3	2.4	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	1.8
Technical, sales, and administrative support .....	4.5	4.5	4.6	4.4	4.3	4.3	4.2	3.8	4.3	4.1	4.2	3.9	3.9
Precision production, craft, and repair .....	5.5	5.7	5.4	5.3	4.7	4.9	4.8	4.6	4.7	4.9	4.7	4.8	5.4
Operators, fabricators, and laborers .....	7.7	7.7	7.6	7.9	8.1	8.1	7.3	7.1	7.4	7.4	7.7	8.0	7.0
Farming, forestry, and fishing .....	7.0	7.7	7.7	7.5	7.5	7.4	6.6	6.2	8.1	6.0	7.4	6.4	7.8
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers ...	5.3	5.5	5.4	5.4	5.3	5.2	5.0	5.0	5.0	4.9	5.0	5.1	4.8
Goods-producing industries .....	5.8	6.1	5.9	6.0	5.6	5.5	5.4	5.2	5.2	5.4	5.4	5.2	4.9
Mining .....	5.8	4.9	7.6	6.0	4.2	4.0	2.0	3.0	2.3	3.8	5.3	2.9	6.0
Construction .....	9.6	10.3	9.4	10.1	9.0	9.6	8.7	6.4	8.5	8.7	9.3	8.6	8.7
Manufacturing .....	4.7	4.7	4.8	4.6	4.5	4.3	4.4	4.2	4.1	4.3	4.1	4.2	3.7
Durable goods .....	4.4	4.5	4.7	4.4	4.0	3.6	3.6	3.5	3.5	3.4	3.6	3.3	3.0
Nondurable goods .....	5.1	5.1	5.0	4.8	5.3	5.2	5.8	5.3	5.0	5.5	4.9	5.5	4.7
Service-producing industries .....	5.1	5.2	5.2	5.2	5.2	5.1	4.9	4.9	5.0	4.7	4.9	5.0	4.7
Transportation and public utilities .....	4.4	3.5	4.0	4.1	4.3	4.1	2.8	3.6	2.9	3.4	3.9	3.9	3.2
Wholesale and retail trade .....	6.2	6.3	6.2	6.4	6.5	6.3	6.2	6.1	6.5	6.0	6.2	6.3	6.2
Finance, insurance, and real estate .....	2.9	2.9	3.1	3.5	3.0	3.2	3.4	3.2	2.5	3.2	3.0	3.0	2.9
Services .....	5.0	5.3	5.2	4.9	5.0	4.8	4.6	4.8	4.8	4.3	4.5	4.7	4.3
Government workers .....	2.9	2.8	3.0	2.9	2.9	2.8	2.4	2.4	2.9	2.8	2.6	2.6	2.4
Agricultural wage and salary workers .....	10.0	10.9	10.3	8.6	8.8	9.5	9.6	7.1	10.6	7.5	9.5	8.9	9.8

<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 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-11. Unemployed persons by reason for unemployment, seasonally adjusted**

(Numbers in thousands)

Reason	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers and persons who completed temporary jobs	3,171	3,261	3,221	3,245	3,163	3,187	2,979	2,902	3,145	2,903	3,064	3,017	2,906
On temporary layoff .....	957	994	987	953	944	1,021	976	871	925	877	865	878	987
Not on temporary layoff .....	2,214	2,267	2,234	2,293	2,218	2,167	2,003	2,031	2,220	2,026	2,199	2,140	1,920
Job leavers .....	797	825	845	890	787	784	754	801	829	822	915	868	723
Reentrants .....	2,489	2,523	2,556	2,505	2,648	2,535	2,420	2,306	2,359	2,244	2,144	2,259	2,245
New entrants .....	577	586	626	600	647	647	577	574	481	553	544	561	553
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers and persons who completed temporary jobs	45.1	45.3	44.4	44.8	43.7	44.6	44.3	44.1	46.2	44.5	46.0	45.0	45.2
On temporary layoff .....	13.6	13.8	13.6	13.2	13.0	14.3	14.5	13.2	13.6	13.4	13.0	13.1	15.4
Not on temporary layoff .....	31.5	31.5	30.8	31.7	30.6	30.3	29.8	30.9	32.6	31.1	33.0	31.9	29.9
Job leavers .....	11.3	11.5	11.7	12.3	10.9	11.0	11.2	12.2	12.2	12.6	13.7	12.9	11.2
Reentrants .....	35.4	35.1	35.3	34.6	36.6	35.4	36.0	35.0	34.6	34.4	32.2	33.7	34.9
New entrants .....	8.2	8.1	8.6	8.3	8.9	9.0	8.6	8.7	7.1	8.5	8.2	8.4	8.6
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers and persons who completed temporary jobs	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.3	2.1	2.2	2.2	2.1
Job leavers .....	.6	.6	.6	.7	.6	.6	.6	.6	.6	.6	.7	.6	.5
Reentrants .....	1.8	1.9	1.9	1.8	2.0	1.9	1.8	1.7	1.7	1.6	1.6	1.7	1.6
New entrants .....	.4	.4	.5	.4	.5	.5	.4	.4	.4	.4	.4	.4	.4

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**A-12. Unemployed persons by duration of unemployment, seasonally adjusted**

(Numbers in thousands)

Duration	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>NUMBER OF UNEMPLOYED</b>													
Less than 5 weeks .....	2,556	2,819	2,671	2,801	2,591	2,650	2,354	2,523	2,538	2,352	2,598	2,470	2,639
5 to 14 weeks .....	2,265	2,252	2,357	2,223	2,382	2,380	2,156	2,022	2,211	2,071	2,134	2,142	1,883
15 weeks and over .....	2,294	2,184	2,179	2,155	2,163	2,064	2,092	2,071	2,063	2,157	2,012	2,127	1,983
15 to 26 weeks .....	1,062	1,018	976	943	1,025	1,001	1,058	1,078	1,045	1,082	931	1,035	890
27 weeks and over .....	1,232	1,166	1,203	1,212	1,138	1,063	1,034	993	1,018	1,074	1,082	1,092	1,093
Average (mean) duration, in weeks .....	16.7	16.0	15.8	16.0	16.0	15.3	15.2	15.1	15.1	16.6	15.9	16.0	16.6
Median duration, in weeks .....	8.3	7.7	7.8	7.7	8.4	7.9	8.3	7.7	7.7	8.5	7.8	8.4	7.6
<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 .....	35.9	38.9	37.1	39.0	36.3	37.4	35.7	38.1	37.3	35.7	38.5	36.7	40.6
5 to 14 weeks .....	31.8	31.0	32.7	31.0	33.4	33.6	32.7	30.6	32.5	31.5	31.6	31.8	28.9
15 weeks and over .....	32.2	30.1	30.2	30.0	30.3	29.1	31.7	31.3	30.3	32.8	29.8	31.6	30.5
15 to 26 weeks .....	14.9	14.0	13.5	13.1	14.4	14.1	16.0	16.3	15.3	16.5	13.8	15.4	13.7
27 weeks and over .....	17.3	16.1	16.7	16.9	15.9	15.0	15.7	15.0	14.9	16.3	16.0	16.2	16.8

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

A-13. Employment status of the civilian noninstitutional population by age, sex, and race

(Numbers in thousands)

Age, sex, and race	October 1997									
	Civilian noninstitutional population	Civilian labor force							Not in labor force	
		Total	Percent of population	Employed				Unemployed		
				Total	Percent of population	Agri-culture	Nonagri-cultural industries	Number		Percent of labor force
<b>TOTAL</b>										
16 years and over .....	203,767	136,865	67.1	130,671	64.1	3,372	127,299	5,995	4.4	67,102
16 to 19 years .....	15,483	7,528	48.6	6,419	41.5	174	6,245	1,108	14.7	7,955
16 to 17 years .....	7,970	3,120	39.1	2,640	33.1	86	2,554	480	15.4	4,850
18 to 19 years .....	7,513	4,408	58.7	3,779	50.3	88	3,691	629	14.3	3,105
20 to 24 years .....	17,470	13,401	76.7	12,345	70.7	286	12,058	1,057	7.9	4,069
25 to 54 years .....	117,039	98,890	84.5	95,494	81.6	2,091	93,403	3,396	3.4	18,148
25 to 34 years .....	39,299	33,362	84.9	31,980	81.4	743	31,237	1,382	4.1	5,938
25 to 29 years .....	18,847	15,993	84.9	15,206	80.7	338	14,871	784	4.9	2,854
30 to 34 years .....	20,453	17,369	84.9	16,771	82.0	405	16,366	598	3.4	3,084
35 to 44 years .....	44,020	37,721	85.7	38,434	82.8	778	35,658	1,286	3.4	8,299
35 to 39 years .....	22,558	19,222	85.2	18,551	82.2	390	18,160	872	3.5	3,336
40 to 44 years .....	21,462	18,498	86.2	17,884	83.3	386	17,498	615	3.3	2,963
45 to 54 years .....	33,720	27,808	82.5	27,080	80.3	571	26,509	728	2.6	5,912
45 to 49 years .....	18,537	15,614	84.2	15,222	82.1	308	14,914	392	2.5	2,923
50 to 54 years .....	15,183	12,194	80.3	11,858	78.1	263	11,595	336	2.8	2,989
55 to 64 years .....	21,668	12,646	59.8	12,646	58.4	463	12,183	318	2.5	8,704
55 to 59 years .....	11,727	8,255	70.4	8,059	68.7	233	7,828	196	2.4	3,472
60 to 64 years .....	9,941	4,709	47.4	4,587	48.1	230	4,357	122	2.8	5,232
65 years and over .....	32,108	3,882	12.1	3,787	11.7	357	3,409	115	3.0	28,226
65 to 69 years .....	9,552	2,119	22.2	2,046	21.4	160	1,886	72	3.4	7,433
70 to 74 years .....	8,538	1,062	12.4	1,033	12.1	115	918	28	2.7	7,476
75 years and over .....	14,018	702	5.0	687	4.9	82	604	15	2.1	13,317
<b>Men</b>										
16 years and over .....	98,050	73,345	74.8	70,215	71.6	2,498	67,717	3,130	4.3	24,705
16 to 19 years .....	7,910	3,984	50.4	3,361	42.5	135	3,226	623	15.8	3,926
16 to 17 years .....	4,095	1,653	40.4	1,392	34.0	59	1,334	260	15.7	2,442
18 to 19 years .....	3,815	2,331	61.1	1,968	51.6	76	1,892	363	15.6	1,483
20 to 24 years .....	8,706	7,051	81.0	6,452	74.1	227	6,225	599	6.5	1,655
25 to 54 years .....	57,537	52,894	91.9	51,236	89.0	1,544	49,692	1,659	3.1	4,642
25 to 34 years .....	19,355	18,034	93.2	17,415	90.0	563	18,851	619	3.4	1,321
25 to 29 years .....	9,249	8,572	92.7	8,212	88.6	255	7,957	361	4.2	676
30 to 34 years .....	10,106	9,462	93.6	9,203	91.1	308	8,895	259	2.7	645
35 to 44 years .....	21,741	20,215	93.0	19,604	90.2	579	19,024	611	3.0	1,526
35 to 39 years .....	11,125	10,383	93.3	10,075	90.6	279	9,796	308	3.0	742
40 to 44 years .....	10,616	9,832	92.6	9,529	89.8	300	9,228	303	3.1	784
45 to 54 years .....	16,441	14,845	89.1	14,218	88.5	401	13,816	428	2.9	1,795
45 to 49 years .....	9,077	8,191	90.2	7,954	87.6	219	7,735	238	2.9	886
50 to 54 years .....	7,364	6,454	87.8	6,264	85.1	183	6,081	190	2.9	909
55 to 64 years .....	10,366	7,059	68.1	6,889	66.3	316	6,553	190	2.7	3,308
55 to 59 years .....	5,638	4,441	78.8	4,342	77.0	151	4,191	99	2.2	1,197
60 to 64 years .....	4,728	2,618	55.4	2,527	53.4	164	2,362	91	3.5	2,111
65 years and over .....	13,531	2,357	17.4	2,298	17.0	277	2,021	59	2.5	11,174
65 to 69 years .....	4,347	1,255	28.9	1,218	28.0	124	1,095	37	2.9	3,092
70 to 74 years .....	3,731	635	17.0	617	16.5	83	534	18	2.8	3,096
75 years and over .....	5,453	468	8.6	463	8.5	70	393	4	.8	4,986
<b>Women</b>										
18 years and over .....	105,718	63,321	59.9	60,456	57.2	874	59,582	2,885	4.5	42,397
16 to 19 years .....	7,573	3,544	46.8	3,059	40.4	40	3,019	485	13.7	4,030
16 to 17 years .....	3,875	1,467	37.9	1,248	32.2	27	1,220	219	15.0	2,408
18 to 19 years .....	3,898	2,077	56.2	1,811	49.0	12	1,799	268	12.8	1,621
20 to 24 years .....	8,784	6,351	72.5	5,893	87.2	80	5,833	458	7.2	2,413
25 to 54 years .....	59,502	45,996	77.3	44,258	74.4	547	43,711	1,738	3.8	13,506
25 to 34 years .....	19,945	15,328	78.9	14,565	73.0	180	14,386	763	5.0	4,617
25 to 29 years .....	9,598	7,421	77.3	6,997	72.9	83	6,914	424	5.7	2,178
30 to 34 years .....	10,346	7,907	76.4	7,568	73.2	97	7,471	339	4.3	2,439
35 to 44 years .....	22,279	17,506	78.6	18,831	75.5	197	18,634	675	3.9	4,773
35 to 39 years .....	11,433	8,839	77.3	8,478	74.1	112	8,364	363	4.1	2,594
40 to 44 years .....	10,845	8,666	79.9	8,355	77.0	86	8,289	311	3.6	2,179
45 to 54 years .....	17,279	13,182	76.2	12,862	74.4	170	12,692	300	2.3	4,116
45 to 49 years .....	9,459	7,422	78.5	7,288	76.8	90	7,199	154	2.1	2,037
50 to 54 years .....	7,619	5,740	73.4	5,594	71.5	80	5,513	146	2.5	2,079
55 to 64 years .....	11,301	5,905	52.3	5,777	51.1	147	5,630	128	2.2	5,396
55 to 59 years .....	8,089	3,814	47.3	3,717	46.1	82	3,635	97	2.5	2,275
60 to 64 years .....	5,213	2,091	40.1	2,060	39.5	65	1,995	31	1.5	3,122
65 years and over .....	18,577	1,525	8.2	1,468	7.9	80	1,388	57	3.7	17,052
65 to 69 years .....	5,205	864	16.8	828	15.9	36	792	35	4.1	4,341
70 to 74 years .....	4,807	428	8.9	416	8.7	32	384	11	2.5	4,380
75 years and over .....	8,565	235	2.7	224	2.6	13	212	11	4.6	8,330

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-13. Employment status of the civilian noninstitutional population by age, sex, and race — Continued**

(Numbers in thousands)

Age, sex, and race	October 1997									
	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 .....	170,427	114,963	67.5	110,653	64.9	3,198	107,456	4,309	3.7	55,464
16 to 19 years .....	12,232	6,393	52.3	5,579	45.6	168	5,411	614	12.7	5,639
16 to 17 years .....	6,237	2,661	42.7	2,301	36.9	85	2,216	360	13.5	3,576
18 to 19 years .....	5,995	3,732	62.3	3,277	54.7	83	3,195	454	12.2	2,283
20 to 24 years .....	14,025	11,053	78.6	10,336	73.7	259	10,077	717	6.5	2,972
25 to 54 years .....	96,942	82,651	85.3	80,203	82.7	1,975	78,227	2,448	3.0	14,290
25 to 34 years .....	31,857	27,309	85.7	26,367	82.8	711	25,656	943	3.5	4,548
25 to 29 years .....	15,185	13,051	85.9	12,542	82.8	330	12,212	510	3.9	2,134
30 to 34 years .....	16,672	14,256	85.5	13,825	82.9	381	13,444	433	3.0	2,414
35 to 44 years .....	36,418	31,438	86.3	30,503	83.8	724	29,780	935	3.0	4,980
35 to 39 years .....	18,583	15,909	85.6	15,448	83.1	363	15,085	461	2.9	2,673
40 to 44 years .....	17,835	15,529	87.1	15,055	84.4	381	14,695	474	3.0	2,307
45 to 54 years .....	28,667	23,904	83.4	23,333	81.4	541	22,792	571	2.4	4,763
45 to 49 years .....	15,605	13,244	84.9	12,954	83.0	297	12,658	290	2.2	2,360
50 to 54 years .....	13,062	10,660	81.6	10,379	79.5	244	10,135	281	2.6	2,402
55 to 64 years .....	18,679	11,337	60.7	11,109	59.5	448	10,661	228	2.0	7,342
55 to 59 years .....	10,112	7,227	71.5	7,060	70.1	227	6,863	137	1.9	2,885
60 to 64 years .....	8,567	4,110	48.0	4,019	46.9	221	3,798	91	2.2	4,457
65 years and over .....	28,549	3,528	12.4	3,427	12.0	348	3,079	101	2.9	25,021
65 to 69 years .....	8,305	1,921	23.1	1,660	22.4	157	1,703	61	3.2	6,384
70 to 74 years .....	7,584	981	12.9	954	12.6	116	838	27	2.8	6,603
75 years and over .....	12,660	826	4.9	613	4.8	75	538	13	2.0	12,034
<b>Men</b>										
16 years and over .....	82,818	62,642	75.8	60,315	72.8	2,349	57,966	2,328	3.7	20,175
16 to 19 years .....	6,281	3,429	54.8	2,941	46.8	129	2,812	488	14.2	2,852
16 to 17 years .....	3,221	1,408	43.7	1,202	37.3	57	1,145	205	14.8	1,813
18 to 19 years .....	3,060	2,021	66.1	1,739	56.8	72	1,667	262	14.0	1,039
20 to 24 years .....	7,113	5,906	83.0	5,481	77.1	201	5,281	425	7.2	1,206
25 to 54 years .....	48,315	44,911	93.0	43,701	90.5	1,447	42,255	1,210	2.7	3,403
25 to 34 years .....	15,931	15,034	94.4	14,614	91.7	544	14,070	421	2.8	897
25 to 29 years .....	7,592	7,132	93.9	6,888	90.7	248	6,640	245	3.4	459
30 to 34 years .....	8,339	7,902	94.8	7,726	92.6	296	7,430	176	2.2	437
35 to 44 years .....	18,213	17,132	94.1	16,680	91.6	529	16,151	452	2.8	1,081
35 to 39 years .....	9,304	8,770	94.3	8,548	91.9	249	8,299	222	2.5	534
40 to 44 years .....	8,909	8,362	93.9	8,132	91.3	279	7,853	231	2.8	546
45 to 54 years .....	14,171	12,745	89.9	12,407	87.8	374	12,033	337	2.8	1,426
45 to 49 years .....	7,747	7,050	91.0	6,872	86.7	206	6,664	178	2.5	697
50 to 54 years .....	6,424	5,695	88.6	5,536	86.2	166	5,370	159	2.8	729
55 to 64 years .....	9,014	8,240	89.2	8,084	87.5	304	7,780	157	2.5	2,774
55 to 59 years .....	4,914	3,927	79.9	3,845	78.2	146	3,699	82	2.1	987
60 to 64 years .....	4,100	2,313	56.4	2,239	54.6	158	2,081	74	3.2	1,786
65 years and over .....	12,096	2,158	17.8	2,107	17.4	268	1,839	48	2.2	9,940
65 to 69 years .....	3,845	1,139	29.6	1,110	28.9	120	990	29	2.8	2,708
70 to 74 years .....	3,351	594	17.7	577	17.2	84	493	17	2.9	2,757
75 years and over .....	4,900	422	8.6	421	8.6	64	357	2	.4	4,478
<b>Women</b>										
16 years and over .....	87,609	52,320	59.7	50,338	57.5	849	49,489	1,982	3.8	35,289
16 to 19 years .....	5,951	2,964	49.8	2,638	44.3	38	2,599	326	11.0	2,967
16 to 17 years .....	3,016	1,254	41.6	1,099	36.4	26	1,072	154	12.3	1,763
18 to 19 years .....	2,934	1,711	58.3	1,538	52.4	11	1,528	172	10.1	1,224
20 to 24 years .....	6,913	5,147	74.5	4,855	70.2	58	4,797	292	5.7	1,766
25 to 54 years .....	48,627	37,740	77.8	36,502	75.1	529	35,973	1,236	3.3	10,887
25 to 34 years .....	15,926	12,275	77.1	11,753	73.8	167	11,586	522	4.3	3,651
25 to 29 years .....	7,594	5,919	77.9	5,654	74.5	82	5,572	265	4.5	1,675
30 to 34 years .....	8,333	6,356	76.3	6,099	73.2	85	6,014	257	4.0	1,976
35 to 44 years .....	18,205	14,306	78.6	13,823	75.9	195	13,628	482	3.4	3,899
35 to 39 years .....	9,278	7,139	78.9	6,900	74.4	113	6,786	240	3.4	2,139
40 to 44 years .....	8,927	7,166	80.3	6,923	77.8	82	6,842	243	3.4	1,760
45 to 54 years .....	14,496	11,159	77.0	10,926	75.4	167	10,759	234	2.1	3,337
45 to 49 years .....	7,658	6,194	78.8	6,082	77.4	89	5,993	112	1.8	1,664
50 to 54 years .....	6,638	4,965	74.8	4,843	73.0	78	4,766	122	2.4	1,673
55 to 64 years .....	9,665	5,097	52.7	5,025	52.0	144	4,881	72	1.4	4,588
55 to 59 years .....	5,198	3,300	63.5	3,245	62.4	61	3,184	55	1.7	1,898
60 to 64 years .....	4,467	1,797	40.2	1,760	39.8	63	1,717	17	.9	2,670
65 years and over .....	16,453	1,373	8.3	1,320	8.0	80	1,240	53	3.8	15,081
65 to 69 years .....	4,461	782	17.5	750	16.8	38	713	32	4.1	3,679
70 to 74 years .....	4,233	387	9.1	377	8.9	32	345	10	2.6	3,846
75 years and over .....	7,760	204	2.8	193	2.5	12	161	11	5.3	7,556

See footnotes at end of table.



A-13. Employment status of the civilian noninstitutional population by age, sex, and race — Continued

(Numbers in thousands)

Age, sex, and race	October 1997									
	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 .....	24,117	15,824	64.8	14,208	58.9	111	14,097	1,416	9.1	8,493
16 to 19 years .....	2,434	678	36.1	634	26.0	2	632	244	27.8	1,556
18 to 17 years .....	1,289	355	27.5	260	20.2	-	260	95	28.8	934
18 to 19 years .....	1,145	523	45.7	374	32.7	2	372	149	28.5	622
20 to 24 years .....	2,521	1,742	69.1	1,430	56.7	14	1,416	312	17.9	779
25 to 54 years .....	14,312	11,602	81.1	10,626	75.6	85	10,741	776	6.7	2,710
25 to 34 years .....	5,251	4,377	83.4	4,005	76.3	22	3,983	372	8.5	674
25 to 29 years .....	2,591	2,140	82.6	1,910	73.7	5	1,906	229	10.7	451
30 to 34 years .....	2,661	2,237	84.1	2,094	78.7	17	2,077	143	6.4	423
35 to 44 years .....	5,441	4,454	81.9	4,153	76.3	36	4,118	301	6.8	987
35 to 39 years .....	2,830	2,350	83.0	2,178	76.9	19	2,159	172	7.3	480
40 to 44 years .....	2,611	2,104	80.6	1,976	75.7	19	1,957	128	8.1	507
45 to 54 years .....	3,619	2,771	76.8	2,668	73.7	25	2,643	103	3.7	848
45 to 49 years .....	2,129	1,715	80.5	1,646	77.3	9	1,637	69	4.0	414
50 to 54 years .....	1,490	1,058	70.9	1,021	68.5	16	1,006	35	3.3	434
55 to 64 years .....	2,186	1,139	52.1	1,089	48.9	8	1,081	69	6.1	1,047
55 to 59 years .....	1,199	749	62.5	703	58.6	6	697	46	6.2	450
60 to 64 years .....	987	390	39.5	367	37.1	2	364	23	5.9	588
65 years and over .....	2,664	264	9.9	249	9.4	3	246	14	5.4	2,400
65 to 69 years .....	911	137	15.1	126	13.9	-	127	11	7.9	773
70 to 74 years .....	726	63	8.7	62	8.5	-	63	1	(1)	665
75 years and over .....	1,026	63	6.2	61	6.0	5	57	2	(1)	963
<b>Men</b>										
16 years and over .....	10,617	7,427	68.7	6,786	62.7	95	6,690	641	8.8	3,390
16 to 19 years .....	1,209	423	34.9	316	26.2	-	316	106	25.1	787
18 to 17 years .....	649	178	27.4	140	21.5	-	140	38	21.4	472
18 to 19 years .....	580	245	43.7	177	31.6	-	177	68	27.8	315
20 to 24 years .....	1,151	837	72.7	680	59.1	14	666	157	18.7	315
25 to 54 years .....	6,461	5,514	85.3	5,166	80.0	71	5,098	346	6.3	947
25 to 34 years .....	2,345	2,066	88.1	1,909	81.4	13	1,897	157	7.8	276
25 to 29 years .....	1,118	993	88.6	907	81.2	4	904	86	8.7	125
30 to 34 years .....	1,227	1,073	87.5	1,002	81.7	9	993	71	6.8	154
35 to 44 years .....	2,488	2,119	85.2	1,987	79.9	36	1,951	132	6.2	369
35 to 39 years .....	1,290	1,124	87.1	1,052	81.6	20	1,032	71	6.4	166
40 to 44 years .....	1,198	995	83.1	935	76.0	16	919	60	6.1	203
45 to 54 years .....	1,629	1,329	81.6	1,272	78.1	22	1,250	57	4.3	300
45 to 49 years .....	965	618	64.5	777	80.5	9	768	39	4.7	150
50 to 54 years .....	683	513	77.3	495	74.8	38	482	16	3.5	150
55 to 64 years .....	945	514	54.4	491	52.0	8	484	23	4.4	431
55 to 59 years .....	523	352	67.2	340	65.0	5	335	12	3.3	171
60 to 64 years .....	422	162	38.4	151	35.8	2	149	11	6.7	280
65 years and over .....	1,050	140	13.3	130	12.3	3	126	10	7.4	910
65 to 69 years .....	362	71	19.6	63	17.5	-	64	6	(1)	291
70 to 74 years .....	295	35	11.8	34	11.5	-	35	1	(1)	261
75 years and over .....	393	34	8.6	32	8.3	5	28	2	(1)	359
<b>Women</b>										
16 years and over .....	13,300	6,197	61.6	7,422	55.8	15	7,406	775	9.5	5,103
16 to 19 years .....	1,225	455	37.2	317	25.9	2	316	138	30.3	770
18 to 17 years .....	640	177	27.7	120	18.6	-	120	57	32.1	463
18 to 19 years .....	585	278	47.8	197	33.7	2	196	81	29.1	307
20 to 24 years .....	1,369	905	66.1	749	54.7	-	750	155	17.2	464
25 to 54 years .....	7,852	6,089	77.5	5,658	72.1	14	5,644	431	7.1	1,783
25 to 34 years .....	2,907	2,311	79.5	2,095	72.1	9	2,086	215	9.3	596
25 to 29 years .....	1,473	1,146	77.8	1,003	68.1	1	1,002	143	12.5	328
30 to 34 years .....	1,434	1,164	81.2	1,092	76.2	6	1,084	72	6.2	270
35 to 44 years .....	2,954	2,335	79.1	2,166	73.3	2	2,165	169	7.2	619
35 to 39 years .....	1,541	1,228	79.8	1,125	73.0	-	1,128	101	8.2	314
40 to 44 years .....	1,413	1,109	78.5	1,041	73.7	3	1,038	68	6.1	304
45 to 54 years .....	1,991	1,443	72.5	1,396	70.1	3	1,393	47	3.2	546
45 to 49 years .....	1,164	899	77.3	869	74.7	-	869	30	3.3	265
50 to 54 years .....	827	543	65.7	526	63.7	3	524	17	3.1	284
55 to 64 years .....	1,240	625	50.3	578	46.8	-	577	47	7.5	618
55 to 59 years .....	675	397	58.6	362	53.7	-	362	35	6.7	278
60 to 64 years .....	585	227	40.2	215	36.1	-	215	12	5.3	338
65 years and over .....	1,814	124	7.7	120	7.4	-	120	4	(1)	1,490
65 to 69 years .....	549	67	12.1	63	11.5	-	63	3	(1)	482
70 to 74 years .....	432	26	6.0	26	6.0	-	26	1	(1)	404
75 years and over .....	633	29	4.5	29	4.5	-	29	-	-	604

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

the household survey.

NOTE: Beginning in January 1997, data reflect revised population controls used in

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-14. 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	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
<b>TOTAL</b>								
Civilian noninstitutional population .....	201,273	203,767	88,840	90,140	97,290	98,144	15,143	15,483
Civilian labor force .....	135,015	136,665	68,495	69,361	58,902	59,777	7,618	7,528
Percent of population .....	67.1	67.1	77.1	76.9	60.5	60.9	50.3	48.6
Employed .....	128,439	130,671	65,854	66,855	56,179	57,397	6,406	6,419
Agriculture .....	3,515	3,372	2,478	2,363	823	834	214	174
Nonagricultural industries .....	124,924	127,299	63,376	64,491	55,356	56,562	6,192	6,245
Unemployed .....	6,577	5,995	2,641	2,506	2,723	2,380	1,212	1,108
Unemployment rate .....	4.9	4.4	3.9	3.6	4.6	4.0	15.9	14.7
Not in labor force .....	66,258	67,102	20,345	20,780	38,388	38,367	7,525	7,955
<b>White</b>								
Civilian noninstitutional population .....	168,788	170,427	75,642	76,537	81,195	81,658	11,951	12,232
Civilian labor force .....	113,830	114,963	58,687	59,214	48,734	49,356	6,409	6,393
Percent of population .....	67.4	67.5	77.6	77.4	60.0	60.4	53.6	52.3
Employed .....	109,162	110,653	56,738	57,374	46,847	47,701	5,576	5,579
Agriculture .....	3,345	3,198	2,344	2,219	794	811	208	168
Nonagricultural industries .....	105,816	107,456	54,394	55,155	46,054	46,890	5,368	5,411
Unemployed .....	4,668	4,309	1,949	1,840	1,886	1,655	833	814
Unemployment rate .....	4.1	3.7	3.3	3.1	3.9	3.4	13.0	12.7
Not in labor force .....	54,958	55,464	16,955	17,323	32,462	32,302	5,542	5,839
<b>Black</b>								
Civilian noninstitutional population .....	23,728	24,117	9,445	9,608	11,882	12,075	2,400	2,434
Civilian labor force .....	15,370	15,624	6,888	7,004	7,578	7,742	904	878
Percent of population .....	64.8	64.8	72.9	72.9	63.8	64.1	37.6	36.1
Employed .....	13,796	14,208	6,294	6,469	6,905	7,105	597	634
Agriculture .....	108	111	89	95	16	14	3	2
Nonagricultural industries .....	13,689	14,097	6,205	6,374	6,889	7,091	594	632
Unemployed .....	1,574	1,416	594	535	673	637	306	244
Unemployment rate .....	10.2	9.1	8.6	7.6	8.9	8.2	33.9	27.8
Not in labor force .....	8,358	8,493	2,557	2,603	4,304	4,333	1,497	1,556

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-15. 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	October 1997									
	Civilian noninstitutional population	Civilian labor force								Percent of labor force
		Total	Percent of population	Employed			Unemployed			
				Total	Full time	Part time	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	18,065	8,773	48.6	7,890	1,616	6,275	883	196	687	10.1
16 to 19 years .....	12,092	5,072	41.9	4,396	447	3,949	676	127	549	13.3
20 to 24 years .....	5,974	3,701	61.9	3,494	1,168	2,326	207	69	137	5.6
High school .....	8,713	3,465	39.8	2,946	199	2,747	520	93	426	15.0
College .....	9,352	5,308	56.8	4,945	1,417	3,528	363	103	261	6.8
Full-time students .....	7,852	3,999	50.9	3,685	625	3,060	315	82	233	7.9
Part-time students .....	1,500	1,308	87.2	1,260	792	468	48	20	28	3.7
Men, 16 to 24 years .....	9,032	4,293	47.5	3,773	840	2,933	520	123	397	12.1
16 to 19 years .....	6,153	2,591	42.1	2,217	252	1,965	374	71	304	14.4
20 to 24 years .....	2,879	1,701	59.1	1,556	587	969	145	52	94	8.5
High school .....	4,599	1,882	40.9	1,597	122	1,475	285	57	228	15.1
College .....	4,433	2,411	54.4	2,176	718	1,458	235	65	169	9.7
Full-time students .....	3,735	1,771	47.4	1,572	288	1,285	199	56	143	11.2
Part-time students .....	698	640	91.6	603	430	174	36	9	27	5.8
Women, 16 to 24 years .....	9,034	4,481	49.6	4,118	778	3,342	363	73	290	8.1
16 to 19 years .....	5,938	2,481	41.8	2,179	195	1,984	302	56	246	12.2
20 to 24 years .....	3,095	2,000	64.6	1,938	581	1,357	61	18	44	3.1
High school .....	4,115	1,583	38.5	1,349	77	1,272	235	36	199	14.8
College .....	4,919	2,897	58.9	2,769	699	2,070	128	37	91	4.4
Full-time students .....	4,117	2,228	54.1	2,112	337	1,775	118	26	90	5.2
Part-time students .....	802	669	83.3	857	362	295	12	11	1	1.8
<b>White</b>										
Total, 16 to 24 years .....	14,343	7,461	52.0	6,816	1,335	5,481	646	114	532	8.7
16 to 19 years .....	9,554	4,371	45.7	3,667	367	3,299	504	78	426	11.5
20 to 24 years .....	4,789	3,091	64.5	2,949	967	1,982	142	36	106	4.6
Men .....	7,215	3,678	51.0	3,281	691	2,590	397	77	319	10.8
Women .....	7,128	3,784	53.1	3,535	643	2,892	249	36	213	6.6
High school .....	6,732	2,940	43.7	2,571	153	2,418	369	50	319	12.6
College .....	7,611	4,521	59.4	4,245	1,182	3,063	276	63	213	6.1
Full-time students .....	6,379	3,407	53.4	3,187	516	2,651	240	51	189	7.0
Part-time students .....	1,232	1,114	90.4	1,078	665	412	37	12	24	3.3
<b>Black</b>										
Total, 16 to 24 years .....	2,592	914	35.3	716	209	507	198	79	120	21.7
16 to 19 years .....	1,855	525	28.3	387	60	327	138	44	94	26.3
20 to 24 years .....	737	389	52.8	329	149	180	60	34	26	15.5
Men .....	1,234	412	33.4	315	108	207	97	43	54	23.8
Women .....	1,358	502	37.0	401	101	300	101	36	66	20.2
High school .....	1,487	411	27.7	287	27	261	124	40	64	30.2
College .....	1,104	503	45.5	429	182	246	74	39	35	14.8
Full-time students .....	928	376	40.8	314	90	223	64	32	33	17.0
Part-time students .....	176	124	70.6	115	92	23	10	7	2	7.9
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,041	834	40.9	724	205	519	110	27	84	13.2
16 to 19 years .....	1,497	482	30.9	372	62	311	90	19	71	19.5
20 to 24 years .....	544	372	68.3	352	144	208	20	8	12	5.4
Men .....	1,044	458	43.7	371	126	245	65	21	64	16.6
Women .....	998	376	37.9	353	79	274	25	6	19	6.7
High school .....	1,189	318	26.8	243	47	196	76	10	68	23.8
College .....	653	516	60.5	481	156	323	34	17	16	6.7
Full-time students .....	632	334	52.9	308	69	237	29	14	15	8.6
Part-time students .....	221	181	82.1	176	89	86	5	3	3	3.0

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-15. 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	October 1997									
	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, 18 to 24 years .....	14,888	12,156	81.7	10,874	9,045	1,829	1,282	1,185	97	10.5
18 to 19 years .....	3,392	2,455	72.4	2,023	1,484	559	432	394	39	17.6
20 to 24 years .....	11,496	9,701	84.4	8,851	7,581	1,270	850	792	56	6.8
Less than a high school diploma .....	3,681	2,435	66.2	1,952	1,512	440	484	461	23	19.9
High school graduates, no college .....	8,641	5,609	64.5	5,006	4,112	894	603	557	47	10.8
Less than a bachelor's degree .....	3,208	2,829	88.2	2,663	2,279	384	166	137	28	5.9
College graduates .....	1,359	1,283	94.4	1,253	1,142	111	30	31	-	2.3
Men, 16 to 24 years .....	7,584	6,742	88.9	6,039	5,314	725	703	672	30	10.4
18 to 19 years .....	1,757	1,393	79.3	1,144	899	244	249	237	12	17.9
20 to 24 years .....	5,827	5,349	91.8	4,896	4,415	481	454	436	18	8.5
Less than a high school diploma .....	1,986	1,574	79.3	1,296	1,064	232	278	271	7	17.7
High school graduates, no college .....	3,475	3,183	91.6	2,864	2,528	339	319	308	11	10.0
Less than a bachelor's degree .....	1,521	1,404	92.3	1,315	1,207	109	88	77	12	6.3
College graduates .....	602	581	96.5	564	518	45	18	18	-	3.0
Women, 18 to 24 years .....	7,304	5,414	74.1	4,834	3,731	1,103	580	513	67	10.7
18 to 19 years .....	1,635	1,063	65.0	879	565	315	183	157	28	17.3
20 to 24 years .....	5,669	4,351	76.8	3,955	3,168	789	396	356	40	9.1
Less than a high school diploma .....	1,695	881	50.8	656	449	207	206	190	15	23.9
High school graduates, no college .....	3,186	2,426	76.8	2,141	1,586	555	285	249	36	11.7
Less than a bachelor's degree .....	1,687	1,425	84.5	1,348	1,072	276	77	61	16	5.4
College graduates .....	757	702	92.7	689	624	66	12	13	-	1.8
<b>White</b>										
Total, 18 to 24 years .....	11,914	9,985	83.8	9,099	7,608	1,491	886	837	49	8.9
18 to 19 years .....	2,877	2,022	70.0	1,712	1,271	441	310	297	13	15.3
20 to 24 years .....	9,236	7,962	86.2	7,387	6,336	1,050	576	540	35	7.2
Men .....	6,179	5,657	91.6	5,141	4,563	578	516	496	20	9.1
Women .....	5,735	4,327	75.5	3,957	3,044	913	370	341	29	8.5
Less than a high school diploma .....	2,812	1,957	69.6	1,807	1,264	343	349	336	13	17.6
High school graduates, no college .....	5,334	4,603	86.3	4,194	3,472	722	409	387	22	8.9
Less than a bachelor's degree .....	2,620	2,336	89.1	2,232	1,899	333	104	90	14	4.5
College graduates .....	1,147	1,090	95.0	1,065	973	92	24	25	-	2.2
<b>Black</b>										
Total, 16 to 24 years .....	2,363	1,705	72.2	1,347	1,094	254	358	311	47	21.0
18 to 19 years .....	579	353	60.9	247	150	96	106	81	25	30.0
20 to 24 years .....	1,784	1,353	75.8	1,101	943	158	252	230	22	18.6
Men .....	1,127	847	75.2	682	570	111	166	155	11	19.6
Women .....	1,236	858	69.4	666	523	143	192	156	36	22.4
Less than a high school diploma .....	698	372	53.3	247	188	80	124	115	9	33.4
High school graduates, no college .....	1,082	831	76.8	656	512	143	175	153	22	21.1
Less than a bachelor's degree .....	463	386	83.4	328	311	17	57	42	15	14.9
College graduates .....	121	117	96.9	118	103	13	1	1	-	.9
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,662	2,046	76.9	1,749	1,472	277	297	294	3	14.5
18 to 19 years .....	644	442	68.7	354	284	70	68	69	-	20.0
20 to 24 years .....	2,018	1,604	79.5	1,395	1,188	207	209	205	4	13.0
Men .....	1,470	1,315	89.4	1,136	992	144	179	177	2	13.6
Women .....	1,191	731	61.4	612	479	133	119	117	1	16.2
Less than a high school diploma .....	1,219	822	67.4	678	569	109	144	144	1	17.6
High school graduates, no college .....	1,029	867	84.3	743	613	130	124	125	-	14.3
Less than a bachelor's degree .....	341	297	87.1	267	232	35	29	25	5	9.9
College graduates .....	73	60	( <sup>1</sup> )	61	58	2	-	-	-	( <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 1977, data reflect revised population controls used in the household survey.

A-16. Employed and unemployed full- and part-time workers by age, sex, and race

(In thousands)

Age, sex, and race	October 1997									
	Employed <sup>1</sup>								Unemployed	
	Full-time workers				Part-time workers				Looking for full-time work	Looking for part-time work
	Total	At work		Not at work	Total	At work <sup>2</sup>		Not at work		
35 hours or more		1 to 34 hours for economic or noneconomic reasons	Part time for economic reasons			Part time for noneconomic reasons				
<b>TOTAL</b>										
Total, 16 years and over .....	107,146	92,240	11,901	3,005	23,525	2,664	19,662	1,200	4,705	1,290
16 to 19 years .....	1,911	1,586	287	39	4,508	265	4,101	142	520	588
16 to 17 years .....	188	142	42	4	2,452	42	2,301	109	103	377
18 to 19 years .....	1,724	1,444	245	35	2,056	224	1,800	32	417	211
20 years and over .....	105,234	90,654	11,614	2,966	19,017	2,398	15,561	1,058	4,185	701
20 to 24 years .....	8,749	7,751	808	191	3,596	525	2,992	79	861	195
25 years and over .....	96,485	82,903	10,807	2,775	15,422	1,874	12,569	979	3,323	506
25 to 54 years .....	84,413	72,994	9,176	2,243	11,081	1,625	8,823	633	3,012	364
55 years and over .....	12,072	9,909	1,631	532	4,341	249	3,746	346	311	122
<b>Men, 16 years and over .....</b>	<b>62,643</b>	<b>55,235</b>	<b>5,831</b>	<b>1,577</b>	<b>7,572</b>	<b>1,161</b>	<b>6,013</b>	<b>399</b>	<b>2,564</b>	<b>565</b>
16 to 19 years .....	1,152	963	163	26	2,209	141	1,987	81	308	316
16 to 17 years .....	61,491	54,272	5,668	1,552	5,364	1,020	4,025	318	2,257	249
18 to 19 years .....	5,002	4,521	380	100	1,450	249	1,171	29	487	111
20 years and over .....	56,489	49,751	5,287	1,451	3,914	771	2,854	289	1,769	138
20 to 24 years .....	49,093	43,523	4,418	1,152	2,143	666	1,360	118	1,575	83
25 years and over .....	7,396	6,227	870	299	1,771	106	1,494	171	194	55
25 to 54 years .....	44,503	37,005	6,070	1,427	15,953	1,503	13,649	801	2,141	724
55 years and over .....	760	623	123	13	2,299	125	2,114	61	213	272
<b>Women, 16 years and over .....</b>	<b>43,743</b>	<b>36,382</b>	<b>5,947</b>	<b>1,414</b>	<b>13,654</b>	<b>1,378</b>	<b>11,535</b>	<b>740</b>	<b>1,928</b>	<b>452</b>
16 to 19 years .....	3,747	3,230	427	90	2,146	276	1,820	50	374	84
16 to 17 years .....	39,996	33,152	5,520	1,324	11,508	1,102	9,715	690	1,554	368
18 to 19 years .....	35,321	29,471	4,758	1,091	8,938	959	7,463	515	1,437	301
20 years and over .....	4,675	3,681	761	233	2,570	143	2,252	175	117	67
20 to 24 years .....										
25 years and over .....										
25 to 54 years .....										
55 years and over .....										
<b>White</b>										
Men, 16 years and over .....	53,828	47,497	5,010	1,322	6,487	873	5,262	351	1,878	450
16 to 19 years .....	1,004	848	137	19	1,937	111	1,753	72	231	256
16 to 17 years .....	52,824	46,649	4,873	1,303	4,550	762	3,509	279	1,646	193
18 to 19 years .....	4,251	3,869	290	92	1,231	193	1,016	22	342	83
20 years and over .....	48,574	42,780	4,583	1,211	3,319	569	2,493	257	1,304	111
20 to 24 years .....	42,015	37,246	3,811	958	1,686	480	1,121	86	1,141	69
25 years and over .....	6,558	5,534	772	252	1,633	90	1,372	171	163	41
25 to 54 years .....										
55 years and over .....										
Women, 16 years and over .....	36,307	30,148	5,026	1,133	14,032	1,156	12,132	744	1,452	530
16 to 19 years .....	635	520	107	8	2,003	84	1,866	53	143	183
16 to 17 years .....	35,672	29,628	4,919	1,125	12,029	1,072	10,265	691	1,308	347
18 to 19 years .....	3,053	2,666	318	69	1,802	226	1,533	43	234	59
20 years and over .....	32,619	26,962	4,601	1,058	10,227	846	8,733	648	1,074	289
20 to 24 years .....	28,563	23,765	3,929	868	7,939	733	6,726	480	997	241
25 years and over .....	4,056	3,196	672	188	2,288	113	2,007	168	77	48
25 to 54 years .....										
55 years and over .....										
<b>Black</b>										
Men, 16 years and over .....	6,069	5,267	585	197	717	216	465	36	557	85
16 to 19 years .....	120	95	21	4	197	29	161	7	64	42
16 to 17 years .....	5,949	5,192	565	192	520	187	303	29	492	43
18 to 19 years .....	559	478	75	6	121	42	74	5	134	23
20 years and over .....	5,390	4,714	490	186	399	146	229	24	359	20
20 to 24 years .....	4,876	4,310	419	148	292	133	135	24	337	9
25 years and over .....	514	405	71	38	107	13	95	-	22	11
25 to 54 years .....										
55 years and over .....										
Women, 16 years and over .....	6,074	5,054	773	246	1,348	290	1,017	42	616	159
16 to 19 years .....	91	74	12	5	226	37	164	5	61	77
16 to 17 years .....	5,983	4,981	761	241	1,122	253	832	37	554	83
18 to 19 years .....	533	427	90	16	217	39	172	5	130	25
20 years and over .....	5,450	4,554	671	225	905	214	660	31	424	58
20 to 24 years .....	4,973	4,179	605	190	685	188	471	26	388	43
25 years and over .....	477	375	66	35	221	26	169	6	36	15
25 to 54 years .....										
55 years and over .....										

<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 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-17. Employed persons by occupation, sex, and age**

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
Total .....	128,439	130,671	69,099	70,215	65,854	66,855	59,340	60,456	56,179	57,397
Managerial and professional specialty .....	37,212	38,080	19,073	19,409	18,961	19,271	18,139	18,671	17,992	18,541
Executive, administrative, and managerial .....	17,972	18,730	9,981	10,335	9,945	10,279	7,990	8,395	7,939	8,355
Officials and administrators, public administration .....	683	758	351	400	352	400	332	358	332	358
Other executive, administrative, and managerial .....	13,042	13,205	7,812	7,901	7,779	7,851	5,231	5,304	5,188	5,269
Management-related occupations .....	4,246	4,767	1,818	2,034	1,814	2,028	2,427	2,733	2,419	2,729
Professional specialty .....	19,240	19,350	9,092	9,074	9,016	8,992	10,148	10,276	10,053	10,186
Engineers .....	1,961	1,990	1,787	1,818	1,786	1,818	175	172	175	172
Mathematical and computer scientists .....	1,386	1,440	967	1,024	963	1,017	420	415	416	415
Natural scientists .....	514	543	330	370	329	370	183	173	183	173
Health diagnosing occupations .....	975	1,045	726	784	726	784	249	262	249	262
Health assessment and treating occupations .....	2,843	2,894	428	421	427	421	2,416	2,474	2,411	2,472
Teachers, college and university .....	884	933	493	515	489	506	391	417	386	411
Teachers, except college and university .....	5,035	4,925	1,298	1,222	1,289	1,207	3,737	3,702	3,682	3,657
Lawyers and judges .....	1,004	976	723	745	723	743	281	231	281	231
Other professional specialty occupations .....	4,638	4,604	2,340	2,174	2,283	2,126	2,298	2,430	2,270	2,392
Technical, sales, and administrative support .....	38,004	38,630	13,574	13,902	12,861	13,165	24,430	24,728	22,798	23,170
Technicians and related support .....	4,085	4,320	1,892	2,073	1,856	2,054	2,193	2,246	2,154	2,222
Health technologists and technicians .....	1,676	1,696	297	311	294	307	1,379	1,365	1,355	1,368
Engineering and science technicians .....	1,226	1,254	935	963	914	955	290	291	285	286
Technicians, except health, engineering, and science .....	1,184	1,370	660	799	647	792	523	571	514	568
Sales occupations .....	15,436	15,870	7,812	7,924	7,352	7,407	7,624	7,947	6,570	6,934
Supervisors and proprietors .....	4,511	4,604	2,803	2,863	2,773	2,844	1,709	1,741	1,684	1,703
Sales representatives, finance and business services .....	2,593	2,684	1,466	1,476	1,459	1,463	1,128	1,208	1,100	1,186
Sales representatives, commodities, except retail .....	1,640	1,622	1,200	1,198	1,189	1,191	440	424	433	414
Sales workers, retail and personal services .....	6,625	6,865	2,329	2,360	1,916	1,884	4,296	4,505	3,304	3,574
Sales-related occupations .....	67	94	15	27	15	25	52	68	49	58
Administrative support, including clerical .....	18,482	18,440	3,869	3,905	3,653	3,704	14,613	14,535	14,074	14,014
Supervisors .....	668	687	279	255	280	253	388	432	380	426
Computer equipment operators .....	411	390	178	169	176	167	233	221	223	217
Secretaries, stenographers, and typists .....	3,879	3,726	70	74	68	72	3,808	3,652	3,702	3,571
Financial records processing .....	2,283	2,111	206	164	204	156	2,077	1,947	2,063	1,934
Mail and message distributing .....	965	948	580	611	558	591	384	337	376	333
Other administrative support, including clerical .....	10,277	10,579	2,556	2,632	2,367	2,464	7,722	7,946	7,330	7,533
Service occupations .....	17,208	17,657	6,899	7,259	5,930	6,232	10,309	10,398	9,207	9,358
Private household .....	856	785	42	44	33	37	814	741	744	688
Protective service .....	2,156	2,240	1,779	1,836	1,752	1,788	377	404	360	386
Service, except private household and protective .....	14,195	14,632	5,078	5,378	4,146	4,407	9,117	9,254	8,103	8,284
Food service .....	6,033	6,171	2,587	2,729	1,868	1,948	3,446	3,442	2,735	2,759
Health service .....	2,375	2,554	273	301	268	286	2,103	2,253	2,016	2,165
Cleaning and building service .....	3,039	3,092	1,695	1,799	1,574	1,688	1,343	1,292	1,274	1,238
Personal service .....	2,748	2,815	522	549	436	484	2,225	2,266	2,078	2,123
Precision production, craft, and repair .....	13,779	14,110	12,502	12,812	12,211	12,532	1,277	1,298	1,244	1,279
Mechanics and repairers .....	4,558	4,827	4,364	4,652	4,237	4,570	195	175	191	175
Construction trades .....	5,182	5,197	5,058	5,077	4,952	4,947	124	120	122	120
Other precision production, craft, and repair .....	4,039	4,086	3,080	3,083	3,022	3,016	959	1,003	931	985
Operators, fabricators, and laborers .....	18,552	18,696	14,061	14,026	13,114	13,035	4,491	4,669	4,282	4,394
Machine operators, assemblers, and inspectors .....	7,984	8,104	5,007	5,032	4,849	4,832	2,977	3,072	2,903	2,971
Transportation and material moving occupations .....	5,462	5,548	4,914	4,979	4,832	4,891	548	569	534	548
Motor vehicle operators .....	4,204	4,260	3,718	3,746	3,641	3,679	487	514	473	495
Other transportation and material moving occupations .....	1,258	1,288	1,197	1,233	1,191	1,212	61	55	60	53
Handlers, equipment cleaners, helpers, and laborers .....	5,106	5,044	4,140	4,015	3,433	3,312	967	1,029	845	875
Construction laborers .....	864	859	837	826	779	772	27	33	28	32
Other handlers, equipment cleaners, helpers, and laborers .....	4,242	4,185	3,303	3,189	2,655	2,540	939	996	817	843
Farming, forestry, and fishing .....	3,684	3,499	2,990	2,808	2,777	2,621	694	691	656	654
Farm operators and managers .....	1,373	1,380	1,058	1,047	1,048	1,043	315	333	314	332
Other farming, forestry, and fishing occupations .....	2,311	2,119	1,932	1,760	1,729	1,578	379	359	342	321

NOTE: Beginning in January 1977, data reflect population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-18. Employed persons by occupation, race, and sex**

(Percent distribution)

Occupation and race	Total		Men		Women	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	128,439	130,671	69,099	70,215	59,340	60,456
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	29.0	29.1	27.6	27.6	30.6	30.9
Executive, administrative, and managerial .....	14.0	14.3	14.4	14.7	13.5	13.9
Professional specialty .....	15.0	14.8	13.2	12.9	17.1	17.0
Technical, sales, and administrative support .....	29.6	29.6	19.6	19.8	41.2	40.9
Technicians and related support .....	3.2	3.3	2.7	3.0	3.7	3.7
Sales occupations .....	12.0	12.1	11.3	11.3	12.8	13.1
Administrative support, including clerical .....	14.4	14.1	5.6	5.6	24.6	24.0
Service occupations .....	13.4	13.5	10.0	10.3	17.4	17.2
Private household .....	.7	.6	.1	.1	1.4	1.2
Protective service .....	1.7	1.7	2.6	2.6	.6	.7
Service, except private household and protective .....	11.1	11.2	7.3	7.7	15.4	15.3
Precision production, craft, and repair .....	10.7	10.8	18.1	18.2	2.2	2.1
Operators, fabricators, and laborers .....	14.4	14.3	20.3	20.0	7.6	7.7
Machine operators, assemblers, and inspectors .....	6.2	6.2	7.2	7.2	5.0	5.1
Transportation and material moving occupations .....	4.3	4.2	7.1	7.1	.9	.9
Handlers, equipment cleaners, helpers, and laborers .....	4.0	3.9	6.0	5.7	1.6	1.7
Farming, forestry, and fishing .....	2.9	2.7	4.3	4.0	1.2	1.1
<b>White</b>						
Total, 16 years and over (thousands) .....	109,162	110,653	59,574	60,315	49,588	50,338
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	29.9	30.1	28.4	28.4	31.6	32.1
Executive, administrative, and managerial .....	14.6	15.0	15.1	15.4	14.0	14.5
Professional specialty .....	15.3	15.1	13.4	13.0	17.6	17.6
Technical, sales, and administrative support .....	29.7	29.9	19.6	20.0	41.8	41.7
Technicians and related support .....	3.2	3.3	2.7	2.9	3.7	3.8
Sales occupations .....	12.4	12.6	11.7	11.8	13.2	13.5
Administrative support, including clerical .....	14.2	14.0	5.2	5.3	24.9	24.4
Service occupations .....	12.3	12.3	9.1	9.3	16.1	16.0
Private household .....	.6	.6	( <sup>1</sup> )	.1	1.3	1.2
Protective service .....	1.6	1.6	2.4	2.5	.5	.5
Service, except private household and protective .....	10.1	10.2	6.6	6.8	14.3	14.3
Precision production, craft, and repair .....	11.2	11.2	18.7	18.8	2.0	2.0
Operators, fabricators, and laborers .....	13.8	13.6	19.4	19.2	7.1	6.9
Machine operators, assemblers, and inspectors .....	5.9	5.9	7.0	7.0	4.6	4.5
Transportation and material moving occupations .....	4.2	4.1	6.9	6.8	.9	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.7	3.6	5.5	5.3	1.6	1.6
Farming, forestry, and fishing .....	3.2	2.9	4.7	4.3	1.3	1.3
<b>Black</b>						
Total, 16 years and over (thousands) .....	13,796	14,208	6,586	6,786	7,210	7,422
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	20.4	20.2	16.9	17.7	23.5	22.6
Executive, administrative, and managerial .....	9.5	9.6	8.5	8.8	10.4	10.4
Professional specialty .....	10.9	10.6	8.4	8.9	13.1	12.2
Technical, sales, and administrative support .....	28.4	28.0	18.6	17.6	37.3	37.5
Technicians and related support .....	2.8	3.0	2.2	2.5	3.2	3.4
Sales occupations .....	9.0	8.9	7.7	7.2	10.2	10.4
Administrative support, including clerical .....	16.7	16.2	8.7	7.9	23.9	23.7
Service occupations .....	22.3	22.4	17.8	18.3	26.3	26.0
Private household .....	1.0	.9	( <sup>1</sup> )	-	1.9	1.6
Protective service .....	3.0	3.1	4.6	4.7	1.5	1.7
Service, except private household and protective .....	18.2	18.3	13.1	13.5	22.9	22.7
Precision production, craft, and repair .....	7.7	8.4	13.6	14.9	2.3	2.4
Operators, fabricators, and laborers .....	20.2	20.0	31.2	29.7	10.2	11.1
Machine operators, assemblers, and inspectors .....	8.3	8.0	9.9	8.9	6.8	7.2
Transportation and material moving occupations .....	5.7	6.1	10.3	11.2	1.5	1.5
Handlers, equipment cleaners, helpers, and laborers .....	6.2	5.8	10.9	9.6	2.0	2.4
Farming, forestry, and fishing .....	1.1	1.1	2.0	1.9	.3	.3

<sup>1</sup> Less than .05 percent.

used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population controls

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-19. Employed persons by industry and occupation**

(In thousands)

Industry	October 1997												
	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 .....	3,372	123	86	43	19	160	-	41	32	13	37	14	2,805
Mining .....	655	87	52	27	8	77	-	1	253	16	113	20	1
Construction .....	8,345	1,313	162	51	67	416	-	27	4,672	117	583	915	20
Manufacturing .....	20,761	2,794	1,916	698	816	1,999	-	270	3,868	6,482	784	1,018	116
Durable goods .....	12,350	1,651	1,252	433	323	1,094	-	142	2,736	3,644	450	518	107
Nondurable goods .....	8,411	1,143	664	265	493	905	-	128	1,132	2,838	335	500	8
Transportation and public utilities .....	9,405	1,268	543	366	309	2,361	-	296	1,272	133	2,319	527	12
Wholesale and retail trade .....	26,891	2,366	517	200	11,259	2,230	-	5,172	1,554	389	1,129	1,976	99
Wholesale trade .....	5,058	542	107	49	2,026	737	-	36	347	158	565	427	64
Retail trade .....	21,833	1,825	410	151	9,233	1,493	-	5,136	1,207	232	563	1,548	35
Finance, insurance, and real estate .....	8,288	2,479	300	178	2,108	2,691	-	323	130	11	9	30	30
Services .....	47,271	6,939	14,816	2,569	1,259	7,265	785	9,126	2,144	929	541	513	384
Private households .....	899	7	2	5	-	3	785	59	2	1	-	14	21
Other service industries .....	46,372	6,932	14,814	2,564	1,259	7,262	-	9,067	2,142	928	541	499	363
Professional services .....	31,637	4,279	13,074	2,132	225	5,272	-	5,615	391	217	283	74	77
Public administration .....	5,682	1,361	957	188	27	1,240	-	1,615	184	14	32	31	33

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

used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population controls



A-20. Employed persons in agriculture and nonagricultural industries by age, sex, and class of worker

(In thousands)

Age and sex	October 1997									
	Agriculture			Nonagricultural industries						
	Wage and salary workers	Self-employed workers	Unpaid family workers	Wage and salary workers					Self-employed workers	Unpaid family workers
				Total	Private industries			Government		
Total					Private household workers	Other private industries				
Total, 16 years and over .....	1,805	1,506	61	118,260	100,123	893	99,230	18,137	8,948	90
16 to 19 years .....	150	10	14	6,169	5,902	68	5,834	267	69	7
16 to 17 years .....	69	5	12	2,516	2,416	24	2,391	101	36	1
18 to 19 years .....	81	5	2	3,653	3,486	44	3,443	166	33	6
20 to 24 years .....	261	14	11	11,857	10,925	109	10,816	932	194	7
25 to 34 years .....	528	209	6	29,679	26,001	123	25,877	3,679	1,542	15
35 to 44 years .....	416	355	6	32,989	27,630	210	27,420	5,360	2,645	24
45 to 54 years .....	254	311	6	24,064	18,675	171	18,504	5,389	2,418	27
55 to 64 years .....	130	324	9	10,784	8,646	132	8,514	2,139	1,391	7
65 years and over .....	66	281	10	2,717	2,345	81	2,264	372	689	3
Men, 16 years and over .....	1,369	1,109	21	62,258	54,369	87	54,282	7,889	5,441	18
16 to 19 years .....	118	10	7	3,186	3,084	15	3,069	102	34	-
16 to 17 years .....	49	5	5	1,314	1,269	5	1,263	46	18	1
18 to 19 years .....	69	5	2	1,871	1,815	10	1,806	56	16	-
20 to 24 years .....	208	14	5	6,121	5,722	14	5,708	399	104	-
25 to 34 years .....	396	166	1	15,952	14,339	12	14,328	1,613	898	2
35 to 44 years .....	306	272	2	17,407	15,177	15	15,161	2,231	1,613	4
45 to 54 years .....	187	212	2	12,342	9,992	13	9,979	2,349	1,470	5
55 to 64 years .....	97	217	1	5,688	4,683	3	4,679	1,005	866	-
65 years and over .....	56	218	3	1,562	1,373	15	1,358	189	457	2
Women, 16 years and over .....	437	397	41	56,002	45,754	806	44,947	10,249	3,507	73
16 to 19 years .....	32	1	7	2,983	2,818	53	2,765	165	35	-
16 to 17 years .....	20	-	-	1,202	1,147	19	1,128	55	19	-
18 to 19 years .....	12	-	-	1,781	1,671	34	1,637	110	17	1
20 to 24 years .....	53	-	7	5,736	5,203	95	5,108	533	90	7
25 to 34 years .....	132	43	5	13,727	11,661	112	11,550	2,066	644	14
35 to 44 years .....	110	83	4	15,582	12,453	195	12,258	3,129	1,032	20
45 to 54 years .....	67	99	4	11,722	8,683	158	8,525	3,040	948	22
55 to 64 years .....	32	107	7	5,096	3,963	129	3,835	1,133	525	8
65 years and over .....	11	63	6	1,155	972	65	907	183	231	2

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-21. Persons at work in agriculture and nonagricultural industries by hours of work**

Hours of work	October 1997					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	126,466	3,254	123,213	100.0	100.0	100.0
1 to 34 hours .....	33,399	995	32,404	26.4	30.6	26.3
1 to 4 hours .....	1,334	98	1,236	1.1	3.0	1.0
5 to 14 hours .....	4,970	194	4,776	3.9	6.0	3.9
15 to 29 hours .....	15,834	427	15,407	12.5	13.1	12.5
30 to 34 hours .....	11,260	275	10,985	8.9	8.5	8.9
35 hours and over .....	93,068	2,259	90,809	73.6	69.4	73.7
35 to 39 hours .....	8,660	140	8,520	6.8	4.3	6.9
40 hours .....	44,212	715	43,497	35.0	22.0	35.3
41 hours and over .....	40,196	1,404	38,792	31.8	43.2	31.5
41 to 48 hours .....	14,496	240	14,256	11.5	7.4	11.6
49 to 59 hours .....	14,933	345	14,588	11.8	10.6	11.8
60 hours and over .....	10,767	819	9,948	8.5	25.2	8.1
Average hours, total at work .....	39.4	43.7	39.2	-	-	-
Average hours, persons who usually work full time .....	43.4	50.9	43.2	-	-	-

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**A-22. 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	October 1997					
	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 .....	33,399	11,901	21,497	32,404	11,606	20,798
Economic reasons .....	3,602	1,106	2,496	3,439	1,033	2,406
Slack work or business conditions .....	1,983	854	1,128	1,885	812	1,074
Could only find part-time work .....	1,343	-	1,343	1,312	-	1,312
Seasonal work .....	67	43	24	41	20	21
Job started or ended during week .....	209	209	-	200	200	-
Noneconomic reasons .....	29,796	10,795	19,001	28,965	10,574	18,392
Child-care problems .....	857	73	785	852	73	780
Other family or personal obligations .....	5,618	707	4,911	5,463	681	4,782
Health or medical limitations .....	727	-	727	673	-	673
In school or training .....	6,877	107	6,770	6,743	108	6,635
Retired or Social Security limit on earnings .....	1,927	-	1,927	1,770	-	1,770
Vacation or personal day .....	3,597	3,597	-	3,514	3,514	-
Holiday, legal or religious .....	3,454	3,454	-	3,427	3,427	-
Weather-related curtailment .....	211	211	-	170	170	-
All other reasons .....	6,529	2,647	3,882	6,353	2,602	3,751
Average hours:						
Economic reasons .....	23.3	24.5	22.7	23.3	24.5	22.7
Other reasons .....	22.1	26.8	19.4	22.2	26.9	19.5

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-23. 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	October 1997							
	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 .....	123,213	32,404	3,439	10,574	18,392	90,809	39.2	43.2
Wage and salary workers .....	114,652	29,513	3,059	9,937	16,517	85,139	39.2	43.0
Mining .....	598	41	1	27	13	557	50.5	51.3
Construction .....	6,668	1,207	242	636	328	5,461	41.4	42.8
Manufacturing .....	19,818	2,478	260	1,452	765	17,341	42.5	43.5
Durable goods .....	11,815	1,345	117	880	348	10,470	42.9	43.6
Nondurable goods .....	8,003	1,132	143	572	417	6,871	42.0	43.3
Transportation and public utilities .....	8,581	1,501	229	777	495	7,080	42.5	44.2
Wholesale and retail trade .....	24,430	8,240	966	1,222	6,052	16,190	37.0	43.6
Finance, insurance, and real estate .....	7,447	1,747	108	914	725	5,699	39.6	41.8
Service industries .....	41,642	12,809	1,214	3,728	7,867	28,833	37.7	42.5
Private households .....	858	487	74	76	337	371	29.6	40.4
All other industries .....	40,784	12,322	1,140	3,652	7,530	28,462	37.8	42.5
Public administration .....	5,467	1,490	39	1,180	270	3,978	39.8	40.9
Self-employed workers .....	8,470	2,845	371	637	1,837	5,625	39.4	46.5
Unpaid family workers .....	91	47	9	-	38	44	31.6	( <sup>1</sup> )

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

used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population controls

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-24. 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	October 1997							
	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 .....	123,213	32,404	3,439	10,574	18,392	90,809	39.2	43.2
16 to 19 years .....	6,064	4,449	294	226	3,929	1,615	23.8	39.0
16 to 17 years .....	2,440	2,295	48	35	2,212	144	17.0	33.9
18 to 19 years .....	3,624	2,153	246	191	1,716	1,471	28.4	39.5
20 years and over .....	117,149	27,955	3,145	10,348	14,463	89,193	40.0	43.3
20 to 24 years .....	11,796	4,121	613	657	2,851	7,675	35.7	41.8
25 years and over .....	105,353	23,835	2,531	9,691	11,612	81,518	40.5	43.4
25 to 54 years .....	90,599	18,691	2,196	8,241	8,255	71,907	41.1	43.5
55 years and over .....	14,755	5,143	336	1,450	3,357	9,611	36.9	42.7
<b>Men, 16 years and over</b> .....	65,808	12,146	1,656	4,996	5,493	53,663	42.3	44.8
16 to 19 years .....	3,119	2,159	165	112	1,882	960	25.2	39.7
16 to 17 years .....	1,269	1,183	37	27	1,120	86	17.9	33.8
18 to 19 years .....	1,849	976	128	85	763	874	30.3	40.4
20 years and over .....	62,689	9,987	1,492	4,884	3,611	52,703	43.1	44.9
20 to 24 years .....	6,102	1,681	303	279	1,099	4,421	38.0	43.0
25 years and over .....	56,588	8,306	1,189	4,605	2,512	48,282	43.7	45.1
25 to 54 years .....	48,465	6,109	1,029	3,849	1,231	42,355	44.3	45.2
55 years and over .....	8,123	2,197	160	756	1,281	5,926	39.7	44.0
<b>Women, 16 years and over</b> .....	57,404	20,258	1,782	5,578	12,898	37,146	35.8	41.0
16 to 19 years .....	2,945	2,290	130	114	2,046	655	22.4	38.0
16 to 17 years .....	1,170	1,112	11	8	1,093	58	16.1	( <sup>1</sup> )
18 to 19 years .....	1,774	1,177	118	105	954	597	26.5	38.3
20 years and over .....	54,460	17,969	1,653	5,464	10,852	36,491	36.5	41.1
20 to 24 years .....	5,694	2,440	310	378	1,751	3,254	33.3	40.4
25 years and over .....	48,766	15,529	1,342	5,086	9,101	33,237	36.9	41.1
25 to 54 years .....	42,134	12,582	1,166	4,392	7,024	29,552	37.4	41.2
55 years and over .....	6,632	2,947	176	694	2,077	3,685	33.5	40.6
<b>Race</b>								
White, 16 years and over .....	104,012	27,764	2,617	8,936	16,211	76,248	39.3	43.4
Men .....	56,349	10,358	1,268	4,301	4,789	45,991	42.5	45.0
Women .....	47,663	17,406	1,349	4,635	11,422	30,257	35.6	41.1
Black, 16 years and over .....	13,585	3,264	650	1,182	1,432	10,321	38.6	41.5
Men .....	6,466	1,226	295	489	442	5,240	40.7	43.0
Women .....	7,119	2,038	355	693	989	5,081	36.6	40.1
<b>Marital status</b>								
<b>Men, 16 years and over:</b>								
Married, spouse present .....	40,487	5,653	645	3,310	1,698	34,834	44.2	45.4
Widowed, divorced, or separated .....	7,631	1,195	241	578	377	6,436	43.1	44.7
Single (never married) .....	17,689	5,297	771	1,108	3,419	12,392	37.6	43.0
<b>Women, 16 years and over:</b>								
Married, spouse present .....	31,318	10,983	701	3,201	7,080	20,336	35.8	40.8
Widowed, divorced, or separated .....	11,635	3,313	444	1,215	1,655	8,321	38.0	41.5
Single (never married) .....	14,451	5,962	637	1,162	4,164	8,489	33.9	41.2

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

NOTE: Beginning in 1997, data reflect revised population controls used in the

household survey.

A-25. Persons at work in nonfarm occupations by sex and usual full- or part-time status

(Numbers in thousands)

Occupation and sex	October 1997							
	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> .....	123,101	32,394	3,431	10,538	18,425	90,707	39.3	43.2
Managerial and professional specialty .....	36,979	8,010	504	3,773	3,734	28,969	41.7	44.5
Executive, administrative, and managerial .....	18,129	3,078	176	1,763	1,139	15,051	43.5	45.2
Professional specialty .....	18,850	4,933	328	2,010	2,595	13,918	39.9	43.6
Technical, sales, and administrative support .....	37,365	11,514	856	3,241	7,418	25,851	37.4	42.2
Technicians and related support .....	4,195	945	35	377	533	3,251	39.4	42.3
Sales occupations .....	15,389	4,749	426	853	3,470	10,639	38.5	44.8
Administrative support, including clerical .....	17,781	5,820	395	2,010	3,415	11,961	35.9	40.2
Service occupations .....	17,000	7,054	981	1,121	4,952	9,946	34.3	41.8
Private household .....	756	445	63	71	311	311	29.0	39.8
Protective service .....	2,148	411	31	181	200	1,736	42.9	45.6
Service, except private household and protective .....	14,096	6,198	887	869	4,442	7,898	33.3	41.1
Precision production, craft, and repair .....	13,678	2,027	380	1,081	566	11,651	42.4	43.6
Operators, fabricators, and laborers .....	18,079	3,789	711	1,322	1,756	14,290	40.4	43.1
Machine operators, assemblers, and inspectors .....	7,846	1,218	199	564	455	6,628	40.8	42.2
Transportation and material moving occupations .....	5,360	961	185	350	425	4,400	43.7	46.2
Handlers, equipment cleaners, helpers, and laborers .....	4,873	1,611	327	408	876	3,262	36.2	40.9
Men, 16 years and over <sup>1</sup> .....	65,518	12,038	1,639	4,954	5,446	53,479	42.3	44.8
Managerial and professional specialty .....	18,896	2,906	232	1,713	961	15,990	44.8	46.4
Executive, administrative, and managerial .....	10,021	1,253	108	794	351	8,768	46.0	47.2
Professional specialty .....	8,878	1,653	124	919	609	7,223	43.3	45.5
Technical, sales, and administrative support .....	13,557	2,705	216	909	1,581	10,851	41.8	45.1
Technicians and related support .....	2,018	314	5	169	140	1,704	41.7	43.5
Sales occupations .....	7,749	1,424	106	361	958	6,325	43.3	47.0
Administrative support, including clerical .....	3,789	967	105	380	482	2,822	38.6	42.2
Service occupations .....	7,010	2,175	354	455	1,366	4,835	37.6	43.3
Private household .....	44	16	6	4	6	28	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,761	315	21	157	137	1,446	44.0	46.2
Service, except private household and protective .....	5,205	1,844	327	294	1,223	3,361	35.5	42.0
Precision production, craft, and repair .....	12,431	1,721	340	959	423	10,710	42.8	43.8
Operators, fabricators, and laborers .....	13,624	2,532	498	918	1,116	11,092	41.5	43.9
Machine operators, assemblers, and inspectors .....	4,905	584	76	300	208	4,321	42.2	43.2
Transportation and material moving occupations .....	4,824	731	163	295	273	4,093	44.7	46.5
Handlers, equipment cleaners, helpers, and laborers .....	3,895	1,217	259	323	635	2,678	36.8	41.2
Women, 16 years and over <sup>1</sup> .....	57,583	20,356	1,792	5,584	12,980	37,228	35.8	41.0
Managerial and professional specialty .....	18,083	5,104	272	2,060	2,773	12,978	38.4	42.2
Executive, administrative, and managerial .....	8,108	1,825	68	969	788	6,283	40.4	42.7
Professional specialty .....	9,975	3,280	203	1,091	1,985	6,695	36.8	41.7
Technical, sales, and administrative support .....	23,808	8,809	640	2,332	5,837	15,000	34.9	40.3
Technicians and related support .....	2,178	631	30	208	393	1,547	37.2	40.9
Sales occupations .....	7,639	3,326	320	493	2,512	4,314	33.7	41.6
Administrative support, including clerical .....	13,992	4,853	290	1,631	2,932	9,139	35.2	39.5
Service occupations .....	9,990	4,879	627	666	3,586	5,111	32.0	40.5
Private household .....	712	429	57	66	305	283	28.5	39.3
Protective service .....	387	97	10	24	62	291	37.8	42.6
Service, except private household and protective .....	8,891	4,354	560	575	3,219	4,537	32.0	40.4
Precision production, craft, and repair .....	1,247	305	41	122	143	941	38.7	41.5
Operators, fabricators, and laborers .....	4,455	1,258	213	404	640	3,197	37.1	40.5
Machine operators, assemblers, and inspectors .....	2,941	634	123	264	247	2,307	38.6	40.5
Transportation and material moving occupations .....	536	230	22	55	152	307	35.2	42.5
Handlers, equipment cleaners, helpers, and laborers .....	978	394	68	85	242	584	33.7	39.6

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

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

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-26. 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	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
Total, 16 years and over .....	3,337	3,130	4.6	4.3	3,240	2,865	5.2	4.5
Married, spouse present .....	1,148	1,003	2.6	2.3	1,212	975	3.6	2.8
Widowed, divorced, or separated .....	431	361	5.2	4.2	653	621	5.2	4.8
Single (never married) .....	1,758	1,765	8.8	8.6	1,375	1,268	8.6	7.8
White, 16 years and over .....	2,447	2,328	3.9	3.7	2,222	1,982	4.3	3.8
Married, spouse present .....	926	814	2.4	2.1	1,003	815	3.4	2.7
Widowed, divorced, or separated .....	335	282	4.9	4.0	472	424	4.7	4.2
Single (never married) .....	1,186	1,231	7.3	7.4	747	743	6.2	6.2
Black, 16 years and over .....	752	641	10.2	8.6	822	775	10.2	9.5
Married, spouse present .....	173	123	5.1	3.7	121	110	4.7	4.4
Widowed, divorced, or separated .....	87	68	7.6	5.7	156	176	7.0	7.7
Single (never married) .....	491	450	17.4	15.6	544	490	17.0	14.4
Total, 25 years and over .....	2,098	1,907	3.4	3.1	2,176	1,922	4.1	3.6
Married, spouse present .....	1,060	927	2.5	2.2	1,064	868	3.3	2.7
Widowed, divorced, or separated .....	418	344	5.1	4.1	614	572	5.0	4.6
Single (never married) .....	620	637	5.8	5.7	498	482	6.2	5.8
White, 25 years and over .....	1,599	1,415	3.0	2.7	1,533	1,363	3.5	3.1
Married, spouse present .....	853	741	2.3	2.0	875	720	3.1	2.5
Widowed, divorced, or separated .....	322	265	4.8	3.9	438	390	4.5	4.0
Single (never married) .....	425	409	5.0	4.7	219	253	3.9	4.5
Black, 25 years and over .....	419	379	6.9	6.1	505	482	7.6	7.0
Married, spouse present .....	161	119	4.9	3.7	107	103	4.3	4.2
Widowed, divorced, or separated .....	87	68	7.6	5.8	151	160	6.9	7.2
Single (never married) .....	171	192	10.3	11.0	248	219	12.5	10.1

NOTE: Beginning in 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-27. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
Total, 16 years and over <sup>1</sup> .....	6,577	5,995	4.9	4.4	4.6	4.3	5.2	4.5
Managerial and professional specialty .....	772	637	2.0	1.6	2.1	1.7	2.0	1.6
Executive, administrative, and managerial .....	444	308	2.4	1.6	2.6	1.7	2.2	1.5
Professional specialty .....	328	328	1.7	1.7	1.5	1.6	1.9	1.7
Technical, sales, and administrative support .....	1,746	1,520	4.4	3.8	3.4	3.4	5.0	4.0
Technicians and related support .....	114	83	2.7	1.9	2.1	1.2	3.2	2.5
Sales occupations .....	816	756	5.0	4.5	3.4	3.1	6.7	5.9
Administrative support, including clerical .....	816	681	4.2	3.6	4.0	4.9	4.3	3.2
Service occupations .....	1,285	1,197	6.9	6.3	6.5	5.8	7.3	6.7
Private household .....	98	72	10.2	8.4	( <sup>2</sup> )	( <sup>2</sup> )	9.7	8.3
Protective service .....	61	97	2.8	4.1	2.5	3.3	3.8	7.7
Service, except private household and protective .....	1,126	1,028	7.3	6.6	7.6	6.6	7.2	6.5
Precision production, craft, and repair .....	668	669	4.6	4.5	4.6	4.4	5.0	5.7
Mechanics and repairers .....	134	199	2.9	4.0	2.9	3.8	2.7	9.1
Construction trades .....	372	335	6.7	6.1	6.8	6.1	10.4	3.3
Other precision production, craft, and repair .....	162	135	3.9	3.2	3.8	2.5	4.6	5.4
Operators, fabricators, and laborers .....	1,345	1,216	6.8	6.1	6.3	5.8	8.3	7.0
Machine operators, assemblers, and inspectors .....	560	426	6.6	5.0	5.3	3.9	8.7	6.7
Transportation and material moving occupations .....	216	271	3.8	4.7	3.9	4.6	3.3	4.9
Handlers, equipment cleaners, helpers, and laborers .....	569	519	10.0	9.3	10.1	9.4	9.8	9.1
Construction laborers .....	116	134	11.9	13.5	11.6	12.7	( <sup>2</sup> )	( <sup>2</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	453	385	9.6	8.4	9.7	8.5	9.5	8.2
Farming, forestry, and fishing .....	236	251	6.0	6.7	6.1	6.2	5.6	8.6
No previous work experience .....	504	475	-	-	-	-	-	-
16 to 19 years .....	336	313	-	-	-	-	-	-
20 to 24 years .....	54	79	-	-	-	-	-	-
25 years and over .....	113	83	-	-	-	-	-	-

<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 1997, data reflects revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-28. Unemployed persons by industry and sex**

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
Total, 16 years and over .....	6,577	5,995	4.9	4.4	4.6	4.3	5.2	4.5
Nonagricultural private wage and salary workers .....	5,109	4,643	5.0	4.4	4.6	4.2	5.4	4.7
Mining .....	24	29	4.1	4.4	3.7	4.8	6.9	1.6
Construction .....	507	477	7.6	6.9	7.9	6.7	5.2	8.3
Manufacturing .....	912	707	4.3	3.4	3.5	2.8	5.9	4.5
Durable goods .....	528	355	4.2	2.8	3.7	2.6	5.3	3.5
Lumber and wood products .....	31	24	4.3	3.2	3.9	3.3	6.0	2.5
Furniture and fixtures .....	33	29	4.9	4.9	3.6	3.6	7.6	8.1
Stone, clay, and glass products .....	12	18	2.0	3.0	1.9	3.4	2.2	1.2
Primary metal industries .....	26	35	3.1	4.7	3.6	4.6	-	5.1
Fabricated metal products .....	73	37	5.2	2.8	5.3	2.8	4.9	2.8
Machinery and computing equipment .....	54	58	2.2	2.2	1.6	1.8	4.2	3.5
Electrical machinery, equipment, and supplies .....	87	58	4.3	3.0	4.1	2.3	4.8	4.0
Transportation equipment .....	119	54	4.8	2.3	4.6	2.2	5.4	2.4
Automobiles .....	72	40	5.1	3.0	4.9	3.3	5.8	2.2
Other transportation equipment .....	47	14	4.4	1.3	4.2	1.0	4.9	2.7
Professional and photographic equipment .....	27	18	3.5	2.6	2.9	1.9	4.4	3.6
Other durable goods industries .....	67	23	9.5	3.1	8.1	3.1	11.8	3.2
Nondurable goods .....	384	352	4.5	4.1	3.1	3.2	6.5	5.5
Food and kindred products .....	145	109	7.8	6.0	6.0	4.5	11.2	8.8
Textile mill products .....	23	36	3.5	5.4	2.8	4.5	4.2	6.7
Apparel and other textile products .....	82	54	8.3	5.4	5.4	4.5	9.6	5.8
Paper and allied products .....	5	11	.7	1.5	.8	.9	.4	3.5
Printing and publishing .....	67	58	3.6	3.3	2.4	3.7	5.1	2.8
Chemicals and allied products .....	32	40	2.5	3.0	1.8	3.0	4.1	3.1
Rubber and miscellaneous plastics products .....	28	31	3.2	3.4	2.1	1.5	5.4	7.0
Other nondurable goods industries .....	3	13	1.0	3.7	1.6	1.5	.2	8.2
Transportation and public utilities .....	290	221	4.0	2.9	4.1	2.9	3.9	2.9
Transportation .....	199	169	4.5	3.7	4.8	3.7	3.7	3.7
Communications and other public utilities .....	91	51	3.3	1.7	2.9	1.6	4.1	2.0
Wholesale and retail trade .....	1,603	1,591	6.1	6.0	5.2	5.4	7.0	6.6
Wholesale trade .....	156	192	3.2	3.9	2.7	3.4	4.5	4.9
Retail trade .....	1,447	1,399	6.7	6.4	6.1	6.1	7.3	6.8
Finance, insurance, and real estate .....	215	225	2.9	2.9	3.0	2.9	2.8	2.9
Service industries .....	1,558	1,394	4.7	4.1	4.2	4.0	5.0	4.1
Professional services .....	615	528	3.1	2.6	2.7	2.4	3.3	2.7
Other service industries .....	943	865	7.0	6.3	5.4	5.4	8.6	7.3
Agricultural wage and salary workers .....	175	170	8.6	8.6	9.2	8.1	6.8	10.2
Government, self-employed, and unpaid family workers .....	789	707	2.6	2.4	2.7	2.8	2.6	2.0
No previous work experience .....	504	475	-	-	-	-	-	-

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.



