

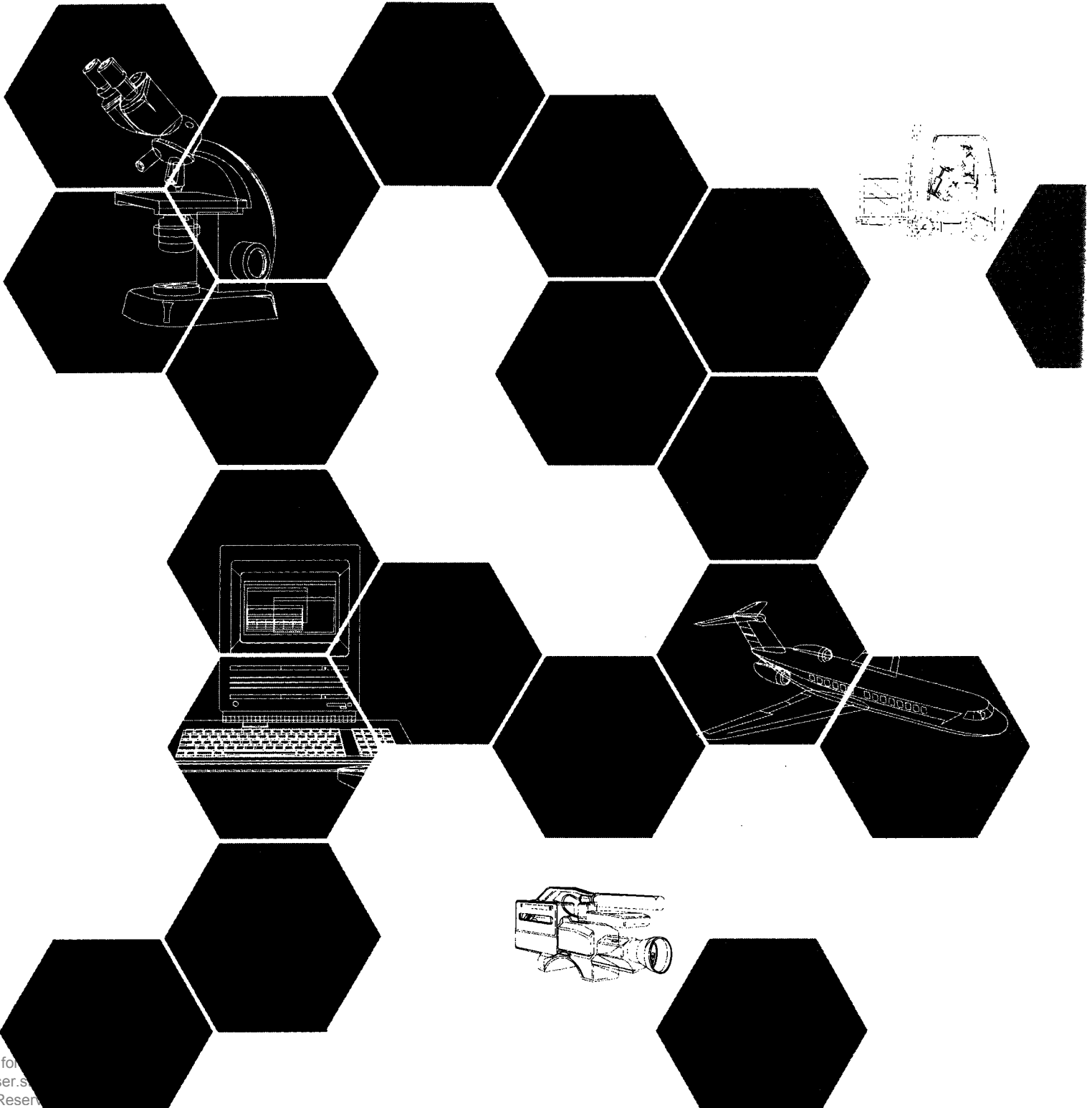
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# EMPLOYMENT AND EARNINGS

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

00 21



# Monthly Household Data

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# Employment and Unemployment Developments, August 1997

Employment and unemployment were little changed in August. The jobless rate was 4.9 percent in August; it had been 4.8 percent in July and has shown little movement over the past several months.

Nonfarm payroll employment edged up by 49,000 in August to 122.5 million. This gain would have been closer to the recent growth trend if not for the effects of strike activity during the survey reference period. Workers on strike for the entire reference period are not counted as employed in the survey of establishments because they are not being paid by their employers. In contrast, in the household survey, striking workers and others with unpaid absences are counted as employed.

## Unemployment

The number of unemployed persons, 6.7 million, and the unemployment rate, 4.9 percent, were essentially unchanged in August. From April through August, the unemployment rate remained in a narrow range of 4.8 to 5.0 percent. The rates for the major worker groups—adult men (4.1 percent), adult women (4.4 percent), teenagers (16.4 percent), whites (4.2 percent), blacks (9.3 percent), and Hispanics (7.2 percent)—showed little or no change from July. (See tables A-3 and A-4.)

The number of persons unemployed for less than 5 weeks increased in August, reversing July's decline, while the number who were jobless for 15 to 26 weeks decreased. Both the mean and median duration of unemployment, which had risen in July, declined to 15.9 and 7.8 weeks, respectively. (See table A-12.)

## Total employment and the labor force

Total employment was essentially unchanged from July at a seasonally adjusted level of 129.8 million. The proportion of the population that was employed (the employment-to-population ratio) remained at 63.8 percent, about the same as it has been since March. (See table A-3.)

About 7.6 million persons (not seasonally adjusted) held more than one job in August. They accounted for 5.8 percent of all employed persons. Both the number of multiple jobholders and their percentage of the total employed were about the same as a year earlier. (See table A-35.)

The civilian labor force, 136.5 million, was about unchanged in August, and the labor force participation rate remained at 67.1 percent. There has been little change in either measure since March. (See table A-3.)

## Persons not in the labor force

About 1.3 million persons (not seasonally adjusted) were marginally attached to the labor force in August—that is, they wanted and were available for work and had looked for jobs sometime in the prior 12 months.

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 311,000 in August, down from 415,000 a year earlier. (See table A-34.)

## Industry payroll employment

Nonfarm payroll employment was little changed in August. Employment growth was held down by a strike of 185,000 workers in the transportation industry. (See table B-3.)

Employment in transportation declined by 153,000. The direct impact of the strike was partially offset by hiring elsewhere within the industry to help meet the demand for parcel delivery. Employment fell by 164,000 in transportation by air, the industry in which the strike occurred. Trucking employment increased by 12,000, compared with an average gain of 6,000 over the prior 3 months.

Employment in services rose by only 32,000 in August, following a much stronger increase in July. The average employment gain of 94,000 over these 2 months was close to the average monthly growth in 1996 and the first half of 1997. The increase in health services (21,000) was in line with recent growth in that industry, although there was an especially strong gain in hospitals (11,000). Employment growth also continued in computer services (10,000), social services (15,000), and engineering and management services (17,000). In contrast, help supply services experienced a decline of 16,000 jobs in August, the fourth decline in the last 5 months. Amusement and recreation services and educational services both lost jobs, following strong summer hiring.

Retail trade added 31,000 jobs in August, following larger increases in June and July. Employment expanded by 15,000 in general merchandise stores and by 11,000 in miscellaneous retail establishments. The number of jobs in eating and drinking places edged down in August, following gains totaling 60,000 over the prior 2 months. Wholesale trade showed moderate growth in August (8,000), following an exceptionally large increase in July. Within wholesale trade,

durable goods distribution continued its strong growth pattern, with an increase of 14,000 jobs.

Employment growth continued in finance (10,000) in August. Job gains in the industry have totaled 98,000 over the past year. Insurance continued its recent upward trend, adding 14,000 jobs since March. In contrast, real estate employment was about unchanged in August after gaining 10,000 jobs in July.

Employment in local government education rose by 49,000 in August, after seasonal adjustment. This was the third consecutive large employment increase. Changing seasonal patterns in hiring by local school systems continue to make precise seasonal adjustment of these data difficult. An increase in Federal Government employment reflected the hiring of postal workers to handle a greater volume of parcel delivery resulting from the strike. Excluding the Postal Service, Federal Government employment continued its monthly declines in August and was down by 36,000 so far this year.

Within the goods-producing sector, construction employment increased by 10,000 in August, the first gain since May. Employment rose in heavy construction as well as in special trades. Manufacturing employment rose by 47,000 in August. The increase includes the return of 10,000 auto and steel workers who had been on strike. In several industries, the job gains in August offset losses that occurred in July; these include fabricated metals (4,000), autos

(16,000), and rubber and miscellaneous plastics (6,000). Three industries continued their strong growth trend: industrial machinery (12,000), electronic components (6,000), and aircraft (4,000). The number of jobs in both textiles and apparel continued to decline. Employment in food products also fell slightly and was down by 18,000 since April.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls increased by 0.2 hour in August to 34.7 hours, seasonally adjusted. The manufacturing workweek and factory overtime both edged up by 0.1 hour, to 41.9 and 4.8 hours, respectively. (See table B-8.)

The index of aggregate weekly hours of private production or nonsupervisory workers on nonfarm payrolls increased by 0.4 percent to 140.8 (1982=100), seasonally adjusted. The manufacturing index rose by 0.5 percent to 108.2. (See table B-9.)

### Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers on nonfarm payrolls were up 5 cents in August to \$12.29, seasonally adjusted. Average weekly earnings rose by 1.0 percent to \$426.46, reflecting the increase in both average weekly hours and average hourly earnings. Over the past year, average hourly earnings have risen by 3.6 percent and average weekly earnings by 4.2 percent. (See table B-11.)

### Changes in Household Data Series

Effective with the release of data for December 1997 in January 1998, improvements will be introduced into the composite estimation procedures used in the Current Population Survey. These changes will simplify processing of the monthly labor force data at BLS and will allow users of the survey microdata to replicate 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 will produce somewhat lower estimates of the civilian labor force and employment. Data will be revised back to January 1997 to facilitate over-the-year comparisons between 1997 and 1998.

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
Reference month	Release date	Reference month	Release date
September	October 3	December	January 9
October	November 7	January	February 6
November	December 5	February	March 6

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

(Numbers in thousands)

Category	1996					1997							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Labor force status</b>													
Civilian noninstitutional population .....	200,847	201,061	201,273	201,463	201,636	202,285	202,389	202,513	202,674	202,832	203,000	203,166	203,364
Civilian labor force .....	133,898	134,291	134,636	134,831	135,022	135,848	135,634	136,319	136,098	136,173	136,200	136,290	136,480
Percent of population .....	66.7	66.8	66.9	66.9	67.0	67.2	67.0	67.3	67.2	67.1	67.1	67.1	67.1
Employed .....	126,988	127,248	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804
Percent of population .....	63.2	63.3	63.4	63.4	63.4	63.6	63.5	63.8	63.8	63.9	63.7	63.8	63.8
Unemployed .....	6,910	7,043	7,019	7,187	7,167	7,268	7,205	7,144	6,714	6,534	6,836	6,583	6,677
Not in labor force .....	66,949	66,770	66,637	66,632	66,614	66,437	66,754	66,194	66,577	66,659	66,800	66,876	66,884
<b>Unemployment rates</b>													
All workers .....	5.2	5.2	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9
Men, 20 years and over .....	4.2	4.5	4.4	4.4	4.4	4.6	4.4	4.4	4.2	3.8	4.2	4.0	4.1
Women, 20 years and over .....	4.7	4.6	4.7	4.8	4.9	4.6	4.7	4.7	4.4	4.5	4.4	4.2	4.4
Both sexes, 16 to 19 years .....	17.0	16.0	16.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4
White .....	4.5	4.5	4.5	4.6	4.6	4.6	4.5	4.5	4.2	4.0	4.2	4.2	4.2
Black .....	10.4	10.7	10.7	10.6	10.5	10.8	11.3	10.7	9.8	10.3	10.4	9.4	9.3
Hispanic origin .....	8.8	8.3	8.2	8.3	7.7	6.3	8.1	8.6	8.1	7.4	7.6	7.9	7.2

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>	Aug. <sup>P</sup>
<b>Employment</b>													
Total .....	119,983	120,019	120,248	120,450	120,659	120,909	121,162	121,344	121,671	121,834	122,056	122,421	122,470
Total private .....	100,433	100,506	100,759	100,856	101,145	101,380	101,615	101,799	102,092	102,269	102,417	102,684	102,671
Goods-producing industries .....	24,468	24,439	24,479	24,508	24,540	24,581	24,653	24,670	24,667	24,702	24,714	24,696	24,751
Mining .....	574	571	570	571	571	574	574	572	573	576	574	573	571
Construction .....	5,433	5,441	5,467	5,495	5,521	5,542	5,604	5,609	5,599	5,628	5,622	5,622	5,632
Manufacturing .....	18,461	18,427	18,442	18,442	18,448	18,465	18,475	18,489	18,495	18,496	18,518	18,501	18,548
Service-producing industries .....	85,515	85,580	85,769	85,942	86,119	86,328	86,509	86,674	87,004	87,132	87,342	87,725	87,719
Transportation and public utilities .....	6,299	6,290	6,293	6,303	6,298	6,351	6,376	6,405	6,421	6,431	6,434	6,453	6,293
Wholesale trade .....	6,497	6,513	6,536	6,549	6,559	6,570	6,593	6,611	6,622	6,630	6,634	6,664	6,672
Retail trade .....	21,692	21,718	21,791	21,847	21,912	21,917	21,922	21,945	22,028	22,028	22,079	22,150	22,181
Finance, insurance, and real estate .....	6,917	6,925	6,941	6,949	6,982	6,971	6,980	6,992	7,019	7,029	7,034	7,054	7,065
Services .....	34,580	34,621	34,717	34,800	34,884	34,990	35,091	35,176	35,334	35,451	35,522	35,677	35,709
Government .....	19,550	19,513	19,489	19,494	19,514	19,529	19,547	19,545	19,579	19,565	19,639	19,727	19,799
<b>Over-the-month change</b>													
Total .....	292	36	229	202	209	250	253	182	327	163	222	365	49
Total private .....	197	73	253	197	189	235	235	184	293	177	148	277	-23
Goods-producing industries .....	35	-29	40	29	32	41	72	17	-3	35	12	-18	55
Mining .....	0	-3	-1	1	0	3	0	-2	1	3	-2	-1	-2
Construction .....	18	8	26	28	26	21	62	5	-10	29	-8	0	10
Manufacturing .....	19	-34	15	0	6	17	10	14	6	3	20	-17	47
Service-producing industries .....	257	85	189	173	177	209	181	185	330	128	210	383	-6
Transportation and public utilities .....	3	-9	3	10	-15	63	25	29	18	10	3	19	-160
Wholesale trade .....	16	18	25	11	10	11	23	18	11	8	4	30	8
Retail trade .....	41	28	73	56	65	5	5	23	64	-3	53	71	31
Finance, insurance, and real estate .....	7	8	16	8	13	9	9	12	27	10	5	20	11
Services .....	95	61	96	83	84	106	101	85	158	117	71	155	32
Government .....	95	-37	-24	5	20	15	18	-2	34	-14	74	88	72
<b>Hours of work<sup>1</sup></b>													
Total private .....	34.5	34.7	34.4	34.5	34.7	34.4	34.8	34.8	34.5	34.5	34.6	34.5	34.7
Manufacturing .....	41.7	41.7	41.7	41.7	42.0	41.8	41.9	42.1	42.1	42.0	41.8	41.8	41.9
Overtime .....	4.5	4.5	4.5	4.6	4.7	4.7	4.7	4.9	4.9	4.8	4.8	4.7	4.8
<b>Indexes of aggregate weekly hours (1982=100)<sup>1</sup></b>													
Total private .....	137.1	137.9	137.2	137.9	138.1	138.2	140.0	140.2	139.6	140.0	140.6	140.3	140.8
Manufacturing .....	107.2	107.1	106.9	107.2	107.8	107.4	107.9	108.3	108.5	108.3	107.8	107.7	108.2
<b>Earnings<sup>1</sup></b>													
Average hourly earnings, total private:													
Current dollars .....	\$11.86	\$11.91	\$11.91	\$11.98	\$12.03	\$12.05	\$12.10	\$12.14	\$12.14	\$12.19	\$12.23	\$12.24	\$12.29
Constant (1982) dollars <sup>2</sup> .....	7.44	7.45	7.42	7.44	7.45	7.46	7.47	7.49	7.49	7.52	7.54	7.53	N.A.
Average weekly earnings, total private .....	409.17	413.28	409.70	413.31	417.44	414.52	421.08	422.47	418.83	420.56	423.18	422.28	\$428.48

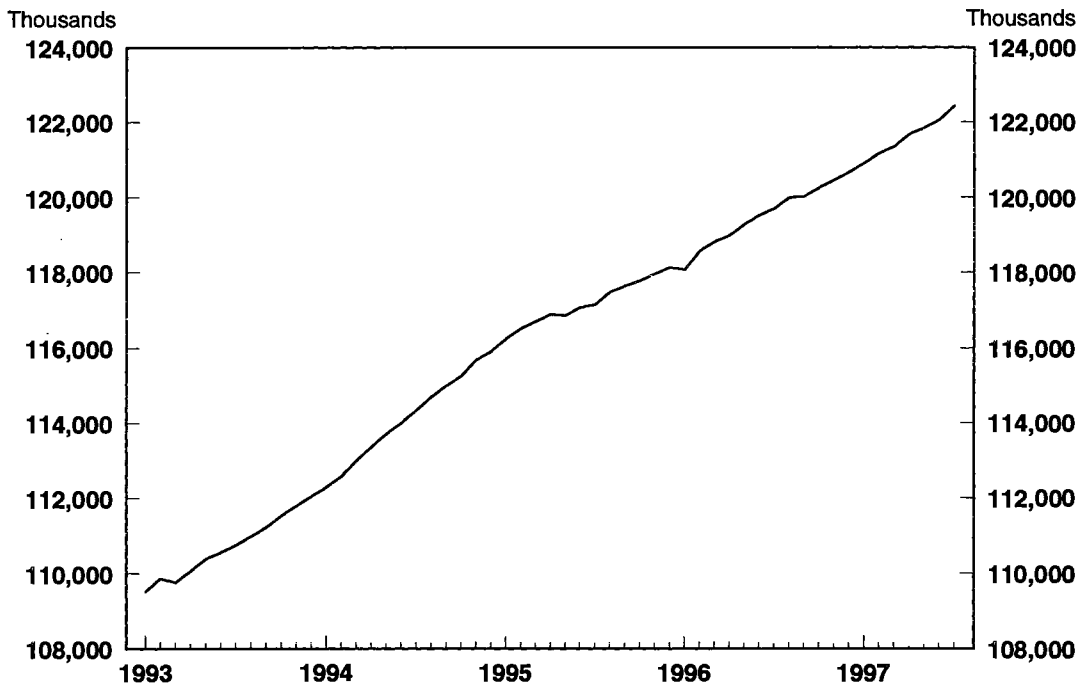
<sup>1</sup> Data relate to private production or nonsupervisory workers.