**A-29. 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	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,577	5,995	2,641	2,506	2,723	2,380	1,212	1,108	4,668	4,309	1,574	1,416
Job losers and persons who completed temporary jobs .....	2,757	2,525	1,648	1,502	928	874	181	149	2,010	1,878	626	540
On temporary layoff .....	649	668	367	388	221	240	61	39	515	537	99	103
Not on temporary layoff .....	2,108	1,857	1,281	1,114	707	634	119	110	1,496	1,341	526	437
Permanent job losers .....	1,476	1,252	880	740	512	450	85	62	1,076	950	337	241
Persons who completed temporary jobs .....	632	606	402	374	195	184	35	47	420	391	189	197
Job leavers .....	848	769	320	325	401	334	128	111	649	608	157	128
Reentrants .....	2,468	2,225	633	643	1,266	1,046	568	535	1,716	1,529	643	599
New entrants .....	504	475	39	36	129	127	336	313	293	294	147	149
<b>PERCENT DISTRIBUTION</b>												
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers and persons who completed temporary jobs .....	41.9	42.1	62.4	59.9	34.1	36.7	14.9	13.4	43.1	43.6	39.8	38.2
On temporary layoff .....	9.9	11.1	13.9	15.5	8.1	10.1	5.0	3.6	11.0	12.5	6.3	7.3
Not on temporary layoff .....	32.1	31.0	48.5	44.4	26.0	26.6	9.8	9.9	32.0	31.1	33.5	30.9
Job leavers .....	12.9	12.8	12.1	13.0	14.7	14.0	10.5	10.0	13.9	14.1	10.0	9.0
Reentrants .....	37.5	37.1	24.0	25.7	46.5	43.9	46.9	48.3	36.8	35.5	40.9	42.3
New entrants .....	7.7	7.9	1.5	1.4	4.7	5.3	27.7	28.2	6.3	6.8	9.4	10.6
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers and persons who completed temporary jobs .....	2.0	1.8	2.4	2.2	1.6	1.5	2.4	2.0	1.8	1.6	4.1	3.5
Job leavers .....	.6	.6	.5	.5	.7	.6	1.7	1.5	.6	.5	1.0	.8
Reentrants .....	1.8	1.6	.9	.9	2.1	1.7	7.5	7.1	1.5	1.3	4.2	3.8
New entrants .....	.4	.3	.1	.1	.2	.2	4.4	4.2	.3	.3	1.0	1.0

NOTE: Beginning in January 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-30. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment**

(Percent distribution)

Reason, sex, and age	October 1997						
	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 .....	5,995	100.0	39.4	30.1	30.5	13.9	16.7
Job losers and persons who completed temporary jobs .....	2,525	100.0	43.0	26.9	30.1	13.4	16.6
On temporary layoff .....	668	100.0	68.8	17.9	13.3	8.4	5.0
Not on temporary layoff .....	1,857	100.0	33.7	30.2	36.1	15.2	20.8
Permanent job losers .....	1,252	100.0	29.0	30.5	40.5	17.9	22.6
Persons who completed temporary jobs .....	606	100.0	43.4	29.6	27.0	9.8	17.1
Job leavers .....	769	100.0	42.5	30.4	27.0	15.3	11.7
Reentrants .....	2,225	100.0	36.1	32.0	31.9	13.2	18.7
New entrants .....	475	100.0	30.7	36.9	32.4	17.1	15.3
Men, 20 years and over .....	2,506	100.0	36.3	29.1	34.7	14.5	20.2
Job losers and persons who completed temporary jobs .....	1,502	100.0	40.5	27.8	31.7	13.2	18.5
On temporary layoff .....	388	100.0	67.7	19.6	12.6	9.1	3.5
Not on temporary layoff .....	1,114	100.0	31.1	30.6	38.4	14.6	23.7
Permanent job losers .....	740	100.0	26.6	30.4	43.0	16.2	26.7
Persons who completed temporary jobs .....	374	100.0	39.8	30.9	29.3	11.5	17.8
Job leavers .....	325	100.0	35.4	30.3	34.3	17.1	17.2
Reentrants .....	643	100.0	28.2	32.1	39.7	14.9	24.7
New entrants .....	36	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 20 years and over .....	2,380	100.0	40.1	28.5	31.4	13.7	17.7
Job losers and persons who completed temporary jobs .....	874	100.0	45.2	26.8	28.0	13.2	14.9
On temporary layoff .....	240	100.0	69.1	14.7	16.3	8.5	7.8
Not on temporary layoff .....	634	100.0	36.1	31.4	32.5	14.9	17.6
Permanent job losers .....	450	100.0	31.5	32.4	36.0	19.3	16.7
Persons who completed temporary jobs .....	184	100.0	47.3	28.7	23.9	4.3	19.7
Job leavers .....	334	100.0	48.4	26.6	25.1	15.2	9.9
Reentrants .....	1,046	100.0	34.2	29.7	36.1	14.0	22.1
New entrants .....	127	100.0	32.5	34.8	32.7	11.5	21.2
Both sexes, 16 to 19 years .....	1,108	100.0	45.0	35.8	19.3	12.8	6.5
Job losers and persons who completed temporary jobs .....	149	100.0	55.2	19.6	25.2	17.2	8.0
On temporary layoff .....	39	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not on temporary layoff .....	110	100.0	47.0	19.6	33.5	23.3	10.1
Permanent job losers .....	62	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Persons who completed temporary jobs .....	47	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Job leavers .....	111	100.0	45.8	42.6	11.6	10.8	.8
Reentrants .....	535	100.0	49.2	36.5	14.3	9.4	4.9
New entrants .....	313	100.0	32.5	39.9	27.6	17.2	10.4

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

used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population controls

**A-31. 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	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
Total, 16 years and over .....	6,577	5,995	100.0	100.0	5,179	4,705	100.0	100.0
Less than 5 weeks .....	2,291	2,362	34.8	39.4	1,643	1,765	31.7	37.5
5 to 14 weeks .....	2,174	1,802	33.1	30.1	1,668	1,348	32.2	28.7
5 to 10 weeks .....	1,539	1,257	23.4	21.0	1,129	899	21.8	19.1
11 to 14 weeks .....	635	545	9.7	9.1	539	449	10.4	9.5
15 weeks and over .....	2,112	1,830	32.1	30.5	1,868	1,591	36.1	33.8
15 to 26 weeks .....	982	831	14.9	13.9	867	707	16.7	15.0
27 weeks and over .....	1,130	999	17.2	16.7	1,001	884	19.3	18.8
27 to 51 weeks .....	491	373	7.5	6.2	456	332	8.8	7.0
52 weeks and over .....	639	626	9.7	10.4	545	553	10.5	11.7
Average (mean) duration, in weeks .....	16.7	16.6	-	-	18.1	18.0	-	-
Median duration, in weeks .....	8.1	7.5	-	-	9.5	8.5	-	-

NOTE: Beginning in 1997, data reflect revised population controls used in the household survey.

A-32. Unemployed persons by age, sex, race, marital status, and duration of unemployment

Sex, age, race, and marital status	October 1997							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 .....	5,995	2,362	1,802	1,830	831	999	16.6	7.5	
18 to 19 years .....	1,108	499	396	213	142	72	10.0	5.6	
20 to 24 years .....	1,057	463	330	264	131	133	13.7	6.4	
25 to 34 years .....	1,382	559	404	419	183	236	15.7	7.2	
35 to 44 years .....	1,286	461	375	450	190	260	19.8	8.4	
45 to 54 years .....	728	220	211	297	121	176	21.8	10.9	
55 to 64 years .....	318	122	66	130	48	82	22.8	9.2	
65 years and over .....	115	39	20	56	16	41	31.7	13.8	
<b>Men, 16 years and over</b> .....	3,130	1,202	942	985	448	537	17.2	7.9	
16 to 19 years .....	623	294	214	115	85	30	9.3	5.2	
20 to 24 years .....	599	259	187	152	81	71	13.2	6.4	
25 to 34 years .....	619	241	189	190	83	107	15.7	7.7	
35 to 44 years .....	611	198	207	207	81	125	20.1	8.6	
45 to 54 years .....	428	126	100	203	76	127	26.4	13.5	
55 to 64 years .....	190	71	37	82	34	49	24.0	9.7	
65 years and over .....	59	14	9	35	7	28	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Women, 16 years and over</b> .....	2,865	1,160	860	846	383	462	15.9	7.0	
16 to 19 years .....	485	205	182	98	56	41	10.8	6.2	
20 to 24 years .....	458	203	143	112	50	62	14.3	6.3	
25 to 34 years .....	763	318	215	230	100	130	15.7	6.7	
35 to 44 years .....	675	263	169	244	109	134	19.5	8.2	
45 to 54 years .....	300	94	112	94	45	49	15.2	8.3	
55 to 64 years .....	128	51	28	48	15	33	21.0	7.7	
65 years and over .....	57	25	11	21	8	12	( <sup>1</sup> )	( <sup>1</sup> )	
<b>Race</b>									
White, 16 years and over .....	4,309	1,782	1,305	1,222	580	642	15.5	6.8	
Men .....	2,328	937	719	672	303	369	16.4	7.2	
Women .....	1,982	846	586	550	277	273	14.5	6.4	
Black, 16 years and over .....	1,416	480	424	512	210	302	19.3	9.4	
Men .....	641	209	174	258	119	139	20.2	10.8	
Women .....	775	272	250	254	91	163	18.6	8.6	
<b>Marital status</b>									
Men, 16 years and over:									
Married, spouse present .....	1,003	338	266	398	158	239	21.4	9.7	
Widowed, divorced, or separated .....	361	128	110	124	39	84	23.5	9.2	
Single (never married) .....	1,765	737	565	463	250	213	13.5	6.6	
Women, 16 years and over:									
Married, spouse present .....	975	403	287	286	150	136	14.7	6.4	
Widowed, divorced, or separated .....	621	255	164	203	86	117	17.4	7.0	
Single (never married) .....	1,268	502	409	358	148	210	16.1	7.4	

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

used in the household survey.

NOTE: Beginning in January 1997, data reflects revised population controls

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-33. Unemployed persons by occupation, industry, and duration of unemployment**

Occupation and industry	October 1997							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 .....	637	204	185	247	101	146	20.9	9.4	
Technical, sales, and administrative support .....	1,520	582	476	462	221	241	16.2	7.4	
Service occupations .....	1,197	486	376	335	126	209	17.0	7.1	
Precision production, craft, and repair .....	669	300	187	183	85	98	14.7	5.7	
Operators, fabricators, and laborers .....	1,216	500	341	375	179	196	16.0	7.7	
Farming, forestry, and fishing .....	251	137	52	62	31	31	12.8	4.1	
<b>INDUSTRY<sup>1</sup></b>									
Agriculture .....	170	82	41	47	32	16	13.4	5.3	
Construction .....	501	244	148	108	55	53	13.3	4.8	
Manufacturing .....	705	258	177	270	123	147	19.3	9.1	
Durable goods .....	354	128	100	127	63	64	19.3	9.0	
Nondurable goods .....	351	130	78	143	60	83	19.4	9.3	
Transportation and public utilities .....	717	73	78	91	32	59	20.3	10.6	
Wholesale and retail trade .....	4,821	692	469	435	214	221	14.1	6.1	
Finance, insurance, and real estate .....	743	60	90	97	39	58	19.9	10.7	
Services .....	2,995	630	498	473	221	252	16.5	7.4	
Public administration .....	354	26	47	45	12	32	25.8	10.9	
No previous work experience .....	475	146	175	154	81	73	17.1	9.1	

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

used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population controls

**A-34. Persons not in the labor force by desire and availability for work, age, and sex**

(In thousands)

Category	Total		Age						Sex			
	Oct. 1996	Oct. 1997	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
	Total not in the labor force .....	66,258	67,102	11,532	12,024	18,048	18,148	36,678	36,930	24,120	24,705	42,138
Do not want a job now <sup>1</sup> .....	61,178	62,617	9,719	10,465	15,700	15,995	35,759	36,158	22,144	22,967	39,033	39,650
Want a job <sup>1</sup> .....	5,080	4,485	1,813	1,559	2,349	2,154	919	772	1,976	1,738	3,104	2,747
Did not search for work in previous year .....	2,980	2,677	947	880	1,319	1,221	714	576	1,078	989	1,901	1,688
Searched for work in previous year <sup>2</sup> .....	2,100	1,808	865	679	1,030	933	205	196	898	749	1,203	1,059
Not available to work now .....	653	524	290	217	314	269	48	38	211	188	442	336
Available to work now .....	1,447	1,284	575	462	715	664	157	158	687	561	760	723
Reason not currently looking:												
Discouragement over job prospects <sup>3</sup> .....	374	302	83	92	239	168	53	42	238	181	137	121
Reasons other than discouragement .....	1,073	982	492	370	477	496	104	116	449	380	624	602
Family responsibilities .....	152	128	19	14	121	93	11	21	41	19	111	109
In school or training .....	329	234	263	192	63	40	2	2	172	97	157	137
Ill health or disability .....	99	117	24	16	50	73	24	29	37	40	62	77
Other <sup>4</sup> .....	494	502	185	149	242	290	67	64	200	224	294	279

<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 1997, data reflect revised population controls used in the household survey.

A-35. 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>	
	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
<b>AGE</b>												
Total, 16 years and over <sup>2</sup> .....	8,369	8,139	6.5	6.2	4,376	4,357	6.3	6.2	3,993	3,781	6.7	6.3
16 to 19 years .....	292	255	4.6	4.0	106	126	3.3	3.8	186	129	5.9	4.2
20 years and over .....	8,077	7,884	6.6	6.3	4,270	4,231	6.5	6.3	3,807	3,653	6.8	6.4
20 to 24 years .....	887	805	7.3	6.5	420	335	6.5	5.2	467	470	8.2	8.0
25 years and over .....	7,190	7,080	6.5	6.3	3,850	3,897	6.5	6.5	3,340	3,183	6.6	6.2
25 to 54 years .....	6,456	6,282	6.9	6.6	3,445	3,423	6.8	6.7	3,011	2,859	6.9	6.5
55 years and over .....	733	797	4.7	4.9	404	473	4.6	5.2	329	324	4.8	4.5
55 to 64 years .....	598	666	5.0	5.3	326	388	5.0	5.6	272	278	5.0	4.8
65 years and over .....	135	132	3.6	3.5	79	86	3.5	3.7	57	46	3.7	3.1
<b>RACE AND HISPANIC ORIGIN</b>												
White .....	7,338	6,943	6.7	6.3	3,867	3,726	6.5	6.2	3,471	3,217	7.0	6.4
Black .....	729	831	5.3	5.8	371	420	5.6	6.2	357	411	5.0	5.5
Hispanic origin .....	449	472	3.7	3.8	253	315	3.5	4.0	196	157	4.1	3.1
<b>MARITAL STATUS</b>												
Married, spouse present .....	4,802	4,617	6.3	6.0	2,885	2,796	6.7	6.5	1,916	1,819	5.8	5.5
Widowed, divorced, or separated .....	1,397	1,472	7.0	7.2	468	527	5.9	6.4	929	945	7.7	7.7
Single (never married) .....	2,170	2,050	6.6	6.1	1,022	1,032	5.6	5.5	1,148	1,017	7.9	6.8
<b>FULL- OR PART-TIME STATUS</b>												
Primary job full time, secondary job part time .....	4,532	4,584	-	-	2,603	2,649	-	-	1,929	1,935	-	-
Primary and secondary jobs both part time .....	1,878	1,721	-	-	564	514	-	-	1,314	1,207	-	-
Primary and secondary jobs both full time .....	277	260	-	-	193	208	-	-	84	51	-	-
Hours vary on primary or secondary job .....	1,640	1,558	-	-	984	972	-	-	656	586	-	-

<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 1997, data reflect revised population controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-36. Employment status of male Vietnam-era veterans and nonveterans by age**

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Oct. 1996	Oct. 1997	Total		Employed		Unemployed			
			Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997	Number		Percent of labor force	
							Oct. 1996	Oct. 1997	Oct. 1996	Oct. 1997
<b>VIETNAM-ERA VETERANS</b>										
Total, 40 years and over .....	7,760	7,779	6,629	6,571	6,449	6,379	180	192	2.7	2.9
40 to 54 years .....	6,460	6,186	5,841	5,557	5,682	5,389	159	167	2.7	3.0
40 to 44 years .....	1,175	887	1,069	782	1,046	752	23	30	2.1	3.9
45 to 49 years .....	3,011	2,527	2,715	2,291	2,634	2,222	81	69	3.0	3.0
50 to 54 years .....	2,274	2,772	2,057	2,484	2,002	2,416	55	68	2.7	2.8
55 years and over .....	1,300	1,593	788	1,014	766	990	22	24	2.8	2.4
<b>NONVETERANS</b>										
Total, 40 to 54 years .....	18,613	19,791	16,909	17,971	16,380	17,436	529	535	3.1	3.0
40 to 44 years .....	8,688	9,113	8,093	8,492	7,848	8,239	246	253	3.0	3.0
45 to 49 years .....	5,909	6,422	5,377	5,784	5,208	5,616	169	168	3.1	2.9
50 to 54 years .....	4,017	4,256	3,438	3,695	3,324	3,581	114	114	3.3	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 1997, data reflect

revised population controls used in the household survey. Beginning in January 1997, data reflect revised population controls used in the household survey.

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

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

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	(1)	(1)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	(1)	(1)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	(1)	(1)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	(1)	(1)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	(1)	(1)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	(1)	(1)
1953	50,202	43,556	21,074	868	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	(1)	(1)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	(1)	(1)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,264	4,244	3,027	7,631	2,389	6,497	2,209	1,250	3,819
1957	52,855	45,239	20,967	828	2,962	17,176	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071
1958	51,322	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,785	2,191	1,415	4,230
1959 <sup>2</sup>	53,270	45,186	20,411	732	3,004	16,875	32,857	4,011	3,092	8,035	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,153	8,238	2,628	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,840	635	3,010	16,995	36,013	3,903	3,258	8,520	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,347	8,812	2,911	8,660	2,348	1,856	5,392
1965	60,763	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,608	9,637	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,700	9,906	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,158	4,318	3,791	10,308	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,919	10,785	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	4,006	11,034	3,645	11,548	2,731	2,664	7,158
1971	71,211	58,331	22,935	609	3,704	18,623	48,276	4,476	4,014	11,338	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,127	11,622	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,291	12,315	4,048	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,447	12,539	4,148	13,441	2,724	3,039	8,407
1975	78,945	62,259	22,600	752	3,525	16,323	54,345	4,542	4,430	12,630	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,562	13,193	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,882	58,125	4,713	4,723	13,792	4,467	15,302	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,221	14,972	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	2,866	3,610	9,765
1981	91,152	75,121	25,497	1139	4,188	20,170	65,655	5,165	5,375	15,171	5,298	18,615	2,772	3,640	9,619
1982	89,544	73,707	23,812	1128	3,904	18,780	65,732	5,081	5,295	15,158	5,340	19,021	2,739	3,640	9,458
1983	90,152	74,282	23,330	952	3,946	18,432	66,821	4,952	5,263	15,587	5,466	19,664	2,774	3,662	9,434
1984	94,408	78,384	24,718	966	4,380	19,372	69,690	5,156	5,568	16,512	5,684	20,746	2,807	3,734	9,482
1985	97,387	80,992	24,842	927	4,668	19,248	72,544	5,233	5,727	17,315	5,948	21,927	2,875	3,832	9,687
1986	99,344	82,651	24,533	777	4,810	18,947	74,811	5,247	5,761	17,880	6,273	22,957	2,899	3,893	9,901
1987	101,958	84,948	24,674	717	4,958	18,999	77,284	5,362	5,848	18,422	6,533	24,110	2,943	3,967	10,100
1988	105,209	87,823	25,125	713	5,098	19,314	80,084	5,512	6,030	19,023	6,630	25,504	2,971	4,076	10,339
1989	107,884	90,105	25,254	692	5,171	19,391	82,630	5,614	6,187	19,475	6,688	26,907	2,988	4,182	10,609
1990	109,403	91,098	24,905	709	5,120	19,076	84,497	5,777	6,173	19,601	6,709	27,934	3,085	4,305	10,914
1991	108,249	89,847	23,745	689	4,650	18,406	84,504	5,755	6,081	19,284	6,646	28,336	2,966	4,355	11,081
1992	108,601	89,956	23,231	635	4,492	18,104	85,370	5,718	5,997	19,356	6,602	29,052	2,969	4,408	11,267
1993	110,713	91,872	23,352	610	4,668	18,075	87,361	5,811	5,981	19,773	6,757	30,197	2,915	4,488	11,438
1994	114,163	95,036	23,908	601	4,986	18,321	90,256	5,984	6,162	20,507	6,896	31,579	2,870	4,576	11,682
1995	117,191	97,885	24,265	581	5,160	18,524	92,925	6,132	6,378	21,187	6,806	33,117	2,822	4,635	11,849
1996	119,523	100,076	24,431	574	5,400	18,457	95,092	6,261	6,483	21,625	6,899	34,377	2,757	4,624	12,066
Monthly data, seasonally adjusted															
<b>1996:</b>															
October	120,248	100,759	24,479	570	5,467	18,442	95,769	6,293	6,538	21,791	6,941	34,717	2,732	4,618	12,139
November	120,450	100,956	24,508	571	5,495	18,442	95,942	6,303	6,549	21,847	6,949	34,800	2,732	4,620	12,142
December	120,659	101,145	24,540	571	5,521	18,448	96,119	6,288	6,559	21,912	6,962	34,884	2,728	4,621	12,165
<b>1997:</b>															
January	120,909	101,380	24,581	574	5,542	18,465	96,328	6,351	6,570	21,917	6,971	34,990	2,723	4,621	12,185
February	121,162	101,615	24,653	574	5,604	18,475	96,509	6,376	6,593	21,922	6,980	35,091	2,716	4,624	12,207
March	121,344	101,799	24,670	572	5,609	18,489	96,674	6,405	6,611	21,945	6,992	35,176	2,709	4,622	12,214
April	121,671	102,092	24,667	573	5,599	18,495	97,004	6,421	6,622	22,029	7,019	35,334	2,708	4,635	12,236
May	121,834	102,269	24,702	576	5,628	18,498	97,132	6,431	6,630	22,026	7,029	35,451	2,703	4,636	12,226
June	122,056	102,417	24,714	574	5,622	18,518	97,342	6,434	6,634	22,079	7,034	35,522	2,694	4,640	12,305
July	122,440	102,721	24,713	574	5,625	18,514	97,727	6,443	6,664	22,159	7,058	35,684	2,689	4,671	12,359
August	122,492	102,688	24,765	573	5,637	18,555	97,727	6,289	6,675	22,189	7,068	35,702	2,690	4,684	12,450
September <sup>P</sup>	122,761	103,018	24,756	576	5,637	18,543	98,005	6,459	6,688	22,208	7,079	35,828	2,690	4,676	12,377
October <sup>P</sup>	123,045	103,300	24,827	573	5,657	18,597	98,218	6,488	6,710	22,245	7,102	35,928	2,687	4,666	12,392

<sup>1</sup> Not available.

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

P = preliminary.

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

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**B-2. Average hours and earnings of production or nonsupervisory 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	11.81	406.26	45.3	15.61	707.13	39.0	15.46	602.94
<b>Monthly data, not seasonally adjusted</b>									
<b>1996:</b>									
October .....	34.5	\$11.95	\$412.28	45.9	\$15.54	\$713.29	39.9	\$15.75	\$628.43
November .....	34.5	12.00	414.00	45.5	15.67	712.99	38.8	15.62	606.06
December .....	34.9	12.06	420.89	46.0	15.95	733.70	38.6	15.66	604.48
<b>1997:</b>									
January .....	33.9	12.11	410.53	44.2	16.18	715.16	36.4	15.73	572.57
February .....	34.5	12.14	418.83	45.6	16.06	732.34	37.5	15.69	588.38
March .....	34.6	12.17	421.08	45.7	15.98	730.29	38.4	15.67	601.73
April .....	34.4	12.17	418.65	45.1	16.05	723.86	38.7	15.75	609.53
May .....	34.5	12.17	419.87	45.8	15.98	731.88	39.7	15.83	628.45
June .....	34.9	12.17	424.73	45.8	16.11	737.84	39.5	15.88	627.26
July .....	34.7	12.15	421.61	45.2	16.03	724.56	40.1	16.00	641.60
August .....	35.0	12.21	427.35	45.6	15.94	726.86	39.7	16.09	638.77
September <sup>P</sup> .....	34.7	12.39	429.93	45.5	16.23	738.47	40.0	16.27	650.80
October <sup>P</sup> .....	34.6	12.43	430.08	45.3	16.18	732.95	39.6	16.30	645.48

See footnotes at end of table.



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.08
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.66
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.90
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.86
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.42
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.54
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	169.94
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.19
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.27
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	266.88
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.68
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.46
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.79
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.88
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.36
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.72
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
1988 .....	41.1	10.19	9.73	418.81	38.2	12.24	467.57	38.1	9.98	380.24
1989 .....	41.0	10.48	10.02	429.68	38.3	12.57	481.43	38.0	10.39	394.82
1990 .....	40.8	10.83	10.37	441.86	38.4	12.92	496.13	38.1	10.79	411.10
1991 .....	40.7	11.18	10.71	455.03	38.1	13.20	502.92	38.1	11.15	424.82
1992 .....	41.0	11.46	10.95	469.86	38.3	13.43	514.37	38.2	11.39	435.10
1993 .....	41.4	11.74	11.18	486.04	39.3	13.55	532.52	38.2	11.74	448.47
1994 .....	42.0	12.07	11.43	506.94	39.7	13.78	547.07	38.4	12.06	463.10
1995 .....	41.6	12.37	11.74	514.59	39.4	14.13	556.72	38.3	12.43	476.07
1996 .....	41.6	12.78	12.12	531.65	39.6	14.44	571.82	38.3	12.87	492.92
<b>Monthly data, not seasonally adjusted</b>										
<b>1996:</b>										
October .....	41.9	\$12.83	\$12.15	\$537.58	39.7	\$14.49	\$575.25	38.3	\$12.94	\$495.60
November .....	42.1	12.93	12.23	544.35	39.8	14.57	579.89	38.3	13.06	500.20
December .....	42.8	13.07	12.34	559.40	39.9	14.60	582.54	38.7	13.20	510.84
<b>1997:</b>										
January .....	41.5	13.04	12.38	541.16	38.8	14.71	570.75	37.9	13.18	499.52
February .....	41.6	13.02	12.36	541.63	39.5	14.66	579.07	38.5	13.26	510.51
March .....	42.0	13.08	12.39	549.36	39.5	14.70	580.65	38.5	13.28	511.28
April .....	41.8	13.09	12.40	547.16	39.2	14.77	578.98	38.3	13.33	510.54
May .....	41.9	13.09	12.40	548.47	39.3	14.72	578.50	38.5	13.32	512.82
June .....	42.0	13.10	12.41	550.20	39.8	14.78	588.24	38.7	13.36	517.03
July .....	41.2	13.11	12.43	540.13	39.4	14.95	589.03	38.3	13.37	512.07
August .....	42.0	13.15	12.42	552.30	40.5	15.00	607.50	38.5	13.47	518.60
September <sup>P</sup> .....	42.4	13.24	12.47	561.38	39.6	15.05	595.98	38.4	13.52	519.17
October <sup>P</sup> .....	42.2	13.29	12.54	560.84	39.4	15.03	592.18	38.5	13.54	521.29

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	12.79	459.16	32.4	11.79	382.00
Monthly data, not seasonally adjusted									
<b>1996:</b>									
October .....	28.7	\$8.12	\$233.04	35.7	\$12.87	\$459.46	32.4	\$11.93	\$386.53
November .....	28.6	8.13	232.52	35.8	12.97	464.33	32.4	12.04	390.10
December .....	29.3	8.16	239.09	36.7	13.02	477.83	32.7	12.16	397.63
<b>1997:</b>									
January .....	28.0	8.24	230.72	35.7	12.99	463.74	32.0	12.19	390.08
February .....	28.7	8.24	236.49	36.7	13.15	482.61	32.7	12.24	400.25
March .....	28.7	8.27	237.35	36.5	13.20	481.80	32.6	12.24	399.02
April .....	28.6	8.28	236.81	35.9	13.09	469.93	32.4	12.20	395.28
May .....	28.8	8.27	238.18	35.9	13.18	473.16	32.4	12.17	394.31
June .....	29.4	8.27	243.14	36.6	13.23	484.22	32.8	12.15	398.52
July .....	29.6	8.27	244.79	35.8	13.18	471.84	32.8	12.07	395.90
August .....	29.7	8.29	246.21	36.1	13.35	481.94	32.9	12.12	398.75
September <sup>P</sup> .....	29.0	8.44	244.76	35.8	13.44	481.15	32.5	12.37	402.03
October <sup>P</sup> .....	28.8	8.45	243.36	35.8	13.53	484.37	32.5	12.42	403.65

<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 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.P	Oct.P
<b>Total</b> .....	120,248	120,450	120,659	120,909	121,162	121,344	121,671	121,834	122,056	122,440	122,492	122,761	123,045
<b>Total private</b> .....	100,759	100,956	101,145	101,380	101,615	101,799	102,092	102,269	102,417	102,721	102,688	103,018	103,300
<b>Goods-producing</b> .....	24,479	24,508	24,540	24,581	24,653	24,670	24,667	24,702	24,714	24,713	24,765	24,756	24,827
<b>Mining</b> .....	570	571	571	574	574	572	573	576	574	574	573	576	573
Metal mining .....	54	54	54	55	54	54	54	54	54	54	54	54	53
Coal mining .....	95	94	94	94	93	93	93	93	92	91	91	91	91
Oil and gas extraction .....	315	316	316	317	319	317	319	321	320	321	321	323	322
Nonmetallic minerals, except fuels .....	106	107	107	108	108	108	107	108	108	108	107	108	107
<b>Construction</b> .....	5,467	5,495	5,521	5,542	5,604	5,609	5,599	5,628	5,622	5,625	5,637	5,637	5,657
General building contractors .....	1,265	1,272	1,281	1,287	1,298	1,298	1,297	1,300	1,302	1,308	1,306	1,304	1,316
Heavy construction, except building .....	771	773	772	774	791	777	767	777	766	761	764	764	758
Special trade contractors .....	3,431	3,450	3,468	3,481	3,515	3,534	3,535	3,551	3,554	3,556	3,567	3,569	3,583
<b>Manufacturing</b> .....	18,442	18,442	18,448	18,465	18,475	18,489	18,495	18,498	18,518	18,514	18,555	18,543	18,597
<b>Durable goods</b> .....	10,780	10,791	10,803	10,821	10,836	10,848	10,856	10,864	10,891	10,910	10,957	10,944	10,990
Lumber and wood products .....	785	787	788	789	793	797	799	800	797	796	798	798	798
Furniture and fixtures .....	503	504	505	506	507	507	506	508	508	510	506	508	511
Stone, clay, and glass products .....	542	541	543	543	543	542	541	540	538	541	541	541	542
Primary metal industries .....	707	708	707	708	708	709	710	708	709	708	711	712	713
Fabricated metal products .....	1,455	1,457	1,458	1,460	1,462	1,463	1,468	1,468	1,470	1,468	1,475	1,477	1,481
Industrial machinery and equipment .....	2,115	2,115	2,119	2,126	2,132	2,136	2,142	2,146	2,152	2,155	2,165	2,164	2,177
Computer and office equipment .....	364	365	366	367	370	372	375	378	379	381	385	384	385
Electronic and other electrical equipment .....	1,650	1,649	1,647	1,645	1,645	1,645	1,643	1,644	1,651	1,658	1,661	1,663	1,669
Electronic components and accessories .....	609	609	609	610	612	614	618	622	628	632	637	640	645
Transportation equipment .....	1,783	1,790	1,793	1,802	1,804	1,810	1,804	1,809	1,824	1,826	1,855	1,839	1,855
Motor vehicles and equipment .....	959	960	961	966	964	969	957	960	967	965	985	972	978
Aircraft and parts .....	470	475	479	483	487	491	495	498	505	510	514	515	518
Instruments and related products .....	855	854	856	854	854	853	855	854	856	859	858	858	861
Miscellaneous manufacturing .....	385	386	387	388	388	386	388	387	386	389	387	384	383
<b>Nondurable goods</b> .....	7,662	7,651	7,645	7,644	7,639	7,641	7,639	7,634	7,627	7,604	7,598	7,599	7,607
Food and kindred products .....	1,684	1,688	1,689	1,695	1,694	1,698	1,699	1,693	1,692	1,684	1,679	1,683	1,689
Tobacco products .....	42	42	42	41	42	42	41	41	41	41	40	40	41
Textile mill products .....	620	616	615	615	612	612	609	609	607	608	604	605	606
Apparel and other textile products .....	849	844	840	835	831	827	822	818	816	810	810	803	802
Paper and allied products .....	679	679	678	678	678	677	677	677	675	675	675	675	674
Printing and publishing .....	1,539	1,535	1,534	1,534	1,534	1,535	1,541	1,546	1,550	1,549	1,547	1,548	1,551
Chemicals and allied products .....	1,029	1,028	1,028	1,028	1,028	1,028	1,029	1,030	1,027	1,023	1,024	1,025	1,025
Petroleum and coal products .....	141	141	140	139	139	140	140	139	138	138	138	138	137
Rubber and misc. plastics products .....	985	985	985	985	987	988	988	988	989	986	991	993	993
Leather and leather products .....	94	93	94	94	94	94	93	93	92	90	90	89	89
<b>Service-producing</b> .....	95,769	95,942	96,119	96,328	96,509	96,674	97,004	97,132	97,342	97,727	97,727	98,005	98,218
<b>Transportation and public utilities</b> .....	6,293	6,303	6,288	6,351	6,376	6,405	6,421	6,431	6,434	6,443	6,289	6,459	6,488
Transportation .....	4,072	4,078	4,065	4,121	4,142	4,164	4,179	4,187	4,193	4,202	4,049	4,220	4,241
Railroad transportation .....	230	229	228	228	227	226	225	226	230	229	225	226	227
Local and interurban passenger transit .....	445	447	449	452	453	455	460	458	457	461	464	461	462
Trucking and warehousing .....	1,648	1,649	1,642	1,656	1,664	1,671	1,676	1,687	1,686	1,692	1,703	1,708	1,712
Water transportation .....	173	173	173	175	175	175	177	176	178	176	179	176	181
Transportation by air .....	1,140	1,142	1,133	1,168	1,178	1,191	1,192	1,192	1,192	1,193	1,025	1,196	1,205
Pipelines, except natural gas .....	14	14	14	14	14	14	14	14	14	14	14	14	14
Transportation services .....	422	424	426	428	431	432	435	434	436	437	439	439	440
Communications and public utilities .....	2,221	2,225	2,223	2,230	2,234	2,241	2,242	2,244	2,241	2,241	2,240	2,239	2,247
Communications .....	1,343	1,347	1,347	1,354	1,358	1,364	1,369	1,372	1,372	1,372	1,376	1,375	1,385
Electric, gas, and sanitary services .....	878	878	876	876	876	877	873	872	869	869	864	864	862
<b>Wholesale trade</b> .....	6,538	6,549	6,559	6,570	6,593	6,611	6,622	6,630	6,634	6,664	6,675	6,688	6,710
Durable goods .....	3,837	3,847	3,855	3,863	3,879	3,889	3,900	3,909	3,917	3,938	3,957	3,965	3,981
Nondurable goods .....	2,701	2,702	2,704	2,707	2,714	2,722	2,722	2,721	2,717	2,726	2,718	2,723	2,729

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.P	Oct.P
<b>Retail trade</b> .....	21,791	21,847	21,912	21,917	21,922	21,945	22,029	22,026	22,079	22,159	22,189	22,208	22,245
Building materials and garden supplies .....	905	909	914	914	918	922	931	932	928	930	929	926	922
General merchandise stores .....	2,756	2,761	2,769	2,757	2,752	2,783	2,799	2,787	2,798	2,803	2,822	2,819	2,822
Department stores .....	2,416	2,418	2,425	2,420	2,416	2,452	2,446	2,452	2,450	2,458	2,470	2,470	2,477
Food stores .....	3,458	3,467	3,468	3,474	3,477	3,478	3,480	3,482	3,487	3,502	3,505	3,502	3,521
Automotive dealers and service stations .....	2,295	2,300	2,304	2,307	2,311	2,315	2,319	2,316	2,315	2,318	2,325	2,330	2,338
New and used car dealers .....	1,043	1,045	1,048	1,051	1,053	1,055	1,055	1,054	1,056	1,055	1,057	1,057	1,061
Apparel and accessory stores .....	1,107	1,107	1,106	1,107	1,103	1,104	1,105	1,099	1,097	1,096	1,102	1,102	1,102
Furniture and home furnishings stores .....	1,003	1,010	1,021	1,020	1,022	1,025	1,026	1,032	1,034	1,042	1,044	1,051	1,051
Eating and drinking places .....	7,516	7,530	7,551	7,552	7,556	7,525	7,571	7,572	7,595	7,639	7,618	7,624	7,624
Miscellaneous retail establishments .....	2,751	2,763	2,779	2,786	2,783	2,793	2,798	2,806	2,825	2,829	2,844	2,854	2,865
<b>Finance, insurance, and real estate</b> .....	6,941	6,949	6,962	6,971	6,980	6,992	7,019	7,029	7,034	7,058	7,068	7,079	7,102
Finance .....	3,330	3,334	3,343	3,351	3,355	3,366	3,381	3,389	3,394	3,405	3,414	3,424	3,442
Depository institutions .....	2,028	2,029	2,030	2,032	2,034	2,037	2,041	2,043	2,044	2,048	2,048	2,046	2,053
Commercial banks .....	1,472	1,473	1,475	1,478	1,479	1,482	1,486	1,488	1,487	1,490	1,491	1,490	1,493
Savings institutions .....	259	257	256	255	255	254	253	253	254	253	252	251	251
Nondepository institutions .....	528	530	532	533	530	534	539	542	543	545	549	554	558
Mortgage bankers and brokers .....	236	238	240	239	241	242	243	244	243	243	245	248	250
Security and commodity brokers .....	562	564	568	572	576	579	583	586	586	592	595	600	605
Holding and other investment offices .....	212	211	213	214	215	216	218	218	221	220	222	224	226
Insurance .....	2,219	2,220	2,221	2,218	2,219	2,217	2,221	2,222	2,226	2,230	2,232	2,232	2,233
Insurance carriers .....	1,508	1,507	1,507	1,505	1,503	1,500	1,502	1,503	1,506	1,509	1,510	1,510	1,512
Insurance agents, brokers, and service .....	711	713	714	713	716	717	719	719	720	721	722	722	721
Real estate .....	1,392	1,395	1,398	1,402	1,406	1,409	1,417	1,418	1,414	1,423	1,422	1,423	1,427
<b>Services<sup>1</sup></b> .....	34,717	34,800	34,884	34,990	35,091	35,176	35,334	35,451	35,522	35,684	35,702	35,828	35,928
Agricultural services .....	635	639	638	647	649	648	664	669	668	673	675	681	685
Hotels and other lodging places .....	1,726	1,731	1,738	1,743	1,746	1,746	1,756	1,752	1,744	1,747	1,747	1,750	1,763
Personal services .....	1,193	1,194	1,194	1,195	1,197	1,196	1,193	1,189	1,182	1,182	1,185	1,189	1,190
Business services .....	7,379	7,398	7,437	7,476	7,521	7,577	7,594	7,618	7,645	7,682	7,657	7,711	7,735
Services to buildings .....	899	896	895	893	897	896	902	903	903	901	894	904	902
Personnel supply services .....	2,711	2,706	2,721	2,743	2,758	2,787	2,752	2,744	2,748	2,767	2,732	2,741	2,752
Help supply services .....	2,398	2,391	2,406	2,427	2,432	2,457	2,419	2,409	2,407	2,425	2,395	2,407	2,407
Computer and data processing services .....	1,236	1,246	1,256	1,268	1,278	1,291	1,306	1,322	1,337	1,347	1,360	1,373	1,388
Auto repair, services, and parking .....	1,104	1,107	1,112	1,117	1,123	1,126	1,132	1,136	1,131	1,137	1,139	1,144	1,151
Miscellaneous repair services .....	376	380	380	380	379	380	382	384	386	387	388	389	388
Motion pictures .....	529	528	530	530	532	529	528	532	537	539	550	552	551
Amusement and recreation services .....	1,478	1,481	1,483	1,490	1,495	1,494	1,503	1,542	1,561	1,576	1,563	1,572	1,559
Health services .....	9,532	9,552	9,567	9,586	9,600	9,612	9,644	9,673	9,673	9,697	9,712	9,731	9,757
Offices and clinics of medical doctors .....	1,695	1,700	1,703	1,713	1,720	1,721	1,728	1,740	1,740	1,745	1,745	1,752	1,764
Nursing and personal care facilities .....	1,742	1,745	1,747	1,750	1,751	1,753	1,760	1,764	1,761	1,762	1,765	1,763	1,765
Hospitals .....	3,829	3,834	3,839	3,841	3,846	3,852	3,857	3,864	3,869	3,877	3,884	3,891	3,900
Home health care services .....	670	674	673	677	676	678	684	682	682	685	685	686	686
Legal services .....	936	939	940	942	943	946	951	952	953	957	957	962	963
Educational services .....	2,035	2,041	2,040	2,042	2,046	2,047	2,062	2,062	2,074	2,089	2,094	2,095	2,106
Social services .....	2,422	2,425	2,426	2,432	2,438	2,445	2,458	2,466	2,474	2,494	2,497	2,508	2,511
Child day care services .....	576	576	575	578	579	580	581	587	590	594	600	593	594
Residential care .....	679	681	683	684	686	690	694	695	698	702	703	708	711
Museums and botanical and zoological gardens .....	86	86	87	87	87	87	87	88	88	88	88	88	89
Memberships organizations .....	2,189	2,190	2,191	2,192	2,192	2,193	2,199	2,201	2,202	2,209	2,206	2,204	2,208
Engineering and management services .....	2,882	2,894	2,906	2,916	2,927	2,934	2,965	2,971	2,988	3,010	3,027	3,036	3,055
Engineering and architectural services .....	848	852	854	857	862	866	869	869	877	878	881	883	891
Management and public relations .....	892	904	911	913	919	923	936	941	950	959	968	965	973
<b>Government</b> .....	19,489	19,494	19,514	19,529	19,547	19,545	19,579	19,565	19,639	19,719	19,804	19,743	19,745
Federal .....	2,732	2,732	2,728	2,723	2,716	2,709	2,708	2,703	2,694	2,689	2,690	2,690	2,687
Federal, except Postal Service .....	1,879	1,874	1,870	1,862	1,861	1,856	1,856	1,851	1,843	1,839	1,830	1,833	1,832
State .....	4,618	4,620	4,621	4,621	4,624	4,622	4,635	4,636	4,640	4,671	4,664	4,676	4,666
Education .....	1,922	1,925	1,927	1,928	1,931	1,929	1,938	1,943	1,950	1,972	1,961	1,974	1,955
Other State government .....	2,696	2,695	2,694	2,693	2,693	2,693	2,697	2,693	2,690	2,699	2,703	2,702	2,711
Local .....	12,139	12,142	12,165	12,185	12,207	12,214	12,236	12,226	12,305	12,359	12,450	12,377	12,392
Education .....	6,797	6,807	6,815	6,831	6,849	6,853	6,858	6,850	6,902	6,954	7,030	6,971	6,961
Other local government .....	5,342	5,335	5,350	5,354	5,358	5,361	5,378	5,376	5,403	5,405	5,420	5,406	5,431

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

P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1996

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

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1996					1997							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total</b> .....	58,057	58,118	58,242	58,340	58,464	58,539	58,618	58,740	58,904	58,987	59,125	59,332	59,378
<b>Total private</b> .....	47,268	47,338	47,473	47,564	47,661	47,729	47,791	47,907	48,048	48,130	48,215	48,370	48,343
<b>Goods-producing</b> .....	6,613	6,604	6,612	6,613	6,619	6,621	6,618	6,622	6,632	6,634	6,651	6,650	6,649
<b>Mining</b> .....	78	78	78	78	78	78	78	78	78	79	79	79	79
<b>Construction</b> .....	608	607	610	613	615	616	618	619	624	628	629	631	631
<b>Manufacturing</b> .....	5,927	5,919	5,924	5,922	5,926	5,927	5,922	5,925	5,930	5,927	5,943	5,940	5,939
<b>Durable goods</b> .....	2,841	2,838	2,842	2,845	2,849	2,856	2,857	2,861	2,867	2,868	2,884	2,890	2,899
Lumber and wood products .....	135	135	136	136	136	137	137	137	138	138	138	139	139
Furniture and fixtures .....	158	158	157	158	158	158	158	159	159	160	160	160	160
Stone, clay, and glass products .....	101	101	102	101	102	102	102	102	102	101	101	102	101
Primary metal industries .....	101	101	101	101	101	102	102	103	102	101	103	102	103
Fabricated metal products .....	319	320	321	321	322	323	322	322	324	324	326	325	327
Industrial machinery and equipment .....	457	456	458	459	461	463	465	467	469	471	473	475	477
Electronic and other electrical equipment .....	683	682	680	680	679	678	677	677	677	677	681	683	682
Transportation equipment .....	366	365	367	369	370	373	374	376	377	378	384	383	392
Instruments and related products .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Miscellaneous manufacturing .....	172	171	171	171	171	172	172	171	171	171	171	172	170
<b>Nondurable goods</b> .....	3,086	3,081	3,082	3,077	3,077	3,071	3,065	3,064	3,063	3,059	3,059	3,050	3,040
Food and kindred products .....	553	553	554	555	557	558	557	558	558	557	558	554	551
Tobacco products .....	12	13	13	13	13	13	13	13	12	13	12	13	12
Textile mill products .....	289	287	288	287	288	287	286	286	285	285	285	285	282
Apparel and other textile products .....	635	634	632	628	625	621	617	614	611	605	603	603	599
Paper and allied products .....	164	164	164	164	165	164	164	164	164	164	164	163	163
Printing and publishing .....	695	693	694	693	692	691	691	690	694	696	700	699	698
Chemicals and allied products .....	327	326	327	326	326	326	326	327	327	327	327	325	325
Petroleum and coal products .....	24	25	24	25	25	25	25	25	25	25	24	25	24
Rubber and misc. plastics products .....	335	335	335	335	335	335	336	336	337	337	337	335	338
Leather and leather products .....	52	51	51	51	51	51	50	51	50	50	49	48	48
<b>Service-producing</b> .....	51,444	51,514	51,630	51,727	51,845	51,918	52,000	52,118	52,272	52,353	52,474	52,682	52,729
<b>Transportation and public utilities</b> .....	1,920	1,920	1,916	1,921	1,905	1,927	1,931	1,936	1,941	1,944	1,943	1,940	1,893
<b>Wholesale trade</b> .....	2,005	2,013	2,019	2,023	2,025	2,033	2,036	2,043	2,045	2,049	2,050	2,054	2,056
<b>Retail trade</b> .....	11,420	11,436	11,485	11,513	11,550	11,536	11,523	11,562	11,603	11,609	11,633	11,679	11,687
<b>Finance, insurance, and real estate</b> .....	4,362	4,368	4,377	4,383	4,392	4,395	4,400	4,406	4,418	4,429	4,437	4,445	4,454
<b>Services</b> .....	20,948	20,997	21,064	21,111	21,170	21,217	21,283	21,338	21,409	21,465	21,501	21,602	21,604
<b>Government</b> .....	10,789	10,780	10,769	10,776	10,803	10,810	10,827	10,833	10,856	10,857	10,910	10,962	11,035
Federal .....	1,158	1,156	1,155	1,157	1,165	1,155	1,151	1,149	1,147	1,147	1,144	1,141	1,142
State .....	2,339	2,340	2,340	2,342	2,342	2,341	2,348	2,350	2,354	2,364	2,368	2,391	2,390
Local .....	7,292	7,284	7,274	7,277	7,296	7,314	7,328	7,334	7,355	7,346	7,398	7,430	7,503

<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.

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

NOTE: Establishment survey estimates are currently projected from

**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	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.P	Oct.P
<b>Total private</b> .....	82,586	82,726	82,892	83,043	83,318	83,476	83,664	83,865	83,965	84,243	84,097	84,392	84,628
<b>Goods-producing</b> .....	17,385	17,420	17,451	17,495	17,578	17,561	17,542	17,592	17,573	17,577	17,610	17,604	17,676
<b>Mining</b> .....	425	427	427	430	432	432	432	437	435	435	434	435	435
<b>Construction</b> .....	4,229	4,256	4,281	4,307	4,384	4,358	4,336	4,365	4,347	4,350	4,361	4,358	4,373
<b>Manufacturing</b> .....	12,731	12,737	12,743	12,758	12,762	12,771	12,774	12,790	12,791	12,792	12,815	12,811	12,868
<b>Durable goods</b> .....	7,379	7,390	7,398	7,417	7,427	7,437	7,440	7,454	7,466	7,482	7,525	7,512	7,556
Lumber and wood products .....	646	648	650	652	652	656	658	659	656	655	656	656	657
Furniture and fixtures .....	397	398	399	400	401	402	402	403	404	405	403	404	407
Stone, clay, and glass products .....	423	422	423	423	424	422	420	420	419	422	422	421	423
Primary metal industries .....	552	552	552	553	553	553	553	553	555	554	558	557	560
Fabricated metal products .....	1,094	1,096	1,097	1,099	1,101	1,103	1,107	1,107	1,109	1,106	1,116	1,115	1,119
Industrial machinery and equipment .....	1,319	1,320	1,324	1,331	1,336	1,342	1,349	1,350	1,354	1,356	1,361	1,360	1,371
Electronic and other electrical equipment .....	1,046	1,045	1,043	1,042	1,043	1,043	1,041	1,040	1,043	1,048	1,054	1,053	1,059
Transportation equipment .....	1,209	1,216	1,216	1,222	1,222	1,225	1,220	1,231	1,234	1,243	1,265	1,257	1,272
Motor vehicles and equipment .....	757	758	759	762	759	761	752	758	766	768	784	774	779
Instruments and related products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Miscellaneous manufacturing .....	271	271	272	273	273	271	271	272	271	272	271	269	268
<b>Nondurable goods</b> .....	5,352	5,347	5,345	5,341	5,335	5,334	5,334	5,336	5,325	5,310	5,290	5,299	5,312
Food and kindred products .....	1,249	1,252	1,256	1,260	1,257	1,261	1,263	1,257	1,256	1,248	1,242	1,249	1,254
Tobacco products .....	32	33	32	32	32	32	31	31	31	32	31	31	32
Textile mill products .....	525	522	522	522	519	519	517	516	515	516	512	514	514
Apparel and other textile products .....	694	690	686	683	680	675	671	670	667	665	658	654	653
Paper and allied products .....	517	517	517	517	517	516	516	517	515	514	513	514	515
Printing and publishing .....	838	837	836	834	834	834	839	846	847	846	842	839	844
Chemicals and allied products .....	570	569	568	567	567	567	567	568	566	565	566	570	572
Petroleum and coal products .....	92	92	92	91	92	92	92	92	91	91	91	91	91
Rubber and misc. plastics products .....	763	764	763	763	765	766	767	768	767	764	767	770	769
Leather and leather products .....	72	71	73	72	72	72	71	71	70	69	68	67	68
<b>Service-producing</b> .....	65,201	65,306	65,441	65,548	65,740	65,915	66,122	66,273	66,392	66,666	66,487	66,788	66,952
<b>Transportation and public utilities</b> .....	5,302	5,308	5,298	5,349	5,372	5,397	5,412	5,420	5,421	5,419	5,226	5,428	5,443
<b>Wholesale trade</b> .....	5,284	5,292	5,298	5,307	5,323	5,340	5,339	5,348	5,347	5,368	5,374	5,379	5,388
<b>Retail trade</b> .....	19,180	19,216	19,277	19,282	19,298	19,338	19,384	19,398	19,434	19,497	19,513	19,522	19,575
<b>Finance, insurance, and real estate</b> .....	5,066	5,069	5,077	5,088	5,099	5,103	5,124	5,135	5,137	5,154	5,161	5,167	5,183
<b>Services</b> .....	30,369	30,421	30,491	30,522	30,648	30,737	30,863	30,972	31,053	31,228	31,213	31,292	31,363

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

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries <sup>1</sup>												
Over 1-month span:												
1993 .....	59.7	61.0	49.6	57.6	61.5	56.2	55.5	58.3	62.2	59.6	61.7	59.3
1994 .....	57.6	61.9	67.1	64.5	57.7	63.9	62.5	62.6	61.4	60.3	63.8	62.4
1995 .....	62.4	60.1	54.5	55.6	48.0	53.9	54.1	59.8	57.0	54.9	57.2	57.9
1996 .....	51.7	64.3	60.1	54.9	62.9	60.5	56.5	59.3	54.4	62.6	58.1	61.0
1997 .....	59.3	59.1	59.0	61.1	57.4	50.7	58.8	58.7	P 55.5	P 62.6		
Over 3-month span:												
1993 .....	64.7	60.8	60.5	58.6	62.9	63.6	59.6	62.9	64.7	66.9	64.3	63.6
1994 .....	65.3	69.5	70.4	68.7	67.1	67.0	69.1	69.7	65.7	65.6	67.0	66.2
1995 .....	65.4	62.5	58.7	53.2	54.6	52.4	57.9	59.6	59.7	59.0	57.0	56.3
1996 .....	62.6	63.6	62.6	61.2	62.1	63.1	62.6	58.8	62.8	60.4	64.7	65.0
1997 .....	64.6	62.2	64.2	65.6	59.7	58.7	59.1	P 63.6	P 63.6			
Over 6-month span:												
1993 .....	62.9	64.6	64.3	64.3	62.2	65.6	66.0	64.9	66.3	66.7	69.4	69.2
1994 .....	71.1	69.8	69.8	70.9	70.1	69.8	69.7	69.4	69.4	67.4	67.7	66.2
1995 .....	66.9	61.4	58.1	56.6	58.1	58.1	56.7	59.8	60.3	59.1	61.5	63.3
1996 .....	62.2	63.5	63.5	63.5	62.6	61.2	65.3	63.6	62.6	64.5	64.2	67.4
1997 .....	67.6	66.6	64.5	64.6	64.3	P 64.5	P 66.9					
Over 12-month span:												
1993 .....	64.9	63.9	64.0	65.4	67.0	67.6	67.6	67.0	70.2	69.5	69.2	70.1
1994 .....	70.2	71.6	71.8	71.8	72.1	71.8	71.5	72.1	70.1	69.5	66.6	65.0
1995 .....	63.6	62.4	62.6	63.3	61.7	61.9	58.7	62.2	62.2	61.1	62.2	63.3
1996 .....	63.5	64.7	62.4	62.9	64.7	64.2	65.0	63.1	63.8	66.7	65.7	65.0
1997 .....	67.3	66.2	P 69.8	P 69.8								
Manufacturing payrolls, 139 industries <sup>1</sup>												
Over 1-month span:												
1993 .....	52.2	56.8	49.6	44.2	53.2	46.4	49.3	51.8	57.9	52.2	54.0	55.8
1994 .....	55.8	59.0	60.4	58.6	52.9	58.6	59.4	56.1	52.9	55.0	58.6	58.3
1995 .....	54.3	56.1	44.2	51.4	42.1	42.8	43.5	52.2	47.1	50.0	47.5	50.7
1996 .....	45.7	54.3	47.8	39.2	52.2	52.2	44.2	52.9	44.2	50.7	49.6	52.2
1997 .....	54.0	50.4	52.9	52.9	51.4	49.3	51.8	49.6	P 54.3	P 57.6		
Over 3-month span:												
1993 .....	61.5	59.0	54.0	46.8	48.6	54.3	51.1	58.3	57.2	59.4	54.7	58.3
1994 .....	61.9	64.7	65.5	59.7	57.6	60.1	62.2	57.9	55.0	55.4	60.1	59.4
1995 .....	59.7	50.4	47.5	40.3	42.4	36.3	38.5	43.9	49.3	46.4	45.3	43.9
1996 .....	47.5	47.8	42.1	38.5	43.2	45.0	48.9	43.2	50.4	46.4	52.5	52.5
1997 .....	53.2	51.4	50.7	52.5	48.6	48.9	48.6	P 53.2	P 54.7			
Over 6-month span:												
1993 .....	55.8	58.6	58.6	55.8	51.8	57.2	59.7	57.2	57.6	58.3	62.6	60.8
1994 .....	62.2	62.2	62.6	63.3	59.4	56.5	56.5	58.6	58.6	55.0	58.3	55.0
1995 .....	55.8	48.6	43.9	38.8	39.2	39.6	38.8	39.6	43.9	45.0	44.2	44.6
1996 .....	41.4	41.7	41.0	38.1	39.6	40.6	47.5	46.8	45.3	50.4	48.2	53.2
1997 .....	53.2	53.2	50.4	49.3	48.6	P 51.4	P 57.2					
Over 12-month span:												
1993 .....	56.8	57.9	55.8	58.6	57.2	57.6	58.6	59.0	61.2	59.7	60.1	57.6
1994 .....	57.9	58.6	60.8	60.8	60.8	63.3	59.4	60.1	57.2	56.5	50.4	49.6
1995 .....	46.0	44.2	46.0	47.8	41.0	41.7	38.5	38.8	36.3	37.4	38.1	39.9
1996 .....	39.6	42.8	39.2	39.6	42.4	40.3	43.5	40.3	43.5	46.8	46.4	47.1
1997 .....	51.4	47.8	P 52.5	P 55.4								

<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 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1996) and all seasonally adjusted data (beginning January 1993) are subject to revision.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
	Total <sup>1</sup>												
Alabama	1,829.8	1,831.0	1,834.8	1,836.5	1,837.3	1,839.6	1,847.3	1,844.0	1,847.5	1,841.8	1,845.2	1,846.4	1,844.7
Alaska	262.8	262.9	262.8	263.0	262.6	262.8	263.2	264.4	265.4	265.1	267.0	266.7	266.6
Arizona	1,922.6	1,926.3	1,936.8	1,937.1	1,934.5	1,950.2	1,956.9	1,960.4	1,972.1	1,974.7	1,980.5	1,982.2	1,993.4
Arkansas	1,087.7	1,089.0	1,090.6	1,092.7	1,090.0	1,092.5	1,094.6	1,095.7	1,097.9	1,099.1	1,095.6	1,096.0	1,099.2
California	12,840.1	12,888.3	12,931.2	12,944.5	12,960.1	13,004.1	13,052.6	13,070.3	13,107.3	13,128.5	13,143.0	13,150.2	13,202.0
Colorado	1,911.5	1,913.2	1,919.1	1,921.5	1,922.0	1,933.3	1,938.6	1,933.5	1,935.8	1,938.9	1,940.3	1,938.9	1,948.1
Connecticut	1,590.9	1,592.5	1,595.3	1,596.5	1,593.6	1,597.4	1,598.6	1,602.6	1,607.0	1,613.2	1,620.5	1,620.5	1,622.6
Delaware	378.6	379.3	380.3	382.1	381.5	383.9	385.0	386.1	387.6	388.1	388.5	389.5	392.3
District of Columbia	620.7	619.7	619.0	620.7	618.0	621.3	619.6	615.8	613.2	614.9	618.1	614.1	612.4
Florida	6,228.7	6,237.6	6,268.2	6,283.3	6,297.4	8,316.7	6,330.6	6,358.5	6,384.0	6,399.1	6,404.6	6,414.9	6,457.8
Georgia	3,527.7	3,546.4	3,558.8	3,571.0	3,555.0	3,558.1	3,567.7	3,573.9	3,584.4	3,588.9	3,609.4	3,622.8	3,644.5
Hawaii	528.4	529.2	526.8	528.2	532.3	530.9	528.8	529.0	528.1	528.1	527.1	529.0	530.6
Idaho	494.1	497.7	497.8	498.0	497.2	499.0	500.5	501.3	503.5	501.2	502.9	502.1	498.7
Illinois	5,700.5	5,694.9	5,704.5	5,714.4	5,699.8	5,708.8	5,721.7	5,733.2	5,743.3	5,752.1	5,752.9	5,753.4	5,764.5
Indiana	2,828.6	2,826.9	2,827.5	2,825.7	2,814.9	2,823.2	2,833.8	2,839.1	2,852.2	2,855.1	2,842.9	2,850.6	2,843.3
Iowa	1,375.6	1,383.6	1,386.9	1,392.1	1,391.4	1,393.3	1,395.5	1,400.7	1,403.2	1,407.2	1,404.4	1,403.0	1,403.2
Kansas	1,230.1	1,242.4	1,251.0	1,247.4	1,247.6	1,250.5	1,258.8	1,257.8	1,263.2	1,263.4	1,266.7	1,263.7	1,267.1
Kentucky	1,674.0	1,679.6	1,680.9	1,688.6	1,689.2	1,691.9	1,701.6	1,704.3	1,709.7	1,708.7	1,711.2	1,706.4	1,716.5
Louisiana	1,819.4	1,824.2	1,827.8	1,829.6	1,828.2	1,831.0	1,833.1	1,837.9	1,835.8	1,839.2	1,838.9	1,837.0	1,841.2
Maine	542.1	541.0	541.2	540.8	545.2	545.7	546.5	546.3	548.4	548.0	549.8	551.2	553.5
Maryland	2,214.5	2,215.7	2,220.3	2,223.1	2,225.6	2,238.1	2,243.5	2,238.5	2,244.7	2,254.2	2,253.8	2,246.7	2,255.2
Massachusetts	3,058.9	3,064.7	3,071.7	3,075.9	3,071.4	3,075.7	3,083.3	3,090.7	3,103.1	3,107.3	3,115.0	3,117.6	3,128.0
Michigan	4,367.5	4,369.8	4,371.0	4,376.2	4,377.9	4,398.1	4,401.4	4,398.6	4,409.8	4,406.2	4,401.1	4,402.0	4,417.2
Minnesota	2,442.6	2,441.6	2,448.5	2,453.7	2,455.6	2,465.5	2,474.1	2,468.4	2,478.7	2,487.7	2,489.4	2,489.4	2,493.8
Mississippi	1,095.3	1,094.8	1,096.2	1,096.5	1,093.2	1,093.8	1,097.2	1,099.1	1,101.7	1,097.7	1,099.9	1,104.6	1,103.0
Missouri	2,558.5	2,579.5	2,584.3	2,592.8	2,584.1	2,599.8	2,599.6	2,597.9	2,609.0	2,611.9	2,601.5	2,610.5	2,613.9
Montana	357.4	360.8	362.9	360.6	359.6	361.5	362.3	363.1	365.1	364.4	364.4	364.4	363.2
Nebraska	835.3	839.2	843.0	843.4	848.6	848.6	852.5	848.7	847.5	848.7	853.2	847.4	854.4
Nevada	856.9	859.3	869.4	869.9	874.1	879.4	882.8	886.8	890.6	898.3	898.8	896.9	903.9
New Hampshire	563.3	565.9	565.6	566.6	566.1	566.4	568.0	568.0	572.8	574.4	579.5	576.2	572.6
New Jersey	3,658.6	3,660.8	3,665.9	3,668.7	3,678.2	3,686.1	3,691.0	3,692.0	3,694.5	3,701.0	3,706.1	3,697.7	3,717.6
New Mexico	695.0	696.4	698.2	700.6	699.0	700.1	701.1	701.6	702.8	707.8	708.2	707.1	708.7
New York	7,939.9	7,952.0	7,959.1	7,963.4	7,942.0	7,958.0	7,977.3	7,984.4	7,994.4	8,001.4	8,015.0	8,016.1	8,041.4
North Carolina	3,571.2	3,599.5	3,608.6	3,615.8	3,619.8	3,617.1	3,628.4	3,629.9	3,636.8	3,634.0	3,628.0	3,631.4	3,647.0
North Dakota	310.4	310.3	312.0	312.5	312.6	314.3	314.0	312.6	315.3	318.0	318.0	318.4	318.8
Ohio	5,310.1	5,316.5	5,317.5	5,329.7	5,326.9	5,335.6	5,339.0	5,335.3	5,347.7	5,357.9	5,351.6	5,360.1	5,360.9
Oklahoma	1,359.1	1,368.6	1,373.1	1,376.6	1,377.7	1,380.3	1,384.2	1,378.9	1,386.4	1,387.8	1,391.8	1,402.1	1,401.4
Oregon	1,488.0	1,491.7	1,500.9	1,501.6	1,504.2	1,512.6	1,510.8	1,519.6	1,523.5	1,526.1	1,529.6	1,527.3	1,531.3
Pennsylvania	5,339.7	5,345.0	5,350.6	5,361.4	5,367.8	5,388.2	5,393.0	5,407.7	5,422.2	5,420.4	5,421.7	5,414.6	5,450.2
Rhode Island	445.1	444.2	445.8	445.6	442.6	442.5	444.1	444.9	445.1	444.3	443.9	445.9	448.3
South Carolina	1,681.9	1,678.6	1,691.4	1,684.1	1,680.2	1,685.1	1,691.0	1,696.7	1,703.3	1,706.5	1,707.9	1,708.3	1,711.4
South Dakota	350.0	350.2	351.1	351.4	350.1	351.8	349.9	349.5	354.4	352.4	353.9	353.2	354.5
Tennessee	2,543.4	2,542.1	2,551.4	2,556.2	2,553.3	2,558.6	2,554.9	2,552.0	2,550.1	2,555.5	2,547.2	2,550.5	2,561.5
Texas	8,280.4	8,319.0	8,335.2	8,353.0	8,329.1	8,374.7	8,391.5	8,415.5	8,442.2	8,447.0	8,465.2	8,486.1	8,514.3
Utah	982.7	985.3	969.5	973.6	974.9	979.0	980.3	982.6	989.2	994.7	996.8	997.8	1,003.2
Vermont	274.6	278.2	276.2	275.9	277.1	277.6	277.2	278.0	278.5	279.3	279.0	278.2	278.6
Virginia	3,144.9	3,159.3	3,165.0	3,175.8	3,184.9	3,193.9	3,199.3	3,194.9	3,200.9	3,200.8	3,212.9	3,219.5	3,228.8
Washington	2,423.7	2,434.9	2,440.0	2,448.3	2,452.8	2,456.6	2,467.4	2,473.8	2,485.0	2,499.6	2,508.7	2,512.9	2,518.7
West Virginia	699.2	700.7	702.6	701.5	701.5	703.7	708.2	708.5	707.9	709.9	709.5	711.2	712.3
Wisconsin	2,615.1	2,620.8	2,628.5	2,629.0	2,624.4	2,627.8	2,635.0	2,637.3	2,645.1	2,651.1	2,647.6	2,651.8	2,658.3
Wyoming	222.1	222.7	221.7	221.7	221.0	221.4	222.1	221.0	221.7	220.2	221.7	221.2	222.2

See footnotes at end of table.



ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED

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

(In thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
	Construction												
Alabama .....	95.0	95.0	96.5	96.5	97.8	98.2	99.9	98.9	100.3	98.8	98.5	98.3	98.3
Alaska .....	12.3	12.4	12.6	12.8	12.6	12.1	11.8	12.2	12.5	12.5	12.6	12.6	12.6
Arizona .....	127.4	128.4	129.0	129.2	126.4	127.0	127.8	129.3	132.0	132.6	133.9	133.0	133.5
Arkansas .....	48.2	48.2	48.1	48.3	47.4	48.1	49.1	49.4	49.5	49.7	49.7	50.0	50.5
California .....	516.7	522.9	528.8	527.4	537.8	548.1	549.5	548.5	552.4	553.3	559.7	564.6	567.0
Colorado .....	112.9	112.9	114.6	114.7	111.7	115.8	115.9	116.4	116.7	116.2	116.3	116.5	118.1
Connecticut .....	52.8	52.3	51.9	51.7	51.9	52.6	53.1	53.7	54.7	55.7	55.7	55.9	56.6
Delaware .....	21.2	21.4	21.5	21.9	21.6	22.1	22.1	22.1	22.3	22.8	22.6	22.8	23.0
District of Columbia .....	8.5	8.5	8.5	8.5	8.5	9.1	9.0	8.6	8.7	8.8	8.9	8.4	8.2
Florida .....	323.7	323.1	324.0	324.9	325.9	329.2	328.9	329.7	331.4	335.1	335.6	335.9	337.0
Georgia .....	163.3	163.9	164.8	165.8	164.1	165.2	164.0	165.5	164.8	164.7	165.4	166.8	168.7
Hawaii <sup>2</sup> .....	23.2	23.1	20.7	22.7	22.4	22.4	21.8	21.5	21.3	21.4	21.1	20.9	21.0
Idaho .....	30.3	30.9	30.5	30.4	30.2	30.7	31.5	32.2	33.0	33.0	33.1	33.4	33.5
Illinois .....	221.7	221.4	222.1	223.2	220.5	219.1	220.0	225.8	222.3	224.2	225.0	225.4	225.2
Indiana .....	132.5	131.7	131.1	132.9	131.0	132.9	133.9	137.6	138.5	137.3	135.4	135.0	134.2
Iowa .....	57.9	58.6	58.8	61.3	59.1	60.7	60.9	63.0	62.5	62.0	61.9	61.2	61.3
Kansas .....	56.6	57.1	57.5	58.2	56.7	58.1	60.2	60.0	60.6	60.3	60.6	60.7	61.3
Kentucky .....	78.3	78.1	78.3	77.8	79.8	78.7	79.0	78.6	78.9	77.0	78.0	77.7	77.8
Louisiana .....	112.1	113.0	113.7	113.6	112.8	114.1	111.6	114.2	113.6	114.1	114.3	115.8	114.3
Maine .....	23.5	23.8	23.7	23.6	23.8	23.5	23.7	23.4	23.6	24.0	24.2	24.5	24.4
Maryland .....	131.0	131.8	132.8	133.3	137.6	139.2	140.7	139.0	138.5	138.9	138.1	138.3	137.9
Massachusetts .....	95.2	95.4	95.9	97.0	97.2	98.3	98.2	98.4	99.9	98.7	98.9	98.9	98.7
Michigan .....	170.0	170.5	171.0	172.9	173.3	179.7	180.5	183.4	184.8	186.6	187.0	188.8	187.7
Minnesota .....	89.4	89.0	89.0	89.7	92.3	92.3	92.3	91.3	92.6	93.1	92.5	92.9	93.2
Mississippi .....	48.4	48.3	49.3	49.6	48.5	48.1	48.0	48.7	49.1	48.4	48.9	50.2	50.1
Missouri .....	115.7	117.7	118.4	120.5	117.7	121.7	118.5	116.0	117.8	117.1	116.8	118.7	121.4
Montana .....	16.9	17.8	17.8	17.5	16.8	17.4	17.3	17.2	18.4	18.0	18.4	19.0	18.1
Nebraska .....	37.1	36.8	37.0	37.1	38.3	38.6	39.0	38.0	38.2	37.8	37.8	37.5	37.6
Nevada .....	78.9	79.3	80.4	80.0	80.2	81.5	81.4	83.2	83.4	84.5	84.5	84.5	85.1
New Hampshire .....	21.3	21.5	21.5	21.6	21.2	21.1	21.2	21.0	22.1	21.6	21.0	21.3	21.6
New Jersey .....	125.7	124.4	124.2	124.0	125.0	125.4	126.3	125.7	126.6	126.5	126.3	127.6	128.5
New Mexico .....	42.3	41.8	41.3	41.5	41.4	41.9	42.0	41.3	41.7	41.8	42.2	42.3	42.4
New York .....	260.9	260.5	260.2	261.4	251.2	253.9	257.9	259.4	260.8	262.0	263.8	267.3	269.0
North Carolina .....	191.2	193.1	194.1	194.6	198.2	200.3	200.5	199.7	199.2	197.8	198.2	199.4	201.4
North Dakota .....	15.1	14.9	15.2	15.5	15.6	15.9	15.8	14.8	15.7	18.9	16.9	16.8	16.5
Ohio .....	214.1	215.6	214.6	217.2	215.4	217.7	217.7	219.9	220.8	222.4	219.6	218.7	219.9
Oklahoma .....	50.4	50.8	50.8	51.5	51.0	51.7	52.2	51.5	51.7	51.7	51.6	52.1	52.5
Oregon .....	80.2	81.3	81.3	81.5	81.8	81.9	79.5	81.7	83.5	85.6	85.6	86.2	87.3
Pennsylvania .....	204.6	205.4	204.6	205.8	211.6	214.2	213.0	214.4	214.2	218.2	215.5	215.5	216.4
Rhode Island .....	13.3	13.5	13.4	13.3	13.9	14.3	14.8	15.1	14.8	14.2	14.5	14.9	14.8
South Carolina .....	94.5	94.6	94.7	95.2	95.8	96.3	96.6	96.1	97.3	98.9	98.5	98.9	98.9
South Dakota .....	14.8	14.7	14.6	14.8	14.8	14.7	14.3	14.1	15.0	14.9	15.0	15.1	15.4
Tennessee .....	113.5	114.2	114.9	114.7	115.1	115.8	114.5	114.5	118.0	117.8	118.7	119.2	119.8
Texas .....	437.4	444.0	444.5	445.1	437.1	447.3	449.2	451.1	456.0	458.8	457.7	460.5	461.7
Utah .....	60.8	61.2	61.6	61.9	62.0	62.1	61.5	61.4	63.9	65.1	66.3	66.2	67.1
Vermont .....	13.1	13.2	12.8	12.8	12.8	12.6	12.2	12.3	12.2	12.1	12.2	12.3	12.2
Virginia .....	177.0	176.6	177.1	178.2	183.1	184.5	184.5	183.0	183.0	182.5	182.4	182.8	181.9
Washington .....	128.4	129.4	129.7	130.1	130.6	130.6	131.1	132.4	132.5	133.0	133.3	134.3	134.7
West Virginia .....	35.4	35.2	35.1	35.2	35.4	35.7	36.8	36.2	35.0	35.5	36.0	36.5	35.8
Wisconsin .....	109.1	108.7	108.9	108.9	107.8	106.8	109.0	110.0	111.4	113.0	112.9	112.7	110.9
Wyoming .....	14.6	14.6	14.4	14.6	14.6	14.3	14.2	13.9	14.2	13.7	14.0	14.5	14.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.P
	Manufacturing												
Alabama .....	380.6	380.7	381.4	381.5	382.5	382.1	383.1	380.9	380.4	378.2	378.4	378.8	375.5
Alaska .....	15.3	16.1	16.2	16.0	16.2	15.9	16.6	16.8	16.8	15.3	15.0	14.9	15.1
Arizona .....	200.4	200.8	200.9	200.7	201.6	202.6	203.2	203.4	203.9	204.6	206.0	207.0	208.4
Arkansas .....	252.2	252.7	252.3	252.3	251.5	252.9	251.9	252.7	253.0	252.8	250.6	250.4	251.4
California .....	1,861.6	1,867.0	1,870.0	1,871.5	1,870.4	1,875.5	1,882.7	1,888.0	1,891.0	1,895.8	1,897.8	1,897.4	1,902.8
Colorado .....	196.3	196.3	196.4	197.0	196.8	197.5	197.6	197.6	197.3	197.1	198.4	199.6	200.4
Connecticut .....	274.2	274.7	275.0	275.2	274.1	274.4	273.6	274.4	273.9	274.5	275.5	276.2	273.7
Delaware .....	56.1	56.3	56.5	56.8	57.6	57.9	58.1	58.2	58.4	58.7	58.4	58.8	59.5
District of Columbia .....	13.0	13.0	13.1	13.3	13.0	13.1	13.2	13.2	13.5	13.6	13.6	13.6	13.7
Florida .....	492.1	492.2	492.0	493.0	492.4	492.4	492.4	491.8	493.0	493.9	494.0	493.0	493.1
Georgia .....	585.3	588.7	588.1	587.9	587.6	588.6	588.8	587.6	588.9	587.7	587.0	586.6	586.4
Hawaii .....	16.4	16.6	16.4	16.5	16.5	16.5	16.4	16.5	16.4	16.4	18.3	16.2	15.9
Idaho .....	72.5	72.8	72.9	73.0	73.3	73.2	73.1	73.8	73.7	72.8	72.9	73.7	74.3
Illinois .....	973.5	974.7	975.8	976.5	977.0	980.8	979.2	978.8	978.3	978.7	979.0	979.2	977.0
Indiana .....	672.8	671.7	671.6	671.6	671.9	673.3	673.6	672.4	672.9	670.6	670.4	673.5	671.2
Iowa .....	246.4	247.6	247.9	248.1	248.7	247.1	247.0	248.9	249.0	248.9	248.7	249.2	249.1
Kansas .....	197.4	198.5	198.9	199.3	199.3	199.7	200.9	201.8	202.1	203.8	204.4	205.3	206.0
Kentucky .....	310.8	312.8	312.7	310.8	313.4	312.5	315.6	314.4	312.9	315.1	315.2	315.5	316.7
Louisiana .....	188.7	187.9	188.2	188.4	188.0	188.6	187.6	189.2	187.9	190.0	190.1	189.3	188.6
Maine .....	87.7	87.5	87.6	87.4	87.8	87.7	87.9	87.7	88.0	87.7	87.0	88.3	88.1
Maryland .....	173.9	173.5	173.4	173.3	173.6	174.1	174.1	173.7	173.2	173.6	172.9	173.2	171.5
Massachusetts .....	442.5	443.0	442.8	443.4	445.0	445.1	445.5	445.5	446.4	447.1	448.5	448.8	448.5
Michigan .....	971.9	966.7	964.6	962.0	964.3	963.9	962.8	956.6	957.7	952.4	952.1	957.1	950.8
Minnesota .....	429.3	427.3	428.5	429.7	432.4	433.0	433.9	435.6	436.8	436.7	436.5	435.7	435.5
Mississippi .....	244.3	242.8	241.8	241.6	242.0	242.0	243.0	242.4	243.3	242.2	243.2	240.1	238.9
Missouri .....	408.1	412.5	412.0	410.6	411.0	412.9	411.8	408.7	410.8	409.7	404.4	413.0	408.8
Montana .....	23.8	23.8	23.9	23.7	23.7	23.9	23.9	24.0	24.1	24.1	24.1	24.3	24.2
Nebraska .....	113.6	114.3	114.7	114.8	114.1	114.5	114.9	114.6	114.9	115.0	116.6	114.6	114.7
Nevada .....	38.9	39.1	39.5	39.5	39.5	39.6	39.7	39.7	39.9	39.9	39.9	39.9	40.3
New Hampshire .....	105.0	105.0	104.8	105.0	105.3	106.1	106.5	106.4	106.9	107.0	107.9	106.9	107.0
New Jersey .....	483.8	482.6	483.2	483.3	487.1	485.3	484.4	485.5	482.8	482.5	481.9	481.4	479.3
New Mexico .....	45.7	45.6	45.8	45.8	45.9	46.1	46.1	46.2	46.2	46.7	46.8	46.6	46.6
New York .....	919.2	917.1	916.1	916.3	915.3	913.7	915.2	915.4	916.0	917.3	919.8	920.0	919.2
North Carolina .....	843.1	845.4	844.8	844.4	844.1	841.5	842.6	840.6	841.4	842.6	842.7	839.4	840.2
North Dakota .....	21.7	21.8	21.9	22.1	22.1	22.2	22.2	22.5	22.9	23.0	23.0	23.3	22.7
Ohio .....	1,093.7	1,093.4	1,085.3	1,088.2	1,086.5	1,085.1	1,090.4	1,085.6	1,084.3	1,083.5	1,073.4	1,084.7	1,082.5
Oklahoma .....	175.1	176.0	176.0	176.7	176.9	177.0	177.0	173.7	174.4	177.9	178.4	179.6	180.1
Oregon .....	236.4	236.7	237.9	238.6	240.3	240.8	242.0	243.5	245.5	245.0	245.3	243.5	244.5
Pennsylvania .....	929.0	929.0	930.1	930.4	931.3	932.6	932.8	934.1	933.9	933.7	932.0	932.7	934.9
Rhode Island .....	82.0	81.7	81.6	81.5	81.2	80.5	80.3	80.7	81.5	81.1	80.0	80.5	80.6
South Carolina .....	362.7	361.6	359.7	359.3	359.7	360.7	361.5	360.3	360.8	360.3	359.5	358.2	357.2
South Dakota .....	47.8	48.2	48.3	48.5	48.6	49.0	49.0	49.1	49.6	49.7	50.3	49.0	48.7
Tennessee .....	522.4	521.5	520.6	520.5	520.0	520.9	516.9	518.1	514.8	514.9	512.8	513.7	512.0
Texas .....	1,057.3	1,059.7	1,060.5	1,061.6	1,058.9	1,061.9	1,063.5	1,067.2	1,069.0	1,069.3	1,069.5	1,071.8	1,073.9
Utah .....	129.8	129.7	130.3	130.9	131.0	130.9	130.4	130.9	131.4	131.8	131.4	131.9	131.7
Vermont .....	46.0	45.8	46.1	46.0	46.1	46.3	46.2	46.0	46.6	46.5	46.8	46.6	46.9
Virginia .....	397.4	397.0	397.8	399.1	398.0	398.5	398.4	397.8	397.4	397.0	395.6	395.3	393.7
Washington .....	347.3	351.1	352.9	356.5	357.6	359.0	360.8	361.4	364.4	367.0	370.2	372.2	373.2
West Virginia .....	81.6	81.4	81.4	81.2	81.7	81.1	81.7	81.8	82.3	82.0	82.0	82.0	82.7
Wisconsin .....	601.2	602.0	600.8	599.5	599.4	600.5	600.1	602.6	603.4	603.5	602.2	605.4	604.2
Wyoming .....	10.7	10.7	10.8	10.7	10.7	10.8	10.7	10.8	11.1	10.9	10.9	10.8	10.6

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	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
	Transportation and public utilities												
Alabama .....	90.1	90.2	90.1	90.0	90.0	90.0	90.5	90.5	90.3	90.0	90.3	88.7	90.7
Alaska .....	22.5	22.6	22.5	22.6	22.7	22.9	22.9	23.3	23.8	23.5	23.4	23.3	23.6
Arizona .....	93.8	94.3	94.4	94.9	94.8	95.0	95.1	95.4	95.7	95.2	96.0	93.3	97.2
Arkansas .....	64.6	64.5	64.7	64.8	65.4	65.3	65.8	65.9	66.1	65.8	65.5	64.0	65.1
California .....	645.1	645.2	646.3	645.4	651.6	654.1	654.4	655.8	659.7	660.5	659.7	635.6	661.4
Colorado .....	119.9	119.2	119.2	117.8	118.0	117.9	117.1	117.2	115.7	116.6	115.3	112.4	115.3
Connecticut .....	73.0	73.2	73.5	73.0	73.4	73.7	74.0	74.7	75.5	76.0	76.1	73.4	75.1
Delaware .....	15.8	15.8	15.7	15.7	15.7	15.9	15.7	15.8	15.8	15.9	16.4	16.0	16.3
District of Columbia .....	18.7	18.9	19.0	19.3	19.2	19.2	19.0	18.7	18.6	18.5	18.2	18.2	18.3
Florida .....	315.3	316.6	318.3	322.1	321.9	322.0	323.5	323.3	322.8	324.0	324.1	316.9	325.3
Georgia .....	221.6	222.2	222.6	223.3	223.6	223.8	225.2	225.4	226.6	228.1	230.7	225.9	233.4
Hawaii .....	40.9	41.1	41.2	41.1	41.2	41.0	41.4	41.2	41.0	40.8	41.2	40.7	40.8
Idaho .....	23.2	23.6	23.6	23.5	23.4	23.1	23.2	23.3	23.5	23.7	23.7	23.4	23.6
Illinois .....	330.1	333.0	333.3	334.9	338.5	338.6	339.1	340.5	341.0	342.3	341.4	327.2	342.1
Indiana .....	138.5	139.1	139.1	139.7	138.6	139.2	139.8	140.4	140.4	140.1	138.7	136.4	140.4
Iowa .....	63.3	64.0	64.2	64.2	64.9	64.9	65.1	65.3	65.3	65.0	65.6	63.1	65.9
Kansas .....	70.1	70.2	70.3	70.4	70.9	71.5	71.9	72.5	72.4	72.7	71.9	70.4	73.0
Kentucky .....	93.5	93.9	93.4	95.9	95.7	95.9	96.0	96.4	96.5	96.4	97.5	88.5	97.0
Louisiana .....	109.0	108.9	108.7	108.5	109.1	108.6	109.1	109.6	109.9	109.5	110.2	108.7	110.4
Maine .....	22.3	22.3	22.4	22.5	22.8	22.7	22.6	22.6	22.7	22.5	22.6	21.8	22.8
Maryland .....	106.6	106.6	106.4	105.8	107.6	108.6	108.6	107.1	108.0	108.2	108.2	104.2	107.9
Massachusetts .....	129.7	132.1	131.6	131.8	131.3	131.9	132.2	131.5	132.0	132.0	131.9	127.5	132.1
Michigan .....	168.8	168.6	167.8	168.7	168.2	169.8	169.9	168.4	168.8	169.2	169.6	165.0	171.0
Minnesota .....	120.1	120.7	120.3	120.4	121.4	121.9	122.3	122.4	122.8	123.2	122.8	119.5	123.7
Mississippi .....	52.9	52.5	52.6	52.5	52.8	52.7	52.5	52.2	52.5	51.7	52.0	50.2	52.1
Missouri .....	159.4	161.4	161.9	162.1	161.9	162.1	162.2	162.4	162.5	162.6	161.5	158.9	156.5
Montana .....	20.6	20.4	20.7	20.3	20.5	20.5	20.7	20.3	20.6	20.3	20.1	19.8	20.4
Nebraska .....	50.1	50.6	50.7	50.4	50.9	51.3	52.1	52.4	53.0	52.9	52.9	50.8	51.2
Nevada .....	42.6	42.7	43.0	43.2	43.3	43.5	43.8	44.0	44.2	44.4	44.7	43.4	44.9
New Hampshire .....	19.5	19.6	19.7	19.6	19.6	19.6	19.6	19.5	19.4	19.8	20.2	20.1	19.5
New Jersey .....	255.9	256.0	256.0	256.4	255.8	256.9	257.5	257.4	257.5	257.6	257.1	247.2	258.5
New Mexico .....	31.0	30.9	30.7	30.6	30.7	30.8	30.8	30.9	31.1	31.3	31.3	30.4	31.4
New York .....	401.6	403.0	402.7	401.9	407.2	407.2	407.9	408.0	406.2	406.4	406.9	393.8	407.5
North Carolina .....	167.7	169.2	170.0	170.0	170.7	171.7	172.8	173.3	172.9	173.1	173.2	167.2	170.2
North Dakota .....	18.3	18.4	18.4	18.3	18.5	18.5	18.4	18.6	18.4	18.5	18.5	18.5	18.5
Ohio .....	232.1	231.9	232.6	232.3	234.8	235.2	235.3	234.6	234.5	233.6	233.4	225.9	234.5
Oklahoma .....	76.8	77.7	77.7	77.7	77.8	77.5	77.4	77.8	78.2	78.7	79.0	78.4	79.3
Oregon .....	73.5	73.9	73.6	72.5	73.7	74.3	73.8	74.3	73.8	73.3	73.0	70.2	73.4
Pennsylvania .....	272.7	271.6	272.0	271.3	271.5	271.9	271.9	272.2	273.3	272.0	272.5	261.7	273.3
Rhode Island .....	15.1	15.0	15.2	15.1	14.9	14.8	15.0	15.0	14.9	15.0	15.2	14.5	15.1
South Carolina .....	73.9	73.8	73.9	74.0	74.0	73.5	74.0	75.1	75.0	74.4	74.7	72.8	75.1
South Dakota .....	16.4	16.6	16.5	16.6	16.5	16.4	16.2	15.9	16.1	15.9	15.9	15.2	15.9
Tennessee .....	142.6	142.4	143.0	143.3	142.7	143.1	143.1	143.1	142.5	141.1	141.3	136.3	142.4
Texas .....	489.2	489.9	490.5	492.8	492.0	492.8	493.3	493.6	496.4	496.8	500.4	490.3	502.0
Utah .....	54.7	54.5	54.9	55.0	55.1	55.4	55.4	56.1	56.4	56.5	56.8	54.9	56.8
Vermont .....	12.1	12.3	12.3	12.3	12.3	12.3	12.4	12.4	12.5	12.5	12.4	11.8	12.0
Virginia .....	162.4	164.1	164.8	164.3	165.2	165.2	165.7	165.5	166.4	166.8	167.7	164.3	169.3
Washington .....	123.4	123.7	123.9	124.2	124.7	124.7	125.7	125.6	125.8	125.5	125.6	122.7	126.1
West Virginia .....	38.8	39.0	39.2	39.1	38.3	38.5	38.6	38.6	38.7	38.7	38.4	37.7	38.4
Wisconsin .....	121.5	121.2	121.5	121.4	121.2	120.6	121.0	121.4	122.5	122.3	122.2	118.1	122.1
Wyoming .....	13.9	13.8	13.9	13.6	13.6	13.5	13.8	13.6	13.8	13.7	13.8	13.8	13.9

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	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.P
	Trade												
Alabama .....	421.2	420.4	420.8	421.4	421.3	421.7	424.0	422.6	423.9	422.8	423.7	423.5	423.0
Alaska .....	54.9	54.3	54.1	54.3	54.1	54.2	54.2	54.2	55.2	55.7	56.2	56.3	55.8
Arizona .....	470.1	470.3	473.3	473.4	476.1	481.1	483.6	482.0	484.7	484.8	486.9	487.3	488.3
Arkansas .....	248.3	248.3	249.1	249.5	248.0	248.0	249.2	249.2	250.1	250.4	250.9	250.8	250.3
California .....	2,981.5	2,983.9	2,998.0	2,999.9	2,983.8	2,998.2	3,007.9	3,015.5	3,022.8	3,025.1	3,026.7	3,026.5	3,030.6
Colorado .....	468.8	469.3	470.5	470.5	467.6	470.5	471.6	472.5	471.4	474.3	474.8	477.1	476.4
Connecticut .....	347.4	347.6	349.1	349.9	350.0	349.0	349.7	347.9	349.3	352.4	353.4	355.5	355.8
Delaware .....	84.5	84.9	85.3	85.5	84.8	85.4	86.0	86.1	86.0	85.6	85.6	85.4	86.3
District of Columbia .....	49.9	50.2	50.1	50.3	50.1	50.4	50.2	49.6	48.6	48.8	49.1	49.0	49.2
Florida .....	1,619.6	1,624.6	1,631.4	1,635.1	1,633.9	1,640.7	1,644.6	1,652.1	1,656.8	1,660.1	1,659.8	1,666.9	1,676.1
Georgia .....	896.9	902.1	907.9	915.1	903.9	902.3	905.8	908.0	909.9	912.0	916.4	923.6	925.9
Hawaii .....	135.0	135.2	135.3	135.0	135.3	135.9	135.4	135.1	135.0	134.5	133.8	133.9	134.1
Idaho .....	125.9	126.2	126.3	126.9	127.4	127.9	128.7	128.4	128.5	127.5	126.5	125.6	123.7
Illinois .....	1,307.8	1,306.8	1,308.9	1,312.0	1,297.0	1,299.9	1,304.0	1,301.9	1,304.7	1,304.1	1,300.9	1,300.4	1,304.0
Indiana .....	683.9	683.6	684.0	683.5	678.2	679.4	681.3	685.0	687.6	689.5	688.9	688.3	688.1
Iowa .....	339.8	339.4	340.6	340.7	340.5	339.5	339.9	340.4	341.3	342.1	342.3	343.4	342.7
Kansas .....	304.0	306.2	306.4	306.9	309.1	308.4	309.2	308.2	309.2	310.6	312.0	312.8	311.9
Kentucky .....	402.1	399.8	401.5	405.2	404.5	405.2	408.5	410.8	413.3	412.9	409.7	411.3	411.8
Louisiana .....	423.5	426.1	427.4	428.7	427.4	427.5	432.4	432.6	431.4	431.4	432.0	431.1	431.1
Maine .....	136.9	135.8	135.5	134.1	137.1	137.3	137.7	137.6	138.2	138.1	139.2	139.3	140.3
Maryland .....	530.4	531.5	532.4	533.7	531.6	534.9	535.5	533.9	536.4	537.1	537.6	537.1	537.7
Massachusetts .....	702.2	703.7	706.0	706.3	705.0	702.5	702.6	700.9	703.6	707.3	708.6	711.5	710.4
Michigan .....	1,028.8	1,034.7	1,033.5	1,037.1	1,033.4	1,040.2	1,042.4	1,038.9	1,043.1	1,043.3	1,045.9	1,044.6	1,049.2
Minnesota .....	592.7	596.2	597.5	600.0	600.4	602.1	604.2	599.1	601.3	601.9	601.3	602.5	602.3
Mississippi .....	232.9	233.4	233.8	233.0	233.5	232.8	233.7	233.1	233.1	230.4	231.3	232.5	232.0
Missouri .....	612.6	616.2	617.4	618.9	616.1	614.0	615.5	615.5	615.7	615.7	613.8	613.1	614.9
Montana .....	96.8	97.3	97.5	97.3	97.2	97.5	97.5	98.1	98.4	98.6	98.6	98.9	99.0
Nebraska .....	207.6	208.6	209.3	209.6	210.2	210.5	210.1	208.1	207.7	208.3	208.7	209.2	210.6
Nevada .....	172.8	174.1	175.1	176.4	176.6	178.2	178.3	179.6	180.4	181.1	182.2	181.9	183.4
New Hampshire .....	144.9	146.5	146.9	147.9	147.2	147.8	147.8	147.5	149.0	149.3	151.9	150.4	149.7
New Jersey .....	858.9	859.7	861.1	860.9	860.9	867.1	868.0	869.9	869.1	872.7	873.2	873.7	873.7
New Mexico .....	164.2	165.0	166.1	166.6	165.8	165.7	166.0	166.6	167.1	168.2	168.2	168.1	168.5
New York .....	1,627.4	1,630.6	1,637.5	1,635.4	1,627.9	1,628.2	1,631.3	1,632.0	1,632.7	1,635.7	1,639.2	1,642.2	1,643.2
North Carolina .....	810.2	817.0	817.8	820.3	822.2	821.1	823.0	823.0	824.1	818.9	817.0	813.8	814.6
North Dakota .....	80.3	80.0	80.8	80.8	80.9	80.9	80.8	80.4	80.7	81.4	80.9	81.1	81.3
Ohio .....	1,302.5	1,306.9	1,313.2	1,315.7	1,315.9	1,317.5	1,317.8	1,316.5	1,317.7	1,320.6	1,318.4	1,319.2	1,322.1
Oklahoma .....	318.9	321.4	323.4	323.9	324.6	324.9	326.7	325.1	325.8	324.8	324.6	326.6	326.7
Oregon .....	367.2	368.1	368.9	371.7	372.2	372.0	373.5	374.3	375.0	376.0	377.5	377.3	377.9
Pennsylvania .....	1,216.1	1,217.7	1,217.8	1,221.4	1,220.0	1,222.5	1,227.0	1,230.0	1,235.8	1,232.2	1,233.2	1,234.5	1,241.7
Rhode Island .....	99.6	99.3	99.7	99.8	98.7	99.2	99.6	99.4	99.7	99.3	100.2	100.2	99.6
South Carolina .....	400.1	398.9	400.8	402.1	400.3	401.4	403.6	405.6	407.5	407.3	407.9	409.5	409.8
South Dakota .....	87.7	87.8	87.8	87.9	86.9	87.4	87.6	87.1	88.5	88.2	87.6	88.5	87.9
Tennessee .....	600.1	598.8	602.8	605.9	604.0	604.7	606.8	605.2	604.5	603.7	602.9	604.9	606.9
Texas .....	1,997.3	2,005.7	2,009.5	2,014.7	2,014.2	2,019.1	2,023.8	2,030.8	2,032.7	2,034.6	2,040.5	2,042.1	2,046.7
Utah .....	232.3	232.4	233.5	234.6	235.0	235.7	237.0	237.7	239.5	240.2	241.1	240.7	240.3
Vermont .....	64.1	65.0	64.6	64.3	65.0	65.3	65.6	66.3	66.2	66.9	66.6	66.1	66.2
Virginia .....	717.6	723.7	724.4	726.1	724.2	725.5	726.5	725.1	726.0	729.5	733.8	736.7	737.8
Washington .....	593.8	595.7	596.4	596.6	596.3	596.7	598.9	600.0	602.9	605.1	607.2	609.4	608.6
West Virginia .....	160.9	161.9	162.1	161.3	160.6	160.7	162.5	163.0	163.6	163.9	164.0	163.3	164.5
Wisconsin .....	596.3	597.6	599.4	600.7	600.5	601.6	602.9	601.5	602.2	603.6	603.0	604.3	606.9
Wyoming .....	52.0	52.3	51.8	52.3	51.7	52.1	52.1	52.2	51.7	51.5	52.5	52.7	52.7

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
	Finance, insurance, and real estate												
Alabama .....	81.9	82.3	82.6	82.7	82.9	83.1	83.5	83.3	83.5	83.9	84.0	84.3	84.3
Alaska .....	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.7	11.8	11.9	11.9	11.9
Arizona .....	116.8	116.8	117.1	117.6	119.0	120.2	121.3	121.6	122.1	123.0	123.8	124.2	124.4
Arkansas .....	43.4	43.5	43.6	43.6	43.6	43.6	43.8	43.7	44.0	44.1	43.9	43.9	44.1
California .....	733.1	734.0	734.0	733.8	732.3	732.6	732.2	732.3	732.8	734.3	735.8	735.6	736.2
Colorado .....	118.8	118.1	118.5	118.8	119.9	120.3	120.7	121.0	120.3	120.7	121.2	121.9	121.5
Connecticut .....	130.5	130.5	130.6	130.4	129.7	129.3	129.0	129.4	129.7	129.9	130.1	130.3	130.4
Delaware .....	44.3	44.3	44.2	44.6	44.3	44.9	45.2	46.2	46.6	46.9	47.0	47.4	47.6
District of Columbia .....	28.0	27.7	28.0	28.0	28.0	28.1	28.2	27.7	27.6	27.7	27.7	27.8	27.6
Florida .....	397.4	398.1	399.4	401.0	401.7	401.8	402.5	405.1	406.0	407.2	408.5	410.1	411.3
Georgia .....	181.1	182.1	182.4	182.6	183.5	183.3	184.1	185.4	186.5	187.6	188.4	189.5	189.5
Hawaii .....	36.6	36.8	36.6	36.6	36.4	36.3	35.9	35.9	35.7	35.8	35.7	35.8	35.7
Idaho .....	25.3	25.4	25.4	25.4	25.5	25.5	25.4	25.5	25.5	25.5	25.7	25.6	25.6
Illinois .....	386.2	387.5	387.9	387.9	387.0	387.9	389.2	390.0	390.1	390.7	390.8	391.4	391.9
Indiana .....	135.8	136.3	136.4	136.4	137.1	137.7	138.0	138.5	138.2	138.1	138.6	138.6	137.8
Iowa .....	77.3	77.6	77.6	77.8	77.5	77.9	78.2	78.5	78.8	78.6	78.7	79.0	79.2
Kansas .....	58.4	58.9	58.8	59.0	59.5	59.5	59.8	59.9	60.0	60.2	60.3	60.5	60.8
Kentucky .....	67.7	68.3	68.3	68.6	68.4	68.6	68.7	68.8	69.0	69.2	69.4	69.5	69.4
Louisiana .....	83.4	83.4	83.5	83.4	83.5	83.6	83.5	83.5	83.5	83.7	83.8	84.1	84.3
Maine .....	26.7	26.8	26.9	27.1	27.4	27.2	27.2	27.1	27.1	26.9	27.4	27.5	27.5
Maryland .....	128.6	128.6	128.7	128.6	127.7	127.3	127.7	127.3	127.7	127.9	127.2	128.0	128.7
Massachusetts .....	210.8	211.7	212.5	213.1	211.9	213.0	213.9	214.0	215.1	216.5	217.4	218.2	218.6
Michigan .....	201.5	202.2	202.4	203.2	201.9	202.7	202.5	203.8	203.5	202.8	202.7	202.1	202.9
Minnesota .....	142.8	142.7	143.1	143.5	143.2	143.9	144.7	145.0	145.0	145.1	145.4	145.8	146.2
Mississippi .....	40.9	41.0	41.1	41.2	41.1	41.0	41.3	41.4	41.4	41.6	41.4	40.5	40.8
Missouri .....	150.6	151.0	151.3	151.9	153.6	154.6	155.2	155.0	155.7	156.5	157.8	157.0	157.2
Montana .....	15.9	16.1	16.1	16.2	16.1	16.4	16.5	16.6	16.6	16.7	16.6	16.8	16.8
Nebraska .....	52.9	53.2	53.3	53.6	54.2	54.0	54.2	54.6	55.0	55.0	55.2	55.2	55.6
Nevada .....	37.9	38.1	38.2	38.4	38.3	38.6	38.9	39.0	39.2	39.2	39.5	39.7	39.8
New Hampshire .....	28.2	28.1	28.1	28.3	28.5	28.3	28.5	28.4	28.3	28.4	28.6	28.4	28.0
New Jersey .....	232.8	233.5	234.1	234.5	235.0	234.1	234.4	234.3	234.7	235.5	236.0	236.0	236.6
New Mexico .....	31.7	31.8	31.8	31.9	32.2	32.2	32.1	32.1	32.1	32.0	32.0	31.9	31.8
New York .....	722.1	723.0	723.0	723.5	725.4	725.8	728.1	725.3	725.0	725.0	724.7	724.9	725.7
North Carolina .....	154.8	156.9	157.7	158.4	159.2	159.5	159.9	159.5	160.0	160.2	161.1	161.5	162.5
North Dakota .....	14.6	14.8	14.8	14.8	14.7	14.7	14.6	14.9	15.0	15.1	15.2	15.3	15.4
Ohio .....	278.3	279.0	279.5	279.8	279.5	280.7	280.0	280.1	280.8	281.4	281.2	281.9	281.9
Oklahoma .....	87.5	87.9	88.2	88.4	88.3	88.6	88.7	88.8	89.1	89.2	89.2	89.3	89.5
Oregon .....	91.1	91.8	92.4	92.8	93.3	93.8	93.8	94.0	94.2	94.6	94.8	94.8	94.3
Pennsylvania .....	310.9	310.9	311.6	312.4	311.5	311.8	311.5	312.3	312.5	312.5	312.5	312.1	313.0
Rhode Island .....	25.5	25.3	25.4	25.6	25.5	25.5	25.5	25.8	25.8	25.9	26.0	26.0	26.0
South Carolina .....	73.0	72.9	73.0	73.1	73.2	73.2	73.5	73.6	74.2	74.2	74.0	74.3	74.8
South Dakota .....	20.0	20.0	20.1	20.2	20.3	20.2	20.6	20.7	20.8	20.9	21.0	21.1	21.4
Tennessee .....	118.1	118.2	118.6	118.9	119.3	119.1	119.8	119.6	119.7	119.5	119.7	119.9	120.0
Texas .....	446.0	447.5	447.5	448.3	448.7	448.4	448.7	449.8	451.2	453.4	454.1	455.5	456.3
Utah .....	50.5	50.8	51.3	51.4	51.1	51.4	51.5	51.6	51.8	52.0	52.3	52.2	52.0
Vermont .....	12.2	12.2	12.2	12.2	12.4	12.4	12.4	12.4	12.5	12.6	12.6	12.7	12.5
Virginia .....	162.3	163.1	163.5	163.8	164.1	164.1	164.8	164.6	165.4	166.7	166.5	167.0	166.7
Washington .....	124.4	124.1	124.4	124.6	125.4	125.7	126.0	126.0	126.3	126.2	126.2	126.6	126.7
West Virginia .....	27.1	27.4	27.4	27.5	27.3	27.4	27.5	27.6	27.7	27.4	27.4	27.6	27.8
Wisconsin .....	138.4	138.9	139.3	139.6	139.8	140.4	140.5	140.9	141.2	142.1	142.2	142.5	142.5
Wyoming .....	7.9	8.0	8.0	8.0	7.9	7.8	7.9	7.9	7.9	7.9	8.0	8.0	8.0

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	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.P
	Services												
Alabama .....	409.5	410.2	410.9	411.8	409.7	411.1	413.0	414.2	415.5	415.3	418.6	419.1	419.1
Alaska .....	62.8	62.3	62.5	62.8	62.6	63.0	63.8	63.8	64.5	64.5	64.8	64.8	64.9
Arizona .....	574.6	575.5	577.9	580.2	579.3	583.1	584.3	586.1	590.4	594.4	598.8	597.2	602.1
Arkansas .....	247.7	248.5	249.7	250.7	250.4	250.8	250.9	250.6	251.6	250.9	250.0	250.9	252.5
California .....	3,946.9	3,973.8	3,991.2	4,004.2	4,015.6	4,025.9	4,048.9	4,052.9	4,068.0	4,082.1	4,097.9	4,114.5	4,117.3
Colorado .....	571.3	573.8	576.2	579.1	581.5	587.4	592.5	565.8	589.1	588.0	587.5	587.1	589.8
Connecticut .....	486.9	486.1	487.7	488.5	489.0	490.8	493.1	493.2	496.0	497.7	499.8	501.0	502.2
Delaware .....	103.5	103.5	104.0	104.4	104.3	104.6	104.9	104.2	105.1	105.0	105.3	105.7	106.0
District of Columbia .....	263.9	262.6	262.3	263.7	263.9	267.0	267.8	266.5	264.8	266.8	268.3	266.8	267.1
Florida .....	2,145.4	2,147.7	2,153.7	2,164.0	2,166.8	2,181.5	2,191.3	2,206.9	2,223.0	2,228.2	2,237.7	2,247.5	2,280.5
Georgia .....	904.2	911.7	915.5	918.5	918.2	920.9	924.6	927.3	931.3	931.4	940.0	949.9	958.4
Hawaii .....	166.5	166.8	167.0	167.0	168.1	168.6	168.6	168.8	168.6	167.9	168.5	168.6	169.4
Idaho .....	115.7	116.3	116.2	116.0	115.9	116.9	117.4	116.9	118.1	117.4	118.8	118.4	118.3
Illinois .....	1,653.0	1,653.0	1,655.3	1,659.8	1,662.1	1,664.5	1,669.3	1,676.0	1,685.8	1,686.5	1,691.7	1,700.2	1,700.8
Indiana .....	662.6	662.4	661.5	661.4	665.3	664.1	671.4	669.5	675.0	673.8	675.6	676.9	674.3
Iowa .....	358.2	363.3	365.4	367.6	367.5	369.6	371.7	371.9	372.8	375.2	374.0	374.4	373.2
Kansas .....	302.3	304.4	305.0	305.7	307.1	308.4	308.8	310.8	311.7	311.8	312.6	312.0	312.3
Kentucky .....	411.5	413.8	413.7	416.8	413.7	415.8	419.6	419.9	422.1	422.5	424.8	427.8	428.6
Louisiana .....	490.3	493.8	494.6	495.4	496.8	495.2	494.5	493.3	493.1	492.5	495.2	493.8	498.2
Maine .....	150.8	151.2	151.7	152.4	152.9	154.0	153.9	154.7	154.5	155.3	156.2	156.6	156.5
Maryland .....	720.6	722.3	725.3	727.9	723.7	730.4	733.5	734.3	738.7	741.4	742.2	743.0	742.1
Massachusetts .....	1,072.5	1,075.3	1,078.6	1,079.9	1,078.6	1,083.1	1,088.4	1,098.8	1,102.7	1,102.0	1,106.2	1,108.8	1,111.6
Michigan .....	1,174.3	1,174.4	1,177.5	1,180.9	1,182.8	1,189.6	1,194.3	1,196.8	1,198.1	1,200.2	1,201.7	1,205.4	1,206.1
Minnesota .....	677.4	676.5	678.5	679.4	677.9	683.7	687.2	687.5	689.9	694.9	694.4	696.6	697.9
Mississippi .....	251.2	252.0	252.8	253.0	250.4	251.5	252.9	254.2	253.8	251.1	250.0	256.0	255.3
Missouri .....	708.7	711.0	713.6	719.0	714.1	722.2	723.2	725.9	729.7	729.3	725.9	727.7	730.7
Montana .....	101.6	102.2	102.6	102.9	101.7	102.5	103.3	103.7	103.9	105.0	104.6	104.5	103.9
Nebraska .....	220.8	222.3	223.5	224.2	224.9	226.3	228.5	227.4	227.1	227.3	228.4	228.8	230.7
Nevada .....	368.1	368.0	371.4	373.5	376.5	378.6	380.8	381.0	382.8	385.1	385.5	386.2	388.6
New Hampshire .....	164.7	165.5	164.2	164.1	163.6	163.3	164.0	163.1	165.0	166.5	166.6	166.0	165.9
New Jersey .....	1,130.4	1,134.1	1,137.5	1,140.8	1,143.9	1,147.8	1,151.8	1,150.7	1,155.2	1,158.1	1,164.5	1,166.7	1,170.6
New Mexico .....	193.2	193.8	194.2	195.2	194.9	195.3	196.7	195.9	196.2	196.4	196.7	197.8	198.3
New York .....	2,626.7	2,632.8	2,639.0	2,645.8	2,639.3	2,652.5	2,661.2	2,667.6	2,674.6	2,675.2	2,680.9	2,690.5	2,698.4
North Carolina .....	832.6	846.0	850.1	852.0	845.4	842.0	848.3	849.2	854.1	858.4	861.3	865.8	874.2
North Dakota .....	85.1	85.8	86.1	86.1	86.0	86.9	86.8	87.1	87.5	87.7	88.3	88.2	88.1
Ohio .....	1,425.7	1,425.6	1,426.3	1,429.5	1,429.4	1,431.8	1,431.0	1,434.1	1,441.4	1,443.9	1,446.7	1,447.8	1,448.5
Oklahoma .....	368.1	370.0	372.5	374.1	376.3	377.8	379.4	379.1	381.9	381.0	381.7	386.3	387.3
Oregon .....	391.2	391.8	393.7	395.0	392.0	397.9	397.0	400.5	401.1	400.6	404.5	405.2	404.7
Pennsylvania .....	1,663.5	1,668.2	1,672.8	1,677.4	1,679.3	1,689.1	1,693.9	1,700.5	1,705.8	1,711.1	1,708.9	1,715.9	1,717.9
Rhode Island .....	147.6	147.2	148.1	148.0	146.1	145.8	146.4	146.4	145.7	147.1	147.3	148.5	148.5
South Carolina .....	376.4	375.5	376.6	378.1	375.0	377.2	378.5	382.3	384.6	386.4	387.4	389.0	389.8
South Dakota .....	90.5	91.0	91.1	91.0	90.1	90.9	89.8	90.1	91.2	90.9	91.5	91.8	92.4
Tennessee .....	660.1	659.3	662.8	664.8	664.8	666.6	665.8	665.0	664.0	663.4	665.9	669.5	670.4
Texas .....	2,243.9	2,255.3	2,261.5	2,266.8	2,255.9	2,275.2	2,280.7	2,286.1	2,296.6	2,298.6	2,308.3	2,326.0	2,332.6
Utah .....	259.9	260.9	261.5	263.1	264.3	266.8	267.7	268.5	269.4	271.7	273.0	274.6	275.9
Vermont .....	81.1	81.8	82.1	82.0	83.0	82.5	82.6	82.5	83.1	82.6	82.8	82.9	82.8
Virginia .....	919.6	924.3	926.1	932.6	936.1	943.4	947.2	947.2	951.3	947.1	953.8	957.4	962.2
Washington .....	652.3	656.2	657.6	659.1	659.4	664.2	666.6	670.0	674.7	677.3	680.2	684.7	687.2
West Virginia .....	191.7	192.5	193.8	193.9	194.9	195.4	195.7	195.7	195.5	196.5	198.2	198.7	198.8
Wisconsin .....	661.9	666.7	669.2	672.0	668.6	670.2	674.1	673.7	675.7	677.0	680.5	682.7	685.8
Wyoming .....	46.3	48.6	48.1	48.0	47.9	48.1	48.4	48.0	48.2	48.0	48.7	48.7	48.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
<b>Government</b>													
Alabama .....	340.9	341.6	341.9	342.1	342.6	343.3	343.4	343.7	343.7	342.8	341.3	343.4	343.7
Alaska .....	73.4	73.3	73.3	73.0	73.2	73.5	73.2	73.3	71.8	72.5	73.4	73.1	72.8
Arizona .....	325.0	325.7	329.6	326.5	322.7	326.5	326.9	327.9	328.5	325.2	319.9	325.0	324.4
Arkansas .....	179.8	179.9	179.7	180.1	180.2	180.3	180.4	180.7	180.2	181.9	181.6	182.6	181.9
California .....	2,126.2	2,132.4	2,133.7	2,133.1	2,139.0	2,139.9	2,147.5	2,147.9	2,151.2	2,148.2	2,136.0	2,146.8	2,157.4
Colorado .....	310.2	310.4	310.6	310.5	313.3	310.5	309.9	309.7	312.0	312.7	313.5	311.1	313.2
Connecticut .....	225.4	227.3	226.7	227.0	224.7	226.8	225.3	228.5	227.1	226.3	229.1	227.4	228.1
Delaware .....	53.1	53.0	53.0	53.1	53.1	53.0	52.9	53.4	53.3	53.1	53.1	53.3	53.5
District of Columbia .....	238.6	238.7	237.9	237.5	235.2	234.3	232.1	231.4	231.3	230.6	232.2	230.2	228.2
Florida .....	928.3	928.4	942.5	936.2	947.8	942.1	940.4	942.6	943.8	943.4	937.6	937.3	947.3
Georgia .....	567.4	567.9	569.7	570.0	566.3	566.2	567.4	566.9	568.5	569.5	573.6	572.5	574.3
Hawaii .....	109.8	109.6	109.6	109.3	112.4	110.2	109.3	110.0	110.1	111.3	110.5	112.9	113.7
Idaho .....	98.1	99.3	99.6	99.6	98.3	98.4	98.0	97.9	98.1	98.1	99.1	99.0	96.7
Illinois .....	815.8	806.2	808.9	808.0	805.3	805.2	808.6	807.8	809.1	813.9	812.4	818.0	811.8
Indiana .....	396.1	395.7	397.3	393.7	386.5	390.1	389.3	389.2	393.0	399.2	388.9	395.4	390.8
Iowa .....	230.6	230.9	230.2	230.2	231.1	231.6	230.6	230.6	231.4	233.3	231.0	230.5	229.7
Kansas .....	233.6	239.6	248.5	240.2	237.3	237.2	240.1	236.8	239.4	236.2	237.1	234.3	234.2
Kentucky .....	287.5	290.1	290.4	290.9	290.8	292.4	291.7	292.8	294.7	293.5	294.7	294.3	293.5
Louisiana .....	362.1	380.7	360.9	361.3	360.8	363.1	364.0	364.6	365.1	365.9	360.8	361.4	363.1
Maine .....	94.1	93.5	93.3	93.6	93.3	93.2	93.4	93.1	92.2	93.4	93.1	93.1	93.8
Maryland .....	422.3	420.3	420.2	419.4	422.6	422.4	422.2	422.0	421.0	425.9	426.4	421.8	428.3
Massachusetts .....	404.8	402.2	403.0	403.1	401.1	400.6	401.2	402.4	402.1	402.5	402.3	402.7	406.9
Michigan .....	644.7	645.0	648.5	643.6	646.3	644.6	641.6	643.4	646.5	644.4	635.4	632.0	642.4
Minnesota .....	383.0	381.1	383.5	383.0	380.0	380.8	381.5	379.6	382.4	384.8	388.5	388.6	387.3
Mississippi .....	219.5	219.7	219.5	220.3	220.0	220.6	220.9	222.2	223.4	226.9	227.8	229.9	228.8
Missouri .....	398.6	404.8	404.9	405.0	405.0	407.4	408.4	409.6	412.1	416.2	416.6	417.4	419.7
Montana .....	76.4	77.6	78.7	77.2	78.0	77.9	77.6	78.0	77.6	76.3	76.3	75.6	75.4
Nebraska .....	152.0	152.2	153.3	152.5	152.9	152.2	152.6	152.5	150.6	151.3	152.5	150.2	152.9
Nevada .....	102.8	103.1	106.8	103.9	104.6	104.4	104.8	105.2	105.6	109.1	107.3	106.2	106.8
New Hampshire .....	79.1	79.1	79.8	79.4	80.3	79.8	79.9	81.6	81.6	81.3	82.8	82.6	80.3
New Jersey .....	569.2	568.6	567.9	566.9	568.7	567.5	568.5	566.4	566.5	566.1	565.1	563.1	568.6
New Mexico .....	171.8	172.3	173.1	173.6	172.9	172.8	172.2	173.4	173.1	176.2	175.8	174.7	174.2
New York .....	1,377.3	1,380.3	1,375.9	1,374.4	1,371.3	1,372.3	1,372.8	1,371.8	1,374.1	1,374.9	1,374.8	1,374.6	1,373.6
North Carolina .....	567.9	588.1	570.3	572.3	576.1	577.0	577.4	580.7	581.1	579.0	570.5	580.3	579.9
North Dakota .....	71.3	70.5	70.7	70.8	70.7	71.1	71.2	70.1	70.8	71.0	70.9	70.9	72.1
Ohio .....	749.8	750.3	752.1	753.2	751.7	753.8	753.0	750.8	754.5	758.9	765.3	768.3	757.8
Oklahoma .....	270.9	273.2	273.3	273.1	271.8	271.4	271.6	271.6	273.6	273.2	275.6	278.3	274.5
Oregon .....	246.5	246.2	251.2	247.8	248.9	249.9	249.3	249.5	248.6	249.2	247.1	248.2	247.3
Pennsylvania .....	723.2	722.5	722.2	723.1	723.2	726.5	723.2	724.3	726.8	720.8	726.9	722.2	733.2
Rhode Island .....	61.8	62.0	62.2	62.1	62.2	62.3	62.3	62.3	62.5	61.5	60.5	61.1	63.5
South Carolina .....	299.5	299.5	310.9	300.5	300.4	301.0	301.5	301.9	302.1	303.2	304.1	303.8	304.0
South Dakota .....	70.5	69.6	70.4	70.1	70.6	70.9	70.0	70.2	70.8	69.4	70.1	70.0	70.3
Tennessee .....	381.9	383.1	384.2	383.5	382.8	383.8	383.5	382.0	382.1	390.5	381.3	382.3	385.3
Texas .....	1,452.5	1,459.9	1,463.5	1,466.0	1,463.1	1,468.9	1,471.4	1,475.3	1,478.3	1,472.5	1,471.0	1,476.8	1,477.9
Utah .....	166.8	167.9	168.4	168.8	168.4	168.9	168.8	168.7	168.9	169.5	167.9	169.1	171.2
Vermont .....	45.5	45.3	45.5	45.7	45.0	45.6	45.1	45.5	44.8	45.5	45.1	45.3	45.4
Virginia .....	597.9	599.8	600.7	601.1	603.6	602.0	601.4	600.9	600.4	600.1	602.1	605.1	604.3
Washington .....	450.7	451.2	451.6	453.8	455.3	452.2	454.8	454.8	454.9	461.9	462.5	459.4	458.7
West Virginia .....	138.0	137.9	138.6	138.4	138.5	140.3	140.7	140.9	140.4	141.1	139.1	141.1	139.9
Wisconsin .....	384.2	383.2	388.9	384.3	384.6	385.2	384.9	384.7	386.1	387.1	382.1	383.4	383.4
Wyoming .....	59.0	58.9	59.0	58.8	59.1	59.0	59.1	58.8	59.0	59.0	58.0	56.9	57.9

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

NOTE: All data have been adjusted to March 1996 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	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Total private</b> .....	34.4	34.5	34.7	34.4	34.8	34.8	34.5	34.5	34.6	34.4	34.6	34.5	34.5
<b>Goods-producing</b> .....	41.1	41.1	41.3	41.1	41.2	41.4	41.4	41.4	41.1	41.2	41.1	41.2	41.3
<b>Mining</b> .....	45.4	45.3	45.7	44.7	45.8	45.9	45.3	46.0	45.4	45.4	45.5	44.9	44.9
<b>Construction</b> .....	38.9	38.8	38.9	38.6	38.8	38.9	38.9	39.4	38.7	39.0	38.6	39.0	38.7
<b>Manufacturing</b> .....	41.7	41.7	42.0	41.8	41.9	42.1	42.1	42.0	41.8	41.8	41.8	41.8	42.0
<i>Overtime hours</i> .....	4.5	4.6	4.7	4.7	4.7	4.9	4.9	4.8	4.6	4.7	4.7	4.7	4.8
<b>Durable goods</b> .....	42.4	42.5	42.7	42.5	42.7	42.9	43.0	42.8	42.6	42.6	42.7	42.6	42.8
<i>Overtime hours</i> .....	4.7	4.8	4.9	5.0	5.0	5.2	5.3	5.2	5.0	5.0	5.0	5.0	5.1
Lumber and wood products .....	40.8	40.9	41.0	40.7	40.8	41.0	41.2	41.0	41.0	41.1	40.8	40.9	41.0
Furniture and fixtures .....	39.6	39.8	40.1	39.8	39.9	40.3	40.1	40.4	39.9	40.0	40.0	40.3	39.8
Stone, clay, and glass products .....	43.3	43.2	43.4	42.6	43.3	43.1	43.0	43.4	42.9	43.1	43.0	43.2	43.1
Primary metal industries .....	44.4	44.3	44.6	44.4	44.6	44.8	45.1	44.8	44.7	44.4	45.0	44.9	45.1
Blast furnaces and basic steel products .....	44.6	44.6	44.6	44.7	44.6	44.8	45.2	44.7	44.5	44.3	45.2	44.9	45.5
Fabricated metal products .....	42.3	42.3	42.4	42.4	42.5	42.6	42.9	42.6	42.4	42.4	42.3	42.3	42.4
Industrial machinery and equipment .....	43.0	43.1	43.3	43.2	43.4	43.5	43.9	43.6	43.3	43.4	43.4	43.6	43.5
Electronic and other electrical equipment .....	41.5	41.5	41.8	41.3	41.9	42.1	42.3	42.0	42.0	42.0	41.7	41.7	42.2
Transportation equipment .....	44.0	44.3	44.6	44.7	44.6	45.0	44.8	44.5	44.2	43.7	44.3	43.7	44.4
Motor vehicles and equipment .....	44.8	44.9	45.2	45.6	45.3	45.7	45.3	45.2	44.8	44.0	44.7	43.9	45.1
Instruments and related products .....	41.8	41.9	42.0	41.6	42.1	42.0	41.9	41.9	41.8	41.7	42.3	42.0	42.1
Miscellaneous manufacturing .....	39.8	39.9	40.4	39.9	40.5	40.2	40.5	40.3	40.1	40.4	40.2	40.3	40.3
<b>Nondurable goods</b> .....	40.6	40.7	40.9	40.7	40.8	40.9	40.9	40.8	40.6	40.6	40.7	40.8	40.9
<i>Overtime hours</i> .....	4.1	4.2	4.3	4.2	4.3	4.4	4.4	4.3	4.1	4.3	4.2	4.3	4.4
Food and kindred products .....	41.1	41.1	41.3	41.2	41.3	41.3	41.1	41.4	40.9	41.1	41.0	41.0	41.3
Tobacco products .....	39.8	40.6	41.1	39.9	40.8	40.2	39.0	38.4	37.6	36.1	37.5	37.7	38.0
Textile mill products .....	40.9	41.2	41.5	41.2	40.9	41.2	41.7	41.4	41.2	41.3	41.2	41.5	41.4
Apparel and other textile products .....	37.3	37.3	37.4	37.2	37.2	37.5	37.5	37.1	37.4	36.9	37.1	37.3	37.2
Paper and allied products .....	43.4	43.6	43.7	43.7	43.7	43.8	43.9	43.8	43.4	43.5	43.4	43.5	43.8
Printing and publishing .....	38.2	38.2	38.4	38.3	38.5	38.6	38.5	38.3	38.3	38.4	38.3	38.7	38.6
Chemicals and allied products .....	43.1	43.3	43.5	43.2	43.3	43.3	43.1	43.3	43.1	43.0	43.3	43.3	43.8
Petroleum and coal products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products .....	41.5	41.3	41.8	41.4	41.7	41.8	42.0	41.6	41.5	41.7	41.7	41.4	41.8
Leather and leather products .....	38.6	38.9	38.8	38.4	38.9	38.7	38.5	38.2	38.1	38.4	38.0	38.5	37.6
<b>Service-producing</b> .....	32.6	32.7	33.0	32.7	33.0	33.0	32.7	32.7	32.9	32.7	32.9	32.7	32.7
<b>Transportation and public utilities</b> .....	39.6	39.8	39.9	39.5	39.7	39.8	39.3	39.5	39.6	39.0	40.1	39.1	39.3
<b>Wholesale trade</b> .....	38.2	38.3	38.5	38.2	38.6	38.6	38.4	38.4	38.5	38.3	38.4	38.3	38.4
<b>Retail trade</b> .....	28.8	28.9	29.0	28.8	29.1	29.1	28.9	28.9	28.9	28.8	29.1	28.8	28.9
<b>Finance, insurance, and real estate</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>Services</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(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> These series are not published seasonally adjusted because the seasonal components, which are small relative to the trend-cycle and irregular

components, cannot be separated with sufficient precision.

<sup>P</sup> = preliminary.

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



**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

(1982=100)

Industry	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Total private</b> .....	137.2	137.9	139.1	138.2	140.0	140.2	139.6	140.0	140.6	140.2	140.8	140.6	140.9
<b>Goods-producing</b> .....	111.4	111.7	112.4	112.0	113.1	113.3	113.3	113.7	112.7	112.9	113.0	113.2	113.8
<b>Mining</b> .....	55.0	55.2	55.7	54.8	56.4	56.6	55.8	57.3	56.3	56.3	56.3	55.7	55.7
<b>Construction</b> .....	149.4	150.0	151.2	151.0	154.5	154.0	153.2	156.2	152.8	154.1	152.9	154.4	153.7
<b>Manufacturing</b> .....	106.9	107.2	107.8	107.4	107.9	108.3	108.5	108.3	107.8	107.8	108.1	108.1	109.0
<b>Durable goods</b> .....	109.2	109.6	110.3	110.0	110.7	111.3	111.7	111.4	111.0	111.1	112.0	111.7	112.8
Lumber and wood products .....	139.4	140.1	140.9	140.3	140.7	142.2	143.3	142.9	142.2	142.3	141.5	141.9	142.4
Furniture and fixtures .....	123.6	124.5	125.7	125.1	125.7	127.3	126.7	128.0	126.7	127.3	126.7	128.0	127.3
Stone, clay, and glass products .....	110.7	110.2	111.0	108.9	111.0	110.0	109.2	110.2	108.7	110.0	109.7	109.9	110.2
Primary metal industries .....	92.9	92.7	93.3	93.1	93.5	93.9	94.5	93.9	94.0	93.2	95.2	94.8	95.7
Blast furnaces and basic steel products .....	72.9	72.9	72.9	73.4	72.9	73.2	73.8	72.6	72.3	72.0	73.4	73.4	73.9
Fabricated metal products .....	114.9	115.1	115.5	115.7	116.2	116.7	118.0	117.1	116.8	116.5	117.2	117.1	117.8
Industrial machinery and equipment .....	104.6	104.9	105.7	106.0	106.9	107.7	109.2	108.5	108.1	108.5	108.9	109.3	110.0
Electronic and other electrical equipment .....	107.5	107.4	108.0	106.6	108.3	108.8	109.1	108.2	108.5	109.1	108.9	108.8	110.7
Transportation equipment .....	123.1	124.7	125.5	126.4	126.1	127.6	126.5	126.8	126.2	125.7	129.7	127.1	130.7
Motor vehicles and equipment .....	163.7	164.3	165.6	167.7	165.9	167.9	164.4	165.4	165.6	163.1	169.1	164.0	169.6
Instruments and related products .....	75.4	75.6	75.8	75.1	76.0	75.4	75.1	75.1	75.2	75.1	75.8	75.4	75.6
Miscellaneous manufacturing .....	101.5	101.8	103.4	102.5	104.1	102.5	103.3	103.2	102.3	103.4	102.5	102.0	101.6
<b>Nondurable goods</b> .....	103.9	103.9	104.5	104.0	104.0	104.3	104.2	104.0	103.4	103.1	102.8	103.2	103.8
Food and kindred products .....	115.7	116.0	116.9	117.0	117.0	117.4	117.0	117.3	115.8	115.6	114.8	115.4	116.7
Tobacco products .....	63.1	66.4	65.1	63.2	64.7	63.7	59.9	58.9	57.8	57.2	57.6	57.9	60.2
Textile mill products .....	89.2	89.4	90.0	89.4	88.2	88.8	89.6	88.8	88.2	88.5	87.6	88.6	88.4
Apparel and other textile products .....	76.0	75.5	75.3	74.6	74.2	74.3	73.9	73.0	73.2	72.0	71.7	71.6	71.3
Paper and allied products .....	109.4	109.9	110.2	110.2	110.2	110.2	110.4	110.4	109.0	109.0	108.5	109.0	110.0
Printing and publishing .....	123.6	123.4	123.9	123.3	123.9	124.3	124.7	125.1	125.2	125.4	124.5	125.3	125.8
Chemicals and allied products .....	100.4	100.7	101.0	100.1	100.3	100.3	99.9	100.5	99.7	99.3	100.1	100.8	102.4
Petroleum and coal products .....	75.0	76.6	77.0	78.0	76.3	76.1	73.6	75.0	74.2	73.5	74.9	74.2	73.2
Rubber and misc. plastics products .....	143.4	142.9	144.5	143.1	144.5	145.0	145.9	144.7	144.2	144.3	144.9	144.4	145.6
Leather and leather products .....	42.7	42.4	43.5	42.5	43.0	42.8	42.0	41.7	41.0	40.7	39.7	39.6	39.3
<b>Service-producing</b> .....	148.7	149.7	151.0	150.0	152.1	152.3	151.3	151.8	153.1	152.5	153.2	152.9	153.1
<b>Transportation and public utilities</b> .....	128.5	129.2	129.3	129.3	130.5	131.4	130.1	131.0	131.3	129.3	128.2	129.8	130.9
<b>Wholesale trade</b> .....	123.7	124.2	125.0	124.3	125.9	126.3	125.7	125.9	126.2	126.0	126.5	126.3	126.8
<b>Retail trade</b> .....	135.9	136.7	137.6	136.7	138.2	138.5	137.9	138.0	138.2	138.2	139.7	138.4	139.2
<b>Finance, insurance, and real estate</b> .....	123.8	126.0	128.3	124.7	128.9	129.0	126.7	127.3	130.5	127.4	129.4	128.5	127.1
<b>Services</b> .....	178.2	179.1	181.1	180.2	182.6	182.6	181.7	182.3	184.5	184.4	184.9	184.8	184.6

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

P = preliminary.

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

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

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Aug. 1997 <sup>r</sup>	Sept. 1997 <sup>r</sup>	Oct. 1997 <sup>P</sup>	Oct. 1996 to Oct. 1997 <sup>P</sup>	Aug. 1997 to Sept. 1997 <sup>r</sup>	Sept. 1997 to Oct. 1997 <sup>P</sup>
Total .....	226,003	224,587	224,492	2.0	-0.6	0.0
Private sector .....	187,824	187,451	187,829	2.8	-.2	.2
Mining .....	1,355	1,347	1,335	-.8	-.6	-.9
Construction .....	11,315	11,432	11,384	2.9	1.0	-.4
Manufacturing .....	40,243	40,222	40,455	1.5	-.1	.6
Durable goods .....	24,141	24,093	24,267	2.6	-.2	.7
Nondurable goods .....	16,102	16,129	16,188	-.2	.2	.4
Transportation and public utilities .....	13,242	13,237	13,260	2.2	.0	.2
Wholesale trade .....	13,329	13,320	13,399	3.2	-.1	.6
Retail trade .....	33,576	33,259	33,430	2.4	-.9	.5
Finance, insurance, and real estate .....	13,314	13,248	13,156	2.7	-.5	-.7
Services .....	61,450	61,387	61,410	4.0	-.1	.0
Government .....	38,180	37,135	36,663	-1.8	-2.7	-1.3

<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: <http://stats.bls.gov/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	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Average hourly earnings</b>													
<b>Total private</b> (in current dollars) .....	\$11.91	\$11.98	\$12.03	\$12.05	\$12.10	\$12.14	\$12.14	\$12.19	\$12.23	\$12.24	\$12.31	\$12.35	\$12.41
<b>Goods-producing</b> .....	13.57	13.62	13.69	13.73	13.76	13.79	13.80	13.85	13.86	13.86	13.94	13.98	14.07
<b>Mining</b> .....	15.67	15.77	15.88	15.98	15.96	15.94	15.96	16.05	16.12	16.10	16.07	16.20	16.30
<b>Construction</b> .....	15.58	15.58	15.69	15.73	15.79	15.80	15.86	15.91	15.95	15.96	16.03	16.10	16.13
<b>Manufacturing</b> .....	12.87	12.93	12.99	13.02	13.03	13.07	13.07	13.11	13.12	13.11	13.20	13.22	13.35
<b>Excluding overtime<sup>2</sup></b> .....	12.21	12.26	12.29	12.34	12.35	12.37	12.38	12.38	12.42	12.41	12.50	12.50	12.61
<b>Service-producing</b> .....	11.35	11.43	11.47	11.49	11.54	11.59	11.58	11.63	11.69	11.70	11.77	11.81	11.85
<b>Transportation and public utilities</b> .....	14.43	14.53	14.56	14.74	14.64	14.73	14.76	14.80	14.85	14.95	15.01	14.99	14.99
<b>Wholesale trade</b> .....	12.93	13.08	13.17	13.12	13.23	13.30	13.27	13.33	13.42	13.38	13.54	13.52	13.53
<b>Retail trade</b> .....	8.10	8.13	8.16	8.19	8.21	8.25	8.26	8.28	8.30	8.32	8.36	8.42	8.44
<b>Finance, insurance, and real estate</b> .....	12.86	12.98	13.00	12.95	13.08	13.12	13.00	13.18	13.29	13.30	13.49	13.46	13.59
<b>Services</b> .....	11.91	11.99	12.04	12.05	12.12	12.16	12.16	12.20	12.26	12.26	12.33	12.36	12.42
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	7.42	7.44	7.45	7.46	7.47	7.49	7.49	7.52	7.54	7.53	7.56	7.56	(4)
<b>Goods-producing</b> .....	8.45	8.46	8.48	8.50	8.50	8.51	8.52	8.55	8.55	8.53	8.56	8.56	(4)
<b>Service-producing</b> .....	7.07	7.10	7.11	7.11	7.13	7.15	7.15	7.18	7.21	7.20	7.23	7.23	(4)
<b>Average weekly earnings</b>													
<b>Total private</b> (in current dollars) .....	409.70	413.31	417.44	414.52	421.08	422.47	418.83	420.56	423.16	421.06	425.93	426.08	428.15
<b>Goods-producing</b> .....	557.73	559.78	565.40	564.30	566.91	570.91	571.32	573.39	569.65	571.03	572.93	575.98	581.09
<b>Mining</b> .....	711.42	714.38	725.72	714.31	730.97	731.65	722.99	738.30	731.85	730.94	731.19	727.38	731.87
<b>Construction</b> .....	606.06	604.50	610.34	607.18	612.65	614.62	616.95	626.85	617.27	622.44	618.76	627.90	624.23
<b>Manufacturing</b> .....	536.68	539.18	545.58	544.24	545.96	550.25	550.25	550.62	548.42	548.00	551.76	552.60	560.70
<b>Service-producing</b> .....	370.01	373.76	378.51	375.72	380.82	382.47	378.67	380.30	384.60	382.59	387.23	386.19	387.50
<b>Transportation and public utilities</b> .....	571.43	578.29	580.94	582.23	581.21	586.25	580.07	584.60	588.06	583.05	601.90	586.11	589.11
<b>Wholesale trade</b> .....	493.93	500.96	507.05	501.18	510.68	513.38	509.57	511.87	516.67	512.45	519.94	517.82	519.55
<b>Retail trade</b> .....	233.28	234.96	236.64	235.87	238.91	240.08	238.71	239.29	239.87	239.62	243.28	242.50	243.92
<b>Finance, insurance, and real estate</b> .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>Services</b> .....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>Total private</b> (in constant (1982) dollars) <sup>3</sup> .....	255.26	256.71	258.64	256.51	260.09	260.78	258.54	259.60	260.89	259.11	261.63	260.92	(4)
<b>Goods-producing</b> .....	347.50	347.69	350.31	349.20	350.16	352.41	352.67	353.94	351.20	351.40	351.92	352.71	(4)
<b>Service-producing</b> .....	230.54	232.15	234.52	232.50	235.22	236.09	233.75	234.75	237.11	235.44	237.86	236.49	(4)

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

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

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

<sup>4</sup> Not available.

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

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Total</b> .....		120,454	121,157	122,248	123,204	124,074	-	-	-	-	-
<b>Total private</b> .....		101,187	101,384	103,747	103,709	104,043	82,999	83,200	85,081	85,050	85,328
<b>Mining</b> .....		577	576	584	581	580	432	431	443	442	441
Metal mining .....	10	54.6	54.1	55.0	54.1	53.4	42.6	42.1	42.1	41.7	-
Iron ores .....	101	8.5	8.5	8.5	8.3	-	6.9	7.0	7.1	6.9	-
Copper ores .....	102	16.3	16.2	16.6	16.3	-	12.7	12.6	12.4	12.4	-
Coal mining .....	12	95.3	94.7	91.6	91.0	90.5	77.8	77.3	74.7	74.4	-
Bituminous coal and lignite mining .....	122	88.6	88.1	85.8	85.2	-	72.3	71.8	69.8	69.5	-
Oil and gas extraction .....	13	317.2	317.7	325.0	324.3	326.1	226.8	228.2	240.8	240.7	-
Crude petroleum and natural gas .....	131	140.2	139.4	133.0	130.8	-	78.6	78.5	77.2	75.5	-
Oil and gas field services .....	138	172.9	174.4	187.7	189.3	-	145.2	146.7	160.1	161.8	-
Nonmetallic minerals, except fuels .....	14	110.2	109.4	112.1	111.5	110.3	84.4	83.5	85.4	85.0	-
Crushed and broken stone .....	142	41.8	41.6	42.2	41.9	-	32.9	32.7	33.2	33.0	-
Sand and gravel .....	144	37.6	37.2	39.0	38.8	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	12.5	12.5	12.1	12.1	-	-	-	-	-	-
<b>Construction</b> .....		5,725	5,717	5,980	5,933	5,921	4,494	4,484	4,691	4,647	4,634
General building contractors .....	15	1,302.7	1,297.7	1,369.0	1,350.3	1,350.1	930.9	926.7	979.9	959.6	-
Residential building construction .....	152	662.7	658.5	700.6	690.1	-	455.3	452.1	484.9	472.5	-
Operative builders .....	153	26.6	26.5	28.3	27.5	-	11.3	11.2	11.6	11.3	-
Nonresidential building construction .....	154	613.4	612.7	640.1	632.7	-	464.3	463.4	483.4	475.8	-
Heavy construction, except building .....	16	851.7	847.3	837.0	844.5	841.3	723.6	719.0	706.4	714.7	-
Highway and street construction .....	161	281.4	274.3	287.9	288.0	-	235.3	228.3	242.0	242.4	-
Heavy construction, except highway .....	162	570.3	573.0	549.1	556.5	-	488.3	490.7	464.4	472.3	-
Special trade contractors .....	17	3,570.8	3,571.7	3,774.2	3,738.2	3,729.8	2,839.3	2,838.5	3,005.1	2,973.1	-
Plumbing, heating, and air conditioning .....	171	777.6	781.9	816.3	810.6	-	577.4	580.4	606.9	603.9	-
Painting and paper hanging .....	172	206.8	205.0	223.4	216.2	-	172.8	170.8	188.2	181.1	-
Electrical work .....	173	656.9	656.1	701.7	701.3	-	519.5	518.7	556.6	555.6	-
Masonry, stonework, and plastering .....	174	469.6	471.3	499.2	496.0	-	408.3	409.5	431.8	428.0	-
Carpentry and floor work .....	175	249.1	247.9	268.6	263.9	-	191.0	190.1	208.3	203.9	-
Roofing, siding, and sheet metal work .....	176	246.6	248.3	254.8	252.2	-	201.5	202.8	206.3	203.2	-
<b>Manufacturing</b> .....		18,550	18,523	18,672	18,661	18,664	12,840	12,811	12,912	12,925	12,924
<b>Durable goods</b> .....		10,805	10,806	10,974	10,976	11,006	7,402	7,402	7,527	7,541	7,565
Lumber and wood products .....	24	794.8	794.0	814.8	810.9	808.1	654.9	654.8	671.5	669.5	666.9
Logging .....	241	82.3	81.4	83.8	84.6	-	66.1	65.5	67.4	68.1	-
Sawmills and planing mills .....	242	183.3	183.0	190.2	189.3	-	159.4	159.2	165.8	165.1	-
Sawmills and planing mills, general .....	2421	146.1	145.8	151.2	150.1	-	126.5	126.3	131.4	130.4	-
Hardwood dimension and flooring mills .....	2426	35.4	35.4	37.0	37.2	-	31.3	31.4	32.7	33.0	-
Millwork, plywood, and structural members .....	243	294.0	294.2	301.7	298.3	-	237.1	237.3	242.4	240.3	-
Millwork .....	2431	117.5	117.8	120.2	118.1	-	91.3	91.6	92.3	91.2	-
Wood kitchen cabinets .....	2434	79.8	80.0	83.0	82.6	-	64.1	64.2	67.2	67.0	-
Hardwood veneer and plywood .....	2435	27.8	27.7	28.3	28.0	-	23.6	23.5	24.0	23.7	-
Softwood veneer and plywood .....	2436	30.5	30.4	30.6	30.3	-	28.4	28.3	28.3	28.0	-
Wood containers .....	244	52.9	52.8	54.5	54.4	-	45.0	45.0	46.7	46.7	-
Wood buildings and mobile homes .....	245	92.9	92.6	94.1	93.1	-	74.6	74.5	75.6	74.7	-
Mobile homes .....	2451	70.6	70.5	70.6	69.9	-	59.2	59.1	59.5	58.7	-
Miscellaneous wood products .....	249	89.4	90.0	90.5	91.2	-	72.7	73.3	73.6	74.6	-
Furniture and fixtures .....	25	504.5	504.7	507.0	509.0	513.9	399.5	399.2	402.4	405.0	409.3
Household furniture .....	251	273.4	274.4	270.2	271.9	-	229.6	230.3	227.3	229.5	-
Wood household furniture .....	2511	123.7	124.0	121.2	121.2	-	106.5	106.8	105.1	105.4	-
Upholstered household furniture .....	2512	85.1	85.7	85.4	85.3	-	71.6	72.0	71.9	71.8	-
Metal household furniture .....	2514	19.4	20.1	17.7	19.0	-	15.6	16.3	14.3	15.7	-
Mattresses and bedsprings .....	2515	32.7	32.5	34.2	34.8	-	25.3	25.0	26.3	26.9	-