N.A. = not available.

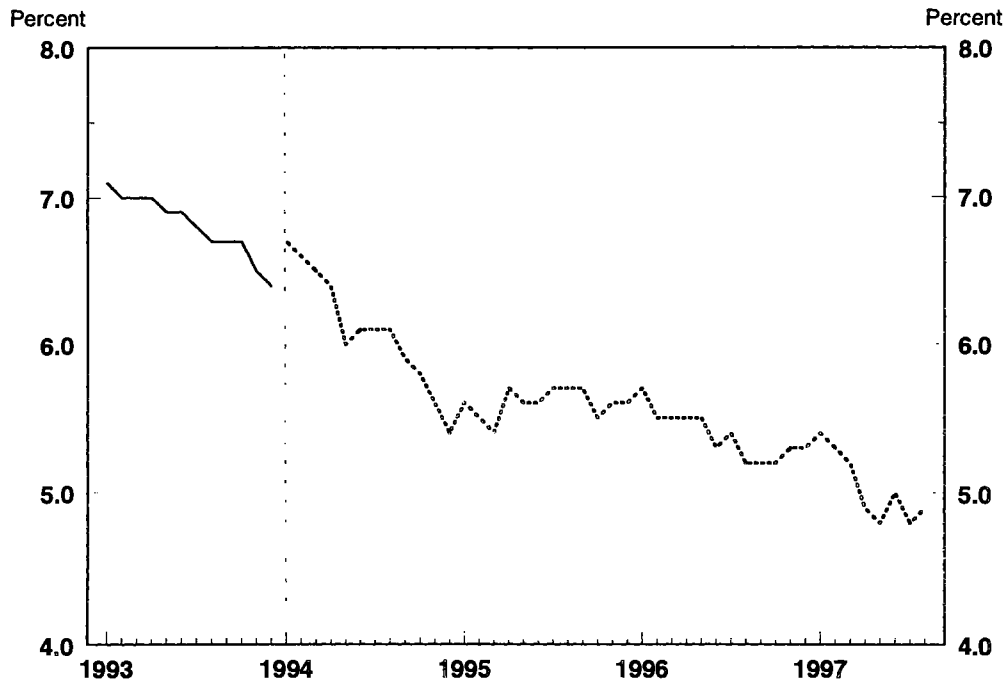
<sup>2</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<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	
<b>Annual averages</b>										
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	56.2	4,361	66,726	3,366	4.5	52,058
1966 .....	128,058	75,770	59.2	72,895	56.9	3,979	68,915	2,875	3.8	52,288
1967 .....	129,874	77,347	59.6	74,372	57.3	3,844	70,527	2,975	3.8	52,527
1968 .....	132,028	78,737	59.6	75,920	57.5	3,817	72,103	2,817	3.6	53,291
1969 .....	134,335	80,734	60.1	77,902	58.0	3,606	74,296	2,832	3.5	53,602
1970 .....	137,085	82,771	60.4	78,678	57.4	3,463	75,215	4,093	4.9	54,315
1971 .....	140,216	84,382	60.2	79,367	56.6	3,394	75,972	5,016	5.9	55,834
1972 <sup>1</sup> .....	144,126	87,034	60.4	82,153	57.0	3,484	78,669	4,882	5.6	57,091
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	57.8	3,470	81,594	4,365	4.9	57,667
1974 .....	150,120	91,949	61.3	86,794	57.8	3,515	83,279	5,156	5.8	58,171
1975 .....	153,153	93,775	61.2	85,846	56.1	3,408	82,438	7,929	8.5	59,377
1976 .....	156,150	96,158	61.6	88,752	56.8	3,331	85,421	7,406	7.7	59,991
1977 .....	159,033	99,009	62.3	92,017	57.9	3,283	88,734	6,991	7.1	60,025
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	59.3	3,387	92,661	6,202	6.1	59,659
1979 .....	164,863	104,962	63.7	98,824	59.9	3,347	95,477	6,137	5.8	59,900
1980 .....	167,745	106,940	63.8	99,303	59.2	3,364	95,938	7,637	7.1	60,806
1981 .....	170,130	108,670	63.9	100,397	59.0	3,368	97,030	8,273	7.6	61,460
1982 .....	172,271	110,204	64.0	99,526	57.8	3,401	96,125	10,678	9.7	62,067
1983 .....	174,215	111,550	64.0	100,834	57.9	3,383	97,450	10,717	9.6	62,665
1984 .....	176,383	113,544	64.4	105,005	59.5	3,321	101,685	8,539	7.5	62,839
1985 .....	178,206	115,461	64.8	107,150	60.1	3,179	103,971	8,312	7.2	62,744
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	60.7	3,163	106,434	8,237	7.0	62,752
1987 .....	182,753	119,865	65.6	112,440	61.5	3,208	109,232	7,425	6.2	62,888
1988 .....	184,613	121,669	65.9	114,988	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	128,346	66.2	117,718	61.7	3,269	114,449	8,628	6.8	64,578
1992 .....	192,805	128,105	66.4	118,492	61.5	3,247	115,245	9,813	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	7,998	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1996:</b>										
August .....	200,847	133,898	66.7	128,988	63.2	3,418	123,570	6,910	5.2	66,949
September .....	201,061	134,291	66.8	127,248	63.3	3,480	123,788	7,043	5.2	68,770
October .....	201,273	134,636	66.9	127,617	63.4	3,450	124,167	7,019	5.2	68,637
November .....	201,463	134,831	66.9	127,644	63.4	3,354	124,290	7,187	5.3	68,632
December .....	201,638	135,022	67.0	127,855	63.4	3,426	124,429	7,187	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	7,288	5.4	66,437
February .....	202,389	135,634	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	3,366	125,789	7,144	5.2	66,194
April .....	202,874	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	8,534	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	66,676
August .....	203,364	136,480	67.1	129,804	63.8	3,363	126,421	6,677	4.9	66,884

<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 noninstitutional population	Civilian labor force								Not in labor force
		Number	Percent of population	Employed				Unemployed		
				Number	Percent of population	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
<b>MEN</b>										
1986 <sup>1</sup>	85,798	65,422	76.3	60,892	71.0	2,511	58,381	4,530	6.9	20,376
1987	86,899	66,207	76.2	62,107	71.5	2,543	59,564	4,101	6.2	20,692
1988	87,657	66,927	76.2	63,273	72.0	2,493	60,780	3,655	5.5	20,930
1989	88,762	67,840	76.4	64,315	72.5	2,513	61,802	3,525	5.2	20,923
1990 <sup>1</sup>	90,377	69,011	76.4	65,104	72.0	2,546	62,559	3,906	5.7	21,367
1991	91,278	69,168	75.8	64,223	70.4	2,589	61,634	4,946	7.2	22,110
1992	92,270	69,984	75.8	64,440	69.8	2,575	61,866	5,523	7.9	22,306
1993	93,332	70,404	75.4	65,349	70.0	2,478	62,871	5,055	7.2	22,927
1994 <sup>1</sup>	94,355	70,817	75.1	66,450	70.4	2,554	63,896	4,367	6.2	23,538
1995	95,178	71,360	75.0	67,377	70.8	2,559	64,818	3,983	5.6	23,818
1996	96,206	72,087	74.9	68,207	70.9	2,573	65,634	3,880	5.4	24,119
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1996:</b>										
August	96,335	71,961	74.7	68,368	71.0	2,550	65,818	3,593	5.0	24,374
September	98,447	72,087	74.7	68,304	70.8	2,592	65,712	3,783	5.2	24,360
October	96,556	72,363	74.9	68,647	71.1	2,607	66,040	3,716	5.1	24,193
November	96,654	72,382	74.9	68,589	71.0	2,525	66,064	3,773	5.2	24,292
December	96,742	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	73,106	75.2	69,184	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	73,268	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	2,674	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	66,988	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	97,836	73,315	74.9	69,791	71.3	2,494	67,297	3,524	4.8	24,522
<b>Annual averages</b>										
<b>WOMEN</b>										
1986 <sup>1</sup>	94,789	52,413	55.3	48,706	51.4	652	48,054	3,707	7.1	42,376
1987	95,853	53,658	56.0	50,334	52.5	666	49,668	3,324	8.2	42,195
1988	96,758	54,742	56.8	51,696	53.4	676	51,020	3,046	5.6	42,014
1989	97,630	56,030	57.4	53,027	54.3	887	52,341	3,003	5.4	41,601
1990 <sup>1</sup>	98,787	58,829	57.5	53,689	54.3	678	53,011	3,140	5.5	41,957
1991	99,646	57,178	57.4	53,498	53.7	680	52,815	3,683	6.4	42,488
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	8.8	42,711
1994 <sup>1</sup>	102,460	60,239	58.8	56,610	55.3	855	55,755	3,629	8.0	42,221
1995	103,406	60,944	58.9	57,523	55.6	881	58,642	3,421	5.6	42,482
1996	104,385	61,857	59.3	58,501	56.0	871	57,630	3,356	5.4	42,528
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1996:</b>										
August	104,512	61,937	59.3	58,620	56.1	868	57,752	3,317	5.4	42,575
September	104,614	62,204	59.5	58,944	56.3	888	58,058	3,260	5.2	42,410
October	104,717	62,273	59.5	58,970	56.3	843	58,127	3,303	5.3	42,444
November	104,809	62,469	59.6	59,055	56.3	829	58,226	3,414	5.5	42,340
December	104,894	62,608	59.7	59,146	56.4	808	58,340	3,460	5.5	42,286
<b>1997:</b>										
January <sup>3</sup>	105,022	62,742	59.7	59,416	56.6	857	58,559	3,327	5.3	42,279
February	105,068	62,647	59.8	59,197	56.3	822	58,375	3,450	5.5	42,421
March	105,127	63,051	60.0	59,697	56.8	802	58,895	3,354	5.3	42,078
April	105,200	62,886	59.8	59,758	56.8	822	58,934	3,109	4.9	42,335
May	105,274	62,973	59.8	59,710	56.7	791	58,920	3,263	5.2	42,300
June	105,351	62,958	59.8	59,796	56.8	792	59,005	3,162	5.0	42,393
July	105,433	63,080	59.8	59,958	56.9	890	59,068	3,102	4.9	42,373
August	105,527	63,185	59.9	60,013	56.9	889	59,124	3,152	5.0	42,381

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	200,847	201,061	201,273	201,463	201,636	202,285	202,389	202,513	202,674	202,832	203,000	203,166	203,364
Civilian labor force .....	133,898	134,291	134,636	134,831	135,022	135,848	135,634	136,319	136,098	136,173	136,200	136,290	136,480
Percent of population .....	66.7	66.8	66.9	66.9	67.0	67.2	67.0	67.3	67.2	67.1	67.1	67.1	67.1
Employed .....	126,988	127,248	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804
Employment-population ratio .....	63.2	63.3	63.4	63.4	63.4	63.6	63.5	63.8	63.8	63.9	63.7	63.8	63.8
Unemployed .....	6,910	7,043	7,019	7,187	7,167	7,268	7,205	7,144	6,714	6,534	6,836	6,583	6,677
Unemployment rate .....	5.2	5.2	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9
<b>Men, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	96,335	96,447	96,556	96,654	96,742	97,264	97,320	97,387	97,474	97,559	97,649	97,733	97,838
Civilian labor force .....	71,961	72,087	72,363	72,362	72,414	73,106	72,987	73,268	73,232	73,200	73,242	73,230	73,315
Percent of population .....	74.7	74.7	74.9	74.9	74.9	75.2	75.0	75.2	75.1	75.0	75.0	74.9	74.9
Employed .....	68,368	68,304	68,647	68,589	68,707	69,164	69,232	69,478	69,627	69,929	69,567	69,749	69,791
Employment-population ratio .....	71.0	70.8	71.1	71.0	71.0	71.1	71.1	71.3	71.4	71.7	71.2	71.4	71.3
Agriculture .....	2,550	2,592	2,607	2,525	2,618	2,470	2,585	2,674	2,640	2,599	2,591	2,494	2,494
Nonagricultural industries .....	65,818	65,712	66,040	66,064	66,089	66,553	66,763	66,894	66,953	67,289	66,968	67,158	67,297
Unemployed .....	3,593	3,783	3,716	3,773	3,707	3,942	3,755	3,790	3,604	3,271	3,674	3,481	3,524
Unemployment rate .....	5.0	5.2	5.1	5.2	5.1	5.4	5.1	5.2	4.9	4.5	5.0	4.8	4.8
Not in labor force .....	24,374	24,360	24,193	24,292	24,328	24,158	24,333	24,118	24,242	24,359	24,407	24,503	24,522
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	88,650	88,733	88,840	88,971	89,040	89,446	89,556	89,604	89,680	89,766	89,829	89,888	89,982
Civilian labor force .....	68,044	68,056	68,273	68,391	68,369	68,998	68,827	69,111	69,147	69,059	69,167	69,203	69,301
Percent of population .....	76.8	76.7	76.8	76.9	76.8	77.1	76.9	77.1	77.1	76.9	77.0	77.0	77.0
Employed .....	65,165	64,978	65,299	65,349	65,367	65,813	65,818	66,066	66,243	66,418	66,266	66,414	66,491
Employment-population ratio .....	73.5	73.2	73.5	73.4	73.4	73.6	73.5	73.7	73.9	74.0	73.8	73.9	73.9
Agriculture .....	2,347	2,366	2,400	2,355	2,356	2,364	2,276	2,362	2,428	2,421	2,417	2,411	2,300
Nonagricultural industries .....	62,818	62,612	62,899	62,994	63,011	63,449	63,542	63,703	63,815	63,997	63,849	64,003	64,191
Unemployed .....	2,879	3,078	2,974	3,042	3,002	3,185	3,009	3,045	2,904	2,640	2,901	2,789	2,810
Unemployment rate .....	4.2	4.5	4.4	4.4	4.4	4.6	4.4	4.4	4.2	3.8	4.2	4.0	4.1
Not in labor force .....	20,606	20,677	20,567	20,580	20,671	20,449	20,729	20,493	20,532	20,707	20,662	20,685	20,681
<b>Women, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	104,512	104,614	104,717	104,809	104,894	105,022	105,068	105,127	105,200	105,274	105,351	105,433	105,527
Civilian labor force .....	61,937	62,204	62,273	62,469	62,608	62,742	62,647	63,051	62,866	62,973	62,958	63,060	63,165
Percent of population .....	59.3	59.5	59.5	59.6	59.7	59.7	59.6	60.0	59.8	59.8	59.8	59.8	59.9
Employed .....	58,620	58,944	58,970	59,055	59,148	59,416	59,197	59,697	59,756	59,710	59,796	59,958	60,013
Employment-population ratio .....	56.1	56.3	56.3	56.3	56.4	56.6	56.3	56.8	56.8	56.7	56.8	56.9	56.9
Agriculture .....	868	888	843	829	808	857	822	802	822	791	792	890	889
Nonagricultural industries .....	57,752	58,056	58,127	58,226	58,340	58,559	58,375	58,895	58,934	58,920	59,005	59,068	59,124
Unemployed .....	3,317	3,260	3,303	3,414	3,460	3,327	3,450	3,354	3,109	3,263	3,162	3,102	3,152
Unemployment rate .....	5.4	5.2	5.3	5.5	5.5	5.3	5.5	5.3	4.9	5.2	5.0	4.9	5.0
Not in labor force .....	42,575	42,410	42,444	42,340	42,286	42,279	42,421	42,076	42,335	42,300	42,393	42,373	42,361
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	97,146	97,226	97,290	97,366	97,457	97,520	97,571	97,638	97,685	97,767	97,834	97,919	98,000
Civilian labor force .....	58,230	58,349	58,432	58,574	58,728	58,894	58,743	59,130	58,974	59,130	59,207	59,186	59,408
Percent of population .....	59.9	60.0	60.1	60.2	60.3	60.4	60.2	60.6	60.4	60.5	60.5	60.4	60.6
Employed .....	55,498	55,644	55,681	55,753	55,871	56,165	55,955	56,359	56,392	56,481	56,585	56,685	56,819
Employment-population ratio .....	57.1	57.2	57.2	57.3	57.3	57.6	57.3	57.7	57.7	57.8	57.8	57.9	58.0
Agriculture .....	826	844	800	786	772	797	775	739	779	743	740	841	836
Nonagricultural industries .....	54,672	54,800	54,881	54,967	55,099	55,369	55,179	55,620	55,613	55,738	55,845	55,844	55,983
Unemployed .....	2,732	2,705	2,751	2,821	2,857	2,729	2,788	2,771	2,581	2,650	2,621	2,501	2,589
Unemployment rate .....	4.7	4.6	4.7	4.8	4.9	4.6	4.7	4.7	4.4	4.5	4.4	4.2	4.4
Not in labor force .....	38,916	38,877	38,858	38,792	38,729	38,626	38,828	38,508	38,712	38,636	38,628	38,733	38,592
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	15,051	15,101	15,143	15,126	15,139	15,318	15,261	15,271	15,309	15,300	15,336	15,359	15,382
Civilian labor force .....	7,624	7,886	7,931	7,866	7,925	7,956	8,065	8,078	7,977	7,984	7,826	7,901	7,771
Percent of population .....	50.7	52.2	52.4	52.0	52.3	51.9	52.8	52.9	52.1	52.2	51.0	51.4	50.5
Employed .....	6,325	6,626	6,637	6,542	6,617	6,601	6,657	6,750	6,748	6,740	6,512	6,608	6,493
Employment-population ratio .....	42.0	43.9	43.8	43.3	43.7	43.1	43.6	44.2	44.1	44.1	42.5	43.0	42.2
Agriculture .....	245	270	250	213	298	307	240	285	290	266	234	229	246
Nonagricultural industries .....	6,080	6,356	6,387	6,329	6,319	6,294	6,417	6,465	6,458	6,474	6,279	6,379	6,247
Unemployed .....	1,299	1,260	1,294	1,324	1,308	1,354	1,408	1,328	1,229	1,244	1,314	1,293	1,278
Unemployment rate .....	17.0	16.0	16.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4
Not in labor force .....	7,427	7,215	7,212	7,260	7,214	7,362	7,196	7,193	7,333	7,316	7,510	7,458	7,611