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
		<b>Durable goods—Continued</b>									
Furniture and fixtures—Continued											
Office furniture .....	252	61.8	61.3	62.9	62.3	—	45.8	45.1	46.5	46.1	—
Public building and related furniture .....	253	44.1	44.0	45.2	45.4	—	34.9	34.8	35.7	36.5	—
Partitions and fixtures .....	254	86.5	86.3	89.1	89.1	—	64.1	63.9	66.8	67.0	—
Miscellaneous furniture and fixtures .....	259	38.7	38.7	39.6	39.3	—	25.1	25.1	26.1	25.9	—
Stone, clay, and glass products .....	32	551.5	551.1	552.4	551.2	549.3	431.2	431.0	432.5	431.6	430.3
Flat glass .....	321	15.8	15.7	15.4	15.9	—	12.6	12.5	12.4	12.8	—
Glass and glassware, pressed or blown .....	322	72.7	72.3	71.3	71.8	—	61.1	61.0	59.2	59.5	—
Glass containers .....	3221	27.7	27.3	25.3	25.3	—	24.9	24.5	22.7	22.6	—
Pressed and blown glass, nec .....	3229	45.0	45.0	46.0	46.5	—	36.2	36.5	36.5	36.9	—
Products of purchased glass .....	323	60.4	60.6	59.7	60.0	—	47.0	47.1	46.8	47.0	—
Cement, hydraulic .....	324	17.3	17.3	17.8	17.3	—	13.2	13.1	13.7	13.2	—
Structural clay products .....	325	33.4	33.3	33.2	32.8	—	26.2	26.1	25.8	25.6	—
Pottery and related products .....	326	39.9	40.4	39.1	38.8	—	31.9	32.3	31.0	30.6	—
Concrete, gypsum, and plaster products .....	327	221.1	220.4	224.6	223.9	—	170.5	170.0	173.7	173.3	—
Concrete block and brick .....	3271	18.1	18.1	18.8	18.5	—	11.5	11.4	12.1	12.1	—
Concrete products, nec .....	3272	72.6	72.5	74.6	74.6	—	55.2	55.1	56.8	57.0	—
Ready-mixed concrete .....	3273	112.6	112.1	113.6	113.1	—	90.0	89.7	90.8	90.2	—
Misc. nonmetallic mineral products .....	329	76.2	76.5	76.4	75.8	—	58.0	58.3	58.8	58.5	—
Abrasive products .....	3291	19.9	20.0	19.6	19.5	—	15.6	15.7	15.6	15.6	—
Asbestos products .....	3292	2.7	2.6	2.6	2.6	—	2.2	2.2	2.2	2.2	—
Mineral wool .....	3296	23.8	23.9	23.9	23.6	—	—	—	—	—	—
Primary metal industries .....	33	712.2	708.0	711.4	712.6	711.8	555.2	552.6	556.6	557.5	558.5
Blast furnaces and basic steel products .....	331	240.9	236.6	235.7	236.3	235.9	185.7	182.1	181.8	181.8	181.9
Blast furnaces and steel mills .....	3312	169.5	165.3	162.7	163.6	—	131.4	128.0	126.5	126.8	—
Steel pipe and tubes .....	3317	26.4	26.5	26.9	26.9	—	20.0	19.9	20.3	20.3	—
Iron and steel foundries .....	332	129.4	129.1	132.0	132.8	—	105.8	105.9	108.5	109.0	—
Gray and ductile iron foundries .....	3321	82.0	81.7	83.1	83.4	—	67.9	67.9	69.2	69.2	—
Malleable iron foundries .....	3322	4.1	4.0	3.9	3.8	—	3.2	3.2	3.0	2.9	—
Steel foundries, nec .....	3325	27.0	27.0	26.8	27.2	—	21.9	21.9	21.9	22.3	—
Primary nonferrous metals .....	333	39.4	39.2	39.2	39.0	—	30.3	30.2	30.2	30.1	—
Primary aluminum .....	3334	22.8	22.7	22.3	22.1	—	18.2	18.2	17.9	17.9	—
Nonferrous rolling and drawing .....	335	168.2	168.0	168.2	167.5	—	127.6	128.0	128.8	128.8	—
Copper rolling and drawing .....	3351	22.5	22.6	22.4	22.5	—	17.4	17.5	17.5	17.8	—
Aluminum sheet, plate, and foil .....	3353	21.7	21.3	21.1	21.0	—	15.8	15.9	15.6	15.5	—
Nonferrous wire drawing and insulating .....	3357	72.6	72.4	72.4	71.8	—	54.9	54.8	55.2	55.0	—
Nonferrous foundries (castings) .....	336	89.6	90.1	90.9	91.1	—	73.1	73.5	73.9	73.9	—
Aluminum foundries .....	3365	24.4	24.7	24.6	24.8	—	20.1	20.3	20.2	20.4	—
Fabricated metal products .....	34	1,455.9	1,458.9	1,476.2	1,479.7	1,483.3	1,096.4	1,098.7	1,114.8	1,118.5	1,120.6
Metal cans and shipping containers .....	341	39.2	38.4	38.2	38.2	—	33.7	33.0	32.6	32.6	—
Metal cans .....	3411	31.8	31.1	30.8	30.8	—	27.7	27.0	26.6	26.6	—
Cutlery, handtools, and hardware .....	342	125.3	126.2	126.4	126.6	—	94.9	95.3	96.4	96.7	—
Hand and edge tools, and blades and handsaws ...	3423.5	43.6	43.7	43.0	43.0	—	33.8	33.8	33.3	33.1	—
Hardware, nec .....	3429	69.6	70.2	70.7	70.9	—	53.1	53.5	53.7	54.2	—
Plumbing and heating, except electric .....	343	58.7	59.1	58.4	58.8	—	42.2	42.8	41.6	42.1	—
Plumbing fixture fittings and trim .....	3432	23.0	23.2	22.9	22.9	—	16.8	16.9	16.5	16.6	—
Heating equipment, except electric .....	3433	21.5	21.6	21.5	21.7	—	14.7	15.1	14.6	14.8	—
Fabricated structural metal products .....	344	445.2	446.2	451.1	450.7	—	326.9	328.0	331.3	331.2	—
Fabricated structural metal .....	3441	75.1	74.7	77.1	77.0	—	55.5	54.8	56.6	56.7	—
Metal doors, sash, and trim .....	3442	78.5	78.9	77.5	77.4	—	58.8	58.9	57.6	57.6	—
Fabricated plate work (boiler shops) .....	3443	101.6	101.8	100.3	100.2	—	72.8	73.5	72.2	72.1	—
Sheet metal work .....	3444	118.1	118.9	122.7	122.5	—	91.1	91.9	94.3	94.2	—
Architectural metal work .....	3446	30.1	29.8	30.1	30.3	—	21.5	21.3	21.8	22.0	—
Screw machine products, bolts, etc .....	345	100.6	101.2	103.7	104.6	—	79.0	79.3	81.2	82.1	—
Screw machine products .....	3451	51.8	52.2	53.9	54.4	—	42.3	42.4	43.7	44.1	—
Bolts, nuts, rivets, and washers .....	3452	48.8	49.0	49.8	50.2	—	36.7	36.9	37.5	38.0	—
Metal forgings and stampings .....	346	251.9	252.0	253.9	255.2	—	202.0	202.1	203.0	203.6	—
Iron and steel forgings .....	3462	30.5	30.5	32.1	32.4	—	23.4	23.4	24.6	24.9	—
Automotive stampings .....	3465	117.4	116.9	113.1	113.9	—	98.7	98.3	93.9	94.5	—
Metal stampings, nec .....	3469	92.9	93.5	97.3	97.5	—	71.7	72.1	76.0	75.9	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Metal services, nec .....	347	134.5	136.2	143.2	143.7	—	106.3	107.9	115.6	115.9	—
Plating and polishing .....	3471	81.9	83.0	88.7	89.0	—	64.8	65.8	72.5	72.6	—
Metal coating and allied services .....	3479	52.6	53.2	54.5	54.7	—	41.5	42.1	43.1	43.3	—
Ordnance and accessories, nec .....	348	47.4	46.5	42.6	42.6	—	26.1	24.9	23.0	23.8	—
Ammunition, except for small arms, nec .....	3483	24.4	23.8	22.4	22.3	—	10.5	9.7	9.7	10.2	—
Miscellaneous fabricated metal products .....	349	253.1	253.1	258.7	259.3	—	185.3	185.4	190.1	190.5	—
Valves and pipe fittings, nec .....	3494	24.9	24.9	25.3	25.6	—	18.6	18.6	18.9	19.1	—
Misc. fabricated wire products .....	3496	54.8	54.8	55.6	55.5	—	41.4	41.4	41.8	41.8	—
Industrial machinery and equipment .....	35	2,103.5	2,106.5	2,158.3	2,159.0	2,167.4	1,310.1	1,312.1	1,352.4	1,355.8	1,362.0
Engines and turbines .....	351	83.3	82.8	81.7	82.0	—	52.0	52.0	51.5	52.2	—
Turbines and turbine generator sets .....	3511	25.0	24.7	24.4	24.2	—	14.0	14.0	13.5	13.5	—
Internal combustion engines, nec .....	3519	58.3	58.1	57.3	57.8	—	38.0	38.0	38.0	38.7	—
Farm and garden machinery .....	352	95.4	96.8	102.9	102.4	—	68.0	69.3	74.2	73.3	—
Farm machinery and equipment .....	3523	72.8	73.6	77.4	77.4	—	52.1	52.9	55.8	56.0	—
Construction and related machinery .....	353	232.4	231.6	241.0	242.9	—	150.7	150.1	156.8	157.9	—
Construction machinery .....	3531	86.4	85.8	86.6	87.6	—	58.5	58.2	59.1	59.6	—
Mining machinery .....	3532	16.3	16.3	16.7	16.7	—	9.4	9.5	9.9	9.9	—
Oil and gas field machinery .....	3533	41.3	41.3	46.0	46.8	—	28.1	27.8	31.2	32.1	—
Conveyors and conveying equipment .....	3535	40.3	40.2	42.4	42.3	—	22.9	22.9	23.9	23.6	—
Industrial trucks and tractors .....	3537	30.0	29.9	30.7	30.8	—	20.6	20.4	21.3	21.2	—
Metalworking machinery .....	354	344.6	344.7	348.8	350.5	—	244.1	244.5	248.8	250.5	—
Machine tools, metal cutting types .....	3541	41.3	41.4	41.3	41.5	—	25.2	25.5	25.9	26.2	—
Machine tools, metal forming types .....	3542	17.3	17.2	17.3	17.4	—	11.2	11.1	10.9	11.0	—
Special dies, tools, jigs, and fixtures .....	3544	164.7	164.4	167.4	168.6	—	125.2	124.8	128.1	129.0	—
Machine tool accessories .....	3545	52.2	52.6	53.3	53.5	—	36.2	36.7	37.6	38.0	—
Power driven handtools .....	3546	22.9	22.8	21.7	21.5	—	15.7	15.8	15.2	14.8	—
Special industry machinery .....	355	176.3	174.0	178.0	178.8	—	98.5	97.6	98.2	99.1	—
Textile machinery .....	3552	14.7	14.8	14.8	14.9	—	9.7	9.7	9.7	9.8	—
Printing trades machinery .....	3555	22.5	21.7	21.7	21.7	—	12.7	12.3	12.3	12.4	—
Food products machinery .....	3556	25.3	25.3	25.0	25.3	—	15.2	15.3	14.7	15.1	—
General industrial machinery .....	356	256.6	256.4	258.7	258.4	—	163.9	163.8	164.9	165.6	—
Pumps and pumping equipment .....	3561	30.1	30.1	30.8	30.1	—	17.1	17.1	17.6	17.5	—
Ball and roller bearings .....	3562	39.7	39.8	39.7	39.9	—	31.4	31.5	30.9	31.0	—
Air and gas compressors .....	3563	25.9	25.6	25.8	25.8	—	15.2	15.0	15.0	15.2	—
Blowers and fans .....	3564	35.1	35.2	35.7	35.6	—	23.2	23.3	24.0	24.1	—
Speed changers, drives, and gears .....	3566	17.4	17.3	18.0	18.0	—	12.2	12.2	12.9	13.0	—
Power transmission equipment, nec .....	3568	21.3	21.4	21.6	21.7	—	14.9	15.0	15.0	15.1	—
Computer and office equipment .....	357	362.6	364.0	385.4	382.5	384.6	126.6	127.4	144.8	143.9	—
Electronic computers .....	3571	188.8	190.4	198.4	196.9	—	54.1	55.4	65.8	65.8	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	58.2	58.3	61.7	61.6	—	23.1	23.3	25.3	25.5	—
Refrigeration and service machinery .....	358	204.5	206.9	201.3	200.5	—	147.1	147.8	143.3	142.6	—
Refrigeration and heating equipment .....	3585	141.8	144.1	136.9	136.1	—	107.8	108.5	102.9	102.2	—
Misc. industrial and commercial machinery .....	359	347.8	349.3	360.5	361.0	—	259.2	259.6	269.9	270.7	—
Carburetors, pistons, rings, valves .....	3592	23.0	23.0	23.1	22.9	—	17.9	18.0	18.3	18.3	—
Scales, balances, and industrial machinery, nec .....	3596,9	278.9	280.4	288.7	289.2	—	213.1	213.5	221.4	222.0	—
Electronic and other electrical equipment .....	36	1,652.1	1,652.1	1,660.3	1,663.9	1,670.9	1,048.1	1,047.8	1,049.9	1,052.4	1,060.3
Electric distribution equipment .....	361	81.5	81.2	79.9	79.6	—	55.5	55.2	54.4	53.9	—
Transformers, except electronic .....	3612	39.9	39.7	37.2	37.4	—	28.3	28.2	25.9	25.9	—
Switchgear and switchboard apparatus .....	3613	41.6	41.5	42.7	42.2	—	27.2	27.0	28.5	28.0	—
Electrical industrial apparatus .....	362	155.8	155.8	151.4	153.2	—	108.6	108.5	104.8	106.6	—
Motors and generators .....	3621	75.3	74.8	72.9	74.9	—	58.4	57.9	56.5	58.4	—
Relays and industrial controls .....	3625	60.2	60.6	58.1	57.8	—	35.5	35.8	33.5	33.5	—
Household appliances .....	363	122.0	121.9	115.1	115.7	—	97.6	96.9	89.7	90.5	—
Household refrigerators and freezers .....	3632	30.8	30.0	24.9	24.6	—	25.4	24.4	18.9	18.7	—
Household laundry equipment .....	3633	16.4	16.6	17.6	17.6	—	13.1	13.2	13.9	13.9	—
Electric housewares and fans .....	3634	28.1	28.2	26.5	27.2	—	21.6	21.7	20.2	21.0	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment .....	364	177.5	178.0	178.0	178.7	—	126.9	127.3	127.3	128.0	—
Electric lamps .....	3641	22.4	22.3	22.3	22.4	—	17.3	17.3	17.3	17.3	—
Current-carrying wiring devices .....	3643	61.9	62.1	61.7	61.6	—	40.0	40.2	40.6	40.6	—
Noncurrent-carrying wiring devices .....	3644	17.1	17.2	17.7	17.7	—	13.3	13.3	13.3	13.3	—
Residential lighting fixtures .....	3645	20.0	20.3	20.4	20.7	—	15.1	15.3	15.1	15.4	—
Household audio and video equipment .....	365	83.5	84.2	77.0	77.6	—	56.1	56.5	49.3	49.9	—
Household audio and video equipment .....	3651	55.6	56.1	52.6	53.0	—	34.5	34.5	30.7	31.1	—
Communications equipment .....	366	269.6	269.8	273.9	271.9	—	128.1	128.2	129.5	128.2	—
Telephone and telegraph apparatus .....	3661	113.0	113.2	114.2	114.0	—	57.2	56.9	55.9	55.7	—
Electronic components and accessories .....	367	609.0	607.9	636.9	638.7	644.7	363.4	363.3	388.2	388.1	—
Electron tubes .....	3671	23.3	23.3	22.6	22.6	—	16.4	16.4	16.5	16.6	—
Semiconductors and related devices .....	3674	257.8	256.2	272.0	272.5	—	114.7	114.0	126.1	124.3	—
Electronic components, nec .....	3679	135.5	135.8	140.8	141.0	—	90.3	90.6	96.0	96.6	—
Misc. electrical equipment and supplies .....	369	153.2	153.3	148.1	148.5	—	111.9	111.9	106.7	107.2	—
Storage batteries .....	3691	27.6	27.7	27.2	27.2	—	21.8	21.8	20.9	21.0	—
Engine electrical equipment .....	3694	68.5	68.7	66.0	66.3	—	54.6	54.9	51.9	52.2	—
Transportation equipment .....	37	1,788.0	1,784.4	1,846.4	1,844.0	1,850.8	1,211.2	1,207.4	1,255.1	1,258.3	1,263.3
Motor vehicles and equipment .....	371	969.7	958.9	983.6	977.3	978.6	763.4	755.5	779.6	775.9	777.0
Motor vehicles and car bodies .....	3711	344.7	338.2	348.6	342.4	—	261.8	257.3	271.5	267.2	—
Truck and bus bodies .....	3713	39.3	38.6	41.5	40.8	—	31.6	30.9	33.1	32.4	—
Motor vehicle parts and accessories .....	3714	533.3	530.7	537.6	537.8	—	427.8	425.9	429.5	430.5	—
Truck trailers .....	3715	33.8	32.9	36.9	37.1	—	26.9	26.0	29.9	30.0	—
Aircraft and parts .....	372	461.3	470.7	511.6	514.9	519.4	221.3	227.7	257.8	262.5	—
Aircraft .....	3721	242.9	250.1	269.7	271.5	—	96.1	100.4	113.9	116.8	—
Aircraft engines and engine parts .....	3724	95.5	96.0	100.8	100.9	—	49.8	50.7	54.2	54.8	—
Aircraft parts and equipment, nec .....	3728	122.9	124.6	141.1	142.5	—	75.4	76.6	89.7	90.9	—
Ship and boat building and repairing .....	373	155.1	153.2	147.4	147.9	—	119.4	117.7	110.7	112.1	—
Ship building and repairing .....	3731	99.6	97.9	92.4	92.7	—	73.1	71.5	64.8	66.2	—
Boat building and repairing .....	3732	55.5	55.3	55.0	55.2	—	46.3	46.2	45.9	45.9	—
Railroad equipment .....	374	36.2	35.9	34.7	34.8	—	27.2	27.1	25.8	26.0	—
Guided missiles, space vehicles, and parts .....	376	90.3	90.1	91.0	91.0	—	24.6	24.2	24.3	24.4	—
Guided missiles and space vehicles .....	3761	63.1	62.9	63.3	63.1	—	15.7	15.3	15.4	15.5	—
Miscellaneous transportation equipment .....	379	53.2	52.8	53.3	53.2	—	38.6	38.4	38.6	38.8	—
Travel trailers and campers .....	3792	22.1	21.8	22.1	22.1	—	18.7	18.4	18.5	18.5	—
Instruments and related products .....	38	854.4	854.6	859.1	858.2	860.7	421.5	422.5	419.5	420.4	420.4
Search and navigation equipment .....	381	160.5	161.0	162.4	161.7	—	45.6	45.4	42.5	42.1	—
Measuring and controlling devices .....	382	297.6	298.0	301.6	301.5	—	150.5	151.3	153.5	153.6	—
Environmental controls .....	3822	42.2	42.3	41.6	41.4	—	27.4	27.5	28.1	28.0	—
Process control instruments .....	3823	66.2	66.0	66.0	65.8	—	33.2	33.2	33.7	33.5	—
Instruments to measure electricity .....	3825	75.8	75.7	78.2	78.1	—	33.1	33.1	32.8	32.7	—
Medical instruments and supplies .....	384	268.5	267.9	268.7	268.6	—	157.3	157.6	155.5	156.0	—
Surgical and medical instruments .....	3841	105.3	104.7	104.4	103.6	—	67.5	67.4	65.8	65.4	—
Surgical appliances and supplies .....	3842	92.5	92.7	91.9	92.3	—	57.0	57.2	56.2	56.9	—
Ophthalmic goods .....	385	35.4	35.3	35.2	35.5	—	22.9	22.9	21.8	22.8	—
Photographic equipment and supplies .....	386	84.5	84.6	83.5	83.3	—	38.8	38.9	39.8	39.6	—
Watches, clocks, watchcases, and parts .....	387	7.9	7.8	7.7	7.6	—	6.4	6.4	6.4	6.3	—
Miscellaneous manufacturing industries .....	39	388.3	391.2	388.2	387.6	389.7	274.2	276.3	272.4	271.9	273.3
Jewelry, silverware, and plated ware .....	391	49.4	49.9	47.7	48.1	—	34.1	34.6	32.9	33.3	—
Jewelry, precious metal .....	3911	37.0	37.6	35.6	36.0	—	25.1	25.6	24.2	24.6	—
Musical instruments .....	393	15.9	15.8	15.9	16.0	—	12.5	12.4	12.6	12.6	—
Toys and sporting goods .....	394	112.0	113.1	108.0	107.2	—	78.0	79.0	73.9	73.5	—
Dolls, games, toys, and children's vehicles .....	3942.4	41.4	41.7	39.3	39.6	—	27.9	28.2	26.0	26.3	—
Sporting and athletic goods, nec .....	3949	70.6	71.4	68.7	67.6	—	50.1	50.8	47.9	47.2	—
Pens, pencils, office, and art supplies .....	395	31.1	31.5	31.4	30.9	—	20.9	21.2	21.2	20.8	—
Costume jewelry and notions .....	396	24.7	25.1	24.5	24.5	—	17.6	17.9	17.1	17.0	—
Costume jewelry .....	3961	14.4	14.8	14.1	14.3	—	10.3	10.6	9.8	9.8	—
Miscellaneous manufactures .....	399	155.2	155.8	160.7	160.9	—	111.1	111.2	114.7	114.7	—
Signs and advertising specialties .....	3993	65.9	66.3	68.4	68.6	—	43.8	44.0	44.9	44.8	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
		<b>Nondurable goods</b> .....		7,745	7,717	7,698	7,685	7,658	5,438	5,409	5,385
Food and kindred products .....	20	1,754.0	1,724.6	1,758.3	1,754.0	1,726.1	1,313.8	1,287.2	1,317.0	1,316.2	1,288.7
Meat products .....	201	479.4	483.2	484.9	484.8	—	408.7	411.4	410.9	411.9	—
Meat packing plants .....	2011	146.5	148.1	147.5	148.5	—	123.1	124.2	122.9	124.5	—
Sausages and other prepared meats .....	2013	95.6	96.6	96.9	96.7	—	74.5	75.0	74.9	75.0	—
Poultry slaughtering and processing .....	2015	237.3	238.5	240.5	239.6	—	211.1	212.2	213.1	212.4	—
Dairy products .....	202	142.9	141.0	144.5	142.5	—	94.2	93.3	96.3	94.6	—
Cheese, natural and processed .....	2022	41.0	40.7	41.0	40.3	—	33.4	33.3	33.7	33.0	—
Fluid milk .....	2026	61.3	61.5	62.1	62.0	—	34.4	34.6	35.3	35.1	—
Preserved fruits and vegetables .....	203	288.1	252.8	281.2	272.5	—	247.4	214.0	244.1	235.8	—
Canned specialties .....	2032	21.9	21.0	19.8	20.8	—	17.8	16.9	16.0	17.0	—
Canned fruits and vegetables .....	2033	114.6	82.7	112.6	103.0	—	100.5	69.7	99.7	90.7	—
Frozen fruits and vegetables .....	2037	54.8	53.7	55.8	54.3	—	48.5	47.7	49.7	48.0	—
Grain mill products .....	204	127.5	127.1	126.1	127.0	—	91.0	90.8	90.0	91.5	—
Flour and other grain mill products .....	2041	19.3	19.5	19.5	19.5	—	12.2	12.6	12.0	12.0	—
Prepared feeds, nec .....	2048	40.7	41.0	40.3	40.3	—	25.7	26.0	26.0	26.3	—
Bakery products .....	205	210.4	211.6	208.7	210.9	—	142.0	142.8	140.7	142.3	—
Bread, cake, and related products .....	2051	148.7	149.7	148.8	150.4	—	90.9	91.4	90.6	91.5	—
Cookies, crackers, and frozen bakery products, except bread .....	2052.3	61.7	61.9	59.9	60.5	—	51.1	51.4	50.1	50.8	—
Sugar and confectionery products .....	206	101.0	110.5	95.2	101.3	—	80.5	89.2	75.1	81.0	—
Raw cane sugar .....	2061	4.2	5.2	4.4	5.0	—	3.2	3.8	3.2	3.7	—
Cane sugar refining .....	2062	4.3	4.3	4.3	4.2	—	3.3	3.2	3.2	3.1	—
Beet sugar .....	2063	8.9	13.3	7.0	9.0	—	7.8	12.1	6.0	7.9	—
Candy and other confectionery products .....	2064	55.9	59.5	53.8	55.4	—	45.5	48.9	43.5	45.1	—
Fats and oils .....	207	32.1	32.3	33.2	33.3	—	22.2	22.5	22.8	23.0	—
Beverages .....	208	181.8	179.2	184.4	184.3	—	86.3	85.3	89.8	90.8	—
Malt beverages .....	2082	36.2	36.0	35.2	34.8	—	23.1	22.9	22.5	22.1	—
Bottled and canned soft drinks .....	2086	94.2	92.8	96.6	95.3	—	38.5	37.9	40.1	39.4	—
Misc. food and kindred products .....	209	190.8	186.9	200.1	197.4	—	141.5	137.9	147.3	145.3	—
Tobacco products .....	21	43.5	44.1	40.7	42.4	43.7	34.4	35.0	31.0	34.0	35.1
Cigarettes .....	211	28.2	28.3	27.8	27.8	—	20.8	21.0	20.5	21.1	—
Textile mill products .....	22	620.4	620.8	607.7	607.1	604.7	525.8	526.7	515.1	515.3	512.2
Broadwoven fabric mills, cotton .....	221	73.8	73.7	70.6	70.7	—	65.2	65.1	62.9	63.1	—
Broadwoven fabric mills, synthetics .....	222	66.5	66.5	64.9	65.3	—	56.1	55.9	54.3	54.7	—
Broadwoven fabric mills, wool .....	223	12.7	14.2	14.1	14.3	—	10.8	12.1	12.0	12.1	—
Narrow fabric mills .....	224	21.0	20.9	21.1	21.0	—	17.4	17.4	17.5	17.4	—
Knitting mills .....	225	177.2	177.1	172.4	171.5	—	152.3	152.5	147.8	148.8	—
Women's hosiery, except socks .....	2251	20.8	20.9	20.1	20.0	—	18.1	18.3	17.7	17.6	—
Hosiery, nec .....	2252	39.3	39.2	38.9	38.6	—	34.4	34.3	33.9	33.6	—
Knit outerwear mills .....	2253	53.7	54.4	51.9	51.6	—	46.3	47.0	44.4	44.0	—
Knit underwear mills .....	2254	18.4	18.2	16.6	16.3	—	16.4	16.1	14.5	14.3	—
Wett knit fabric mills .....	2257	23.8	23.3	23.5	23.5	—	19.5	19.2	19.7	19.7	—
Textile finishing, except wool .....	226	68.3	68.3	64.2	63.6	—	55.7	55.8	52.1	51.9	—
Finishing plants, cotton .....	2261	32.1	32.1	30.1	29.7	—	26.1	26.2	24.3	24.3	—
Finishing plants, synthetics .....	2262	21.8	21.7	20.6	20.3	—	17.5	17.4	16.4	16.2	—
Carpets and rugs .....	227	61.2	61.1	62.1	62.4	—	49.9	50.0	51.4	51.8	—
Yarn and thread mills .....	228	87.9	87.3	87.0	87.2	—	78.1	77.6	76.9	77.4	—
Yarn spinning mills .....	2281	64.5	64.2	63.6	63.8	—	57.7	57.6	56.5	57.0	—
Throwing and winding mills .....	2282	16.5	16.2	16.2	16.2	—	14.3	13.9	13.9	13.9	—
Miscellaneous textile goods .....	229	51.8	51.7	51.3	51.1	—	40.3	40.3	40.2	40.1	—
Apparel and other textile products .....	23	861.1	857.2	812.2	811.0	810.0	705.7	702.4	660.8	661.1	661.2
Men's and boys' suits and coats .....	231	32.0	32.0	29.7	30.0	—	25.9	26.0	24.0	24.1	—
Men's and boys' furnishings .....	232	221.3	221.3	210.1	206.9	—	187.3	187.5	177.1	174.5	—
Men's and boys' shirts .....	2321	45.2	45.0	44.3	43.3	—	38.2	37.9	37.8	37.2	—
Men's and boys' trousers and slacks .....	2325	75.3	75.8	71.2	70.1	—	64.6	65.3	61.1	60.1	—
Men's and boys' work clothing .....	2326	33.0	33.0	30.8	29.5	—	28.4	28.5	26.4	25.3	—
Women's and misses' outerwear .....	233	254.9	252.4	237.3	238.3	—	207.9	205.6	191.5	193.3	—
Women's and misses' blouses and shirts .....	2331	26.1	25.9	25.3	25.1	—	20.4	20.4	19.6	19.6	—
Women's, juniors', and misses' dresses .....	2335	40.1	39.0	37.4	38.1	—	31.9	30.9	29.4	30.0	—
Women's and misses' suits and coats .....	2337	25.4	25.7	27.2	27.2	—	19.8	20.4	21.2	21.5	—
Women's and misses' outerwear, nec .....	2339	163.3	161.8	147.4	147.9	—	135.8	133.9	121.3	122.2	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	41.3	40.9	36.9	36.5	—	32.9	32.4	29.2	28.6	—
Women's and children's underwear .....	2341	30.3	30.1	26.7	26.4	—	25.3	25.1	21.7	21.3	—
Brassieres, girdles, and allied garments .....	2342	11.0	10.8	10.2	10.1	—	7.6	7.3	7.5	7.3	—
Girls' and children's outerwear .....	236	35.3	34.5	30.2	31.0	—	29.3	28.5	24.7	25.5	—
Girls' and children's dresses and blouses .....	2361	13.1	13.0	11.6	11.9	—	11.2	11.0	9.8	10.2	—
Misc. apparel and accessories .....	238	34.7	34.7	33.5	33.5	—	28.3	28.4	26.9	26.8	—
Misc. fabricated textile products .....	239	222.1	222.3	216.3	216.8	—	178.8	178.9	173.1	174.1	—
Curtains and draperies .....	2391	20.3	20.1	19.3	18.4	—	16.0	15.9	15.1	14.5	—
House furnishings, nec .....	2392	56.0	56.2	55.1	55.6	—	47.7	47.9	46.9	47.3	—
Automotive and apparel trimmings .....	2396	62.4	62.5	59.0	59.6	—	49.9	49.8	46.4	47.6	—
Paper and allied products .....	26	680.9	678.5	679.7	677.3	674.4	519.2	517.9	518.3	516.9	515.3
Paper mills .....	262	160.2	158.8	161.2	158.8	—	124.3	124.0	125.7	123.9	—
Paperboard mills .....	263	49.7	49.4	49.4	48.9	—	38.0	37.7	38.1	37.9	—
Paperboard containers and boxes .....	265	218.1	218.2	218.5	218.1	—	169.3	169.5	169.2	169.1	—
Corrugated and solid fiber boxes .....	2653	129.3	129.6	130.6	130.3	—	96.8	97.1	97.7	97.5	—
Sanitary food containers .....	2656	17.6	17.1	17.1	17.0	—	15.6	15.1	15.3	15.2	—
Folding paperboard boxes .....	2657	48.4	48.7	48.3	48.4	—	39.3	39.7	38.9	39.1	—
Misc. converted paper products .....	267	240.4	239.7	239.1	240.1	—	177.7	176.9	176.1	176.9	—
Paper, coated and laminated, nec .....	2672	46.4	46.1	47.1	46.6	—	24.8	24.4	24.3	23.7	—
Bags: plastics, laminated, and coated .....	2673	38.5	38.5	39.0	39.0	—	29.8	29.8	30.6	30.7	—
Envelopes .....	2677	23.7	23.8	24.3	24.5	—	18.5	18.6	19.0	19.2	—
Printing and publishing .....	27	1,531.2	1,537.3	1,546.4	1,543.0	1,549.6	834.5	836.1	841.7	836.7	841.7
Newspapers .....	271	441.5	443.8	448.1	447.6	—	149.2	149.9	149.4	149.4	—
Periodicals .....	272	131.5	131.2	133.9	132.8	—	43.8	43.3	46.2	45.4	—
Books .....	273	121.9	121.4	122.5	122.4	—	63.1	62.4	63.5	62.6	—
Book publishing .....	2731	83.8	83.3	84.1	84.3	—	32.8	32.3	33.2	32.8	—
Book printing .....	2732	38.1	38.1	38.4	38.1	—	30.3	30.1	30.3	29.8	—
Miscellaneous publishing .....	274	85.7	86.0	90.0	89.4	—	40.3	39.9	41.4	41.2	—
Commercial printing .....	275	563.2	565.9	565.6	566.2	—	402.6	404.2	405.1	404.5	—
Commercial printing, lithographic .....	2752	364.8	366.0	367.9	368.6	—	260.4	261.0	262.8	262.3	—
Commercial printing, nec .....	2759	177.6	179.0	178.3	177.5	—	125.8	126.7	126.8	126.2	—
Manifold business forms .....	276	43.8	44.1	44.1	44.2	—	30.5	30.7	31.0	31.0	—
Blankbooks and bookbinding .....	278	65.3	66.5	65.9	64.6	—	50.4	51.2	50.8	49.3	—
Printing trade services .....	279	50.9	50.9	49.0	48.9	—	35.5	35.3	33.2	33.0	—
Chemicals and allied products .....	28	1,029.8	1,028.6	1,029.6	1,025.8	1,024.5	572.1	570.1	569.7	571.1	571.0
Industrial inorganic chemicals .....	281	118.4	118.1	116.0	115.6	—	54.5	54.4	57.2	58.3	—
Industrial inorganic chemicals, nec .....	2819	72.6	72.5	70.6	70.3	—	36.0	35.9	35.3	35.8	—
Plastics materials and synthetics .....	282	158.8	158.6	156.0	155.2	—	105.0	104.7	104.4	104.1	—
Plastics materials and resins .....	2821	76.3	76.1	77.6	77.1	—	47.4	47.2	48.5	48.2	—
Organic fibers, noncellulosic .....	2824	48.9	48.8	47.0	46.9	—	37.6	37.5	36.5	36.6	—
Drugs .....	283	257.1	256.8	261.2	260.1	—	120.5	119.5	115.6	115.8	—
Pharmaceutical preparations .....	2834	204.6	204.4	206.6	205.7	—	98.9	98.0	93.3	93.3	—
Soap, cleaners, and toilet goods .....	284	155.1	155.7	155.8	156.8	—	96.2	96.2	96.0	97.3	—
Soap and other detergents .....	2841	40.4	40.3	40.1	39.9	—	22.4	22.4	21.5	21.5	—
Polishing, sanitation, and finishing preparations .....	2842,3	41.3	41.7	41.0	41.7	—	23.4	23.6	22.7	23.2	—
Toilet preparations .....	2844	73.4	73.7	74.7	75.2	—	50.4	50.2	51.8	52.6	—
Paints and allied products .....	285	52.8	53.1	54.4	53.7	—	28.2	28.3	29.1	28.7	—
Industrial organic chemicals .....	286	143.4	142.1	142.1	141.2	—	81.5	80.7	80.2	80.1	—
Cyclic crudes and intermediates .....	2865	24.8	25.5	25.7	25.7	—	15.0	15.4	15.5	15.5	—
Industrial organic chemicals, nec .....	2869	115.8	113.8	113.7	112.9	—	64.4	63.2	62.7	62.6	—
Agricultural chemicals .....	287	51.8	51.6	49.8	49.6	—	30.6	30.6	30.1	30.0	—
Miscellaneous chemical products .....	289	92.4	92.6	94.3	93.6	—	55.6	55.7	57.1	56.8	—
Petroleum and coal products .....	29	143.7	142.9	141.4	140.4	139.2	94.0	93.7	94.0	92.9	92.7
Petroleum refining .....	291	99.6	99.0	97.2	96.3	—	63.7	63.5	63.8	62.9	—
Asphalt paving and roofing materials .....	295	29.7	29.6	29.6	29.6	—	22.7	22.5	22.4	22.3	—
Rubber and misc. plastics products .....	30	985.7	987.9	991.9	994.6	995.7	765.1	766.8	768.9	771.9	772.8
Tires and inner tubes .....	301	79.4	78.8	77.3	77.2	—	57.7	57.3	57.5	57.2	—
Rubber and plastics footwear .....	302	6.6	6.6	6.3	7.7	—	5.4	5.4	4.7	6.2	—
Hose, belting, gaskets, and packing .....	305	67.9	68.2	70.4	70.3	—	52.0	52.0	53.9	53.8	—
Rubber and plastics hose and belting .....	3052	27.6	27.8	28.0	28.0	—	21.4	21.5	21.8	21.7	—
Fabricated rubber products, nec .....	306	113.9	114.3	114.4	114.5	—	87.6	88.0	87.3	87.6	—
Miscellaneous plastics products, nec .....	308	717.9	720.0	723.5	724.9	—	562.4	564.1	565.5	567.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	95.0	94.7	90.5	89.8	90.3	73.3	73.2	68.6	67.8	68.6
Leather tanning and finishing .....	311	12.7	12.8	12.3	12.6	—	10.6	10.5	10.2	10.2	—
Footwear, except rubber .....	314	44.3	43.8	41.1	40.5	—	35.5	35.3	32.9	32.3	—
Men's footwear, except athletic .....	3143	22.9	22.5	21.4	21.3	—	17.8	17.4	16.9	16.8	—
Women's footwear, except athletic .....	3144	12.7	12.6	11.4	10.9	—	10.2	10.2	8.9	8.3	—
Luggage .....	316	10.6	10.6	11.1	10.8	—	7.9	8.0	8.1	8.0	—
Handbags and personal leather goods .....	317	10.6	10.5	9.0	9.0	—	6.7	6.7	5.3	5.4	—
<b>Transportation and public utilities .....</b>		<b>6,334</b>	<b>6,338</b>	<b>6,274</b>	<b>6,504</b>	<b>6,532</b>	<b>5,338</b>	<b>5,347</b>	<b>5,211</b>	<b>5,470</b>	<b>5,489</b>
Transportation .....		4,103	4,115	4,018	4,257	4,285	—	—	—	—	—
Railroad transportation .....	40	231.7	232.0	227.3	227.9	229.6	—	—	—	—	—
Class I railroads plus Amtrak <sup>2</sup> .....	4011	205.9	206.5	201.6	202.1	—	—	—	—	—	—
Local and interurban passenger transit .....	41	457.8	463.9	397.9	475.5	481.9	419.1	424.5	358.2	433.5	—
Local and suburban transportation .....	411	221.4	221.4	227.2	230.2	—	200.7	200.5	206.2	209.0	—
Taxicabs .....	412	30.2	30.7	30.5	31.0	—	—	—	—	—	—
Intercity and rural bus transportation .....	413	26.7	26.5	27.3	28.0	—	24.3	24.1	24.7	25.4	—
School buses .....	415	145.4	150.4	79.9	151.1	—	—	—	—	—	—
Trucking and warehousing .....	42	1,672.1	1,673.2	1,726.1	1,730.2	1,733.1	1,459.0	1,458.8	1,514.3	1,518.8	—
Trucking and courier services, except air .....	421	1,512.0	1,509.1	1,559.5	1,560.1	—	1,324.7	1,321.1	1,375.3	1,376.3	—
Public warehousing and storage .....	422	155.4	159.4	162.1	165.4	—	130.1	133.5	135.0	138.3	—
Water transportation .....	44	177.5	173.3	186.6	180.2	179.9	—	—	—	—	—
Water transportation of freight, nec .....	444	14.3	14.3	14.7	14.7	—	—	—	—	—	—
Water transportation services .....	449	117.3	114.0	126.0	120.9	—	104.0	100.1	111.6	106.9	—
Transportation by air .....	45	1,128.6	1,135.6	1,024.2	1,189.9	1,204.1	—	—	—	—	—
Air transportation, scheduled .....	451	970.4	977.0	857.4	1,022.2	—	—	—	—	—	—
Air transportation, nonscheduled .....	4512	506.9	508.2	535.0	532.5	—	—	—	—	—	—
Airports, flying fields, and services .....	458	114	115	120	120	—	—	—	—	—	—
Pipelines, except natural gas .....	46	14.5	14.3	14.6	14.2	14.2	11.7	11.7	12.0	11.6	—
Transportation services .....	47	420.9	423.1	440.9	439.3	442.0	340.7	343.6	359.2	357.3	—
Passenger transportation arrangement .....	472	214.4	215.6	220.9	219.1	—	178.1	179.8	185.2	183.7	—
Travel agencies .....	4724	169.7	171.0	174.1	172.9	—	141.1	142.7	146.4	145.4	—
Freight transportation arrangement .....	473	161.1	161.3	169.3	169.5	—	125.1	125.5	131.4	131.2	—
<b>Communications and public utilities .....</b>		<b>2,231</b>	<b>2,223</b>	<b>2,256</b>	<b>2,247</b>	<b>2,247</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
Communications .....	48	1,350.5	1,345.9	1,384.3	1,381.0	1,385.0	1,063.0	1,061.9	1,067.5	1,059.6	—
Telephone communications .....	481	906.8	898.7	933.5	930.9	—	697.8	694.3	699.9	693.4	—
Telephone communications, except radio .....	4813	780.3	771.6	788.5	786.5	—	598.7	593.8	581.8	575.6	—
Radio and television broadcasting .....	483	244.8	246.5	248.3	249.9	—	204.7	205.7	206.4	207.8	—
Radio broadcasting stations .....	4832	115.2	116.5	118.1	119.4	—	—	—	—	—	—
Television broadcasting stations .....	4833	129.6	130.0	130.2	130.5	—	—	—	—	—	—
Cable and other pay television services .....	484	174.3	176.9	179.2	177.3	—	147.6	149.6	149.9	147.3	—
Electric, gas, and sanitary services .....	49	880.0	876.7	871.8	865.6	861.8	696.4	696.3	694.7	688.0	—
Electric services .....	491	383.2	381.1	379.5	376.3	—	303.0	302.3	303.8	300.4	—
Gas production and distribution .....	492	145.4	145.4	143.1	140.7	—	112.8	112.8	110.9	108.7	—
Combination utility services .....	493	162.6	162.7	159.9	159.5	—	125.4	127.3	124.4	123.8	—
Sanitary services .....	495	156.4	155.2	155.3	155.7	—	129.8	128.6	128.7	128.7	—
<b>Wholesale trade .....</b>		<b>6,527</b>	<b>6,556</b>	<b>6,710</b>	<b>6,701</b>	<b>6,731</b>	<b>5,280</b>	<b>5,304</b>	<b>5,410</b>	<b>5,397</b>	<b>5,411</b>
Durable goods .....	50	3,821	3,833	3,972	3,959	3,980	3,054	3,063	3,161	3,142	—
Motor vehicles, parts, and supplies .....	501	503.3	503.1	515.1	511.3	—	411.5	410.6	420.6	415.3	—
Automobiles and other motor vehicles .....	5012	136.8	137.4	144.7	143.3	—	—	—	—	—	—
Motor vehicle supplies and new parts .....	5013	290.5	289.6	293.0	290.3	—	—	—	—	—	—
Furniture and home furnishings .....	502	153.8	155.9	162.4	161.7	—	122.6	124.4	129.3	128.7	—
Furniture .....	5021	72.4	73.2	77.2	76.8	—	—	—	—	—	—
Home furnishings .....	5023	81.4	82.7	85.2	84.9	—	—	—	—	—	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Lumber and other construction materials .....	503	249.3	249.5	257.0	254.4	—	206.4	206.3	211.9	209.8	—
Lumber, plywood, and millwork .....	5031	125.9	126.1	129.8	128.8	—	—	—	—	—	—
Construction materials, nec .....	5039	38.8	38.7	39.0	38.5	—	—	—	—	—	—
Professional and commercial equipment .....	504	828.6	830.5	862.9	859.3	—	658.9	661.5	680.1	673.9	—
Office equipment .....	5044	193.5	193.9	204.8	204.4	—	—	—	—	—	—
Computers, peripherals and software .....	5045	319.9	321.5	335.4	333.0	—	—	—	—	—	—
Medical and hospital equipment .....	5047	175.3	176.4	181.4	180.9	—	143.3	144.4	147.1	146.1	—
Metals and minerals, except petroleum .....	505	144.2	144.1	145.8	145.6	—	116.6	116.3	117.8	117.6	—
Electrical goods .....	506	516.6	521.7	546.5	546.7	—	392.0	394.9	407.6	405.7	—
Electrical apparatus and equipment .....	5063	217.9	219.3	232.5	232.6	—	—	—	—	—	—
Electrical appliances, television and radio sets .....	5064	48.5	49.0	49.1	49.4	—	—	—	—	—	—
Electronic parts and equipment .....	5065	250.2	253.4	264.9	264.7	—	—	—	—	—	—
Hardware, plumbing, and heating equipment .....	507	296.2	296.9	305.3	304.5	—	239.9	240.7	248.0	247.9	—
Hardware .....	5072	105.2	105.5	106.7	106.6	—	—	—	—	—	—
Plumbing and hydronic heating supplies .....	5074	116.8	116.9	120.5	120.5	—	—	—	—	—	—
Machinery, equipment, and supplies .....	508	799.8	801.1	838.8	836.6	—	638.7	640.1	671.6	668.2	—
Construction and mining machinery .....	5082	83.8	84.2	89.2	89.9	—	—	—	—	—	—
Farm and garden machinery .....	5083	119.4	118.8	126.3	123.9	—	—	—	—	—	—
Industrial machinery and equipment .....	5084	323.0	324.1	340.4	339.8	—	—	—	—	—	—
Industrial supplies .....	5085	150.1	150.2	154.3	154.5	—	—	—	—	—	—
Misc. wholesale trade durable goods .....	509	329.4	329.9	338.0	338.7	—	267.1	268.6	274.5	274.9	—
Scrap and waste materials .....	5093	130.9	130.1	134.8	134.7	—	—	—	—	—	—
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,706</b>	<b>2,723</b>	<b>2,738</b>	<b>2,742</b>	<b>2,751</b>	<b>2,226</b>	<b>2,241</b>	<b>2,249</b>	<b>2,255</b>	<b>—</b>
Paper and paper products .....	511	260.7	260.9	263.4	262.9	—	218.6	218.7	221.9	221.1	—
Stationery and office supplies .....	5112	147.8	147.9	151.2	150.9	—	—	—	—	—	—
Drugs, proprietaries, and sundries .....	512	204.9	205.8	211.6	212.8	—	170.6	171.4	175.9	177.1	—
Apparel, piece goods, and notions .....	513	224.1	226.2	224.9	225.0	—	179.8	181.9	182.2	182.2	—
Groceries and related products .....	514	906.9	910.8	920.9	923.1	—	764.4	767.7	775.0	778.0	—
Groceries, general line .....	5141	281.6	282.5	290.0	290.0	—	—	—	—	—	—
Meats and meat products .....	5147	56.3	56.3	56.4	56.8	—	—	—	—	—	—
Fresh fruits and vegetables .....	5148	112.0	113.8	105.8	109.7	—	—	—	—	—	—
Farm-product raw materials .....	515	109.0	113.6	107.0	109.4	—	88.6	93.1	86.2	89.0	—
Chemicals and allied products .....	516	146.1	146.5	147.3	146.8	—	107.7	108.2	107.8	107.3	—
Petroleum and petroleum products .....	517	157.4	158.2	162.3	161.2	—	129.9	130.7	134.4	133.3	—
Petroleum bulk stations and terminals .....	5171	64.1	64.7	66.7	66.4	—	—	—	—	—	—
Petroleum products, nec .....	5172	93.3	93.5	95.6	94.8	—	—	—	—	—	—
Beer, wine, and distilled beverages .....	518	154.5	154.9	158.8	157.1	—	125.2	125.3	129.0	127.0	—
Beer and ale .....	5181	100.4	100.5	104.6	102.5	—	—	—	—	—	—
Wine and distilled beverages .....	5182	54.1	54.4	54.2	54.6	—	—	—	—	—	—
Misc. wholesale trade nondurable goods .....	519	542.4	546.4	541.6	544.1	—	440.7	444.0	436.6	439.6	—
Farm supplies .....	5191	165.5	168.0	172.5	172.3	—	—	—	—	—	—
<b>Retail trade .....</b>		<b>21,797</b>	<b>21,829</b>	<b>22,366</b>	<b>22,283</b>	<b>22,336</b>	<b>19,169</b>	<b>19,209</b>	<b>19,689</b>	<b>19,598</b>	<b>19,651</b>
Building materials and garden supplies .....	52	907.1	906.9	950.6	932.6	927.7	758.6	757.6	792.8	775.1	—
Lumber and other building materials .....	521	550.8	549.5	585.6	573.8	—	469.5	467.7	495.9	484.9	—
Paint, glass, and wallpaper stores .....	523	66.6	66.4	68.3	68.5	—	51.9	51.5	53.4	53.1	—
Hardware stores .....	525	163.6	165.1	165.2	163.2	—	134.4	136.0	136.1	133.9	—
Retail nurseries and garden stores .....	526	87.4	86.9	89.5	85.8	—	71.7	71.3	74.3	70.6	—
General merchandise stores .....	53	2,712.4	2,807.0	2,782.7	2,789.4	2,882.5	2,523.7	2,618.0	2,583.4	2,586.8	—
Department stores .....	531	2,381.7	2,465.3	2,438.6	2,446.5	2,535.2	2,238.6	2,323.1	2,287.9	2,292.9	—
Variety stores .....	533	136.4	142.6	140.3	139.3	—	117.2	122.7	118.9	118.1	—
Miscellaneous general merchandise stores .....	539	194.3	199.1	203.8	203.6	—	167.9	172.2	176.6	175.8	—
Food stores .....	54	3,446.2	3,463.6	3,522.2	3,502.4	3,519.8	3,120.6	3,137.1	3,191.8	3,179.2	—
Grocery stores .....	541	3,034.9	3,047.1	3,073.6	3,059.8	—	2,769.2	2,781.3	2,807.8	2,800.7	—
Meat and fish markets .....	542	47.8	48.5	48.9	49.2	—	—	—	—	—	—
Dairy products stores .....	545	15.1	14.6	18.7	17.6	—	—	—	—	—	—
Retail bakeries .....	546	197.5	199.4	209.1	208.7	—	173.7	175.6	182.1	182.5	—
Automotive dealers and service stations .....	55	2,305.2	2,300.8	2,352.1	2,345.6	2,344.0	1,928.3	1,925.1	1,966.4	1,956.8	—
New and used car dealers .....	551	1,044.8	1,046.5	1,061.9	1,062.2	1,064.2	875.0	876.8	890.9	890.8	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Retail trade—Continued</b>											
<b>Automotive dealers and service stations—Continued</b>											
Auto and home supply stores .....	553	390.6	391.0	406.0	405.9	—	312.8	312.7	321.4	318.8	—
Gasoline service stations .....	554	681.4	676.3	684.4	682.2	—	590.2	586.2	594.5	592.1	—
Automotive dealers, nec .....	559	9.3	9.2	10.4	10.2	—	7.6	7.6	8.6	8.4	—
Apparel and accessory stores .....	56	1,083.7	1,101.5	1,100.5	1,083.8	1,098.1	893.8	913.1	916.3	899.3	—
Men's and boys' clothing stores .....	561	79.3	79.7	75.7	74.6	—	63.3	63.8	59.6	58.5	—
Women's clothing stores .....	562	294.5	300.0	288.5	286.6	—	242.6	248.5	239.3	237.1	—
Family clothing stores .....	565	331.9	339.9	350.9	341.0	—	288.3	296.9	310.8	300.7	—
Shoe stores .....	566	200.6	202.1	202.8	200.8	—	156.3	159.0	160.0	158.6	—
Furniture and home furnishings stores .....	57	987.9	1,004.1	1,035.5	1,040.6	1,055.0	805.0	821.1	848.6	853.0	—
Furniture and home furnishings stores .....	571	516.9	523.3	535.4	537.8	—	419.3	424.9	435.6	437.7	—
Furniture stores .....	5712	305.8	309.0	317.7	320.0	—	—	—	—	—	—
Household appliance stores .....	572	71.5	72.4	70.3	69.4	—	57.8	58.8	57.0	56.1	—
Radio, television, and computer stores .....	573	399.5	408.4	429.8	433.4	—	327.9	337.4	356.0	359.2	—
Radio, television, and electronic stores .....	5731	180.5	186.1	194.2	194.4	—	149.8	155.8	161.5	161.1	—
Record and prerecorded tape stores .....	5735	81.6	82.6	81.5	82.8	—	64.5	66.1	66.5	68.3	—
Eating and drinking places .....	58	7,642.2	7,479.3	7,822.8	7,758.7	7,619.0	6,885.1	6,731.6	7,055.8	6,989.4	—
Miscellaneous retail establishments .....	59	2,711.8	2,765.4	2,799.8	2,829.5	2,889.4	2,254.1	2,305.1	2,333.8	2,358.7	—
Drug stores and proprietary stores .....	591	608.2	612.5	626.8	627.0	—	501.8	505.6	520.5	521.2	—
Liquor stores .....	592	111.4	113.4	113.3	113.6	—	—	—	—	—	—
Used merchandise stores .....	593	106.5	107.7	116.5	116.3	—	88.3	89.7	97.3	96.9	—
Miscellaneous shopping goods stores .....	594	962.2	983.9	993.2	1,010.8	—	803.3	824.7	831.4	845.8	—
Sporting goods and bicycle shops .....	5941	189.7	192.4	200.2	200.7	—	—	—	—	—	—
Book stores .....	5942	128.9	123.7	116.6	133.1	—	—	—	—	—	—
Stationery stores .....	5943	85.3	85.2	89.1	88.9	—	—	—	—	—	—
Jewelry stores .....	5944	136.1	139.5	144.1	144.7	—	—	—	—	—	—
Gift, novelty, and souvenir shops .....	5947	220.2	222.9	224.0	218.9	—	—	—	—	—	—
Sewing, needlework, and piece goods .....	5949	51.1	53.3	50.4	50.7	—	—	—	—	—	—
Nonstore retailers .....	596	336.5	353.1	337.1	350.9	—	284.9	301.1	284.7	297.6	—
Catalog and mail-order houses .....	5961	213.1	229.3	215.8	229.1	—	—	—	—	—	—
Merchandising machine operators .....	5962	68.8	68.5	66.1	66.4	—	—	—	—	—	—
Fuel dealers .....	598	96.8	100.1	98.0	98.5	—	80.1	83.2	80.7	81.2	—
Retail stores, nec .....	599	490.2	494.7	514.9	512.4	—	404.6	408.2	426.4	422.8	—
Florists, tobacco stores, and newsstands .....	5992,3,4	141.6	144.9	149.0	149.4	—	—	—	—	—	—
Optical goods stores .....	5995	68.8	69.2	72.3	72.8	—	56.9	57.3	60.6	60.9	—
Miscellaneous retail stores, nec .....	5999	279.8	280.6	293.6	290.2	—	226.8	227.0	239.3	235.6	—
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,936</b>	<b>6,922</b>	<b>7,152</b>	<b>7,089</b>	<b>7,090</b>	<b>5,060</b>	<b>5,048</b>	<b>5,240</b>	<b>5,173</b>	<b>5,170</b>
Finance .....		3,314	3,316	3,439	3,420	3,428	—	—	—	—	—
Depository institutions .....	60	2,022.0	2,021.0	2,064.7	2,044.9	2,045.9	1,456.3	1,455.0	1,487.7	1,468.2	—
Commercial banks .....	602	1,467.3	1,466.5	1,504.0	1,488.8	1,489.4	1,042.2	1,040.9	1,070.1	1,055.5	—
State commercial banks .....	6022	587.0	587.4	612.7	606.5	—	420.2	420.1	439.0	433.0	—
National and commercial banks, nec .....	6021,9	880.3	879.1	891.3	882.3	—	622.0	620.8	631.1	622.5	—
Savings institutions .....	603	258.4	257.5	253.5	250.1	249.7	—	—	—	—	—
Federal savings institutions .....	6035	146.1	145.9	143.4	141.4	—	—	—	—	—	—
Savings institutions, except federal .....	6036	112.3	111.6	110.1	108.7	—	—	—	—	—	—
Credit unions .....	606	164.6	165.5	172.6	172.1	—	130.9	131.6	136.8	136.4	—
Nondepository institutions .....	61	523.7	524.6	550.5	552.9	553.2	376.9	376.2	390.1	389.8	—
Personal credit institutions .....	614	162.0	163.1	167.2	168.5	—	114.2	114.7	115.1	113.2	—
Business credit institutions .....	615	105.8	106.2	115.5	115.8	—	—	—	—	—	—
Mortgage bankers and brokers .....	616	235.0	234.5	246.3	247.4	247.1	—	—	—	—	—
Security and commodity brokers .....	62	557.9	559.6	600.4	599.2	603.9	—	—	—	—	—
Security brokers and dealers .....	621	421.9	422.9	454.8	452.8	—	—	—	—	—	—
Commodity contracts brokers, dealers, and exchanges .....	622,3	24.4	24.3	25.3	25.6	—	—	—	—	—	—
Security and commodity services .....	628	111.6	112.4	120.3	120.8	—	73.6	73.9	80.2	80.1	—
Holding and other investment offices .....	67	209.9	210.8	223.0	223.2	224.7	—	—	—	—	—
Holding offices .....	671	107.1	106.9	111.6	111.4	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Finance, insurance, and real estate—Continued</b>											
Insurance .....	63,64	2,218	2,215	2,239	2,230	2,233	-	-	-	-	-
Insurance carriers .....	63	1,509.2	1,504.9	1,515.6	1,508.7	1,511.7	1,078.0	1,075.8	1,105.2	1,101.8	-
Life insurance .....	631	515.5	513.1	510.2	506.3	-	341.3	340.2	331.7	329.5	-
Medical service and health insurance .....	632	325.2	326.2	333.6	333.7	-	266.3	267.1	271.6	271.3	-
Hospital and medical service plans .....	6324	264.0	265.1	272.0	272.6	-	219.1	219.8	225.1	225.3	-
Fire, marine, and casualty insurance .....	633	532.3	530.7	531.4	528.4	-	361.1	360.2	388.8	388.1	-
Title insurance .....	636	69.4	68.8	71.3	71.1	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	708.7	710.0	723.5	720.9	720.9	-	-	-	-	-
Real estate .....	65	1,404	1,391	1,474	1,439	1,429	-	-	-	-	-
Real estate operators and lessors .....	651	584.0	580.7	601.9	586.5	-	-	-	-	-	-
Real estate agents and managers .....	653	668.1	661.1	714.3	697.0	-	-	-	-	-	-
Subdividers and developers .....	655	118.8	116.4	124.2	121.1	-	-	-	-	-	-
<b>Services .....</b>		<b>34,741</b>	<b>34,923</b>	<b>36,009</b>	<b>35,957</b>	<b>36,189</b>	<b>30,386</b>	<b>30,566</b>	<b>31,485</b>	<b>31,398</b>	<b>31,608</b>
Agricultural services .....	07	665.0	658.5	738.6	717.9	712.3	563.3	557.8	629.3	609.1	-
Veterinary services .....	074	174.8	174.4	186.3	182.9	-	146.3	146.1	157.1	153.5	-
Landscape and horticultural services .....	078	441.6	435.6	498.6	484.6	-	377.2	371.7	427.8	413.8	-
Hotels and other lodging places .....	70	1,772.1	1,726.7	1,892.3	1,801.1	1,759.1	-	-	-	-	-
Hotels and motels .....	701	1,715.7	1,675.6	1,807.3	1,746.1	-	1,510.7	1,472.5	1,599.6	1,538.1	-
Personal services .....	72	1,156.9	1,164.2	1,143.4	1,156.8	1,163.1	-	-	-	-	-
Laundry, cleaning, and garment services .....	721	434.5	437.1	436.5	438.2	-	382.9	384.5	383.9	385.3	-
Photographic studios, portrait .....	722	78.2	83.8	74.9	80.7	-	-	-	-	-	-
Beauty shops .....	723	401.5	401.9	400.0	405.3	-	356.9	357.0	355.1	359.3	-
Funeral service and crematories .....	726	96.0	95.3	97.6	97.7	-	-	-	-	-	-
Miscellaneous personal services .....	729	129.8	129.1	118.7	119.1	-	107.8	107.6	97.6	98.2	-
Business services .....	73	7,464.9	7,537.2	7,757.6	7,829.5	7,923.7	6,647.3	6,715.2	6,879.4	6,945.2	-
Advertising .....	731	243.4	244.7	254.2	252.1	-	177.3	177.9	184.6	183.7	-
Advertising agencies .....	7311	162.8	163.7	170.3	169.3	-	-	-	-	-	-
Credit reporting and collection .....	732	127.5	126.8	131.5	130.6	-	-	-	-	-	-
Mailing, reproduction, and stenographic services .....	733	301.4	305.5	315.8	318.7	-	-	-	-	-	-
Photocopying and duplicating services .....	7334	74.3	75.0	78.3	79.3	-	62.2	63.1	66.3	67.2	-
Services to buildings .....	734	899.7	900.1	903.3	906.3	905.2	807.4	807.4	806.8	809.6	-
Disinfecting and pest control services .....	7342	86.8	85.9	88.7	87.9	-	69.6	68.7	71.4	70.4	-
Building maintenance services, nec .....	7349	812.9	814.2	814.6	818.4	-	737.8	738.7	735.4	739.2	-
Miscellaneous equipment rental and leasing .....	735	243.3	241.8	254.8	252.3	-	196.7	194.8	205.2	202.9	-
Medical equipment rental .....	7352	37.8	38.2	40.9	40.5	-	29.9	29.9	31.2	30.7	-
Heavy construction equipment rental .....	7353	44.4	44.6	44.2	44.3	-	37.8	38.1	37.6	37.6	-
Equipment rental and leasing, nec .....	7359	161.1	159.0	169.7	167.5	-	129.0	126.8	136.4	134.6	-
Personnel supply services .....	736	2,822.6	2,853.3	2,809.6	2,862.4	2,917.9	-	-	-	-	-
Employment agencies .....	7361	315.0	318.9	340.6	342.6	-	-	-	-	-	-
Help supply services .....	7363	2,507.6	2,534.4	2,469.0	2,519.8	2,570.2	2,440.4	2,468.1	2,400.0	2,449.2	-
Computer and data processing services .....	737	1,222.2	1,232.5	1,359.5	1,368.4	1,386.8	972.2	982.0	1,084.1	1,090.4	-
Computer programming services .....	7371	275.9	279.0	314.4	315.5	-	229.2	232.7	267.1	267.9	-
Prepackaged software .....	7372	202.0	203.9	224.5	228.3	-	-	-	-	-	-
Computer integrated systems design .....	7373	144.2	145.2	160.1	160.7	-	102.4	103.1	113.6	114.1	-
Data processing and preparation .....	7374	230.1	232.9	252.2	253.1	-	-	-	-	-	-
Information retrieval services .....	7375	69.6	70.3	76.3	76.3	-	51.8	51.9	55.3	54.9	-
Computer maintenance and repair .....	7378	53.2	53.2	55.4	55.6	-	38.9	38.7	38.3	38.1	-
Miscellaneous business services .....	738	1,604.8	1,632.5	1,728.9	1,738.7	-	1,399.1	1,423.4	1,505.1	1,511.5	-
Detective and armored car services .....	7381	551.0	549.1	578.2	583.4	-	512.2	509.6	535.2	539.2	-
Security systems services .....	7382	53.0	53.6	57.5	57.0	-	44.9	45.4	49.3	48.5	-
Photofinishing laboratories .....	7384	76.3	76.8	77.2	79.5	-	-	-	-	-	-
Auto repair, services, and parking .....	75	1,099.3	1,104.4	1,146.9	1,147.0	1,152.2	905.8	909.3	944.0	942.9	-
Automotive rentals, without drivers .....	751	199.7	200.0	212.3	211.4	-	165.4	165.5	174.7	173.9	-
Passenger car rental .....	7514	128.9	129.5	141.1	140.7	-	108.5	109.0	117.8	117.1	-
Automobile parking .....	752	68.1	68.7	69.8	70.0	-	60.0	60.3	61.2	61.2	-
Automotive repair shops .....	753	610.9	612.5	629.9	627.5	-	492.0	493.0	507.1	503.5	-
Automotive and tire repair shops .....	7532,4	211.6	212.7	218.6	217.8	-	173.7	174.6	179.5	178.6	-
General automotive repair shops .....	7538	256.8	257.7	265.2	264.7	-	206.4	206.9	213.2	211.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Services—Continued</b>											
Auto repair, services, and parking—Continued											
Automotive services, except repair .....	754	220.6	223.2	234.9	238.1	—	188.4	190.5	201.0	204.3	—
Carwashes .....	7542	118.7	120.8	124.0	126.6	—	104.0	106.1	109.2	112.2	—
Miscellaneous repair services .....	76	378.7	378.1	391.8	390.1	390.0	310.3	308.7	320.2	318.2	—
Electrical repair shops .....	762	115.8	115.0	120.0	119.3	—	—	—	—	—	—
Motion pictures .....	78	520.6	517.7	560.0	542.5	542.8	433.9	431.7	475.9	452.9	—
Motion picture production and services .....	781	226.5	228.9	245.5	242.5	—	189.5	191.9	211.5	203.0	—
Motion picture theaters .....	783	115.4	110.9	129.9	116.0	—	—	—	—	—	—
Video tape rental .....	784	155.3	153.0	162.1	161.7	—	126.3	125.0	130.8	130.6	—
Amusement and recreation services .....	79	1,537.4	1,427.3	1,827.2	1,641.7	1,517.4	1,345.1	1,242.3	1,629.3	1,439.0	—
Bowling centers .....	793	83.2	83.4	67.9	78.6	—	74.9	75.2	59.6	69.4	—
Misc. amusement and recreation services .....	799	1,147.2	1,050.9	1,409.6	1,239.0	—	1,006.2	914.4	1,263.2	1,089.1	—
Physical fitness facilities .....	7991	154.9	156.9	167.6	166.6	—	137.8	139.8	149.4	147.8	—
Membership sports and recreation clubs .....	7997	344.9	323.3	452.4	382.2	—	303.4	282.4	406.5	337.5	—
Health services .....	80	9,503.8	9,529.8	9,734.4	9,719.9	9,757.9	8,424.8	8,455.5	8,627.7	8,607.1	—
Offices and clinics of medical doctors .....	801	1,691.5	1,694.4	1,753.4	1,752.5	1,763.5	1,387.0	1,391.8	1,439.3	1,435.5	—
Offices and clinics of dentists .....	802	611.7	613.4	625.6	623.6	—	535.9	538.5	546.5	544.9	—
Offices and clinics of other health practitioners .....	804	415.9	420.5	432.6	433.2	—	344.6	350.0	361.5	360.3	—
Offices and clinics of chiropractors and optometrists .....	8041,2	162.0	163.5	168.4	167.6	—	—	—	—	—	—
Nursing and personal care facilities .....	805	1,740.1	1,743.7	1,771.8	1,764.1	1,765.4	1,566.1	1,569.5	1,593.6	1,585.0	—
Skilled nursing care facilities .....	8051	1,295.1	1,298.8	1,319.2	1,314.9	—	—	—	—	—	—
Intermediate care facilities .....	8052	211.7	212.0	214.3	213.0	—	190.9	191.3	192.3	190.9	—
Nursing and personal care, nec .....	8059	233.3	232.9	238.3	236.2	—	—	—	—	—	—
Hospitals .....	806	3,817.4	3,826.1	3,889.3	3,885.2	3,896.5	3,495.8	3,505.4	3,564.8	3,560.1	—
General medical and surgical hospitals .....	8062	3,521.5	3,529.7	3,589.0	3,585.5	—	—	—	—	—	—
Psychiatric hospitals .....	8063	86.6	87.1	85.7	84.8	—	—	—	—	—	—
Specialty hospitals, excluding psychiatric .....	8069	209.3	209.3	214.6	214.9	—	—	—	—	—	—
Medical and dental laboratories .....	807	198.3	199.0	207.9	206.0	—	—	—	—	—	—
Home health care services .....	808	669.2	671.5	683.8	687.2	692.8	619.0	622.0	629.5	632.3	—
Legal services .....	81	925.7	931.5	964.6	954.3	959.5	736.7	741.3	771.6	760.4	—
Educational services .....	82	1,979.0	2,168.4	1,800.4	2,049.5	2,243.6	—	—	—	—	—
Elementary and secondary schools .....	821	589.7	607.6	550.4	602.4	—	—	—	—	—	—
Colleges and universities .....	822	1,148.1	1,313.5	981.9	1,185.1	—	—	—	—	—	—
Vocational schools .....	824	79.8	81.9	83.6	85.3	—	—	—	—	—	—
Social services .....	83	2,401.7	2,428.1	2,455.9	2,488.2	2,516.8	2,087.4	2,110.2	2,134.3	2,160.6	—
Individual and family services .....	832	646.8	651.0	671.3	666.2	—	562.6	565.5	582.1	577.2	—
Job training and related services .....	833	308.2	310.4	328.9	321.4	—	264.0	266.0	284.7	276.0	—
Child day care services .....	835	574.5	592.3	547.3	595.0	610.2	507.9	525.1	480.8	525.8	—
Residential care .....	836	674.5	676.2	709.2	704.1	708.4	583.9	585.2	616.2	610.8	—
Social services, nec .....	839	197.7	198.2	199.2	201.5	—	169.0	168.4	170.5	170.8	—
Museums and botanical and zoological gardens .....	84	86.3	86.5	94.6	89.9	90.3	—	—	—	—	—
Membership organizations .....	86	2,171.0	2,179.0	2,244.3	2,186.5	2,198.1	—	—	—	—	—
Business associations .....	861	107.6	106.4	109.6	109.2	—	—	—	—	—	—
Professional organizations .....	862	58.4	58.8	59.1	59.2	—	41.6	42.1	42.5	42.8	—
Labor organizations .....	863	144.3	144.9	138.7	141.8	—	—	—	—	—	—
Civic and social associations .....	864	420.3	427.9	491.0	438.7	—	—	—	—	—	—
Engineering and management services .....	87	2,862.9	2,870.7	3,040.3	3,026.0	3,044.8	2,191.9	2,194.7	2,330.1	2,313.3	—
Engineering and architectural services .....	871	849.9	850.5	895.5	888.5	893.0	698.8	697.7	737.5	730.6	—
Engineering services .....	8711	653.6	654.3	685.1	680.9	—	542.6	542.2	570.4	566.2	—
Architectural services .....	8712	139.9	139.7	150.4	148.9	—	109.6	109.2	117.9	116.6	—
Surveying services .....	8713	56.4	56.5	60.0	58.7	—	46.6	46.3	49.2	47.8	—
Accounting, auditing, and bookkeeping .....	872	556.5	562.1	589.0	595.0	—	393.7	398.8	413.9	417.8	—

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>				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Services—Continued</b>											
Engineering and management services—Continued											
Research and testing services .....	873	568.1	565.3	582.8	575.5	—	436.4	431.3	445.7	440.1	—
Commercial physical research .....	8731	217.2	210.6	214.1	212.9	—	154.2	145.9	148.8	147.3	—
Commercial nonphysical research .....	8732	122.4	125.6	132.5	130.6	—	100.6	103.7	109.4	108.3	—
Noncommercial research organizations .....	8733	137.9	138.6	146.0	143.0	—	107.4	107.8	114.1	112.2	—
Management and public relations .....	874	888.4	892.8	973.0	967.0	976.2	663.0	666.9	733.0	724.8	—
Management services .....	8741	308.5	311.3	334.6	330.5	—	224.1	227.6	248.7	243.4	—
Management consulting services .....	8742	310.2	312.8	347.1	346.9	—	234.7	236.3	263.3	262.5	—
Public relations services .....	8743	36.2	36.3	40.8	40.4	—	23.4	23.4	27.2	26.8	—
Services, nec .....	89	47.9	46.8	49.2	48.7	49.6	38.3	37.3	39.0	38.5	—
<b>Government</b> .....		19,267	19,773	18,501	19,495	20,031	—	—	—	—	—
Federal Government <sup>4</sup> .....		2,739	2,716	2,705	2,689	2,669	—	—	—	—	—
Executive, by agency <sup>4</sup> .....		2,678.0	2,655.4	2,643.8	—	—	—	—	—	—	—
Department of Defense .....		733.7	718.6	699.4	—	—	—	—	—	—	—
Postal Service <sup>5</sup> .....		848.3	848.9	853.3	—	—	—	—	—	—	—
Other executive agencies .....		1,096.0	1,087.9	1,091.1	—	—	—	—	—	—	—
Legislative .....		31.5	31.3	31.3	—	—	—	—	—	—	—
Judicial .....		29.2	29.0	29.9	—	—	—	—	—	—	—
Federal Government, except Postal Service .....		1,890.4	1,866.8	1,851.7	1,839.3	1,818.6	—	—	—	—	—
Federal Government, by industry:											
Manufacturing activities .....		51.8	51.4	47.7	47.2	—	—	—	—	—	—
Ship building and repairing .....	3731	22.9	22.8	21.8	21.7	—	—	—	—	—	—
Transportation and public utilities, except Postal Service .....		23.0	22.3	21.1	21.0	—	—	—	—	—	—
Services .....		371.7	366.6	361.2	360.3	—	—	—	—	—	—
Hospitals .....	806	229.0	227.9	221.1	220.7	—	—	—	—	—	—
State government .....		4,577	4,733	4,411	4,613	4,785	—	—	—	—	—
Hospitals .....	806	372.1	371.4	370.9	371.5	—	—	—	—	—	—
Education .....	82	1,873.9	2,050.5	1,674.6	1,906.4	2,087.6	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		1,834.3	1,818.8	1,857.1	1,836.8	—	—	—	—	—	—
State government, except education .....		2,703.3	2,682.8	2,736.0	2,706.8	2,697.5	—	—	—	—	—
Local government .....		11,951	12,324	11,385	12,193	12,577	—	—	—	—	—
Transportation and public utilities .....		453.3	451.3	455.2	452.5	—	—	—	—	—	—
Hospitals .....	806	662.1	664.0	679.1	679.4	—	—	—	—	—	—
Education .....	82	6,621.1	7,052.0	5,763.1	6,794.0	7,223.9	—	—	—	—	—
General administration, including executive, legislative, and judicial functions .....		3,728.0	3,681.6	3,944.9	3,757.9	—	—	—	—	—	—
Local government, except education .....		5,329.6	5,272.2	5,622.2	5,398.7	5,353.5	—	—	—	—	—

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

<sup>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 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	July 1996	Aug. 1996	June 1997	July 1997	Aug. 1997
<b>Total</b> .....	57,060	57,210	59,367	58,445	58,506
<b>Total private</b> .....	47,229	47,421	48,449	48,403	48,497
<b>Goods-producing</b> .....	6,599	6,677	6,681	6,630	6,712
<b>Mining</b> .....	81	79	80	81	80
<b>Construction</b> .....	621	622	637	646	646
<b>Manufacturing</b> .....	5,897	5,976	5,964	5,903	5,986
<b>Durable goods</b> .....	2,815	2,843	2,897	2,866	2,900
Lumber and wood products .....	135	136	140	140	141
Furniture and fixtures .....	154	157	161	157	159
Stone, clay, and glass products .....	101	103	102	101	102
Primary metal industries .....	100	102	104	102	104
Fabricated metal products .....	315	319	327	321	327
Industrial machinery and equipment .....	455	455	476	473	475
Electronic and other electrical equipment .....	680	682	682	678	681
Transportation equipment .....	358	366	385	378	391
Instruments and related products .....	348	350	349	348	348
Miscellaneous manufacturing .....	168	173	172	168	172
<b>Nondurable goods</b> .....	3,082	3,133	3,067	3,037	3,086
Food and kindred products .....	565	592	551	568	590
Tobacco products .....	11	13	11	11	13
Textile mill products .....	287	291	287	283	284
Apparel and other textile products .....	627	636	609	583	600
Paper and allied products .....	166	166	166	165	166
Printing and publishing .....	693	694	700	699	696
Chemicals and allied products .....	329	329	329	327	327
Petroleum and coal products .....	25	25	25	25	25
Rubber and misc. plastics products .....	329	335	340	330	337
Leather and leather products .....	50	53	49	46	48
<b>Service-producing</b> .....	50,461	50,533	52,686	51,815	51,794
<b>Transportation and public utilities</b> .....	1,893	1,894	1,946	1,915	1,868
<b>Wholesale trade</b> .....	1,998	2,004	2,055	2,055	2,055
<b>Retail trade</b> .....	11,428	11,486	11,709	11,699	11,755
<b>Finance, insurance, and real estate</b> .....	4,398	4,400	4,467	4,485	4,492
<b>Services</b> .....	20,913	20,960	21,591	21,619	21,615
<b>Government</b> .....	9,831	9,789	10,918	10,042	10,009
Federal .....	1,171	1,165	1,154	1,151	1,149
State .....	2,200	2,200	2,292	2,252	2,248
Local .....	6,460	6,424	7,472	6,639	6,612

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

introduced, all unadjusted data from April 1996 forward are subject to revision.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Alabama</b> .....	1,828.5	1,835.6	1,843.9	10.6	10.1	10.1	96.3	100.1	99.7
Birmingham .....	449.9	455.2	456.2	3.4	3.3	3.4	26.2	28.3	28.3
Huntsville .....	168.4	170.3	171.6	(1)	(1)	(1)	6.0	6.1	6.0
Mobile .....	214.8	220.1	219.8	(1)	(1)	(1)	16.0	16.9	16.9
Montgomery .....	154.3	154.6	155.1	(1)	(1)	(1)	9.0	9.2	9.0
Tuscaloosa .....	75.0	75.3	77.1	2.7	2.7	2.7	5.1	5.9	6.0
<b>Alaska</b> .....	275.5	284.8	278.6	10.4	10.3	10.3	15.4	16.0	15.5
Anchorage .....	124.5	127.4	126.7	2.5	2.4	2.4	7.8	8.4	8.1
<b>Arizona</b> .....	1,919.0	1,947.5	1,992.0	14.5	15.2	15.1	128.7	134.7	134.2
Phoenix-Mesa .....	1,325.9	1,368.3	1,401.7	6.7	8.2	8.1	91.7	97.5	97.1
Tucson .....	309.3	306.8	314.6	2.3	2.4	2.3	19.4	19.4	19.3
<b>Arkansas</b> .....	1,099.5	1,092.4	1,108.9	3.6	3.5	3.5	50.4	52.0	52.2
Fayetteville-Springdale-Rogers .....	137.2	136.3	138.7	(1)	(1)	(1)	8.1	6.2	6.2
Fort Smith .....	95.5	93.6	93.8	.9	.9	.9	3.7	3.7	3.7
Little Rock-North Little Rock .....	299.7	296.2	299.7	(1)	(1)	(1)	14.8	14.8	14.9
Pine Bluff .....	36.1	35.2	35.9	(1)	(1)	(1)	1.2	1.0	1.0
<b>California</b> .....	12,901.9	13,111.6	13,231.5	29.5	29.6	29.6	541.9	585.4	587.9
Bakersfield .....	175.8	176.6	179.8	10.8	11.1	11.1	8.7	9.5	9.5
Fresno .....	275.8	277.7	278.1	.5	.5	.5	13.4	13.9	13.5
Los Angeles-Long Beach .....	3,826.3	3,846.3	3,887.4	5.7	5.9	5.9	112.1	110.5	111.1
Modesto .....	134.0	139.0	137.0	(2)	(2)	(2)	6.7	6.6	6.6
Oakland .....	923.9	928.8	939.1	2.2	2.1	2.1	49.4	51.4	52.9
Orange County .....	1,189.1	1,212.9	1,224.5	.8	.9	.9	55.0	57.0	57.5
Riverside-San Bernardino .....	810.5	825.4	835.4	1.2	1.3	1.3	49.5	52.3	52.9
Sacramento .....	610.7	622.4	621.9	.2	.2	.2	32.1	34.4	34.3
Salinas .....	114.6	118.5	119.0	.1	.1	.1	4.3	4.6	4.6
San Diego .....	999.7	1,018.3	1,023.7	.3	.3	.3	46.0	50.8	51.3
San Francisco .....	960.8	972.3	977.6	.6	.6	.6	33.0	36.2	36.5
San Jose .....	882.9	921.4	918.0	.1	.1	.1	34.6	38.0	38.1
Santa Barbara-Santa Maria-Lompoc .....	146.3	149.4	148.9	1.1	1.1	1.1	6.1	6.4	6.6
Santa Rosa .....	160.7	159.9	163.4	.5	.5	.5	9.0	9.5	9.4
Stockton-Lodi .....	170.2	172.1	174.3	.1	.1	.1	7.4	8.0	8.1
Vallejo-Fairfield-Napa .....	146.0	147.0	148.5	.5	.5	.5	9.1	9.2	9.1
Ventura .....	239.3	243.5	244.2	1.7	1.4	1.4	11.0	11.5	11.5
<b>Colorado</b> .....	1,910.7	1,936.2	1,947.1	13.4	13.5	13.5	116.8	122.3	121.9
Boulder-Longmont .....	153.0	152.8	155.7	(1)	(1)	(1)	6.7	6.2	6.1
Colorado Springs .....	207.6	212.8	214.6	(1)	(1)	(1)	12.6	13.0	13.2
Denver .....	1,015.6	1,026.9	1,035.6	6.6	6.2	6.2	59.5	62.1	62.5
<b>Connecticut</b> .....	1,597.2	1,608.0	1,629.1	.8	.9	.8	56.0	60.5	59.8
Bridgeport .....	180.5	179.8	181.3	(2)	(2)	(2)	5.8	5.8	5.9
Danbury .....	83.3	83.6	84.3	(1)	(1)	(1)	3.1	3.2	3.2
Hartford .....	588.0	580.5	596.5	(1)	(1)	(1)	20.5	20.0	19.8
New Haven-Meriden .....	245.8	244.4	248.3	(1)	(1)	(1)	9.2	10.1	10.0
New London-Norwich .....	132.9	139.3	138.5	(1)	(1)	(1)	4.1	4.5	4.5
Stamford-Norwalk .....	197.3	200.5	200.2	(1)	(1)	(1)	6.0	6.3	6.2
Waterbury .....	84.5	86.2	87.6	(2)	(2)	(2)	3.1	3.6	3.5
<b>Delaware</b> .....	379.9	392.8	393.6	.1	.1	.1	21.9	23.8	23.7
Dover .....	52.3	53.3	53.3	.1	.1	.1	2.5	2.5	2.4
Wilmington-Newark .....	290.5	298.1	299.3	.2	.3	.3	16.9	17.8	17.7
<b>District of Columbia</b> .....	620.6	609.4	612.7	.1	.1	.1	8.7	8.7	8.5
Washington PMSA .....	2,433.1	2,453.8	2,476.6	.9	.9	.9	122.5	127.6	127.3
<b>Florida</b> .....	6,189.2	6,305.0	6,417.7	6.9	7.3	7.2	325.8	337.2	339.0
Daytona Beach .....	148.5	149.4	152.6	(2)	(2)	(2)	7.3	7.5	7.4
Fort Lauderdale .....	606.4	619.8	630.1	.1	.1	.1	33.8	36.2	36.6
Fort Myers-Cape Coral .....	147.1	147.3	150.1	(2)	(2)	(2)	12.4	12.6	12.7
Gainesville .....	111.0	111.1	114.4	(2)	(2)	(2)	4.3	3.9	3.8
Jacksonville .....	498.1	510.1	518.8	(2)	(2)	(2)	27.2	27.3	27.4
Lakeland-Winter Haven .....	165.0	167.7	171.5	3.1	3.1	3.1	8.7	8.7	9.2
Melbourne-Titusville-Palm Bay .....	169.3	173.9	173.6	(2)	(2)	(2)	9.3	9.0	9.0
Miami .....	942.3	950.0	960.5	.4	.4	.4	34.0	33.5	33.5
Orlando .....	756.9	785.8	799.9	(2)	(2)	(2)	40.5	42.4	42.4
Pensacola .....	147.1	149.1	152.4	(2)	(2)	(2)	10.4	10.8	10.8
Sarasota-Bradenton .....	224.4	236.2	240.7	(2)	(2)	(2)	12.4	14.1	14.7
Tallahassee .....	146.0	146.1	148.7	(2)	(2)	(2)	6.3	6.4	6.3
Tampa-St. Petersburg-Clearwater .....	1,024.1	1,049.5	1,066.3	.4	.4	.4	49.4	51.3	51.0
West Palm Beach-Boca Raton .....	414.0	422.8	432.0	(2)	(2)	(2)	24.7	26.0	26.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Alabama</b> .....	382.2	379.1	377.2	90.4	88.9	91.1	421.5	423.8	423.4
Birmingham .....	51.2	51.0	50.7	30.0	29.4	30.0	110.3	110.5	110.5
Huntsville .....	39.0	39.5	40.1	3.5	3.4	3.5	33.3	33.6	33.5
Mobile .....	27.3	27.5	27.5	13.0	13.3	13.3	57.3	60.1	59.4
Montgomery .....	17.4	17.6	17.7	6.4	6.0	6.5	37.0	37.6	37.3
Tuscaloosa .....	10.7	10.8	10.8	2.5	2.5	2.6	17.2	17.1	17.3
<b>Alaska</b> .....	17.4	21.3	17.1	24.2	25.4	25.3	57.3	59.9	57.8
Anchorage .....	2.1	2.1	2.0	12.2	12.9	12.8	30.4	31.1	30.7
<b>Arizona</b> .....	201.1	207.9	209.1	93.6	93.5	97.1	464.3	480.8	484.4
Phoenix-Mesa .....	154.3	161.1	162.2	67.5	68.1	70.8	321.5	340.3	344.4
Tucson .....	29.0	29.7	29.8	13.3	13.2	13.5	65.8	68.3	68.4
<b>Arkansas</b> .....	253.4	251.6	252.1	65.4	64.3	66.1	250.4	252.4	251.7
Fayetteville-Springdale-Rogers .....	34.0	33.5	34.0	9.3	9.4	9.4	37.9	38.2	38.4
Fort Smith .....	27.8	27.1	26.7	6.4	6.4	6.5	19.7	19.8	19.7
Little Rock-North Little Rock .....	33.9	33.2	33.0	20.7	19.9	20.5	69.8	69.8	69.7
Pine Bluff .....	8.2	7.9	8.1	1.8	1.7	1.8	7.5	7.3	7.2
<b>California</b> .....	1,889.9	1,928.2	1,926.8	651.7	641.3	669.3	2,992.4	3,026.5	3,033.8
Bakersfield .....	10.0	10.1	10.0	9.3	9.3	9.4	42.7	43.3	43.4
Fresno .....	32.9	33.8	32.7	14.2	14.6	14.7	66.3	66.7	66.4
Los Angeles-Long Beach .....	649.4	658.0	660.8	206.8	201.7	210.1	843.7	847.3	849.8
Modesto .....	31.5	35.0	32.6	6.1	6.0	6.2	32.4	32.8	32.8
Oakland .....	115.4	117.4	117.7	59.7	58.8	61.8	209.4	211.7	211.0
Orange County .....	213.4	219.7	220.3	42.5	42.6	44.7	296.6	303.8	304.1
Riverside-San Bernardino .....	101.0	103.5	104.0	42.9	41.1	43.9	209.2	215.8	216.7
Sacramento .....	44.0	45.8	45.3	25.6	25.2	26.0	134.1	135.8	135.8
Salinas .....	9.7	9.1	9.2	5.4	5.5	5.5	30.5	31.8	31.8
San Diego .....	116.3	119.9	119.4	38.6	37.3	38.3	234.9	238.2	238.4
San Francisco .....	76.3	77.0	76.8	76.2	75.5	77.6	200.6	200.4	201.4
San Jose .....	249.5	260.0	258.7	25.3	25.6	26.3	174.3	180.6	180.5
Santa Barbara-Santa Maria-Lompoc .....	16.4	17.0	17.0	5.4	5.5	5.5	35.2	36.2	35.8
Santa Rosa .....	24.5	25.0	25.3	6.1	5.8	6.2	41.0	41.8	41.8
Stockton-Lodi .....	27.3	28.6	27.8	12.4	12.6	12.7	40.0	39.7	40.0
Vallejo-Fairfield-Napa .....	18.2	18.7	19.0	6.0	6.1	6.3	38.4	38.2	38.1
Ventura .....	30.2	31.4	31.4	9.5	9.8	10.0	59.3	59.8	59.6
<b>Colorado</b> .....	198.8	200.1	200.9	120.2	113.1	115.5	467.4	478.3	475.1
Boulder-Longmont .....	29.9	30.5	30.6	3.6	3.5	3.7	35.0	34.6	34.9
Colorado Springs .....	24.9	25.8	26.2	11.5	11.3	11.7	47.3	48.4	48.2
Denver .....	89.6	91.1	91.2	84.2	78.8	80.6	247.4	253.5	251.9
<b>Connecticut</b> .....	275.6	273.5	275.0	73.8	71.6	75.9	348.4	356.0	356.8
Bridgeport .....	39.9	39.9	40.0	7.3	7.4	7.3	40.7	40.7	41.0
Danbury .....	19.0	18.7	18.8	2.8	2.8	2.9	22.0	22.1	21.8
Hartford .....	91.0	91.9	92.7	26.0	25.0	28.3	122.7	120.6	123.8
New Haven-Meriden .....	39.3	37.2	37.8	16.2	16.0	16.2	50.8	53.4	53.4
New London-Norwich .....	25.8	24.1	24.0	6.3	6.4	6.5	28.8	30.0	29.4
Stamford-Norwalk .....	28.1	28.1	28.1	10.0	9.5	9.5	44.1	44.8	44.8
Waterbury .....	18.3	18.6	18.8	3.4	3.4	3.5	17.1	17.5	18.6
<b>Delaware</b> .....	56.4	59.2	59.8	15.8	15.6	16.3	85.7	88.3	87.5
Dover .....	6.6	6.6	6.7	1.7	1.6	1.7	13.4	13.1	13.0
Wilmington-Newark .....	40.5	43.1	43.7	13.7	13.7	13.9	60.2	61.2	61.1
<b>District of Columbia</b> .....	13.0	13.6	13.7	18.8	18.5	18.4	49.8	48.6	49.2
Washington PMSA .....	96.6	98.9	99.1	111.7	109.9	112.9	468.8	476.8	476.2
<b>Florida</b> .....	491.2	490.6	492.2	314.1	315.9	324.0	1,593.1	1,642.7	1,648.7
Daytona Beach .....	14.0	14.2	14.2	3.5	3.1	3.2	42.7	44.2	44.1
Fort Lauderdale .....	43.5	43.4	43.6	30.6	31.5	32.3	168.3	173.2	173.9
Fort Myers-Cape Coral .....	6.8	6.9	7.1	6.4	6.2	6.3	41.2	42.2	42.3
Gainesville .....	5.5	5.6	5.6	2.3	2.3	2.3	24.7	25.4	26.5
Jacksonville .....	36.7	37.9	37.5	35.1	34.9	36.6	124.0	129.0	128.8
Lakeland-Winter Haven .....	21.1	21.1	21.2	8.9	8.6	8.5	45.9	47.4	47.7
Melbourne-Titusville-Palm Bay .....	26.0	26.3	26.4	4.6	4.7	4.9	40.6	42.2	42.1
Miami .....	77.6	76.6	76.4	80.0	81.6	83.0	246.6	248.2	248.9
Orlando .....	51.7	52.7	52.8	39.5	39.4	40.6	186.8	194.6	195.4
Pensacola .....	11.5	11.6	11.6	6.6	6.6	6.6	37.6	39.9	39.8
Sarasota-Bradenton .....	20.2	20.5	20.7	5.2	5.1	5.1	56.1	58.9	59.4
Tallahassee .....	5.2	5.3	5.2	3.9	3.8	3.9	30.4	30.5	30.7
Tampa-St. Petersburg-Clearwater .....	87.3	87.6	88.4	44.9	45.0	45.9	255.4	263.1	265.0
West Palm Beach-Boca Raton .....	29.1	29.4	29.6	15.8	16.0	16.2	105.9	109.0	110.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Alabama</b> .....	82.0	84.8	84.4	411.1	419.5	420.8	334.4	329.3	337.2
Birmingham .....	33.1	34.5	34.4	129.4	131.8	132.1	66.3	66.4	66.8
Huntsville .....	4.6	4.8	4.7	43.9	46.2	46.4	38.1	36.7	37.4
Mobile .....	9.7	9.7	9.6	58.6	59.8	59.6	32.9	32.8	33.5
Montgomery .....	9.0	9.3	9.4	40.1	40.5	41.0	35.4	34.4	34.2
Tuscaloosa .....	2.4	2.5	2.5	13.0	13.5	13.6	21.4	20.3	21.6
<b>Alaska</b> .....	11.9	12.3	12.1	65.1	69.1	67.2	73.8	70.5	73.3
Anchorage .....	7.2	7.3	7.1	34.5	35.9	35.5	27.8	27.3	28.1
<b>Arizona</b> .....	116.5	124.3	124.4	571.5	590.6	597.3	328.8	300.5	330.4
Phoenix-Mesa .....	96.9	103.9	104.7	410.1	427.6	431.8	177.2	161.6	182.6
Tucson .....	12.1	12.7	12.8	98.5	98.2	100.2	68.9	62.9	68.3
<b>Arkansas</b> .....	43.6	44.3	44.1	251.3	253.9	255.8	181.4	170.4	183.4
Fayetteville-Springdale-Rogers .....	4.9	4.7	4.7	26.5	26.7	27.0	18.5	17.6	19.0
Fort Smith .....	3.1	3.1	3.1	24.0	23.6	23.4	9.9	9.0	9.8
Little Rock-North Little Rock .....	17.2	17.4	17.4	86.0	86.2	86.2	57.3	54.9	58.0
Pine Bluff .....	1.3	1.3	1.3	8.4	8.7	8.6	7.7	7.3	7.9
<b>California</b> .....	733.5	738.1	736.2	3,969.9	4,122.7	4,125.5	2,093.1	2,039.8	2,122.4
Bakersfield .....	6.0	6.6	6.6	41.9	42.4	42.2	46.4	44.3	47.6
Fresno .....	13.9	13.6	13.6	69.6	72.0	71.7	65.0	62.6	65.0
Los Angeles-Long Beach .....	216.4	216.9	216.6	1,262.4	1,291.1	1,299.0	529.8	514.9	534.1
Modesto .....	4.2	4.5	4.5	30.7	31.3	31.3	22.4	22.8	23.0
Oakland .....	51.9	51.6	51.3	268.9	274.4	275.2	167.0	161.4	167.1
Orange County .....	85.4	86.0	86.0	367.1	379.6	379.6	128.3	123.3	131.4
Riverside-San Bernardino .....	29.2	30.0	30.0	211.3	218.2	219.8	166.2	163.2	166.8
Sacramento .....	39.1	40.2	40.1	169.5	177.9	174.2	166.1	162.9	166.0
Salinas .....	5.9	6.1	6.0	31.6	33.4	33.3	27.1	27.9	28.5
San Diego .....	56.3	57.1	56.9	321.2	335.3	331.1	186.1	179.4	188.0
San Francisco .....	98.3	99.3	99.0	353.6	361.5	363.3	122.2	121.8	122.4
San Jose .....	30.0	30.7	30.4	284.2	301.2	298.4	84.9	85.2	85.5
Santa Barbara-Santa Maria-Lompoc .....	7.1	7.1	7.1	46.9	47.4	46.8	28.1	28.7	29.0
Santa Rosa .....	9.3	9.4	9.4	45.0	45.9	45.6	25.3	22.0	25.2
Stockton-Lodi .....	8.4	8.4	8.4	41.3	42.0	43.1	33.3	32.7	34.1
Vallejo-Fairfield-Napa .....	5.7	5.7	5.7	37.9	39.3	39.3	30.2	29.3	30.5
Ventura .....	11.8	12.3	12.3	73.6	77.1	76.8	42.2	40.2	41.2
<b>Colorado</b> .....	118.4	122.4	121.1	569.0	594.1	587.4	308.7	292.4	311.7
Boulder-Longmont .....	5.5	5.6	5.5	47.2	49.7	49.0	25.1	22.7	25.9
Colorado Springs .....	10.5	10.5	10.4	67.9	71.4	71.5	32.9	32.4	33.4
Denver .....	78.5	82.3	82.2	308.0	318.0	317.7	141.8	134.9	143.3
<b>Connecticut</b> .....	130.4	131.2	130.3	489.3	503.0	504.7	222.9	211.3	225.8
Bridgeport .....	10.4	10.4	10.4	56.4	57.1	57.4	20.0	18.5	19.3
Danbury .....	4.0	4.3	4.3	23.8	24.5	24.5	8.6	8.0	8.8
Hartford .....	68.8	67.2	67.1	166.7	168.7	169.8	92.3	87.1	95.0
New Haven-Meriden .....	13.7	13.7	13.7	86.0	84.7	87.6	30.6	29.3	29.6
New London-Norwich .....	3.6	3.7	3.7	33.7	34.5	34.5	30.6	36.1	35.9
Stamford-Norwalk .....	22.9	23.8	24.0	68.8	71.4	70.4	17.4	16.6	17.4
Waterbury .....	4.4	4.7	4.6	25.6	26.0	26.0	12.6	12.4	12.6
<b>Delaware</b> .....	44.2	47.7	47.5	104.1	106.6	106.6	51.7	51.5	52.1
Dover .....	2.4	2.6	2.6	11.3	12.3	12.8	14.3	14.6	14.1
Wilmington-Newark .....	38.3	41.3	40.9	84.5	85.1	85.4	36.2	35.6	36.3
<b>District of Columbia</b> .....	28.0	27.8	27.6	264.7	263.3	267.9	237.5	228.8	227.3
Washington PMSA .....	130.4	130.0	129.3	910.6	942.2	947.9	591.6	567.5	583.0
<b>Florida</b> .....	396.8	410.5	410.9	2,127.5	2,229.5	2,242.4	933.8	871.3	953.3
Daytona Beach .....	6.7	6.7	6.7	51.0	52.7	52.7	23.3	21.0	24.3
Fort Lauderdale .....	43.5	44.3	44.4	203.4	214.3	214.8	83.2	76.8	84.4
Fort Myers-Cape Coral .....	8.1	8.2	8.4	48.2	49.0	49.0	23.9	22.1	24.2
Gainesville .....	4.9	5.2	5.1	31.2	31.8	32.2	38.1	36.9	38.9
Jacksonville .....	50.9	52.6	52.3	157.6	164.6	165.4	66.2	63.3	70.3
Lakeland-Winter Haven .....	7.6	7.7	7.8	45.0	47.9	48.2	24.7	23.2	25.8
Melbourne-Titusville-Palm Bay .....	5.7	5.8	5.8	59.2	61.3	61.2	23.9	24.6	24.2
Miami .....	67.0	69.0	68.4	304.4	312.5	314.1	132.3	129.2	135.8
Orlando .....	45.3	46.5	46.6	310.0	334.3	336.1	82.7	75.4	85.6
Pensacola .....	5.9	5.8	6.0	47.3	49.2	49.7	27.5	24.9	27.6
Sarasota-Bradenton .....	11.5	11.6	11.7	96.6	104.5	105.3	22.3	21.4	23.7
Tallahassee .....	5.6	5.7	5.7	37.3	39.2	39.3	57.1	55.0	57.4
Tampa-St. Petersburg-Clearwater .....	71.8	76.4	76.3	383.3	402.5	405.7	131.6	123.2	133.6
West Palm Beach-Boca Raton .....	29.0	29.9	29.9	156.4	163.9	166.1	53.1	48.6	53.8

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	Total			Mining			Construction		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>Georgia</b> .....	3,533.8	3,619.2	3,642.5	7.9	8.0	7.9	166.1	170.0	170.9
Albany .....	59.6	60.0	61.1	(2)	(2)	(2)	4.1	3.9	4.0
Athens .....	68.5	70.2	68.7	(1)	(1)	(1)	2.6	2.5	2.4
Atlanta .....	1,910.3	1,965.3	1,978.4	1.6	1.6	1.5	93.6	95.3	96.0
Augusta-Aiken .....	194.0	194.2	195.4	.4	.4	.4	10.7	10.6	10.5
Columbus .....	110.8	113.0	113.5	(1)	(1)	(1)	5.1	5.1	5.1
Macon .....	146.1	147.7	148.9	1.2	1.1	1.1	6.5	6.4	6.4
Savannah .....	131.7	132.0	132.9	(1)	(1)	(1)	7.6	7.4	7.3
<b>Hawaii</b> .....	516.9	523.6	519.4	(1)	(1)	(1)	23.9	21.2	21.3
Honolulu .....	394.7	396.8	394.1	(1)	(1)	(1)	18.1	16.1	16.1
<b>Idaho</b> .....	504.7	503.5	507.5	3.3	3.2	3.1	33.4	35.7	35.6
Boise City .....	188.9	194.7	198.8	(1)	(1)	(1)	13.8	15.0	14.8
<b>Illinois</b> .....	5,733.5	5,759.2	5,797.9	12.7	12.0	12.0	239.5	243.2	243.1
Bloomington-Normal .....	77.8	76.9	78.8	(1)	(1)	(1)	2.6	2.8	2.7
Champaign-Urbana .....	95.9	94.3	95.2	(1)	(1)	(1)	3.6	3.7	3.6
Chicago .....	4,012.3	4,047.3	4,063.7	1.7	1.7	1.7	163.9	167.2	166.9
Davenport-Moline-Rock Island .....	176.1	176.5	177.8	(1)	(1)	(1)	9.3	9.7	9.5
Decatur .....	58.1	57.3	57.5	(1)	(1)	(1)	3.9	3.9	3.8
Kankakee .....	43.7	44.0	43.9	(1)	(1)	(1)	2.6	2.5	2.5
Peoria-Pekin .....	168.1	167.4	169.2	(1)	(1)	(1)	8.1	8.4	8.3
Rockford .....	175.9	175.8	177.0	(1)	(1)	(1)	7.2	7.4	7.3
Springfield .....	112.5	118.6	113.7	(1)	(1)	(1)	5.3	5.5	5.3
<b>Indiana</b> .....	2,857.3	2,826.0	2,872.7	6.6	6.7	6.7	140.3	145.3	142.1
Bloomington .....	66.0	61.0	65.7	(1)	(1)	(1)	3.5	3.6	3.4
Elkhart-Goshen .....	117.0	116.4	117.4	(1)	(1)	(1)	4.6	4.7	4.6
Evansville-Henderson .....	151.2	151.2	152.2	1.4	1.5	1.5	9.4	9.7	9.4
Fort Wayne .....	267.1	265.4	268.6	(1)	(1)	(1)	13.0	13.7	13.6
Gary .....	282.0	259.7	284.5	(1)	(1)	(1)	17.9	17.5	17.6
Indianapolis .....	824.0	822.9	835.2	.8	.7	.7	44.5	48.2	46.2
Kokomo .....	52.9	51.8	52.8	(1)	(1)	(1)	1.8	2.2	2.2
Lafayette .....	92.3	86.2	94.0	(1)	(1)	(1)	3.9	4.5	4.4
Muncie .....	59.3	56.4	60.5	(1)	(1)	(1)	2.7	2.8	2.8
South Bend .....	133.3	135.0	135.7	(1)	(1)	(1)	7.4	8.0	7.7
Terre Haute .....	70.4	67.1	70.3	.2	.2	.2	3.3	3.5	3.5
<b>Iowa</b> .....	1,382.7	1,393.1	1,409.7	2.3	2.3	2.2	63.6	68.6	67.1
Cedar Rapids .....	109.2	109.2	110.6	(1)	(1)	(1)	5.8	5.7	5.9
Des Moines .....	266.2	289.3	270.7	(1)	(1)	(1)	12.7	12.5	12.3
Dubuque .....	50.1	49.2	50.2	(1)	(1)	(1)	2.2	2.2	2.2
Iowa City .....	62.6	60.8	62.6	(1)	(1)	(1)	2.3	2.5	2.4
Sioux City .....	84.4	63.7	64.4	(1)	(1)	(1)	3.9	3.9	3.8
Waterloo-Cedar Falls .....	69.1	67.3	69.3	(1)	(1)	(1)	2.8	2.9	2.8
<b>Kansas</b> .....	1,238.6	1,249.7	1,270.1	7.8	7.8	7.7	59.5	64.2	63.7
Lawrence .....	44.5	41.3	44.0	(1)	(1)	(1)	2.1	2.0	2.1
Topeka .....	99.8	98.6	98.8	(1)	(1)	(1)	4.8	4.7	4.6
Wichita .....	288.0	270.3	274.4	1.4	1.4	1.4	14.0	14.8	14.6
<b>Kentucky</b> .....	1,690.7	1,706.0	1,729.0	22.8	22.0	21.8	82.3	82.2	82.1
Lexington .....	263.3	263.9	270.2	.2	.3	.2	13.0	13.7	13.6
Louisville .....	541.9	543.5	552.8	.6	.6	.6	27.7	28.4	27.9
Owensboro .....	42.3	43.1	43.5	.3	.3	.3	3.1	3.3	3.2
<b>Louisiana</b> .....	1,829.1	1,825.5	1,848.5	50.3	52.8	53.2	115.1	116.0	115.7
Alexandria .....	53.5	52.6	52.8	.1	.1	.1	3.1	3.3	3.3
Baton Rouge .....	281.6	288.4	292.6	.8	1.0	1.0	31.5	32.4	33.4
Houma .....	70.0	73.1	74.0	6.7	7.4	7.6	3.2	3.5	3.6
Lafayette .....	154.8	159.2	158.8	13.9	15.0	15.0	8.6	8.9	9.0
Lake Charles .....	84.4	83.1	83.5	1.4	1.4	1.4	9.4	8.5	8.2
Monroe .....	67.1	66.8	68.0	.2	.2	.2	3.7	3.7	3.8
New Orleans .....	609.7	606.7	611.4	14.3	14.8	14.7	28.2	28.4	28.4
Shreveport-Bossier City .....	169.2	168.4	169.1	2.5	2.5	2.5	10.1	10.4	10.2
<b>Maine</b> .....	554.1	560.0	565.6	.1	.1	.1	26.2	26.9	27.1
Lewiston-Auburn .....	41.1	40.7	42.5	(2)	(2)	(2)	1.7	2.0	2.0
Portland .....	138.1	139.0	139.2	(2)	(2)	(2)	6.5	6.9	6.7

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		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Georgia</b> .....	586.5	587.7	587.5	222.1	227.2	233.8	899.0	922.6	924.9
Albany .....	8.6	8.4	8.5	2.7	2.8	2.8	14.3	14.7	15.0
Athens .....	11.9	12.0	11.9	2.0	2.0	2.0	18.7	18.8	18.8
Atlanta .....	217.3	219.9	219.3	158.6	159.3	164.5	512.9	527.0	528.1
Augusta-Aiken .....	41.4	41.0	40.9	6.4	6.5	6.6	43.3	44.5	44.5
Columbus .....	20.9	20.6	20.8	3.6	3.7	3.8	25.7	25.8	25.9
Macon .....	20.8	21.1	21.1	5.2	5.3	5.3	33.8	34.1	34.1
Savannah .....	17.3	17.5	17.7	9.5	9.5	9.3	34.1	34.6	34.5
<b>Hawaii</b> .....	16.4	16.4	15.9	40.9	40.5	40.7	134.4	133.9	133.4
Honolulu .....	12.7	12.5	12.3	33.1	32.9	33.0	100.7	98.7	98.5
<b>Idaho</b> .....	74.0	74.6	75.4	24.0	23.5	24.0	127.5	127.1	125.2
Boise City .....	33.8	35.1	35.5	9.2	9.2	9.5	45.1	47.4	47.2
<b>Illinois</b> .....	978.1	980.8	979.6	331.9	324.6	343.8	1,311.2	1,308.7	1,307.0
Bloomington-Normal .....	8.8	8.9	9.0	2.9	2.7	2.8	17.7	17.5	17.7
Champaign-Urbana .....	12.0	12.2	12.1	2.5	2.4	2.5	21.6	21.2	21.8
Chicago .....	659.1	662.1	661.9	245.2	238.8	253.5	909.1	904.4	905.6
Davenport-Moline-Rock Island .....	29.6	30.3	30.1	9.1	8.6	9.1	47.8	48.2	48.0
Decatur .....	13.9	13.6	13.6	5.1	5.0	5.2	12.4	12.5	12.5
Kankakee .....	8.5	8.7	8.6	1.9	1.9	1.9	10.7	10.8	10.8
Peoria-Pekin .....	32.0	32.2	32.3	9.2	9.2	9.3	40.4	41.0	40.7
Rockford .....	53.2	54.2	53.9	8.3	7.0	8.3	36.5	37.3	37.2
Springfield .....	4.5	4.5	4.5	4.8	4.8	4.9	24.4	26.6	24.6
<b>Indiana</b> .....	675.9	675.5	674.3	139.6	137.8	141.5	684.3	690.0	688.6
Bloomington .....	9.9	10.6	10.6	1.8	2.0	2.0	15.1	14.1	14.6
Elkhart-Goshen .....	58.7	59.0	58.7	3.4	3.0	3.3	22.3	22.3	22.2
Evansville-Henderson .....	31.8	31.0	31.1	7.3	7.2	7.4	36.2	35.8	36.1
Fort Wayne .....	73.4	74.0	73.7	12.7	12.2	12.6	63.5	64.0	64.0
Gary .....	51.1	50.2	50.0	15.1	15.0	15.2	63.5	63.5	63.6
Indianapolis .....	127.2	126.0	125.9	48.9	47.2	48.9	217.3	218.9	218.8
Kokomo .....	21.1	20.3	20.4	1.3	1.3	1.4	11.7	11.8	11.7
Lafayette .....	21.9	22.3	22.2	2.3	2.2	2.3	19.4	18.7	19.0
Muncie .....	10.9	10.6	10.5	4.0	4.1	4.2	13.5	13.5	13.5
South Bend .....	21.9	22.4	22.1	5.8	5.9	6.0	34.0	34.5	33.9
Terre Haute .....	11.9	11.6	11.6	3.5	3.2	3.2	20.5	20.0	19.9
<b>Iowa</b> .....	247.5	250.2	249.8	63.7	63.4	66.1	342.5	346.7	344.9
Cedar Rapids .....	20.6	21.6	21.8	7.9	7.4	7.5	24.5	24.7	24.8
Des Moines .....	24.8	24.8	24.9	13.1	12.8	13.9	70.4	71.0	70.5
Dubuque .....	11.6	12.0	12.0	2.1	2.0	2.1	11.9	12.1	11.9
Iowa City .....	4.8	4.6	4.6	2.1	1.8	1.8	12.6	12.3	12.9
Sioux City .....	12.9	12.5	12.8	3.8	3.7	3.8	15.9	15.7	15.7
Waterloo-Cedar Falls .....	14.2	14.2	14.2	2.1	2.1	2.2	16.4	16.3	16.2
<b>Kansas</b> .....	197.5	205.3	205.7	70.3	70.1	72.9	305.5	312.6	312.0
Lawrence .....	5.2	5.2	5.2	1.2	1.1	1.1	11.8	11.5	11.9
Topeka .....	9.8	9.6	9.6	6.5	6.7	6.7	21.6	21.4	21.4
Wichita .....	63.7	69.6	70.1	10.4	9.9	10.2	61.9	63.0	62.7
<b>Kentucky</b> .....	312.9	318.1	318.9	93.9	88.7	86.9	404.4	414.0	415.0
Lexington .....	44.2	45.6	45.5	10.5	9.9	10.7	60.3	60.9	61.9
Louisville .....	88.7	88.8	89.1	38.4	30.9	38.9	133.8	137.4	137.5
Owensboro .....	6.8	7.0	7.1	2.1	2.3	2.3	10.9	11.3	11.4
<b>Louisiana</b> .....	190.5	189.7	190.0	109.2	109.0	110.6	424.8	431.4	431.6
Alexandria .....	3.4	3.4	3.5	2.8	2.6	2.7	11.7	12.0	11.9
Baton Rouge .....	24.4	24.8	24.9	12.6	12.4	12.6	64.5	67.9	68.4
Houma .....	6.3	7.2	7.2	7.3	7.5	7.5	16.7	17.1	17.2
Lafayette .....	15.5	16.0	16.1	9.4	9.5	9.5	40.1	41.1	41.0
Lake Charles .....	11.8	11.9	11.9	4.2	4.2	4.3	17.9	18.2	18.3
Monroe .....	8.4	8.0	8.0	3.8	3.8	3.8	16.6	16.9	17.1
New Orleans .....	47.9	47.8	47.7	42.2	41.3	42.3	151.5	152.6	152.5
Shreveport-Bossier City .....	20.1	19.8	19.7	8.3	7.9	8.1	38.4	39.4	39.4
<b>Maine</b> .....	88.8	90.3	89.2	22.6	22.2	23.1	141.8	147.9	145.2
Lewiston-Auburn .....	7.6	8.0	8.0	1.8	1.8	1.8	10.5	10.6	10.9
Portland .....	14.1	15.2	15.2	6.3	6.5	6.3	40.5	40.5	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		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>Georgia</b> .....	182.0	190.4	189.9	913.6	960.3	964.2	556.6	553.0	563.4
Albany .....	2.2	2.3	2.4	15.0	15.3	15.5	12.7	12.6	12.9
Athens .....	2.1	2.3	2.2	14.9	15.5	15.7	16.3	17.1	15.7
Atlanta .....	122.8	128.6	128.8	559.1	588.4	589.6	244.4	245.2	250.6
Augusta-Aiken .....	6.4	6.2	8.2	45.7	46.1	46.1	39.7	38.9	40.2
Columbus .....	7.3	8.0	7.9	28.5	30.2	30.2	19.7	19.6	19.8
Macon .....	8.3	8.2	8.2	37.5	39.5	39.2	32.8	32.0	33.5
Savannah .....	4.3	4.4	4.4	38.2	38.3	38.6	20.7	20.3	21.1
<b>Hawaii</b> .....	36.9	35.9	35.7	168.2	167.9	168.6	100.2	108.0	103.8
Honolulu .....	29.8	28.9	28.8	120.5	121.7	122.6	79.8	86.0	82.8
<b>Idaho</b> .....	25.4	25.7	25.7	118.0	121.2	120.8	99.1	92.5	97.7
Boise City .....	11.6	11.8	11.8	46.7	47.8	48.4	28.7	28.4	29.8
<b>Illinois</b> .....	386.1	394.9	391.9	1,866.2	1,724.0	1,714.4	809.8	773.0	806.1
Bloomington-Normal .....	13.6	14.0	14.0	18.6	18.7	18.8	13.4	12.3	14.0
Champaign-Urbana .....	3.5	3.8	3.4	20.2	20.4	20.4	32.5	30.8	31.4
Chicago .....	301.2	308.4	306.1	1,243.3	1,287.1	1,279.7	488.8	477.6	488.3
Davenport-Moline-Rock Island .....	8.0	8.3	8.3	45.8	46.9	46.3	26.5	24.5	28.5
Decatur .....	1.9	2.0	1.9	14.1	14.1	14.0	6.8	6.2	6.5
Kankakee .....	1.7	1.7	1.7	11.5	11.9	11.7	6.8	6.5	6.7
Peoria-Pekin .....	8.1	8.1	8.0	51.8	52.1	51.7	18.5	16.4	18.9
Rockford .....	7.5	7.5	7.4	45.7	45.9	45.6	17.5	16.5	17.3
Springfield .....	7.8	8.0	7.9	32.7	35.6	32.9	33.0	33.6	33.6
<b>Indiana</b> .....	135.9	140.3	137.9	689.2	675.5	681.0	405.5	355.1	400.6
Bloomington .....	2.2	2.0	2.0	12.3	12.5	12.3	21.2	16.2	20.8
Elkhart-Goshen .....	2.8	2.8	2.8	18.0	18.1	18.6	7.2	6.5	7.2
Evansville-Henderson .....	7.3	7.4	7.4	42.4	44.0	43.6	15.4	14.6	15.7
Fort Wayne .....	14.7	14.7	14.7	61.9	62.2	62.4	27.9	24.6	27.6
Gary .....	9.4	9.8	9.5	68.6	71.8	72.3	36.4	31.9	36.3
Indianapolis .....	60.2	61.9	61.8	213.5	218.4	221.6	111.8	103.6	111.3
Kokomo .....	1.5	1.5	1.5	8.3	8.2	8.3	7.2	6.5	7.3
Lafayette .....	3.7	3.6	3.6	16.7	16.2	17.0	24.4	18.7	25.5
Muncie .....	1.8	1.7	1.7	15.1	15.4	15.3	11.3	8.3	12.5
South Bend .....	6.7	6.6	6.6	44.0	45.2	45.7	13.5	12.4	13.7
Terre Haute .....	2.3	2.4	2.4	16.4	16.7	17.2	12.3	9.5	12.3
<b>Iowa</b> .....	77.3	79.8	79.0	359.9	370.9	374.6	225.9	211.2	228.0
Cedar Rapids .....	5.7	5.9	5.9	34.0	34.9	35.0	10.7	9.0	9.9
Des Moines .....	38.4	38.5	38.2	75.7	78.9	77.8	33.3	32.8	33.1
Dubuque .....	1.6	1.6	1.6	17.1	16.2	16.7	3.6	3.1	3.7
Iowa City .....	1.7	1.9	1.9	13.4	13.0	13.2	25.7	24.7	25.8
Sioux City .....	2.6	2.6	2.6	18.0	18.5	18.3	7.3	6.8	7.4
Waterloo-Cedar Falls .....	3.2	3.3	3.2	17.9	18.1	18.6	12.5	10.4	12.1
<b>Kansas</b> .....	58.7	61.0	60.8	305.1	313.2	313.5	234.2	215.5	233.8
Lawrence .....	2.0	1.9	1.9	10.5	9.9	10.2	11.7	9.7	11.6
Topeka .....	6.6	7.0	8.9	27.0	26.9	26.7	23.5	22.3	22.9
Wichita .....	11.2	11.1	11.1	70.9	71.0	71.7	32.5	29.5	32.6
<b>Kentucky</b> .....	68.1	70.0	69.5	416.8	431.6	432.0	289.5	281.4	294.8
Lexington .....	10.0	10.6	10.4	70.3	72.5	72.9	54.8	50.4	55.0
Louisville .....	28.8	29.6	29.5	155.7	160.3	160.5	68.2	67.7	68.8
Owensboro .....	1.9	1.9	1.9	10.6	10.7	10.7	6.6	6.3	6.6
<b>Louisiana</b> .....	83.5	84.3	84.3	494.6	492.8	498.2	361.1	349.5	364.9
Alexandria .....	2.3	2.3	2.3	16.9	16.2	16.1	13.2	12.7	12.9
Baton Rouge .....	16.9	17.5	17.5	72.6	74.5	75.0	58.3	55.9	59.8
Houma .....	2.3	2.3	2.3	14.8	15.4	15.2	12.7	12.7	13.4
Lafayette .....	5.8	5.8	5.7	38.7	40.0	39.8	22.8	22.9	22.9
Lake Charles .....	2.6	2.7	2.6	24.1	23.3	23.4	13.2	12.9	13.4
Monroe .....	4.5	4.8	4.8	17.6	17.5	17.6	12.3	11.9	12.7
New Orleans .....	31.0	31.1	31.0	190.0	186.3	189.6	104.6	104.4	105.2
Shreveport-Bossier City .....	6.7	6.5	6.4	51.0	51.0	50.9	32.1	31.1	31.9
<b>Maine</b> .....	26.8	27.9	27.6	154.6	164.2	160.3	93.2	80.5	93.0
Lewiston-Auburn .....	2.0	2.1	2.0	12.9	12.8	13.1	4.6	3.8	4.7
Portland .....	12.3	12.4	12.4	40.5	41.0	40.9	17.9	16.5	17.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Maryland</b> .....	2,225.8	2,244.7	2,266.4	1.2	1.2	1.2	136.3	144.1	143.2
Baltimore FMSA .....	1,145.5	1,147.9	1,157.1	.2	.2	.2	64.5	67.9	67.3
Baltimore City .....	406.2	402.8	403.7	(1)	(1)	(1)	12.6	13.6	13.4
Suburban Maryland-D.C. ....	820.6	823.6	831.8	(1)	(1)	(1)	59.0	62.4	62.2
<b>Massachusetts</b> .....	3,069.3	3,108.5	3,138.9	1.3	1.3	1.3	102.4	107.5	106.1
Barnstable-Yarmouth .....	59.8	64.5	59.9	(1)	(1)	(1)	2.4	2.6	2.5
Boston .....	1,866.4	1,895.0	1,904.8	.4	.4	.4	57.2	58.7	58.2
Brockton .....	91.9	90.6	92.0	(2)	(2)	(2)	3.5	3.4	3.4
Fitchburg-Leominster .....	50.8	49.8	51.4	(2)	(2)	(2)	1.7	1.7	1.7
Lawrence .....	146.5	147.8	149.1	(2)	(2)	(2)	5.9	5.9	6.0
Lowell .....	109.6	108.9	112.0	(1)	(1)	(1)	5.1	5.3	5.1
New Bedford .....	62.2	62.9	63.4	(2)	(2)	(2)	2.2	2.3	2.2
Pittsfield .....	41.8	43.2	42.1	.1	.1	.1	1.7	1.9	1.9
Springfield .....	247.7	242.5	248.9	.1	.1	.1	8.0	8.8	8.4
Worcester .....	218.2	220.7	222.6	.2	.2	.2	7.4	8.3	8.1
<b>Michigan</b> .....	4,391.3	4,379.0	4,441.0	7.7	7.5	7.3	184.2	204.4	201.9
Ann Arbor .....	262.7	258.2	268.3	(1)	(1)	(1)	10.1	11.0	10.8
Benton Harbor .....	71.7	72.3	72.6	(1)	(1)	(1)	2.4	2.7	2.6
Detroit .....	2,076.2	2,087.7	2,109.8	.8	.7	.8	78.6	88.1	87.8
Flint .....	183.3	179.0	183.4	(1)	(1)	(1)	7.2	7.7	7.6
Grand Rapids-Muskegon-Holland .....	542.8	548.7	556.9	(1)	(1)	(1)	25.8	27.5	26.4
Jackson .....	80.8	81.0	81.4	(1)	(1)	(1)	2.4	2.6	2.5
Kalamazoo-Battle Creek .....	208.2	205.4	210.3	(1)	(1)	(1)	8.1	8.6	8.5
Lansing-East Lansing .....	230.9	224.8	232.1	(1)	(1)	(1)	8.7	9.4	9.2
Saginaw-Bay City-Midland .....	177.4	177.8	180.5	(1)	(1)	(1)	9.3	10.3	10.2
<b>Minnesota</b> .....	2,452.8	2,488.6	2,504.0	8.4	8.4	8.2	101.0	107.6	105.3
Duluth-Superior .....	109.6	110.8	111.5	5.0	5.1	5.0	4.4	4.7	4.8
Minneapolis-St. Paul .....	1,586.1	1,611.7	1,618.0	(2)	(2)	(2)	62.5	66.5	65.4
Rochester .....	71.8	73.6	73.7	(1)	(1)	(1)	2.8	3.1	3.0
St. Cloud .....	83.9	82.6	85.2	(1)	(1)	(1)	4.2	4.4	4.3
<b>Mississippi</b> .....	1,099.9	1,100.6	1,107.5	5.3	5.3	5.1	49.5	51.5	51.1
Jackson .....	218.1	219.0	218.8	(2)	(2)	(2)	10.6	11.4	11.4
<b>Missouri</b> .....	2,582.8	2,596.5	2,625.3	4.9	4.8	4.8	120.6	125.4	125.4
Kansas City .....	888.7	900.6	909.5	(1)	(1)	(1)	46.4	50.2	50.8
St. Louis .....	1,278.9	1,283.6	1,291.6	(1)	(1)	(1)	67.0	68.9	68.8
Springfield .....	156.1	154.0	157.0	(1)	(1)	(1)	6.8	6.6	6.5
<b>Montana</b> .....	366.1	369.1	370.8	5.6	5.7	5.5	19.2	21.4	21.2
<b>Nebraska</b> .....	837.2	846.7	856.2	1.3	1.2	1.1	38.8	40.5	39.8
Lincoln .....	144.4	144.5	143.7	(1)	(1)	(1)	8.4	6.5	6.4
Omaha .....	384.2	392.9	395.4	(1)	(1)	(1)	18.8	19.7	19.5
<b>Nevada</b> .....	860.5	897.5	907.7	15.0	15.4	15.1	80.6	86.5	86.9
Las Vegas .....	602.9	633.2	640.3	2.1	2.2	2.2	61.8	65.8	66.3
Reno .....	175.7	178.5	181.6	.6	.6	.5	12.9	14.2	14.2
<b>New Hampshire</b> .....	567.7	575.8	578.8	.8	.5	.6	22.4	22.9	22.6
Manchester .....	94.3	93.9	95.0	(1)	(1)	(1)	4.2	4.7	4.7
Nashua .....	88.5	90.2	91.2	(1)	(1)	(1)	2.7	2.5	2.6
Portsmouth-Rochester .....	114.0	113.7	112.7	(1)	(1)	(1)	3.5	3.4	3.5
<b>New Jersey</b> .....	3,666.5	3,718.4	3,726.1	2.0	2.1	2.1	132.2	135.6	135.2
Atlantic-Cape May .....	187.3	199.8	190.5	(1)	(1)	(1)	7.4	8.7	8.4
Bergen-Passaic .....	629.2	631.0	633.3	(1)	(1)	(1)	22.5	22.7	22.0
Camden .....	459.7	467.7	473.5	(1)	(1)	(1)	21.1	21.7	21.5
Jersey City .....	241.6	242.0	247.3	(1)	(1)	(1)	4.1	4.8	4.9
Middlesex-Somerset-Hunterdon .....	584.9	592.2	597.8	.5	.6	.6	20.0	20.3	19.7
Monmouth-Ocean .....	359.0	373.7	361.3	(1)	(1)	(1)	18.0	18.1	17.8
Newark .....	931.1	938.6	945.6	.7	.7	.7	31.5	31.5	31.9
Tranton .....	192.0	192.4	194.0	(1)	(1)	(1)	4.3	4.4	4.4
Vineland-Milville-Bridgeton .....	58.1	58.1	59.1	.3	.3	.3	2.0	2.2	2.1
<b>New Mexico</b> .....	700.6	705.5	712.1	15.3	15.5	15.5	43.3	43.5	43.2
Albuquerque .....	329.2	333.0	336.2	(1)	(1)	(1)	22.7	22.5	22.0
Las Cruces .....	50.9	49.7	51.0	(1)	(1)	(1)	3.3	3.4	3.2
Santa Fe .....	70.4	71.8	71.2	(1)	(1)	(1)	3.5	3.5	3.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Maryland</b> .....	175.0	174.3	172.6	107.2	103.9	108.5	532.7	543.5	539.9
Baltimore PMSA .....	101.8	100.6	98.7	57.2	55.1	57.7	264.5	268.4	267.1
Baltimore City .....	32.7	32.5	30.3	19.6	18.0	19.5	66.1	65.4	65.1
Suburban Maryland-D.C. ....	36.6	37.2	37.1	34.4	31.8	33.5	197.9	200.6	200.0
<b>Massachusetts</b> .....	443.6	448.7	449.4	131.0	124.8	133.4	704.5	717.5	712.7
Barnstable-Yarmouth .....	2.1	1.9	1.9	3.1	3.1	3.0	20.8	23.6	20.9
Boston .....	219.6	221.4	221.0	81.7	79.3	82.7	403.9	405.1	403.9
Brockton .....	11.0	10.3	10.6	5.1	4.7	5.1	30.8	31.8	31.0
Fitchburg-Leominster .....	13.3	13.5	13.4	2.0	1.8	2.1	12.2	12.1	12.2
Lawrence .....	37.3	38.1	38.1	5.0	4.7	5.1	34.7	35.9	35.8
Lowell .....	28.3	28.7	28.9	6.4	5.4	6.8	23.4	23.6	23.9
New Bedford .....	13.7	14.2	14.4	2.4	2.3	2.5	16.4	16.6	16.4
Pittsfield .....	7.6	7.5	7.3	1.2	1.2	1.2	10.2	10.5	10.2
Springfield .....	39.1	39.2	39.4	9.5	8.4	9.1	57.8	57.6	58.1
Worcester .....	41.4	43.1	42.9	9.2	8.3	9.1	47.8	48.1	47.3
<b>Michigan</b> .....	976.2	956.4	955.2	170.2	167.1	172.4	1,029.2	1,052.3	1,049.4
Ann Arbor .....	53.8	52.9	53.4	5.6	5.7	5.9	51.9	52.9	53.2
Benton Harbor .....	20.9	21.1	21.0	2.9	2.9	3.0	16.2	16.7	16.5
Detroit .....	453.0	437.4	439.1	93.4	92.8	95.2	491.1	506.3	506.1
Flint .....	44.8	40.9	40.8	5.1	5.0	5.2	45.8	47.5	47.4
Grand Rapids-Muskegon-Holland .....	152.6	157.1	155.5	19.0	18.8	19.6	134.9	139.8	140.1
Jackson .....	12.9	13.1	12.8	3.6	3.6	3.6	15.5	15.9	15.6
Kalamazoo-Battle Creek .....	50.0	49.9	49.8	6.9	6.7	7.1	46.6	47.3	47.3
Lansing-East Lansing .....	30.2	30.2	30.2	6.1	5.6	6.1	51.3	51.3	51.8
Saginaw-Bay City-Midland .....	40.0	39.6	39.6	7.1	7.1	7.3	45.2	46.5	46.7
<b>Minnesota</b> .....	435.9	444.8	442.0	121.2	117.9	124.9	595.5	607.6	605.0
Duluth-Superior .....	8.2	8.2	8.2	7.1	7.5	7.6	28.4	28.6	28.6
Minneapolis-St. Paul .....	275.0	280.0	278.0	87.0	83.0	87.9	381.2	392.9	390.4
Rochester .....	10.8	12.0	11.8	2.0	2.0	2.1	14.4	14.6	14.5
St. Cloud .....	15.4	15.8	15.7	2.9	2.9	2.9	25.8	25.8	26.0
<b>Mississippi</b> .....	244.7	240.2	239.3	53.3	50.8	52.6	233.4	233.7	232.6
Jackson .....	21.2	22.0	21.6	15.4	13.7	14.8	51.5	51.6	51.3
<b>Missouri</b> .....	408.9	412.8	409.2	161.0	157.9	157.4	617.1	617.5	617.0
Kansas City .....	107.0	107.9	105.6	70.1	67.8	70.1	220.2	225.9	225.4
St. Louis .....	192.7	196.2	194.2	80.4	79.0	81.7	306.2	313.1	311.0
Springfield .....	23.8	23.5	23.6	10.6	11.6	11.7	44.8	44.2	44.2
<b>Montana</b> .....	24.4	24.7	24.6	20.9	19.9	20.7	99.2	102.1	100.7
<b>Nebraska</b> .....	113.9	115.1	114.9	50.3	50.7	50.9	206.1	209.8	210.3
Lincoln .....	16.7	17.3	17.4	9.1	9.1	9.1	30.8	30.0	30.1
Omaha .....	39.6	39.0	38.8	26.1	25.8	26.2	91.4	93.6	94.1
<b>Nevada</b> .....	39.0	40.3	40.5	42.7	43.6	45.0	172.8	182.6	183.3
Las Vegas .....	21.4	22.6	22.6	30.3	31.2	31.7	122.3	130.2	130.8
Reno .....	13.0	13.4	13.5	10.7	10.5	11.2	39.8	41.1	41.3
<b>New Hampshire</b> .....	105.2	107.1	107.2	19.8	19.4	19.8	145.5	154.5	150.3
Manchester .....	13.2	13.4	13.2	5.5	5.6	5.4	23.0	23.4	23.5
Nashua .....	27.1	28.1	28.2	2.2	2.1	2.2	21.4	22.7	22.3
Portsmouth-Rochester .....	16.6	19.1	19.3	4.0	4.4	4.4	30.0	31.1	29.8
<b>New Jersey</b> .....	469.5	483.7	484.7	257.5	242.7	260.2	663.7	682.0	678.7
Atlantic-Cape May .....	6.5	6.4	6.3	7.3	7.3	7.5	41.0	47.6	42.2
Bergen-Passaic .....	107.9	105.0	105.2	34.7	32.4	34.4	173.6	173.9	175.5
Camden .....	58.0	55.3	55.4	22.3	20.4	22.7	124.2	128.3	129.1
Jersey City .....	30.2	29.8	30.3	29.4	25.4	29.1	57.5	56.8	57.7
Middlesex-Somerset-Hunterdon .....	93.5	91.7	92.0	47.1	44.2	46.9	135.3	136.6	137.5
Monmouth-Ocean .....	21.4	22.6	21.1	21.4	20.6	21.4	96.9	104.4	100.5
Newark .....	136.5	136.0	136.9	81.4	76.5	82.9	186.5	187.9	189.8
Trenton .....	20.2	19.5	19.6	7.5	7.2	7.2	32.0	31.5	31.4
Vineland-Millville-Bridgeton .....	13.3	13.6	13.8	3.0	2.9	3.3	11.1	11.5	11.4
<b>New Mexico</b> .....	47.2	47.6	46.0	31.1	29.6	31.6	165.7	170.2	168.9
Albuquerque .....	29.6	30.6	30.5	14.7	14.3	14.9	79.4	81.2	81.1
Las Cruces .....	2.9	3.0	3.0	1.8	1.8	1.8	10.7	10.9	10.9
Santa Fe .....	2.0	2.0	1.9	1.3	1.2	1.3	15.2	15.6	15.3

See footnotes at end of table.



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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>Maryland</b> .....	128.6	129.0	128.6	725.8	750.4	747.3	419.0	398.3	425.1
Baltimore PMSA .....	71.4	70.5	69.8	376.7	384.6	386.7	209.2	200.6	209.6
Baltimore City .....	33.3	33.2	32.7	153.2	153.2	153.7	88.7	88.9	89.0
Suburban Maryland-D.C. ....	48.4	48.3	48.3	277.9	283.1	281.8	166.4	160.2	168.9
<b>Massachusetts</b> .....	210.8	220.2	218.6	1,076.8	1,111.7	1,116.2	398.9	376.8	401.2
Barnstable-Yarmouth .....	3.4	3.9	3.7	20.1	21.4	19.9	7.9	7.8	8.0
Boston .....	156.4	162.8	161.6	729.0	757.3	757.9	218.2	210.0	219.1
Brockton .....	3.1	3.1	3.0	23.2	22.9	23.2	15.4	14.6	15.7
Fitchburg-Leominster .....	1.5	1.5	1.6	12.7	12.8	12.8	7.4	6.4	7.6
Lawrence .....	4.8	4.4	4.4	42.5	43.1	43.3	16.5	15.7	16.4
Lowell .....	3.8	3.8	3.9	29.0	29.6	30.0	13.6	12.5	13.4
New Bedford .....	2.0	2.0	2.0	15.9	16.1	16.1	9.6	9.4	9.8
Pittsfield .....	1.9	2.0	1.9	14.4	15.6	14.7	4.7	4.4	4.8
Springfield .....	12.4	12.0	11.9	76.6	75.9	77.2	44.2	40.5	44.7
Worcester .....	14.9	15.4	15.4	65.6	65.5	67.0	31.7	31.8	32.6
<b>Michigan</b> .....	201.6	205.6	203.0	1,180.5	1,216.2	1,212.1	641.8	569.4	639.8
Ann Arbor .....	9.8	10.2	10.2	62.3	64.1	64.5	69.2	61.4	70.3
Benton Harbor .....	2.6	2.6	2.8	18.3	18.5	18.5	6.4	7.7	8.4
Detroit .....	110.7	112.8	111.9	623.4	648.4	647.2	225.2	201.0	221.7
Flint .....	6.7	6.9	6.8	49.2	50.8	50.7	24.4	20.3	25.0
Grand Rapids-Muskegon-Holland .....	21.3	22.3	22.4	136.7	137.5	140.1	52.5	45.9	52.7
Jackson .....	1.8	1.8	1.8	14.3	14.6	14.7	10.2	9.4	10.4
Kalamazoo-Battle Creek .....	10.7	10.9	10.8	52.2	52.4	52.8	33.8	29.5	34.1
Lansing-East Lansing .....	13.2	13.5	13.4	54.8	55.9	55.9	66.8	58.9	65.5
Saginaw-Bay City-Midland .....	6.8	6.8	6.7	46.5	47.3	47.5	22.5	20.2	22.5
<b>Minnesota</b> .....	143.3	147.1	146.7	682.3	702.2	702.8	365.2	353.2	369.1
Duluth-Superior .....	3.4	3.5	3.5	31.4	31.6	31.6	21.7	21.6	22.2
Minneapolis-St. Paul .....	113.5	115.3	114.8	457.4	473.1	473.8	208.8	200.3	207.1
Rochester .....	2.3	2.4	2.4	32.1	33.1	32.8	7.4	6.4	7.1
St. Cloud .....	2.9	3.0	3.0	20.4	19.9	20.8	12.3	10.8	12.5
<b>Mississippi</b> .....	40.9	41.0	40.8	252.1	253.7	256.1	220.7	224.4	229.9
Jackson .....	15.3	15.8	15.8	55.9	57.6	56.7	45.5	46.0	46.5
<b>Missouri</b> .....	150.8	158.8	157.4	721.2	735.7	737.3	398.3	383.6	416.8
Kansas City .....	62.6	64.2	64.0	255.2	261.0	259.5	127.2	123.6	133.9
St. Louis .....	77.9	78.3	77.4	398.6	405.7	405.1	156.1	142.4	153.4
Springfield .....	6.8	6.8	6.8	45.1	44.9	45.3	18.4	16.4	18.9
<b>Montana</b> .....	16.0	17.0	16.8	103.9	107.9	105.7	76.9	70.4	75.6
<b>Nebraska</b> .....	53.0	55.5	55.5	221.2	229.7	231.3	150.6	144.2	152.4
Lincoln .....	9.3	9.9	9.9	36.1	36.2	36.9	36.0	35.5	33.9
Omaha .....	32.6	34.1	34.1	127.3	134.2	133.9	48.6	46.5	48.8
<b>Nevada</b> .....	37.9	39.8	39.8	369.7	389.3	390.3	102.8	100.0	106.8
Las Vegas .....	29.0	30.3	30.3	273.0	290.0	291.1	63.0	60.9	65.3
Reno .....	7.8	8.0	8.0	68.4	69.5	69.4	22.7	21.2	23.5
<b>New Hampshire</b> .....	28.1	28.7	27.9	166.2	169.8	167.4	79.9	72.9	81.0
Manchester .....	7.1	6.7	6.6	31.1	30.9	31.0	10.2	9.2	10.6
Nashua .....	3.1	3.1	3.0	24.1	24.6	24.9	7.9	7.1	8.0
Portsmouth-Rochester .....	5.8	5.9	5.8	29.8	30.6	29.8	22.3	19.2	20.1
<b>New Jersey</b> .....	232.8	238.9	236.6	1,137.4	1,188.9	1,177.6	551.4	544.5	551.0
Atlantic-Cape May .....	6.0	6.4	6.3	90.0	94.9	90.9	29.1	28.5	28.9
Bergen-Passaic .....	34.4	35.0	34.6	188.6	194.9	195.7	67.5	67.1	65.9
Camden .....	22.3	22.8	23.0	139.1	146.9	146.6	74.7	72.3	75.2
Jersey City .....	24.0	25.4	25.4	57.7	60.4	61.5	38.7	39.4	38.4
Middlesex-Somerset-Hunterdon .....	42.7	44.6	43.6	170.6	183.5	182.6	75.0	70.5	74.9
Monmouth-Ocean .....	18.0	18.6	18.6	119.3	127.8	121.1	62.0	61.6	60.8
Newark .....	70.1	70.3	69.7	266.6	295.4	294.2	135.8	138.5	139.7
Trenton .....	11.0	11.5	11.2	65.8	67.7	68.0	51.2	50.6	52.2
Vineland-Millville-Bridgeton .....	3.3	3.3	3.3	12.4	12.2	12.3	12.7	12.1	12.8
<b>New Mexico</b> .....	31.7	32.3	31.9	194.0	199.4	198.1	172.3	167.4	174.9
Albuquerque .....	17.2	17.5	17.3	101.9	105.2	105.9	63.5	61.7	64.5
Las Cruces .....	1.9	1.9	1.9	11.2	11.0	11.0	19.1	17.9	19.2
Santa Fe .....	3.2	3.3	3.3	21.2	22.5	22.1	24.0	23.7	23.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>New York</b> .....	7,943.1	8,005.1	8,044.8	5.1	5.2	5.2	279.8	287.9	287.9
Albany-Schenectady-Troy .....	425.1	424.1	427.7	.6	.6	.6	15.8	16.2	16.0
Binghamton .....	111.8	111.9	115.2	(1)	(1)	(1)	4.3	4.4	4.2
Buffalo-Niagara Falls .....	542.9	537.2	542.9	(1)	(1)	(1)	23.6	23.5	23.5
Dutchess County .....	106.1	105.6	107.3	(1)	(1)	(1)	4.3	4.8	4.7
Elmira .....	41.7	42.5	42.8	(1)	(1)	(1)	1.7	1.9	1.8
Glens Falls .....	50.2	52.9	50.3	(1)	(1)	(1)	2.1	2.2	2.1
Nassau-Suffolk .....	1,103.5	1,115.8	1,126.0	(1)	(1)	(1)	47.9	49.7	50.5
New York PMSA .....	3,866.4	3,897.8	3,918.6	(1)	(1)	(1)	123.4	123.3	124.9
New York City .....	3,364.4	3,391.1	3,412.2	.3	.3	.3	97.9	97.5	99.3
Newburgh .....	118.9	118.8	119.2	(1)	(1)	(1)	4.7	4.6	4.6
Rochester .....	530.1	528.7	532.6	.5	.4	.4	18.6	19.6	19.3
Rockland County .....	99.3	99.1	100.1	(1)	(1)	(1)	4.4	4.2	4.2
Syracuse .....	337.5	330.0	338.2	(1)	(1)	(1)	13.9	14.1	13.7
Utica-Rome .....	127.6	127.0	127.8	(1)	(1)	(1)	3.8	3.8	3.6
Westchester County .....	383.0	386.9	386.2	(1)	(1)	(1)	19.1	19.4	19.3
<b>North Carolina</b> .....	3,589.2	3,602.5	3,657.3	3.8	4.0	4.0	194.9	203.8	204.8
Asheville .....	103.8	103.4	105.1	(1)	(1)	(1)	5.9	6.1	6.1
Charlotte-Gastonia-Rock Hill .....	733.4	735.4	739.4	(1)	(1)	(1)	44.1	45.4	45.3
Greensboro-Winston-Salem-High Point .....	615.4	606.5	608.7	(1)	(1)	(1)	29.6	30.6	30.6
Raleigh-Durham-Chapel Hill .....	577.8	582.0	591.3	(1)	(1)	(1)	31.5	33.7	33.7
<b>North Dakota</b> .....	313.3	318.5	321.8	4.2	4.5	4.4	17.3	20.1	19.1
Bismarck .....	47.7	48.9	48.9	(1)	(1)	(1)	2.8	2.9	2.7
Fargo-Moorhead .....	91.5	94.8	96.4	(1)	(1)	(1)	6.4	7.6	7.2
Grand Forks .....	49.3	49.6	51.3	(1)	(1)	(1)	2.6	3.4	3.2
<b>Ohio</b> .....	5,336.2	5,349.9	5,385.6	14.1	13.9	13.9	230.3	237.2	235.9
Akron .....	322.0	318.4	323.8	.4	.4	.4	13.8	14.5	14.6
Canton-Massillon .....	179.7	180.9	182.1	.7	.7	.7	8.8	9.4	9.3
Cincinnati .....	830.3	834.3	838.2	.7	.7	.7	39.6	42.7	42.6
Cleveland-Lorain-Elyria .....	1,125.7	1,139.0	1,144.0	.9	1.0	1.0	45.1	48.4	47.8
Columbus .....	800.3	812.8	811.9	.6	.6	.6	34.9	36.1	35.7
Dayton-Springfield .....	470.6	467.3	470.2	.5	.4	.4	17.9	18.5	18.3
Hamilton-Middletown .....	110.9	111.1	111.4	(1)	(1)	(1)	6.9	7.3	7.2
Lima .....	77.2	77.8	77.8	(1)	(1)	(1)	3.9	4.0	3.9
Mansfield .....	81.1	80.9	80.9	(1)	(1)	(1)	2.9	2.7	2.6
Staubenville-Weirton .....	50.5	47.0	48.8	.4	.4	.4	1.8	1.7	1.8
Toledo .....	313.4	307.3	314.0	.2	.3	.2	18.0	15.8	15.6
Youngstown-Warren .....	243.4	242.1	243.6	.6	.5	.5	10.6	10.8	10.6
<b>Oklahoma</b> .....	1,365.4	1,393.8	1,403.5	31.6	31.8	31.5	51.2	53.6	53.3
Enid .....	23.8	23.9	24.1	1.0	1.0	1.0	.9	1.2	1.1
Lawton .....	37.5	38.2	38.4	.1	.1	.1	1.4	1.6	1.6
Oklahoma City .....	495.5	497.3	505.9	6.9	7.1	7.1	19.4	19.7	19.7
Tulsa .....	367.0	378.0	378.6	7.7	7.8	7.7	14.4	15.2	14.9
<b>Oregon</b> .....	1,503.1	1,530.7	1,546.9	2.0	2.0	2.0	85.5	91.5	92.6
Eugene-Springfield .....	132.4	135.2	137.6	.2	.2	.2	7.1	7.3	7.4
Medford-Ashland .....	67.1	67.0	68.9	.1	.1	.1	3.2	3.1	3.0
Portland-Vancouver .....	889.1	912.4	922.6	1.2	1.2	1.2	54.5	58.3	59.0
Salem .....	133.5	135.1	135.6	.3	.3	.3	7.3	7.5	7.5
<b>Pennsylvania</b> .....	5,353.4	5,395.0	5,463.1	20.1	20.4	20.2	219.2	233.6	231.1
Allentown Bethlehem-Easton .....	260.0	259.9	263.0	(1)	(1)	(1)	10.8	10.9	10.7
Altoona .....	57.5	57.8	57.7	(1)	(1)	(1)	2.8	2.7	2.7
Erie .....	129.2	128.6	130.5	(1)	(1)	(1)	4.9	4.9	4.7
Harrisburg-Lebanon-Carlisle .....	347.3	349.3	351.5	(1)	(1)	(1)	14.1	13.8	13.8
Johnstown .....	86.3	87.9	87.9	(1)	(1)	(1)	4.5	4.8	4.6
Lancaster .....	209.0	209.3	211.9	.4	.4	.4	12.1	12.3	12.2
Philadelphia PMSA .....	2,220.1	2,232.3	2,252.9	(1)	(1)	(1)	84.6	86.9	85.8
Philadelphia City .....	679.0	669.1	679.5	(1)	(1)	(1)	10.9	10.7	11.1
Pittsburgh .....	1,063.8	1,055.6	1,064.6	4.3	4.4	4.4	52.5	49.7	50.6
Reading .....	161.7	163.1	164.8	(1)	(1)	(1)	7.2	7.8	7.7
Scranton-Wilkes-Barre-Hazleton .....	271.9	271.8	273.3	.5	.5	.5	10.7	11.1	10.7
Sharon .....	47.5	47.4	48.5	(1)	(1)	(1)	1.7	1.8	1.7
State College .....	68.4	65.8	70.0	(1)	(1)	(1)	2.9	2.6	2.5
Williamsport .....	53.8	54.7	54.9	(1)	(1)	(1)	2.5	2.6	2.5
York .....	162.0	160.2	163.5	.5	.4	.4	8.2	8.5	8.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>New York</b> .....	927.3	924.6	927.2	405.5	388.5	411.3	1,631.6	1,647.0	1,647.5
Albany-Schenectady-Troy .....	39.4	39.0	38.8	16.0	16.1	17.0	93.0	94.5	94.2
Binghamton .....	25.1	25.5	25.8	4.6	4.6	4.7	23.2	23.5	23.4
Buffalo-Niagara Falls .....	89.2	89.3	89.5	26.6	24.2	25.7	129.4	130.2	130.3
Dutchess County .....	17.5	17.6	17.8	4.1	3.8	3.9	20.6	20.9	20.9
Elmira .....	9.2	9.3	9.3	1.5	1.4	1.5	10.8	11.0	11.0
Glens Falls .....	8.4	8.2	8.1	1.5	1.6	1.5	11.8	12.6	11.7
Nassau-Suffolk .....	110.8	110.4	111.4	49.0	45.6	50.0	288.9	294.5	294.0
New York PMSA .....	322.6	318.1	320.2	233.1	221.5	232.3	674.9	677.9	686.8
New York City .....	269.3	265.0	266.9	206.9	197.3	206.6	562.8	565.4	574.0
Newburgh .....	12.1	11.7	11.7	6.7	6.2	6.6	33.0	33.7	33.4
Rochester .....	127.9	127.0	127.0	18.1	16.9	18.0	110.9	114.8	113.6
Rockland County .....	11.8	11.9	12.1	5.9	5.5	5.9	22.8	22.9	23.0
Syracuse .....	50.2	49.8	49.7	18.1	17.2	18.4	79.8	80.0	79.9
Utica-Rome .....	19.9	18.9	18.9	4.0	3.9	4.1	27.6	27.6	27.3
Westchester County .....	39.6	39.4	39.5	19.6	17.9	19.1	85.0	85.3	85.6
<b>North Carolina</b> .....	848.3	842.0	843.8	169.7	168.0	170.9	814.8	815.8	814.6
Asheville .....	19.9	19.7	19.6	4.8	4.8	4.8	25.2	25.8	25.5
Charlotte-Gastonia-Rock Hill .....	147.5	146.0	146.8	52.6	50.0	50.0	175.7	177.1	177.0
Greensboro-Winston-Salem-High Point .....	165.9	164.9	184.6	33.3	32.7	32.8	143.1	140.6	141.0
Raleigh-Durham-Chapel Hill .....	83.4	82.5	82.8	25.4	26.3	26.3	121.1	122.4	122.7
<b>North Dakota</b> .....	21.9	23.1	23.0	18.3	18.4	18.5	80.3	82.0	81.4
Bismarck .....	2.6	2.8	2.7	3.2	3.2	3.2	11.8	12.2	12.0
Fargo-Moorhead .....	7.8	8.2	8.4	5.4	5.3	5.4	26.6	26.7	27.1
Grand Forks .....	4.0	3.7	4.0	2.3	2.1	2.3	13.6	13.7	13.9
<b>Ohio</b> .....	1,088.5	1,085.4	1,086.9	233.9	227.8	236.3	1,306.3	1,329.6	1,325.7
Akron .....	64.7	63.0	63.3	14.8	14.7	14.8	79.9	81.1	81.0
Canton-Massillon .....	46.9	46.5	46.5	5.5	5.5	5.6	44.1	44.9	45.0
Cincinnati .....	141.6	141.2	141.4	43.4	42.8	44.0	215.3	217.8	217.8
Cleveland-Lorain-Elyria .....	224.7	224.7	224.0	45.9	43.6	45.5	266.7	274.1	273.4
Columbus .....	91.8	91.7	91.7	36.2	34.7	36.9	217.1	216.5	215.6
Dayton-Springfield .....	101.3	99.2	99.4	19.1	18.4	18.2	109.0	109.6	109.7
Hamilton-Middletown .....	21.0	21.1	21.0	4.5	4.7	4.8	30.6	30.5	30.4
Lima .....	20.1	19.7	19.6	2.9	2.9	2.9	18.3	19.0	19.0
Mansfield .....	22.6	22.7	22.8	4.2	3.9	4.0	16.0	18.7	18.2
Steubenville-Weirton .....	14.3	10.9	12.5	2.8	2.7	2.7	11.1	10.8	10.8
Toledo .....	60.8	61.9	61.6	14.3	12.5	14.0	78.2	78.5	79.4
Youngstown-Warren .....	59.3	59.4	59.2	9.9	10.1	10.3	61.7	62.9	62.0
<b>Oklahoma</b> .....	175.5	179.8	179.9	76.9	78.9	79.5	320.8	328.7	327.9
Enid .....	1.9	1.9	1.9	2.1	2.1	2.0	5.9	6.1	6.1
Lawton .....	3.8	3.7	3.6	1.8	1.8	1.8	9.0	9.0	9.0
Oklahoma City .....	52.1	53.7	53.8	23.6	23.9	24.7	119.3	121.3	121.3
Tulsa .....	56.4	58.2	58.2	27.8	29.7	30.2	86.7	90.7	90.0
<b>Oregon</b> .....	244.0	254.4	252.3	74.0	70.3	73.9	371.7	383.1	382.4
Eugene-Springfield .....	20.3	21.9	22.1	4.6	4.4	4.5	34.2	35.8	35.6
Medford-Ashland .....	9.3	9.5	9.3	3.2	3.2	3.3	20.3	20.1	21.2
Portland-Vancouver .....	143.4	149.3	150.1	50.7	49.7	51.7	222.2	232.0	232.2
Salem .....	21.1	21.5	20.5	3.4	3.2	3.3	28.4	28.3	28.8
<b>Pennsylvania</b> .....	931.8	938.5	937.4	274.3	255.2	274.9	1,212.5	1,237.7	1,237.9
Allentown Bethlehem-Easton .....	56.7	57.1	57.0	14.5	14.0	15.1	54.0	54.8	55.0
Altoona .....	10.4	10.2	10.1	4.3	4.2	4.2	15.1	15.4	15.3
Erie .....	33.9	34.1	34.0	4.8	4.5	4.6	28.8	29.4	29.0
Harrisburg-Lebanon-Carlisle .....	45.5	46.1	45.7	23.3	22.8	24.4	76.6	78.9	77.9
Johnstown .....	12.4	13.0	12.8	5.1	4.8	5.0	20.8	21.2	21.2
Lancaster .....	56.3	56.6	56.3	8.2	7.4	8.7	52.1	53.9	53.5
Philadelphia PMSA .....	307.2	308.7	308.8	104.6	99.6	106.9	492.6	496.4	498.3
Philadelphia City .....	60.8	60.6	60.6	32.9	29.8	32.9	114.1	113.9	114.6
Pittsburgh .....	134.1	135.1	134.6	65.5	61.9	65.2	257.9	257.0	256.0
Reading .....	43.3	44.1	43.7	7.4	7.1	7.6	37.6	38.7	38.5
Scranton-Wilkes-Barre-Hazleton .....	55.2	54.0	54.1	14.7	13.9	14.7	65.1	65.1	64.9
Sharon .....	11.0	11.3	11.2	2.0	2.1	2.2	12.2	12.8	12.6
State College .....	8.9	8.9	8.9	2.0	1.9	2.1	12.9	12.4	13.2
Williamsport .....	13.0	13.4	13.3	1.9	1.8	2.0	12.7	13.0	13.0
York .....	48.1	49.2	49.2	7.5	6.0	7.4	39.3	39.5	39.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>New York</b> .....	724.6	733.0	728.2	2,630.6	2,688.2	2,702.3	1,338.5	1,330.6	1,335.1
Albany-Schenectady-Troy .....	25.9	26.1	25.8	128.0	128.9	128.2	106.5	102.6	107.1
Binghamton .....	3.9	4.1	4.0	29.3	30.7	30.8	21.5	19.2	22.2
Buffalo-Niagara Falls .....	28.2	29.1	29.1	159.7	158.3	158.9	86.2	82.6	85.9
Dutchess County .....	4.3	4.4	4.3	33.2	33.1	33.1	22.1	20.9	22.4
Elmira .....	1.4	1.4	1.3	10.5	10.5	10.5	6.9	7.1	7.3
Glens Falls .....	2.3	2.5	2.5	14.8	17.4	15.2	9.3	8.6	9.2
Nassau-Suffolk .....	79.1	79.4	78.8	356.3	368.4	366.2	171.4	167.9	175.1
New York PMSA .....	507.1	512.4	509.3	1,405.0	1,434.9	1,450.1	600.4	609.6	595.0
New York City .....	475.1	479.7	477.0	1,230.4	1,254.7	1,272.0	521.7	531.1	516.2
Newburgh .....	5.4	5.6	5.4	31.6	32.6	31.3	25.4	24.4	26.2
Rochester .....	23.0	23.9	23.2	157.3	158.6	157.1	73.7	69.6	74.1
Rockland County .....	5.0	5.1	5.0	30.3	31.3	30.8	19.1	18.1	19.2
Syracuse .....	18.2	18.2	18.0	99.7	94.5	99.3	57.6	56.2	59.2
Utica-Rome .....	7.7	7.8	7.7	37.5	38.9	39.2	27.2	26.0	27.0
Westchester County .....	25.8	26.5	26.1	138.2	141.9	141.1	55.6	58.4	55.4
<b>North Carolina</b> .....	155.8	163.3	162.7	835.8	873.6	876.8	566.1	532.0	579.5
Asheville .....	3.1	3.2	3.2	30.4	31.0	31.6	14.5	12.8	14.3
Charlotte-Gastonia-Rock Hill .....	48.7	49.8	49.8	178.5	181.3	181.3	86.3	85.8	89.2
Greensboro--Winston-Salem--High Point .....	31.1	32.2	32.2	147.7	148.3	148.6	64.7	57.2	58.9
Raleigh-Durham-Chapel Hill .....	27.2	27.9	28.2	172.8	175.8	174.8	116.4	113.4	122.8
<b>North Dakota</b> .....	14.6	15.4	15.4	85.7	88.5	88.1	71.0	66.5	71.9
Bismarck .....	2.3	2.4	2.4	15.3	15.6	15.5	9.7	9.8	10.4
Fargo-Moorhead .....	5.8	6.4	6.4	26.6	28.0	27.7	12.9	12.6	14.2
Grand Forks .....	1.5	1.5	1.4	13.1	14.6	14.6	12.2	10.6	11.9
<b>Ohio</b> .....	278.5	284.5	282.0	1,439.6	1,461.6	1,462.3	735.0	709.9	742.6
Akron .....	12.6	12.6	12.6	88.2	90.4	89.4	47.8	41.7	47.7
Canton-Massillon .....	5.8	5.9	5.9	48.5	50.0	49.6	19.4	18.0	19.5
Cincinnati .....	52.4	53.4	53.3	236.2	239.9	238.6	101.1	95.8	99.8
Cleveland-Lorain-Elyria .....	72.4	74.8	73.5	329.1	335.4	336.5	140.9	137.0	142.3
Columbus .....	68.3	69.4	69.0	223.4	230.6	230.0	128.0	133.2	132.4
Dayton-Springfield .....	17.9	18.0	18.2	134.0	135.9	136.3	70.9	67.3	69.7
Hamilton-Middletown .....	4.4	4.3	4.2	25.6	25.6	25.7	17.9	17.6	18.1
Lima .....	2.1	2.2	2.3	20.0	20.1	19.8	9.9	9.9	10.3
Mansfield .....	2.9	2.7	2.7	19.4	20.1	20.5	10.1	10.3	10.1
Stuebenville-Weirton .....	1.4	1.5	1.5	12.7	13.0	12.8	6.0	6.0	6.3
Toledo .....	10.9	11.0	10.9	88.0	87.2	87.1	45.0	40.1	45.2
Youngstown-Warren .....	9.3	9.4	9.3	62.6	61.5	61.7	29.4	27.5	30.0
<b>Oklahoma</b> .....	67.6	69.9	69.4	371.9	387.6	389.3	269.9	263.5	272.7
Enid .....	1.0	1.0	1.0	6.7	6.5	6.8	4.3	4.1	4.2
Lawton .....	1.8	1.8	1.8	8.2	8.8	8.7	11.4	11.4	11.8
Oklahoma City .....	27.8	28.5	28.5	145.8	148.1	148.9	100.6	95.0	101.9
Tulsa .....	20.0	20.7	20.5	112.9	114.6	115.3	41.1	41.1	41.8
<b>Oregon</b> .....	91.7	95.7	94.9	396.7	407.6	410.4	237.5	226.1	238.4
Eugene-Springfield .....	7.0	7.2	7.2	36.0	37.3	37.6	23.0	21.1	23.0
Medford-Ashland .....	3.1	3.1	3.1	18.0	18.6	18.8	9.9	9.3	10.1
Portland-Vancouver .....	64.4	67.0	66.5	244.0	252.3	252.9	108.7	102.6	109.0
Salem .....	6.4	6.5	6.4	31.9	32.5	33.5	34.7	35.3	35.3
<b>Pennsylvania</b> .....	311.8	316.5	313.9	1,670.7	1,714.2	1,724.8	713.0	678.9	722.9
Allentown Bethlehem-Easton .....	13.3	13.3	13.1	81.0	81.9	82.6	29.7	27.9	29.5
Altoona .....	2.1	2.0	2.0	15.4	15.8	15.8	7.4	7.5	7.6
Erie .....	5.6	5.6	5.5	36.1	36.6	37.3	15.1	13.5	15.4
Harrisburg-Lebanon-Carlisle .....	25.4	24.8	24.7	92.3	99.0	99.3	70.1	64.1	65.7
Johnstown .....	4.5	4.7	4.7	25.6	26.6	26.3	13.4	13.0	13.3
Lancaster .....	9.0	9.4	9.2	52.6	53.0	53.3	18.3	16.3	18.3
Philadelphia PMSA .....	154.6	157.0	154.9	779.7	797.2	803.9	296.8	286.5	294.3
Philadelphia City .....	54.2	54.0	53.5	279.8	274.5	282.7	128.3	125.6	124.1
Pittsburgh .....	62.3	62.3	61.9	367.5	371.4	373.3	119.7	113.8	118.6
Reading .....	9.1	9.3	9.2	38.8	40.3	39.8	18.3	15.8	18.1
Scranton--Wilkes-Barre--Hazleton .....	13.7	14.4	14.2	77.7	79.9	80.3	34.3	32.9	33.9
Sharon .....	1.4	1.4	1.4	13.9	13.0	14.2	5.3	5.0	5.2
State College .....	2.2	2.3	2.3	13.9	14.3	14.4	25.6	23.4	26.6
Williamsport .....	2.3	2.3	2.3	14.4	14.8	14.7	7.0	6.8	7.1
York .....	4.9	5.1	5.2	37.3	37.0	37.7	16.2	14.5	15.7

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		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
Rhode Island .....	448.9	448.8	452.1	.2	.2	.2	14.3	16.4	15.8
Providence-Fall River-Warwick .....	500.1	497.0	504.5	.2	.2	.2	16.5	17.5	17.4
<b>South Carolina</b> .....	<b>1,688.0</b>	<b>1,704.0</b>	<b>1,717.9</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>	<b>95.3</b>	<b>100.0</b>	<b>99.7</b>
Charleston-North Charleston .....	212.9	217.1	218.5	(1)	(1)	(1)	13.9	14.6	14.6
Columbia .....	273.3	277.0	280.1	(1)	(1)	(1)	14.6	15.6	15.6
Greenville-Spartanburg-Anderson .....	453.3	454.9	461.6	(1)	(1)	(1)	29.0	30.0	29.9
<b>South Dakota</b> .....	<b>352.4</b>	<b>355.6</b>	<b>355.1</b>	<b>2.4</b>	<b>2.6</b>	<b>2.5</b>	<b>16.1</b>	<b>17.4</b>	<b>16.7</b>
Rapid City .....	48.8	49.2	48.3	(1)	(1)	(1)	3.1	3.5	3.5
Sioux Falls .....	99.4	101.9	102.2	(1)	(1)	(1)	5.0	5.3	5.1
<b>Tennessee</b> .....	<b>2,563.5</b>	<b>2,549.3</b>	<b>2,581.5</b>	<b>4.7</b>	<b>4.7</b>	<b>4.7</b>	<b>116.7</b>	<b>122.9</b>	<b>122.9</b>
Chattanooga .....	217.5	213.4	215.8	(1)	(1)	(1)	9.6	9.7	9.8
Johnson City-Kingsport-Bristol .....	195.6	193.1	195.3	(1)	(1)	(1)	10.4	9.9	9.9
Knoxville .....	320.5	313.8	316.6	.5	.5	.5	20.2	18.8	18.8
Memphis .....	549.1	544.5	550.3	(1)	(1)	(1)	24.3	24.3	24.4
Nashville .....	812.6	610.3	619.8	(1)	(1)	(1)	30.3	31.1	31.1
<b>Texas</b> .....	<b>8,306.9</b>	<b>8,470.9</b>	<b>8,524.1</b>	<b>157.5</b>	<b>163.6</b>	<b>163.7</b>	<b>444.4</b>	<b>465.1</b>	<b>465.4</b>
Abilene .....	54.1	54.0	55.4	1.4	1.4	1.4	2.2	2.3	2.3
Amarillo .....	92.4	95.5	96.0	.6	.6	.6	4.3	4.9	4.8
Austin-San Marcos .....	543.8	543.6	551.4	1.2	1.2	1.2	28.0	27.6	27.6
Beaumont-Port Arthur .....	151.5	152.1	153.8	.7	.7	.7	12.7	13.2	13.3
Brazoria .....	72.8	72.9	74.0	1.4	1.4	1.4	8.8	8.5	8.2
Brownsville-Harlingen-San Benito .....	94.0	97.2	97.6	(1)	(1)	(1)	3.0	3.4	3.3
Bryan-College Station .....	65.9	64.4	67.6	.7	.8	.8	2.8	3.1	3.0
Corpus Christi .....	152.9	155.8	156.9	2.4	2.5	2.5	13.3	13.8	13.8
Dallas .....	1,880.4	1,737.1	1,747.8	11.5	12.4	12.2	75.3	82.7	82.4
El Paso .....	237.8	239.3	240.0	(1)	(1)	(1)	11.0	11.5	11.5
Ft. Worth-Arlington .....	887.0	704.0	711.2	4.6	4.6	4.6	33.4	36.3	35.8
Galveston-Texas City .....	86.8	89.8	89.5	.8	.8	.8	4.7	4.6	4.6
Houston .....	1,813.9	1,858.2	1,873.2	65.3	68.0	68.0	129.3	134.2	135.6
Killeen Temple .....	94.7	96.6	97.4	(1)	(1)	(1)	3.8	4.5	4.4
Laredo .....	56.8	59.6	60.4	3.1	3.5	3.4	2.1	2.1	2.1
Longview-Marshall .....	86.0	85.0	85.7	3.2	3.2	3.3	3.9	3.9	3.9
Lubbock .....	110.0	111.9	113.4	.1	.1	.1	4.1	4.3	4.2
McAllen-Edinburg-Mission .....	125.2	130.2	132.5	1.0	1.1	1.1	6.5	6.9	6.9
Odessa Midland .....	98.6	96.8	99.6	12.1	12.2	12.4	5.7	5.7	5.9
San Angelo .....	42.6	42.1	42.1	.7	.7	.7	1.8	2.0	1.9
San Antonio .....	636.9	648.7	656.3	1.9	1.9	2.0	32.5	34.5	34.3
Sherman-Denison .....	42.3	42.0	42.4	(1)	(1)	(1)	1.8	2.1	2.1
Texarkana .....	50.8	49.7	50.3	(1)	(1)	(1)	2.4	2.3	2.3
Tyler .....	73.9	75.6	76.0	1.4	1.6	1.6	2.9	2.8	2.7
Victoria .....	33.5	34.3	34.8	1.5	1.6	1.6	2.0	2.2	2.2
Waco .....	94.2	93.8	95.9	(1)	(1)	(1)	4.1	4.7	4.5
Wichita Falls .....	58.2	58.0	58.6	1.1	1.1	1.1	2.2	2.3	2.2
<b>Utah</b> .....	<b>971.5</b>	<b>996.9</b>	<b>1,012.1</b>	<b>8.1</b>	<b>8.1</b>	<b>8.3</b>	<b>64.4</b>	<b>70.8</b>	<b>71.3</b>
Provo-Orem .....	133.4	133.4	139.1	(1)	(1)	(1)	9.5	10.1	10.0
Salt Lake City-Ogden .....	852.8	673.2	679.2	3.0	3.0	3.0	42.2	47.0	46.3
<b>Vermont</b> .....	<b>276.5</b>	<b>274.5</b>	<b>281.7</b>	<b>.6</b>	<b>.8</b>	<b>.7</b>	<b>14.8</b>	<b>13.7</b>	<b>13.5</b>
Barre-Montpelier .....	31.1	28.4	29.6	(1)	(1)	(1)	1.6	1.3	1.4
Burlington .....	98.3	97.1	100.0	(1)	(1)	(1)	5.1	5.1	4.9
<b>Virginia</b> .....	<b>3,159.8</b>	<b>3,208.0</b>	<b>3,233.5</b>	<b>10.7</b>	<b>10.9</b>	<b>10.9</b>	<b>182.1</b>	<b>189.7</b>	<b>187.4</b>
Bristol .....	37.1	36.4	37.4	(1)	(1)	(1)	1.7	1.6	1.5
Charlottesville .....	78.9	79.4	80.5	(1)	(1)	(1)	4.3	4.7	4.6
Danville .....	45.0	44.6	45.4	(1)	(1)	(1)	2.3	2.5	2.5
Lynchburg .....	96.8	97.6	97.7	(1)	(1)	(1)	5.6	6.3	6.2
Norfolk-Virginia Beach-Newport News .....	655.5	658.7	663.1	(1)	(1)	(1)	41.1	42.9	42.4
Northern Virginia .....	964.6	998.1	1,004.9	.7	.7	.7	54.7	58.8	58.7
Richmond-Petersburg .....	506.7	513.4	517.2	.8	.7	.7	32.0	33.2	32.9
Roanoke .....	140.8	141.7	144.2	(1)	(1)	(1)	8.2	8.9	8.9
<b>Washington</b> .....	<b>2,456.7</b>	<b>2,507.7</b>	<b>2,545.7</b>	<b>3.6</b>	<b>3.7</b>	<b>3.7</b>	<b>139.1</b>	<b>144.0</b>	<b>144.8</b>
Seattle-Bellevue-Everett .....	1,246.0	1,292.2	1,314.9	.8	.8	.8	65.6	67.8	69.9
Spokane .....	183.8	183.7	186.8	(1)	(1)	(1)	12.1	12.1	12.0
Tacoma .....	223.8	227.8	231.2	.2	.2	.2	13.4	13.4	13.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Rhode Island</b> .....	83.1	81.0	81.7	15.3	14.3	15.3	101.1	102.6	101.1
Providence-Fall River-Warwick .....	105.1	103.0	103.7	17.6	16.1	17.6	115.0	115.3	116.0
<b>South Carolina</b> .....	362.5	358.1	357.1	74.1	73.4	75.3	403.6	415.2	413.4
Charleston-North Charleston .....	20.6	20.6	20.6	10.9	11.0	11.1	54.4	56.2	55.6
Columbia .....	25.5	25.2	25.2	12.5	11.7	12.4	63.8	66.4	66.5
Greenville-Spartanburg-Anderson .....	125.0	123.6	123.4	19.6	19.9	20.3	113.9	117.5	117.7
<b>South Dakota</b> .....	47.9	49.5	48.7	16.5	15.1	15.8	88.1	90.7	88.0
Rapid City .....	4.1	4.7	4.7	2.0	1.9	2.1	14.2	15.8	14.7
Sioux Falls .....	13.3	13.9	13.9	6.3	5.9	6.1	25.4	25.8	25.3
<b>Tennessee</b> .....	523.4	513.1	513.0	143.5	137.1	143.3	604.4	609.1	611.2
Chattanooga .....	43.6	43.4	43.5	8.3	8.0	8.4	52.1	51.5	51.5
Johnson City-Kingsport-Bristol .....	53.5	52.2	51.5	8.0	7.7	7.7	43.7	43.8	43.7
Knoxville .....	48.4	47.8	47.8	14.3	12.7	13.9	81.9	82.7	82.8
Memphis .....	63.5	62.4	63.2	61.6	59.3	60.5	140.4	143.9	144.3
Nashville .....	96.7	94.3	94.3	31.4	28.6	31.7	148.2	149.7	150.3
<b>Texas</b> .....	1,061.9	1,074.4	1,075.8	490.7	490.8	502.5	2,000.9	2,050.4	2,048.8
Abilene .....	3.2	3.3	3.3	2.7	2.4	2.5	14.2	14.5	14.5
Amarillo .....	9.4	9.7	9.7	5.6	5.1	5.2	26.0	27.5	27.5
Austin-San Marcos .....	73.2	72.9	73.1	18.0	17.7	18.2	116.6	119.3	119.8
Beaumont-Port Arthur .....	24.4	24.8	24.8	8.0	7.9	7.9	35.6	36.0	36.0
Brazoria .....	16.6	16.7	16.7	2.8	2.9	2.9	14.1	14.6	14.5
Brownsville-Harlingen-San Benito .....	12.6	12.6	12.7	4.2	4.1	4.2	23.2	24.2	24.2
Bryan-College Station .....	3.6	3.7	3.8	1.3	1.3	1.4	14.7	14.8	15.1
Corpus Christi .....	13.6	13.6	13.6	6.3	6.2	6.4	35.5	36.2	35.8
Dallas .....	238.6	242.4	242.5	112.7	118.2	122.7	418.5	434.9	435.2
El Paso .....	45.5	43.7	43.6	13.1	12.8	12.7	56.6	57.1	57.0
Ft. Worth-Arlington .....	107.9	109.8	110.1	62.4	63.5	65.8	173.8	180.6	180.3
Galveston-Texas City .....	8.0	8.1	8.2	4.1	4.3	4.4	18.3	19.5	19.0
Houston .....	199.0	203.9	204.1	125.9	126.8	130.0	421.2	434.5	435.0
Killeen Temple .....	9.8	9.2	9.1	3.5	3.4	3.5	22.5	23.0	22.9
Laredo .....	1.4	1.5	1.6	8.8	9.8	9.9	15.4	16.4	16.4
Longview-Marshall .....	18.7	18.3	18.2	3.9	3.9	3.8	21.7	21.7	21.7
Lubbock .....	7.4	7.6	7.8	5.7	5.5	5.6	31.7	32.8	33.2
McAllen-Edinburg-Mission .....	12.8	12.6	12.7	4.4	4.5	4.6	34.0	38.1	38.7
Odessa Midland .....	8.8	7.0	7.1	3.9	4.1	4.0	26.8	26.5	26.5
San Angelo .....	5.4	5.4	5.3	2.2	2.1	2.2	10.3	9.9	9.8
San Antonio .....	49.5	50.0	50.1	30.5	31.0	31.9	157.2	162.5	162.0
Sherman-Denison .....	10.6	10.3	10.2	1.6	1.5	1.5	9.5	9.3	9.2
Texarkana .....	6.1	6.0	6.0	2.2	2.1	2.1	13.1	13.1	13.0
Tyler .....	11.1	11.1	11.1	3.5	3.6	3.7	18.9	19.3	19.3
Victoria .....	3.0	3.3	3.1	1.5	1.4	1.4	9.2	9.4	9.6
Waco .....	16.7	16.3	16.3	3.7	3.6	3.7	21.3	21.6	21.9
Wichita Falls .....	8.1	8.1	8.1	2.8	2.8	2.9	13.5	13.8	13.8
<b>Utah</b> .....	130.4	132.7	132.5	54.9	55.1	57.1	233.6	242.8	241.7
Provo-Orem .....	18.9	19.9	20.1	2.3	2.3	2.4	29.4	30.7	31.0
Salt Lake City-Ogden .....	82.1	83.0	83.0	42.7	42.2	44.0	159.7	165.9	165.7
<b>Vermont</b> .....	46.3	47.0	47.2	12.2	11.9	12.2	65.1	67.2	66.7
Barre-Montpelier .....	3.5	3.2	3.3	1.1	.9	1.1	8.8	6.9	6.7
Burlington .....	17.9	18.5	18.5	4.7	4.8	4.6	22.1	22.0	21.4
<b>Virginia</b> .....	398.9	396.3	395.3	163.0	164.9	169.3	718.7	736.1	736.4
Bristol .....	10.1	10.1	10.1	1.3	1.0	1.2	9.9	9.9	9.9
Charlottesville .....	8.2	8.3	8.3	2.3	2.2	2.3	16.1	16.4	16.7
Danville .....	16.3	15.7	15.5	1.1	1.0	1.0	9.5	9.7	9.7
Lynchburg .....	25.8	25.3	24.9	3.6	3.7	3.7	21.5	21.8	21.9
Norfolk-Virginia Beach-Newport News .....	67.4	65.9	66.1	31.9	32.7	33.3	157.8	158.3	158.7
Northem Virginia .....	41.0	42.2	42.2	58.1	60.2	60.6	211.7	219.5	217.6
Richmond-Petersburg .....	59.7	59.6	59.7	26.5	25.8	26.8	120.7	123.1	122.9
Roanoke .....	19.6	19.0	19.2	8.5	8.1	8.5	37.9	36.9	38.8
<b>Washington</b> .....	354.2	376.7	379.3	125.5	124.1	127.9	602.7	616.0	617.4
Seattle-Bellevue-Everett .....	199.0	222.9	225.4	75.6	75.3	76.1	299.1	309.3	310.1
Spokane .....	22.6	22.4	22.2	8.2	8.0	8.4	48.1	48.3	48.3
Tacoma .....	25.0	28.1	27.8	10.0	10.6	10.6	55.1	56.8	57.2

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		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>Rhode Island</b> .....	25.6	26.1	26.1	148.6	148.5	149.5	60.7	57.7	62.4
Providence-Fall River-Warwick .....	27.7	28.5	28.5	155.6	157.0	157.3	62.4	59.4	63.8
<b>South Carolina</b> .....	73.2	75.4	74.9	379.2	392.9	392.9	298.3	287.2	302.8
Charleston-North Charleston .....	8.5	8.7	8.6	56.4	58.4	58.5	48.2	47.6	49.5
Columbia .....	19.8	20.1	20.0	67.1	70.6	70.7	70.0	67.4	69.7
Greenville-Spartanburg-Anderson .....	15.4	15.6	15.5	96.2	99.1	100.2	54.2	49.2	54.6
<b>South Dakota</b> .....	20.0	21.3	21.4	92.1	94.1	92.8	69.3	64.9	69.2
Rapid City .....	1.7	1.8	1.8	14.6	14.9	14.4	7.1	6.6	7.1
Sioux Falls .....	10.7	11.9	12.1	29.0	30.4	30.1	9.7	8.7	9.6
<b>Tennessee</b> .....	118.5	120.7	120.4	668.9	678.0	677.2	385.4	365.7	388.8
Chattanooga .....	14.3	14.8	14.7	54.1	53.5	53.4	35.5	32.5	34.5
Johnson City-Kingsport-Bristol .....	5.8	5.7	5.7	45.4	46.3	46.9	28.8	27.5	29.9
Knoxville .....	13.6	13.5	13.5	86.3	84.7	84.5	55.3	52.9	55.0
Memphis .....	28.5	29.0	28.8	152.8	153.1	153.1	78.0	72.5	76.0
Nashville .....	36.9	38.0	38.0	191.5	194.8	195.2	77.6	73.8	79.2
<b>Texas</b> .....	447.3	457.8	456.8	2,258.8	2,340.0	2,339.6	1,445.4	1,428.6	1,471.5
Abilene .....	2.0	2.2	2.2	18.6	18.2	19.1	9.8	9.7	10.1
Amarillo .....	4.7	4.9	4.8	25.3	26.8	26.4	16.8	16.2	17.0
Austin-San Marcos .....	28.9	29.8	29.6	152.4	155.3	155.8	125.1	119.8	126.1
Beaumont-Port Arthur .....	4.9	5.0	5.0	39.5	39.9	39.7	25.7	24.6	26.4
Brazoria .....	1.8	1.8	1.8	13.6	14.1	14.3	13.7	12.9	14.2
Brownsville-Harlingen-San Benito .....	3.8	3.7	3.6	25.2	27.0	26.2	22.2	22.2	23.4
Bryan-College Station .....	2.4	2.4	2.4	13.8	14.2	14.2	26.6	24.3	26.9
Corpus Christi .....	8.5	6.6	6.5	43.5	47.3	47.4	31.8	29.4	30.9
Dallas .....	131.7	133.9	133.8	499.3	523.8	524.1	192.8	188.8	194.7
El Paso .....	8.7	8.8	8.8	52.1	55.1	54.8	50.4	50.3	51.6
Ft. Worth-Arlington .....	30.9	32.6	32.7	183.5	188.9	189.1	90.5	87.7	93.0
Galveston-Texas City .....	5.4	5.5	5.5	17.5	18.3	18.2	28.0	28.7	28.8
Houston .....	96.4	98.2	98.2	535.7	555.3	553.9	241.1	237.3	248.4
Killeen Temple .....	3.9	4.1	4.1	24.8	26.6	26.7	26.4	25.8	26.7
Laredo .....	2.0	2.2	2.2	9.9	10.5	10.6	14.1	13.6	14.2
Longview-Marshall .....	3.0	3.1	3.1	20.1	20.1	20.1	11.5	10.8	11.6
Lubbock .....	5.3	5.5	5.5	31.9	32.7	32.8	23.8	23.4	24.2
McAllen-Edinburg-Mission .....	4.5	4.8	4.8	27.4	29.8	30.0	34.6	34.4	35.7
Odessa Midland .....	3.5	3.5	3.5	22.4	23.8	23.4	17.4	16.0	16.8
San Angelo .....	1.7	1.7	1.7	11.8	12.0	11.9	8.7	8.3	8.6
San Antonio .....	42.4	44.3	44.5	191.2	199.1	199.3	131.7	125.4	132.2
Sherman-Denison .....	2.0	2.1	2.1	11.3	11.3	11.7	5.5	5.4	5.6
Texarkana .....	1.7	1.7	1.7	13.4	13.7	13.7	11.7	10.8	11.5
Tyler .....	3.8	3.9	3.9	21.4	22.7	22.7	10.9	10.6	11.0
Victoria .....	1.7	1.6	1.7	8.5	9.0	8.9	6.1	5.8	6.1
Waco .....	5.8	5.8	5.7	27.8	27.2	28.7	15.0	14.6	15.1
Wichita Falls .....	2.2	2.2	2.2	15.7	16.0	15.9	12.6	11.7	12.4
<b>Utah</b> .....	50.8	52.2	52.1	284.3	277.3	279.8	165.0	157.9	169.3
Provo-Orem .....	3.7	4.0	4.0	51.8	50.4	53.3	17.8	16.0	18.3
Salt Lake City-Ogden .....	41.8	43.2	43.3	176.0	185.4	186.1	105.3	103.5	107.8
<b>Vermont</b> .....	12.2	12.9	12.5	81.5	83.8	83.1	45.8	37.4	45.8
Barre-Montpelier .....	2.5	2.6	2.5	8.0	7.7	7.8	7.6	5.8	7.0
Burlington .....	4.6	5.0	5.0	28.9	30.2	30.4	15.0	11.5	15.2
<b>Virginia</b> .....	163.2	168.7	166.9	831.9	967.0	970.9	591.3	572.4	596.4
Bristol .....	1.1	1.2	1.2	7.6	7.6	7.9	5.4	5.0	5.6
Charlottesville .....	3.8	4.1	4.1	19.4	19.9	20.0	24.8	23.8	24.5
Danville .....	1.4	1.4	1.4	8.7	9.1	9.4	5.7	5.2	5.9
Lynchburg .....	4.1	4.5	4.4	23.7	23.5	24.4	12.3	12.7	12.2
Norfolk-Virginia Beach-Newport News .....	29.8	31.9	31.4	192.1	197.2	195.9	135.4	129.8	135.3
Northern Virginia .....	52.9	52.8	52.2	369.8	393.2	395.7	175.7	170.7	177.0
Richmond-Petersburg .....	43.0	44.2	43.9	128.9	132.7	134.5	95.1	94.1	95.8
Roanoke .....	9.0	8.9	8.8	40.6	41.3	42.7	17.0	16.6	17.3
<b>Washington</b> .....	124.9	127.8	127.4	864.9	689.5	696.1	441.8	425.9	449.1
Seattle-Bellevue-Everett .....	75.8	78.1	78.1	356.0	370.6	375.8	174.1	167.4	178.7
Spokane .....	10.6	11.0	10.8	55.1	54.9	55.7	29.1	27.0	29.4
Tacoma .....	11.5	11.4	11.4	62.9	62.7	64.9	45.7	44.4	45.7

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		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>West Virginia</b> .....	705.3	711.3	714.4	26.0	24.6	24.6	39.3	39.8	39.2
Charleston .....	129.3	128.4	128.2	2.0	2.0	2.0	7.6	7.5	7.5
Huntington-Ashland .....	119.0	118.8	120.3	1.4	1.4	1.4	6.5	6.0	5.9
Parkersburg-Marietta .....	69.5	68.3	69.4	.4	.4	.4	4.7	5.0	4.9
Wheeling .....	65.2	64.7	63.9	1.5	1.7	1.7	2.7	3.0	3.1
<b>Wisconsin</b> .....	2,638.3	2,661.9	2,681.1	2.8	2.9	2.8	117.6	121.7	119.5
Appleton-Oshkosh-Neenah .....	191.7	193.0	194.6	(1)	(1)	(1)	12.0	12.7	13.0
Eau Claire .....	69.7	70.8	71.7	(1)	(1)	(1)	3.2	3.4	3.4
Green Bay .....	132.6	132.9	133.3	(1)	(1)	(1)	7.2	7.7	7.6
Janesville-Beloit .....	66.5	66.5	67.0	(1)	(1)	(1)	2.8	2.7	2.7
Kenosha .....	49.3	48.6	49.1	(1)	(1)	(1)	2.3	2.2	2.2
La Crosse .....	68.2	68.4	69.9	(1)	(1)	(1)	2.9	3.3	3.3
Madison .....	265.1	268.6	271.8	(1)	(1)	(1)	12.8	14.2	13.9
Milwaukee-Waukesha .....	819.0	826.3	834.3	(1)	(1)	(1)	30.9	32.2	31.8
Racine .....	80.9	62.7	82.9	(1)	(1)	(1)	3.3	3.5	3.5
Sheboygan .....	58.3	60.2	60.1	(1)	(1)	(1)	2.4	2.7	2.6
Wausau .....	62.5	64.4	64.2	(1)	(1)	(1)	2.9	2.8	2.6
<b>Wyoming</b> .....	230.3	226.7	230.0	16.4	16.3	16.3	16.4	16.4	16.4
Casper .....	30.2	30.4	30.9	1.9	1.9	2.0	1.8	2.1	2.0
<b>Puerto Rico</b> .....	943.9	946.6	950.8	1.0	1.0	1.0	52.3	56.8	57.5
Caguas .....	60.9	63.6	64.2	(1)	(1)	(1)	2.9	4.3	4.3
Mayaguez .....	65.4	67.0	68.5	(1)	(1)	(1)	3.6	3.8	4.0
Ponce .....	72.2	73.0	73.8	(1)	(1)	(1)	4.3	4.3	4.3
San Juan-Bayamon .....	597.7	595.2	595.6	.5	.5	.5	36.4	38.2	38.3
<b>Virgin Islands</b> .....	40.6	42.5	41.5	(1)	(1)	(1)	2.7	2.3	2.3

See footnotes at end of table.