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	168,489	168,639	168,788	168,924	169,044	169,436	169,492	169,569	169,675	169,782	169,897	170,010	170,148
Civilian labor force .....	112,904	113,334	113,625	113,816	113,991	114,377	114,333	114,736	114,618	114,630	114,691	114,627	114,649
Percent of population .....	67.0	67.2	67.3	67.4	67.4	67.5	67.5	67.7	67.6	67.5	67.5	67.4	67.4
Employed .....	107,853	108,217	108,527	108,570	108,734	109,197	109,197	109,630	109,831	110,052	109,821	109,853	109,782
Employment-population ratio .....	64.0	64.2	64.3	64.3	64.3	64.4	64.4	64.7	64.7	64.8	64.6	64.6	64.5
Unemployed .....	5,051	5,117	5,098	5,246	5,257	5,226	5,136	5,106	4,786	4,578	4,870	4,774	4,867
Unemployment rate .....	4.5	4.5	4.5	4.6	4.6	4.6	4.5	4.5	4.2	4.0	4.2	4.2	4.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	58,347	58,343	58,539	58,549	58,623	59,042	58,968	59,161	59,196	59,008	59,088	59,096	59,129
Percent of population .....	77.3	77.2	77.4	77.3	77.4	77.7	77.5	77.7	77.7	77.4	77.5	77.4	77.4
Employed .....	56,143	56,042	56,294	56,276	56,356	56,653	56,692	56,923	57,057	57,112	56,981	57,030	57,018
Employment-population ratio .....	74.4	74.2	74.4	74.3	74.4	74.5	74.5	74.8	74.9	74.9	74.7	74.7	74.6
Unemployed .....	2,204	2,301	2,245	2,273	2,267	2,388	2,275	2,238	2,139	1,895	2,107	2,066	2,111
Unemployment rate .....	3.8	3.9	3.8	3.9	3.9	4.0	3.9	3.8	3.6	3.2	3.6	3.5	3.6
<b>Women, 20 years and over</b>													
Civilian labor force .....	48,162	48,314	48,380	48,558	48,686	48,631	48,619	48,832	48,662	48,874	48,924	48,756	48,927
Percent of population .....	59.4	59.5	59.6	59.8	59.9	59.8	59.8	60.0	59.8	60.0	60.1	59.8	60.0
Employed .....	46,232	46,394	46,439	46,530	46,614	46,750	46,747	46,915	46,902	47,047	47,128	47,055	47,123
Employment-population ratio .....	57.0	57.2	57.2	57.3	57.3	57.5	57.5	57.7	57.6	57.8	57.9	57.7	57.8
Unemployed .....	1,930	1,920	1,941	2,028	2,072	1,881	1,872	1,917	1,759	1,827	1,795	1,701	1,805
Unemployment rate .....	4.0	4.0	4.0	4.2	4.3	3.9	3.9	3.9	3.6	3.7	3.7	3.5	3.7
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,395	6,677	6,706	6,709	6,882	6,704	6,746	6,742	6,760	6,748	6,679	6,775	6,593
Percent of population .....	53.8	56.0	56.1	56.0	55.6	55.3	55.6	55.6	55.7	55.5	54.9	55.6	54.0
Employed .....	5,478	5,781	5,794	5,764	5,764	5,747	5,758	5,792	5,872	5,893	5,711	5,768	5,641
Employment-population ratio .....	46.1	48.5	48.5	48.1	48.0	47.4	47.5	47.7	48.4	48.5	46.9	47.3	46.2
Unemployed .....	917	896	912	945	918	957	988	951	888	855	968	1,007	951
Unemployment rate .....	14.3	13.4	13.6	14.1	13.7	14.3	14.6	14.1	13.1	12.7	14.5	14.9	14.4
Men .....	15.7	14.8	15.4	15.5	14.8	14.9	14.6	15.0	14.3	12.7	16.3	15.4	15.5
Women .....	12.9	11.9	11.6	12.6	12.6	13.6	14.7	13.1	11.9	12.7	12.6	14.3	13.2
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	23,650	23,690	23,728	23,762	23,794	23,847	23,872	23,895	23,923	23,950	23,978	24,006	24,043
Civilian labor force .....	15,297	15,184	15,276	15,290	15,306	15,372	15,408	15,439	15,365	15,434	15,398	15,510	15,804
Percent of population .....	64.7	64.1	64.4	64.3	64.3	64.5	64.5	64.6	64.2	64.4	64.2	64.6	65.7
Employed .....	13,699	13,566	13,647	13,673	13,693	13,709	13,672	13,784	13,863	13,837	13,793	14,055	14,341
Employment-population ratio .....	57.9	57.3	57.5	57.5	57.5	57.5	57.3	57.7	57.9	57.8	57.5	58.5	59.6
Unemployed .....	1,598	1,618	1,629	1,617	1,613	1,663	1,736	1,655	1,503	1,597	1,605	1,455	1,463
Unemployment rate .....	10.4	10.7	10.7	10.6	10.5	10.8	11.3	10.7	9.8	10.3	10.4	9.4	9.3
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,874	6,834	6,838	6,899	6,833	6,829	6,765	6,803	6,805	6,831	6,926	6,957	7,072
Percent of population .....	73.0	72.6	72.4	72.7	72.0	71.8	71.0	71.6	71.4	71.5	72.4	72.6	73.7
Employed .....	6,301	6,174	6,199	6,264	6,235	6,198	6,159	6,173	6,234	6,255	6,296	6,386	6,541
Employment-population ratio .....	66.9	65.6	65.6	66.0	65.7	65.2	64.7	65.0	65.4	65.5	65.8	66.6	68.1
Unemployed .....	573	660	639	635	598	632	605	629	571	575	630	572	532
Unemployment rate .....	8.3	9.7	9.3	9.2	8.8	9.2	9.0	9.3	8.4	8.4	9.1	8.2	7.5
<b>Women, 20 years and over</b>													
Civilian labor force .....	7,477	7,435	7,487	7,499	7,544	7,574	7,636	7,641	7,641	7,693	7,615	7,689	7,803
Percent of population .....	63.1	62.7	63.0	63.0	63.3	63.4	63.9	63.8	63.8	64.1	63.5	64.0	64.8
Employed .....	6,802	6,788	6,822	6,833	6,851	6,880	6,851	6,934	6,997	6,974	6,921	7,053	7,146
Employment-population ratio .....	57.4	57.2	57.4	57.4	57.5	57.6	57.3	57.9	58.4	58.1	57.7	58.7	59.4
Unemployed .....	675	647	665	666	693	694	785	706	644	719	694	636	658
Unemployment rate .....	9.0	8.7	8.9	8.9	9.2	9.2	10.3	9.2	8.4	9.4	9.1	8.3	8.4

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	946	915	951	892	929	969	1,007	996	920	910	857	864	928
Percent of population .....	39.6	38.0	39.6	37.5	38.9	40.4	42.0	41.1	38.1	37.9	35.4	35.7	38.5
Employed .....	596	604	626	576	607	631	662	676	632	608	577	616	655
Employment-population ratio .....	25.0	25.1	26.1	24.2	25.4	26.3	27.6	27.9	26.2	25.3	23.8	25.5	27.2
Unemployed .....	350	311	325	316	322	337	346	319	287	302	281	247	273
Unemployment rate .....	37.0	34.0	34.2	35.4	34.7	34.8	34.3	32.1	31.2	33.2	32.7	28.6	29.4
Men .....	38.2	37.2	36.5	41.2	38.6	42.7	37.4	41.4	37.3	32.6	41.1	32.9	33.1
Women .....	35.8	30.9	31.9	30.0	31.2	27.5	31.3	23.7	25.3	33.8	24.5	25.1	26.2
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,292	19,346	19,398	19,454	19,505	20,013	20,067	20,119	20,180	20,236	20,293	20,351	20,407
Civilian labor force .....	12,864	12,871	12,989	13,182	13,150	13,795	13,640	13,662	13,572	13,746	13,807	13,866	13,910
Percent of population .....	66.7	66.5	67.0	67.8	67.4	68.9	68.0	67.9	67.3	67.9	68.0	68.1	68.2
Employed .....	11,736	11,801	11,928	12,094	12,141	12,653	12,538	12,493	12,470	12,730	12,756	12,768	12,911
Employment-population ratio .....	60.8	61.0	61.5	62.2	62.2	63.2	62.5	62.1	61.8	62.9	62.9	62.7	63.3
Unemployed .....	1,128	1,070	1,061	1,088	1,009	1,142	1,102	1,169	1,102	1,016	1,051	1,098	999
Unemployment rate .....	8.8	8.3	8.2	8.3	7.7	8.3	8.1	8.6	8.1	7.4	7.6	7.9	7.2

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>EMPLOYED</b>													
Full-time workers .....	103,733	104,303	104,598	104,645	104,654	105,089	105,151	105,721	105,936	106,170	106,413	106,591	106,638
Men, 16 years and over .....	60,970	61,096	61,244	61,346	61,289	61,603	61,867	61,688	62,114	62,277	62,288	62,360	62,359
Men, 20 years and over .....	59,792	59,810	60,021	60,119	60,056	60,392	60,691	60,432	60,820	60,923	61,025	61,056	61,086
Women, 16 years and over .....	42,793	43,187	43,342	43,303	43,358	43,365	43,151	43,900	43,737	43,879	44,193	44,381	44,436
Women, 20 years and over .....	42,019	42,351	42,495	42,450	42,451	42,541	42,287	42,991	42,945	43,100	43,345	43,392	43,499
Both sexes, 16 to 19 years .....	1,922	2,142	2,082	2,076	2,147	2,156	2,173	2,298	2,172	2,147	2,043	2,143	2,054
Part-time workers .....	23,294	23,163	23,037	23,145	23,222	23,530	23,370	23,472	23,433	23,374	22,885	22,937	23,012
Men, 16 years and over .....	7,474	7,376	7,397	7,294	7,411	7,510	7,284	7,695	7,462	7,563	7,292	7,365	7,452
Men, 20 years and over .....	5,449	5,320	5,292	5,255	5,321	5,418	5,133	5,577	5,411	5,323	5,245	5,332	5,398
Women, 16 years and over .....	15,812	15,776	15,657	15,816	15,802	16,027	16,064	15,759	15,973	15,847	15,625	15,561	15,561
Women, 20 years and over .....	13,427	13,334	13,191	13,397	13,427	13,633	13,698	13,365	13,427	13,420	13,212	13,240	13,225
Both sexes, 16 to 19 years .....	4,418	4,509	4,554	4,493	4,474	4,479	4,540	4,531	4,595	4,631	4,428	4,365	4,388
<b>UNEMPLOYED</b>													
Looking for full-time work .....	5,479	5,644	5,664	5,800	5,754	5,809	5,706	5,736	5,329	5,274	5,515	5,309	5,311
Men, 16 years and over .....	3,084	3,287	3,216	3,240	3,170	3,238	3,088	3,140	2,948	2,791	3,186	2,928	2,987
Men, 20 years and over .....	2,636	2,895	2,761	2,816	2,762	2,871	2,780	2,782	2,642	2,453	2,680	2,571	2,562
Women, 16 years and over .....	2,463	2,389	2,489	2,587	2,608	2,495	2,526	2,537	2,378	2,508	2,382	2,335	2,377
Women, 20 years and over .....	2,192	2,108	2,218	2,305	2,313	2,199	2,219	2,289	2,112	2,176	2,124	2,103	2,140
Both sexes, 16 to 19 years .....	651	641	685	679	679	738	707	685	575	645	710	634	609
Looking for part-time work .....	1,453	1,369	1,368	1,384	1,425	1,426	1,497	1,428	1,415	1,283	1,271	1,300	1,363
Men, 16 years and over .....	604	515	552	570	548	614	588	593	654	503	531	545	585
Men, 20 years and over .....	260	198	225	227	237	277	249	269	274	185	219	212	233
Women, 16 years and over .....	839	838	818	830	902	800	916	604	753	786	766	766	748
Women, 20 years and over .....	538	555	533	513	560	523	558	477	480	497	471	431	454
Both sexes, 16 to 19 years .....	655	616	610	644	628	626	690	682	660	602	582	657	677
<b>UNEMPLOYMENT RATES<sup>1</sup></b>													
Full-time workers .....	5.0	5.1	5.1	5.3	5.2	5.2	5.1	5.1	4.8	4.7	4.9	4.7	4.7
Men, 16 years and over .....	4.8	5.1	5.0	5.0	4.9	5.0	4.8	4.8	4.5	4.3	4.9	4.5	4.6
Men, 20 years and over .....	4.2	4.6	4.4	4.5	4.4	4.5	4.4	4.4	4.2	3.9	4.2	4.0	4.0
Women, 16 years and over .....	5.4	5.2	5.4	5.6	5.7	5.4	5.5	5.5	5.2	5.4	5.1	5.0	5.1
Women, 20 years and over .....	5.0	4.7	5.0	5.2	5.2	4.9	5.0	5.1	4.7	4.8	4.7	4.6	4.7
Both sexes, 16 to 19 years .....	25.3	23.0	24.8	24.6	24.0	25.5	24.5	22.5	20.9	23.1	25.8	22.8	22.9
Part-time workers .....	5.9	5.6	5.6	5.6	5.6	5.7	6.0	5.7	5.7	5.2	5.3	5.4	5.6
Men, 16 years and over .....	7.5	6.5	6.9	7.2	6.9	7.6	7.5	7.2	8.1	6.2	6.8	6.9	7.3
Men, 20 years and over .....	4.6	3.6	4.1	4.1	4.3	4.9	4.6	4.6	4.8	3.4	4.0	3.8	4.1
Women, 16 years and over .....	5.0	5.0	5.0	5.0	5.4	4.8	5.4	4.9	4.5	4.7	4.7	4.7	4.6
Women, 20 years and over .....	3.9	4.0	3.9	3.7	4.0	3.7	3.9	3.4	3.5	3.6	3.4	3.2	3.3
Both sexes, 16 to 19 years .....	12.9	12.0	11.8	12.5	12.3	12.3	13.2	13.1	12.6	11.5	11.6	13.1	13.4

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>MARITAL STATUS</b>													
Total .....	126,988	127,248	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804
Married men, spouse present .....	42,588	42,330	42,617	42,631	42,607	42,909	42,513	42,509	42,329	42,273	42,448	42,589	42,697
Married women, spouse present .....	32,665	32,679	32,537	32,509	32,631	32,826	32,578	32,699	32,473	32,445	32,519	32,866	32,933
Women who maintain families .....	7,338	7,420	7,392	7,444	7,500	7,501	7,556	7,720	7,838	7,858	7,847	7,901	7,941
<b>OCCUPATION</b>													
Managerial and professional specialty .....	36,605	36,759	36,917	37,177	37,234	37,478	37,525	37,723	37,599	37,318	37,493	37,558	37,775
Technical, sales, and administrative support .....	37,818	37,812	37,951	37,821	37,902	38,163	38,073	38,158	38,150	38,362	38,142	38,193	38,322
Service occupations .....	17,343	17,435	17,295	17,408	17,271	17,171	17,170	17,292	17,267	17,390	17,412	17,523	17,774
Precision production, craft, and repair .....	13,660	13,681	13,587	13,508	13,574	13,902	14,140	14,200	14,301	14,380	14,364	14,282	13,972
Operators, fabricators, and laborers .....	18,031	18,069	18,235	18,259	18,310	18,317	18,144	18,234	18,415	18,647	18,597	18,515	18,473
Farming, forestry, and fishing .....	3,515	3,557	3,565	3,445	3,496	3,528	3,388	3,507	3,605	3,680	3,499	3,554	3,407
<b>CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,814	1,834	1,813	1,829	1,878	1,988	1,932	1,905	1,989	1,941	1,929	1,913	1,841
Self-employed workers .....	1,525	1,557	1,560	1,464	1,475	1,448	1,353	1,414	1,424	1,444	1,404	1,492	1,487
Unpaid family workers .....	64	91	71	68	66	62	15	59	70	50	40	53	51
Nonagricultural industries:													
Wage and salary workers .....	114,539	114,765	115,018	115,133	115,212	115,560	115,987	116,533	116,608	116,969	116,653	117,104	117,323
Private industries .....	96,274	96,673	96,886	96,863	96,946	97,176	97,843	98,539	98,572	99,162	98,554	98,766	99,069
Private households .....	973	981	992	956	934	1,002	882	869	922	967	870	910	946
Other industries .....	95,301	95,692	95,894	95,907	96,012	96,174	96,962	97,671	97,650	98,195	97,684	97,856	98,122
Government .....	18,265	18,092	18,132	18,270	18,266	18,385	18,144	17,994	18,036	17,807	18,099	18,338	18,254
Self-employed workers .....	8,896	8,811	8,967	9,023	9,109	9,445	9,124	9,292	9,159	9,106	9,126	8,887	8,923
Unpaid family workers .....	122	129	137	140	149	162	136	108	130	148	128	131	129
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,339	4,302	4,286	3,983	4,338	4,426	4,262	4,153	4,402	4,019	4,025	4,017	3,992
Slack work or business conditions .....	2,437	2,398	2,258	2,107	2,353	2,423	2,378	2,344	2,491	2,300	2,375	2,211	2,122
Could only find part-time work .....	1,596	1,617	1,683	1,559	1,653	1,552	1,550	1,518	1,629	1,391	1,347	1,522	1,519
Part time for noneconomic reasons .....	18,184	17,823	17,754	17,957	17,868	18,340	18,070	18,120	18,176	18,336	18,322	18,015	18,093
Nonagricultural industries:													
Part time for economic reasons .....	4,182	4,130	4,118	3,815	4,162	4,163	4,098	3,937	4,235	3,806	3,782	3,872	3,854
Slack work or business conditions .....	2,310	2,284	2,147	2,001	2,214	2,310	2,277	2,210	2,374	2,159	2,220	2,102	2,037
Could only find part-time work .....	1,588	1,580	1,647	1,543	1,622	1,512	1,523	1,475	1,603	1,347	1,298	1,509	1,485
Part time for noneconomic reasons .....	17,555	17,204	17,123	17,313	17,237	17,737	17,452	17,565	17,661	17,780	17,663	17,418	17,519

<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 controls 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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total, 16 years and over</b> .....	126,988	127,248	127,617	127,644	127,855	128,580	128,430	129,175	129,384	129,639	129,364	129,708	129,804
16 to 24 years .....	18,368	18,766	18,799	18,722	18,771	18,900	19,024	19,103	19,100	19,258	18,866	19,025	18,775
16 to 19 years .....	6,325	6,626	6,637	6,542	6,617	6,601	6,657	6,750	6,748	6,740	6,512	6,608	6,493
16 to 17 years .....	2,589	2,708	2,736	2,702	2,672	2,633	2,674	2,652	2,716	2,596	2,620	2,609	2,536
18 to 19 years .....	3,716	3,946	3,898	3,835	3,919	3,946	3,976	4,087	4,029	4,150	3,907	3,971	3,944
20 to 24 years .....	12,043	12,140	12,162	12,180	12,154	12,299	12,367	12,353	12,352	12,518	12,354	12,417	12,282
25 years and over .....	108,755	108,445	108,811	108,894	109,087	109,651	109,429	110,075	110,254	110,294	110,582	110,647	111,082
25 to 54 years .....	93,165	93,074	93,285	93,387	93,455	93,852	93,665	93,983	94,248	94,233	94,650	94,766	94,997
55 years and over .....	15,526	15,488	15,535	15,587	15,657	15,786	15,787	16,076	15,986	16,107	15,875	15,866	16,037
<b>Men, 16 years and over</b> .....	68,368	68,304	68,647	68,589	68,707	69,164	69,232	69,478	69,627	69,929	69,567	69,749	69,791
16 to 24 years .....	9,592	9,716	9,792	9,660	9,770	9,913	9,977	9,930	9,973	10,208	9,888	9,924	9,849
16 to 19 years .....	3,203	3,326	3,348	3,240	3,340	3,351	3,414	3,412	3,384	3,511	3,301	3,335	3,300
16 to 17 years .....	1,247	1,339	1,375	1,324	1,323	1,310	1,386	1,351	1,356	1,338	1,333	1,310	1,326
18 to 19 years .....	1,926	1,995	1,983	1,915	1,992	2,033	2,066	2,066	2,022	2,169	1,984	1,991	1,945
20 to 24 years .....	6,389	6,390	6,444	6,420	6,430	6,562	6,563	6,518	6,589	6,697	6,587	6,589	6,549
25 years and over .....	58,908	58,589	58,854	58,909	58,927	59,271	59,271	59,505	59,810	59,616	59,690	59,844	60,031
25 to 54 years .....	50,100	49,971	50,144	50,229	50,268	50,465	50,477	50,552	50,671	50,683	50,814	50,897	50,953
55 years and over .....	8,719	8,660	8,717	8,722	8,717	8,793	8,779	8,949	8,941	8,987	8,855	8,929	9,014
<b>Women, 16 years and over</b> .....	58,620	58,944	58,970	59,055	59,148	59,416	59,197	59,697	59,756	59,710	59,796	59,958	60,013
16 to 24 years .....	8,776	9,050	9,007	9,062	9,001	8,987	9,047	9,173	9,128	9,050	8,978	9,100	8,926
16 to 19 years .....	3,122	3,300	3,289	3,302	3,277	3,250	3,243	3,338	3,364	3,229	3,211	3,273	3,193
16 to 17 years .....	1,342	1,369	1,361	1,378	1,349	1,324	1,288	1,301	1,359	1,258	1,288	1,298	1,210
18 to 19 years .....	1,790	1,951	1,915	1,920	1,927	1,913	1,945	2,021	2,007	1,981	1,924	1,980	2,000
20 to 24 years .....	5,654	5,750	5,718	5,760	5,724	5,737	5,804	5,835	5,764	5,821	5,767	5,828	5,733
25 years and over .....	49,847	49,856	49,957	49,985	50,160	50,424	50,158	50,570	50,644	50,678	50,892	50,803	51,050
25 to 54 years .....	43,065	43,103	43,141	43,158	43,187	43,387	43,188	43,432	43,578	43,550	43,836	43,868	44,044
55 years and over .....	6,807	6,828	6,818	6,865	6,940	6,992	7,008	7,127	7,045	7,120	7,020	6,937	7,024

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total, 16 years and over</b> .....	6,910	7,043	7,019	7,187	7,167	7,268	7,205	7,144	6,714	6,534	6,836	6,583	6,677
16 to 24 years .....	2,438	2,442	2,480	2,531	2,526	2,625	2,583	2,554	2,449	2,357	2,442	2,328	2,390
16 to 19 years .....	1,299	1,260	1,294	1,324	1,308	1,354	1,408	1,328	1,229	1,244	1,314	1,293	1,278
16 to 17 years .....	604	579	599	555	641	567	655	637	618	585	548	555	544
18 to 19 years .....	692	680	706	788	677	787	712	697	617	657	762	748	732
20 to 24 years .....	1,139	1,182	1,186	1,207	1,218	1,270	1,175	1,226	1,220	1,114	1,128	1,036	1,112
25 years and over .....	4,511	4,612	4,538	4,630	4,696	4,638	4,591	4,253	4,209	4,382	4,224	4,318	
25 to 54 years .....	3,988	4,080	4,053	4,131	4,147	4,137	4,142	4,018	3,750	3,733	3,857	3,777	3,786
55 years and over .....	505	530	507	493	542	501	485	550	487	481	515	489	500
<b>Men, 16 years and over</b> .....	3,593	3,783	3,716	3,773	3,707	3,942	3,755	3,790	3,604	3,271	3,674	3,481	3,524
16 to 24 years .....	1,303	1,340	1,370	1,378	1,386	1,468	1,361	1,384	1,331	1,175	1,359	1,272	1,340
16 to 19 years .....	714	705	742	731	705	757	746	745	701	630	774	692	714
16 to 17 years .....	342	319	336	309	343	336	338	368	350	290	330	299	282
18 to 19 years .....	370	385	409	448	364	418	369	386	362	339	440	386	429
20 to 24 years .....	589	635	628	647	661	711	615	640	631	544	585	580	626
25 years and over .....	2,336	2,445	2,350	2,390	2,337	2,441	2,419	2,390	2,267	2,113	2,311	2,176	2,218
25 to 54 years .....	2,030	2,168	2,079	2,098	2,032	2,174	2,117	2,058	2,003	1,846	2,018	1,920	1,917
55 years and over .....	292	291	268	283	303	293	299	323	272	263	287	272	279
<b>Women, 16 years and over</b> .....	3,317	3,260	3,303	3,414	3,460	3,327	3,450	3,354	3,109	3,263	3,162	3,102	3,152
16 to 24 years .....	1,135	1,102	1,110	1,153	1,160	1,157	1,222	1,170	1,118	1,183	1,083	1,057	1,050
16 to 19 years .....	585	555	552	593	603	598	662	583	528	614	540	601	564
16 to 17 years .....	262	260	263	246	298	231	317	269	268	295	217	256	262
18 to 19 years .....	322	295	297	340	313	369	343	311	255	318	322	361	303
20 to 24 years .....	550	547	558	560	557	559	560	587	589	569	542	456	486
25 years and over .....	2,175	2,167	2,188	2,240	2,359	2,148	2,219	2,202	1,986	2,096	2,071	2,048	2,100
25 to 54 years .....	1,958	1,912	1,974	2,033	2,115	1,963	2,025	1,960	1,747	1,887	1,839	1,856	1,869
55 years and over .....	213	239	239	210	239	208	186	227	214	218	228	218	221

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**

Age and sex	1996					1997							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over .....	5.2	5.2	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9
16 to 24 years .....	11.7	11.5	11.7	11.9	11.9	12.2	12.0	11.8	11.4	10.9	11.5	10.9	11.3
16 to 19 years .....	17.0	16.0	16.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4
16 to 17 years .....	18.9	17.6	18.0	17.0	19.3	17.7	19.7	19.4	18.5	18.4	17.3	17.5	17.7
18 to 19 years .....	15.7	14.7	15.3	17.0	14.7	16.6	15.2	14.6	13.3	13.7	16.3	15.8	15.6
20 to 24 years .....	8.6	8.9	8.9	9.0	9.1	9.4	8.7	9.0	9.0	8.2	8.4	7.7	8.3
25 years and over .....	4.0	4.1	4.0	4.1	4.1	4.0	4.1	4.0	3.7	3.7	3.8	3.7	3.7
25 to 54 years .....	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.1	3.8	3.8	3.9	3.8	3.8
55 years and over .....	3.2	3.3	3.2	3.1	3.3	3.1	3.0	3.3	3.0	2.9	3.1	3.0	3.0
Men, 16 years and over .....	5.0	5.2	5.1	5.2	5.1	5.4	5.1	5.2	4.9	4.5	5.0	4.8	4.8
16 to 24 years .....	12.0	12.1	12.3	12.5	12.3	12.9	12.0	12.2	11.8	10.3	12.1	11.4	12.0
16 to 19 years .....	18.2	17.5	18.1	18.4	17.4	18.4	17.9	17.9	17.2	15.2	19.0	17.2	17.8
16 to 17 years .....	21.5	19.2	19.6	18.9	20.6	20.4	19.6	21.4	20.5	17.8	19.9	18.6	17.5
18 to 19 years .....	16.1	16.2	17.1	19.0	15.4	17.1	15.4	15.7	15.2	13.5	18.2	16.2	18.1
20 to 24 years .....	8.4	9.0	8.9	9.2	9.3	9.8	8.6	8.9	8.7	7.5	8.2	8.1	8.7
25 years and over .....	3.8	4.0	3.8	3.9	3.8	4.0	3.9	3.9	3.7	3.4	3.7	3.5	3.6
25 to 54 years .....	3.9	4.2	4.0	4.0	3.9	4.1	4.0	3.9	3.8	3.5	3.8	3.6	3.6
55 years and over .....	3.2	3.3	3.0	3.1	3.4	3.2	3.3	3.5	3.0	2.8	3.1	3.0	3.0
Women, 16 years and over .....	5.4	5.2	5.3	5.5	5.5	5.3	5.5	5.3	4.9	5.2	5.0	4.9	5.0
16 to 24 years .....	11.5	10.9	11.0	11.3	11.4	11.4	11.9	11.3	10.9	11.6	10.8	10.4	10.5
16 to 19 years .....	15.8	14.4	14.4	15.2	15.5	15.5	16.9	14.9	13.6	16.0	14.4	15.5	15.0
16 to 17 years .....	16.3	16.0	16.2	15.1	18.1	14.9	19.7	17.1	16.5	19.0	14.4	16.4	17.8
18 to 19 years .....	15.2	13.1	13.4	15.0	14.0	16.2	15.0	13.3	11.3	13.8	14.3	15.4	13.1
20 to 24 years .....	8.9	8.7	8.9	8.9	8.9	8.9	8.8	9.1	8.3	8.9	8.6	7.3	7.8
25 years and over .....	4.2	4.2	4.2	4.3	4.5	4.1	4.2	4.2	3.8	4.0	3.9	3.9	4.0
25 to 54 years .....	4.3	4.2	4.4	4.5	4.7	4.3	4.5	4.3	3.9	4.2	4.0	4.1	4.1
55 years and over .....	3.0	3.4	3.4	3.0	3.3	2.9	2.6	3.1	3.0	3.0	3.2	3.0	3.0

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Category	1996					1997							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>CHARACTERISTIC</b>													
Total .....	5.2	5.2	5.2	5.3	5.3	5.4	5.3	5.2	4.9	4.8	5.0	4.8	4.9
Men, 20 years and over .....	4.2	4.5	4.4	4.4	4.4	4.6	4.4	4.4	4.2	3.8	4.2	4.0	4.1
Women, 20 years and over .....	4.7	4.6	4.7	4.8	4.9	4.6	4.7	4.7	4.4	4.5	4.4	4.2	4.4
Both sexes, 16 to 19 years .....	17.0	16.0	16.3	16.8	16.5	17.0	17.5	16.4	15.4	15.6	16.8	16.4	16.4
White .....	4.5	4.5	4.5	4.6	4.6	4.6	4.5	4.5	4.2	4.0	4.2	4.2	4.2
Black and other .....	8.9	9.2	9.3	9.1	9.2	9.4	9.7	9.5	9.0	9.3	9.1	8.2	8.2
Black .....	10.4	10.7	10.7	10.6	10.5	10.8	11.3	10.7	9.8	10.3	10.4	9.4	9.3
Hispanic origin .....	8.8	8.3	8.2	8.3	7.7	8.3	8.1	8.6	8.1	7.4	7.6	7.9	7.2
Married men, spouse present .....	2.9	3.0	3.0	3.0	3.0	2.8	2.8	2.8	2.7	2.6	2.7	2.6	2.6
Married women, spouse present .....	3.4	3.4	3.5	3.6	3.7	3.3	3.4	3.2	3.1	3.2	3.2	3.1	3.0
Women who maintain families .....	8.5	8.3	8.5	8.8	8.4	9.1	9.0	9.1	7.5	7.6	8.0	7.4	8.1
<b>OCCUPATION<sup>1</sup></b>													
Managerial and professional specialty .....	2.2	2.3	2.2	2.3	2.4	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0
Technical, sales, and administrative support .....	4.4	4.5	4.5	4.5	4.6	4.4	4.3	4.3	4.2	3.8	4.3	4.1	4.2
Precision production, craft, and repair .....	5.3	5.4	5.5	5.7	5.4	5.3	4.7	4.9	4.8	4.6	4.7	4.9	4.7
Operators, fabricators, and laborers .....	8.0	7.5	7.7	7.7	7.6	7.9	8.1	8.1	7.3	7.1	7.4	7.4	7.7
Farming, forestry, and fishing .....	6.4	7.1	7.0	7.7	7.7	7.5	7.5	7.4	6.6	6.2	8.1	6.0	7.4
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.4	5.3	5.3	5.5	5.4	5.4	5.3	5.2	5.0	5.0	5.0	4.9	5.0
Goods-producing industries .....	5.7	5.6	5.8	6.1	5.9	6.0	5.6	5.5	5.4	5.2	5.2	5.4	5.4
Mining .....	4.5	5.1	5.8	4.9	7.6	6.0	4.2	4.0	2.0	3.0	2.3	3.8	5.3
Construction .....	9.1	9.3	9.6	10.3	9.4	10.1	9.0	9.6	8.7	8.4	8.5	8.7	9.3
Manufacturing .....	4.7	4.4	4.7	4.7	4.8	4.6	4.5	4.3	4.4	4.2	4.1	4.3	4.1
Durable goods .....	4.0	4.2	4.4	4.5	4.7	4.4	4.0	3.6	3.6	3.5	3.5	3.4	3.6
Nondurable goods .....	5.8	4.7	5.1	5.1	5.0	4.8	5.3	5.2	5.8	5.3	5.0	5.5	4.9
Service-producing industries .....	5.2	5.2	5.1	5.2	5.2	5.2	5.2	5.1	4.9	4.9	5.0	4.7	4.9
Transportation and public utilities .....	4.1	4.1	4.4	3.5	4.0	4.1	4.3	4.1	2.8	3.6	2.9	3.4	3.9
Wholesale and retail trade .....	6.3	6.2	6.2	6.3	6.2	6.4	6.5	6.3	6.2	6.1	6.5	6.0	6.2
Finance, insurance, and real estate .....	2.5	3.0	2.9	2.9	3.1	3.5	3.0	3.2	3.4	3.2	2.5	3.2	3.0
Services .....	5.2	5.3	5.0	5.3	5.2	4.9	5.0	4.8	4.6	4.6	4.8	4.3	4.5
Government workers .....	2.8	3.0	2.9	2.8	3.0	2.9	2.9	2.8	2.4	2.4	2.9	2.8	2.6
Agricultural wage and salary workers .....	7.6	10.8	10.0	10.9	10.3	8.6	8.8	9.5	9.6	7.1	10.6	7.5	9.5

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers and persons who completed temporary jobs .....	3,095	3,236	3,171	3,261	3,221	3,245	3,163	3,187	2,979	2,902	3,145	2,903	3,064
On temporary layoff .....	931	989	957	994	987	953	944	1,021	976	871	925	877	865
Not on temporary layoff .....	2,164	2,247	2,214	2,267	2,234	2,293	2,218	2,167	2,003	2,031	2,220	2,026	2,199
Job leavers .....	775	800	797	825	845	890	787	784	754	801	829	822	915
Reentrants .....	2,467	2,441	2,489	2,523	2,556	2,505	2,648	2,535	2,420	2,306	2,359	2,244	2,144
New entrants .....	552	559	577	586	626	600	647	647	577	574	481	553	544
<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 .....	44.9	46.0	45.1	45.3	44.4	44.8	43.7	44.6	44.3	44.1	46.2	44.5	46.0
On temporary layoff .....	13.5	14.1	13.6	13.8	13.6	13.2	13.0	14.3	14.5	13.2	13.8	13.4	13.0
Not on temporary layoff .....	31.4	31.9	31.5	31.5	30.8	31.7	30.6	30.3	29.8	30.9	32.6	31.1	33.0
Job leavers .....	11.2	11.4	11.3	11.5	11.7	12.3	10.9	11.0	11.2	12.2	12.2	12.6	13.7
Reentrants .....	35.8	34.7	35.4	35.1	35.3	34.6	36.8	35.4	36.0	35.0	34.6	34.4	32.2
New entrants .....	8.0	7.9	8.2	8.1	8.6	8.3	8.9	9.0	8.6	8.7	7.1	8.5	8.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers and persons who completed temporary jobs .....	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.3	2.1	2.2
Job leavers .....	.6	.6	.6	.6	.6	.7	.6	.6	.6	.6	.6	.6	.7
Reentrants .....	1.8	1.8	1.8	1.9	1.9	1.8	2.0	1.9	1.8	1.7	1.7	1.6	1.6
New entrants .....	.4	.4	.4	.4	.5	.4	.5	.5	.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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>NUMBER OF UNEMPLOYED</b>													
Less than 5 weeks .....	2,534	2,522	2,556	2,819	2,671	2,801	2,591	2,650	2,354	2,523	2,538	2,352	2,598
5 to 14 weeks .....	2,199	2,245	2,265	2,252	2,357	2,223	2,382	2,380	2,156	2,022	2,211	2,071	2,134
15 weeks and over .....	2,273	2,277	2,294	2,184	2,179	2,155	2,163	2,064	2,092	2,071	2,063	2,157	2,012
15 to 26 weeks .....	1,003	1,040	1,062	1,018	976	943	1,025	1,001	1,058	1,078	1,045	1,082	931
27 weeks and over .....	1,270	1,237	1,232	1,166	1,203	1,212	1,138	1,063	1,034	993	1,018	1,074	1,082
Average (mean) duration, in weeks .....	17.2	16.9	16.7	16.0	15.8	16.0	16.0	15.3	15.2	15.1	15.1	16.6	15.9
Median duration, in weeks .....	8.5	8.6	8.3	7.7	7.8	7.7	8.4	7.9	8.3	7.7	7.7	8.5	7.8
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	36.2	35.8	35.9	38.9	37.1	39.0	36.3	37.4	35.7	38.1	37.3	35.7	38.5
5 to 14 weeks .....	31.4	31.9	31.8	31.0	32.7	31.0	33.4	33.6	32.7	30.6	32.5	31.5	31.6
15 weeks and over .....	32.4	32.3	32.2	30.1	30.2	30.0	30.3	29.1	31.7	31.3	30.3	32.8	29.8
15 to 26 weeks .....	14.3	14.8	14.9	14.0	13.5	13.1	14.4	14.1	16.0	16.3	15.3	16.5	13.8
27 weeks and over .....	18.1	17.6	17.3	16.1	16.7	16.9	15.9	15.0	15.7	15.0	14.9	16.3	16.0