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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>West Virginia</b> .....	82.4	82.4	83.1	39.1	38.0	38.5	162.9	165.0	165.3
Charleston .....	9.8	10.0	10.0	9.1	8.9	9.1	32.1	31.2	31.0
Huntington-Ashland .....	17.3	17.0	18.9	6.9	6.8	6.9	31.5	31.9	31.9
Parkersburg-Marietta .....	13.4	12.8	12.8	2.9	2.8	2.9	17.4	17.6	17.6
Wheeling .....	6.5	6.0	6.1	3.0	2.8	2.8	16.6	16.4	16.1
<b>Wisconsin</b> .....	607.5	616.8	610.4	123.0	115.8	123.6	599.2	613.6	609.7
Appleton-Oshkosh-Neenah .....	59.4	59.7	59.1	7.2	7.1	7.4	40.7	41.0	41.6
Eau Claire .....	11.2	12.2	12.1	3.6	3.3	3.5	19.0	19.3	19.0
Green Bay .....	28.1	28.9	28.5	9.3	9.4	9.7	30.9	31.8	31.6
Janesville-Beloit .....	21.3	21.6	21.8	2.3	2.3	2.4	15.1	14.9	14.8
Kenosha .....	11.2	11.3	11.5	1.7	1.4	1.6	12.9	13.1	12.9
La Crosse .....	11.6	11.9	11.9	3.1	3.0	3.1	19.6	19.7	20.0
Madison .....	28.8	29.4	28.9	8.8	8.8	9.0	58.1	57.9	58.2
Milwaukee-Waukesha .....	175.2	176.4	175.9	38.8	35.3	38.5	176.4	179.9	177.8
Racine .....	25.1	25.1	25.1	3.1	3.1	3.3	16.5	17.0	16.8
Sheboygan .....	23.7	24.8	24.3	1.7	1.5	1.7	10.7	11.2	11.1
Wausau .....	17.7	18.6	18.3	3.3	3.1	3.4	15.0	15.8	15.6
<b>Wyoming</b> .....	10.9	10.9	10.8	14.1	14.0	14.0	54.2	55.8	54.5
Casper .....	1.5	1.4	1.4	1.6	1.6	1.8	6.7	6.7	8.8
<b>Puerto Rico</b> .....	145.7	149.2	149.2	23.5	22.8	23.9	189.3	192.9	193.5
Caguas .....	15.1	16.0	16.2	.7	.7	.7	13.3	14.0	14.3
Mayaguez .....	16.4	17.8	18.3	.7	.8	.8	10.9	11.4	11.4
Ponce .....	10.4	10.7	10.6	2.1	2.7	2.9	12.5	12.4	12.4
San Juan-Bayamon .....	69.0	67.9	67.7	18.1	17.2	17.9	126.6	127.9	128.4
<b>Virgin Islands</b> .....	2.3	2.2	2.2	2.3	2.4	2.4	6.9	9.5	9.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>West Virginia</b> .....	27.4	27.7	27.7	193.4	198.9	199.6	134.8	134.9	136.4
Charleston .....	7.0	7.3	7.4	39.0	39.0	38.9	22.7	22.5	22.3
Huntington-Ashland .....	3.8	3.7	3.8	31.4	33.2	33.4	20.2	18.8	20.1
Parkersburg-Marietta .....	2.5	2.6	2.6	17.7	18.4	18.8	10.5	8.7	9.4
Wheeling .....	2.7	2.8	2.7	22.2	21.9	22.0	10.0	10.1	9.4
<b>Wisconsin</b> .....	138.5	143.7	142.6	668.7	692.9	692.7	380.9	354.6	379.9
Appleton-Oshkosh-Neenah .....	9.2	9.4	9.4	41.5	42.4	42.3	21.6	20.6	21.8
Eau Claire .....	2.5	2.5	2.5	18.3	19.8	19.7	11.9	10.3	11.6
Green Bay .....	9.9	9.3	9.1	31.9	31.7	32.2	15.3	14.1	14.6
Janesville-Beloit .....	1.8	1.8	1.7	14.9	14.6	15.0	8.4	8.3	8.8
Kenosha .....	1.6	1.6	1.5	12.2	12.3	12.4	7.5	6.8	7.1
La Crosse .....	2.7	2.9	2.8	19.0	19.0	19.3	9.3	8.6	9.5
Madison .....	19.9	20.2	19.9	66.1	69.0	68.9	70.6	69.2	73.1
Milwaukee-Waukesha .....	57.1	59.1	58.8	252.1	261.8	263.6	88.6	81.8	87.9
Racine .....	2.3	2.4	2.3	21.3	22.5	22.6	9.3	9.1	9.3
Sheboygan .....	2.2	2.4	2.4	11.3	11.9	11.7	6.2	5.7	6.3
Wausau .....	4.7	4.9	4.9	11.8	12.6	12.2	7.0	6.7	7.0
<b>Wyoming</b> .....	8.0	8.1	8.0	51.2	54.1	51.3	59.1	51.1	58.7
Casper .....	1.2	1.2	1.2	8.3	8.8	8.6	5.2	4.7	5.3
<b>Puerto Rico</b> .....	44.0	45.4	45.1	178.0	177.2	179.4	310.1	301.5	301.2
Caguas .....	1.6	1.8	1.8	10.4	10.2	10.1	16.9	16.6	16.8
Mayaguez .....	2.1	2.0	1.9	10.5	10.8	11.6	21.2	20.4	20.5
Ponce .....	2.3	2.2	2.2	14.7	14.7	15.2	25.9	28.0	26.2
San Juan-Bayamon .....	34.4	35.7	35.4	123.5	122.0	122.8	189.0	185.8	184.6
<b>Virgin Islands</b> .....	1.8	1.8	1.8	8.7	9.8	9.7	13.9	14.5	13.6

<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 1996 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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Total private</b> .....		34.9	34.5	35.0	34.7	34.6	-	-	-	-	-
<b>Goods-producing</b> .....		41.8	41.5	41.5	41.9	41.6	-	-	-	-	-
<b>Mining</b> .....		45.9	45.9	45.6	45.5	45.3	-	-	-	-	-
Metal mining .....	10	44.9	43.6	43.8	44.7	-	-	-	-	-	-
Iron ores .....	101	44.8	45.6	44.6	45.4	-	-	-	-	-	-
Copper ores .....	102	46.8	44.3	44.9	46.4	-	-	-	-	-	-
Coal mining .....	12	46.1	45.8	45.0	45.5	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	46.1	45.8	45.0	45.6	-	-	-	-	-	-
Oil and gas extraction .....	13	45.1	45.4	45.1	44.5	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	42.3	40.7	40.6	41.5	-	-	-	-	-	-
Oil and gas field services .....	138	46.6	47.9	47.3	46.0	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	48.9	48.6	48.4	48.9	-	-	-	-	-	-
Crushed and broken stone .....	142	50.4	49.9	50.6	51.0	-	-	-	-	-	-
<b>Construction</b> .....		39.7	39.9	39.7	40.0	39.6	-	-	-	-	-
General building contractors .....	15	38.5	38.6	38.5	38.9	-	-	-	-	-	-
Residential building construction .....	152	36.9	37.1	37.2	37.6	-	-	-	-	-	-
Operative builders .....	153	40.7	40.8	38.7	38.1	-	-	-	-	-	-
Nonresidential building construction .....	154	40.0	40.0	39.9	40.3	-	-	-	-	-	-
Heavy construction, except building .....	16	44.5	44.5	44.1	44.8	-	-	-	-	-	-
Highway and street construction .....	161	46.4	46.3	46.1	47.0	-	-	-	-	-	-
Heavy construction, except highway .....	162	43.6	43.6	43.0	43.6	-	-	-	-	-	-
Special trade contractors .....	17	38.9	39.2	39.0	39.2	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	39.6	39.8	40.0	39.9	-	-	-	-	-	-
Painting and paper hanging .....	172	37.1	38.0	38.6	38.3	-	-	-	-	-	-
Electrical work .....	173	40.5	40.2	40.4	40.5	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	36.2	36.6	36.4	36.6	-	-	-	-	-	-
Carpentry and floor work .....	175	36.1	35.9	36.1	36.3	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	35.8	36.5	35.9	36.2	-	-	-	-	-	-
<b>Manufacturing</b> .....		42.3	41.9	42.0	42.4	42.2	5.1	4.7	4.9	5.2	5.0
<b>Durable goods</b> .....		43.1	42.7	42.7	43.2	43.0	5.3	4.9	5.2	5.5	5.3
Lumber and wood products .....	24	41.6	41.4	41.3	41.6	41.4	4.6	4.5	4.6	4.6	-
Logging .....	241	42.1	42.1	41.6	41.5	-	6.2	6.0	6.5	6.2	-
Sawmills and planing mills .....	242	42.6	42.3	42.6	42.8	-	5.3	5.1	5.4	5.3	-
Sawmills and planing mills, general .....	2421	42.9	42.6	43.1	43.3	-	5.6	5.4	6.0	5.9	-
Hardwood dimension and flooring mills .....	2426	41.8	41.4	40.9	40.8	-	4.1	3.8	3.2	3.2	-
Millwork, plywood, and structural members .....	243	42.0	41.6	41.5	41.8	-	4.6	4.5	4.3	4.5	-
Millwork .....	2431	42.1	41.6	40.8	41.7	-	4.2	4.0	3.4	3.9	-
Wood kitchen cabinets .....	2434	40.6	40.3	40.9	40.5	-	4.0	4.5	4.2	4.1	-
Hardwood veneer and plywood .....	2435	42.3	42.3	41.5	41.6	-	5.3	5.3	4.3	4.5	-
Softwood veneer and plywood .....	2436	44.9	44.0	43.8	44.4	-	6.1	5.5	5.9	6.1	-
Wood containers .....	244	39.3	39.3	39.4	39.7	-	3.8	3.6	3.7	3.8	-
Wood buildings and mobile homes .....	245	39.3	39.7	39.2	39.9	-	3.1	3.2	3.3	3.2	-
Mobile homes .....	2451	39.2	39.9	39.3	40.1	-	2.8	3.1	3.2	3.0	-
Miscellaneous wood products .....	249	41.5	41.4	40.5	40.9	-	3.9	3.8	3.8	3.8	-
Furniture and fixtures .....	25	40.4	40.3	40.5	41.1	40.6	3.6	3.5	3.8	4.0	-
Household furniture .....	251	39.0	39.3	39.4	40.0	-	2.7	2.9	3.0	3.3	-
Wood household furniture .....	2511	39.2	39.6	40.2	40.4	-	2.9	2.9	3.0	3.2	-
Upholstered household furniture .....	2512	38.1	38.6	37.9	39.0	-	2.0	2.5	2.1	2.6	-
Metal household furniture .....	2514	40.7	42.0	38.7	39.1	-	3.8	4.6	3.5	3.3	-
Mattresses and bedsprings .....	2515	40.1	38.0	40.7	41.6	-	3.3	2.4	4.9	5.4	-
Office furniture .....	252	41.4	40.4	41.9	43.0	-	3.6	3.0	4.6	4.8	-
Public building and related furniture .....	253	42.6	41.9	42.1	40.8	-	5.9	5.0	5.5	4.4	-
Partitions and fixtures .....	254	43.5	42.6	42.7	43.5	-	5.6	5.1	4.9	5.5	-
Miscellaneous furniture and fixtures .....	259	41.1	40.2	40.4	41.1	-	3.7	3.5	3.6	4.2	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Total private</b> .....		\$11.95	\$11.95	\$12.21	\$12.39	\$12.43	\$417.06	\$412.28	\$427.35	\$429.93	\$430.08
<b>Goods-producing</b> .....		13.66	13.62	13.96	14.07	14.10	570.99	565.23	579.34	589.53	586.56
<b>Mining</b> .....		15.73	15.54	15.94	16.23	16.18	722.01	713.29	726.86	738.47	732.95
Metal mining .....	10	17.57	17.46	17.69	17.84	—	788.89	761.26	774.82	797.45	—
Iron ores .....	101	18.85	18.77	18.93	19.25	—	844.48	855.91	844.28	873.95	—
Copper ores .....	102	15.98	16.14	16.41	16.47	—	747.86	715.00	736.81	764.21	—
Coal mining .....	12	18.76	18.59	18.89	18.98	—	864.84	851.42	850.05	863.59	—
Bituminous coal and lignite mining .....	122	19.08	18.90	19.20	19.28	—	879.59	865.62	864.00	879.17	—
Oil and gas extraction .....	13	15.01	14.79	15.35	15.74	—	676.95	671.47	692.29	700.43	—
Crude petroleum and natural gas .....	131	19.79	19.68	20.85	21.55	—	837.12	800.98	846.51	894.33	—
Oil and gas field services .....	138	12.62	12.51	13.02	13.25	—	588.09	599.23	615.85	609.50	—
Nonmetallic minerals, except fuels .....	14	14.04	13.94	14.33	14.52	—	686.56	677.48	693.57	710.03	—
Crushed and broken stone .....	142	13.48	13.31	13.72	13.87	—	679.39	664.17	694.23	707.37	—
<b>Construction</b> .....		15.75	15.75	16.09	16.27	16.30	625.28	628.43	638.77	650.80	645.48
General building contractors .....	15	14.85	14.76	15.10	15.33	—	571.73	569.74	581.35	596.34	—
Residential building construction .....	152	13.60	13.50	13.97	14.32	—	501.84	500.85	519.68	538.43	—
Operative builders .....	153	14.10	14.18	14.94	15.47	—	573.87	578.54	578.18	589.41	—
Nonresidential building construction .....	154	15.99	15.92	16.16	16.26	—	639.60	636.80	644.78	655.28	—
Heavy construction, except building .....	16	15.69	15.70	15.83	16.12	—	698.21	698.65	698.10	722.18	—
Highway and street construction .....	161	16.05	15.99	16.18	16.40	—	744.72	740.34	745.90	770.80	—
Heavy construction, except highway .....	162	15.51	15.56	15.63	15.97	—	676.24	678.42	672.09	696.29	—
Special trade contractors .....	17	16.06	16.08	16.48	16.62	—	624.73	630.34	642.72	651.50	—
Plumbing, heating, and air conditioning .....	171	16.35	16.33	16.84	17.00	—	647.46	649.93	673.60	678.30	—
Painting and paper hanging .....	172	14.41	14.51	14.66	14.83	—	534.61	551.38	565.88	567.99	—
Electrical work .....	173	17.44	17.36	17.86	18.02	—	706.32	697.87	721.54	729.81	—
Masonry, stonework, and plastering .....	174	15.95	15.88	16.42	16.46	—	577.39	581.21	597.69	602.44	—
Carpentry and floor work .....	175	15.83	16.00	16.30	16.33	—	571.46	574.40	588.43	592.78	—
Roofing, siding, and sheet metal work .....	176	13.68	13.69	14.25	14.36	—	489.74	499.69	511.58	519.83	—
<b>Manufacturing</b> .....		12.90	12.83	13.15	13.24	13.29	545.67	537.58	552.30	561.38	560.84
<b>Durable goods</b> .....		13.52	13.42	13.71	13.81	13.89	582.71	573.03	585.42	596.59	597.27
Lumber and wood products .....	24	10.57	10.56	10.80	10.87	10.86	439.71	437.18	446.04	452.19	449.60
Logging .....	241	11.94	11.91	12.35	12.40	—	502.67	501.41	513.76	514.60	—
Sawmills and planing mills .....	242	10.69	10.67	10.84	10.90	—	455.39	451.34	461.78	466.52	—
Sawmills and planing mills, general .....	2421	11.08	11.07	11.28	11.33	—	475.33	471.58	486.17	490.59	—
Hardwood dimension and flooring mills .....	2426	9.13	9.08	9.07	9.13	—	381.63	375.91	370.96	372.50	—
Millwork, plywood, and structural members .....	243	10.65	10.63	10.91	11.02	—	447.30	442.21	452.77	460.64	—
Millwork .....	2431	10.74	10.73	11.00	11.15	—	452.15	446.37	448.80	464.96	—
Wood kitchen cabinets .....	2434	10.14	10.23	10.57	10.65	—	411.68	412.27	432.31	431.33	—
Hardwood veneer and plywood .....	2435	9.34	9.32	9.54	9.56	—	395.08	394.24	395.91	397.70	—
Softwood veneer and plywood .....	2436	13.06	12.94	13.26	13.24	—	586.39	569.36	580.79	587.86	—
Wood containers .....	244	8.14	8.09	8.36	8.44	—	319.90	317.94	329.38	335.07	—
Wood buildings and mobile homes .....	245	10.69	10.87	10.95	10.99	—	420.12	431.54	429.24	438.50	—
Mobile homes .....	2451	10.87	11.08	11.13	11.17	—	426.10	442.09	437.41	447.92	—
Miscellaneous wood products .....	249	10.05	9.98	10.22	10.24	—	417.08	413.17	413.91	418.82	—
Furniture and fixtures .....	25	10.27	10.28	10.59	10.71	10.69	414.91	414.28	428.90	440.18	434.01
Household furniture .....	251	9.70	9.71	9.99	10.10	—	378.30	381.60	393.61	404.00	—
Wood household furniture .....	2511	9.28	9.25	9.54	9.68	—	363.78	366.30	383.51	391.07	—
Upholstered household furniture .....	2512	10.42	10.51	10.58	10.67	—	397.00	405.69	400.98	416.13	—
Metal household furniture .....	2514	9.32	9.29	9.61	9.63	—	379.32	390.18	371.91	376.53	—
Mattresses and bedsprings .....	2515	10.28	10.16	10.73	10.73	—	412.23	386.08	436.71	446.37	—
Office furniture .....	252	11.11	11.17	11.70	11.81	—	459.95	451.27	490.23	507.83	—
Public building and related furniture .....	253	10.86	10.96	11.31	11.60	—	462.64	459.22	476.15	473.28	—
Partitions and fixtures .....	254	11.19	11.22	11.38	11.45	—	486.77	477.97	485.93	498.08	—
Miscellaneous furniture and fixtures .....	259	10.26	10.35	10.55	10.62	—	421.69	416.07	426.22	436.48	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	44.3	44.0	43.8	44.3	43.9	6.8	6.4	6.5	6.7	—
Flat glass .....	321	47.5	47.4	46.8	45.3	—	10.2	8.7	8.1	7.9	—
Glass and glassware, pressed or blown .....	322	43.0	42.8	42.2	42.4	—	5.3	4.8	4.9	4.8	—
Glass containers .....	3221	44.5	44.5	45.0	44.1	—	6.3	6.2	7.0	6.2	—
Pressed and blown glass, nec .....	3229	42.0	41.6	40.4	41.4	—	4.6	3.8	3.6	4.0	—
Products of purchased glass .....	323	42.9	42.0	41.7	43.5	—	5.0	4.4	4.4	5.9	—
Cement, hydraulic .....	324	44.4	44.2	44.3	44.5	—	5.2	4.9	5.2	5.5	—
Structural clay products .....	325	42.1	41.9	42.4	42.7	—	5.0	4.8	4.9	5.1	—
Pottery and related products .....	326	41.7	41.8	40.2	41.2	—	5.0	4.9	4.6	4.8	—
Concrete, gypsum, and plaster products .....	327	46.5	46.1	46.0	46.3	—	9.1	8.6	8.6	8.7	—
Concrete block and brick .....	3271	47.6	47.3	47.7	47.9	—	8.9	8.9	10.0	9.3	—
Concrete products, nec .....	3272	45.2	44.6	44.6	45.2	—	7.5	6.9	7.2	7.4	—
Ready-mixed concrete .....	3273	46.8	46.6	46.3	46.5	—	10.0	9.6	9.2	9.4	—
Misc. nonmetallic mineral products .....	329	42.9	42.5	42.5	43.1	—	5.3	5.0	5.3	5.4	—
Abrasive products .....	3291	42.4	42.2	42.6	43.4	—	4.0	3.9	3.8	4.1	—
Asbestos products .....	3292	46.0	45.8	45.6	48.0	—	5.4	5.3	7.8	8.3	—
Primary metal industries .....	33	44.8	44.4	44.7	45.3	45.1	7.0	6.5	6.9	7.2	—
Blast furnaces and basic steel products .....	331	44.6	44.4	44.8	45.1	45.1	7.0	6.5	7.1	7.1	—
Blast furnaces and steel mills .....	3312	44.8	44.7	45.5	45.6	—	7.2	6.8	7.6	7.6	—
Steel pipe and tubes .....	3317	44.5	44.8	44.4	44.9	—	7.0	6.4	6.6	6.6	—
Iron and steel foundries .....	332	46.2	45.2	45.5	46.4	—	7.1	6.3	6.8	7.5	—
Gray and ductile iron foundries .....	3321	47.4	46.1	46.1	46.8	—	8.2	7.2	7.8	8.3	—
Malleable iron foundries .....	3322	46.8	46.2	54.9	53.2	—	7.2	6.5	9.8	8.8	—
Steel foundries, nec .....	3325	42.6	42.8	43.6	45.7	—	4.8	4.7	4.7	6.3	—
Primary nonferrous metals .....	333	43.4	42.9	43.8	45.0	—	6.3	5.9	6.3	6.5	—
Primary aluminum .....	3334	42.9	42.4	43.9	45.0	—	6.5	6.2	6.3	6.5	—
Nonferrous rolling and drawing .....	335	45.5	44.8	45.1	45.6	—	7.9	7.5	7.9	8.1	—
Copper rolling and drawing .....	3351	46.6	45.8	43.2	43.6	—	8.7	8.3	7.1	7.6	—
Aluminum sheet, plate, and foil .....	3353	47.2	45.7	45.8	46.9	—	9.0	8.0	9.6	9.7	—
Nonferrous wire drawing and insulating .....	3357	44.7	44.2	45.8	45.9	—	7.4	7.0	8.0	8.1	—
Nonferrous foundries (castings) .....	336	43.5	43.2	43.3	44.4	—	5.7	5.3	5.2	5.8	—
Aluminum foundries .....	3365	43.9	43.8	43.6	44.3	—	6.4	5.8	5.3	5.5	—
Fabricated metal products .....	34	43.1	42.7	42.5	43.0	42.8	5.3	4.9	5.1	5.5	—
Metal cans and shipping containers .....	341	43.5	42.1	44.2	43.8	—	7.4	6.2	7.2	6.9	—
Metal cans .....	3411	43.7	42.4	44.5	44.3	—	7.3	6.1	7.2	7.0	—
Cutlery, handtools, and hardware .....	342	43.1	42.8	42.3	43.1	—	4.8	4.3	4.6	5.1	—
Hand and edge tools, and blades and handsaws .....	3423,5	42.7	43.1	42.3	43.0	—	4.3	4.3	4.9	5.2	—
Hardware, nec .....	3429	43.1	42.1	42.3	43.3	—	5.0	4.1	4.5	5.2	—
Plumbing and heating, except electric .....	343	42.3	42.7	41.1	41.9	—	4.8	4.8	4.3	4.6	—
Plumbing fixture fittings and trim .....	3432	41.6	42.7	40.5	41.6	—	4.1	4.1	3.2	3.8	—
Heating equipment, except electric .....	3433	43.1	43.6	41.9	42.7	—	5.2	5.8	4.8	4.9	—
Fabricated structural metal products .....	344	42.7	42.5	42.5	42.8	—	5.2	5.0	5.0	5.3	—
Fabricated structural metal .....	3441	43.5	43.7	42.5	43.1	—	6.2	6.3	5.6	6.1	—
Metal doors, sash, and trim .....	3442	42.2	41.9	41.6	42.1	—	4.4	4.3	4.0	4.3	—
Fabricated plate work (boiler shops) .....	3443	43.4	42.8	43.4	43.6	—	5.5	5.0	5.6	5.7	—
Sheet metal work .....	3444	42.0	41.9	42.0	41.9	—	4.5	4.3	4.4	4.6	—
Architectural metal work .....	3446	41.7	41.3	42.2	42.5	—	4.0	3.7	4.9	4.7	—
Screw machine products, bolts, etc .....	345	43.6	43.7	43.9	43.9	—	5.7	5.7	6.0	6.2	—
Screw machine products .....	3451	42.6	42.9	42.5	42.8	—	4.8	5.0	5.1	5.5	—
Bolts, nuts, rivets, and washers .....	3452	44.7	44.7	45.6	45.3	—	6.8	6.5	7.1	7.0	—
Metal forgings and stampings .....	346	44.5	43.8	43.1	44.0	—	6.5	5.5	5.6	6.2	—
Iron and steel forgings .....	3462	44.4	44.1	43.9	45.3	—	6.0	5.7	6.4	7.0	—
Automotive stampings .....	3465	45.8	44.4	43.8	44.6	—	7.5	5.9	6.0	6.5	—
Metal stampings, nec .....	3469	42.5	42.5	41.4	42.5	—	4.8	4.6	4.4	5.0	—
Metal services, nec .....	347	42.4	42.3	41.4	41.9	—	5.0	4.9	4.9	5.5	—
Plating and polishing .....	3471	41.8	41.9	40.4	40.9	—	4.6	4.5	4.5	4.9	—
Metal coating and allied services .....	3479	43.3	42.9	43.0	43.5	—	5.6	5.5	5.7	6.4	—
Ordnance and accessories, nec .....	348	41.9	41.8	40.3	40.1	—	3.6	3.3	3.7	3.6	—
Ammunition, except for small arms, nec .....	3483	42.1	43.6	41.1	40.7	—	3.4	3.4	3.4	3.6	—
Misc. fabricated metal products .....	349	42.5	42.1	42.4	42.9	—	4.5	4.2	4.6	5.0	—
Valves and pipe fittings, nec .....	3494	42.5	42.3	42.4	42.9	—	4.7	4.2	4.4	5.1	—
Misc. fabricated wire products .....	3496	41.4	41.3	40.6	41.0	—	3.8	3.6	3.7	3.9	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$12.99	\$12.91	\$13.21	\$13.28	\$13.31	\$575.46	\$568.04	\$578.60	\$588.30	\$584.31
Flat glass .....	321	19.50	18.62	19.03	18.86	—	926.25	882.59	890.60	854.36	—
Glass and glassware, pressed or blown .....	322	14.65	14.58	15.06	15.21	—	629.95	624.02	635.53	644.90	—
Glass containers .....	3221	15.34	15.36	15.75	15.81	—	682.63	683.52	708.75	697.22	—
Pressed and blown glass, nec .....	3229	14.15	14.02	14.59	14.81	—	594.30	583.23	589.44	613.13	—
Products of purchased glass .....	323	11.47	11.53	11.77	11.78	—	492.06	484.26	490.81	512.43	—
Cement, hydraulic .....	324	17.01	17.06	17.32	17.57	—	755.24	754.05	767.28	781.87	—
Structural clay products .....	325	11.43	11.39	11.52	11.48	—	481.20	477.24	488.45	490.20	—
Pottery and related products .....	326	11.14	11.03	11.55	11.62	—	464.54	461.05	464.31	478.74	—
Concrete, gypsum, and plaster products .....	327	12.52	12.46	12.72	12.83	—	582.18	574.41	585.12	594.03	—
Concrete block and brick .....	3271	11.90	11.98	12.44	12.42	—	566.44	566.65	593.39	594.92	—
Concrete products, nec .....	3272	11.09	11.00	11.30	11.40	—	501.27	490.60	503.98	515.28	—
Ready-mixed concrete .....	3273	13.34	13.26	13.48	13.63	—	624.31	617.92	624.12	633.80	—
Misc. nonmetallic mineral products .....	329	13.39	13.36	13.54	13.55	—	574.43	567.80	575.45	584.01	—
Abrasive products .....	3291	11.51	11.41	11.75	11.81	—	488.02	481.50	500.55	512.55	—
Asbestos products .....	3292	15.75	15.62	15.75	15.40	—	724.50	715.40	718.20	739.20	—
Primary metal industries .....	33	15.18	15.09	15.17	15.26	15.33	680.06	670.00	678.10	691.28	691.38
Blast furnaces and basic steel products .....	331	18.10	17.94	17.97	18.28	18.34	807.26	796.54	805.06	824.43	827.13
Blast furnaces and steel mills .....	3312	19.76	19.62	19.60	19.98	—	885.25	877.01	891.80	911.09	—
Steel pipe and tubes .....	3317	13.95	13.87	13.81	14.16	—	620.78	621.38	613.16	635.78	—
Iron and steel foundries .....	332	13.78	13.61	13.81	13.87	—	636.64	615.17	628.36	643.57	—
Gray and ductile iron foundries .....	3321	14.65	14.43	14.71	14.80	—	694.41	665.22	678.13	692.64	—
Malleable iron foundries .....	3322	16.76	16.54	15.07	14.82	—	784.37	764.15	827.34	788.42	—
Steel foundries, nec .....	3325	12.50	12.45	12.62	12.73	—	532.50	532.86	550.23	581.76	—
Primary nonferrous metals .....	333	16.60	16.57	16.71	16.61	—	720.44	710.85	731.90	747.45	—
Primary aluminum .....	3334	16.98	16.93	16.70	16.54	—	728.44	717.83	733.13	744.30	—
Nonferrous rolling and drawing .....	335	14.23	14.25	14.41	14.34	—	647.47	638.40	649.89	653.90	—
Copper rolling and drawing .....	3351	14.28	14.27	14.52	14.61	—	665.45	653.57	627.26	637.00	—
Aluminum sheet, plate, and foil .....	3353	16.16	16.42	16.70	16.64	—	762.75	750.39	764.86	780.42	—
Nonferrous wire drawing and insulating .....	3357	14.45	14.39	14.43	14.35	—	645.92	636.04	660.89	658.67	—
Nonferrous foundries (castings) .....	336	11.98	11.97	11.85	11.91	—	521.13	517.10	513.11	528.80	—
Aluminum foundries .....	3365	11.53	11.32	11.49	11.64	—	506.17	495.82	500.96	515.65	—
Fabricated metal products .....	34	12.67	12.55	12.79	12.86	12.88	546.08	535.89	543.58	552.98	551.26
Metal cans and shipping containers .....	341	16.29	15.81	16.58	16.43	—	708.62	665.60	732.84	719.63	—
Metal cans .....	3411	17.25	16.71	17.65	17.47	—	753.83	708.50	785.43	773.92	—
Cutlery, handtools, and hardware .....	342	12.66	12.62	12.36	12.34	—	545.65	540.14	522.83	531.85	—
Hand and edge tools, and blades and handsaws .....	3423,5	11.62	11.73	12.02	12.06	—	496.17	505.56	508.45	518.58	—
Hardware, nec .....	3429	12.81	12.61	12.47	12.45	—	552.11	530.88	527.48	539.09	—
Plumbing and heating, except electric .....	343	11.47	11.44	11.79	11.78	—	485.18	488.49	484.57	493.58	—
Plumbing fixture fittings and trim .....	3432	11.27	11.09	11.41	11.45	—	468.83	473.54	462.11	476.32	—
Heating equipment, except electric .....	3433	11.55	11.69	12.07	11.93	—	497.81	509.68	505.73	509.41	—
Fabricated structural metal products .....	344	11.84	11.82	12.11	12.21	—	505.57	502.35	514.68	522.59	—
Fabricated structural metal .....	3441	11.96	11.91	12.20	12.25	—	520.26	520.47	518.50	527.98	—
Metal doors, sash, and trim .....	3442	9.99	10.04	10.38	10.41	—	421.58	420.68	431.81	438.26	—
Fabricated plate work (boiler shops) .....	3443	13.17	13.10	13.45	13.58	—	571.58	560.68	583.73	592.09	—
Sheet metal work .....	3444	12.09	12.09	12.35	12.51	—	507.78	506.57	518.70	524.17	—
Architectural metal work .....	3446	11.13	11.08	11.52	11.64	—	464.12	457.60	486.14	494.70	—
Screw machine products, bolts, etc .....	345	12.60	12.60	12.86	13.02	—	549.36	550.62	564.55	571.58	—
Screw machine products .....	3451	11.91	11.97	12.24	12.34	—	507.37	513.51	520.20	528.15	—
Bolts, nuts, rivets, and washers .....	3452	13.37	13.30	13.53	13.76	—	597.64	594.51	616.97	623.33	—
Metal forgings and stampings .....	346	15.10	14.70	14.99	15.02	—	671.95	643.86	646.07	660.88	—
Iron and steel forgings .....	3462	14.13	14.05	14.34	14.43	—	627.37	619.61	629.53	653.68	—
Automotive stampings .....	3465	17.49	16.81	17.26	17.25	—	801.04	746.36	755.99	769.35	—
Metal stampings, nec .....	3469	11.96	11.94	12.24	12.32	—	508.30	507.45	506.74	523.60	—
Metal services, nec .....	347	10.52	10.54	10.80	10.94	—	446.05	445.84	447.12	458.39	—
Plating and polishing .....	3471	10.38	10.37	10.62	10.77	—	433.88	434.50	429.05	440.49	—
Metal coating and allied services .....	3479	10.72	10.81	11.09	11.21	—	464.18	463.75	476.87	487.64	—
Ordnance and accessories, nec .....	348	14.62	14.46	15.32	15.17	—	612.58	604.43	617.40	608.32	—
Ammunition, except for small arms, nec .....	3483	15.69	15.54	16.08	15.83	—	660.55	677.54	660.89	644.28	—
Misc. fabricated metal products .....	349	11.98	11.96	12.22	12.31	—	509.15	503.52	518.13	528.10	—
Valves and pipe fittings, nec .....	3494	12.24	12.20	12.46	12.42	—	520.20	516.06	528.30	532.82	—
Misc. fabricated wire products .....	3496	10.56	10.47	10.88	10.87	—	437.18	432.41	441.73	445.67	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	43.3	42.9	43.1	43.8	43.4	5.1	4.8	5.4	5.8	—
Engines and turbines .....	351	43.6	44.0	43.4	45.2	—	5.4	5.3	5.7	6.9	—
Turbines and turbine generator sets .....	3511	43.2	42.3	41.7	42.9	—	5.8	5.1	4.3	5.4	—
Internal combustion engines, nec .....	3519	43.7	44.6	44.0	46.0	—	5.2	5.4	6.2	7.4	—
Farm and garden machinery .....	352	42.5	42.3	42.1	42.5	—	4.5	4.4	5.0	4.8	—
Farm machinery and equipment .....	3523	43.1	42.7	42.7	43.3	—	5.2	5.0	5.8	5.5	—
Construction and related machinery .....	353	44.1	43.4	44.4	45.1	—	5.6	5.2	6.1	6.3	—
Construction machinery .....	3531	43.2	42.2	42.9	44.4	—	4.8	4.4	5.2	5.4	—
Mining machinery .....	3532	42.0	43.1	42.3	42.2	—	4.2	4.7	4.6	5.0	—
Oil and gas field machinery .....	3533	49.9	48.4	50.1	50.2	—	10.2	9.2	9.7	10.0	—
Conveyors and conveying equipment .....	3535	42.4	42.3	42.5	42.9	—	4.6	4.7	5.3	5.3	—
Industrial trucks and tractors .....	3537	41.1	40.7	41.6	42.4	—	3.6	3.1	4.3	4.8	—
Metalworking machinery .....	354	43.7	43.7	43.5	44.2	—	6.0	5.9	6.1	6.6	—
Machine tools, metal cutting types .....	3541	44.7	44.4	44.2	44.4	—	6.2	5.8	6.1	6.5	—
Machine tools, metal forming types .....	3542	43.3	43.4	44.5	45.8	—	5.8	5.5	5.8	6.6	—
Special dies, tools, jigs, and fixtures .....	3544	44.2	44.0	43.7	44.2	—	6.7	6.7	6.6	7.1	—
Machine tool accessories .....	3545	43.0	43.0	42.7	43.0	—	4.8	4.8	4.8	5.0	—
Power driven handtools .....	3546	40.6	40.6	41.7	42.5	—	3.8	3.6	3.9	4.6	—
Special industry machinery .....	355	42.5	42.7	42.9	43.4	—	4.7	4.6	5.2	5.8	—
Textile machinery .....	3552	42.5	42.4	41.8	41.6	—	4.1	4.0	4.0	4.2	—
Printing trades machinery .....	3555	40.3	41.0	41.6	42.5	—	4.1	3.6	4.9	5.3	—
Food products machinery .....	3556	43.0	42.9	42.3	42.6	—	4.6	4.9	5.0	5.2	—
General industrial machinery .....	356	43.3	42.6	42.9	43.6	—	5.0	4.7	5.0	5.5	—
Pumps and pumping equipment .....	3561	42.9	42.1	42.4	41.8	—	5.1	4.7	4.9	4.6	—
Ball and roller bearings .....	3562	45.0	43.4	44.1	44.9	—	6.6	5.7	6.3	6.6	—
Air and gas compressors .....	3563	43.2	43.4	42.4	43.8	—	5.2	5.4	4.7	5.3	—
Blowers and fans .....	3564	44.2	43.2	43.6	43.7	—	4.7	3.9	4.6	4.7	—
Speed changers, drives, and gears .....	3566	41.4	42.1	44.4	45.1	—	4.5	4.8	6.1	6.6	—
Power transmission equipment, nec .....	3568	42.6	41.3	41.4	42.6	—	4.8	4.4	4.4	5.7	—
Computer and office equipment .....	357	42.4	41.5	41.3	41.9	—	3.1	2.7	3.8	3.8	—
Electronic computers .....	3571	43.8	42.2	41.3	41.9	—	2.5	1.7	3.6	3.3	—
Computer terminals, calculators, and office machines, nec .....	3575,8,9	41.5	40.5	41.6	41.9	—	4.6	3.8	4.6	4.9	—
Refrigeration and service machinery .....	358	44.1	43.0	43.7	43.8	—	5.3	4.3	5.3	5.3	—
Refrigeration and heating equipment .....	3585	44.9	43.4	43.9	44.4	—	5.7	4.4	5.8	5.7	—
Misc. industrial and commercial machinery .....	359	43.0	42.8	43.1	43.8	—	5.4	5.2	5.9	6.2	—
Carburetors, pistons, rings, valves .....	3592	44.1	42.3	40.1	41.1	—	6.0	4.9	4.4	4.9	—
Scales, balances, and industrial machinery, nec ..	3596,9	42.8	42.7	43.1	43.9	—	5.4	5.2	5.9	6.3	—
Electronic and other electrical equipment .....	36	42.0	41.7	41.7	42.2	42.2	4.4	4.1	4.2	4.6	—
Electric distribution equipment .....	361	41.6	41.4	41.0	42.5	—	4.4	4.2	4.1	4.6	—
Transformers, except electronic .....	3612	41.0	41.3	42.0	43.1	—	3.7	3.5	4.4	4.6	—
Switchgear and switchboard apparatus .....	3613	42.2	41.6	40.1	41.9	—	5.0	4.9	3.9	4.6	—
Electrical industrial apparatus .....	362	41.3	41.3	41.3	41.7	—	3.9	3.5	3.5	3.8	—
Motors and generators .....	3621	41.9	41.4	41.4	41.5	—	3.9	3.4	3.6	3.6	—
Relays and industrial controls .....	3625	40.0	40.5	40.6	41.2	—	3.8	3.5	3.2	3.6	—
Household appliances .....	363	42.8	41.7	38.8	41.1	—	3.6	2.9	2.7	3.0	—
Household refrigerators and freezers .....	3632	40.1	40.0	38.7	40.7	—	1.6	0.9	2.2	3.1	—
Household laundry equipment .....	3633	46.0	44.0	34.1	42.3	—	4.1	3.0	1.2	2.3	—
Electric housewares and fans .....	3634	43.0	42.7	41.2	41.3	—	4.7	4.6	3.4	3.7	—
Electric lighting and wiring equipment .....	364	42.4	42.6	41.9	42.0	—	4.6	4.5	4.5	4.9	—
Electric lamps .....	3641	43.9	44.4	42.4	42.1	—	4.6	4.9	4.9	5.3	—
Current-carrying wiring devices .....	3643	41.9	41.6	41.1	41.7	—	4.2	4.0	4.4	4.9	—
Noncurrent-carrying wiring devices .....	3644	42.7	42.0	42.2	42.2	—	4.2	3.5	3.5	3.9	—
Residential lighting fixtures .....	3645	40.6	41.6	39.5	39.6	—	3.9	4.4	2.9	3.3	—
Household audio and video equipment .....	365	41.3	41.0	42.0	41.7	—	5.2	4.7	5.3	5.9	—
Household audio and video equipment .....	3651	41.1	40.8	41.2	40.8	—	4.0	3.8	3.5	3.4	—
Communications equipment .....	366	42.9	42.6	42.0	43.3	—	4.1	3.9	4.0	4.6	—
Telephone and telegraph apparatus .....	3661	44.2	43.7	43.6	45.6	—	4.5	4.3	4.6	5.4	—
Electronic components and accessories .....	367	41.4	40.9	42.0	42.1	—	4.5	4.1	4.5	4.7	—
Electron tubes .....	3671	39.4	40.1	39.5	39.8	—	4.2	4.3	4.5	4.4	—
Semiconductors and related devices .....	3674	41.3	40.2	43.4	43.8	—	4.9	4.4	5.3	5.2	—
Electronic components, nec .....	3679	41.3	41.2	41.2	40.3	—	3.7	3.4	3.5	3.9	—
Misc. electrical equipment and supplies .....	369	43.3	43.0	43.0	43.1	—	5.4	5.1	4.8	5.3	—
Storage batteries .....	3691	43.9	44.0	43.0	43.7	—	5.6	6.1	4.7	5.8	—
Engine electrical equipment .....	3694	44.1	43.1	43.6	43.6	—	6.0	5.2	5.3	5.7	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$13.77	\$13.70	\$14.02	\$14.15	\$14.1B	\$596.24	\$587.73	\$604.26	\$619.77	\$615.41
Engines and turbines .....	351	16.81	16.45	16.61	16.82	—	732.92	723.80	720.87	760.26	—
Turbines and turbine generator sets .....	3511	18.94	18.88	19.45	19.59	—	818.21	798.62	811.07	840.41	—
Internal combustion engines, nec .....	3519	16.03	15.60	15.65	15.92	—	700.51	695.76	688.60	732.32	—
Farm and garden machinery .....	352	13.95	13.86	13.85	14.00	—	592.88	586.28	583.09	595.00	—
Farm machinery and equipment .....	3523	14.78	14.71	14.65	14.68	—	637.02	628.12	625.56	635.64	—
Construction and related machinery .....	353	13.23	13.12	13.49	13.50	—	583.44	569.41	598.96	608.85	—
Construction machinery .....	3531	13.60	13.36	13.84	13.81	—	587.52	563.79	593.74	613.16	—
Mining machinery .....	3532	14.28	14.28	14.71	14.64	—	599.76	615.47	622.23	617.81	—
Oil and gas field machinery .....	3533	12.93	12.88	13.19	13.17	—	645.21	623.39	660.82	661.13	—
Conveyors and conveying equipment .....	3535	13.22	13.17	13.68	13.69	—	560.53	557.09	581.40	587.30	—
Industrial trucks and tractors .....	3537	12.23	12.21	12.30	12.48	—	502.65	496.95	511.68	529.15	—
Metalworking machinery .....	354	14.58	14.58	14.83	15.00	—	637.15	637.15	645.11	663.00	—
Machine tools, metal cutting types .....	3541	14.44	14.36	14.60	14.69	—	645.47	637.58	645.32	652.24	—
Machine tools, metal forming types .....	3542	15.14	15.23	15.15	15.22	—	655.56	660.98	674.18	697.08	—
Special dies, tools, jigs, and fixtures .....	3544	15.17	15.21	15.54	15.80	—	670.51	669.24	679.10	698.36	—
Machine tool accessories .....	3545	12.83	12.83	13.08	13.15	—	551.69	551.69	558.52	565.45	—
Power driven handtools .....	3546	12.14	12.14	12.10	12.34	—	492.88	492.88	504.57	524.45	—
Special industry machinery .....	355	14.15	14.08	14.73	14.89	—	601.38	601.22	631.92	646.23	—
Textile machinery .....	3552	12.27	12.34	12.79	12.99	—	521.48	523.22	534.62	540.38	—
Printing trades machinery .....	3555	15.50	15.01	15.93	15.95	—	624.65	615.41	662.69	677.88	—
Food products machinery .....	3556	13.72	13.85	14.58	14.69	—	589.96	594.17	616.73	625.79	—
General industrial machinery .....	356	13.48	13.48	13.72	13.79	—	583.68	574.25	588.59	601.24	—
Pumps and pumping equipment .....	3561	14.20	14.27	14.47	14.55	—	609.18	600.77	613.53	608.19	—
Ball and roller bearings .....	3562	14.57	14.57	14.77	14.66	—	655.65	632.34	651.36	658.23	—
Air and gas compressors .....	3563	14.15	14.08	14.51	14.59	—	611.28	611.07	615.22	639.04	—
Blowers and fans .....	3564	11.23	11.20	11.52	11.53	—	496.37	483.84	502.27	503.86	—
Speed changers, drives, and gears .....	3566	14.71	14.44	14.64	14.69	—	608.99	607.92	650.02	662.52	—
Power transmission equipment, nec .....	3568	13.04	13.10	13.02	13.29	—	555.50	541.03	539.03	566.15	—
Computer and office equipment .....	357	14.05	13.94	14.23	14.42	—	595.72	578.51	587.70	604.20	—
Electronic computers .....	3571	15.52	15.30	15.64	15.89	—	679.78	645.66	645.93	665.79	—
Computer terminals, calculators, and office machines, nec .....	3575.8.9	13.46	13.47	13.27	13.38	—	558.59	545.54	552.03	560.62	—
Refrigeration and service machinery .....	358	12.53	12.38	12.77	12.92	—	552.57	532.34	558.05	565.90	—
Refrigeration and heating equipment .....	3585	12.77	12.62	13.12	13.32	—	573.37	547.71	575.97	591.41	—
Misc. industrial and commercial machinery .....	359	13.27	13.24	13.61	13.74	—	570.61	566.67	586.59	601.81	—
Carburetors, pistons, rings, valves .....	3592	14.18	14.04	14.22	14.42	—	625.34	593.89	570.22	592.66	—
Scales, balances, and industrial machinery, nec ..	3596.9	13.03	13.02	13.41	13.53	—	557.68	555.95	577.97	593.97	—
Electronic and other electrical equipment .....	36	12.35	12.33	12.75	12.87	12.91	518.70	514.16	531.68	543.11	544.80
Electric distribution equipment .....	361	12.22	12.13	12.75	12.78	—	508.35	502.18	522.75	543.15	—
Transformers, except electronic .....	3612	11.35	11.23	11.95	11.97	—	465.35	463.80	501.90	515.91	—
Switchgear and switchboard apparatus .....	3613	13.09	13.06	13.50	13.56	—	552.40	543.30	541.35	568.16	—
Electrical industrial apparatus .....	362	11.72	11.71	12.09	12.24	—	484.04	483.62	499.32	510.41	—
Motors and generators .....	3621	11.03	10.99	11.25	11.41	—	462.16	454.99	465.75	473.52	—
Relays and industrial controls .....	3625	13.01	12.97	13.60	13.80	—	520.40	525.29	552.16	568.56	—
Household appliances .....	363	12.20	12.16	12.08	12.14	—	522.16	507.07	468.70	498.95	—
Household refrigerators and freezers .....	3632	13.88	13.84	13.12	13.37	—	556.59	553.60	507.74	544.16	—
Household laundry equipment .....	3633	13.95	13.99	13.85	13.93	—	641.70	615.56	472.29	589.24	—
Electric housewares and fans .....	3634	9.73	9.85	10.64	10.65	—	418.39	420.60	438.37	439.85	—
Electric lighting and wiring equipment .....	364	12.49	12.40	12.66	12.79	—	529.58	528.24	530.45	537.18	—
Electric lamps .....	3641	14.96	14.94	15.84	16.02	—	656.74	663.34	671.62	674.44	—
Current-carrying wiring devices .....	3643	12.49	12.46	12.93	13.01	—	523.33	518.34	531.42	542.52	—
Noncurrent-carrying wiring devices .....	3644	11.35	11.35	11.29	11.35	—	484.65	476.70	476.44	478.97	—
Residential lighting fixtures .....	3645	8.84	8.81	9.07	9.14	—	358.90	366.50	358.27	361.94	—
Household audio and video equipment .....	365	10.27	10.28	11.48	11.51	—	424.15	421.48	482.16	479.97	—
Household audio and video equipment .....	3651	10.34	10.41	10.82	10.85	—	424.97	424.73	445.78	442.68	—
Communications equipment .....	366	13.33	13.36	13.94	14.07	—	571.86	569.14	585.48	609.23	—
Telephone and telegraph apparatus .....	3661	14.62	14.64	15.23	15.22	—	646.20	639.77	664.03	694.03	—
Electronic components and accessories .....	367	12.10	12.13	12.61	12.75	—	500.94	496.12	529.62	536.78	—
Electron tubes .....	3671	13.87	13.65	15.07	15.10	—	546.48	547.37	595.27	600.98	—
Semiconductors and related devices .....	3674	15.48	15.72	16.11	16.56	—	639.32	631.94	699.17	725.33	—
Electronic components, nec .....	3679	10.18	10.10	10.42	10.38	—	420.43	416.12	429.30	418.31	—
Misc. electrical equipment and supplies .....	369	13.67	13.52	13.65	13.78	—	591.91	581.36	586.95	593.92	—
Storage batteries .....	3691	14.96	14.99	14.83	15.17	—	656.74	659.56	637.69	662.93	—
Engine electrical equipment .....	3694	14.00	13.72	13.75	13.83	—	617.40	591.33	599.50	602.99	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	45.1	44.2	44.3	44.4	44.5	6.9	6.0	6.2	6.5	—
Motor vehicles and equipment .....	371	46.2	45.0	44.7	44.8	45.1	7.6	6.4	6.4	6.8	—
Motor vehicles and car bodies .....	3711	46.8	45.9	45.1	45.0	—	7.8	6.8	6.4	6.6	—
Truck and bus bodies .....	3713	43.0	42.8	43.5	43.2	—	5.6	4.8	5.2	6.3	—
Motor vehicle parts and accessories .....	3714	46.7	45.0	44.9	45.1	—	8.1	6.7	6.8	7.3	—
Truck trailers .....	3715	40.8	39.7	43.1	43.0	—	3.0	2.8	3.8	4.1	—
Aircraft and parts .....	372	44.2	43.9	44.4	45.1	—	7.3	6.1	7.0	7.4	—
Aircraft .....	3721	43.6	43.2	44.4	44.6	—	8.1	5.4	7.1	7.4	—
Aircraft engines and engine parts .....	3724	45.0	44.7	44.2	45.4	—	7.0	7.1	6.3	7.2	—
Aircraft parts and equipment, nec .....	3728	44.5	44.3	44.7	45.5	—	6.5	6.4	7.3	7.4	—
Ship and boat building and repairing .....	373	42.4	42.5	42.3	42.2	—	4.4	4.3	4.3	4.2	—
Ship building and repairing .....	3731	43.9	44.1	44.4	43.9	—	5.2	5.2	5.2	5.1	—
Boat building and repairing .....	3732	40.1	40.0	39.5	39.8	—	3.2	2.9	2.9	3.0	—
Railroad equipment .....	374	45.7	45.2	45.5	45.2	—	6.3	5.8	5.2	5.2	—
Guided missiles, space vehicles, and parts .....	376	43.7	43.5	43.3	43.5	—	3.9	4.0	4.8	4.8	—
Guided missiles and space vehicles .....	3761	44.7	44.2	43.5	43.7	—	4.1	4.1	5.0	4.7	—
Misc. transportation equipment .....	379	38.5	38.3	40.1	40.3	—	2.7	2.7	3.7	3.5	—
Travel trailers and campers .....	3792	38.0	37.8	38.5	38.5	—	2.0	1.9	2.2	2.3	—
Instruments and related products .....	38	42.0	41.7	42.1	42.1	42.0	4.1	3.8	4.0	4.2	—
Search and navigation equipment .....	381	43.6	43.3	43.2	43.5	—	4.1	3.7	3.8	4.1	—
Measuring and controlling devices .....	382	42.1	41.7	41.6	41.8	—	3.6	3.3	3.4	3.6	—
Environmental controls .....	3822	41.8	41.3	40.8	41.1	—	3.8	3.6	3.6	3.4	—
Process control instruments .....	3823	42.7	42.3	42.2	42.5	—	4.1	3.6	3.3	3.5	—
Instruments to measure electricity .....	3825	41.1	40.8	41.3	41.5	—	2.4	2.5	2.9	3.1	—
Medical instruments and supplies .....	384	41.3	41.1	42.1	42.0	—	3.5	3.2	3.8	4.0	—
Surgical and medical instrument .....	3841	41.0	40.9	42.9	41.9	—	3.7	3.1	4.2	3.9	—
Surgical appliances and supplies .....	3842	41.1	40.9	41.3	41.6	—	3.5	3.4	3.8	4.0	—
Ophthalmic goods .....	385	40.0	39.8	41.1	39.9	—	2.4	2.1	3.2	2.6	—
Photographic equipment and supplies .....	386	43.6	43.2	43.1	43.9	—	9.3	8.6	7.5	8.2	—
Watches, clocks, watchcases, and parts .....	387	42.0	41.7	41.1	41.7	—	3.4	3.0	3.1	3.5	—
Miscellaneous manufacturing industries .....	39	40.4	40.2	40.3	40.8	40.9	3.5	3.6	3.3	3.7	—
Jewelry, silverware, and plated ware .....	391	40.1	40.4	40.0	40.9	—	3.4	3.8	2.3	3.2	—
Jewelry, precious metal .....	3911	39.5	40.0	39.6	40.7	—	3.2	4.0	2.0	3.1	—
Musical instruments .....	393	40.0	39.9	40.8	40.8	—	3.1	2.6	2.9	3.1	—
Toys and sporting goods .....	394	40.3	39.8	39.9	40.6	—	2.9	2.9	2.9	3.1	—
Dolls, games, toys, and children's vehicles .....	3942,4	38.7	38.5	39.8	40.8	—	2.6	2.7	2.8	3.1	—
Sporting and athletic goods, nec .....	3949	41.1	40.5	40.0	40.5	—	3.1	3.1	3.0	3.1	—
Pens, pencils, office, and art supplies .....	395	40.8	40.1	39.8	40.1	—	3.3	3.1	3.3	3.2	—
Costume jewelry and notions .....	396	42.0	41.2	38.7	39.9	—	3.7	4.0	2.9	3.5	—
Costume jewelry .....	3961	43.0	42.1	38.4	39.9	—	3.8	4.6	3.1	3.7	—
Miscellaneous manufactures .....	399	40.3	40.4	40.8	41.2	—	4.0	4.1	3.9	4.3	—
Signs and advertising specialties .....	3993	41.3	41.2	41.5	42.1	—	4.5	4.6	4.7	4.7	—
<b>Nondurable goods .....</b>		<b>41.3</b>	<b>40.9</b>	<b>40.9</b>	<b>41.4</b>	<b>41.2</b>	<b>4.7</b>	<b>4.4</b>	<b>4.6</b>	<b>4.9</b>	<b>4.6</b>
Food and kindred products .....	20	42.2	41.7	41.7	42.2	41.9	5.8	5.2	5.7	5.9	—
Meat products .....	201	41.3	40.9	40.6	41.3	—	4.9	4.4	4.5	4.9	—
Meat packing plants .....	2011	43.6	43.1	41.9	42.5	—	6.0	5.5	5.0	5.7	—
Sausages and other prepared meats .....	2013	42.3	42.4	42.2	43.5	—	5.7	5.7	6.0	6.6	—
Poultry slaughtering and processing .....	2015	39.5	39.0	39.3	39.8	—	3.9	3.3	3.7	3.9	—
Dairy products .....	202	42.2	41.4	42.2	42.7	—	5.3	4.7	5.3	5.3	—
Cheese, natural and processed .....	2022	41.6	41.2	41.9	42.4	—	5.2	4.6	4.8	5.2	—
Fluid milk .....	2026	42.9	42.2	42.5	43.7	—	5.4	4.9	5.1	5.8	—
Preserved fruits and vegetables .....	203	43.4	42.2	42.9	43.6	—	7.2	5.9	7.6	7.5	—
Canned specialties .....	2032	46.4	44.8	42.6	47.7	—	10.1	7.6	7.2	10.8	—
Canned fruits and vegetables .....	2033	45.2	42.7	44.9	44.7	—	9.0	6.9	9.7	9.2	—
Frozen fruits and vegetables .....	2037	41.6	41.6	41.0	41.4	—	5.2	5.0	6.4	5.5	—
Grain mill products .....	204	46.8	46.5	45.6	46.2	—	8.1	8.6	7.4	8.3	—
Flour and other grain mill products .....	2041	47.3	45.1	46.0	45.9	—	9.0	8.2	7.5	7.8	—
Prepared feeds, nec .....	2048	45.3	45.6	43.7	43.4	—	7.4	7.5	6.3	6.4	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$17.45	\$17.25	\$17.47	\$17.62	\$17.93	\$787.00	\$762.45	\$773.92	\$782.33	\$797.89
Motor vehicles and equipment .....	371	18.04	17.73	17.86	18.07	18.50	833.45	797.85	798.34	809.54	834.35
Motor vehicles and car bodies .....	3711	21.39	21.12	21.14	21.49	—	1,001.05	969.41	953.41	967.05	—
Truck and bus bodies .....	3713	15.21	14.89	14.67	15.45	—	654.03	637.29	638.15	667.44	—
Motor vehicle parts and accessories .....	3714	16.78	16.40	16.65	16.82	—	783.63	738.00	747.59	758.58	—
Truck trailers .....	3715	10.97	10.94	11.17	11.23	—	447.58	434.32	481.43	482.89	—
Aircraft and parts .....	372	18.75	18.71	18.86	18.92	—	828.75	821.37	837.38	853.29	—
Aircraft .....	3721	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Aircraft engines and engine parts .....	3724	18.40	18.59	18.64	18.85	—	828.00	830.97	823.89	855.79	—
Aircraft parts and equipment, nec .....	3728	16.49	16.55	16.76	16.61	—	733.81	733.17	749.17	755.76	—
Ship and boat building and repairing .....	373	12.91	13.01	13.15	13.08	—	547.38	552.93	556.25	551.98	—
Ship building and repairing .....	3731	14.33	14.39	14.50	14.41	—	629.09	634.60	643.80	632.60	—
Boat building and repairing .....	3732	10.45	10.64	11.00	10.97	—	419.05	425.60	434.50	436.61	—
Railroad equipment .....	374	17.04	17.02	16.94	16.87	—	778.73	769.30	770.77	762.52	—
Guided missiles, space vehicles, and parts .....	376	18.73	18.88	19.68	19.55	—	818.50	821.28	852.14	850.43	—
Guided missiles and space vehicles .....	3761	(2)	(2)	(2)	(2)	—	—	—	—	—	—
Misc. transportation equipment .....	379	11.40	11.20	11.54	11.58	—	438.90	428.96	462.75	466.67	—
Travel trailers and campers .....	3792	11.36	10.93	11.49	11.57	—	431.68	413.15	442.37	445.45	—
Instruments and related products .....	38	13.31	13.27	13.52	13.67	13.68	559.02	553.36	569.19	575.51	574.56
Search and navigation equipment .....	381	16.81	16.80	17.03	17.03	—	732.92	727.44	735.70	740.81	—
Measuring and controlling devices .....	382	13.27	13.21	13.54	13.67	—	558.67	550.86	563.26	571.41	—
Environmental controls .....	3822	11.81	11.63	11.63	11.65	—	493.66	480.32	474.50	478.82	—
Process control instruments .....	3823	12.88	12.77	13.13	13.33	—	549.98	540.17	554.09	566.53	—
Instruments to measure electricity .....	3825	15.11	15.13	15.68	15.75	—	621.02	617.30	647.58	653.63	—
Medical instruments and supplies .....	384	12.17	12.12	12.52	12.74	—	502.62	498.13	527.09	535.08	—
Surgical and medical instrument .....	3841	11.68	11.48	11.81	12.14	—	478.88	469.53	506.65	508.67	—
Surgical appliances and supplies .....	3842	11.14	11.22	11.60	11.71	—	457.85	458.90	479.08	487.14	—
Ophthalmic goods .....	385	10.23	10.09	10.00	10.26	—	409.20	401.58	411.00	409.37	—
Photographic equipment and supplies .....	386	16.04	16.09	15.93	16.04	—	699.34	695.09	686.58	704.16	—
Watches, clocks, watchcases, and parts .....	387	9.59	9.47	9.95	9.88	—	402.78	394.90	408.95	412.00	—
Miscellaneous manufacturing industries .....	39	10.48	10.47	10.57	10.65	10.63	423.39	420.89	425.97	434.52	434.77
Jewelry, silverware, and plated ware .....	391	10.85	10.86	10.96	11.04	—	435.09	438.74	438.40	451.54	—
Jewelry, precious metal .....	3911	10.96	11.00	11.05	11.16	—	432.92	440.00	437.58	454.21	—
Musical instruments .....	393	10.81	10.75	10.67	10.88	—	432.40	428.93	435.34	443.90	—
Toys and sporting goods .....	394	10.05	9.94	10.10	10.22	—	405.02	395.61	402.99	414.93	—
Dolls, games, toys, and children's vehicles .....	3942.4	9.49	9.42	9.61	9.55	—	367.26	362.67	382.48	389.64	—
Sporting and athletic goods, nec .....	3949	10.34	10.21	10.37	10.60	—	424.97	413.51	414.80	429.30	—
Pens, pencils, office, and art supplies .....	395	10.95	10.87	11.14	11.09	—	446.76	435.89	443.37	444.71	—
Costume jewelry and notions .....	396	8.79	8.91	9.38	9.44	—	369.18	367.09	363.01	376.66	—
Costume jewelry .....	3961	7.62	7.81	8.31	8.38	—	327.66	328.80	319.10	334.36	—
Miscellaneous manufactures .....	399	10.82	10.88	10.82	10.88	—	436.05	439.55	441.46	448.26	—
Signs and advertising specialties .....	3993	11.50	11.47	11.48	11.43	—	474.95	472.56	476.42	481.20	—
<b>Nondurable goods .....</b>		<b>12.01</b>	<b>12.00</b>	<b>12.33</b>	<b>12.40</b>	<b>12.41</b>	<b>496.01</b>	<b>490.80</b>	<b>504.30</b>	<b>513.36</b>	<b>511.29</b>
Food and kindred products .....	20	11.19	11.16	11.51	11.51	11.47	472.22	465.37	479.97	485.72	480.59
Meat products .....	201	9.26	9.23	9.35	9.44	—	382.44	377.51	379.61	389.87	—
Meat packing plants .....	2011	10.05	9.99	9.95	10.10	—	438.18	430.57	416.91	429.25	—
Sausages and other prepared meats .....	2013	10.49	10.53	10.71	10.79	—	443.73	446.47	451.96	469.37	—
Poultry slaughtering and processing .....	2015	8.29	8.24	8.47	8.50	—	327.46	321.36	332.87	338.30	—
Dairy products .....	202	12.96	12.90	13.28	13.31	—	546.91	534.06	560.42	568.34	—
Cheese, natural and processed .....	2022	11.75	11.57	12.06	12.23	—	488.80	476.68	505.31	518.55	—
Fluid milk .....	2026	13.72	13.63	13.88	13.99	—	588.59	575.19	589.90	611.36	—
Preserved fruits and vegetables .....	203	10.55	10.43	11.00	10.83	—	457.87	440.15	471.90	472.19	—
Canned specialties .....	2032	14.09	13.79	14.52	13.92	—	653.78	617.79	618.55	663.98	—
Canned fruits and vegetables .....	2033	10.67	10.53	11.56	11.25	—	482.28	449.63	519.04	502.88	—
Frozen fruits and vegetables .....	2037	10.04	10.09	10.33	10.23	—	417.66	419.74	423.53	423.52	—
Grain mill products .....	204	14.14	14.32	14.37	14.63	—	661.75	665.88	655.27	675.91	—
Flour and other grain mill products .....	2041	12.38	12.24	12.74	13.04	—	585.57	552.02	586.04	598.54	—
Prepared feeds, nec .....	2048	11.16	11.14	11.35	11.38	—	505.55	507.98	496.00	493.89	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	41.0	40.7	40.6	40.8	—	5.4	5.2	5.0	5.2	—
Bread, cake, and related products .....	2051	40.6	40.5	40.1	40.3	—	5.4	5.2	5.1	5.0	—
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	41.8	41.1	41.5	41.8	—	5.3	5.1	4.8	5.5	—
Sugar and confectionery products .....	206	40.8	41.9	40.7	40.7	—	4.6	5.2	4.2	4.7	—
Raw cane sugar .....	2061	43.0	45.2	41.1	43.7	—	6.0	9.0	3.9	5.4	—
Cane sugar refining .....	2062	49.6	49.2	48.6	48.9	—	14.5	13.5	10.8	11.8	—
Beet sugar .....	2063	40.9	45.1	42.9	38.5	—	4.7	8.3	3.9	4.8	—
Candy and other confectionery products .....	2064	39.2	39.7	39.7	39.4	—	3.7	3.3	3.8	3.9	—
Fats and oils .....	207	45.6	44.6	42.2	42.3	—	7.3	6.5	6.7	6.7	—
Beverages .....	208	43.0	41.5	44.2	43.4	—	5.5	4.7	6.5	5.8	—
Malt beverages .....	2082	45.2	44.4	47.3	46.1	—	6.6	6.3	8.2	7.9	—
Bottled and canned soft drinks .....	2086	41.8	40.2	43.7	42.3	—	4.8	3.9	6.6	4.6	—
Misc. food and kindred products .....	209	41.0	40.8	40.4	41.5	—	5.6	4.7	5.7	6.0	—
Tobacco products .....	21	42.0	41.2	37.8	39.1	39.0	5.6	3.7	3.0	3.2	—
Cigarettes .....	211	42.0	40.2	38.5	37.6	—	7.0	4.1	3.5	3.2	—
Textile mill products .....	22	41.4	41.1	41.6	42.0	41.5	4.7	4.5	4.8	5.0	—
Broadwoven fabric mills, cotton .....	221	43.0	42.8	42.5	42.9	—	6.3	5.8	5.9	6.6	—
Broadwoven fabric mills, synthetics .....	222	41.1	41.1	41.5	42.5	—	4.5	4.7	5.2	5.9	—
Broadwoven fabric mills, wool .....	223	41.1	39.0	42.2	42.3	—	5.2	3.7	6.0	5.6	—
Narrow fabric mills .....	224	40.0	39.5	40.1	40.4	—	3.2	2.8	2.6	2.9	—
Knitting mills .....	225	40.1	39.9	40.4	40.8	—	3.8	3.8	3.7	4.0	—
Women's hosiery, except socks .....	2251	40.2	40.6	39.2	39.7	—	3.9	4.4	2.8	3.0	—
Hosiery, nec .....	2252	37.8	38.2	38.3	38.5	—	2.9	3.1	3.2	3.2	—
Knit outerwear mills .....	2253	41.1	40.2	40.9	41.2	—	3.6	3.3	3.6	3.7	—
Knit underwear mills .....	2254	38.4	38.9	39.0	39.3	—	3.0	4.1	2.5	3.0	—
Wet knit fabric mills .....	2257	40.9	41.0	41.2	42.5	—	5.4	4.8	5.3	6.0	—
Textile finishing, except wool .....	226	42.8	42.5	42.4	42.8	—	5.6	5.3	5.6	5.6	—
Finishing plants, cotton .....	2261	43.9	43.3	42.9	43.0	—	5.9	5.3	6.2	6.0	—
Finishing plants, synthetics .....	2262	41.5	41.4	42.4	42.6	—	4.8	4.5	5.0	5.3	—
Carpets and rugs .....	227	43.2	41.5	42.0	41.9	—	5.8	4.7	5.2	5.3	—
Yarn and thread mills .....	228	41.2	41.3	42.3	42.3	—	4.5	4.2	5.0	5.0	—
Yarn spinning mills .....	2281	41.8	41.8	42.9	42.8	—	4.8	4.4	5.4	5.3	—
Throwing and winding mills .....	2282	38.1	38.0	39.3	39.7	—	3.3	3.0	3.2	3.5	—
Miscellaneous textile goods .....	229	41.6	41.3	42.6	43.1	—	4.5	4.3	5.0	5.2	—
Apparel and other textile products .....	23	37.6	37.6	37.4	37.6	37.6	2.2	2.2	2.3	2.4	—
Men's and boys' suits and coats .....	231	37.1	36.7	36.8	37.5	—	1.5	1.6	1.3	1.4	—
Men's and boys' furnishings .....	232	37.0	37.0	37.0	36.8	—	1.6	1.6	1.6	1.6	—
Men's and boys' shirts .....	2321	36.4	36.2	36.4	36.1	—	1.5	1.3	1.7	1.4	—
Men's and boys' trousers and slacks .....	2325	36.4	36.0	36.3	36.0	—	1.4	1.3	1.5	1.4	—
Men's and boys' work clothing .....	2326	37.0	36.9	37.4	36.9	—	1.1	1.2	1.4	1.5	—
Women's and misses' outerwear .....	233	36.1	36.3	36.1	36.1	—	1.6	1.7	1.8	1.7	—
Women's and misses' blouses and shirts .....	2331	36.1	35.2	36.3	36.1	—	1.6	1.1	1.7	1.7	—
Women's, juniors', and misses' dresses .....	2335	37.7	38.3	37.9	37.0	—	2.0	2.1	2.9	2.4	—
Women's and misses' suits and coats .....	2337	35.6	34.7	38.8	38.5	—	1.9	1.7	2.5	2.3	—
Women's and misses' outerwear, nec .....	2339	35.8	36.3	35.2	35.4	—	1.5	1.7	1.5	1.5	—
Women's and children's undergarments .....	234	37.1	38.3	37.6	37.7	—	2.3	2.7	2.0	2.4	—
Women's and children's underwear .....	2341	36.8	38.3	37.4	38.2	—	2.3	2.5	1.7	2.5	—
Brassieres, girdles, and allied garments .....	2342	38.2	38.4	38.1	36.1	—	2.4	3.3	2.6	2.2	—
Girls' and children's outerwear .....	236	37.2	37.1	37.2	38.6	—	2.5	2.2	3.4	4.1	—
Girls' and children's dresses and blouses .....	2361	36.8	36.4	37.7	38.0	—	2.1	2.1	3.2	3.7	—
Misc. apparel and accessories .....	238	37.9	38.2	37.7	38.5	—	1.5	1.9	1.7	2.1	—
Misc. fabricated textile products .....	239	40.3	39.8	39.3	39.8	—	3.9	3.5	3.6	3.9	—
Curtains and draperies .....	2391	37.4	38.2	35.1	36.3	—	1.7	1.7	1.0	1.0	—
House furnishings, nec .....	2392	41.3	40.2	40.0	40.7	—	4.5	4.2	4.1	4.8	—
Automotive and apparel trimmings .....	2396	41.1	40.0	40.5	41.5	—	4.3	3.4	3.9	4.5	—
Paper and allied products .....	26	44.0	43.6	43.4	44.0	43.8	6.1	5.8	5.8	6.2	—
Paper mills .....	262	45.9	45.9	44.2	45.3	—	7.0	7.1	6.3	7.0	—
Paperboard mills .....	263	44.3	44.3	43.3	44.0	—	7.3	7.3	7.0	7.3	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	\$12.15	\$12.18	\$12.67	\$12.64	—	\$498.15	\$495.73	\$514.40	\$515.71	—
Bread, cake, and related products .....	2051	12.32	12.27	12.77	12.77	—	500.19	496.94	512.08	514.63	—
Cookies, crackers, and frozen bakery products, except bread .....	2052.3	11.87	12.02	12.51	12.42	—	496.17	494.02	519.17	519.16	—
Sugar and confectionery products .....	206	12.22	11.77	13.03	12.88	—	498.58	493.16	530.32	524.22	—
Raw cane sugar .....	2061	11.72	11.78	11.92	12.22	—	503.96	532.46	489.91	534.01	—
Cane sugar refining .....	2062	18.26	18.21	17.86	17.92	—	905.70	895.93	868.00	876.29	—
Beet sugar .....	2063	13.92	11.97	14.39	14.29	—	569.33	539.85	617.33	550.17	—
Candy and other confectionery products .....	2064	11.03	10.76	12.04	11.88	—	432.38	427.17	477.99	468.07	—
Fats and oils .....	207	12.08	11.87	12.65	12.75	—	550.85	529.40	533.83	539.33	—
Beverages .....	208	15.67	15.69	15.93	15.95	—	673.81	651.14	704.11	692.23	—
Malt beverages .....	2082	21.31	21.01	22.01	22.29	—	963.21	932.84	1,041.07	1,027.57	—
Bottled and canned soft drinks .....	2086	12.90	13.01	13.31	13.22	—	539.22	523.00	581.65	559.21	—
Misc. food and kindred products .....	209	10.08	10.08	10.26	10.20	—	413.28	411.26	414.50	423.30	—
Tobacco products .....	21	18.37	17.73	19.78	18.12	\$17.74	771.54	730.48	747.68	708.49	\$691.86
Cigarettes .....	211	24.98	24.47	24.83	24.57	—	1,049.16	983.69	955.96	923.83	—
Textile mill products .....	22	9.78	9.73	10.01	10.09	10.08	404.89	399.90	416.42	423.78	418.32
Broadwoven fabric mills, cotton .....	221	10.17	10.04	10.46	10.60	—	437.31	429.71	444.55	454.74	—
Broadwoven fabric mills, synthetics .....	222	10.71	10.72	10.96	11.08	—	440.18	440.59	454.84	470.90	—
Broadwoven fabric mills, wool .....	223	10.38	10.02	10.53	10.49	—	426.62	390.78	444.37	443.73	—
Narrow fabric mills .....	224	9.12	9.12	9.12	9.20	—	364.80	360.24	365.71	371.68	—
Knitting mills .....	225	8.93	8.90	9.09	9.15	—	358.09	355.11	367.24	373.32	—
Women's hosiery, except socks .....	2251	8.32	8.47	8.48	8.62	—	334.46	343.88	332.42	342.21	—
Hosiery, nec .....	2252	8.86	8.78	9.12	9.14	—	334.91	335.40	349.30	351.89	—
Knit outerwear mills .....	2253	8.34	8.35	8.54	8.63	—	342.77	335.67	349.29	355.56	—
Knit underwear mills .....	2254	9.00	8.86	9.18	9.45	—	345.60	344.65	358.02	371.39	—
Wett knit fabric mills .....	2257	9.76	9.71	9.81	9.82	—	399.18	398.11	404.17	417.35	—
Textile finishing, except wool .....	226	10.00	9.93	10.30	10.43	—	428.00	422.03	436.72	446.40	—
Finishing plants, cotton .....	2261	9.88	9.92	10.21	10.30	—	433.73	429.54	438.01	442.90	—
Finishing plants, synthetics .....	2262	10.49	10.27	10.84	11.15	—	435.34	425.18	459.62	474.99	—
Carpets and rugs .....	227	9.90	9.80	10.06	10.03	—	427.68	406.70	422.52	420.26	—
Yarn and thread mills .....	228	9.52	9.51	9.78	9.81	—	392.22	392.76	413.69	414.96	—
Yarn spinning mills .....	2281	9.49	9.46	9.80	9.84	—	396.68	395.43	420.42	421.15	—
Throwing and winding mills .....	2282	9.78	9.85	9.92	9.92	—	372.62	374.30	389.86	393.82	—
Miscellaneous textile goods .....	229	11.05	11.05	11.51	11.60	—	459.68	456.37	490.33	499.96	—
Apparel and other textile products .....	23	8.00	8.03	8.23	8.34	8.36	300.80	301.93	307.80	313.58	314.34
Men's and boys' suits and coats .....	231	8.19	8.27	8.33	8.35	—	303.85	303.51	306.54	313.13	—
Men's and boys' furnishings .....	232	7.41	7.51	7.73	7.83	—	274.17	277.87	286.01	288.14	—
Men's and boys' shirts .....	2321	7.32	7.36	7.58	7.66	—	266.45	266.43	275.91	276.53	—
Men's and boys' trousers and slacks .....	2325	7.46	7.60	7.90	8.05	—	271.54	273.60	286.77	289.80	—
Men's and boys' work clothing .....	2326	7.35	7.44	7.54	7.66	—	271.95	274.54	282.00	282.65	—
Women's and misses' outerwear .....	233	7.46	7.53	7.91	7.97	—	269.31	273.34	285.55	287.72	—
Women's and misses' blouses and shirts .....	2331	6.63	6.65	7.02	7.19	—	239.34	234.08	254.83	259.56	—
Women's, juniors', and misses' dresses .....	2335	8.35	8.37	8.84	9.09	—	314.80	320.57	335.04	336.33	—
Women's and misses' suits and coats .....	2337	7.87	7.86	8.02	8.03	—	280.17	272.74	311.18	309.16	—
Women's and misses' outerwear, nec .....	2339	7.31	7.41	7.79	7.79	—	261.70	268.98	274.21	275.77	—
Women's and children's undergarments .....	234	7.57	7.64	7.79	7.97	—	280.85	292.61	292.90	300.47	—
Women's and children's underwear .....	2341	7.45	7.54	7.59	7.81	—	274.16	288.78	283.87	298.34	—
Brassieres, girdles, and allied garments .....	2342	7.96	7.99	8.36	8.46	—	304.07	306.82	318.52	305.41	—
Girls' and children's outerwear .....	236	7.11	7.20	7.57	7.69	—	264.49	267.12	281.60	296.83	—
Girls' and children's dresses and blouses .....	2361	7.04	7.04	7.15	7.23	—	259.07	256.26	269.56	274.74	—
Misc. apparel and accessories .....	238	7.43	7.57	7.77	7.85	—	281.60	289.17	292.93	302.23	—
Misc. fabricated textile products .....	239	9.33	9.23	9.19	9.36	—	376.00	367.35	361.17	372.53	—
Curtains and draperies .....	2391	7.43	7.58	8.16	8.21	—	277.88	289.56	286.42	298.02	—
House furnishings, nec .....	2392	8.47	8.44	8.79	8.92	—	349.81	339.29	351.60	363.04	—
Automotive and apparel trimmings .....	2396	11.90	11.60	10.70	11.05	—	489.09	464.00	433.35	458.58	—
Paper and allied products .....	26	14.74	14.74	15.13	15.19	15.21	648.56	642.66	656.64	668.36	666.20
Paper mills .....	262	18.64	18.65	19.20	19.40	—	855.58	856.04	848.64	878.82	—
Paperboard mills .....	263	18.69	18.78	18.77	18.88	—	827.97	831.95	812.74	830.72	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	44.3	43.6	43.8	44.6	—	6.3	5.8	6.2	6.6	—
Corrugated and solid fiber boxes .....	2653	44.6	44.1	44.2	45.5	—	6.6	6.2	6.6	7.2	—
Sanitary food containers .....	2656	42.6	41.2	42.6	41.4	—	4.6	4.2	4.9	4.4	—
Folding paperboard boxes .....	2657	44.8	43.6	43.6	44.3	—	6.9	5.9	6.2	6.6	—
Misc. converted paper products .....	267	42.1	41.9	42.4	42.6	—	5.0	4.6	4.9	5.2	—
Paper, coated and laminated, nec .....	2672	44.3	43.8	43.8	43.3	—	4.5	4.4	4.6	4.5	—
Bags: plastics, laminated, and coated .....	2673	41.9	42.3	42.1	42.1	—	5.4	5.4	5.1	4.9	—
Envelopes .....	2677	41.9	41.9	41.5	41.9	—	4.7	4.1	4.3	4.4	—
Printing and publishing .....	27	38.8	38.4	38.6	39.2	38.8	3.7	3.5	3.5	3.9	—
Newspapers .....	271	33.3	33.1	33.2	33.4	—	1.4	1.3	1.4	1.5	—
Periodicals .....	272	37.4	36.8	36.8	37.9	—	3.6	3.4	3.0	3.1	—
Books .....	273	40.0	39.3	40.7	40.6	—	3.6	3.4	4.6	4.6	—
Book publishing .....	2731	37.6	37.4	37.3	37.6	—	1.8	1.7	2.7	2.8	—
Book printing .....	2732	42.6	41.3	44.4	44.0	—	5.6	5.1	6.7	6.5	—
Miscellaneous publishing .....	274	35.2	34.7	36.9	36.6	—	2.3	2.5	2.7	2.5	—
Commercial printing .....	275	40.6	40.3	40.1	41.1	—	4.6	4.4	4.3	4.8	—
Commercial printing, lithographic .....	2752	40.3	39.9	40.0	41.0	—	4.4	4.2	4.1	4.7	—
Commercial printing, nec .....	2759	40.5	40.1	39.8	40.9	—	4.3	4.2	4.0	4.7	—
Manifold business forms .....	276	42.2	41.4	41.7	42.3	—	4.4	4.4	4.0	4.6	—
Blankbooks and bookbinding .....	278	40.3	39.6	39.6	40.0	—	3.4	3.0	3.0	3.3	—
Printing trade services .....	279	39.1	39.2	39.5	39.5	—	3.9	4.0	4.5	4.4	—
Chemicals and allied products .....	28	43.3	43.2	43.0	43.5	43.6	5.2	5.0	5.2	5.4	—
Industrial inorganic chemicals .....	281	46.7	46.4	46.3	47.1	—	6.0	5.8	6.1	6.0	—
Industrial inorganic chemicals, nec .....	2819	46.9	46.4	45.7	46.1	—	6.2	5.7	5.6	5.9	—
Plastics materials and synthetics .....	282	44.3	44.2	43.4	43.7	—	5.9	5.7	5.6	5.5	—
Plastics materials and resins .....	2821	45.3	45.0	44.6	44.8	—	5.9	5.9	5.7	5.6	—
Organic fibers, noncellulosic .....	2824	44.9	44.8	42.4	42.8	—	5.6	5.6	5.1	5.2	—
Drugs .....	283	41.7	41.5	41.1	41.3	—	4.5	4.3	4.6	5.0	—
Pharmaceutical preparations .....	2834	41.8	41.6	41.4	41.6	—	4.5	4.1	4.4	5.0	—
Soap, cleaners, and toilet goods .....	284	41.4	40.4	41.5	42.2	—	4.1	3.6	4.2	4.4	—
Soap and other detergents .....	2841	42.6	41.8	43.1	43.1	—	5.0	4.2	4.7	5.4	—
Polishing, sanitation, and finishing preparations .....	2842,3	40.6	40.9	41.8	41.9	—	3.6	3.6	4.3	3.9	—
Toilet preparations .....	2844	41.3	39.6	40.7	41.9	—	4.0	3.3	3.9	4.1	—
Paints and allied products .....	285	42.6	42.6	43.4	43.8	—	4.6	4.4	5.1	5.3	—
Industrial organic chemicals .....	286	44.1	44.7	44.0	44.7	—	6.1	6.1	6.1	6.5	—
Cyclic crudes and intermediates .....	2865	45.2	45.1	44.5	44.7	—	6.5	6.2	6.3	6.0	—
Industrial organic chemicals, nec .....	2869	43.8	44.5	43.8	44.7	—	5.9	6.0	6.0	6.6	—
Agricultural chemicals .....	287	45.1	45.3	43.9	44.8	—	6.2	6.4	5.8	6.4	—
Miscellaneous chemical products .....	289	43.2	43.2	43.2	43.4	—	5.2	5.0	5.0	5.5	—
Petroleum and coal products .....	29	44.2	43.6	43.0	43.2	43.0	6.4	6.4	6.9	6.4	—
Petroleum refining .....	291	43.5	42.8	42.2	42.4	—	4.8	4.9	5.9	5.2	—
Asphalt paving and roofing materials .....	295	46.6	46.1	45.6	45.9	—	11.2	10.8	10.1	10.0	—
Rubber and misc. plastics products .....	30	42.1	41.6	41.7	41.9	41.8	4.7	4.3	4.6	4.8	—
Tires and inner tubes .....	301	43.7	43.3	43.5	43.9	—	5.7	5.9	6.3	6.6	—
Rubber and plastics footwear .....	302	39.8	39.6	39.4	41.8	—	0.4	0.6	2.8	4.2	—
Hose, belting, gaskets, and packing .....	305	42.9	42.4	42.4	42.2	—	4.8	4.7	5.0	4.9	—
Rubber and plastics hose and belting .....	3052	43.8	43.2	43.2	42.9	—	5.0	5.3	6.1	5.5	—
Fabricated rubber products, nec .....	306	42.8	42.4	42.2	42.6	—	4.9	4.4	4.5	4.7	—
Miscellaneous plastics products, nec .....	308	41.7	41.3	41.4	41.6	—	4.6	4.2	4.4	4.7	—
Leather and leather products .....	31	39.2	39.0	38.4	39.0	37.9	2.3	2.5	1.9	2.6	—
Leather tanning and finishing .....	311	44.5	43.4	42.4	44.7	—	6.7	6.3	4.4	6.3	—
Footwear, except rubber .....	314	37.6	38.4	37.4	37.5	—	1.5	1.9	1.6	2.0	—
Men's footwear, except athletic .....	3143	36.5	38.1	37.7	37.7	—	1.3	2.1	1.5	2.3	—
Women's footwear, except athletic .....	3144	39.2	39.2	36.5	37.3	—	1.3	0.9	1.1	1.0	—
Luggage .....	316	41.1	37.9	38.8	40.0	—	3.2	2.8	2.1	3.0	—
Handbags and personal leather goods .....	317	38.5	39.1	38.5	38.5	—	1.8	2.1	1.9	2.0	—
<b>Service-producing .....</b>		<b>33.0</b>	<b>32.6</b>	<b>33.3</b>	<b>32.8</b>	<b>32.7</b>	—	—	—	—	—
<b>Transportation and public utilities .....</b>		<b>40.3</b>	<b>39.7</b>	<b>40.5</b>	<b>39.6</b>	<b>39.4</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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	\$12.48	\$12.48	\$12.95	\$12.94	—	\$552.86	\$544.13	\$567.21	\$577.12	—
Corrugated and solid fiber boxes .....	2653	12.52	12.51	12.95	12.94	—	558.39	551.69	572.39	588.77	—
Sanitary food containers .....	2656	12.36	12.50	12.81	12.83	—	526.54	515.00	545.71	531.16	—
Folding paperboard boxes .....	2657	13.11	13.10	13.80	13.72	—	587.33	571.16	601.68	607.80	—
Misc. converted paper products .....	267	12.84	12.77	13.20	13.21	—	540.56	535.06	559.68	562.75	—
Paper, coated and laminated, nec .....	2672	14.80	14.82	14.96	15.19	—	655.64	649.12	655.25	657.73	—
Bags: plastics, laminated, and coated .....	2673	11.73	11.64	11.92	11.65	—	491.49	492.37	501.83	490.47	—
Envelopes .....	2677	11.93	11.78	12.03	12.00	—	499.87	493.58	499.25	502.80	—
Printing and publishing .....	27	12.82	12.81	13.07	13.21	\$13.19	497.42	491.90	504.50	517.83	\$511.77
Newspapers .....	271	12.64	12.62	12.87	12.95	—	420.91	417.72	427.28	432.53	—
Periodicals .....	272	14.08	14.14	14.43	14.55	—	526.59	520.35	531.02	551.45	—
Books .....	273	12.30	12.38	12.37	12.61	—	492.00	486.53	503.46	511.97	—
Book publishing .....	2731	11.71	11.85	11.60	11.82	—	440.30	443.19	432.68	444.43	—
Book printing .....	2732	12.85	12.90	13.07	13.36	—	547.41	532.77	580.31	587.84	—
Miscellaneous publishing .....	274	12.27	12.22	12.78	12.75	—	431.90	424.03	471.58	466.65	—
Commercial printing .....	275	13.05	13.04	13.32	13.47	—	529.83	525.51	534.13	553.62	—
Commercial printing, lithographic .....	2752	13.31	13.25	13.56	13.70	—	536.39	528.68	542.40	561.70	—
Commercial printing, nec .....	2759	12.37	12.44	12.62	12.76	—	500.99	498.84	502.28	521.88	—
Manifold business forms .....	276	13.63	13.60	13.83	13.96	—	575.19	563.04	576.71	590.51	—
Blankbooks and bookbinding .....	278	10.16	10.06	10.16	10.42	—	409.45	398.38	402.34	416.80	—
Printing trade services .....	279	15.64	15.61	16.41	16.44	—	611.52	611.91	648.20	649.38	—
Chemicals and allied products .....	28	16.25	16.28	16.57	16.62	16.67	703.63	703.30	712.51	722.97	726.81
Industrial inorganic chemicals .....	281	18.10	18.10	18.61	18.66	—	845.27	839.84	861.64	878.89	—
Industrial inorganic chemicals, nec .....	2819	18.45	18.44	18.97	18.97	—	865.31	855.62	866.93	874.52	—
Plastics materials and synthetics .....	282	17.15	17.21	17.36	17.39	—	759.75	760.68	753.42	759.94	—
Plastics materials and resins .....	2821	18.72	18.97	19.37	19.51	—	848.02	853.65	863.90	874.05	—
Organic fibers, noncellulosic .....	2824	14.82	15.04	14.90	14.88	—	665.42	673.79	631.76	636.86	—
Drugs .....	283	15.99	16.00	16.51	16.59	—	666.78	664.00	678.56	685.17	—
Pharmaceutical preparations .....	2834	15.84	15.89	16.37	16.50	—	662.11	661.02	677.72	686.40	—
Soap, cleaners, and toilet goods .....	284	12.74	12.88	13.16	13.05	—	527.44	520.35	546.14	550.71	—
Soap and other detergents .....	2841	16.64	16.44	16.50	16.60	—	708.86	687.19	711.15	715.46	—
Polishing, sanitation, and finishing preparations .....	2842.3	12.42	12.18	12.85	12.84	—	504.25	498.16	537.13	538.00	—
Toilet preparations .....	2844	11.10	11.54	11.83	11.64	—	458.43	456.98	481.48	487.72	—
Paints and allied products .....	285	13.50	13.63	14.13	14.12	—	575.10	580.64	613.24	618.46	—
Industrial organic chemicals .....	286	19.73	19.65	19.70	20.03	—	870.09	878.36	866.80	895.34	—
Cyclic crudes and intermediates .....	2865	19.42	19.53	19.99	20.16	—	877.78	880.80	889.56	901.15	—
Industrial organic chemicals, nec .....	2869	19.95	19.81	19.75	20.13	—	873.81	881.55	865.05	899.81	—
Agricultural chemicals .....	287	16.52	16.42	16.89	16.79	—	745.05	743.83	741.47	752.19	—
Miscellaneous chemical products .....	289	14.96	14.90	15.16	15.16	—	646.27	643.68	654.91	657.94	—
Petroleum and coal products .....	29	19.35	19.35	19.99	20.28	20.30	855.27	843.66	859.57	876.10	872.90
Petroleum refining .....	291	21.49	21.41	22.46	22.81	—	934.82	916.35	947.81	967.14	—
Asphalt paving and roofing materials .....	295	15.20	15.40	14.99	15.22	—	708.32	709.94	683.54	698.60	—
Rubber and misc. plastics products .....	30	11.31	11.28	11.57	11.64	11.65	476.15	469.25	482.47	487.72	486.97
Tires and inner tubes .....	301	17.97	18.20	18.59	18.62	—	785.29	788.06	808.67	817.42	—
Rubber and plastics footwear .....	302	9.27	9.18	9.90	9.90	—	368.95	363.53	390.06	413.82	—
Hose, belting, gaskets, and packing .....	305	11.55	11.54	11.73	11.74	—	495.50	489.30	497.35	495.43	—
Rubber and plastics hose and belting .....	3052	11.66	11.81	11.89	11.77	—	510.71	510.19	513.65	504.93	—
Fabricated rubber products, nec .....	306	10.83	10.83	11.26	11.37	—	463.52	459.19	475.17	484.36	—
Miscellaneous plastics products, nec .....	308	10.66	10.61	10.87	10.95	—	444.52	438.19	450.02	455.52	—
Leather and leather products .....	31	8.69	8.71	8.87	9.07	9.09	340.65	339.69	340.61	353.73	344.51
Leather tanning and finishing .....	311	11.78	11.52	11.64	11.78	—	524.21	499.97	493.54	526.57	—
Footwear, except rubber .....	314	8.20	8.29	8.36	8.61	—	308.32	318.34	312.66	322.88	—
Men's footwear, except athletic .....	3143	9.08	9.21	8.99	9.30	—	331.42	350.90	338.92	350.61	—
Women's footwear, except athletic .....	3144	7.16	7.15	7.43	7.55	—	280.67	280.28	271.20	281.62	—
Luggage .....	316	8.51	8.62	8.83	8.82	—	349.76	326.70	342.60	352.80	—
Handbags and personal leather goods .....	317	7.56	7.67	7.86	8.06	—	291.06	299.90	302.61	310.31	—
<b>Service-producing .....</b>		<b>11.36</b>	<b>11.37</b>	<b>11.62</b>	<b>11.82</b>	<b>11.86</b>	<b>374.88</b>	<b>370.66</b>	<b>386.95</b>	<b>387.70</b>	<b>387.82</b>
<b>Transportation and public utilities .....</b>		<b>14.57</b>	<b>14.49</b>	<b>15.00</b>	<b>15.05</b>	<b>15.03</b>	<b>587.17</b>	<b>575.25</b>	<b>607.50</b>	<b>595.98</b>	<b>592.18</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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class 1 railroads plus Amtrak <sup>3</sup> .....	4011	48.4	47.8	48.8	50.2	-	-	-	-	-	-
Local and interurban passenger transit .....	41	34.7	34.7	35.1	34.3	-	-	-	-	-	-
Local and suburban transportation .....	411	39.0	38.5	38.4	38.5	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	38.3	39.4	38.5	38.1	-	-	-	-	-	-
Trucking and warehousing .....	42	40.4	40.3	41.2	40.9	-	-	-	-	-	-
Trucking and courier services, except air .....	421	40.4	40.4	41.2	40.8	-	-	-	-	-	-
Public warehousing and storage .....	422	39.8	39.6	40.3	41.4	-	-	-	-	-	-
Water transportation:											
Water transportation services .....	449	37.6	37.8	37.8	37.8	-	-	-	-	-	-
Pipelines, except natural gas .....	46	45.9	43.7	42.7	43.6	-	-	-	-	-	-
Transportation services .....	47	38.7	37.7	37.9	37.3	-	-	-	-	-	-
Passenger transportation arrangement .....	472	37.8	36.9	36.9	37.0	-	-	-	-	-	-
Travel agencies .....	4724	37.5	36.5	36.9	37.2	-	-	-	-	-	-
Freight transportation arrangement .....	473	40.0	38.8	38.9	36.9	-	-	-	-	-	-
Communications .....	48	41.4	40.2	40.4	40.4	-	-	-	-	-	-
Telephone communications .....	481	43.3	42.0	42.2	42.2	-	-	-	-	-	-
Telephone communications, except radio .....	4813	43.6	42.6	42.7	42.5	-	-	-	-	-	-
Radio and television broadcasting .....	483	36.0	34.9	35.4	35.2	-	-	-	-	-	-
Cable and other pay television services .....	484	40.4	39.6	39.3	39.6	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	42.5	42.2	42.1	42.1	-	-	-	-	-	-
Electric services .....	491	42.6	41.7	41.9	42.0	-	-	-	-	-	-
Gas production and distribution .....	492	42.8	43.3	42.6	42.7	-	-	-	-	-	-
Combination utility services .....	493	42.2	42.4	42.6	42.4	-	-	-	-	-	-
Sanitary services .....	495	42.7	42.5	41.9	41.9	-	-	-	-	-	-
<b>Wholesale trade</b> .....		<b>38.6</b>	<b>38.3</b>	<b>38.5</b>	<b>38.4</b>	<b>38.5</b>	-	-	-	-	-
Durable goods .....	50	39.4	39.0	39.2	39.1	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	38.2	37.9	38.0	37.9	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.7	37.4	37.9	37.6	-	-	-	-	-	-
Lumber and other construction materials .....	503	40.9	40.6	40.4	40.4	-	-	-	-	-	-
Professional and commercial equipment .....	504	39.8	39.0	39.7	39.7	-	-	-	-	-	-
Medical and hospital equipment .....	5047	39.4	39.1	39.6	39.4	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	41.6	41.4	41.9	41.5	-	-	-	-	-	-
Electrical goods .....	506	39.6	39.1	38.8	39.0	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	39.4	38.9	39.3	39.2	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.7	39.2	39.4	39.5	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	38.1	38.0	38.0	37.8	-	-	-	-	-	-
Nondurable goods .....	51	37.4	37.4	37.5	37.4	-	-	-	-	-	-
Paper and paper products .....	511	36.0	35.7	36.4	36.0	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	36.3	36.1	35.9	36.0	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	37.6	37.6	37.4	38.0	-	-	-	-	-	-
Groceries and related products .....	514	38.4	38.3	38.5	38.6	-	-	-	-	-	-
Farm-product raw materials .....	515	35.5	37.7	35.2	35.2	-	-	-	-	-	-
Chemicals and allied products .....	516	40.5	40.2	40.2	40.1	-	-	-	-	-	-
Petroleum and petroleum products .....	517	37.8	37.4	37.9	37.8	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	37.7	37.3	37.9	37.6	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	36.3	36.5	36.3	36.1	-	-	-	-	-	-
<b>Retail trade</b> .....		<b>29.1</b>	<b>28.7</b>	<b>29.7</b>	<b>29.0</b>	<b>28.8</b>	-	-	-	-	-
Building materials and garden supplies .....	52	35.2	34.9	35.5	35.2	-	-	-	-	-	-
Lumber and other building materials .....	521	36.7	36.2	37.0	36.8	-	-	-	-	-	-
Paint, glass, and wallpaper stores .....	523	36.4	36.0	36.0	36.1	-	-	-	-	-	-
Hardware stores .....	525	31.6	31.3	31.7	30.9	-	-	-	-	-	-
Retail nurseries and garden stores .....	526	31.3	32.2	31.6	31.2	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	\$17.82	\$17.82	\$18.06	\$18.06	—	\$862.49	\$851.80	\$881.33	\$906.61	—
Local and interurban passenger transit .....	41	10.75	10.83	11.11	10.99	—	373.03	375.80	389.96	376.96	—
Local and suburban transportation .....	411	11.37	11.48	11.36	11.33	—	443.43	441.98	436.22	436.21	—
Intercity and rural bus transportation .....	413	13.34	13.58	14.18	14.06	—	510.92	535.05	545.93	535.69	—
Trucking and warehousing .....	42	13.08	13.11	13.27	13.30	—	528.43	528.33	546.72	543.97	—
Trucking and courier services, except air .....	421	13.29	13.33	13.50	13.55	—	536.92	538.53	556.20	552.84	—
Public warehousing and storage .....	422	10.83	10.70	10.76	10.74	—	431.03	423.72	433.63	444.64	—
Water transportation:											
Water transportation services .....	449	18.37	18.20	18.98	20.27	—	690.71	687.96	717.44	766.21	—
Pipelines, except natural gas .....	46	20.52	20.50	20.44	20.63	—	941.87	895.85	872.79	899.47	—
Transportation services .....	47	12.74	12.69	13.27	13.33	—	493.04	478.41	502.93	497.21	—
Passenger transportation arrangement .....	472	12.70	12.53	13.63	13.63	—	480.06	462.36	502.95	504.31	—
Travel agencies .....	4724	13.00	12.79	13.85	13.85	—	487.50	466.84	511.07	515.22	—
Freight transportation arrangement .....	473	13.26	13.33	13.23	13.31	—	530.40	517.20	514.65	491.14	—
Communications .....	48	16.22	16.14	17.10	17.16	—	671.51	648.83	690.84	693.26	—
Telephone communications .....	481	16.90	16.76	17.84	17.84	—	731.77	703.92	752.85	752.85	—
Telephone communications, except radio .....	4813	17.37	17.19	18.41	18.40	—	757.33	732.29	786.11	782.00	—
Radio and television broadcasting .....	483	16.07	16.19	16.82	17.14	—	578.52	565.03	595.43	603.33	—
Cable and other pay television services .....	484	12.79	12.85	13.56	13.61	—	516.72	508.86	532.91	538.96	—
Electric, gas, and sanitary services .....	49	18.56	18.57	19.14	19.33	—	788.80	783.65	805.79	813.79	—
Electric services .....	491	19.63	19.49	20.03	20.21	—	836.24	812.73	839.26	848.82	—
Gas production and distribution .....	492	17.78	17.83	17.70	18.19	—	760.98	772.04	754.02	776.71	—
Combination utility services .....	493	22.47	22.62	23.30	23.26	—	948.23	959.09	992.58	986.22	—
Sanitary services .....	495	13.67	13.73	15.00	15.22	—	583.71	583.53	628.50	637.72	—
<b>Wholesale trade</b> .....		13.03	12.94	13.47	13.52	\$13.54	502.96	495.60	518.60	519.17	\$521.29
Durable goods .....											
Motor vehicles, parts, and supplies .....	501	11.85	11.78	12.13	12.33	—	452.67	446.46	460.94	467.31	—
Furniture and home furnishings .....	502	11.98	11.96	12.45	12.57	—	451.65	447.30	471.86	472.63	—
Lumber and other construction materials .....	503	12.22	12.26	12.86	12.90	—	499.80	497.76	519.54	521.16	—
Professional and commercial equipment .....	504	16.30	16.25	16.62	16.57	—	648.74	633.75	659.81	657.83	—
Medical and hospital equipment .....	5047	14.97	15.13	16.37	16.25	—	589.82	591.58	648.25	640.25	—
Metals and minerals, except petroleum .....	505	13.18	13.12	13.40	13.51	—	548.29	543.17	561.46	560.67	—
Electrical goods .....	506	14.63	14.55	15.25	15.34	—	579.35	568.91	591.70	598.26	—
Hardware, plumbing, and heating equipment .....	507	12.77	12.71	13.43	13.44	—	503.14	494.42	527.80	526.85	—
Machinery, equipment, and supplies .....	508	13.54	13.52	14.07	14.14	—	537.54	529.98	554.36	558.53	—
Misc. wholesale trade durable goods .....	509	10.56	10.52	10.87	10.95	—	402.34	399.76	413.06	413.91	—
Nondurable goods .....											
Paper and paper products .....	511	12.66	12.48	12.91	12.95	—	455.76	445.54	469.92	466.20	—
Drugs, proprietaries, and sundries .....	512	15.90	15.53	16.70	16.70	—	577.17	560.63	599.53	601.20	—
Apparel, piece goods, and notions .....	513	11.75	11.59	12.46	12.50	—	441.80	435.78	466.00	475.00	—
Groceries and related products .....	514	12.58	12.49	12.93	12.97	—	483.07	478.37	497.81	500.64	—
Farm-product raw materials .....	515	9.09	9.13	9.39	9.34	—	322.70	344.20	330.53	328.77	—
Chemicals and allied products .....	516	13.86	13.82	14.25	14.33	—	561.33	555.56	572.85	574.63	—
Petroleum and petroleum products .....	517	11.38	11.44	11.46	11.57	—	430.16	427.86	434.33	437.35	—
Beer, wine, and distilled beverages .....	518	13.94	13.80	14.68	14.65	—	525.54	514.74	556.37	550.84	—
Misc. wholesale trade nondurable goods .....	519	10.11	10.01	10.28	10.39	—	366.99	365.37	373.16	375.08	—
<b>Retail trade</b> .....		8.06	8.12	8.29	8.44	8.45	234.55	233.04	246.21	244.76	243.36
Building materials and garden supplies .....											
Lumber and other building materials .....	521	9.99	10.08	10.26	10.38	—	366.63	364.90	379.62	381.98	—
Paint, glass, and wallpaper stores .....	523	10.08	10.12	10.34	10.53	—	366.91	364.32	372.24	380.13	—
Hardware stores .....	525	8.04	7.97	8.19	8.35	—	254.06	249.46	259.62	258.02	—
Retail nurseries and garden stores .....	526	8.65	8.70	8.83	9.11	—	270.75	280.14	279.03	284.23	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	30.6	29.0	30.3	30.9	—	—	—	—	—	—
Department stores .....	531	30.8	29.1	30.3	31.1	—	—	—	—	—	
Variety stores .....	533	27.8	27.2	28.6	27.9	—	—	—	—	—	
Misc. general merchandise stores .....	539	30.1	29.8	30.7	30.4	—	—	—	—	—	
Food stores .....	54	29.9	29.4	30.5	29.8	—	—	—	—	—	
Grocery stores .....	541	30.0	29.6	30.7	29.9	—	—	—	—	—	
Retail bakeries .....	546	28.4	28.4	29.7	28.5	—	—	—	—	—	
Automotive dealers and service stations .....	55	35.5	35.3	36.2	35.4	—	—	—	—	—	
New and used car dealers .....	551	37.0	36.8	37.3	36.8	—	—	—	—	—	
Auto and home supply stores .....	553	37.8	37.7	38.5	37.9	—	—	—	—	—	
Gasoline service stations .....	554	32.1	31.7	33.1	31.9	—	—	—	—	—	
Automotive dealers, nec .....	559	35.5	36.2	35.3	35.0	—	—	—	—	—	
Apparel and accessory stores .....	56	26.9	26.5	27.9	26.9	—	—	—	—	—	
Men's and boys' clothing stores .....	561	28.4	28.2	29.9	28.7	—	—	—	—	—	
Women's clothing stores .....	562	24.8	25.2	26.0	25.4	—	—	—	—	—	
Family clothing stores .....	565	28.5	27.5	28.8	27.8	—	—	—	—	—	
Shoe stores .....	566	26.3	26.0	27.4	26.1	—	—	—	—	—	
Furniture and home furnishings stores .....	57	33.3	32.8	33.4	33.2	—	—	—	—	—	
Furniture and home furnishings stores .....	571	33.3	32.9	33.2	33.1	—	—	—	—	—	
Household appliance stores .....	572	34.6	34.1	34.7	34.9	—	—	—	—	—	
Radio, television, and computer stores .....	573	33.1	32.4	33.3	33.0	—	—	—	—	—	
Radio, television, and electronic stores .....	5731	33.1	32.4	33.8	33.4	—	—	—	—	—	
Record and prerecorded tape stores .....	5735	27.0	26.3	26.6	25.4	—	—	—	—	—	
Eating and drinking places <sup>4</sup> .....	58	25.3	25.1	26.3	25.0	—	—	—	—	—	
Miscellaneous retail establishments .....	59	29.8	29.5	30.0	29.5	—	—	—	—	—	
Drug stores and proprietary stores .....	591	29.0	28.8	29.2	28.6	—	—	—	—	—	
Used merchandise stores .....	593	30.8	31.0	30.7	30.3	—	—	—	—	—	
Miscellaneous shopping goods stores .....	594	28.3	27.7	29.0	28.0	—	—	—	—	—	
Nonstore retailers .....	596	32.6	32.7	32.1	32.4	—	—	—	—	—	
Fuel dealers .....	598	37.6	38.6	36.7	37.2	—	—	—	—	—	
Retail stores, nec .....	599	30.6	30.6	30.7	30.4	—	—	—	—	—	
Optical goods stores .....	5995	33.6	33.4	33.4	33.5	—	—	—	—	—	
Miscellaneous retail stores, nec .....	5999	31.1	30.8	31.2	30.7	—	—	—	—	—	
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.5</b>	<b>35.7</b>	<b>36.1</b>	<b>35.8</b>	<b>35.8</b>	—	—	—	—	
Depository institutions .....	60	36.1	34.8	35.3	34.9	—	—	—	—	—	
Commercial banks .....	602	36.1	34.6	34.9	34.6	—	—	—	—	—	
State commercial banks .....	6022	36.3	35.0	35.4	35.0	—	—	—	—	—	
National and commercial banks, nec .....	6021,9	35.9	34.3	34.6	34.3	—	—	—	—	—	
Credit unions .....	606	36.2	35.6	36.0	35.8	—	—	—	—	—	
Nondepository institutions .....	61	39.1	37.9	37.7	37.5	—	—	—	—	—	
Personal credit institutions .....	614	39.3	38.4	38.2	37.7	—	—	—	—	—	
Security and commodity brokers: Security and commodity services .....	628	38.3	36.6	38.0	37.5	—	—	—	—	—	
Insurance carriers .....	63	38.6	38.1	38.5	38.3	—	—	—	—	—	
Life insurance .....	631	38.4	37.7	37.7	37.5	—	—	—	—	—	
Medical service and health insurance .....	632	39.3	39.3	38.7	38.5	—	—	—	—	—	
Hospital and medical service plans .....	6324	39.3	39.4	39.0	38.8	—	—	—	—	—	
Fire, marine, and casualty insurance .....	633	38.3	37.8	39.2	38.8	—	—	—	—	—	
<b>Services</b> .....		<b>32.6</b>	<b>32.4</b>	<b>32.9</b>	<b>32.5</b>	<b>32.5</b>	—	—	—	—	
Agricultural services .....	07	34.9	34.6	35.2	35.0	—	—	—	—	—	