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	August 1997									
	Civilian noninsti- tutional 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 .....	203,364	137,460	67.6	130,865	64.4	3,661	127,205	6,594	4.8	65,904
16 to 19 years .....	15,382	8,765	57.0	7,554	49.1	348	7,205	1,212	13.8	6,617
16 to 17 years .....	7,912	3,638	46.0	3,102	39.2	159	2,943	536	14.7	4,273
18 to 19 years .....	7,471	5,127	68.6	4,451	59.6	189	4,262	676	13.2	2,344
20 to 24 years .....	17,427	13,761	79.0	12,654	72.6	311	12,343	1,108	8.0	3,666
25 to 54 years .....	116,940	98,518	84.2	94,777	81.0	2,197	92,580	3,741	3.8	18,423
25 to 34 years .....	39,425	33,276	84.4	31,713	80.4	680	31,032	1,563	4.7	6,150
25 to 29 years .....	18,841	16,047	85.2	15,200	80.7	301	14,898	846	5.3	2,795
30 to 34 years .....	20,584	17,229	83.7	16,512	80.2	379	16,133	717	4.2	3,355
35 to 44 years .....	44,025	37,668	85.6	36,272	82.4	914	35,358	1,396	3.7	6,357
35 to 39 years .....	22,600	19,245	85.2	18,519	81.9	503	18,016	727	3.8	3,355
40 to 44 years .....	21,425	18,423	86.0	17,753	82.9	411	17,342	669	3.6	3,002
45 to 54 years .....	33,490	27,574	82.3	26,792	80.0	602	26,190	782	2.8	5,916
45 to 49 years .....	18,441	15,555	84.4	15,144	82.1	349	14,794	412	2.6	2,886
50 to 54 years .....	15,049	12,019	79.9	11,648	77.4	253	11,395	370	3.1	3,031
55 to 64 years .....	21,587	12,686	58.8	12,315	57.0	472	11,843	371	2.9	8,901
55 to 59 years .....	11,663	8,120	69.6	7,892	67.7	254	7,639	227	2.8	3,543
60 to 64 years .....	9,924	4,566	46.0	4,423	44.6	218	4,205	143	3.1	5,358
65 years and over .....	32,028	3,730	11.6	3,567	11.1	333	3,233	163	4.4	28,298
65 to 69 years .....	9,577	2,113	22.1	2,016	21.0	157	1,859	98	4.6	7,464
70 to 74 years .....	8,521	988	11.6	945	11.1	100	845	44	4.4	7,532
75 years and over .....	13,929	628	4.5	606	4.4	77	529	22	3.5	13,301
<b>Men</b>										
16 years and over .....	97,838	74,149	75.8	70,890	72.5	2,697	68,193	3,259	4.4	23,688
16 to 19 years .....	7,856	4,578	58.3	3,890	49.5	272	3,617	888	15.0	3,278
16 to 17 years .....	4,096	1,921	46.9	1,636	39.9	129	1,507	285	14.8	2,175
18 to 19 years .....	3,760	2,657	70.7	2,254	59.9	143	2,110	403	15.2	1,103
20 to 24 years .....	8,692	7,421	85.4	6,840	78.7	249	6,591	581	7.8	1,271
25 to 54 years .....	57,477	52,945	92.1	51,231	89.1	1,586	49,645	1,714	3.2	4,532
25 to 34 years .....	19,377	18,126	93.5	17,417	89.9	512	16,905	710	3.9	1,251
25 to 29 years .....	9,241	8,837	95.5	8,226	89.0	226	8,000	411	4.8	604
30 to 34 years .....	10,136	9,489	93.6	9,191	90.7	286	8,905	299	3.1	647
35 to 44 years .....	21,773	20,259	93.0	19,640	90.2	645	18,995	619	3.1	1,514
35 to 39 years .....	11,196	10,492	93.7	10,153	90.7	341	9,812	338	3.2	705
40 to 44 years .....	10,577	9,767	92.3	9,487	89.7	304	9,182	281	2.9	809
45 to 54 years .....	16,327	14,560	89.2	14,175	86.8	429	13,745	385	2.6	1,767
45 to 49 years .....	9,021	8,172	90.6	7,954	88.2	252	7,702	218	2.7	849
50 to 54 years .....	7,306	6,388	87.4	6,221	85.1	177	6,043	168	2.6	918
55 to 64 years .....	10,344	6,991	67.6	6,798	65.7	332	6,466	193	2.8	3,352
55 to 59 years .....	5,608	4,426	78.9	4,308	76.8	172	4,137	118	2.7	1,183
60 to 64 years .....	4,735	2,565	54.2	2,490	52.6	161	2,330	75	2.9	2,170
65 years and over .....	13,469	2,214	16.4	2,131	15.8	258	1,874	82	3.7	11,255
65 to 69 years .....	4,363	1,213	27.8	1,168	26.8	118	1,050	45	3.7	3,150
70 to 74 years .....	3,741	601	16.1	577	15.4	81	496	24	4.0	3,140
75 years and over .....	5,364	399	7.4	386	7.2	59	327	13	3.2	4,965
<b>Women</b>										
16 years and over .....	105,527	63,311	60.0	59,976	56.8	964	59,011	3,335	5.3	42,216
16 to 19 years .....	7,527	4,188	55.6	3,664	48.7	76	3,588	524	12.5	3,339
16 to 17 years .....	3,816	1,717	45.0	1,466	38.4	30	1,438	251	14.6	2,098
18 to 19 years .....	3,711	2,471	66.6	2,198	59.2	46	2,152	273	11.0	1,241
20 to 24 years .....	8,735	6,340	72.6	5,814	66.6	62	5,752	526	8.3	2,395
25 to 54 years .....	59,463	45,572	76.6	43,545	73.2	611	42,935	2,027	4.4	13,891
25 to 34 years .....	20,048	15,149	75.6	14,296	71.3	169	14,127	853	5.6	4,899
25 to 29 years .....	9,600	7,410	77.2	6,974	72.6	75	6,899	435	5.9	2,190
30 to 34 years .....	10,448	7,739	74.1	7,322	70.1	94	7,228	418	5.4	2,708
35 to 44 years .....	22,252	17,409	78.2	16,632	74.7	269	16,363	777	4.5	4,843
35 to 39 years .....	11,404	8,754	76.8	8,366	73.4	162	8,204	388	4.4	2,850
40 to 44 years .....	10,848	8,655	79.8	8,267	76.2	107	8,159	389	4.5	2,193
45 to 54 years .....	17,163	13,014	75.8	12,617	73.5	173	12,444	397	3.0	4,150
45 to 49 years .....	9,420	7,383	78.4	7,189	76.3	97	7,092	194	2.6	2,037
50 to 54 years .....	7,743	5,630	72.7	5,428	70.1	76	5,352	203	3.6	2,113
55 to 64 years .....	11,243	5,694	50.6	5,517	49.1	140	5,377	178	3.1	5,549
55 to 59 years .....	6,055	3,694	61.0	3,584	59.2	82	3,502	110	3.0	2,961
60 to 64 years .....	5,188	2,000	38.6	1,932	37.2	57	1,875	68	3.4	3,188
65 years and over .....	18,559	1,516	8.2	1,435	7.7	78	1,360	81	5.3	17,042
65 to 69 years .....	5,214	900	17.3	847	16.3	39	808	52	5.8	4,314
70 to 74 years .....	4,779	387	8.1	368	7.7	19	349	19	5.0	4,392
75 years and over .....	8,565	229	2.7	220	2.6	18	202	9	4.0	8,336

**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	August 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 .....	170,148	115,365	67.8	110,654	65.0	3,426	107,228	4,711	4.1	54,783
16 to 19 years .....	12,207	7,382	60.5	6,538	53.6	332	6,206	843	11.4	4,825
16 to 17 years .....	6,220	3,072	49.4	2,694	43.3	150	2,544	378	12.3	3,149
18 to 19 years .....	5,986	4,310	72.0	3,844	64.2	181	3,663	466	10.8	1,676
20 to 24 years .....	13,991	11,358	81.2	10,584	75.6	292	10,292	775	6.8	2,632
25 to 54 years .....	96,882	82,206	84.9	79,518	82.1	2,028	77,491	2,687	3.3	14,676
25 to 34 years .....	32,003	27,196	85.0	26,162	81.7	649	25,513	1,034	3.8	4,807
25 to 29 years .....	15,224	13,122	86.2	12,566	82.5	288	12,278	556	4.2	2,102
30 to 34 years .....	16,778	14,073	83.9	13,596	81.0	361	13,235	477	3.4	2,705
35 to 44 years .....	36,364	31,335	86.2	30,299	83.3	829	29,469	1,037	3.3	5,028
35 to 39 years .....	18,588	15,924	85.7	15,400	82.8	456	14,943	524	3.3	2,664
40 to 44 years .....	17,775	15,411	86.7	14,899	83.8	373	14,526	512	3.3	2,364
45 to 54 years .....	28,515	23,675	83.0	23,058	80.9	549	22,509	617	2.6	4,841
45 to 49 years .....	15,551	13,210	84.9	12,896	82.9	319	12,577	313	2.4	2,341
50 to 54 years .....	12,965	10,465	80.7	10,161	78.4	230	9,931	304	2.9	2,500
55 to 64 years .....	18,545	11,029	59.5	10,755	58.0	450	10,304	274	2.5	7,518
55 to 59 years .....	9,998	7,034	70.4	6,864	68.6	237	6,627	171	2.4	2,964
60 to 64 years .....	8,547	3,995	46.7	3,891	45.5	214	3,677	104	2.6	4,552
65 years and over .....	28,524	3,390	11.9	3,259	11.4	325	2,935	131	3.9	25,133
65 to 69 years .....	8,337	1,906	22.9	1,826	21.9	152	1,675	80	4.2	6,431
70 to 74 years .....	7,575	912	12.0	883	11.7	99	784	29	3.2	6,663
75 years and over .....	12,611	572	4.5	550	4.4	74	476	22	3.8	12,039
<b>Men</b>										
16 years and over .....	82,884	63,180	76.4	60,822	73.6	2,495	58,327	2,358	3.7	19,483
16 to 19 years .....	6,272	3,874	61.8	3,405	54.3	258	3,147	469	12.1	2,398
16 to 17 years .....	3,212	1,619	50.4	1,420	44.2	122	1,298	199	12.3	1,593
18 to 19 years .....	3,060	2,254	73.7	1,985	64.9	135	1,849	270	12.0	805
20 to 24 years .....	7,091	6,241	88.0	5,836	82.3	233	5,603	405	6.5	850
25 to 54 years .....	48,277	44,925	93.1	43,850	90.4	1,437	42,213	1,275	2.8	3,352
25 to 34 years .....	16,000	15,128	94.5	14,831	91.4	487	14,145	496	3.3	873
25 to 29 years .....	7,610	7,192	94.5	6,897	90.8	216	6,681	296	4.1	417
30 to 34 years .....	8,391	7,936	94.6	7,735	92.2	271	7,464	201	2.5	455
35 to 44 years .....	18,183	17,097	94.0	16,824	91.4	589	16,055	473	2.8	1,086
35 to 39 years .....	9,306	8,806	94.6	8,553	91.9	297	8,256	253	2.9	500
40 to 44 years .....	8,877	8,291	93.4	8,071	90.9	272	7,799	221	2.7	586
45 to 54 years .....	14,094	12,700	90.1	12,395	87.9	381	12,014	305	2.4	1,394
45 to 49 years .....	7,719	7,060	91.5	6,893	89.3	224	6,670	167	2.4	658
50 to 54 years .....	6,375	5,640	88.5	5,502	86.3	158	5,344	138	2.4	736
55 to 64 years .....	8,947	6,113	68.3	5,975	66.8	318	5,657	138	2.3	2,834
55 to 59 years .....	4,858	3,860	79.5	3,775	77.7	162	3,613	85	2.2	998
60 to 64 years .....	4,089	2,253	55.1	2,200	53.8	156	2,044	53	2.3	1,838
65 years and over .....	12,077	2,028	16.8	1,957	18.2	250	1,707	71	3.5	10,049
65 to 69 years .....	3,858	1,099	28.5	1,057	27.4	113	944	42	3.9	2,759
70 to 74 years .....	3,344	585	16.9	548	16.4	81	488	17	2.9	2,779
75 years and over .....	4,876	364	7.5	352	7.2	56	295	12	3.4	4,511
<b>Women</b>										
16 years and over .....	87,484	52,185	59.7	49,832	57.0	931	48,901	2,352	4.5	35,300
16 to 19 years .....	5,934	3,508	59.1	3,134	52.8	74	3,060	374	10.7	2,426
16 to 17 years .....	3,008	1,452	48.3	1,274	42.4	28	1,246	178	12.3	1,556
18 to 19 years .....	2,926	2,056	70.2	1,860	63.5	46	1,814	196	9.5	871
20 to 24 years .....	6,900	5,118	74.2	4,748	68.8	59	4,689	370	7.2	1,782
25 to 54 years .....	48,605	37,281	76.7	35,868	73.8	591	35,278	1,412	3.8	11,324
25 to 34 years .....	16,002	12,068	75.4	11,531	72.1	183	11,368	537	4.5	3,935
25 to 29 years .....	7,615	5,930	77.9	5,669	74.4	72	5,597	281	4.4	1,685
30 to 34 years .....	8,387	6,138	73.2	5,862	69.9	90	5,771	278	4.5	2,249
35 to 44 years .....	18,181	14,238	78.3	13,675	75.2	260	13,414	563	4.0	3,943
35 to 39 years .....	9,283	7,118	76.7	6,847	73.8	159	6,687	272	3.8	2,184
40 to 44 years .....	8,898	7,120	80.0	6,828	76.7	101	6,727	292	4.1	1,779
45 to 54 years .....	14,421	10,975	76.1	10,863	73.9	168	10,495	312	2.8	3,447
45 to 49 years .....	7,832	6,149	78.5	6,003	78.6	96	5,908	146	2.4	1,683
50 to 54 years .....	6,589	4,825	73.2	4,660	70.7	72	4,587	166	3.4	1,784
55 to 64 years .....	9,598	4,916	51.2	4,779	49.8	132	4,647	136	2.8	4,682
55 to 59 years .....	5,140	3,174	61.7	3,088	60.1	75	3,014	88	2.7	1,966
60 to 64 years .....	4,458	1,742	39.1	1,691	37.9	58	1,633	51	2.9	2,716
65 years and over .....	16,447	1,382	8.3	1,303	7.9	75	1,228	60	4.4	15,084
65 to 69 years .....	4,480	807	18.0	770	17.2	39	731	37	4.8	3,672
70 to 74 years .....	4,231	347	8.2	335	7.9	18	316	13	3.7	3,884
75 years and over .....	7,736	208	2.7	198	2.6	18	181	9	4.5	7,528