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	\$7.94	\$7.94	\$8.11	\$8.25	—	\$242.96	\$230.26	\$245.73	\$254.93	—
Department stores .....	531	8.00	7.99	8.15	8.28	—	246.40	232.51	246.95	257.51	—
Variety stores .....	533	7.21	7.24	7.51	7.72	—	200.44	196.93	214.79	215.39	—
Misc. general merchandise stores .....	539	7.64	7.70	7.96	8.19	—	229.96	229.46	244.37	248.98	—
Food stores .....	54	8.44	8.51	8.59	8.75	—	252.36	250.19	262.00	260.75	—
Grocery stores .....	541	8.54	8.62	8.71	8.87	—	256.20	255.15	267.40	265.21	—
Retail bakeries .....	546	7.57	7.50	7.57	7.71	—	214.99	213.00	224.83	219.74	—
Automotive dealers and service stations .....	55	11.07	11.01	11.54	11.57	—	392.99	388.65	417.75	409.58	—
New and used car dealers .....	551	14.03	13.86	14.71	14.59	—	519.11	510.05	548.68	536.91	—
Auto and home supply stores .....	553	9.12	9.12	9.51	9.55	—	344.74	343.82	366.14	361.95	—
Gasoline service stations .....	554	7.20	7.27	7.41	7.62	—	231.12	230.46	245.27	243.08	—
Automotive dealers, nec .....	559	11.86	12.07	13.78	13.27	—	421.03	436.93	486.43	464.45	—
Apparel and accessory stores .....	56	7.76	7.79	7.93	8.17	—	208.74	206.44	221.25	219.77	—
Men's and boys' clothing stores .....	561	9.20	9.32	9.60	9.75	—	261.28	262.82	287.04	279.83	—
Women's clothing stores .....	562	7.65	7.63	7.92	8.15	—	189.72	192.28	205.92	207.01	—
Family clothing stores .....	565	7.70	7.63	7.64	7.87	—	219.45	209.83	220.03	218.79	—
Shoe stores .....	566	7.53	7.70	7.79	8.07	—	198.04	200.20	213.45	210.63	—
Furniture and home furnishings stores .....	57	10.84	10.76	11.32	11.41	—	360.97	352.93	378.09	378.81	—
Furniture and home furnishings stores .....	571	10.26	10.31	10.62	10.71	—	341.66	339.20	352.58	354.50	—
Household appliance stores .....	572	10.65	10.37	10.74	10.76	—	368.49	353.62	372.68	375.52	—
Radio, television, and computer stores .....	573	11.62	11.40	12.26	12.37	—	384.62	369.36	408.26	408.21	—
Radio, television, and electronic stores .....	5731	11.03	10.50	11.36	11.29	—	365.09	340.20	383.97	377.09	—
Record and prerecorded tape stores .....	5735	6.67	6.68	6.86	6.91	—	180.09	175.68	182.48	175.51	—
Eating and drinking places <sup>4</sup> .....	58	5.82	5.91	6.04	6.14	—	147.25	148.34	158.85	153.50	—
Miscellaneous retail establishments .....	59	8.82	8.83	9.05	9.16	—	262.84	260.49	271.50	270.22	—
Drug stores and proprietary stores .....	591	9.41	9.44	9.62	9.76	—	272.89	271.87	280.90	279.14	—
Used merchandise stores .....	593	7.38	7.35	7.53	7.64	—	227.30	227.85	231.17	231.49	—
Miscellaneous shopping goods stores .....	594	8.05	8.04	8.36	8.49	—	227.82	222.71	242.44	237.72	—
Nonstore retailers .....	596	9.33	9.28	9.68	9.67	—	304.16	303.46	310.73	313.31	—
Fuel dealers .....	598	11.79	12.11	12.26	12.22	—	443.30	467.45	449.94	454.58	—
Retail stores, nec .....	599	9.08	9.02	9.20	9.29	—	277.85	276.01	282.44	282.42	—
Optical goods stores .....	5995	11.03	10.98	11.44	11.20	—	370.61	366.73	382.10	375.20	—
Miscellaneous retail stores, nec .....	5999	9.34	9.29	9.39	9.59	—	290.47	286.13	292.97	294.41	—
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>12.89</b>	<b>12.87</b>	<b>13.35</b>	<b>13.44</b>	<b>\$13.53</b>	<b>470.49</b>	<b>459.46</b>	<b>481.94</b>	<b>481.15</b>	<b>\$484.37</b>
Depository institutions .....	60	10.01	9.98	10.29	10.29	—	361.36	347.30	363.24	359.12	—
Commercial banks .....	602	9.54	9.51	9.80	9.81	—	344.39	329.05	342.02	339.43	—
State commercial banks .....	6022	9.35	9.37	9.63	9.74	—	339.41	327.95	340.90	340.90	—
National and commercial banks, nec .....	6021,9	9.67	9.61	9.92	9.86	—	347.15	329.62	343.23	338.20	—
Credit unions .....	606	9.91	9.86	10.12	10.19	—	358.74	351.02	364.32	364.80	—
Nondepository institutions .....	61	13.21	12.98	13.93	14.08	—	516.51	491.94	525.16	528.00	—
Personal credit institutions .....	614	11.16	11.19	11.78	11.86	—	438.59	429.70	450.00	447.12	—
Security and commodity brokers: Security and commodity services .....	628	18.09	18.05	19.20	19.32	—	692.85	660.63	729.60	724.50	—
Insurance carriers .....	63	15.45	15.46	16.03	16.03	—	596.37	589.03	617.16	613.95	—
Life insurance .....	631	14.34	14.64	14.47	14.43	—	550.66	551.93	545.52	541.13	—
Medical service and health insurance .....	632	14.45	14.29	14.85	14.94	—	567.89	561.60	574.70	575.19	—
Hospital and medical service plans .....	6324	14.75	14.53	15.15	15.25	—	579.68	572.48	590.85	591.70	—
Fire, marine, and casualty insurance .....	633	17.02	16.93	17.79	17.74	—	651.87	639.95	697.37	688.31	—
<b>Services</b> .....		<b>11.89</b>	<b>11.93</b>	<b>12.12</b>	<b>12.37</b>	<b>12.42</b>	<b>387.61</b>	<b>386.53</b>	<b>398.75</b>	<b>402.03</b>	<b>403.65</b>
Agricultural services .....	07	9.26	9.31	9.39	9.66	—	323.17	322.13	330.53	338.10	—

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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	28.8	28.7	29.8	28.7	-	-	-	-	-	-
Landscape and horticultural services .....	078	37.3	37.0	37.5	37.7	-	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	31.3	31.0	31.8	30.8	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	33.9	34.3	34.4	34.1	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	27.7	27.7	27.9	27.5	-	-	-	-	-	-
Miscellaneous personal services .....	729	26.2	26.2	27.8	27.1	-	-	-	-	-	-
Business services											
Advertising .....	731	36.6	35.9	36.4	36.2	-	-	-	-	-	-
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	37.1	36.8	36.1	36.3	-	-	-	-	-	-
Services to buildings .....	734	28.7	28.7	28.7	28.4	-	-	-	-	-	-
Disinfecting and pest control services .....	7342	38.1	37.2	37.3	36.4	-	-	-	-	-	-
Building maintenance services, nec .....	7349	27.8	27.9	27.9	27.6	-	-	-	-	-	-
Miscellaneous equipment rental and leasing .....	735	39.5	39.1	39.2	39.0	-	-	-	-	-	-
Medical equipment rental .....	7352	37.0	36.8	36.4	35.7	-	-	-	-	-	-
Heavy construction equipment rental .....	7353	40.9	40.9	41.2	40.5	-	-	-	-	-	-
Equipment rental and leasing, nec .....	7359	39.7	39.1	39.3	39.4	-	-	-	-	-	-
Personnel supply services:											
Help supply services .....	7363	32.1	32.3	32.9	32.3	-	-	-	-	-	-
Computer and data processing services .....	737	38.3	37.7	38.3	38.2	-	-	-	-	-	-
Computer programming services .....	7371	38.2	38.1	38.6	38.5	-	-	-	-	-	-
Computer integrated systems design .....	7373	39.4	38.0	38.6	38.5	-	-	-	-	-	-
Information retrieval services .....	7375	39.3	38.4	38.6	38.1	-	-	-	-	-	-
Computer maintenance and repair .....	7378	39.4	39.3	38.3	38.8	-	-	-	-	-	-
Miscellaneous business services .....	738	33.5	33.3	33.1	33.0	-	-	-	-	-	-
Detective and armored car services .....	7381	34.5	34.5	34.3	34.2	-	-	-	-	-	-
Security systems services .....	7382	36.8	36.2	36.6	36.4	-	-	-	-	-	-
Auto repair, services, and parking											
Automotive rentals, without drivers .....	751	36.5	36.4	36.7	36.1	-	-	-	-	-	-
Passenger car rental .....	7514	36.8	36.5	36.9	36.5	-	-	-	-	-	-
Automobile parking .....	752	34.0	33.2	33.8	33.7	-	-	-	-	-	-
Automotive repair shops .....	753	38.6	38.3	38.6	38.3	-	-	-	-	-	-
Automotive and tire repair shops .....	7532.4	38.2	38.2	38.2	38.1	-	-	-	-	-	-
General automotive repair shops .....	7538	38.3	38.0	38.2	37.7	-	-	-	-	-	-
Automotive services, except repair .....	754	31.0	32.2	32.9	31.8	-	-	-	-	-	-
Carwashes .....	7542	28.8	30.5	30.7	29.6	-	-	-	-	-	-
Miscellaneous repair services .....	76	38.2	38.2	38.9	38.4	-	-	-	-	-	-
Motion pictures											
Motion picture production and services .....	781	39.2	40.0	39.3	38.9	-	-	-	-	-	-
Video tape rental .....	784	23.8	23.2	24.5	23.3	-	-	-	-	-	-
Amusement and recreation services											
Bowling centers .....	793	24.7	24.3	25.1	24.7	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	26.3	26.2	28.3	25.5	-	-	-	-	-	-
Physical fitness facilities .....	7991	18.3	18.0	19.4	19.1	-	-	-	-	-	-
Membership sports and recreation clubs .....	7997	28.6	28.0	29.0	28.0	-	-	-	-	-	-
Health services											
Offices and clinics of medical doctors .....	801	33.4	33.0	33.2	33.1	-	-	-	-	-	-
Offices and clinics of dentists .....	802	28.5	28.3	28.0	28.2	-	-	-	-	-	-
Offices and clinics of other health practitioners .....	804	30.3	29.8	30.2	30.1	-	-	-	-	-	-
Nursing and personal care facilities .....	805	33.0	32.0	32.5	32.5	-	-	-	-	-	-
Intermediate care facilities .....	8052	32.6	31.7	32.1	32.1	-	-	-	-	-	-
Hospitals .....	806	34.3	34.3	35.0	34.9	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	\$9.25	\$9.25	\$9.50	\$9.70	—	\$266.40	\$265.48	\$283.10	\$278.39	—
Landscape and horticultural services .....	078	9.32	9.38	9.40	9.70	—	347.64	347.06	352.50	365.69	—
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	8.25	8.35	8.35	8.60	—	258.23	258.85	265.53	264.88	—
Personal services:											
Laundry, cleaning, and garment services .....	721	7.76	7.79	8.06	8.16	—	263.06	267.20	277.26	278.26	—
Beauty shops <sup>4</sup> .....	723	8.90	8.80	9.23	9.09	—	246.53	243.76	257.52	249.98	—
Miscellaneous personal services .....	729	8.91	8.86	8.55	8.73	—	233.44	232.13	237.69	236.58	—
Business services .....											
Advertising .....	731	16.72	16.34	16.84	16.94	—	611.95	586.61	612.98	613.23	—
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	10.61	10.78	11.05	11.04	—	393.63	396.70	398.91	400.75	—
Services to buildings .....	734	7.78	7.71	7.91	8.03	—	223.29	221.28	227.02	228.05	—
Disinfecting and pest control services .....	7342	10.29	9.98	10.74	10.84	—	392.05	371.26	400.60	394.58	—
Building maintenance services, nec .....	7349	7.45	7.43	7.55	7.67	—	207.11	207.30	210.65	211.69	—
Miscellaneous equipment rental and leasing .....	735	11.77	11.73	11.93	12.12	—	464.92	458.64	467.66	472.68	—
Medical equipment rental .....	7352	10.72	10.77	11.53	11.61	—	396.64	396.34	419.69	414.48	—
Heavy construction equipment rental .....	7353	15.51	15.62	15.94	16.09	—	634.36	638.86	656.73	651.65	—
Equipment rental and leasing, nec .....	7359	10.87	10.71	10.85	11.09	—	431.54	418.76	426.41	436.95	—
Personnel supply services:											
Help supply services .....	7363	9.19	9.25	9.61	9.65	—	295.00	298.78	316.17	311.70	—
Computer and data processing services .....	737	19.08	19.05	19.94	20.10	—	730.76	718.19	763.70	767.82	—
Computer programming services .....	7371	22.27	21.86	22.92	23.22	—	850.71	832.87	884.71	893.97	—
Computer integrated systems design .....	7373	19.51	19.95	20.52	20.62	—	768.69	758.10	792.07	793.87	—
Information retrieval services .....	7375	14.74	14.86	15.24	15.34	—	579.28	570.62	588.26	584.45	—
Computer maintenance and repair .....	7378	13.99	14.32	15.00	15.06	—	551.21	562.78	574.50	584.33	—
Miscellaneous business services .....	738	9.62	9.55	9.71	9.82	—	322.27	318.02	321.40	324.06	—
Detective and armored car services .....	7381	7.46	7.49	7.83	7.93	—	257.37	258.41	268.57	271.21	—
Security systems services .....	7382	11.86	11.92	12.25	12.20	—	436.45	431.50	448.35	444.08	—
Auto repair, services, and parking .....											
Automotive rentals, without drivers .....	751	9.72	9.77	10.08	10.10	—	354.78	355.63	369.94	364.61	—
Passenger car rental .....	7514	8.77	8.77	9.06	9.08	—	322.74	320.11	334.31	331.42	—
Automobile parking .....	752	7.52	7.51	7.88	8.07	—	255.68	249.33	266.34	271.96	—
Automotive repair shops .....	753	11.52	11.57	11.91	11.97	—	444.67	443.13	459.73	458.45	—
Automotive and tire repair shops .....	7532.4	12.07	12.12	12.52	12.61	—	461.07	462.98	478.26	480.44	—
General automotive repair shops .....	7538	11.52	11.55	11.90	11.93	—	441.22	438.90	454.58	449.76	—
Automotive services, except repair .....	754	7.72	7.77	8.00	8.12	—	239.32	250.19	263.20	258.22	—
Carwashes .....	7542	6.65	6.85	6.97	7.06	—	191.52	208.93	213.98	208.98	—
Miscellaneous repair services .....											
Motion pictures .....	78	14.19	14.41	14.15	14.94	—	427.12	439.51	437.24	443.72	—
Motion picture production and services .....	781	19.88	19.75	19.62	20.26	—	779.30	790.00	771.07	788.11	—
Video tape rental .....	784	6.03	6.15	6.43	6.66	—	143.51	142.68	157.54	155.18	—
Amusement and recreation services .....											
Bowling centers .....	793	7.00	7.03	7.43	7.42	—	172.90	170.83	186.49	183.27	—
Misc. amusement and recreation services .....	799	8.40	8.58	8.09	8.74	—	220.92	224.80	228.95	222.87	—
Physical fitness facilities .....	7991	8.11	8.28	8.29	8.54	—	148.41	149.04	160.83	163.11	—
Membership sports and recreation clubs .....	7997	8.66	8.81	8.43	8.98	—	247.68	246.68	244.47	251.44	—
Health services .....											
Offices and clinics of medical doctors .....	801	13.32	13.34	13.78	13.93	—	444.89	440.22	457.50	461.08	—
Offices and clinics of dentists .....	802	12.99	13.05	13.58	13.66	—	370.22	369.32	380.24	385.21	—
Offices and clinics of other health practitioners .....	804	12.12	12.16	12.48	12.64	—	367.24	362.37	376.90	380.46	—
Nursing and personal care facilities .....	805	9.05	9.09	9.35	9.46	—	298.65	290.88	303.88	307.45	—
Intermediate care facilities .....	8052	8.47	8.48	8.83	8.97	—	276.12	268.82	283.44	287.94	—
Hospitals .....	806	14.81	14.77	14.99	15.09	—	507.98	506.61	524.65	526.64	—

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	28.7	28.1	29.1	29.1	-	-	-	-	-	-
Legal services .....	81	35.4	34.5	34.9	34.6	-	-	-	-	-	-
Social services .....	83	31.5	30.9	31.4	31.3	-	-	-	-	-	-
Individual and family services .....	832	31.7	30.8	31.3	31.3	-	-	-	-	-	-
Job training and related services .....	833	31.7	31.1	31.3	31.4	-	-	-	-	-	-
Child day care services .....	835	29.8	29.8	30.5	29.9	-	-	-	-	-	-
Residential care .....	836	32.6	31.8	32.2	32.3	-	-	-	-	-	-
Social services, nec .....	839	32.1	31.9	31.5	32.1	-	-	-	-	-	-
Membership organizations:											
Professional organizations .....	862	35.1	34.6	35.1	34.9	-	-	-	-	-	-
Engineering and management services .....	87	37.5	36.9	37.3	37.2	-	-	-	-	-	-
Engineering and architectural services .....	871	39.7	39.3	39.5	39.4	-	-	-	-	-	-
Engineering services .....	8711	40.1	39.6	39.7	39.6	-	-	-	-	-	-
Architectural services .....	8712	38.3	37.9	38.7	38.2	-	-	-	-	-	-
Surveying services .....	8713	38.2	38.1	38.9	38.8	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	36.0	35.3	35.8	35.5	-	-	-	-	-	-
Research and testing services .....	873	37.3	36.6	37.0	36.8	-	-	-	-	-	-
Commercial physical research .....	8731	41.1	40.3	40.2	40.1	-	-	-	-	-	-
Commercial nonphysical research .....	8732	30.8	30.3	31.5	31.0	-	-	-	-	-	-
Noncommercial research organizations .....	8733	36.7	36.2	37.0	36.5	-	-	-	-	-	-
Management and public relations .....	874	36.4	35.7	36.2	36.1	-	-	-	-	-	-
Management services .....	8741	36.0	35.4	35.3	35.4	-	-	-	-	-	-
Management consulting services .....	8742	36.1	35.6	36.6	36.3	-	-	-	-	-	-
Public relations services .....	8743	35.7	34.3	34.6	34.6	-	-	-	-	-	-
Services, nec .....	89	36.1	35.0	35.1	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				
		Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Services—Continued</b>											
Health services—Continued											
Home health care services .....	808	\$11.24	\$11.20	\$11.28	\$11.36	—	\$322.59	\$314.72	\$328.25	\$330.58	—
Legal services .....	81	16.84	16.77	17.20	17.38	—	596.14	578.57	600.28	601.35	—
Social services .....	83	8.67	8.63	8.77	8.91	—	273.11	266.67	275.38	278.88	—
Individual and family services .....	832	9.21	9.15	9.29	9.43	—	291.96	281.82	290.78	295.16	—
Job training and related services .....	833	8.40	8.37	8.57	8.63	—	266.28	260.31	268.24	270.98	—
Child day care services .....	835	7.46	7.44	7.30	7.67	—	222.31	221.71	222.65	229.33	—
Residential care .....	836	8.76	8.77	8.94	9.01	—	285.58	278.89	287.87	291.02	—
Social services, nec .....	839	10.42	10.32	10.75	10.81	—	334.48	329.21	338.63	347.00	—
Membership organizations:											
Professional organizations .....	862	16.88	16.80	17.70	17.91	—	592.49	581.28	621.27	625.06	—
Engineering and management services .....	87	16.68	16.53	16.97	17.19	—	625.50	609.96	632.98	639.47	—
Engineering and architectural services .....	871	18.23	18.12	18.67	18.89	—	723.73	712.12	737.47	744.27	—
Engineering services .....	8711	18.96	18.84	19.54	19.74	—	760.30	746.06	775.74	781.70	—
Architectural services .....	8712	16.54	16.36	16.61	16.85	—	633.48	620.04	642.81	643.67	—
Surveying services .....	8713	13.28	13.37	13.25	13.48	—	507.30	509.40	515.43	523.02	—
Accounting, auditing, and bookkeeping .....	872	14.48	14.34	14.63	14.87	—	521.28	506.20	523.75	527.89	—
Research and testing services .....	873	17.60	17.39	17.52	17.77	—	656.48	636.47	648.24	653.94	—
Commercial physical research .....	8731	19.87	19.62	19.59	19.70	—	816.66	790.69	787.52	789.97	—
Commercial nonphysical research .....	8732	13.63	13.56	13.54	14.00	—	419.80	410.87	426.51	434.00	—
Noncommercial research organizations .....	8733	20.30	20.22	20.54	20.81	—	745.01	731.96	759.98	759.57	—
Management and public relations .....	874	15.57	15.43	16.09	16.30	—	566.75	550.85	582.46	588.43	—
Management services .....	8741	13.92	13.93	14.67	14.86	—	501.12	493.12	517.85	526.04	—
Management consulting services .....	8742	17.74	17.35	17.95	18.28	—	640.41	617.66	656.97	663.56	—
Public relations services .....	8743	14.81	14.61	14.88	15.01	—	528.72	501.12	514.85	519.35	—
Services, nec .....	89	16.62	16.56	16.76	16.97	—	599.98	579.60	588.28	587.16	—

<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.

P = preliminary.

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

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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Aug. 1996	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Aug. 1996	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
Average hourly earnings excluding lump-sum payments .....	\$20.65	\$20.75	\$20.62	\$20.79	\$19.48	\$19.56	\$20.93	\$20.70
Average hourly earnings, including lump-sum payments .....	20.93	21.02	20.92	21.09	19.48	19.56	20.93	20.70

<sup>P</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Oct. 1997 <sup>P</sup>
<b>Manufacturing</b> .....	<b>\$12.17</b>	<b>\$12.15</b>	<b>\$12.42</b>	<b>\$12.47</b>	<b>\$12.54</b>
<b>Durable goods</b> .....	12.73	12.69	12.92	12.99	13.08
Lumber and wood products .....	10.01	10.01	10.23	10.30	(2)
Furniture and fixtures .....	9.83	9.86	10.12	10.21	(2)
Stone, clay, and glass products .....	12.06	12.04	12.30	12.34	(2)
Primary metal industries .....	14.09	14.06	14.09	14.14	(2)
Fabricated metal products .....	11.94	11.87	12.07	12.09	(2)
Industrial machinery and equipment .....	13.00	12.97	13.18	13.28	(2)
Electronic and other electrical equipment .....	11.74	11.76	12.13	12.21	(2)
Transportation equipment .....	16.21	16.16	16.33	16.42	(2)
Instruments and related products .....	12.70	12.69	12.91	13.03	(2)
Miscellaneous manufacturing .....	10.04	10.02	10.16	10.19	(2)
<b>Nondurable goods</b> .....	11.37	11.39	11.68	11.72	\$11.75
Food and kindred products .....	10.48	10.50	10.78	10.76	(2)
Tobacco products .....	17.22	16.97	19.03	17.42	(2)
Textile mill products .....	9.25	9.23	9.47	9.52	(2)
Apparel and other textile products .....	7.77	7.80	7.99	8.08	(2)
Paper and allied products .....	13.78	13.82	14.18	14.19	(2)
Printing and publishing .....	12.25	12.26	12.50	12.59	(2)
Chemicals and allied products .....	15.33	15.39	15.63	15.64	(2)
Petroleum and coal products .....	18.05	18.03	18.51	18.87	(2)
Rubber and misc. plastics products .....	10.71	10.72	10.97	11.01	(2)
Leather and leather products .....	8.44	8.45	8.66	8.78	(2)

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

<sup>2</sup> Not available.

P = preliminary.

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



**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P	Sept. 1996	Oct. 1996	Aug. 1997	Sept. 1997P	Oct. 1997P
<b>Total private:</b>										
Current dollars .....	\$11.95	\$11.95	\$12.21	\$12.39	\$12.43	\$417.06	\$412.28	\$427.35	\$429.93	\$430.08
Constant (1982) dollars .....	7.46	7.45	7.50	7.58	(2)	260.50	256.87	262.50	263.12	(2)
<b>Mining:</b>										
Current dollars .....	15.73	15.54	15.94	16.23	\$16.18	722.01	713.29	726.86	738.47	\$732.95
Constant (1982) dollars .....	9.83	9.68	9.79	9.93	(2)	450.97	444.42	446.47	451.94	(2)
<b>Construction:</b>										
Current dollars .....	15.75	15.75	16.09	16.27	\$16.30	625.28	628.43	638.77	650.80	\$645.48
Constant (1982) dollars .....	9.84	9.81	9.88	9.96	(2)	390.56	391.55	392.36	398.29	(2)
<b>Manufacturing:</b>										
Current dollars .....	12.90	12.83	13.15	13.24	\$13.29	545.67	537.58	552.30	561.38	\$560.84
Constant (1982) dollars .....	8.06	7.99	8.08	8.10	(2)	340.83	334.94	339.25	343.56	(2)
<b>Transportation and public utilities:</b>										
Current dollars .....	14.57	14.49	15.00	15.05	\$15.03	587.17	575.25	607.50	595.98	\$592.18
Constant (1982) dollars .....	9.10	9.03	9.21	9.21	(2)	366.75	358.41	373.16	364.74	(2)
<b>Wholesale trade:</b>										
Current dollars .....	13.03	12.94	13.47	13.52	\$13.54	502.96	495.60	518.60	519.17	\$521.29
Constant (1982) dollars .....	8.14	8.06	8.27	8.27	(2)	314.15	308.79	318.55	317.73	(2)
<b>Retail trade</b>										
Current dollars .....	8.06	8.12	8.29	8.44	\$8.45	234.55	233.04	246.21	244.76	\$243.36
Constant (1982) dollars .....	5.03	5.06	5.09	5.17	(2)	146.50	145.20	151.23	149.79	(2)
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	12.89	12.87	13.35	13.44	\$13.53	470.49	459.46	481.94	481.15	\$484.37
Constant (1982) dollars .....	8.05	8.02	8.20	8.23	(2)	293.87	286.27	296.03	294.46	(2)
<b>Services:</b>										
Current dollars .....	11.89	11.93	12.12	12.37	\$12.42	387.61	386.53	398.75	402.03	\$403.65
Constant (1982) dollars .....	7.43	7.43	7.44	7.57	(2)	242.10	240.83	244.93	246.04	(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 1996 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1996 forward are subject to revision.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Alabama</b> .....	42.1	41.7	42.2	\$11.54	\$11.72	\$11.82	\$485.83	\$488.72	\$498.80
Birmingham .....	43.0	44.1	44.4	12.36	12.70	12.70	531.48	560.07	563.88
Mobile .....	44.1	43.3	42.7	13.66	13.98	14.07	602.41	605.33	600.79
<b>Alaska</b> .....	53.5	48.5	52.1	11.41	11.42	12.56	610.43	553.87	654.38
<b>Arizona</b> .....	42.7	40.9	41.1	11.62	11.74	11.74	496.17	480.17	482.51
<b>Arkansas</b> .....	42.3	41.9	42.2	10.49	10.81	10.83	443.73	452.94	457.03
Fayetteville-Springdale-Rogers .....	41.3	41.4	41.9	9.69	10.47	10.35	400.20	433.46	433.67
Fort Smith .....	42.8	40.6	42.0	10.24	10.62	10.78	438.27	431.17	452.78
Little Rock-North Little Rock .....	42.9	42.5	42.1	11.27	11.57	11.50	483.48	491.73	484.15
Pine Bluff .....	42.6	44.3	42.7	12.03	12.34	12.67	512.48	546.66	541.01
<b>California</b> .....	42.0	42.2	42.2	12.94	13.23	13.31	543.48	558.31	561.68
Bakersfield .....	41.2	41.6	41.6	13.53	13.64	13.85	557.44	567.42	576.16
Fresno .....	42.1	41.5	41.6	10.99	11.64	11.71	462.68	483.06	487.14
Los Angeles-Long Beach .....	42.1	42.4	42.9	12.15	12.37	12.44	511.52	524.49	533.68
Modesto .....	41.6	40.3	40.2	12.73	13.07	13.15	529.57	528.72	528.63
Oakland .....	42.3	42.3	42.3	15.48	15.65	15.73	654.80	662.00	665.38
Orange County .....	42.1	42.9	42.8	12.67	12.97	12.95	533.41	556.41	554.26
Riverside-San Bernardino .....	41.8	42.2	42.4	11.64	11.93	11.99	486.55	503.45	508.38
Sacramento .....	41.5	41.3	41.7	13.93	14.32	14.59	578.10	591.42	608.40
Salinas .....	39.9	37.8	38.8	13.40	13.95	13.79	534.66	527.31	535.05
San Diego .....	39.8	40.1	40.0	12.91	13.36	13.45	513.82	535.74	538.00
San Francisco .....	41.1	41.0	41.1	14.06	14.38	14.43	577.87	589.58	593.07
San Jose .....	41.2	42.1	41.8	15.89	16.59	16.76	654.67	698.44	700.57
Santa Barbara-Santa Maria-Lompoc .....	41.6	40.6	40.6	13.20	13.59	13.77	549.12	551.75	559.06
Santa Rosa .....	40.5	40.2	40.0	14.45	14.96	15.04	585.23	601.39	601.60
Stockton-Lodi .....	44.8	44.4	44.7	12.70	13.09	13.15	568.96	581.20	587.81
Vallejo-Fairfield-Napa .....	43.5	40.8	42.6	14.60	14.93	15.08	635.10	609.14	642.41
Ventura .....	41.8	41.8	42.0	12.48	12.45	12.43	521.66	520.41	522.06
<b>Colorado</b> .....	42.5	42.0	42.5	12.89	13.52	13.48	547.83	567.84	572.90
Denver .....	42.2	41.8	42.3	12.89	13.36	13.41	543.96	558.45	567.24
<b>Connecticut</b> .....	43.1	42.2	43.0	14.06	14.52	14.62	605.99	612.74	628.66
Bridgeport .....	43.1	41.7	42.7	14.70	15.07	15.15	633.57	628.42	646.91
Danbury .....	45.2	45.2	45.3	14.72	14.69	14.78	665.34	663.99	669.53
Hartford .....	43.9	42.1	44.0	14.71	15.33	15.34	645.77	645.39	674.96
New Haven-Meriden .....	42.9	41.6	42.6	13.65	14.49	14.45	585.59	602.78	615.57
New London-Norwich .....	43.0	42.2	42.9	14.66	15.15	15.21	630.38	639.33	652.51
Stamford-Norwalk .....	41.6	40.2	41.1	14.43	13.76	13.71	600.29	553.15	563.48
Waterbury .....	44.7	43.1	43.4	13.15	13.74	13.64	587.81	592.19	591.98
<b>Delaware</b> .....	40.8	41.9	42.6	13.67	14.85	14.82	557.74	622.22	631.33
Dover .....	39.5	39.4	39.6	12.67	13.66	13.60	500.47	538.20	538.56
Wilmington-Newark .....	42.5	43.1	43.8	16.78	17.84	18.25	713.15	768.90	799.35
<b>District of Columbia:</b>									
Washington PMSA .....	39.0	39.1	39.6	13.68	14.28	14.09	533.52	558.35	557.96
<b>Florida</b> .....	41.5	41.7	41.7	10.61	10.82	10.84	440.32	451.19	452.03
<b>Georgia</b> .....	43.0	42.3	42.6	11.26	11.60	11.59	484.18	490.68	493.73
Atlanta .....	42.8	42.7	42.8	12.13	12.51	12.50	519.16	534.18	535.00
Savannah .....	49.5	48.7	49.4	13.93	14.26	14.17	689.54	694.46	700.00
<b>Hawaii</b> .....	39.3	38.9	37.2	13.07	12.88	13.40	513.65	475.27	498.48
Honolulu .....	39.7	38.2	38.0	13.21	13.04	13.17	524.44	498.13	500.46
<b>Idaho</b> .....	39.7	40.0	41.1	12.24	12.64	13.54	471.58	505.60	556.49
<b>Illinois</b> .....	41.8	42.3	42.5	13.12	13.44	13.45	548.42	568.51	571.63
Bloomington-Normal .....	45.7	41.8	41.6	18.57	17.66	17.42	848.65	738.19	724.67
Champaign-Urbana .....	41.0	40.5	40.6	10.80	11.31	11.41	442.80	458.06	463.25
Chicago .....	41.9	42.4	42.5	13.07	13.35	13.40	547.63	586.04	569.50
Davenport-Moline-Rock Island .....	41.7	42.5	43.7	14.94	15.29	15.30	623.00	649.83	668.61
Decatur .....	41.7	42.9	42.9	16.13	16.58	16.56	672.62	711.28	711.28
Kankakee .....	40.8	41.9	42.0	14.15	14.61	14.63	577.32	612.16	614.46
Peoria-Pekin .....	42.6	42.5	42.5	16.28	16.43	16.43	693.53	698.28	698.28
Rockford .....	41.9	42.2	42.4	14.83	15.25	15.23	621.38	643.55	645.75
Springfield .....	40.5	41.2	41.5	11.64	12.13	12.01	471.42	499.76	498.42

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>Indiana</b> .....	43.2	43.1	43.6	\$14.46	\$14.61	\$14.78	\$624.67	\$629.69	\$644.41
Bloomington .....	40.5	41.9	44.1	11.97	12.41	12.61	484.79	519.98	556.10
Elkhart-Goshen .....	39.8	39.7	39.6	12.20	12.24	12.28	485.56	485.93	486.29
Evansville-Henderson .....	42.2	43.7	43.6	14.03	15.09	15.00	592.07	659.43	654.00
Fort Wayne .....	42.0	41.1	41.2	14.35	14.48	14.43	602.70	595.13	594.52
Gary .....	42.1	42.1	42.2	18.74	18.35	18.29	788.95	772.54	771.84
Indianapolis .....	44.9	44.1	44.1	15.85	15.76	15.75	711.67	695.02	694.58
Kokomo .....	51.5	49.8	50.2	19.03	19.81	19.53	980.05	986.54	980.41
Lafayette .....	43.0	42.5	42.9	15.03	15.81	15.54	646.29	671.93	666.67
Muncie .....	43.2	43.5	43.2	14.56	14.54	14.47	628.99	632.49	625.10
South Bend .....	42.8	40.7	42.3	12.60	12.95	12.92	539.28	527.07	546.52
Terre Haute .....	44.0	43.3	44.0	14.02	14.82	14.56	616.88	641.71	640.64
<b>Iowa</b> .....	42.8	42.3	43.5	13.20	13.60	13.64	564.96	575.28	593.34
Cedar Rapids .....	42.6	41.9	43.8	15.75	16.71	17.19	670.95	700.15	752.92
Des Moines .....	41.5	41.6	44.3	13.59	14.01	13.58	563.99	582.82	601.59
Dubuque .....	42.3	42.5	42.9	14.37	14.71	14.76	607.85	625.18	633.20
Sioux City .....	41.5	40.0	39.1	10.66	11.48	11.41	442.39	459.20	446.13
<b>Kansas</b> .....	42.7	42.2	42.1	13.06	13.47	13.64	557.66	568.43	574.24
Topeka .....	41.0	39.5	38.8	14.18	15.37	14.97	581.38	607.12	580.84
Wichita .....	45.4	43.4	43.9	15.11	15.93	15.95	685.99	691.36	700.21
<b>Kentucky</b> .....	42.0	41.5	41.6	12.87	13.13	13.23	540.54	544.90	550.37
Lexington .....	42.6	42.9	43.3	13.73	14.40	14.53	584.90	617.76	629.15
Louisville .....	42.5	40.9	42.2	14.15	14.68	14.82	601.38	600.41	625.40
<b>Louisiana</b> .....	44.8	44.2	44.2	13.69	14.16	14.03	613.31	625.87	620.13
Baton Rouge .....	42.9	42.8	43.1	15.66	16.44	16.47	671.81	703.63	709.86
New Orleans .....	44.5	45.3	45.3	14.52	14.28	14.40	646.14	646.88	652.32
Shreveport-Bossier City .....	43.3	45.0	45.0	13.86	14.14	14.35	600.14	636.30	645.75
<b>Maine</b> .....	40.6	40.6	41.1	12.87	12.86	13.00	522.52	522.12	534.30
Lewiston-Auburn .....	40.5	41.6	42.8	11.50	11.33	11.56	465.75	471.33	494.77
Portland .....	40.0	37.1	38.0	11.35	11.00	11.09	454.00	408.10	421.42
<b>Maryland</b> .....	41.7	41.8	41.2	13.88	14.33	14.17	578.80	596.13	583.80
Baltimore PMSA .....	42.4	41.8	41.1	14.81	15.12	14.88	627.94	632.02	611.57
<b>Massachusetts</b> .....	42.3	42.2	42.6	13.09	13.38	13.47	553.71	564.64	573.82
Boston .....	42.2	41.7	42.2	14.20	14.57	14.59	599.24	607.57	615.70
Springfield .....	43.1	41.8	43.7	12.56	12.87	12.93	541.34	537.97	565.04
Worcester .....	42.6	43.3	43.6	12.95	13.45	13.44	551.67	582.39	585.98
<b>Michigan</b> .....	45.2	44.3	44.8	16.96	17.00	17.18	767.50	753.10	769.66
Ann Arbor .....	47.8	45.8	46.8	17.19	17.83	17.96	821.68	816.61	840.53
Detroit .....	46.0	45.3	45.8	18.55	18.43	18.70	853.30	834.88	856.46
Flint .....	48.7	46.3	45.4	22.27	21.94	21.89	1,018.55	1,015.82	993.81
Grand Rapids-Muskegon-Holland .....	42.8	42.5	43.1	14.50	14.53	14.56	620.60	617.52	627.54
Jackson .....	42.2	42.1	42.2	12.75	13.12	13.16	538.05	552.35	555.35
Kalamazoo-Battle Creek .....	43.8	44.7	44.7	15.39	14.78	15.03	674.08	660.67	671.84
Lansing East Lansing .....	46.7	43.6	44.5	18.62	18.36	17.91	869.55	800.50	796.99
Saginaw-Bay City-Midland .....	48.8	47.9	47.7	19.90	20.22	20.30	971.12	968.54	968.31
<b>Minnesota</b> .....	42.4	41.9	42.3	13.24	13.58	13.70	561.38	569.00	579.51
Duluth-Superior .....	40.6	39.4	39.2	11.54	12.19	12.42	468.52	480.29	486.86
Minneapolis-St. Paul .....	42.2	42.0	42.1	14.15	14.46	14.66	597.13	607.32	617.19
St. Cloud .....	40.6	43.9	44.1	12.31	12.47	12.64	499.79	547.43	557.42
<b>Mississippi</b> .....	41.8	41.2	42.0	10.28	10.44	10.47	429.70	430.13	439.74
Jackson .....	43.6	41.0	41.5	11.84	11.78	11.75	507.50	482.98	487.63
<b>Missouri</b> .....	42.0	41.4	41.6	12.70	12.86	12.75	533.40	532.40	530.40
Kansas City .....	44.2	44.5	44.3	14.42	13.92	13.84	637.36	619.44	613.11
St. Louis .....	42.6	42.0	42.2	15.15	15.03	15.02	645.39	631.26	633.84
Springfield .....	41.6	40.0	39.9	10.87	11.06	10.93	452.19	442.40	436.11
<b>Montana</b> .....	39.7	40.1	40.7	13.09	13.36	13.48	519.67	535.74	548.64
<b>Nebraska</b> .....	42.3	42.0	42.7	11.64	12.12	12.03	492.37	509.04	513.68
Lincoln .....	44.6	46.6	47.9	13.25	13.65	13.64	590.95	636.09	653.36
Omaha .....	42.0	41.1	42.3	12.82	13.44	13.81	538.44	552.38	584.18
<b>Nevada</b> .....	42.8	41.6	43.6	13.41	13.88	13.91	573.95	576.58	606.48
Las Vegas .....	40.2	39.4	41.2	13.66	14.54	14.76	549.13	572.88	608.11

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P	Sept. 1996	August 1997	Sept. 1997P
<b>New Hampshire</b> .....	42.6	41.4	41.7	\$12.35	\$12.46	\$12.51	\$526.11	\$515.84	\$521.67
Manchester .....	42.2	39.2	40.7	13.33	13.59	13.65	562.53	532.73	555.56
Nashua .....	42.3	41.0	41.0	14.86	14.63	14.75	628.58	599.83	604.75
Portsmouth-Rochester .....	41.7	42.4	41.6	11.70	11.59	11.62	487.89	491.42	483.39
<b>New Jersey</b> .....	42.2	41.8	42.2	13.84	14.15	14.26	584.05	591.47	601.77
<b>New Mexico</b> .....	40.7	41.0	42.0	10.70	11.18	10.95	435.49	457.56	459.90
Albuquerque .....	40.5	41.5	42.1	11.71	13.30	13.13	474.26	551.95	552.77
<b>New York</b> .....	41.8	41.2	41.7	12.88	13.21	13.30	535.81	544.25	554.61
Albany-Schenectady-Troy .....	41.5	42.0	42.3	14.25	14.71	14.85	591.38	617.82	628.18
Binghamton .....	42.5	38.8	41.4	10.23	10.56	10.83	434.78	409.73	448.36
Buffalo-Niagara Falls .....	43.9	42.6	43.1	16.46	18.68	17.08	722.59	710.57	736.15
Dutchess County .....	37.2	38.9	39.6	11.71	12.17	12.27	435.61	473.41	485.89
Elmira .....	42.4	42.2	43.0	11.93	12.16	12.28	505.83	513.15	528.04
Nassau-Suffolk .....	40.5	40.5	41.0	11.68	12.10	12.11	473.04	490.05	496.51
New York PMSA .....	38.9	38.8	39.2	11.53	12.00	12.06	448.52	465.60	472.75
New York City .....	38.6	38.5	38.9	11.33	11.78	11.83	437.34	453.53	460.19
Newburgh .....	40.1	41.9	42.1	11.19	11.20	11.44	448.72	469.28	481.62
Rochester .....	44.9	43.2	43.6	14.38	14.98	14.87	645.66	647.14	648.33
Rockland County .....	42.6	42.1	42.6	15.13	15.69	15.71	644.54	660.55	669.25
Syracuse .....	44.1	42.6	43.4	13.89	14.12	14.26	612.55	601.51	618.88
Utica-Rome .....	40.1	39.8	40.3	11.88	11.50	11.55	468.37	457.70	465.47
Westchester County .....	41.1	40.6	41.2	11.93	12.54	12.57	490.32	509.12	517.88
<b>North Carolina</b> .....	41.1	41.2	41.6	11.06	11.40	11.43	454.57	469.68	475.49
Asheville .....	41.4	42.2	42.3	10.66	11.20	11.31	441.32	472.64	478.41
Charlotte-Gastonia-Rock Hill .....	41.1	41.4	41.5	12.02	12.34	12.35	494.02	510.88	512.53
Greensboro-Winston-Salem-High Point .....	40.3	40.8	40.8	11.37	11.87	11.85	458.21	484.30	483.48
Raleigh-Durham-Chapel Hill .....	41.4	41.4	42.4	12.09	12.57	12.59	500.53	520.40	533.82
<b>North Dakota</b> .....	42.7	40.6	40.9	11.16	11.24	11.40	476.53	456.34	466.26
Fargo-Moorhead .....	43.3	42.7	42.5	10.98	11.50	11.67	475.43	491.05	495.98
<b>Ohio</b> .....	44.1	43.4	43.9	14.94	15.15	15.33	658.85	657.51	672.99
Akron .....	42.1	42.1	42.6	12.35	12.57	12.68	519.94	529.20	540.17
Canton-Massillon .....	41.2	42.0	41.8	13.52	13.68	14.01	557.02	574.56	585.62
Cincinnati .....	44.0	43.4	44.1	14.54	14.56	14.62	639.76	631.90	644.74
Cleveland-Lorain-Elyria .....	43.7	43.8	43.6	15.04	15.22	15.10	657.25	666.64	658.36
Columbus .....	42.3	42.5	43.1	13.80	14.58	14.72	583.74	618.80	634.43
Dayton-Springfield .....	45.0	45.0	45.6	16.04	16.04	16.35	721.80	721.60	745.56
Hamilton-Middletown .....	46.1	45.7	47.2	16.58	16.89	17.01	764.34	771.87	802.87
Lima .....	43.5	43.3	44.2	15.74	16.26	16.33	684.69	704.06	721.79
Mansfield .....	44.3	42.8	43.3	15.70	16.05	16.34	695.51	686.94	707.52
Steubenville-Weirton .....	42.9	41.9	42.1	16.52	15.93	16.54	708.71	667.47	696.33
Toledo .....	44.9	42.7	45.4	16.73	16.19	16.73	751.18	691.31	759.54
Youngstown-Warren .....	44.1	43.4	43.0	16.25	16.72	17.08	716.63	725.65	734.44
<b>Oklahoma</b> .....	42.1	42.0	42.1	11.88	12.13	12.45	500.15	509.46	524.15
Oklahoma City .....	43.6	42.5	42.5	13.23	12.74	12.77	576.83	541.45	542.73
Tulsa .....	42.2	42.3	42.3	12.76	12.77	12.74	538.47	540.17	538.90
<b>Oregon</b> .....	40.8	41.2	40.9	13.06	13.25	13.39	532.85	545.90	547.65
Eugene-Springfield .....	39.9	39.1	39.3	12.97	12.63	12.70	517.50	493.83	499.11
Medford-Ashland .....	41.4	39.1	40.2	12.20	12.67	12.58	505.08	495.40	505.72
Portland-Vancouver .....	41.2	41.9	41.8	13.40	13.41	13.66	552.08	561.88	570.99
Salem .....	39.2	41.0	39.7	11.42	11.67	11.87	447.66	478.47	471.24
<b>Pennsylvania</b> .....	42.2	42.1	42.7	13.45	13.74	13.82	567.59	578.45	590.11
Allentown-Bethlem-Easton .....	42.4	42.6	42.5	13.36	13.89	14.04	566.46	591.71	596.70
Altoona .....	40.6	40.7	41.6	11.22	11.57	11.72	455.53	470.90	487.55
Erie .....	45.0	45.1	45.6	14.08	14.45	14.47	633.90	651.70	659.83
Harrisburg-Lebanon-Carlisle .....	40.2	39.8	40.8	12.95	13.33	13.36	520.59	530.53	545.09
Johnstown .....	39.7	39.5	39.2	10.03	10.17	10.24	398.19	401.72	401.41
Lancaster .....	40.8	40.6	41.2	13.02	13.01	13.06	531.22	528.21	538.07
Philadelphia PMSA .....	41.4	41.3	41.6	14.43	14.74	14.86	597.40	608.76	618.18
Pittsburgh .....	43.4	43.0	43.3	14.55	14.71	14.84	631.47	632.53	642.57
Reading .....	42.5	42.2	42.5	14.50	14.91	14.97	616.25	629.20	636.23
Scranton-Wilkes-Barre-Hazleton .....	40.8	41.0	41.6	11.96	12.40	12.36	487.97	508.40	514.18
Sharon .....	44.6	41.9	44.0	14.26	14.52	14.93	636.00	608.39	656.92
State College .....	43.0	41.9	41.5	11.24	11.64	11.82	483.32	496.10	490.53
Williamsport .....	41.6	41.6	41.2	11.06	10.51	10.69	460.10	437.22	440.43
York .....	42.1	42.6	44.2	13.39	13.96	14.35	563.72	598.34	634.27

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	August 1997	Sept. 1997 <sup>P</sup>
<b>Rhode Island</b> .....	40.7	40.5	41.7	\$10.96	\$11.33	\$11.29	\$446.07	\$458.87	\$470.79
Providence-Fall River-Warwick .....	41.3	41.3	42.5	10.98	11.50	11.35	453.47	474.95	482.38
<b>South Carolina</b> .....	42.0	42.3	42.5	10.28	10.38	10.40	431.76	439.07	442.00
<b>South Dakota</b> .....	41.6	41.9	42.0	9.89	10.00	10.01	411.42	419.00	420.42
Rapid City .....	40.4	41.1	41.4	9.57	9.89	9.95	386.63	406.48	411.93
Sioux Falls .....	41.6	42.0	42.2	10.00	10.39	10.40	416.00	436.38	438.88
<b>Tennessee</b> .....	41.4	41.8	41.9	11.32	11.80	11.76	468.65	493.24	492.74
Chattanooga .....	41.5	41.8	41.7	10.75	10.94	10.80	446.13	457.29	450.36
Johnson City-Kingsport-Bristol .....	40.6	41.0	41.0	12.38	12.67	12.64	502.63	519.47	518.24
Knoxville .....	41.2	41.9	41.8	11.02	11.23	11.36	454.02	470.54	474.85
Memphis .....	42.2	41.6	41.2	11.71	12.17	12.16	494.16	506.27	500.99
Nashville .....	41.7	41.0	41.1	12.06	12.68	12.67	502.90	519.88	520.74
<b>Texas</b> .....	43.4	43.5	43.9	11.85	12.08	12.12	514.29	525.48	532.07
Dallas .....	44.1	43.5	44.1	11.65	12.10	12.07	513.77	526.35	532.29
Ft. Worth-Arlington .....	42.5	44.2	44.3	12.56	12.94	13.08	533.80	571.95	579.44
Houston .....	45.3	45.7	46.3	13.93	14.04	14.05	631.03	641.63	650.52
San Antonio .....	41.4	40.9	41.7	9.48	9.61	9.66	392.47	393.05	402.82
<b>Utah</b> .....	41.1	40.4	40.7	12.48	12.75	12.87	512.93	515.10	523.81
Salt Lake City-Ogden .....	40.8	40.4	40.7	12.41	12.85	12.78	506.33	519.14	520.15
<b>Vermont</b> .....	41.0	41.2	42.1	12.55	12.89	12.87	514.55	531.07	541.83
Burlington .....	43.7	44.8	46.1	12.67	13.79	13.16	553.68	617.79	606.68
<b>Virginia</b> .....	42.6	42.5	42.4	12.23	12.57	12.60	521.00	534.23	534.24
Bristol .....	42.4	38.7	40.1	10.09	10.50	10.50	427.82	406.35	421.05
Charlottesville .....	41.8	45.3	44.3	10.01	10.25	10.38	418.42	464.33	459.83
Danville .....	43.4	44.2	44.4	11.61	12.52	12.52	503.87	553.38	555.69
Lynchburg .....	42.0	42.9	43.0	11.86	12.29	12.18	498.12	527.24	523.74
Northern Virginia .....	40.6	41.6	40.9	12.65	12.77	12.73	513.59	531.23	520.66
Richmond-Petersburg .....	43.4	42.8	42.5	15.96	15.91	16.03	692.68	680.95	681.28
Roanoke .....	39.6	40.1	40.8	13.30	13.81	13.86	529.34	553.78	565.49
<b>Washington</b> .....	41.7	40.7	41.6	14.67	15.07	15.31	611.74	613.35	636.90
<b>West Virginia</b> .....	41.7	41.4	42.1	12.97	13.15	13.13	540.85	544.41	552.77
Charleston .....	47.2	46.5	46.8	14.12	14.66	14.83	666.46	681.69	694.04
Huntington-Ashland .....	42.1	44.3	44.2	14.21	15.34	14.69	598.24	679.56	649.30
Parkersburg-Marietta .....	43.8	45.0	44.5	16.63	16.50	16.64	728.39	742.50	740.48
Wheeling .....	41.4	40.1	37.7	16.35	15.06	15.28	676.89	603.91	576.06
<b>Wisconsin</b> .....	42.9	42.4	43.2	13.21	13.57	13.67	566.71	575.37	590.54
Appleton-Oshkosh-Neenah .....	44.1	44.0	44.5	14.51	14.76	14.80	639.89	649.44	658.60
Eau Claire .....	45.2	41.3	41.2	12.64	12.61	12.26	571.33	520.79	505.11
Green Bay .....	42.8	41.7	42.3	14.34	15.06	14.64	613.75	628.00	619.27
Janesville-Beloit .....	46.3	44.8	45.9	16.54	17.21	17.23	765.80	771.01	790.86
Kenosha .....	40.4	39.1	40.3	14.26	14.31	14.81	576.10	559.52	596.84
La Crosse .....	40.0	40.3	41.9	11.16	11.52	11.37	446.40	464.26	476.40
Madison .....	42.7	42.5	43.3	12.43	12.59	12.97	530.76	535.08	561.60
Milwaukee-Waukesha .....	42.2	41.9	42.3	14.44	14.99	15.04	609.37	628.08	636.19
Racine .....	42.1	41.7	42.7	13.84	14.09	14.13	582.66	587.55	603.35
Sheboygan .....	44.5	42.1	43.5	12.92	12.79	13.03	574.94	538.46	566.81
Wausau .....	44.4	43.4	44.4	12.90	13.10	13.25	572.76	568.54	588.30
<b>Wyoming</b> .....	40.7	41.0	41.0	13.98	14.80	15.25	568.99	606.80	625.25
<b>Puerto Rico</b> .....	29.8	39.7	39.9	8.15	8.13	8.26	242.87	322.76	329.57
<b>Virgin Islands</b> .....	38.0	42.4	43.3	17.68	17.94	18.32	671.84	760.66	793.26

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

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1996 benchmarks.

**HOUSEHOLD DATA  
REGIONS AND DIVISIONS  
NOT SEASONALLY ADJUSTED**

**C-1. Employment status of the civilian population for census regions and divisions, seasonally adjusted<sup>1</sup>**

(Numbers in thousands)

Census region and division	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.
<b>NORTHEAST</b>													
Civilian noninstitutional population <sup>2</sup> .....	39,780	39,788	39,794	39,798	39,788	39,783	39,784	39,784	39,788	39,791	39,799	39,811	39,818
Civilian labor force .....	25,827	25,859	25,844	26,120	26,155	26,046	26,137	26,279	26,243	26,258	26,118	26,141	26,032
Employed .....	24,432	24,442	24,413	24,610	24,698	24,610	24,720	24,820	24,755	24,812	24,745	24,745	24,657
Unemployed .....	1,394	1,417	1,431	1,510	1,458	1,436	1,417	1,459	1,488	1,446	1,373	1,396	1,375
Unemployment rate .....	5.4	5.5	5.5	5.8	5.6	5.5	5.4	5.6	5.7	5.5	5.3	5.3	5.3
<b>New England</b>													
Civilian noninstitutional population <sup>2</sup> .....	10,329	10,333	10,339	10,342	10,341	10,343	10,346	10,348	10,353	10,355	10,361	10,367	10,371
Civilian labor force .....	7,059	7,077	7,047	7,113	7,056	7,111	7,225	7,203	7,246	7,210	7,148	7,136	7,135
Employed .....	6,727	6,753	6,705	6,774	6,758	6,780	6,875	6,824	6,907	6,904	6,843	6,867	6,834
Unemployed .....	333	324	342	339	298	331	349	379	338	306	304	269	301
Unemployment rate .....	4.7	4.6	4.9	4.8	4.2	4.7	4.8	5.3	4.7	4.2	4.3	3.8	4.2
<b>Middle Atlantic</b>													
Civilian noninstitutional population <sup>2</sup> .....	29,451	29,455	29,455	29,456	29,447	29,440	29,438	29,436	29,435	29,435	29,438	29,444	29,447
Civilian labor force .....	18,768	18,783	18,797	19,008	19,099	18,935	18,912	19,076	18,998	19,048	18,970	19,005	18,897
Employed .....	17,706	17,690	17,709	17,836	17,939	17,830	17,844	17,996	17,848	17,908	17,902	17,878	17,823
Unemployed .....	1,062	1,093	1,089	1,171	1,160	1,105	1,068	1,080	1,150	1,140	1,068	1,127	1,075
Unemployment rate .....	5.7	5.8	5.8	6.2	6.1	5.8	5.6	5.7	6.1	6.0	5.6	5.9	5.7
<b>SOUTH</b>													
Civilian noninstitutional population <sup>2</sup> .....	70,878	70,963	71,046	71,129	71,187	71,250	71,328	71,404	71,482	71,561	71,652	71,743	71,832
Civilian labor force .....	47,040	46,960	47,135	47,096	47,108	47,450	47,082	47,311	47,253	47,067	47,187	47,192	47,044
Employed .....	44,580	44,447	44,700	44,726	44,522	44,900	44,871	44,965	44,835	44,731	44,816	44,895	44,893
Unemployed .....	2,461	2,513	2,436	2,371	2,586	2,550	2,211	2,346	2,418	2,336	2,372	2,297	2,151
Unemployment rate .....	5.2	5.4	5.2	5.0	5.5	5.4	4.7	5.0	5.1	5.0	5.0	4.9	4.6
<b>South Atlantic</b>													
Civilian noninstitutional population <sup>2</sup> .....	36,604	36,647	36,689	36,731	36,759	36,790	36,829	36,867	36,905	36,946	36,991	37,037	37,081
Civilian labor force .....	24,176	24,142	24,214	24,335	24,157	24,451	24,346	24,509	24,568	24,343	24,503	24,366	24,244
Employed .....	22,997	22,987	23,017	23,155	22,889	23,266	23,217	23,384	23,423	23,343	23,359	23,326	23,319
Unemployed .....	1,179	1,155	1,197	1,181	1,268	1,185	1,129	1,125	1,166	1,000	1,144	1,040	924
Unemployment rate .....	4.9	4.8	4.9	4.9	5.2	4.8	4.6	4.6	4.7	4.1	4.7	4.3	3.8
<b>East South Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	12,453	12,466	12,478	12,492	12,501	12,509	12,522	12,533	12,546	12,557	12,571	12,586	12,600
Civilian labor force .....	8,123	8,103	8,133	8,051	8,135	8,177	8,134	8,004	8,000	8,016	7,934	8,076	8,000
Employed .....	7,612	7,582	7,673	7,590	7,686	7,713	7,745	7,622	7,566	7,563	7,477	7,588	7,570
Unemployed .....	510	520	460	461	448	464	389	382	433	452	457	488	430
Unemployment rate .....	6.3	6.4	5.7	5.7	5.5	5.7	4.8	4.8	5.4	5.6	5.8	6.0	5.4
<b>West South Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	21,821	21,850	21,879	21,907	21,928	21,952	21,978	22,003	22,031	22,058	22,089	22,120	22,151
Civilian labor force .....	14,742	14,716	14,789	14,710	14,816	14,822	14,603	14,798	14,665	14,708	14,750	14,750	14,801
Employed .....	13,971	13,878	14,009	13,982	13,947	13,921	13,909	13,959	13,846	13,825	13,979	13,981	14,003
Unemployed .....	772	838	779	729	869	901	694	839	820	884	770	769	797
Unemployment rate .....	5.2	5.7	5.3	5.0	5.9	6.1	4.8	5.7	5.6	6.0	5.2	5.2	5.4

See footnotes at end of table.