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	August 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 .....	24,043	15,953	66.4	14,409	59.9	130	14,280	1,544	9.7	8,089
16 to 19 years .....	2,410	1,083	44.9	774	32.1	1	773	309	28.5	1,327
16 to 17 years .....	1,280	451	35.3	318	24.8	-	318	134	29.6	829
18 to 19 years .....	1,130	632	55.9	456	40.4	1	455	175	27.6	499
20 to 24 years .....	2,518	1,783	70.8	1,514	60.1	-	1,515	269	15.1	735
25 to 54 years .....	14,286	11,718	82.0	10,849	75.9	119	10,729	869	7.4	2,567
25 to 34 years .....	5,277	4,431	84.0	3,978	75.4	20	3,957	454	10.2	846
25 to 29 years .....	2,558	2,129	83.2	1,878	73.4	4	1,873	252	11.8	429
30 to 34 years .....	2,719	2,302	84.7	2,100	77.2	16	2,084	202	8.8	417
35 to 44 years .....	5,420	4,496	82.9	4,196	77.4	62	4,134	300	6.7	925
35 to 39 years .....	2,826	2,362	83.6	2,196	77.7	33	2,163	185	7.0	464
40 to 44 years .....	2,595	2,134	82.2	1,999	77.1	29	1,971	134	6.3	461
45 to 54 years .....	3,568	2,791	77.8	2,675	74.6	37	2,638	118	4.2	796
45 to 49 years .....	2,110	1,712	81.1	1,637	77.6	18	1,619	75	4.4	398
50 to 54 years .....	1,478	1,079	73.1	1,038	70.3	19	1,019	41	3.8	398
55 to 64 years .....	2,172	1,110	51.1	1,043	48.0	8	1,034	68	6.1	1,061
55 to 59 years .....	1,188	746	62.8	708	59.6	4	704	38	5.1	442
60 to 64 years .....	984	364	37.0	335	34.0	4	331	30	8.2	620
65 years and over .....	2,857	259	9.7	230	8.7	2	228	29	11.1	2,398
65 to 69 years .....	899	147	16.3	132	14.7	-	133	15	10.0	752
70 to 74 years .....	738	86	6.9	52	7.0	-	52	14	( <sup>1</sup> )	873
75 years and over .....	1,020	48	4.5	48	4.5	3	43	-	( <sup>1</sup> )	974
<b>Men</b>										
16 years and over .....	10,781	7,618	70.7	6,918	64.2	116	6,802	700	9.2	3,184
16 to 19 years .....	1,183	540	45.7	364	30.8	1	363	177	32.7	642
16 to 17 years .....	661	230	34.8	185	24.9	-	185	85	28.3	431
18 to 19 years .....	522	311	59.6	199	38.1	1	198	112	36.0	211
20 to 24 years .....	1,156	858	74.2	717	62.0	-	718	142	16.5	298
25 to 54 years .....	6,456	5,542	85.6	5,209	80.7	108	5,102	332	6.0	914
25 to 34 years .....	2,365	2,098	88.7	1,931	81.7	15	1,916	187	6.0	287
25 to 29 years .....	1,134	1,012	89.2	918	80.9	2	915	94	9.3	122
30 to 34 years .....	1,231	1,086	88.3	1,014	82.4	13	1,001	73	6.7	144
35 to 44 years .....	2,477	2,137	86.3	2,022	81.6	59	1,963	115	5.4	340
35 to 39 years .....	1,287	1,124	87.3	1,058	82.2	33	1,025	66	5.8	184
40 to 44 years .....	1,180	1,013	85.2	964	81.0	26	938	49	4.9	178
45 to 54 years .....	1,814	1,307	72.1	1,256	69.3	33	1,223	51	3.9	307
45 to 49 years .....	957	797	83.3	781	79.6	18	744	36	4.5	159
50 to 54 years .....	856	509	59.5	495	57.8	59	479	15	2.9	146
55 to 64 years .....	939	544	58.0	504	53.7	6	496	40	7.4	395
55 to 59 years .....	516	377	72.7	358	69.4	2	354	21	5.5	142
60 to 64 years .....	421	187	44.4	148	35.1	4	144	20	11.7	253
65 years and over .....	1,047	133	12.7	124	11.6	2	122	9	6.6	914
65 to 69 years .....	387	71	18.3	70	16.9	-	70	1	( <sup>1</sup> )	298
70 to 74 years .....	319	32	10.1	25	7.7	-	25	6	( <sup>1</sup> )	287
75 years and over .....	361	30	8.3	30	8.2	3	27	-	( <sup>1</sup> )	331
<b>Women</b>										
16 years and over .....	13,261	6,336	47.8	7,492	56.5	14	7,478	844	10.1	4,926
16 to 19 years .....	1,226	543	44.2	410	33.4	-	410	132	24.4	685
16 to 17 years .....	619	222	35.8	153	24.7	-	153	69	31.0	397
18 to 19 years .....	808	321	39.7	257	31.8	-	257	64	19.6	288
20 to 24 years .....	1,361	924	67.9	797	58.5	-	797	127	13.6	437
25 to 54 years .....	7,830	6,177	78.9	5,639	72.0	12	5,628	537	8.7	1,653
25 to 34 years .....	2,912	2,333	80.1	2,046	70.3	5	2,041	267	12.3	579
25 to 29 years .....	1,424	1,117	78.5	960	67.4	2	958	157	14.1	308
30 to 34 years .....	1,489	1,216	81.7	1,088	73.0	3	1,083	130	10.7	273
35 to 44 years .....	2,944	2,359	80.1	2,174	73.9	3	2,171	185	7.6	585
35 to 39 years .....	1,539	1,238	80.5	1,139	74.0	-	1,139	100	8.1	300
40 to 44 years .....	1,405	1,121	79.8	1,038	73.7	3	1,033	85	7.8	284
45 to 54 years .....	1,973	1,484	75.2	1,419	71.9	4	1,415	65	4.4	489
45 to 49 years .....	1,154	915	78.3	876	75.9	-	876	39	4.3	239
50 to 54 years .....	820	570	69.5	543	66.3	4	540	27	4.7	250
55 to 64 years .....	1,233	568	45.9	539	43.7	2	537	26	4.9	667
55 to 59 years .....	670	369	55.2	352	52.6	2	350	17	4.7	300
60 to 64 years .....	583	197	33.8	187	32.2	-	187	10	5.2	368
65 years and over .....	1,610	126	7.8	106	6.6	-	106	20	15.8	1,484
65 to 69 years .....	532	76	14.3	83	11.8	-	83	13	17.7	456
70 to 74 years .....	419	33	8.0	27	6.5	-	27	6	( <sup>1</sup> )	365
75 years and over .....	659	18	2.5	18	2.5	-	16	-	( <sup>1</sup> )	643

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

household survey.

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

**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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
<b>TOTAL</b>								
Civilian noninstitutional population .....	200,847	203,364	88,650	89,982	97,146	98,000	15,051	15,382
Civilian labor force .....	135,011	137,460	68,390	69,571	57,992	59,123	8,629	8,765
Percent of population .....	67.2	67.6	77.1	77.3	59.7	60.3	57.3	57.0
Employed .....	128,143	130,865	65,725	67,000	55,026	56,311	7,392	7,554
Agriculture .....	3,706	3,661	2,477	2,424	880	888	349	348
Nonagricultural industries .....	124,437	127,205	63,248	64,576	54,146	55,423	7,043	7,205
Unemployed .....	6,868	6,594	2,665	2,571	2,966	2,811	1,237	1,212
Unemployment rate .....	5.1	4.8	3.9	3.7	5.1	4.8	14.3	13.8
Not in labor force .....	65,836	65,904	20,261	20,410	39,153	38,877	6,422	6,617
<b>White</b>								
Civilian noninstitutional population .....	168,489	170,148	75,510	76,391	81,093	81,550	11,886	12,207
Civilian labor force .....	113,713	115,365	58,553	59,307	47,960	48,677	7,200	7,382
Percent of population .....	67.5	67.8	77.5	77.6	59.1	59.7	60.6	60.5
Employed .....	108,801	110,654	56,568	57,418	45,847	46,699	6,387	6,538
Agriculture .....	3,532	3,426	2,342	2,237	851	857	340	332
Nonagricultural industries .....	105,269	107,228	54,226	55,180	44,995	45,841	6,047	6,206
Unemployed .....	4,912	4,711	1,985	1,889	2,113	1,978	813	843
Unemployment rate .....	4.3	4.1	3.4	3.2	4.4	4.1	11.3	11.4
Not in labor force .....	54,776	54,783	16,957	17,085	33,133	32,873	4,686	4,825
<b>Black</b>								
Civilian noninstitutional population .....	23,650	24,043	9,412	9,599	11,850	12,034	2,388	2,410
Civilian labor force .....	15,470	15,953	6,888	7,077	7,478	7,793	1,104	1,083
Percent of population .....	65.4	66.4	73.2	73.7	63.1	64.8	46.2	44.9
Employed .....	13,792	14,409	6,320	6,554	6,749	7,081	723	774
Agriculture .....	96	130	85	115	8	14	2	1
Nonagricultural industries .....	13,697	14,280	6,234	6,439	6,741	7,068	721	773
Unemployed .....	1,677	1,544	568	523	728	712	381	309
Unemployment rate .....	10.8	9.7	8.2	7.4	9.7	9.1	34.5	28.5
Not in labor force .....	8,180	8,089	2,524	2,521	4,372	4,241	1,284	1,327

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	August 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 ENROLLED</b>										
Total, 16 to 24 years .....	9,473	4,730	49.9	4,242	1,645	2,596	488	167	321	10.3
16 to 19 years .....	6,029	2,663	44.2	2,317	659	1,858	346	98	248	13.0
20 to 24 years .....	3,444	2,067	60.0	1,925	987	938	142	69	73	6.9
High school .....	4,082	1,527	37.4	1,262	235	1,028	265	69	195	17.3
College .....	5,391	3,202	59.4	2,979	1,411	1,569	223	97	126	7.0
Full-time students .....	4,454	2,374	53.3	2,214	939	1,274	160	82	98	8.7
Part-time students .....	938	829	88.4	766	471	294	63	35	28	7.6
Men, 16 to 24 years .....	4,717	2,300	48.8	2,041	862	1,179	260	96	163	11.3
16 to 19 years .....	3,046	1,285	42.2	1,105	351	754	180	58	122	14.0
20 to 24 years .....	1,671	1,015	60.7	935	510	425	80	38	42	7.9
High school .....	2,254	834	37.0	695	169	528	140	48	92	16.8
College .....	2,463	1,488	59.5	1,346	693	653	120	48	72	8.2
Full-time students .....	2,061	1,104	53.6	1,009	468	541	94	29	65	8.5
Part-time students .....	402	362	90.1	337	224	112	26	19	7	7.1
Women, 16 to 24 years .....	4,756	2,429	51.1	2,201	784	1,417	228	70	156	9.4
16 to 19 years .....	2,983	1,378	46.2	1,211	308	904	168	40	126	12.1
20 to 24 years .....	1,773	1,052	59.3	990	476	514	62	30	31	5.9
High school .....	1,828	693	37.9	568	66	502	125	21	104	18.1
College .....	2,928	1,736	59.3	1,633	718	915	103	49	54	5.9
Full-time students .....	2,393	1,270	53.1	1,204	471	733	66	33	33	5.2
Part-time students .....	535	466	87.1	429	247	182	37	16	21	6.0
<b>White</b>										
Total, 16 to 24 years .....	7,313	3,839	52.5	3,504	1,379	2,125	334	113	222	8.7
16 to 19 years .....	4,664	2,177	46.7	1,947	570	1,377	230	67	163	10.6
20 to 24 years .....	2,649	1,662	62.7	1,557	810	748	104	45	59	8.3
Men .....	3,714	1,915	51.6	1,737	767	970	179	57	122	9.3
Women .....	3,600	1,923	53.4	1,768	612	1,155	156	56	100	8.1
High school .....	3,088	1,219	39.5	1,058	206	850	163	42	121	13.4
College .....	4,225	2,620	62.0	2,448	1,174	1,275	171	71	100	6.5
Full-time students .....	3,493	1,971	56.4	1,854	808	1,046	118	41	76	6.0
Part-time students .....	731	648	88.6	595	366	229	53	29	24	8.2
<b>Black</b>										
Total, 16 to 24 years .....	1,599	658	41.2	532	191	341	127	44	82	19.2
16 to 19 years .....	1,083	392	36.2	290	64	227	102	26	73	26.0
20 to 24 years .....	516	266	51.5	241	127	114	25	16	9	9.3
Men .....	727	270	37.2	204	62	142	66	35	31	24.5
Women .....	872	388	44.5	328	129	199	60	10	51	15.6
High school .....	823	264	32.1	173	21	152	91	25	66	34.5
College .....	777	394	50.8	359	170	188	36	20	16	9.0
Full-time students .....	638	274	42.9	246	99	148	27	15	12	9.9
Part-time students .....	139	121	87.3	112	72	41	9	5	4	7.0
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,233	506	41.0	424	154	271	61	48	34	16.1
16 to 19 years .....	674	289	33.0	228	60	168	60	29	31	20.9
20 to 24 years .....	358	217	60.6	196	94	102	21	19	2	9.7
Men .....	649	253	39.0	213	94	118	40	30	11	15.9
Women .....	584	253	43.3	212	60	152	41	16	23	16.2
High school .....	689	182	26.4	139	26	111	44	21	23	23.9
College .....	544	324	59.5	286	126	160	38	27	11	11.7
Full-time students .....	397	194	48.9	178	64	114	16	10	6	8.2
Part-time students .....	147	130	88.3	106	62	46	22	17	5	16.8

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	August 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, 16 to 24 years .....	23,336	17,797	76.3	15,985	11,587	4,379	1,832	1,447	384	10.3
16 to 19 years .....	9,354	6,102	65.2	5,237	2,625	2,612	866	579	267	14.2
20 to 24 years .....	13,983	11,695	83.6	10,729	8,962	1,766	966	868	98	8.3
Less than a high school diploma .....	7,914	4,798	60.6	4,020	2,135	1,885	778	544	234	18.2
High school graduates, no college .....	8,011	6,548	81.7	5,663	4,588	1,314	665	577	66	10.2
Less than a bachelor's degree .....	5,764	4,981	85.8	4,680	3,631	1,049	261	228	52	5.7
College graduates .....	1,626	1,490	91.5	1,383	1,252	131	107	98	9	7.2
Men, 16 to 24 years .....	11,831	9,699	82.0	8,689	6,795	1,894	1,010	822	188	10.4
16 to 19 years .....	4,810	3,293	68.5	2,784	1,578	1,206	508	348	160	15.4
20 to 24 years .....	7,021	6,406	91.2	5,904	5,217	688	502	474	28	7.8
Less than a high school diploma .....	4,206	2,902	69.0	2,427	1,485	942	475	347	128	16.4
High school graduates, no college .....	4,159	3,688	88.2	3,309	2,803	505	360	315	44	9.8
Less than a bachelor's degree .....	2,741	2,448	89.4	2,327	1,926	401	122	106	16	5.0
College graduates .....	724	679	93.8	625	580	45	54	54	-	7.9
Women, 16 to 24 years .....	11,508	8,098	70.4	7,277	4,792	2,485	822	825	197	10.1
16 to 19 years .....	4,544	2,810	61.8	2,453	1,047	1,406	357	231	127	12.7
20 to 24 years .....	6,962	5,289	76.0	4,824	3,745	1,079	464	394	70	8.8
Less than a high school diploma .....	3,708	1,896	51.1	1,593	850	943	304	197	107	16.0
High school graduates, no college .....	3,852	2,880	74.8	2,574	1,785	809	306	262	44	10.8
Less than a bachelor's degree .....	3,043	2,512	82.5	2,353	1,705	648	159	123	36	6.3
College graduates .....	903	610	89.7	757	672	85	53	44	10	6.8
<b>White</b>										
Total, 16 to 24 years .....	18,884	14,901	78.9	13,817	9,957	3,661	1,284	1,005	279	8.8
16 to 19 years .....	7,543	5,205	69.0	4,591	2,354	2,237	614	412	202	11.8
20 to 24 years .....	11,342	9,697	85.5	9,026	7,802	1,424	670	593	77	6.9
Men .....	9,849	8,199	85.0	7,503	5,949	1,555	696	572	124	8.5
Women .....	9,235	6,702	72.6	6,114	4,008	2,106	588	433	155	8.8
Less than a high school diploma .....	6,188	3,942	63.7	3,404	1,844	1,560	538	385	173	13.8
High school graduates, no college .....	6,464	5,425	83.7	4,979	3,892	1,087	448	389	56	8.2
Less than a bachelor's degree .....	4,817	4,247	88.2	4,030	3,119	912	217	175	42	5.1
College graduates .....	1,395	1,288	92.3	1,204	1,102	102	84	78	8	6.5
<b>Black</b>										
Total, 16 to 24 years .....	3,329	2,207	66.3	1,756	1,228	530	451	373	78	20.5
16 to 19 years .....	1,328	891	52.0	484	212	271	207	146	61	30.0
20 to 24 years .....	2,001	1,517	75.8	1,272	1,014	258	244	227	17	16.1
Men .....	1,612	1,128	70.0	876	623	253	252	212	40	22.3
Women .....	1,717	1,079	62.9	880	604	276	199	161	38	18.5
Less than a high school diploma .....	1,274	648	50.9	451	206	244	198	152	46	30.5
High school graduates, no college .....	1,204	910	75.6	725	541	184	184	159	25	20.3
Less than a bachelor's degree .....	728	537	73.7	483	404	79	53	46	7	9.9
College graduates .....	123	113	91.3	97	74	22	18	16	-	14.1
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	3,552	2,506	70.8	2,185	1,682	503	321	277	43	12.8
16 to 19 years .....	1,258	677	53.8	547	334	214	130	98	34	19.2
20 to 24 years .....	2,293	1,829	79.7	1,638	1,348	289	191	182	9	10.4
Men .....	1,936	1,619	83.8	1,438	1,204	234	181	168	13	11.2
Women .....	1,815	886	49.0	747	478	269	140	109	31	15.7
Less than a high school diploma .....	1,774	1,082	61.0	906	694	212	178	152	25	16.3
High school graduates, no college .....	1,158	893	77.1	781	616	174	102	95	7	11.4
Less than a bachelor's degree .....	540	483	89.3	427	322	105	37	30	7	7.9
College graduates .....	80	87	108.8	61	49	12	6	2	5	( <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 1997, 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	August 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 .....	109,403	91,493	10,433	7,476	21,462	2,754	16,154	2,555	5,300	1,294
16 to 19 years .....	3,284	2,620	558	106	4,270	397	3,589	284	677	535
16 to 17 years .....	703	532	144	27	2,399	94	2,146	159	180	357
18 to 19 years .....	2,580	2,089	414	78	1,871	303	1,443	126	498	178
20 years and over .....	106,119	88,873	9,875	7,371	17,192	2,357	12,565	2,270	4,823	760
20 to 24 years .....	9,949	8,607	932	410	2,705	579	1,923	203	937	171
25 years and over .....	96,171	80,267	8,943	6,961	14,488	1,778	10,642	2,067	3,686	589
25 to 54 years .....	84,371	70,688	7,674	6,028	10,406	1,525	7,343	1,539	3,332	409
55 years and over .....	11,800	9,599	1,269	932	4,081	254	3,300	528	354	180
<b>Men, 16 years and over</b> .....	64,115	55,278	5,326	3,511	6,775	1,113	5,105	558	2,746	513
16 to 19 years .....	1,929	1,540	334	56	1,960	208	1,638	114	407	282
20 years and over .....	62,185	53,738	4,992	3,455	4,815	905	3,466	444	2,340	231
20 to 24 years .....	5,727	5,050	490	188	1,112	244	777	91	512	69
25 years and over .....	56,458	48,688	4,503	3,267	3,703	660	2,690	352	1,827	162
25 to 54 years .....	49,220	42,579	3,826	2,815	2,011	561	1,264	186	1,632	82
55 years and over .....	7,238	6,109	676	452	1,691	99	1,426	166	195	80
<b>Women, 18 years and over</b> .....	45,288	36,215	5,107	3,966	14,687	1,642	11,049	1,997	2,554	781
16 to 19 years .....	1,354	1,080	224	50	2,310	189	1,951	170	271	253
20 years and over .....	43,934	35,135	4,883	3,916	12,377	1,453	9,098	1,827	2,283	528
20 to 24 years .....	4,221	3,556	442	223	1,592	335	1,146	112	425	102
25 years and over .....	39,713	31,578	4,440	3,694	10,785	1,118	7,952	1,715	1,858	427
25 to 54 years .....	35,151	28,089	3,848	3,214	8,395	964	6,078	1,353	1,700	327
55 years and over .....	4,562	3,489	593	480	2,390	154	1,874	362	159	100
<b>White</b>										
<b>Men, 16 years and over</b> .....	55,170	47,581	4,538	3,052	5,652	836	4,358	458	1,976	382
16 to 19 years .....	1,749	1,409	295	45	1,656	169	1,389	97	276	193
20 years and over .....	53,421	46,172	4,243	3,007	3,996	667	2,969	360	1,699	190
20 to 24 years .....	4,967	4,384	422	161	869	177	628	64	352	53
25 years and over .....	48,454	41,788	3,821	2,846	3,128	490	2,342	296	1,348	136
25 to 54 years .....	42,087	36,421	3,234	2,432	1,563	415	1,007	141	1,207	68
55 years and over .....	6,367	5,367	587	414	1,565	75	1,334	155	141	68
<b>Women, 16 years and over</b> .....	36,959	29,483	4,204	3,272	12,873	1,227	9,848	1,798	1,739	613
16 to 19 years .....	1,175	932	187	46	1,958	136	1,683	140	203	172
20 years and over .....	35,784	28,550	4,008	3,226	10,915	1,092	8,165	1,658	1,536	442
20 to 24 years .....	3,445	2,889	361	195	1,303	250	962	91	287	83
25 years and over .....	32,339	25,662	3,846	3,031	9,612	842	7,204	1,566	1,249	359
25 to 54 years .....	28,417	22,658	3,131	2,629	7,451	720	5,494	1,237	1,133	279
55 years and over .....	3,921	3,004	515	402	2,161	122	1,710	330	116	80
<b>Black</b>										
<b>Men, 16 years and over</b> .....	6,129	5,286	505	338	788	198	512	78	609	91
16 to 19 years .....	136	96	32	8	228	34	178	16	117	60
20 years and over .....	5,993	5,190	473	330	561	165	334	62	491	32
20 to 24 years .....	549	484	49	16	168	56	89	22	130	12
25 years and over .....	5,444	4,707	424	314	393	108	244	40	362	20
25 to 54 years .....	4,916	4,239	390	288	293	88	175	30	323	9
55 years and over .....	528	468	34	26	100	20	69	11	39	11
<b>Women, 16 years and over</b> .....	6,184	4,943	694	547	1,308	337	834	137	695	149
16 to 19 years .....	140	114	23	2	270	45	209	16	57	75
20 years and over .....	6,044	4,829	671	544	1,037	292	625	120	638	74
20 to 24 years .....	593	498	70	25	204	70	123	11	113	14
25 years and over .....	5,452	4,330	602	520	833	221	503	109	524	60
25 to 54 years .....	4,983	3,977	550	456	656	192	382	82	493	45
55 years and over .....	468	353	51	64	177	29	121	27	32	15

<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 are also 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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
Total .....	128,143	130,865	69,533	70,890	65,725	67,000	58,610	59,976	55,026	56,311
Managerial and professional specialty .....	36,265	37,407	18,798	19,311	18,672	19,175	17,467	18,096	17,300	17,916
Executive, administrative, and managerial .....	18,097	18,649	10,100	10,417	10,056	10,365	7,997	8,232	7,939	8,165
Officials and administrators, public administration .....	719	704	368	369	365	369	351	334	351	335
Other executive, administrative, and managerial .....	12,887	13,206	7,796	7,952	7,759	7,912	5,090	5,254	5,050	5,198
Management-related occupations .....	4,491	4,739	1,936	2,096	1,932	2,084	2,556	2,644	2,538	2,632
Professional specialty .....	18,168	18,758	8,698	8,894	8,616	8,811	9,470	9,864	9,361	9,751
Engineers .....	1,996	2,031	1,835	1,853	1,829	1,852	160	178	161	178
Mathematical and computer scientists .....	1,331	1,455	929	1,032	923	1,029	402	423	402	423
Natural scientists .....	520	521	373	352	372	352	147	169	147	170
Health diagnosing occupations .....	991	1,059	716	767	716	767	274	292	274	293
Health assessment and treating occupations .....	2,811	2,824	434	414	434	414	2,377	2,411	2,370	2,409
Teachers, college and university .....	720	742	410	438	411	437	309	304	304	301
Teachers, except college and university .....	4,385	4,486	1,208	1,084	1,187	1,057	3,177	3,402	3,137	3,359
Lawyers and judges .....	920	939	652	695	652	692	268	244	269	244
Other professional specialty occupations .....	4,495	4,700	2,140	2,260	2,092	2,210	2,355	2,441	2,296	2,375
Technical, sales, and administrative support .....	37,971	38,475	13,722	13,822	12,913	12,984	24,249	24,654	22,479	22,860
Technicians and related support .....	4,052	4,323	1,947	2,053	1,920	1,995	2,105	2,270	2,075	2,235
Health technologists and technicians .....	1,594	1,703	288	335	284	333	1,306	1,368	1,285	1,349
Engineering and science technicians .....	1,196	1,336	905	982	891	941	291	354	289	344
Technicians, except health, engineering, and science .....	1,261	1,285	754	736	744	721	508	548	501	542
Sales occupations .....	15,647	15,841	7,854	7,933	7,335	7,404	7,793	7,908	6,617	6,746
Supervisors and proprietors .....	4,526	4,709	2,809	2,895	2,785	2,877	1,716	1,814	1,696	1,795
Sales representatives, finance and business services .....	2,467	2,620	1,443	1,478	1,435	1,466	1,024	1,142	1,002	1,117
Sales representatives, commodities, except retail .....	1,604	1,481	1,196	1,078	1,179	1,069	408	403	403	395
Sales workers, retail and personal services .....	6,969	6,956	2,378	2,451	1,908	1,965	4,591	4,505	3,463	3,395
Sales-related occupations .....	82	75	27	31	28	28	54	44	52	44
Administrative support, including clerical .....	18,272	18,312	3,921	3,836	3,659	3,585	14,351	14,476	13,787	13,878
Supervisors .....	682	693	261	264	261	262	421	429	417	422
Computer equipment operators .....	425	349	186	145	182	146	239	205	224	199
Secretaries, stenographers, and typists .....	3,939	3,730	113	69	103	64	3,826	3,661	3,713	3,587
Financial records processing .....	2,261	2,202	207	169	198	156	2,054	2,034	2,034	2,011
Mail and message distributing .....	955	968	612	617	592	595	343	352	328	340
Other administrative support, including clerical .....	10,010	10,369	2,542	2,574	2,322	2,361	7,469	7,795	7,071	7,318
Service occupations .....	17,571	18,041	7,226	7,490	6,101	6,361	10,345	10,550	9,006	9,235
Private household .....	898	856	53	30	47	31	845	826	675	699
Protective service .....	2,367	2,492	1,904	2,012	1,848	1,932	463	480	368	381
Service, except private household and protective .....	14,307	14,692	5,270	5,448	4,207	4,398	9,037	9,244	7,963	8,154
Food service .....	5,913	6,128	2,625	2,696	1,827	1,952	3,287	3,433	2,545	2,709
Health service .....	2,476	2,424	306	281	300	267	2,170	2,143	2,060	2,045
Cleaning and building service .....	3,113	3,216	1,739	1,842	1,594	1,677	1,375	1,373	1,293	1,312
Personal service .....	2,805	2,924	600	629	485	503	2,205	2,295	2,065	2,088
Precision production, craft, and repair .....	14,029	14,349	12,707	13,073	12,369	12,711	1,323	1,277	1,292	1,248
Mechanics and repairers .....	4,598	4,820	4,376	4,627	4,246	4,518	222	193	222	192
Construction trades .....	5,360	5,451	5,211	5,321	5,066	5,148	149	129	145	126
Other precision production, craft, and repair .....	4,071	4,079	3,119	3,124	3,057	3,045	952	955	926	929
Operators, fabricators, and laborers .....	18,344	18,754	13,873	14,116	12,837	13,062	4,471	4,638	4,261	4,372
Machine operators, assemblers, and inspectors .....	8,012	8,141	4,944	5,083	4,777	4,882	3,069	3,058	2,973	2,962
Transportation and material moving occupations .....	5,305	5,370	4,835	4,866	4,727	4,764	470	504	449	478
Motor vehicle operators .....	3,935	4,057	3,527	3,605	3,441	3,516	409	451	390	425
Other transportation and material moving occupations .....	1,370	1,313	1,308	1,260	1,285	1,249	62	53	59	53
Handlers, equipment cleaners, helpers, and laborers .....	5,026	5,243	4,094	4,167	3,333	3,416	932	1,076	839	933
Construction laborers .....	898	906	866	862	748	744	32	44	28	40
Other handlers, equipment cleaners, helpers, and laborers .....	4,129	4,337	3,229	3,305	2,586	2,672	900	1,032	811	893
Farming, forestry, and fishing .....	3,962	3,839	3,208	3,078	2,833	2,707	754	761	688	681
Farm operators and managers .....	1,405	1,379	1,065	1,065	1,054	1,050	340	314	340	313
Other farming, forestry, and fishing occupations .....	2,557	2,460	2,143	2,014	1,779	1,657	414	447	348	368

NOTE: Beginning in January 1997, data reflect revised 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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	128,143	130,865	69,533	70,890	58,610	59,976
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	28.3	28.6	27.0	27.2	29.8	30.2
Executive, administrative, and managerial .....	14.1	14.3	14.5	14.7	13.6	13.7
Professional specialty .....	14.2	14.3	12.5	12.5	16.2	16.4
Technical, sales, and administrative support .....	29.6	29.4	19.7	19.5	41.4	41.1
Technicians and related support .....	3.2	3.3	2.8	2.9	3.6	3.8
Sales occupations .....	12.2	12.1	11.3	11.2	13.3	13.2
Administrative support, including clerical .....	14.3	14.0	5.6	5.4	24.5	24.1
Service occupations .....	13.7	13.8	10.4	10.6	17.7	17.6
Private household .....	.7	.7	.1	( <sup>1</sup> )	1.4	1.4
Protective service .....	1.8	1.9	2.7	2.8	.8	.8
Service, except private household and protective .....	11.2	11.2	7.6	7.7	15.4	15.4
Precision production, craft, and repair .....	10.9	11.0	18.3	18.4	2.3	2.1
Operators, fabricators, and laborers .....	14.3	14.3	20.0	19.9	7.6	7.7
Machine operators, assemblers, and inspectors .....	6.3	6.2	7.1	7.2	5.2	5.1
Transportation and material moving occupations .....	4.1	4.1	7.0	6.9	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.9	4.0	5.9	5.9	1.6	1.8
Farming, forestry, and fishing .....	3.1	2.9	4.6	4.3	1.3	1.3
<b>White</b>						
Total, 16 years and over (thousands) .....	108,801	110,654	59,862	60,822	48,939	49,832
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	29.2	29.6	27.9	28.1	30.8	31.4
Executive, administrative, and managerial .....	14.7	14.9	15.1	15.4	14.2	14.3
Professional specialty .....	14.5	14.7	12.8	12.7	16.6	17.0
Technical, sales, and administrative support .....	29.7	29.6	19.7	19.7	42.0	41.8
Technicians and related support .....	3.2	3.3	2.8	2.9	3.6	3.8
Sales occupations .....	12.5	12.4	11.6	11.7	13.7	13.3
Administrative support, including clerical .....	14.0	13.9	5.3	5.1	24.7	24.6
Service occupations .....	12.7	12.5	9.5	9.4	16.6	16.3
Private household .....	.7	.6	.1	( <sup>1</sup> )	1.4	1.4
Protective service .....	1.8	1.7	2.6	2.6	.7	.7
Service, except private household and protective .....	10.3	10.2	6.8	6.8	14.6	14.2
Precision production, craft, and repair .....	11.4	11.4	18.9	19.1	2.1	2.1
Operators, fabricators, and laborers .....	13.6	13.6	19.1	19.0	7.0	7.1
Machine operators, assemblers, and inspectors .....	5.9	5.9	6.9	6.9	4.7	4.6
Transportation and material moving occupations .....	4.1	4.0	6.7	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.7	3.8	5.5	5.5	1.5	1.7
Farming, forestry, and fishing .....	3.4	3.2	5.0	4.6	1.5	1.5
<b>Black</b>						
Total, 16 years and over (thousands) .....	13,792	14,409	6,687	6,918	7,106	7,492
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	19.8	19.7	16.7	16.7	22.7	22.4
Executive, administrative, and managerial .....	9.3	9.5	8.9	8.9	9.8	10.0
Professional specialty .....	10.5	10.2	7.9	7.9	13.0	12.4
Technical, sales, and administrative support .....	28.5	27.8	18.0	16.6	38.4	38.1
Technicians and related support .....	2.8	3.0	2.4	2.5	3.2	3.5
Sales occupations .....	9.0	9.0	7.6	6.2	10.4	11.5
Administrative support, including clerical .....	16.7	15.8	8.0	7.9	24.8	23.1
Service occupations .....	21.7	23.4	18.0	19.8	25.2	26.7
Private household .....	1.1	.9	.1	.1	2.1	1.6
Protective service .....	3.0	3.4	4.5	5.3	1.5	1.6
Service, except private household and protective .....	17.6	19.2	13.3	14.4	21.5	23.5
Precision production, craft, and repair .....	8.3	8.0	14.5	14.6	2.5	1.9
Operators, fabricators, and laborers .....	20.4	19.8	30.3	29.7	11.1	10.6
Machine operators, assemblers, and inspectors .....	8.8	8.2	9.5	9.5	8.1	7.0
Transportation and material moving occupations .....	5.6	5.9	10.6	10.9	.9	1.3
Handlers, equipment cleaners, helpers, and laborers .....	6.1	5.7	10.3	9.4	2.1	2.3
Farming, forestry, and fishing .....	1.3	1.3	2.5	2.5	.2	.2

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

NOTE: Beginning in January 1997, data reflect revised population

controls used in the household survey.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	August 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 .....	3,661	125	87	65	19	158	-	18	34	18	52	20	3,066
Mining .....	646	71	40	42	10	72	-	2	254	26	98	30	1
Construction .....	8,602	1,247	156	46	68	466	-	40	4,820	113	625	998	24
Manufacturing .....	21,119	2,910	1,922	708	777	2,101	-	252	3,891	6,695	717	1,050	96
Durable goods .....	12,356	1,647	1,179	431	291	1,144	-	145	2,782	3,734	398	524	79
Nondurable goods .....	8,763	1,263	743	277	485	957	-	107	1,108	2,961	320	526	17
Transportation and public utilities .....	9,109	1,215	539	340	264	2,286	-	296	1,270	117	2,220	538	25
Wholesale and retail trade .....	27,205	2,564	562	211	11,351	2,170	-	5,297	1,594	308	1,104	1,960	86
Wholesale trade .....	5,011	634	129	64	1,945	731	-	46	352	122	538	399	51
Retail trade .....	22,194	1,931	433	146	9,406	1,438	-	5,252	1,242	186	565	1,561	35
Finance, insurance, and real estate .....	8,556	2,499	320	144	2,191	2,829	-	333	171	9	11	18	32
Services .....	46,013	6,692	14,120	2,579	1,135	6,877	856	9,203	2,137	840	503	595	475
Private households .....	1,013	5	8	8	-	5	856	71	9	-	-	13	37
Other service industries .....	45,000	6,687	14,112	2,572	1,135	6,872	-	9,132	2,127	840	503	583	438
Professional services .....	29,942	4,078	12,229	2,187	203	4,921	-	5,232	440	198	229	102	123
Public administration .....	5,955	1,327	1,013	189	26	1,352	-	1,743	180	15	41	33	34

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

controls used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	August 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			
<b>Total, 16 years and over</b> .....	2,001	1,597	63	118,116	100,409	1,005	99,404	17,706	8,959	130
16 to 19 years .....	264	56	28	7,095	6,655	140	6,515	439	83	28
16 to 17 years .....	119	24	16	2,894	2,703	76	2,627	190	39	11
18 to 19 years .....	146	32	11	4,201	3,952	64	3,888	249	44	17
20 to 24 years .....	274	31	6	12,107	11,242	99	11,143	865	224	12
25 to 34 years .....	478	197	5	29,478	25,850	167	25,684	3,627	1,537	17
35 to 44 years .....	502	401	11	32,648	27,256	242	27,014	5,392	2,685	24
45 to 54 years .....	266	334	3	23,704	18,601	159	18,442	5,103	2,453	32
55 to 64 years .....	160	306	6	10,437	8,513	145	8,368	1,924	1,393	13
65 years and over .....	56	272	5	2,847	2,292	53	2,239	356	583	3
<b>Men, 16 years and over</b> .....	1,472	1,185	40	62,639	54,646	84	54,563	7,993	5,525	29
16 to 19 years .....	195	54	23	3,562	3,358	8	3,350	204	37	-
16 to 17 years .....	94	23	12	1,483	1,394	4	1,391	88	21	3
18 to 19 years .....	101	31	11	2,080	1,964	4	1,960	116	16	-
20 to 24 years .....	215	29	5	8,481	8,057	15	8,042	424	110	1
25 to 34 years .....	371	139	2	15,970	14,281	26	14,236	1,709	933	2
35 to 44 years .....	340	302	-	17,350	14,973	25	14,949	2,377	1,645	-
45 to 54 years .....	197	230	2	12,216	9,965	3	9,962	2,252	1,523	6
55 to 64 years .....	107	223	2	5,581	4,713	4	4,709	868	884	1
65 years and over .....	46	209	2	1,479	1,318	3	1,315	160	393	2
<b>Women, 16 years and over</b> .....	530	412	23	55,477	45,763	922	44,841	9,714	3,434	101
16 to 19 years .....	70	2	5	3,532	3,297	132	3,165	235	46	10
16 to 17 years .....	25	1	-	1,411	1,309	72	1,237	102	18	7
18 to 19 years .....	45	1	-	2,121	1,988	60	1,928	133	28	3
20 to 24 years .....	59	2	1	5,626	5,185	84	5,100	441	114	12
25 to 34 years .....	108	58	3	13,508	11,589	141	11,448	1,919	605	15
35 to 44 years .....	162	100	7	15,298	12,283	217	12,066	3,015	1,040	24
45 to 54 years .....	68	104	1	11,487	8,636	157	8,479	2,851	930	27
55 to 64 years .....	53	83	4	4,856	3,800	141	3,659	1,056	509	12
65 years and over .....	10	83	3	1,169	973	50	924	195	190	1