**HOUSEHOLD DATA  
REGIONS AND DIVISIONS  
NOT SEASONALLY ADJUSTED**

**C-1. Employment status of the civilian population for census regions and divisions, seasonally adjusted<sup>1</sup> — Continued**

(Numbers in thousands)

Census region and division	1996			1997									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.
<b>MIDWEST</b>													
Civilian noninstitutional population <sup>2</sup> .....	46,992	47,025	47,054	47,085	47,098	47,115	47,139	47,164	47,190	47,218	47,252	47,289	47,323
Civilian labor force .....	32,690	32,778	32,723	32,588	32,593	32,727	32,730	32,701	32,871	32,824	32,993	33,102	33,140
Employed .....	31,248	31,267	31,245	31,157	31,202	31,417	31,375	31,506	31,607	31,640	31,699	31,716	31,745
Unemployed .....	1,442	1,512	1,478	1,431	1,391	1,310	1,354	1,195	1,264	1,185	1,294	1,387	1,394
Unemployment rate .....	4.4	4.6	4.5	4.4	4.3	4.0	4.1	3.7	3.8	3.6	3.9	4.2	4.2
<b>East North Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	33,086	33,107	33,126	33,145	33,152	33,162	33,177	33,192	33,208	33,226	33,247	33,271	33,293
Civilian labor force .....	22,561	22,634	22,613	22,576	22,588	22,737	22,659	22,579	22,733	22,649	22,805	22,910	22,942
Employed .....	21,521	21,579	21,529	21,557	21,560	21,742	21,671	21,726	21,832	21,749	21,878	21,908	21,935
Unemployed .....	1,041	1,055	1,083	1,019	1,028	996	988	853	901	899	927	1,001	1,007
Unemployment rate .....	4.6	4.7	4.8	4.5	4.6	4.4	4.4	3.8	4.0	4.0	4.1	4.4	4.4
<b>West North Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	13,906	13,918	13,928	13,940	13,946	13,953	13,962	13,972	13,982	13,992	14,004	14,018	14,030
Civilian labor force .....	10,129	10,144	10,110	10,012	10,005	9,990	10,071	10,122	10,137	10,176	10,189	10,193	10,198
Employed .....	9,727	9,687	9,715	9,600	9,642	9,675	9,704	9,780	9,775	9,890	9,821	9,807	9,810
Unemployed .....	402	456	395	412	363	315	367	341	363	285	368	385	387
Unemployment rate .....	4.0	4.5	3.9	4.1	3.6	3.1	3.6	3.4	3.6	2.8	3.6	3.8	3.8
<b>WEST</b>													
Civilian noninstitutional population <sup>2</sup> .....	44,087	44,151	44,213	44,274	44,316	44,366	44,424	44,481	44,539	44,597	44,661	44,728	44,794
Civilian labor force .....	29,544	29,684	29,680	29,848	29,704	29,992	30,031	29,833	29,868	30,000	30,258	30,191	30,252
Employed .....	27,691	27,791	27,800	28,050	28,005	28,198	28,311	28,236	28,205	28,425	28,568	28,484	28,624
Unemployed .....	1,853	1,894	1,880	1,798	1,699	1,794	1,720	1,597	1,663	1,576	1,690	1,707	1,628
Unemployment rate .....	6.3	6.4	6.3	6.0	5.7	6.0	5.7	5.4	5.6	5.3	5.6	5.7	5.4
<b>Mountain</b>													
Civilian noninstitutional population <sup>2</sup> .....	12,199	12,229	12,258	12,287	12,309	12,334	12,362	12,390	12,418	12,446	12,474	12,505	12,535
Civilian labor force .....	8,325	8,391	8,439	8,430	8,320	8,398	8,406	8,411	8,439	8,578	8,563	8,540	8,643
Employed .....	7,904	7,983	8,022	8,034	7,927	8,005	8,041	8,033	8,064	8,250	8,203	8,232	8,308
Unemployed .....	421	408	417	395	393	393	365	378	375	328	360	308	335
Unemployment rate .....	5.1	4.9	4.9	4.7	4.7	4.7	4.3	4.5	4.4	3.8	4.2	3.6	3.9
<b>Pacific</b>													
Civilian noninstitutional population <sup>2</sup> .....	31,888	31,922	31,955	31,987	32,007	32,032	32,062	32,091	32,121	32,150	32,187	32,223	32,259
Civilian labor force .....	21,219	21,293	21,241	21,418	21,383	21,594	21,625	21,422	21,430	21,423	21,695	21,651	21,610
Employed .....	19,787	19,808	19,778	20,015	20,076	20,193	20,270	20,203	20,141	20,175	20,365	20,252	20,316
Unemployed .....	1,432	1,486	1,463	1,403	1,306	1,400	1,355	1,219	1,288	1,248	1,329	1,399	1,294
Unemployment rate .....	6.7	7.0	6.9	6.6	6.1	6.5	6.3	5.7	6.0	5.8	6.1	6.5	6.0

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

<sup>2</sup> The population figures are not adjusted for seasonal variation.  
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	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
<b>Alabama</b>													
Civilian labor force .....	2,091.6	2,095.1	2,097.3	2,096.7	2,088.3	2,096.1	2,105.8	2,098.9	2,099.9	2,095.7	2,108.6	2,109.2	2,117.0
Employed .....	1,989.7	1,995.2	2,000.0	2,002.6	1,996.6	2,003.4	2,010.2	2,006.1	2,002.0	2,000.9	2,009.2	2,009.0	2,012.3
Unemployed .....	101.9	99.9	97.3	94.1	91.8	92.7	95.6	92.8	97.9	94.9	99.4	100.2	104.7
Unemployment rate .....	4.9	4.8	4.6	4.5	4.4	4.4	4.5	4.4	4.7	4.5	4.7	4.8	4.9
<b>Alaska</b>													
Civilian labor force .....	318.5	319.2	319.9	320.9	320.6	322.1	323.4	323.8	322.0	321.4	322.9	324.0	324.7
Employed .....	293.8	294.2	294.8	295.4	296.5	297.8	298.1	298.1	299.9	299.2	299.5	299.4	300.3
Unemployed .....	24.7	25.0	25.1	25.5	24.1	24.5	25.3	25.7	22.1	22.2	23.4	24.6	24.4
Unemployment rate .....	7.8	7.8	7.8	7.9	7.5	7.6	7.8	7.9	6.9	6.9	7.3	7.6	7.5
<b>Arizona</b>													
Civilian labor force .....	2,256.8	2,257.6	2,262.3	2,262.5	2,293.9	2,278.5	2,273.8	2,272.6	2,281.6	2,268.2	2,282.9	2,291.8	2,291.0
Employed .....	2,126.5	2,129.4	2,136.6	2,139.6	2,173.9	2,161.8	2,163.5	2,164.6	2,174.2	2,169.3	2,186.2	2,190.5	2,193.7
Unemployed .....	130.3	128.2	125.7	122.9	120.0	116.8	110.3	108.0	107.4	98.9	96.6	101.3	97.3
Unemployment rate .....	5.8	5.7	5.6	5.4	5.2	5.1	4.8	4.8	4.7	4.4	4.2	4.4	4.2
<b>Arkansas</b>													
Civilian labor force .....	1,239.1	1,239.4	1,239.6	1,239.7	1,242.5	1,245.2	1,250.2	1,241.3	1,238.6	1,244.6	1,247.8	1,246.4	1,243.9
Employed .....	1,169.1	1,170.3	1,171.4	1,173.2	1,175.8	1,177.7	1,182.1	1,183.7	1,181.7	1,180.1	1,179.1	1,179.7	1,179.5
Unemployed .....	70.0	69.1	68.2	66.5	66.7	67.5	68.1	57.6	56.9	64.4	68.7	66.7	64.3
Unemployment rate .....	5.6	5.6	5.5	5.4	5.4	5.4	5.4	4.6	4.6	5.2	5.5	5.3	5.2
<b>California</b>													
Civilian labor force .....	15,664.1	15,669.0	15,684.6	15,665.0	15,770.7	15,785.3	15,839.2	15,874.2	15,848.5	15,833.8	15,874.2	15,918.6	15,910.2
Employed .....	14,557.4	14,573.6	14,594.8	14,598.4	14,687.0	14,745.9	14,792.5	14,836.0	14,842.0	14,840.1	14,887.3	14,924.7	14,910.2
Unemployed .....	1,106.8	1,095.3	1,089.8	1,066.6	1,083.7	1,039.4	1,046.7	1,038.3	1,006.4	993.7	987.0	993.8	1,000.1
Unemployment rate .....	7.1	7.0	6.9	6.8	6.9	6.6	6.6	6.5	6.4	6.3	6.2	6.2	6.3
<b>Colorado</b>													
Civilian labor force .....	2,097.8	2,099.5	2,101.6	2,100.4	2,129.0	2,131.8	2,144.4	2,149.8	2,140.2	2,151.7	2,168.6	2,167.0	2,176.1
Employed .....	2,009.5	2,012.5	2,015.8	2,015.9	2,050.0	2,064.6	2,075.3	2,078.4	2,065.7	2,076.9	2,101.3	2,097.8	2,102.5
Unemployed .....	88.3	87.0	85.8	84.5	79.0	67.3	69.1	71.4	74.5	74.8	67.3	69.2	73.6
Unemployment rate .....	4.2	4.1	4.1	4.0	3.7	3.2	3.2	3.3	3.5	3.5	3.1	3.2	3.4
<b>Connecticut</b>													
Civilian labor force .....	1,721.5	1,724.1	1,723.3	1,722.0	1,735.6	1,731.4	1,732.6	1,741.5	1,741.7	1,749.2	1,746.6	1,741.5	1,742.8
Employed .....	1,622.9	1,624.4	1,624.0	1,623.0	1,645.9	1,646.0	1,646.9	1,651.7	1,651.2	1,657.7	1,663.1	1,661.7	1,663.5
Unemployed .....	98.5	99.6	99.3	99.0	89.7	85.4	85.7	89.8	90.5	91.5	83.5	79.8	79.3
Unemployment rate .....	5.7	5.8	5.8	5.7	5.2	4.9	4.9	5.2	5.2	5.2	4.8	4.6	4.6
<b>Delaware</b>													
Civilian labor force .....	382.4	383.4	383.9	384.4	393.1	393.2	393.6	390.7	389.4	390.9	391.2	390.8	390.1
Employed .....	361.9	362.9	363.5	364.2	373.6	374.5	375.2	374.4	373.5	374.0	374.3	374.4	375.5
Unemployed .....	20.5	20.5	20.5	20.2	19.4	18.6	18.4	16.3	15.8	16.9	16.9	16.3	14.5
Unemployment rate .....	5.4	5.4	5.3	5.3	4.9	4.7	4.7	4.2	4.1	4.3	4.3	4.2	3.7
<b>District of Columbia</b>													
Civilian labor force .....	270.5	270.1	269.5	270.0	267.6	266.1	269.2	266.7	266.8	256.6	257.2	262.0	262.3
Employed .....	247.4	247.3	247.5	247.3	246.7	246.4	248.1	247.5	248.6	239.4	238.3	241.0	241.0
Unemployed .....	23.1	22.7	22.0	22.7	20.9	19.7	21.1	19.3	18.2	17.2	19.0	21.0	21.3
Unemployment rate .....	8.5	8.4	8.2	8.4	7.8	7.4	7.8	7.2	6.8	6.7	7.4	8.0	8.1
<b>Florida</b>													
Civilian labor force .....	6,959.4	6,974.0	6,982.6	6,997.1	7,100.2	7,094.6	7,098.3	7,099.6	7,144.3	7,144.3	7,143.9	7,177.5	7,182.1
Employed .....	6,610.4	6,628.6	6,639.0	6,656.1	6,752.6	6,748.1	6,741.8	6,742.5	6,785.0	6,789.8	6,813.2	6,837.4	6,844.8
Unemployed .....	349.0	345.3	343.6	340.9	347.6	346.5	356.5	357.1	359.2	354.5	330.7	340.1	337.2
Unemployment rate .....	5.0	5.0	4.9	4.9	4.9	4.9	5.0	5.0	5.0	5.0	4.6	4.7	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	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
<b>Georgia</b>													
Civilian labor force .....	3,777.9	3,787.9	3,798.0	3,803.6	3,826.3	3,835.0	3,842.1	3,846.9	3,853.6	3,870.3	3,870.1	3,901.4	3,905.2
Employed .....	3,601.9	3,613.7	3,621.3	3,625.3	3,648.8	3,655.3	3,663.2	3,680.1	3,680.5	3,699.9	3,701.1	3,730.7	3,729.5
Unemployed .....	176.0	174.3	176.8	178.2	177.7	179.7	178.9	166.7	173.1	170.4	169.0	170.7	175.6
Unemployment rate .....	4.7	4.6	4.7	4.7	4.6	4.7	4.7	4.3	4.5	4.4	4.4	4.4	4.5
<b>Hawaii</b>													
Civilian labor force .....	593.8	594.2	596.6	596.0	594.6	593.9	593.1	593.6	590.2	593.4	597.5	598.8	598.2
Employed .....	555.9	556.7	556.7	557.1	560.8	560.9	558.8	558.3	555.6	558.9	560.0	562.5	562.7
Unemployed .....	37.9	37.4	39.9	38.9	33.8	33.0	34.3	35.3	34.6	36.5	37.5	36.3	35.5
Unemployment rate .....	6.4	6.3	6.7	6.5	5.7	5.6	5.8	5.9	5.9	6.2	6.3	6.1	5.9
<b>Idaho</b>													
Civilian labor force .....	623.4	625.5	628.5	631.1	636.3	631.6	632.0	634.6	636.7	639.5	641.1	638.9	640.1
Employed .....	591.4	593.4	595.1	598.1	602.8	599.1	598.4	602.5	605.9	608.6	609.6	605.6	608.2
Unemployed .....	32.0	32.1	33.5	33.0	33.5	32.5	33.6	32.1	30.8	30.9	31.4	33.3	31.9
Unemployment rate .....	5.1	5.1	5.3	5.6	5.3	5.1	5.3	5.1	4.8	4.8	4.9	5.2	5.0
<b>Illinois</b>													
Civilian labor force .....	6,101.3	6,110.3	6,114.2	6,126.8	6,130.2	6,131.8	6,149.6	6,139.5	6,117.6	6,121.1	6,145.0	6,146.2	6,129.0
Employed .....	5,780.7	5,788.9	5,795.0	5,806.7	5,821.7	5,827.6	5,841.9	5,844.1	5,849.3	5,849.4	5,856.9	5,872.2	5,851.8
Unemployed .....	320.6	321.4	319.2	320.1	308.5	304.2	307.7	295.4	268.3	271.7	288.1	274.0	277.2
Unemployment rate .....	5.3	5.3	5.2	5.2	5.0	5.0	5.0	4.8	4.4	4.4	4.7	4.5	4.5
<b>Indiana</b>													
Civilian labor force .....	3,081.5	3,058.5	3,058.5	3,048.1	3,076.8	3,062.7	3,083.6	3,098.2	3,106.0	3,108.5	3,121.4	3,120.6	3,120.2
Employed .....	2,938.1	2,941.5	2,945.8	2,938.3	2,982.8	2,975.3	2,985.2	2,997.9	3,006.8	3,006.7	3,021.6	3,010.8	3,009.4
Unemployed .....	123.4	117.0	112.7	109.8	94.3	87.4	98.4	100.3	99.1	101.8	99.8	109.8	110.9
Unemployment rate .....	4.0	3.8	3.7	3.6	3.1	2.9	3.2	3.2	3.2	3.3	3.2	3.5	3.6
<b>Iowa</b>													
Civilian labor force .....	1,604.0	1,601.3	1,605.1	1,610.0	1,603.6	1,615.0	1,627.0	1,619.2	1,615.3	1,610.8	1,599.6	1,583.0	1,592.4
Employed .....	1,542.6	1,539.4	1,543.1	1,548.3	1,545.9	1,558.0	1,574.2	1,565.6	1,566.6	1,561.9	1,557.9	1,539.6	1,549.3
Unemployed .....	61.5	61.8	61.9	61.6	57.7	57.0	52.8	53.6	48.8	48.9	41.7	43.4	43.1
Unemployment rate .....	3.8	3.9	3.9	3.8	3.6	3.5	3.2	3.3	3.0	3.0	2.6	2.7	2.7
<b>Kansas</b>													
Civilian labor force .....	1,341.1	1,346.0	1,348.3	1,347.2	1,385.2	1,383.6	1,382.0	1,384.0	1,383.1	1,380.5	1,392.5	1,392.3	1,396.7
Employed .....	1,279.3	1,283.8	1,285.8	1,285.4	1,329.6	1,329.2	1,328.8	1,328.9	1,327.6	1,328.2	1,338.4	1,340.5	1,343.2
Unemployed .....	61.7	62.2	62.5	61.8	55.6	54.5	53.2	55.1	55.5	52.4	54.2	51.8	53.5
Unemployment rate .....	4.6	4.6	4.6	4.6	4.0	3.9	3.8	4.0	4.0	3.8	3.9	3.7	3.8
<b>Kentucky</b>													
Civilian labor force .....	1,867.2	1,874.5	1,876.1	1,880.1	1,913.8	1,911.3	1,916.0	1,924.0	1,920.6	1,920.1	1,928.7	1,924.2	1,926.5
Employed .....	1,762.7	1,768.4	1,769.0	1,770.6	1,808.4	1,805.9	1,813.5	1,824.4	1,821.1	1,820.9	1,826.5	1,821.9	1,826.9
Unemployed .....	104.5	106.1	107.2	109.6	105.4	105.5	102.5	99.6	99.5	99.3	102.2	102.3	99.7
Unemployment rate .....	5.6	5.7	5.7	5.8	5.5	5.5	5.4	5.2	5.2	5.2	5.3	5.3	5.2
<b>Louisiana</b>													
Civilian labor force .....	2,014.2	2,017.2	2,016.8	2,023.7	2,011.9	2,012.0	2,030.6	2,022.0	2,019.4	2,004.9	2,005.7	2,013.1	2,004.8
Employed .....	1,876.6	1,880.6	1,886.6	1,890.8	1,896.9	1,906.8	1,912.4	1,909.6	1,892.8	1,879.0	1,878.2	1,891.8	1,890.1
Unemployed .....	137.6	136.6	130.2	132.9	115.0	105.2	118.2	112.4	126.5	125.9	127.5	121.3	114.8
Unemployment rate .....	6.8	6.8	6.5	6.6	5.7	5.2	5.8	5.6	6.3	6.3	6.4	6.0	5.7
<b>Maine</b>													
Civilian labor force .....	673.7	673.8	674.0	674.7	667.8	666.8	672.6	669.1	668.7	670.0	668.4	669.1	666.9
Employed .....	639.9	640.8	641.9	643.1	638.1	637.9	643.3	637.3	636.3	637.8	634.3	637.3	635.3
Unemployed .....	33.8	33.0	32.0	31.6	29.7	29.0	29.3	31.8	32.4	32.1	34.1	31.7	31.6
Unemployment rate .....	5.0	4.9	4.8	4.7	4.4	4.3	4.4	4.7	4.8	4.8	5.1	4.7	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	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
<b>Maryland</b>													
Civilian labor force .....	2,802.2	2,806.0	2,807.8	2,806.5	2,759.1	2,760.2	2,764.3	2,772.3	2,779.8	2,776.0	2,775.8	2,762.2	2,766.3
Employed .....	2,668.3	2,675.0	2,677.7	2,679.4	2,632.8	2,634.8	2,639.6	2,640.3	2,648.5	2,644.7	2,644.7	2,637.7	2,636.6
Unemployed .....	134.0	131.0	130.1	127.2	126.5	125.5	124.7	132.1	131.3	131.3	131.1	124.5	129.7
Unemployment rate .....	4.8	4.7	4.6	4.5	4.6	4.5	4.5	4.6	4.7	4.7	4.7	4.5	4.7
<b>Massachusetts</b>													
Civilian labor force .....	3,193.7	3,200.4	3,202.5	3,200.6	3,216.6	3,213.8	3,217.0	3,234.1	3,236.6	3,226.3	3,235.1	3,244.5	3,242.5
Employed .....	3,063.6	3,072.7	3,076.7	3,075.2	3,085.8	3,092.6	3,089.7	3,101.4	3,099.6	3,098.5	3,110.0	3,105.8	3,112.7
Unemployed .....	130.0	127.7	125.7	125.4	130.9	121.2	127.3	132.7	137.0	127.8	125.2	138.8	129.8
Unemployment rate .....	4.1	4.0	3.9	3.9	4.1	3.8	4.0	4.1	4.2	4.0	3.9	4.3	4.0
<b>Michigan</b>													
Civilian labor force .....	4,821.2	4,840.9	4,845.3	4,845.3	4,887.8	4,891.4	4,880.3	4,874.0	4,875.5	4,866.3	4,863.3	4,846.4	4,861.4
Employed .....	4,590.5	4,608.8	4,614.4	4,612.9	4,647.9	4,671.6	4,671.9	4,661.4	4,678.3	4,669.6	4,673.5	4,665.5	4,665.7
Unemployed .....	230.7	232.2	230.9	232.4	239.9	219.8	208.4	212.6	197.2	196.7	189.8	180.9	195.7
Unemployment rate .....	4.8	4.8	4.8	4.8	4.9	4.5	4.3	4.4	4.0	4.0	3.9	3.7	4.0
<b>Minnesota</b>													
Civilian labor force .....	2,613.7	2,613.1	2,613.2	2,613.8	2,648.4	2,650.3	2,652.3	2,656.2	2,659.0	2,657.5	2,668.1	2,675.7	2,675.4
Employed .....	2,507.1	2,508.3	2,509.6	2,511.2	2,555.8	2,570.7	2,571.4	2,566.3	2,571.2	2,573.0	2,586.2	2,589.2	2,589.8
Unemployed .....	108.5	104.9	103.6	102.6	92.6	79.6	80.9	89.9	87.7	84.5	81.9	86.5	85.7
Unemployment rate .....	4.1	4.0	4.0	3.9	3.5	3.0	3.1	3.4	3.3	3.2	3.1	3.2	3.2
<b>Mississippi</b>													
Civilian labor force .....	1,258.4	1,262.3	1,262.9	1,262.7	1,269.4	1,277.8	1,279.8	1,273.1	1,272.1	1,265.9	1,273.5	1,274.9	1,280.4
Employed .....	1,184.5	1,186.7	1,188.2	1,189.3	1,199.1	1,205.9	1,205.2	1,209.2	1,209.1	1,202.9	1,210.0	1,204.9	1,204.5
Unemployed .....	73.9	75.6	74.8	73.4	70.4	71.9	74.6	64.0	63.1	63.0	63.8	70.0	75.9
Unemployment rate .....	5.9	6.0	5.9	5.8	5.5	5.6	5.8	5.0	5.0	5.0	5.0	5.5	5.9
<b>Missouri</b>													
Civilian labor force .....	2,903.5	2,917.2	2,923.1	2,925.5	2,865.6	2,873.8	2,857.0	2,863.5	2,861.5	2,857.2	2,852.7	2,853.9	2,867.5
Employed .....	2,771.3	2,781.0	2,782.5	2,784.1	2,739.1	2,747.6	2,737.8	2,736.5	2,745.5	2,746.9	2,750.4	2,752.3	2,753.0
Unemployed .....	132.3	136.2	140.6	141.4	128.5	126.1	119.2	127.1	116.0	110.3	102.4	101.6	114.5
Unemployment rate .....	4.6	4.7	4.8	4.8	4.4	4.4	4.2	4.4	4.1	3.9	3.6	3.6	4.0
<b>Montana</b>													
Civilian labor force .....	447.0	450.4	451.0	449.3	454.4	453.0	456.0	456.7	459.0	458.4	460.8	465.7	462.9
Employed .....	424.3	428.4	429.3	427.7	432.5	432.4	433.5	432.4	436.5	435.5	437.3	442.1	440.0
Unemployed .....	22.7	22.0	21.7	21.6	21.9	20.7	22.5	24.3	22.5	23.0	23.5	23.6	22.9
Unemployment rate .....	5.1	4.9	4.8	4.8	4.8	4.8	4.9	5.3	4.9	5.0	5.1	5.1	4.9
<b>Nebraska</b>													
Civilian labor force .....	913.6	916.5	918.3	916.5	921.1	918.7	919.8	917.3	919.9	919.0	922.8	922.8	926.2
Employed .....	887.1	889.7	890.9	890.6	898.4	896.3	898.0	899.2	898.6	897.0	900.8	899.7	902.1
Unemployed .....	26.6	26.8	27.4	26.0	22.7	22.3	21.7	18.1	21.3	22.0	22.2	23.2	24.1
Unemployment rate .....	2.9	2.9	3.0	2.8	2.5	2.4	2.4	2.0	2.3	2.4	2.4	2.5	2.6
<b>Nevada</b>													
Civilian labor force .....	855.0	857.9	860.8	864.8	881.7	883.9	884.4	887.6	889.3	896.8	901.9	903.8	909.6
Employed .....	806.4	810.3	814.7	817.5	841.1	844.3	844.9	847.7	850.5	856.4	861.8	863.7	869.9
Unemployed .....	48.6	47.6	46.2	47.3	40.8	39.6	39.5	39.9	38.8	40.4	40.1	40.2	39.7
Unemployment rate .....	5.7	5.5	5.4	5.5	4.6	4.5	4.5	4.5	4.4	4.5	4.4	4.4	4.4
<b>New Hampshire</b>													
Civilian labor force .....	620.3	622.1	621.0	620.1	647.3	648.5	640.9	643.9	648.9	651.3	655.8	653.1	652.0
Employed .....	593.8	595.9	595.7	595.9	626.7	626.7	627.5	626.8	630.9	632.3	636.2	635.3	633.8
Unemployed .....	26.5	26.2	25.3	24.2	20.6	21.8	13.4	17.1	18.1	19.0	19.6	17.8	18.2
Unemployment rate .....	4.3	4.2	4.1	3.9	3.2	3.4	2.1	2.7	2.8	2.9	3.0	2.7	2.8

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
<b>New Jersey</b>													
Civilian labor force .....	4,143.5	4,150.6	4,153.5	4,152.1	4,145.0	4,142.7	4,132.6	4,139.1	4,135.8	4,141.9	4,158.1	4,143.2	4,146.9
Employed .....	3,887.2	3,894.6	3,899.3	3,900.6	3,898.7	3,912.7	3,905.5	3,924.1	3,914.5	3,915.2	3,934.9	3,928.1	3,924.8
Unemployed .....	256.3	256.0	254.2	251.6	246.4	230.0	227.0	215.0	221.3	226.7	223.2	215.1	222.1
Unemployment rate .....	6.2	6.2	6.1	6.1	5.9	5.6	5.5	5.2	5.4	5.5	5.4	5.2	5.4
<b>New Mexico</b>													
Civilian labor force .....	799.5	801.9	802.4	802.3	818.7	816.3	814.2	817.4	820.3	822.1	825.3	826.4	827.6
Employed .....	733.7	735.0	735.5	736.8	765.0	763.0	760.9	765.0	768.8	789.2	772.7	776.0	777.4
Unemployed .....	65.7	66.9	66.9	65.5	53.7	53.2	53.3	52.4	51.5	52.9	52.6	50.4	50.2
Unemployment rate .....	8.2	8.3	8.3	8.2	6.6	6.5	6.5	6.4	6.3	6.4	6.4	6.1	6.1
<b>New York</b>													
Civilian labor force .....	8,654.8	8,687.8	8,680.8	8,686.6	8,677.2	8,691.9	8,705.9	8,715.9	8,750.5	8,759.9	8,774.8	8,779.3	8,799.2
Employed .....	8,126.1	8,137.0	8,143.3	8,147.1	8,129.5	8,144.7	8,157.1	8,185.0	8,195.8	8,208.8	8,213.8	8,217.8	8,240.1
Unemployed .....	528.7	550.8	537.4	539.5	547.8	547.2	548.8	550.8	554.7	551.0	560.9	561.7	559.0
Unemployment rate .....	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.4
<b>North Carolina</b>													
Civilian labor force .....	3,824.7	3,848.8	3,853.3	3,860.4	3,821.4	3,794.0	3,818.0	3,817.3	3,819.8	3,796.9	3,807.3	3,806.6	3,809.9
Employed .....	3,662.3	3,685.3	3,688.9	3,697.4	3,674.6	3,654.9	3,684.5	3,695.5	3,687.0	3,657.8	3,664.9	3,660.5	3,689.3
Unemployed .....	162.4	163.4	164.4	163.0	146.8	139.1	133.5	121.9	132.8	139.1	142.4	146.1	140.6
Unemployment rate .....	4.2	4.2	4.3	4.2	3.8	3.7	3.5	3.2	3.5	3.7	3.7	3.8	3.7
<b>North Dakota</b>													
Civilian labor force .....	345.5	345.2	346.3	346.9	347.0	347.2	347.1	347.6	350.9	349.5	347.9	346.4	346.4
Employed .....	334.8	335.2	335.6	335.9	336.4	338.1	337.6	337.5	339.4	339.8	338.8	338.0	338.9
Unemployed .....	10.7	10.0	10.8	11.0	10.7	9.0	9.6	10.0	11.5	9.6	9.1	8.4	7.4
Unemployment rate .....	3.1	2.9	3.1	3.2	3.1	2.6	2.8	2.9	3.3	2.8	2.6	2.4	2.1
<b>Ohio</b>													
Civilian labor force .....	5,646.1	5,857.5	5,670.9	5,672.2	5,769.4	5,792.0	5,753.7	5,755.2	5,744.4	5,734.2	5,730.8	5,747.8	5,755.1
Employed .....	5,370.3	5,379.3	5,383.6	5,389.0	5,478.3	5,474.5	5,482.1	5,480.6	5,482.0	5,494.4	5,490.2	5,503.1	5,499.7
Unemployed .....	275.8	278.1	287.3	283.2	291.1	317.5	271.5	274.8	262.4	239.8	240.5	244.7	255.4
Unemployment rate .....	4.9	4.9	5.1	5.0	5.0	5.5	4.7	4.8	4.6	4.2	4.2	4.3	4.4
<b>Oklahoma</b>													
Civilian labor force .....	1,583.2	1,587.5	1,588.7	1,590.1	1,602.1	1,606.0	1,601.1	1,598.1	1,601.2	1,598.3	1,603.7	1,601.9	1,603.5
Employed .....	1,520.0	1,524.9	1,526.4	1,528.8	1,540.8	1,551.8	1,544.3	1,543.3	1,545.2	1,539.4	1,542.6	1,539.9	1,542.2
Unemployed .....	63.2	62.6	62.3	61.3	61.4	54.2	56.8	54.8	56.0	59.0	61.1	62.0	61.3
Unemployment rate .....	4.0	3.9	3.9	3.9	3.8	3.4	3.5	3.4	3.5	3.7	3.8	3.9	3.8
<b>Oregon</b>													
Civilian labor force .....	1,724.9	1,729.8	1,738.7	1,743.1	1,731.0	1,704.1	1,713.6	1,730.3	1,708.0	1,696.8	1,706.0	1,738.0	1,759.5
Employed .....	1,621.2	1,624.4	1,630.3	1,633.3	1,636.2	1,608.7	1,614.2	1,633.0	1,622.6	1,610.3	1,615.8	1,642.4	1,663.9
Unemployed .....	103.7	105.4	108.4	109.8	94.8	95.4	99.5	97.3	85.4	86.5	90.1	95.7	95.6
Unemployment rate .....	6.0	6.1	6.2	6.3	5.5	5.6	5.8	5.6	5.0	5.1	5.3	5.5	5.4
<b>Pennsylvania</b>													
Civilian labor force .....	5,915.5	5,922.3	5,926.3	5,934.7	5,959.2	5,980.9	5,980.6	5,978.0	6,004.3	5,993.0	6,008.4	6,002.3	5,997.9
Employed .....	5,615.8	5,627.8	5,637.4	5,647.4	5,681.5	5,686.8	5,678.3	5,664.6	5,694.3	5,670.4	5,690.2	5,688.0	5,681.4
Unemployed .....	299.7	294.5	289.0	287.2	277.6	294.2	302.2	313.4	309.9	322.5	318.2	316.3	316.5
Unemployment rate .....	5.1	5.0	4.9	4.8	4.7	4.9	5.1	5.2	5.2	5.4	5.3	5.3	5.3
<b>Rhode Island</b>													
Civilian labor force .....	498.9	499.5	500.9	500.7	497.9	495.3	498.2	500.7	501.3	503.1	504.3	506.6	508.9
Employed .....	474.7	475.4	475.9	475.9	473.4	472.2	473.9	474.8	472.8	473.5	476.5	481.5	484.0
Unemployed .....	24.2	24.1	25.0	24.9	24.5	23.1	24.3	25.8	28.5	29.6	27.9	25.0	24.9
Unemployment rate .....	4.9	4.8	5.0	5.0	4.9	4.7	4.9	5.2	5.7	5.9	5.5	4.9	4.9

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1996				1997								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>
<b>South Carolina</b>													
Civilian labor force .....	1,845.1	1,845.2	1,848.7	1,846.0	1,886.4	1,885.8	1,893.7	1,886.2	1,892.0	1,904.8	1,904.7	1,911.6	1,901.4
Employed .....	1,730.4	1,730.2	1,732.3	1,733.7	1,782.0	1,782.1	1,794.1	1,798.8	1,801.0	1,807.8	1,817.2	1,821.0	1,814.2
Unemployed .....	114.7	115.0	114.4	112.3	104.5	103.7	99.6	87.4	91.1	96.9	87.5	90.6	87.3
Unemployment rate .....	6.2	6.2	6.2	6.1	5.5	5.5	5.3	4.6	4.8	5.1	4.6	4.7	4.6
<b>South Dakota</b>													
Civilian labor force .....	390.6	391.1	392.0	392.3	391.4	390.1	390.7	389.7	391.3	391.5	391.4	391.6	390.6
Employed .....	378.1	378.7	379.2	379.3	379.2	379.3	379.5	379.1	380.9	380.5	380.6	381.1	380.5
Unemployed .....	12.5	12.4	12.8	13.0	12.2	10.7	11.2	10.6	10.4	10.9	10.8	10.5	10.1
Unemployment rate .....	3.2	3.2	3.3	3.3	3.1	2.7	2.9	2.7	2.7	2.8	2.8	2.7	2.6
<b>Tennessee</b>													
Civilian labor force .....	2,757.1	2,766.2	2,771.8	2,769.8	2,758.9	2,758.7	2,755.8	2,761.7	2,753.0	2,758.9	2,771.1	2,758.8	2,764.0
Employed .....	2,619.0	2,625.0	2,627.9	2,629.0	2,619.5	2,621.7	2,613.6	2,622.1	2,617.6	2,613.5	2,619.1	2,617.3	2,614.6
Unemployed .....	138.1	141.1	143.8	140.8	139.4	137.0	142.2	139.6	135.4	145.4	152.0	141.5	149.4
Unemployment rate .....	5.0	5.1	5.2	5.1	5.1	5.0	5.2	5.1	4.9	5.3	5.5	5.1	5.4
<b>Texas</b>													
Civilian labor force .....	9,768.2	9,785.9	9,804.0	9,806.5	9,883.4	9,918.4	9,935.6	9,907.1	9,931.8	9,932.8	9,941.2	9,941.2	9,967.5
Employed .....	9,235.7	9,260.1	9,274.6	9,286.9	9,348.2	9,357.7	9,354.0	9,361.7	9,394.0	9,395.4	9,394.4	9,405.0	9,442.9
Unemployed .....	532.5	525.7	529.4	519.6	535.3	560.6	581.6	545.4	537.8	537.4	546.8	536.2	524.6
Unemployment rate .....	5.5	5.4	5.4	5.3	5.4	5.7	5.9	5.5	5.4	5.4	5.5	5.4	5.3
<b>Utah</b>													
Civilian labor force .....	1,005.1	1,007.9	1,010.7	1,013.0	1,034.5	1,037.2	1,041.1	1,046.7	1,048.8	1,047.6	1,050.3	1,054.3	1,056.0
Employed .....	970.0	973.0	976.0	979.0	1,001.7	1,004.1	1,011.6	1,014.9	1,017.0	1,014.6	1,018.8	1,021.5	1,026.4
Unemployed .....	35.1	35.0	34.7	33.9	32.8	33.1	29.6	31.8	31.8	33.0	31.6	32.8	29.7
Unemployment rate .....	3.5	3.5	3.4	3.4	3.2	3.2	2.8	3.0	3.0	3.1	3.0	3.1	2.8
<b>Vermont</b>													
Civilian labor force .....	324.6	325.4	325.9	325.8	328.0	329.0	328.5	328.0	328.4	328.9	329.3	331.1	330.1
Employed .....	309.8	310.4	310.8	310.9	315.0	316.1	315.6	315.3	315.8	316.5	316.8	318.4	317.8
Unemployed .....	14.9	15.0	15.2	14.9	12.9	12.9	12.9	12.7	12.6	12.4	12.5	12.7	12.3
Unemployment rate .....	4.6	4.6	4.7	4.6	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.7
<b>Virginia</b>													
Civilian labor force .....	3,368.6	3,369.5	3,368.4	3,370.6	3,518.2	3,514.8	3,521.0	3,525.3	3,525.2	3,521.2	3,534.0	3,538.0	3,538.1
Employed .....	3,220.7	3,223.1	3,223.4	3,227.4	3,375.1	3,366.2	3,373.4	3,371.5	3,374.4	3,370.5	3,385.5	3,389.4	3,396.7
Unemployed .....	147.9	146.4	145.0	143.2	143.1	148.6	147.8	153.8	150.9	150.7	148.5	148.6	141.4
Unemployment rate .....	4.4	4.3	4.3	4.2	4.1	4.2	4.2	4.4	4.3	4.3	4.2	4.2	4.0
<b>Washington</b>													
Civilian labor force .....	2,891.4	2,903.8	2,906.7	2,908.3	2,918.8	2,917.7	2,931.2	2,946.5	2,943.5	2,950.9	2,978.9	2,989.9	2,992.8
Employed .....	2,703.0	2,718.6	2,722.0	2,725.2	2,753.1	2,771.4	2,788.4	2,795.9	2,802.7	2,807.2	2,836.8	2,839.0	2,836.1
Unemployed .....	188.3	187.2	184.7	183.1	165.7	146.2	142.8	150.8	140.9	143.8	142.1	150.9	156.6
Unemployment rate .....	6.5	6.4	6.4	6.3	5.7	5.0	4.9	5.1	4.8	4.9	4.8	5.0	5.2
<b>West Virginia</b>													
Civilian labor force .....	811.2	813.9	814.7	814.1	803.3	807.8	804.8	809.5	796.1	802.3	806.6	803.4	799.4
Employed .....	750.8	753.0	753.9	753.5	745.9	747.0	748.5	749.1	748.3	750.9	752.9	749.3	748.8
Unemployed .....	60.4	60.9	60.8	60.6	57.4	60.8	56.3	60.4	47.9	51.3	53.7	54.1	50.6
Unemployment rate .....	7.5	7.5	7.5	7.4	7.1	7.5	7.0	7.5	6.0	6.4	6.7	6.7	6.3
<b>Wisconsin</b>													
Civilian labor force .....	2,926.8	2,934.3	2,941.6	2,944.3	2,928.9	2,926.7	2,918.2	2,919.5	2,914.7	2,921.4	2,931.6	2,935.2	2,939.6
Employed .....	2,826.6	2,835.8	2,841.8	2,842.6	2,822.5	2,824.7	2,816.9	2,819.3	2,815.8	2,816.7	2,820.9	2,829.3	2,830.6
Unemployed .....	100.1	98.5	99.8	101.7	106.4	102.1	101.4	100.2	98.9	104.7	110.7	105.9	109.0
Unemployment rate .....	3.4	3.4	3.4	3.5	3.6	3.5	3.5	3.4	3.4	3.6	3.8	3.6	3.7
<b>Wyoming</b>													
Civilian labor force .....	257.9	257.8	257.9	258.1	256.7	256.1	256.2	257.6	257.0	257.5	258.1	256.6	256.3
Employed .....	244.9	244.9	245.0	245.1	245.0	244.8	244.8	244.9	244.8	244.8	245.5	244.9	245.4
Unemployed .....	13.0	12.9	12.9	13.1	11.8	11.3	11.5	12.7	12.3	12.7	12.6	11.7	10.9
Unemployment rate .....	5.0	5.0	5.0	5.1	4.6	4.4	4.5	4.9	4.8	4.9	4.9	4.6	4.2

<sup>P</sup> = preliminary.

revised when new benchmark and population information becomes available.

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

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
<b>Alabama</b> .....	2,081.1	2,107.3	2,106.4	99.0	107.0	102.1	4.8	5.1	4.8
Birmingham .....	448.6	457.8	457.2	13.8	16.3	15.4	3.1	3.6	3.4
Huntsville .....	163.0	165.2	185.9	4.9	4.7	4.5	3.0	2.8	2.7
Mobile .....	258.3	266.3	264.5	12.5	13.2	12.3	4.9	5.0	4.7
Montgomery .....	156.3	157.9	157.6	6.1	6.7	6.5	3.9	4.3	4.1
Tuscaloosa .....	77.8	78.8	80.2	2.5	2.8	2.6	3.2	3.5	3.2
<b>Alaska</b> .....	318.6	331.5	324.8	19.9	18.7	19.4	6.2	5.6	6.0
Anchorage .....	137.7	140.7	140.4	6.7	6.5	7.0	4.8	4.6	5.0
<b>Arizona</b> .....	2,269.7	2,299.3	2,304.0	145.1	113.2	112.5	6.4	4.9	4.9
Phoenix-Mesa .....	1,468.5	1,507.4	1,514.7	63.7	45.2	47.0	4.3	3.0	3.1
Tucson .....	380.5	375.5	378.3	16.0	12.5	13.3	4.2	3.3	3.5
<b>Arkansas</b> .....	1,241.6	1,280.2	1,247.0	64.3	67.9	59.6	5.2	5.4	4.8
Fayetteville-Springdale-Rogers .....	140.2	143.4	142.5	3.8	4.8	4.0	2.7	3.3	2.8
Fort Smith .....	96.4	97.3	95.4	4.6	5.0	4.5	4.7	5.2	4.8
Little Rock-North Little Rock .....	299.7	305.1	301.1	12.0	12.9	11.5	4.0	4.2	3.8
Pine Bluff .....	37.7	37.8	37.5	3.0	3.2	2.8	8.0	8.4	7.4
<b>California</b> .....	15,715.1	16,081.3	15,958.8	1,069.6	986.5	960.2	6.8	6.1	6.0
Bakersfield .....	283.2	294.6	293.5	31.7	28.8	30.3	11.2	9.8	10.3
Fresno .....	447.4	441.3	440.1	45.6	44.4	46.1	10.2	10.1	10.5
Los Angeles-Long Beach .....	4,480.9	4,573.9	4,540.5	360.1	319.2	295.5	8.0	7.0	6.5
Modesto .....	201.0	207.4	203.7	21.7	20.0	20.5	10.8	9.6	10.1
Oakland .....	1,149.7	1,188.3	1,162.4	57.1	53.5	52.1	5.0	4.6	4.5
Orange County .....	1,343.4	1,380.1	1,374.8	54.8	47.8	47.6	4.1	3.4	3.5
Riverside-San Bernardino .....	1,312.9	1,355.4	1,349.9	103.2	104.2	102.6	7.9	7.7	7.6
Sacramento .....	725.4	746.9	737.4	40.6	39.2	39.3	5.6	5.3	5.3
Salinas .....	177.5	185.6	182.9	12.1	12.0	11.6	6.8	6.5	6.3
San Diego .....	1,233.5	1,260.7	1,249.7	65.4	57.5	55.8	5.3	4.6	4.5
San Francisco .....	911.7	937.3	926.1	35.2	34.0	32.7	3.9	3.6	3.5
San Jose .....	898.9	943.8	929.9	33.0	28.8	28.7	3.7	3.0	3.1
Santa Barbara-Santa Maria-Lompoc .....	191.6	193.9	189.6	10.4	8.4	8.5	5.4	4.3	4.5
Santa Rosa .....	233.8	235.8	237.1	9.0	9.3	8.5	3.8	3.9	3.8
Stockton-Lodi .....	245.0	251.4	250.3	21.1	21.4	21.3	8.6	8.5	8.5
Vallejo-Fairfield-Napa .....	235.4	237.7	237.4	15.7	14.2	13.4	6.7	6.0	5.6
Ventura .....	380.9	388.1	383.4	31.1	29.1	29.1	8.2	7.5	7.6
<b>Colorado</b> .....	2,123.5	2,200.5	2,200.0	81.0	69.4	66.9	3.8	3.2	3.0
Boulder-Longmont .....	165.5	168.0	170.5	6.0	4.8	4.7	3.6	2.9	2.8
Colorado Springs .....	240.5	250.8	251.7	10.4	9.1	8.8	4.3	3.6	3.5
Denver .....	1,062.5	1,104.2	1,105.2	37.3	30.6	30.2	3.5	2.8	2.7
<b>Connecticut</b> .....	1,706.8	1,776.4	1,728.2	87.7	84.8	69.7	5.1	4.8	4.0
Bridgeport .....	218.5	225.9	218.1	13.5	12.7	10.6	6.2	5.6	4.9
Danbury .....	106.3	111.6	107.5	3.6	3.9	2.9	3.4	3.5	2.7
Hartford .....	584.8	599.2	590.5	32.1	30.1	24.7	5.5	5.0	4.2
New Haven-Meriden .....	271.1	279.8	272.7	14.2	13.9	11.3	5.2	5.0	4.1
New London-Norwich .....	151.4	165.0	157.8	7.9	8.3	7.2	5.2	5.1	4.6
Stamford-Newark .....	189.9	200.4	193.0	6.2	6.0	5.1	3.3	3.0	2.7
Waterbury .....	116.4	123.6	120.0	6.5	6.5	5.2	5.6	5.2	4.3
<b>Delaware</b> .....	379.2	394.5	386.0	20.5	17.1	14.6	5.4	4.3	3.8
Dover .....	67.3	70.6	69.4	3.2	3.4	2.9	4.8	4.6	4.2
Wilmington-Newark .....	284.2	289.7	285.7	19.3	13.9	12.1	8.8	4.8	4.2
<b>District of Columbia</b> .....	269.1	262.6	260.5	21.7	20.7	20.0	8.1	7.9	7.7
Washington .....	2,537.8	2,589.4	2,562.7	99.1	90.1	90.3	3.9	3.5	3.5
<b>Florida</b> .....	6,992.2	7,229.0	7,211.1	378.4	357.4	366.2	5.4	4.9	5.1
Daytona Beach .....	189.9	193.0	193.4	7.9	7.1	7.4	4.1	3.7	3.8
Fort Lauderdale .....	740.2	766.2	764.4	38.6	36.9	38.5	5.4	4.8	5.0
Fort Myers-Cape Coral .....	169.2	171.3	171.2	6.5	5.9	6.1	3.8	3.5	3.6
Gainesville .....	102.5	104.6	105.4	2.7	2.9	2.7	2.7	2.7	2.6
Jacksonville .....	518.4	540.6	538.1	19.4	18.8	19.3	3.7	3.5	3.6
Lakeland-Winter Haven .....	196.2	201.9	201.3	17.0	16.9	15.9	8.7	6.4	7.9
Melbourne-Titusville-Palm Bay .....	198.2	205.3	201.4	10.3	8.9	9.4	5.2	4.4	4.7
Miami .....	1,036.1	1,061.9	1,054.0	76.1	73.6	76.2	7.5	6.9	7.2
Orlando .....	789.0	831.8	829.1	30.2	29.6	28.9	3.8	3.6	3.5
Pensacola .....	167.9	173.0	173.5	6.0	6.3	6.3	3.6	3.8	3.6
Sarasota-Bradenton .....	243.8	258.0	258.3	9.0	7.5	6.5	3.7	2.9	3.3
Tallahassee .....	143.7	146.2	146.2	4.5	4.4	4.6	3.1	3.0	3.1
Tampa-St. Petersburg-Clearwater .....	1,106.2	1,147.9	1,144.8	44.0	39.8	41.3	4.0	3.5	3.6
West Palm Beach-Boca Raton .....	470.7	485.6	487.8	36.9	35.5	37.0	7.8	7.3	7.6

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
<b>Georgia</b> .....	3,766.7	3,892.4	3,894.6	180.4	172.8	180.0	4.8	4.4	4.6
Albany .....	56.6	58.0	58.7	3.5	3.8	4.1	6.2	6.5	7.0
Athens .....	68.6	70.9	68.9	2.3	2.3	2.2	3.3	3.2	3.1
Atlanta .....	1,984.9	2,063.6	2,064.7	79.6	73.9	77.9	4.0	3.6	3.8
Augusta-Aiken .....	203.5	208.3	207.9	13.7	13.4	13.7	6.7	6.4	6.6
Columbus .....	118.6	119.8	120.0	5.9	5.9	6.2	5.1	4.9	5.2
Macon .....	148.6	151.4	152.0	7.4	7.2	7.5	5.0	4.8	5.0
Savannah .....	132.1	133.3	133.6	6.4	6.0	6.3	4.8	4.5	4.7
<b>Hawaii</b> .....	585.5	600.7	590.0	37.8	38.8	35.7	6.5	6.5	6.1
Honolulu .....	422.4	430.6	425.1	23.2	23.0	21.9	5.5	5.4	5.1
<b>Idaho</b> .....	623.0	644.8	639.9	26.0	30.0	25.8	4.2	4.7	4.0
Boise City .....	205.5	214.7	212.3	6.9	7.4	6.7	3.4	3.4	3.2
<b>Illinois</b> .....	6,064.4	6,187.0	6,111.5	295.4	273.7	259.9	4.9	4.4	4.2
Bloomington-Normal .....	79.7	80.0	80.8	2.0	2.0	1.8	2.5	2.5	2.2
Champaign-Urbana .....	91.9	91.5	90.9	2.6	2.6	2.3	2.8	2.8	2.5
Chicago .....	4,044.3	4,138.2	4,085.7	191.4	174.9	165.7	4.7	4.2	4.1
Davenport-Moline-Rock Island .....	183.7	185.4	183.5	7.2	5.9	5.3	3.9	3.2	2.9
Decatur .....	60.4	60.0	58.7	4.9	4.2	3.6	8.0	7.0	8.1
Kankakee .....	51.7	52.8	51.8	2.5	2.6	2.4	4.9	4.9	4.7
Peoria-Pekin .....	179.6	179.6	178.1	9.5	7.5	6.7	5.3	4.2	3.8
Rockford .....	192.4	196.8	193.1	7.3	8.1	7.0	3.8	4.1	3.6
Springfield .....	105.8	112.7	106.4	4.4	4.6	4.0	4.1	4.1	3.8
<b>Indiana</b> .....	3,066.2	3,127.9	3,123.7	110.5	102.8	98.4	3.6	3.3	3.1
Bloomington .....	62.4	59.7	62.9	1.3	1.6	1.2	2.1	2.7	1.9
Elkhart-Goshen .....	93.7	95.4	95.1	3.1	2.9	3.0	3.4	3.0	3.2
Evansville-Henderson .....	153.7	158.1	156.4	6.3	6.3	5.9	4.1	4.0	3.8
Fort Wayne .....	262.1	287.0	266.1	7.9	7.5	7.3	3.0	2.8	2.7
Gary .....	299.4	303.1	302.4	15.4	11.9	10.8	5.2	3.9	3.6
Indianapolis .....	612.1	635.6	635.0	23.1	22.0	21.8	2.8	2.6	2.6
Kokomo .....	51.9	52.5	52.4	1.7	1.7	1.7	3.3	3.3	3.2
Lafayette .....	88.6	85.3	91.5	2.0	2.1	2.2	2.3	2.5	2.4
Muncie .....	61.7	60.9	63.4	2.5	2.8	2.0	4.0	4.5	3.1
South Bend .....	136.3	140.7	138.8	4.8	4.5	4.3	3.5	3.2	3.1
Terre Haute .....	73.9	72.2	74.5	4.0	3.9	3.9	5.4	5.3	5.2
<b>Iowa</b> .....	1,601.3	1,591.7	1,590.7	55.0	39.8	38.7	3.4	2.5	2.4
Cedar Rapids .....	108.7	109.5	108.9	3.0	2.1	2.0	2.8	1.9	1.9
Des Moines .....	256.0	260.2	257.1	7.9	5.2	5.1	3.1	2.0	2.0
Dubuque .....	50.6	49.3	49.2	2.5	1.4	1.5	5.0	2.9	3.0
Iowa City .....	63.9	62.4	63.3	2.0	1.5	1.5	3.1	2.4	2.4
Sioux City .....	66.2	65.9	65.4	2.2	1.8	1.8	3.3	2.7	2.7
Waterloo-Cedar Falls .....	68.4	66.7	66.1	3.0	2.1	2.0	4.4	3.2	3.0
<b>Kansas</b> .....	1,329.0	1,388.7	1,379.8	57.9	50.9	50.0	4.4	3.7	3.6
Lawrence .....	50.3	48.8	50.4	2.4	2.1	2.1	4.9	4.4	4.1
Topeka .....	88.5	90.9	89.1	5.1	4.5	4.6	5.8	5.0	5.1
Wichita .....	264.0	279.7	276.7	11.2	9.4	9.7	4.2	3.4	3.5
<b>Kentucky</b> .....	1,866.7	1,936.9	1,923.8	100.2	93.7	95.7	5.4	4.8	5.0
Lexington .....	243.2	255.0	255.6	6.9	6.9	7.4	2.9	2.7	2.9
Louisville .....	529.0	552.4	550.6	22.4	20.9	20.6	4.2	3.8	3.7
Owensboro .....	47.7	50.7	50.2	2.8	2.6	2.8	5.8	5.2	5.5
<b>Louisiana</b> .....	2,017.1	2,027.5	2,007.1	134.0	125.4	113.3	6.6	6.2	5.6
Alexandria .....	59.0	58.3	57.5	4.0	3.7	3.3	6.7	6.4	5.7
Baton Rouge .....	291.3	298.4	299.5	17.2	16.3	14.7	5.9	5.5	4.9
Houma .....	94.8	88.8	88.5	3.3	3.0	2.8	3.9	3.4	3.2
Lafayette .....	169.4	174.9	171.8	9.7	9.1	6.5	5.7	5.2	5.0
Lake Charles .....	89.4	88.9	88.3	5.5	5.3	5.1	6.2	6.0	5.8
Monroe .....	69.2	69.7	69.6	4.5	4.8	4.1	6.6	6.6	5.9
New Orleans .....	617.6	617.8	612.6	41.5	34.8	32.8	6.7	5.6	5.4
Shreveport-Bossier City .....	184.0	187.5	182.8	13.1	14.7	11.4	7.1	7.8	6.3
<b>Maine</b> .....	874.6	685.8	668.5	27.4	26.1	25.5	4.1	3.8	3.8
Lewiston-Auburn .....	52.3	51.9	52.2	2.8	2.2	2.2	5.3	4.3	4.2
Portland .....	133.2	134.8	130.9	3.2	3.1	3.0	2.4	2.3	2.3

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
<b>Maryland</b> .....	2,817.4	2,798.4	2,783.7	134.9	122.5	131.1	4.8	4.4	4.7
Baltimore .....	1,329.2	1,314.0	1,313.3	71.7	66.1	73.9	5.4	5.0	5.6
<b>Massachusetts</b> .....	3,179.7	3,291.1	3,228.2	128.4	132.5	128.0	4.0	4.0	4.0
Barnstable-Yarmouth .....	75.1	82.4	75.2	2.6	2.8	2.8	3.4	3.4	3.7
Boston .....	1,758.5	1,828.1	1,792.9	63.3	64.6	63.3	3.6	3.5	3.5
Brockton .....	127.8	128.8	127.3	6.4	6.4	6.1	5.0	5.0	4.8
Fitchburg-Leominster .....	68.0	68.8	68.8	3.5	3.8	3.4	5.1	5.5	5.0
Lawrence .....	191.0	199.2	196.1	11.6	10.2	10.2	6.1	5.1	5.2
Lowell .....	153.8	158.8	157.7	6.5	7.1	6.6	4.2	4.5	4.2
New Bedford .....	79.7	82.2	80.8	5.9	5.8	5.5	7.4	7.0	6.6
Pittsfield .....	39.9	42.0	40.3	1.8	1.9	1.9	4.6	4.5	4.7
Springfield .....	277.7	279.8	279.1	11.4	12.2	11.4	4.1	4.4	4.1
Worcester .....	243.1	252.4	247.6	9.1	9.4	9.1	3.8	3.7	3.7
<b>Michigan</b> .....	4,820.8	4,907.0	4,859.0	209.8	166.9	174.7	4.4	3.4	3.6
Ann Arbor .....	277.6	278.8	282.3	7.4	5.9	8.2	2.7	2.1	2.2
Benton Harbor .....	82.3	83.5	81.7	5.0	3.4	3.5	6.1	4.1	4.3
Detroit .....	2,160.0	2,204.9	2,177.9	89.4	73.1	77.3	4.1	3.3	3.5
Flint .....	202.2	200.0	199.9	12.6	9.6	9.8	6.2	4.8	4.9
Grand Rapids-Muskegon-Holland .....	559.8	574.4	568.1	21.2	16.6	17.0	3.8	2.9	3.0
Jackson .....	74.3	75.8	74.7	3.6	2.9	3.2	4.9	3.8	4.3
Kalamazoo-Battle-Creek .....	222.8	225.3	223.3	9.4	7.1	7.6	4.2	3.1	3.4
Lansing-East Lansing .....	234.4	232.9	234.0	7.8	6.1	6.3	3.3	2.6	2.7
Saginaw-Bay City-Midland .....	191.9	195.6	194.0	8.3	6.5	7.0	4.3	3.3	3.6
<b>Minnesota</b> .....	2,618.3	2,697.2	2,678.0	107.2	77.5	87.4	4.1	2.9	3.3
Duluth-Superior .....	122.7	126.3	124.6	6.8	5.6	5.8	5.5	4.4	4.6
Minneapolis-St.Paul .....	1,617.3	1,680.1	1,658.7	56.8	39.9	46.7	3.5	2.4	2.8
Rochester .....	65.2	68.4	67.2	2.0	1.3	1.5	3.1	1.9	2.2
St. Cloud .....	92.9	92.8	94.0	4.4	3.1	3.4	4.7	3.3	3.8
<b>Mississippi</b> .....	1,250.9	1,277.5	1,271.6	71.1	76.5	73.0	5.7	6.0	5.7
Jackson .....	217.6	227.5	224.7	7.5	8.2	8.3	3.5	3.6	3.7
<b>Missouri</b> .....	2,882.7	2,864.5	2,850.4	120.2	107.6	102.7	4.2	3.8	3.6
Kansas City .....	936.3	983.1	952.7	37.7	32.9	34.1	4.0	3.4	3.6
St. Louis LMA .....	1,359.5	1,356.9	1,342.4	57.3	52.5	50.1	4.2	3.9	3.7
Springfield .....	169.4	164.9	164.1	5.2	5.0	4.2	3.1	3.0	2.8
<b>Montana</b> .....	445.6	472.8	461.3	18.7	20.0	19.0	4.2	4.2	4.1
<b>Nebraska</b> .....	907.4	929.0	919.6	23.4	21.0	21.2	2.6	2.3	2.3
Lincoln .....	138.5	143.4	140.0	3.3	2.5	2.5	2.4	1.7	1.8
Omaha .....	370.1	390.4	385.7	10.2	9.9	10.0	2.7	2.5	2.6
<b>Nevada</b> .....	858.6	910.1	912.5	48.5	41.0	40.4	5.7	4.5	4.4
Las Vegas .....	645.7	688.8	690.7	38.6	31.1	31.9	6.0	4.5	4.8
Reno .....	168.6	176.2	176.6	7.7	6.7	6.1	4.6	3.8	3.5
<b>New Hampshire</b> .....	614.5	663.0	644.6	24.8	17.6	16.9	4.0	2.8	2.8
Manchester .....	94.4	100.7	98.8	3.5	2.5	2.4	3.7	2.4	2.5
Nashua .....	94.7	102.3	100.3	4.2	2.8	2.5	4.5	2.7	2.5
Portsmouth-Rochester .....	118.7	125.5	120.4	4.0	2.9	2.7	3.4	2.3	2.2
<b>New Jersey</b> .....	4,118.7	4,173.5	4,124.5	244.3	211.1	211.5	5.9	5.1	5.1
Atlantic-Cape May .....	179.9	189.5	180.1	13.5	11.6	12.2	7.5	6.1	6.8
Bergen-Passaic .....	667.8	669.1	663.5	40.6	35.0	34.6	6.1	5.2	5.2
Jersey City .....	287.5	288.9	289.1	25.9	21.6	22.4	9.0	7.5	7.7
Middlesex-Somerset-Hunterdon .....	613.1	623.6	620.0	27.3	24.5	23.3	4.5	3.9	3.8
Monmouth-Ocean .....	516.1	535.3	513.1	26.8	24.2	24.4	5.2	4.5	4.8
Newark .....	1,002.9	1,011.8	1,006.8	60.8	53.0	53.5	6.1	5.2	5.3
Trenton .....	166.7	166.4	165.8	9.3	8.0	7.9	5.6	4.8	4.8
Vineland-Millville-Bridgeton .....	65.2	64.4	64.9	5.7	4.6	4.8	6.8	7.2	7.4
<b>New Mexico</b> .....	794.8	827.6	822.3	63.8	51.8	48.6	8.0	6.3	5.9
Albuquerque .....	342.9	360.2	358.5	19.3	17.3	16.1	5.6	4.8	4.5
Las Cruces .....	67.0	67.8	68.5	6.1	5.1	5.0	9.1	7.5	7.3
Santa Fe .....	71.1	75.3	73.6	3.7	2.9	2.7	5.2	3.9	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 selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
<b>New York</b> .....	8,590.1	8,895.7	6,736.4	503.4	551.2	533.0	5.9	6.2	6.1
Albany-Schenectady-Troy .....	441.9	454.9	447.3	19.0	17.3	18.3	4.3	3.8	4.1
Binghamton .....	121.4	126.5	126.3	4.8	4.5	4.8	3.9	3.6	3.8
Buffalo-Niagara Falls .....	568.9	590.0	576.7	25.9	30.4	29.5	4.6	5.2	5.1
Dutchess County .....	116.9	120.5	119.1	4.9	4.4	4.8	4.2	3.6	4.1
Elmira .....	42.8	45.2	44.3	1.7	1.9	1.9	4.1	4.1	4.2
Glens Falls .....	60.8	66.5	61.5	3.0	2.9	2.8	5.0	4.4	4.6
Nassau-Suffolk .....	1,357.1	1,427.4	1,393.8	54.3	58.9	55.9	4.0	4.1	4.0
New York .....	3,904.8	4,009.6	3,955.4	301.9	342.7	321.7	7.7	8.5	8.1
New York City .....	3,277.5	3,354.5	3,321.3	276.1	317.3	296.8	8.4	9.5	8.9
Newburgh .....	168.9	175.8	171.0	6.7	7.5	7.2	4.0	4.2	4.2
Rochester .....	565.5	588.0	576.2	21.1	21.6	22.8	3.7	3.7	4.0
Syracuse .....	363.3	369.2	367.7	15.7	14.7	16.3	4.3	4.0	4.4
Utica-Rome .....	141.0	146.3	142.7	6.3	6.6	6.6	4.5	4.5	4.6
<b>North Carolina</b> .....	3,824.5	3,849.9	3,812.4	147.9	145.5	128.4	3.9	3.8	3.4
Asheville .....	108.8	109.4	109.1	3.0	3.0	2.6	2.7	2.8	2.3
Charlotte-Gastonia-Rock Hill .....	741.1	749.5	740.3	26.0	25.0	21.9	3.5	3.3	3.0
Greensboro-Winston-Salem-High Point .....	635.4	630.2	622.2	16.5	19.5	17.3	2.9	3.1	2.8
Raleigh-Durham-Chapel Hill .....	584.7	590.8	590.8	13.3	12.7	11.3	2.3	2.2	1.9
<b>North Dakota</b> .....	348.4	358.1	349.9	8.9	8.1	6.2	2.5	2.3	1.8
Bismarck .....	52.7	54.7	52.9	1.3	1.1	.9	2.4	2.1	1.7
Fargo-Moorhead .....	97.4	102.3	100.9	2.0	1.6	1.4	2.0	1.5	1.4
Grand Forks .....	55.4	57.2	57.4	1.5	2.0	1.7	2.6	3.6	3.0
<b>Ohio</b> .....	5,648.2	5,818.5	5,747.7	260.9	221.8	237.0	4.6	3.8	4.1
Akron .....	361.5	368.1	367.7	15.4	12.6	13.8	4.2	3.4	3.8
Canton-Massillon .....	200.8	207.8	205.1	9.7	8.0	8.5	4.8	3.8	4.2
Cincinnati .....	823.2	851.3	839.0	34.0	28.2	29.3	4.1	3.3	3.5
Cleveland-Lorain-Elyria .....	1,108.7	1,144.1	1,131.2	57.4	44.3	49.4	5.2	3.9	4.4
Columbus .....	793.5	828.8	814.0	24.2	20.5	22.4	3.1	2.5	2.8
Dayton-Springfield .....	475.0	484.1	478.0	20.8	17.3	18.1	4.4	3.6	3.8
Hamilton-Middletown .....	164.4	169.1	168.3	6.7	5.1	5.6	4.1	3.0	3.4
Lima .....	76.5	77.9	76.5	4.8	3.5	3.6	6.3	4.5	4.7
Mansfield .....	84.1	87.6	86.3	4.7	4.5	5.2	5.6	5.2	8.0
Steubenville-Weirton .....	57.1	56.5	57.2	3.3	5.3	4.9	5.8	9.4	8.6
Toledo .....	312.3	317.1	316.8	13.8	13.2	13.7	4.4	4.2	4.3
Youngstown-Warren .....	281.5	289.2	285.4	15.9	14.7	15.4	5.6	5.1	5.4
<b>Oklahoma</b> .....	1,580.3	1,603.6	1,599.5	60.1	54.4	58.8	3.8	3.4	3.7
Enid .....	26.7	27.4	27.2	.8	.8	.9	3.2	2.8	3.2
Lawton .....	40.5	41.7	41.3	1.8	1.7	1.8	4.5	4.1	4.3
Oklahoma City .....	517.5	523.6	523.1	16.6	15.1	16.2	3.2	2.9	3.1
Tulsa .....	369.6	404.6	398.5	12.4	11.7	12.5	3.2	2.9	3.1
<b>Oregon</b> .....	1,732.3	1,761.2	1,765.2	92.7	86.7	84.6	5.4	4.9	4.8
Eugene-Springfield .....	157.3	160.8	161.2	8.4	7.8	7.6	5.3	4.8	4.7
Medford-Ashland .....	88.0	86.8	88.0	6.3	5.8	5.1	7.2	6.7	5.8
Portland-Vancouver .....	999.5	1,034.8	1,031.3	44.2	40.8	40.7	4.4	3.9	3.9
Salem .....	167.6	168.5	167.9	7.9	7.9	7.7	4.7	4.7	4.6
<b>Pennsylvania</b> .....	5,913.0	6,077.0	5,993.1	283.3	307.7	300.9	4.8	5.1	5.0
Allentown-Bethlehem-Easton .....	304.9	311.5	308.0	15.0	15.8	15.3	4.9	5.1	5.0
Altoona .....	62.3	64.3	62.9	3.0	3.2	3.3	4.8	5.0	5.2
Erie .....	139.8	143.4	141.9	6.9	7.8	7.5	5.0	5.4	5.3
Harrisburg-Lebanon-Carlisle .....	346.5	360.1	352.8	9.8	12.0	11.2	2.8	3.3	3.2
Johnstown .....	104.5	109.2	106.4	7.2	7.4	7.0	6.9	6.8	6.6
Lancaster .....	240.1	247.2	244.6	6.5	7.9	7.8	2.7	3.2	3.2
Philadelphia .....	2,457.2	2,523.1	2,493.7	130.5	125.0	127.1	5.3	5.0	5.1
Pittsburgh .....	1,142.1	1,169.8	1,149.5	50.2	56.2	53.6	4.4	4.8	4.7
Reading .....	181.2	187.9	185.7	6.7	7.6	7.8	3.7	4.1	4.2
Scranton-Wilkes-Barre-Hazleton .....	308.1	318.8	312.6	19.1	22.1	21.4	6.2	6.9	6.9
Sharon .....	55.8	58.2	57.8	1.9	2.9	2.5	3.4	4.9	4.3
State College .....	67.1	66.6	68.9	1.6	1.9	1.7	2.4	2.8	2.5
Williamsport .....	58.2	60.8	60.0	3.1	3.2	3.4	5.4	5.2	5.7
York .....	193.4	196.2	195.5	7.6	7.8	7.5	3.9	4.0	3.8
<b>Rhode Island</b> .....	500.5	513.4	511.1	24.2	24.1	25.2	4.8	4.7	4.9
Providence-Fall River-Warwick .....	571.7	583.2	581.4	29.6	29.4	30.0	5.2	5.0	5.2

See footnotes at end of table.



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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
<b>South Carolina</b> .....	1,850.7	1,931.4	1,908.3	115.7	93.1	89.1	8.3	4.8	4.7
Charleston-North Charleston .....	241.2	257.6	252.1	14.2	11.8	10.3	5.9	4.6	4.1
Columbia .....	258.8	276.0	271.9	9.8	8.0	8.0	3.8	2.9	2.9
Greenville-Spartanburg-Anderson .....	471.8	496.3	491.4	20.8	17.1	15.8	4.4	3.5	3.2
<b>South Dakota</b> .....	391.8	401.1	391.9	11.1	10.9	8.7	2.8	2.7	2.2
Rapid City .....	45.7	48.5	46.8	1.3	1.1	1.0	2.9	2.3	2.2
Sioux Falls .....	94.0	96.9	95.7	2.0	1.5	1.5	2.1	1.6	1.5
<b>Tennessee</b> .....	2,785.1	2,788.6	2,792.7	132.6	147.5	144.0	4.8	5.3	5.2
Chattanooga .....	223.2	222.8	223.1	9.5	11.5	10.7	4.2	5.1	4.8
Johnson City-Kingsport-Bristol .....	229.5	231.2	231.2	10.0	12.2	11.6	4.3	5.3	5.0
Knoxville .....	350.5	346.8	346.5	11.8	13.0	11.9	3.4	3.8	3.4
Memphis .....	544.2	545.6	547.1	23.4	28.6	26.2	4.3	4.9	4.8
Nashville .....	630.8	633.6	638.1	20.8	24.1	23.4	3.3	3.8	3.7
<b>Texas</b> .....	9,756.4	9,997.1	9,954.9	523.4	535.7	512.0	5.4	5.4	5.1
Abilene .....	60.1	60.3	60.8	2.7	2.4	2.2	4.4	4.0	3.6
Amarillo .....	111.8	118.4	115.4	4.2	4.4	4.2	3.8	3.8	3.7
Austin-San Marcos .....	638.4	642.8	644.9	19.4	20.7	20.0	3.0	3.2	3.1
Beaumont-Port Arthur .....	160.5	180.0	160.3	18.0	13.9	14.0	8.9	7.7	7.7
Brazoria .....	105.8	108.0	107.7	7.0	8.2	7.5	6.6	7.8	7.0
Brownsville-Harlingen-San Benito .....	122.5	128.8	126.7	14.0	15.6	14.7	11.5	12.1	11.6
Bryan-College Station .....	70.6	69.1	71.4	1.5	1.6	1.4	2.2	2.3	2.0
Corpus Christi .....	181.4	183.3	182.3	14.7	13.8	13.0	8.1	7.5	7.1
Dallas .....	1,768.8	1,839.8	1,828.1	88.1	70.7	88.2	3.9	3.8	3.7
El Paso .....	291.6	295.7	292.0	34.1	34.2	32.4	11.7	11.6	11.1
Fort Worth-Arlington .....	844.6	867.6	866.0	30.6	31.9	30.6	3.6	3.7	3.5
Galveston-Texas City .....	126.7	130.6	128.4	10.2	10.5	9.8	8.1	8.1	7.8
Houston .....	2,011.2	2,073.7	2,060.8	103.1	104.5	100.0	5.1	5.0	4.9
Killeen-Temple .....	113.2	116.2	115.6	5.3	6.0	5.8	4.7	5.2	5.0
Laredo .....	68.4	70.5	70.7	7.7	6.8	6.7	11.3	9.6	9.5
Longview-Marshall .....	103.7	102.7	102.2	7.7	7.8	7.4	7.4	7.6	7.3
Lubbock .....	121.7	125.0	124.2	4.3	4.9	4.4	3.5	3.9	3.8
McAllen-Edinburg-Mission .....	181.9	188.0	187.6	33.1	31.9	32.0	18.2	17.1	17.1
Odessa-Midland .....	120.8	121.5	120.5	6.5	6.2	5.8	5.3	5.1	4.8
San Angelo .....	51.2	51.0	50.4	1.7	1.8	1.7	3.4	3.5	3.4
San Antonio .....	729.6	750.1	747.6	30.4	32.7	30.5	4.2	4.4	4.1
Sherman-Denison .....	49.5	49.5	49.4	2.0	2.4	2.2	4.1	4.6	4.4
Texarkana .....	57.9	57.3	56.9	4.3	4.2	4.0	7.4	7.3	7.0
Tyler .....	87.0	89.5	89.0	5.7	5.7	5.5	6.5	8.3	6.1
Victoria .....	41.8	43.0	42.5	2.0	2.2	1.9	4.9	5.0	4.5
Waco .....	100.9	101.6	102.6	4.0	5.1	4.7	4.0	5.0	4.6
Wichita Falls .....	68.0	65.6	65.4	2.8	2.9	2.7	4.3	4.4	4.1
<b>Utah</b> .....	1,015.3	1,069.2	1,065.1	34.5	35.4	29.5	3.4	3.3	2.8
Provo-Orem .....	152.0	155.4	159.2	4.6	4.2	3.6	3.0	2.7	2.2
Salt Lake City-Ogden .....	851.8	692.5	685.0	21.0	22.3	16.8	3.2	3.2	2.7
<b>Vermont</b> .....	327.7	332.2	333.2	13.2	11.6	11.0	4.0	3.5	3.3
Burlington .....	97.3	99.1	100.3	2.9	2.5	2.4	3.0	2.5	2.4
<b>Virginia</b> .....	3,359.3	3,575.0	3,523.2	150.3	148.3	143.6	4.5	4.1	4.1
Charlottesville .....	71.1	75.2	74.3	1.7	1.7	1.6	2.5	2.3	2.2
Danville .....	56.1	58.6	58.3	3.9	3.9	3.9	8.9	6.8	6.6
Lynchburg .....	100.7	107.7	105.5	3.5	4.4	4.1	3.5	4.1	3.9
Norfolk-Virginia Beach-Newport News .....	713.4	759.7	746.8	35.9	40.1	38.2	5.0	5.3	5.1
Richmond-Petersburg .....	482.4	515.8	507.8	19.9	19.5	19.6	4.1	3.8	3.9
Roanoke .....	126.1	134.9	133.9	3.7	4.8	4.7	2.9	3.6	3.5
<b>Washington</b> .....	2,871.5	2,994.3	2,971.3	156.9	128.5	126.7	5.5	4.3	4.3
Seattle-Bellevue-Everett .....	1,260.9	1,350.4	1,332.7	55.9	41.9	42.8	4.4	3.1	3.2
Spokane .....	197.4	205.0	202.8	9.5	6.1	6.1	4.8	4.0	4.0
Tacoma .....	312.8	329.1	327.0	17.2	13.8	14.1	5.5	4.2	4.3

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>	Sept. 1996	Aug. 1997	Sept. 1997 <sup>P</sup>
<b>West Virginia</b> .....	811.4	811.4	800.1	54.0	50.8	44.3	6.7	6.3	5.5
Charleston .....	131.7	132.6	130.1	6.4	8.1	5.5	4.8	4.6	4.2
Huntington-Ashland .....	135.4	138.5	137.9	8.7	8.2	8.7	8.4	5.9	6.3
Parkersburg-Marietta .....	77.8	77.8	77.6	4.3	3.7	3.6	5.5	4.8	4.7
Wheeling .....	72.5	74.5	71.9	3.1	3.8	3.4	4.3	5.1	4.8
<b>Wisconsin</b> .....	2,926.4	2,967.5	2,941.9	82.2	95.8	91.5	2.8	3.2	3.1
Appleton-Oshkosh-Neenah .....	221.4	223.0	221.5	5.0	5.9	5.8	2.3	2.6	2.6
Eau Claire .....	79.7	81.2	80.7	2.0	2.3	2.2	2.5	2.9	2.8
Green Bay .....	130.8	131.3	129.8	3.2	3.8	3.8	2.5	2.9	2.9
Janesville-Beloit .....	77.7	77.7	78.9	2.6	2.9	2.9	3.3	3.7	3.7
Kenosha .....	76.1	75.4	74.9	2.3	2.6	2.4	3.0	3.5	3.2
La Crosse .....	71.2	71.7	71.8	1.6	1.8	1.7	2.3	2.6	2.4
Madison .....	258.3	260.8	260.2	3.6	4.0	3.9	1.4	1.5	1.5
Milwaukee-Waukesha .....	800.7	811.6	805.3	26.0	29.6	28.3	3.3	3.6	3.5
Racine .....	94.0	96.7	95.1	3.2	4.0	3.6	3.5	4.2	3.8
Sheboygan .....	61.4	63.1	62.0	1.5	1.5	1.4	2.5	2.4	2.3
Wausau .....	71.0	73.2	71.5	1.8	2.2	1.9	2.6	3.0	2.7
<b>Wyoming</b> .....	259.1	260.2	257.5	11.1	10.1	9.0	4.3	3.9	3.5
Casper .....	32.7	32.9	32.7	1.9	1.6	1.4	5.9	4.9	4.4
<b>Puerto Rico</b> .....	1,270.9	1,315.1	1,320.0	176.0	179.9	178.3	13.8	13.7	13.5
Caguas .....	109.0	115.6	118.2	14.5	14.8	14.3	13.3	12.8	12.3
Mayaguez .....	91.4	93.3	94.2	17.7	15.5	14.7	19.4	16.6	15.7
Ponce .....	107.1	110.3	111.6	20.1	19.7	19.4	18.8	17.9	17.4
San Juan-Bayamon .....	689.8	712.8	714.4	72.8	78.2	78.2	10.5	11.0	10.9

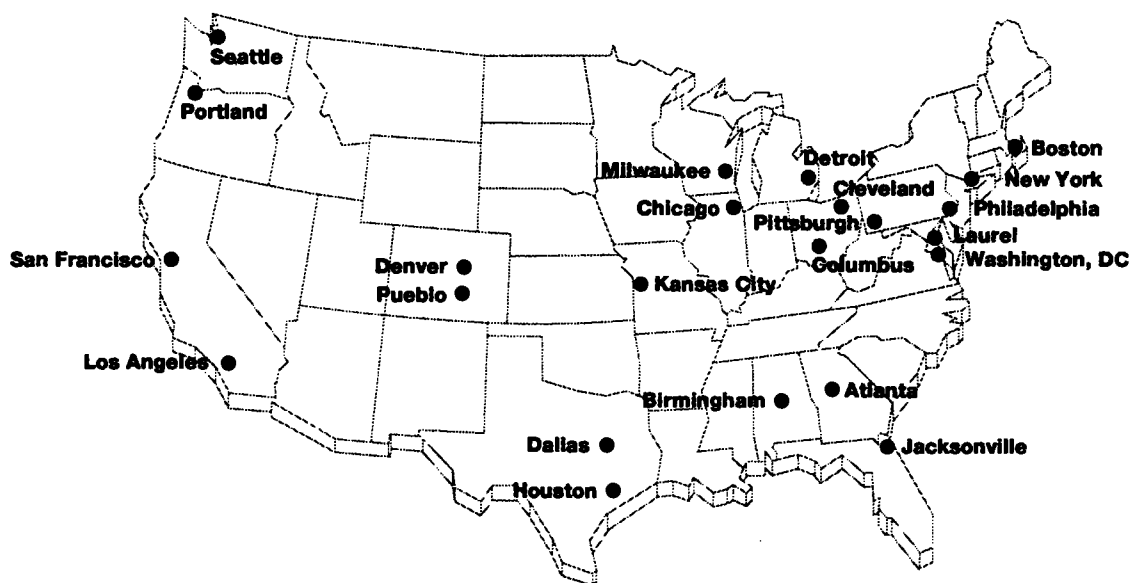
<sup>P</sup> = preliminary.

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

be revised when new benchmark and population information becomes available.

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# 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. A person employed only in private households (cleaner, gardener, babysitter, etc.) who worked for two or more employers during the reference week is not counted as a multiple jobholder, since working for several employers is considered an inherent characteristic of private household work. Also 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 ex-

ample: 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 self-employed persons who respond that 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. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other person



maintaining the family is either self-employed or in the Armed Forces.

## 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. (Persons 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.

### **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 "whole-

sale" 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 counties. In New England and Hawaii, minor civil divisions are used instead of counties.

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

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

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

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

For the purpose of sample selection, census blocks were grouped into three strata: Unit, group quarters, and area.

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

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

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

Units in the three strata described above all existed at the time of the 1990 decennial census. Through a series of additional procedures, a sample of building permits is included in the CPS to represent housing units built after the decen-

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

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

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

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

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

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

**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 1986-96 period. The table displays the average monthly "bias added" and the average monthly "bias required" with the benchmark revisions for each year. Bias added shows the average amount of bias which was added each month over the course of an interbenchmark period. For example, the bias added for 1996 is listed as 129,000; this represents the average of bias adjustments made each month over the period April 1995 through March 1996. Bias required is computed retrospectively, after the March benchmark for a given year is known. Bias required figures are calculated by taking the difference between a March estimate derived purely from the sample (i.e. a series calculated without bias adjustment) and the March benchmark. Dividing this figure by 12 gives the average monthly bias required figure. The bias required is thus defined as the amount of bias adjustment which would have achieved a zero benchmark error. The difference between the total bias required and the total bias added is then, by definition, approximately the benchmark revision amount, for any given year. Also provided in the table for illustration, are the March-to-March changes. As discussed above, the over-the-year changes indicate correlation with the bias added and bias required figures.

## THE SAMPLE

### Design

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

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

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

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

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

### Coverage

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

### Reliability

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

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

**Table 2-B. March employment benchmarks and bias adjustments for total private industries, March 1986-96**  
(In thousands)

Year	Benchmark		Average monthly bias		Over-the-year employment change <sup>5</sup>
	Employment <sup>1</sup>	Revision <sup>2</sup>	Added <sup>3</sup>	Required <sup>4</sup>	
1986 .....	81,204	-400	149	116	1,758
1987 .....	83,173	21	98	99	1,969
1988 .....	86,180	-310	114	88	3,007
1989 .....	89,015	-93	131	123	2,835
1990 .....	90,546	-261	85	63	1,531
1991 .....	88,790	-583	61	12	-1,756
1992 .....	88,347	-130	33	22	-443
1993 .....	89,790	288	83	107	1,443
1994 .....	92,730	688	115	171	2,940
1995 .....	96,175	511	144	187	3,445
1996 .....	98,158	72	129	135	1,983

<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 1996**

Industry	Bench- marks (thou- sands)	Sample coverage <sup>1</sup>		
		Number of estab- lish- ments	Employees	
			Number (thou- sands)	Percent of bench- marks
Total .....	117,952	327,799	44,496	38
Mining .....	566	3,172	237	42
Construction .....	4,952	26,429	978	20
Manufacturing .....	18,366	58,259	8,968	49
Transportation and public utilities .....	6,159	<sup>2</sup> 16,432	2,358	38
Wholesale trade ..	6,396	25,768	1,153	18
Retail trade .....	21,023	63,150	4,959	24
Finance, insurance, and real estate ...	6,815	24,268	2,200	32
Services .....	33,881	78,057	8,286	24
Government:				
Federal .....	2,770	<sup>3</sup> 5,335	2,770	100
State .....	4,750	7,098	3,987	84
Local .....	12,274	19,831	8,600	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 62 percent of employment in Federal establishments.

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

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

See footnotes at end of table.



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

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

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

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

<sup>3</sup> Data relate to 1989-96.

<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 .....	61,300	0	0
Total private .....	52,300	0	0
Goods-producing .....	14,200	0	0
Mining .....	2,300	-0.1	.3
Metal mining .....	300	0	.4
Coal mining .....	900	-.1	.6
Oil and gas extraction .....	2,200	-.1	.5
Nonmetallic minerals, except fuels .....	300	0	.3
Construction .....	9,000	.1	.1
General building contractors .....	4,400	.1	.3
Heavy construction, except building .....	3,700	.1	.4
Special trade contractors .....	5,700	.1	.1
Manufacturing .....	10,200	0	0
Durable goods .....	6,700	0	.1
Lumber and wood products .....	1,300	.1	.1
Furniture and fixtures .....	1,300	0	.2
Stone, clay, and glass products .....	1,100	0	.2
Primary metal industries .....	1,400	0	.1
Blast furnaces and basic steel products .....	1,300	0	.4
Fabricated metal products .....	1,800	0	.1
Industrial machinery and equipment .....	2,600	0	.1
Computer and office equipment .....	1,400	.1	.3
Electronic and other electrical equipment .....	2,400	.1	.1
Electronic components and accessories .....	1,300	.1	.2
Transportation equipment .....	4,300	0	.2
Motor vehicles and equipment .....	3,700	.1	.3
Aircraft and parts .....	1,800	-.1	.2
Instruments and related products .....	1,700	0	.1
Miscellaneous manufacturing .....	1,200	0	.2
Nondurable goods .....	5,500	0	.1
Food and kindred products .....	3,300	-.1	.2
Tobacco products .....	500	.3	.8
Textile mill products .....	1,100	0	.1
Apparel and other textile products .....	2,500	.1	.2
Paper and allied products .....	1,200	0	.1
Printing and publishing .....	1,700	.1	.1
Chemicals and allied products .....	1,800	-.1	.1
Petroleum and coal products .....	1,000	-.1	.5
Rubber and miscellaneous plastics products .....	1,600	0	.1
Leather and leather products .....	700	-.1	.4
Service-producing .....	57,600	0	0
Transportation and public utilities .....	9,200	-.1	.1
Transportation .....	8,100	-.1	.2
Railroad transportation .....	2,200	-.3	.7
Local and interurban passenger transit .....	3,500	-.2	.5
Trucking and warehousing .....	5,400	-.1	.2
Water transportation .....	1,500	-.3	.7
Transportation by air .....	2,500	-.1	.3
Pipelines, except natural gas .....	200	-.4	.8
Transportation services .....	1,200	-.1	.3
Communications and public utilities .....	4,600	0	.1
Communications .....	4,500	0	.2
Electric, gas, and sanitary services .....	1,600	0	.1
Wholesale trade .....	7,700	.1	.1
Durable goods .....	4,400	.1	.1
Nondurable goods .....	4,800	.1	.1

See footnotes at end of table.

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

Industry	Root-mean-square error of monthly level <sup>1</sup>	Mean percent revision	
		Actual	Absolute
Retail trade .....	33,100	.1	.1
Building materials and garden supplies .....	2,800	0	.3
General merchandise stores .....	17,600	.2	.5
Department stores .....	16,200	.2	.5
Food stores .....	6,300	.1	.1
Automotive dealers and service stations .....	2,700	0	.1
New and used car dealers .....	1,200	-.1	.1
Apparel and accessory stores .....	5,800	.2	.4
Furniture and home furnishings stores .....	3,600	.1	.3
Eating and drinking places .....	12,400	.1	.1
Miscellaneous retail establishments .....	8,500	.2	.3
Finance, insurance, and real estate .....	6,100	0	.1
Finance .....	3,800	0	.1
Depository institutions .....	2,800	-.1	.1
Commercial banks .....	2,300	-.1	.1
Savings institutions .....	1,100	-.1	.3
Nondepository institutions .....	1,400	.1	.2
Mortgage bankers and brokers .....	1,000	0	.3
Security and commodity brokers .....	900	0	.1
Holding and other investment offices .....	1,600	-.1	.5
Insurance .....	2,800	0	.1
Insurance carriers .....	2,400	0	.1
Insurance agents, brokers, and service .....	1,000	0	.1
Real estate .....	2,700	0	.2
Services <sup>2</sup> .....	29,100	0	.1
Agricultural services .....	3,200	.2	.4
Hotels and other lodging places .....	5,900	.2	.3
Personal services .....	8,100	-.1	.4
Business services .....	13,900	.1	.2
Services to buildings .....	2,800	0	.3
Personnel supply services .....	11,800	.2	.4
Help supply services .....	11,400	.2	.4
Computer and data processing services .....	2,400	0	.2
Auto repair, services, and parking .....	1,900	0	.1
Miscellaneous repair services .....	1,100	0	.2
Motion pictures .....	5,500	0	.8
Amusement and recreation services .....	9,700	.3	.6
Health services .....	5,300	0	0
Offices and clinics of medical doctors .....	2,700	0	.1
Nursing and personal care facilities .....	2,000	0	.1
Hospitals .....	2,800	0	.1
Home health care services .....	1,800	.1	.3
Legal services .....	1,100	0	.1
Educational services .....	13,200	0	.6
Social services .....	7,900	.1	.3
Child day care services .....	4,800	.3	.7
Residential care .....	1,300	0	.2
Museums and botanical and zoological gardens .....	700	.2	.7
Membership organizations .....	3,800	0	.2
Engineering and management services .....	4,900	0	.2
Engineering and architectural services .....	2,400	0	.3
Management and public relations .....	3,100	.1	.3
Services, nec .....	400	.1	.8
Government .....	23,900	0	.1
Federal .....	10,400	0	.3
Federal, except Postal Service .....	8,900	0	.3
State .....	11,600	0	.2
Education .....	10,900	0	.5
Other State government .....	4,700	0	.1
Local .....	18,800	0	.1
Education .....	16,000	.1	.2
Other local government .....	12,100	0	.2

<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 1992 through December 1996.

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

## FEDERAL-STATE COOPERATIVE PROGRAM

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

Annual average data for the States and over 270 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. 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 procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual aver-

age, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

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

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

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

*Preliminary estimate—unemployment.* In the current month,

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

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

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

## Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other non-seasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, because they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published monthly in *Employment and Earnings*.

### Household data

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

BLS uses an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January-June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data, usually for the most recent 5 years, are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970. In 1994, data were revised only for that year because of the major redesign and

1990 census-based population controls, adjusted for the estimated undercount, introduced into the Current Population Survey. In 1996, 1990-93 data also were revised to incorporate these 1990 census-based population controls and seasonally adjusted series were revised back to 1990. Subsequent revisions are only carried back to 1994.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components and four seasonally adjusted unemployment components. The total for unemployment is the sum of the four unemployment components, and the unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

In each January issue (March issue in 1996), *Employment and Earnings* publishes revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment estimate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure.

### Establishment data

In June 1997, with the release of the March 1996 benchmark revisions, BLS utilizes an updated version of the X-12 ARIMA software developed by the Bureau of the Census to seasonally adjust national establishment-based employment, hours, and earnings series. The X-12 ARIMA (first introduced in June 1996) replaces the X-11 ARIMA, which had been used to adjust these series since the early 1980's. All national establishment-based series were revised back to 1988.

The conversion to X-12 ARIMA allows BLS to refine its seasonal adjustment procedures to control for survey interval variations, sometime referred to as the 4-vs. 5-week effect. While the CES survey is referenced to a consistent concept, the pay period including the 12th day of the month, inconsistencies arise because there are variations of 4 or 5 weeks between the week of the 12th in any given pair of months. In highly seasonal months and industries, this varia-

tion can be an important determinant of the magnitude of seasonal hires or layoffs that have occurred at the time the survey is taken, thereby complicating seasonal adjustment. The interval effect adjustment is accomplished through the REGARIMA (regression with auto-correlated errors) option in the X-12 software. This process combines standard regression analysis, which measures correlations between two or more variables, with ARIMA modeling, which describes and predicts the behavior of a data series based on its own past history. In this application, the correlations of interest are those between employment levels in individual calendar months and the length of the survey intervals for those months. The REGARIMA models estimate and remove the variation in employment levels attributable to 11 separate survey intervals, one specified for each month, except March. March is excluded because there are always 4 weeks between the February and March surveys.

Projected seasonal factors for the establishment-based series are calculated and published twice a year, paralleling the procedure used for the household series. Revisions to historical data are made once a year, coincident with benchmark revisions. All series are seasonally adjusted using multiplicative models in X-12; additive models are not considered. Seasonal adjustment factors are computed and applied at component levels. For employment series, these are generally the 2-digit SIC levels. Seasonally adjusted totals are arithmetic aggregations for employment series and weighted averages of the seasonally adjusted data for hours and earnings series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 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, seasonally adjusted, 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 failed or unsatisfactory seasonally adjusted series, however, are used in the aggregation to broader level seasonally adjusted series.

Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census workers for the

decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

BLS also makes special adjustments for floating holidays for the establishment-based series on average weekly hours and manufacturing overtime hours. From 1988 forward, these adjustments are now accomplished as part of the X-12 ARIMA/REGARIMA modeling process rather than through the previously used moving-holiday extension of X-11 ARIMA. The special adjustment made in November each year to adjust for the effect of poll workers in the local government employment series also is incorporated into the X-12 process from 1988 forward; this replaces the X-11 ARIMA-based procedure previously used to account for this effect.

Revised seasonally adjusted national establishment-based series based on the experience through March 1997, new seasonal adjustment factors for March-October 1997, and a description of the current seasonal adjustment procedure appear in the June 1997 issue of *Employment and Earnings*. Revised factors for the September 1997-April 1998 period will appear in the December issue.

Beginning in 1993, BLS introduced publication of seasonally adjusted nonfarm payroll employment data by major industry for all States and the District of Columbia (table B-7). Seasonal adjustment factors are applied directly to the employment estimates at the division level (component series for manufacturing and trade) and then aggregated to the State totals. The recomputation of seasonal factors and historical revisions are made coincident with the annual benchmark adjustments. State estimation procedures are designed to produce accurate (unadjusted and seasonally adjusted) data for each individual State. BLS independently develops a national employment series; State estimates are not forced to sum to national totals. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause significant distortions at an aggregate level. Due to these statistical limitations, BLS does not compile a "sum-of-States" employment series, and cautions users that such a series is subject to a relatively large and volatile error structure.

### **Region and State labor force data**

Beginning in 1992, BLS introduced publication of seasonally adjusted labor force data for the census regions and divisions, the 50 States, and the District of Columbia (tables C-1 and C-2). 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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