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	August 1997					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	120,834	3,452	117,382	100.0	100.0	100.0
1 to 34 hours .....	28,452	934	27,518	23.5	27.0	23.4
1 to 4 hours .....	1,389	87	1,302	1.1	2.5	1.1
5 to 14 hours .....	4,057	193	3,864	3.4	5.6	3.3
15 to 29 hours .....	14,160	422	13,739	11.7	12.2	11.7
30 to 34 hours .....	8,846	232	8,614	7.3	6.7	7.3
35 hours and over .....	92,383	2,519	89,864	76.5	73.0	76.6
35 to 39 hours .....	8,505	198	8,308	7.0	5.7	7.1
40 hours .....	44,883	777	44,105	37.1	22.5	37.6
41 hours and over .....	38,995	1,544	37,451	32.3	44.7	31.9
41 to 48 hours .....	14,049	278	13,771	11.6	8.1	11.7
49 to 59 hours .....	14,208	429	13,779	11.8	12.4	11.7
60 hours and over .....	10,737	837	9,901	8.9	24.2	8.4
Average hours, total at work .....	39.9	43.5	39.8	-	-	-
Average hours, persons who usually work full time .....	43.3	49.5	43.1	-	-	-

NOTE: Detail on persons at work in tables A-21 through A-25 may not sum to the totals shown because of minor editing problems associated with the

redesigned survey. 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	August 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 .....	28,452	10,433	18,019	27,518	10,153	17,365
Economic reasons .....	4,036	1,415	2,621	3,877	1,351	2,527
Slack work or business conditions .....	2,078	1,032	1,046	1,972	979	993
Could only find part-time work .....	1,518	-	1,518	1,479	-	1,479
Seasonal work .....	135	77	58	126	71	55
Job started or ended during week .....	306	306	-	300	300	-
Noneconomic reasons .....	24,416	9,018	15,398	23,641	8,802	14,839
Child-care problems .....	649	63	587	641	63	577
Other family or personal obligations .....	4,729	620	4,109	4,578	612	3,966
Health or medical limitations .....	633	-	633	607	-	607
In school or training .....	4,744	125	4,618	4,603	123	4,480
Retired or Social Security limit on earnings .....	1,692	-	1,692	1,575	-	1,575
Vacation or personal day .....	5,240	5,240	-	5,147	5,147	-
Holiday, legal or religious .....	140	140	-	138	138	-
Weather-related curtailment .....	248	248	-	197	197	-
All other reasons .....	6,341	2,583	3,759	6,156	2,522	3,634
Average hours:						
Economic reasons .....	23.2	24.2	22.7	23.3	24.4	22.7
Other reasons .....	21.5	24.0	20.0	21.6	24.1	20.1

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	August 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 .....	117,382	27,518	3,877	8,802	14,839	89,864	39.8	43.1
Wage and salary workers .....	109,038	24,831	3,532	8,153	13,146	84,207	39.8	42.9
Mining .....	596	47	1	29	17	549	49.5	50.3
Construction .....	6,764	1,203	249	600	353	5,561	41.1	42.6
Manufacturing .....	19,688	2,288	314	1,315	660	17,400	42.6	43.5
Durable goods .....	11,502	1,141	123	746	273	10,361	43.3	43.9
Nondurable goods .....	8,186	1,147	191	569	387	7,039	41.7	43.0
Transportation and public utilities .....	7,937	1,137	142	586	410	6,800	43.3	44.8
Wholesale and retail trade .....	24,071	7,597	1,219	1,326	5,053	16,474	37.8	43.3
Finance, insurance, and real estate .....	7,543	1,356	147	539	670	6,186	40.4	42.7
Service industries .....	36,870	10,335	1,434	3,163	5,738	26,536	38.1	42.0
Private households .....	969	515	89	42	383	454	30.0	42.4
All other industries .....	35,902	9,820	1,344	3,121	5,355	26,082	38.3	42.0
Public administration .....	5,569	867	26	596	245	4,702	41.0	42.0
Self-employed workers .....	8,214	2,624	340	642	1,643	5,589	39.9	46.5
Unpaid family workers .....	130	63	5	8	49	67	34.2	43.0

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



**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	August 1997							Total at work	Persons who usually work full time	
	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			
				Usually work full time	Usually work part time					
<b>TOTAL</b>										
Total, 16 years and over .....	117,382	27,518	3,877	8,802	14,839	89,864	39.8	43.1		
16 to 19 years .....	6,835	4,210	499	409	3,302	2,625	28.7	39.1		
16 to 17 years .....	2,770	2,196	119	110	1,967	575	23.2	36.7		
18 to 19 years .....	4,065	2,014	380	299	1,335	2,051	32.4	39.7		
20 years and over .....	110,547	23,308	3,378	8,393	11,537	87,239	40.5	43.3		
20 to 24 years .....	11,739	3,248	889	756	1,804	8,491	38.0	41.8		
25 years and over .....	98,807	20,060	2,690	7,637	9,733	78,748	40.8	43.4		
25 to 54 years .....	85,119	15,872	2,320	6,568	6,785	69,447	41.4	43.5		
55 years and over .....	13,688	4,387	370	1,070	2,948	9,301	36.9	42.6		
<b>Men, 16 years and over</b> .....	<b>64,252</b>	<b>10,832</b>	<b>1,713</b>	<b>4,384</b>	<b>4,535</b>	<b>53,619</b>	<b>42.6</b>	<b>44.7</b>		
16 to 19 years .....	3,458	1,964	277	232	1,455	1,494	30.0	39.6		
16 to 17 years .....	1,432	1,076	58	74	944	356	23.9	36.4		
18 to 19 years .....	2,027	889	219	158	512	1,138	34.3	40.6		
20 years and over .....	60,793	8,668	1,436	4,152	3,080	52,125	43.3	44.9		
20 to 24 years .....	6,316	1,393	315	381	697	4,923	40.1	43.1		
25 years and over .....	54,477	7,275	1,121	3,771	2,383	47,203	43.7	45.1		
25 to 54 years .....	46,709	5,306	948	3,218	1,140	41,403	44.4	45.2		
55 years and over .....	7,769	1,969	173	553	1,243	5,800	39.4	43.8		
<b>Women, 18 years and over</b> .....	<b>53,131</b>	<b>16,886</b>	<b>2,164</b>	<b>4,418</b>	<b>10,304</b>	<b>36,245</b>	<b>36.3</b>	<b>40.9</b>		
16 to 19 years .....	3,377	2,248	221	177	1,847	1,131	27.3	38.3		
16 to 17 years .....	1,339	1,120	60	36	1,024	219	22.5	37.3		
18 to 19 years .....	2,038	1,126	161	141	823	913	30.5	38.5		
20 years and over .....	49,754	14,640	1,943	4,241	8,457	35,113	37.0	41.0		
20 to 24 years .....	5,424	1,855	374	375	1,107	3,568	35.5	40.2		
25 years and over .....	44,330	12,785	1,569	3,866	7,350	31,545	37.1	41.0		
25 to 54 years .....	38,410	10,367	1,372	3,350	5,645	28,044	37.7	41.1		
55 years and over .....	5,920	2,419	197	516	1,705	3,501	33.8	40.6		
<b>Race</b>										
White, 16 years and over .....	98,851	23,393	3,001	7,396	12,996	75,458	39.9	43.3		
Men .....	54,938	8,929	1,353	3,741	3,835	46,009	42.9	44.9		
Women .....	43,913	14,464	1,647	3,655	9,161	29,449	36.1	40.9		
Black, 16 years and over .....	13,186	2,944	677	996	1,271	10,242	38.7	41.4		
Men .....	6,392	1,147	250	417	481	5,245	40.5	42.8		
Women .....	6,794	1,797	426	579	790	4,997	37.0	40.0		
<b>Marital status</b>										
Men, 16 years and over:										
Married, spouse present .....	38,452	4,771	606	2,678	1,487	33,881	44.2	45.4		
Widowed, divorced, or separated .....	7,497	1,150	231	494	425	6,347	42.8	44.7		
Single (never married) .....	18,302	4,711	875	1,212	2,623	13,592	39.1	43.1		
Women, 16 years and over:										
Married, spouse present .....	27,909	8,964	886	2,382	5,736	18,945	36.1	40.7		
Widowed, divorced, or separated .....	11,000	2,855	485	1,029	1,341	8,145	38.2	41.3		
Single (never married) .....	14,222	5,067	813	1,027	3,227	9,155	35.4	40.9		

NOTE: Beginning in January 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	August 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> .....	117,210	27,433	3,849	8,762	14,823	89,777	39.8	43.1
Managerial and professional specialty .....	33,283	6,275	609	2,856	2,811	27,008	42.0	44.3
Executive, administrative, and managerial .....	17,546	2,516	187	1,281	1,048	15,030	44.0	45.7
Professional specialty .....	15,737	3,759	421	1,575	1,762	11,979	39.9	42.8
Technical, sales, and administrative support .....	35,852	9,743	1,035	2,707	6,002	26,109	38.2	42.2
Technicians and related support .....	4,049	832	48	360	424	3,217	39.8	42.0
Sales occupations .....	14,911	4,410	593	921	2,895	10,501	39.1	44.5
Administrative support, including clerical .....	16,891	4,501	394	1,425	2,682	12,390	36.9	40.4
Service occupations .....	16,842	6,415	1,148	1,090	4,177	10,426	35.2	41.6
Private household .....	821	446	76	31	339	375	29.6	42.1
Protective service .....	2,305	448	45	176	226	1,857	42.1	44.7
Service, except private household and protective .....	13,716	5,522	1,028	882	3,612	8,194	34.3	40.9
Precision production, craft, and repair .....	13,588	1,865	381	1,004	479	11,723	42.4	43.5
Operators, fabricators, and laborers .....	17,645	3,135	676	1,106	1,354	14,510	41.2	43.4
Machine operators, assemblers, and inspectors .....	7,802	1,059	247	496	317	6,743	41.4	42.5
Transportation and material moving occupations .....	4,928	728	147	258	322	4,200	44.8	46.9
Handlers, equipment cleaners, helpers, and laborers .....	4,915	1,348	282	352	714	3,567	37.2	40.9
Men, 16 years and over <sup>1</sup> .....	63,897	10,475	1,683	4,336	4,456	53,422	42.7	44.7
Managerial and professional specialty .....	17,836	2,964	265	1,359	739	15,472	44.9	46.2
Executive, administrative, and managerial .....	9,821	1,062	104	634	324	8,759	46.4	47.5
Professional specialty .....	8,015	1,302	162	725	415	6,713	43.0	44.6
Technical, sales, and administrative support .....	13,158	2,286	267	852	1,168	10,872	42.6	45.1
Technicians and related support .....	1,919	270	11	175	64	1,649	42.5	43.5
Sales occupations .....	7,582	1,317	156	395	766	6,265	43.7	46.7
Administrative support, including clerical .....	3,658	699	99	282	318	2,959	40.4	42.7
Service occupations .....	7,124	2,077	387	447	1,243	5,047	37.9	42.6
Private household .....	30	6	3	2	2	25	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,866	304	28	122	154	1,562	43.2	45.5
Service, except private household and protective .....	5,228	1,767	356	323	1,087	3,461	36.1	41.7
Precision production, craft, and repair .....	12,411	1,604	333	893	378	10,807	42.8	43.8
Operators, fabricators, and laborers .....	13,369	2,145	431	785	928	11,224	42.1	44.2
Machine operators, assemblers, and inspectors .....	4,905	523	105	283	135	4,382	42.7	43.5
Transportation and material moving occupations .....	4,539	598	119	224	255	3,941	45.5	47.3
Handlers, equipment cleaners, helpers, and laborers .....	3,924	1,023	207	278	538	2,901	37.6	41.1
Women, 16 years and over <sup>1</sup> .....	53,312	16,958	2,165	4,426	10,367	36,355	36.3	40.9
Managerial and professional specialty .....	15,448	3,911	343	1,497	2,072	11,536	38.8	41.9
Executive, administrative, and managerial .....	7,725	1,455	83	647	724	6,271	40.9	43.2
Professional specialty .....	7,722	2,457	260	849	1,347	5,266	36.7	40.5
Technical, sales, and administrative support .....	22,694	7,457	768	1,855	4,834	15,237	35.6	40.2
Technicians and related support .....	2,131	582	36	186	340	1,569	37.3	40.3
Sales occupations .....	7,330	3,093	437	526	2,129	4,237	34.4	41.3
Administrative support, including clerical .....	13,234	3,802	295	1,143	2,364	9,431	36.0	39.7
Service occupations .....	9,717	4,338	761	843	2,934	5,379	33.1	40.5
Private household .....	791	440	73	30	338	350	29.4	42.3
Protective service .....	439	143	17	54	72	295	37.2	41.1
Service, except private household and protective .....	8,488	3,755	671	559	2,524	4,733	33.3	40.4
Precision production, craft, and repair .....	1,177	261	48	111	102	918	38.3	40.4
Operators, fabricators, and laborers .....	4,276	990	244	320	426	3,286	38.2	40.7
Machine operators, assemblers, and inspectors .....	2,896	536	142	212	182	2,360	39.3	40.9
Transportation and material moving occupations .....	389	129	28	34	68	259	37.1	41.9
Handlers, equipment cleaners, helpers, and laborers .....	991	325	75	74	176	666	35.4	39.7

<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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
Total, 16 years and over .....	3,355	3,259	4.6	4.4	3,514	3,335	5.7	5.3
Married, spouse present .....	1,146	1,012	2.6	2.3	1,267	1,118	3.8	3.3
Widowed, divorced, or separated .....	430	451	5.2	5.2	798	694	6.5	5.4
Single (never married) .....	1,779	1,796	8.5	8.3	1,449	1,523	8.8	9.0
White, 16 years and over .....	2,437	2,358	3.9	3.7	2,475	2,352	4.8	4.5
Married, spouse present .....	944	810	2.5	2.1	1,090	934	3.7	3.2
Widowed, divorced, or separated .....	318	348	4.6	4.9	558	497	5.7	4.9
Single (never married) .....	1,175	1,200	6.9	6.8	827	922	6.7	7.3
Black, 16 years and over .....	778	700	10.4	9.2	899	844	11.2	10.1
Married, spouse present .....	144	131	4.2	3.8	121	126	4.6	4.9
Widowed, divorced, or separated .....	100	83	9.2	6.8	205	177	9.6	7.9
Single (never married) .....	534	485	18.1	16.3	573	541	17.8	15.5
Total, 25 years and over .....	2,117	1,990	3.5	3.2	2,370	2,285	4.6	4.3
Married, spouse present .....	1,074	946	2.5	2.2	1,135	1,031	3.6	3.2
Widowed, divorced, or separated .....	412	432	5.2	5.1	727	653	6.1	5.3
Single (never married) .....	631	611	5.9	5.4	508	602	6.4	7.3
White, 25 years and over .....	1,590	1,484	3.0	2.8	1,711	1,608	4.0	3.7
Married, spouse present .....	893	756	2.4	2.0	973	859	3.5	3.1
Widowed, divorced, or separated .....	302	331	4.5	4.8	505	459	5.4	4.7
Single (never married) .....	396	397	4.6	4.4	234	290	4.2	5.1
Black, 25 years and over .....	428	382	7.1	6.1	555	584	8.4	8.5
Married, spouse present .....	124	123	3.7	3.7	109	119	4.4	4.7
Widowed, divorced, or separated .....	100	84	9.4	6.9	187	174	9.0	7.9
Single (never married) .....	205	175	12.4	10.3	259	292	13.0	13.5

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

A-27. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
Total, 16 years and over <sup>1</sup> .....	6,868	6,594	5.1	4.8	4.6	4.4	5.7	5.3
Managerial and professional specialty .....	919	872	2.5	2.3	2.1	1.8	2.9	2.7
Executive, administrative, and managerial .....	391	350	2.1	1.8	2.0	1.5	2.3	2.2
Professional specialty .....	528	522	2.8	2.7	2.2	2.2	3.4	3.2
Technical, sales, and administrative support .....	1,736	1,674	4.4	4.2	3.1	3.2	5.1	4.7
Technicians and related support .....	104	95	2.5	2.2	2.3	1.8	2.7	2.5
Sales occupations .....	799	771	4.9	4.6	2.7	3.6	7.0	5.7
Administrative support, including clerical .....	833	807	4.4	4.2	4.4	3.3	4.3	4.5
Service occupations .....	1,299	1,204	6.9	6.3	6.3	5.6	7.3	6.7
Private household .....	67	80	7.0	8.5	( <sup>2</sup> )	( <sup>2</sup> )	7.2	8.7
Protective service .....	65	84	2.7	3.3	2.5	3.1	3.3	3.8
Service, except private household and protective .....	1,167	1,040	7.5	6.6	7.7	6.5	7.5	6.6
Precision production, craft, and repair .....	681	620	4.6	4.1	4.7	3.9	4.3	6.2
Mechanics and repairers .....	203	144	4.2	2.9	4.3	2.9	2.0	3.7
Construction trades .....	343	309	6.0	5.4	6.0	5.3	7.5	7.8
Other precision production, craft, and repair .....	135	167	3.2	3.9	2.9	3.1	4.3	6.5
Operators, fabricators, and laborers .....	1,443	1,420	7.3	7.0	6.6	6.5	9.4	8.6
Machine operators, assemblers, and inspectors .....	624	546	7.2	6.3	5.8	4.6	9.4	8.9
Transportation and material moving occupations .....	300	311	5.4	5.5	5.0	5.1	8.7	8.9
Handlers, equipment cleaners, helpers, and laborers .....	520	563	9.4	9.7	9.3	10.3	9.5	7.5
Construction laborers .....	126	133	12.3	12.8	11.9	12.5	( <sup>2</sup> )	( <sup>2</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	394	430	8.7	9.0	8.6	9.7	8.9	6.9
Farming, forestry, and fishing .....	190	209	4.6	5.2	4.1	5.1	6.4	5.3
No previous work experience .....	573	561	-	-	-	-	-	-
16 to 19 years .....	409	393	-	-	-	-	-	-
20 to 24 years .....	78	82	-	-	-	-	-	-
25 years and over .....	86	85	-	-	-	-	-	-

<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 reflect 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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
Total, 16 years and over .....	6,868	6,594	5.1	4.8	4.6	4.4	5.7	5.3
Nonagricultural private wage and salary workers .....	5,283	5,032	5.1	4.8	4.6	4.4	5.8	5.3
Mining .....	23	31	4.1	4.6	4.7	4.0	-	7.8
Construction .....	457	485	6.7	6.8	6.8	6.9	5.9	6.5
Manufacturing .....	936	830	4.4	3.9	3.9	3.2	5.6	5.3
Durable goods .....	465	419	3.7	3.4	3.5	2.7	4.3	5.1
Lumber and wood products .....	31	29	4.3	3.7	4.6	3.5	2.9	4.3
Furniture and fixtures .....	36	26	5.1	4.3	4.3	3.5	6.7	6.5
Stone, clay, and glass products .....	17	20	3.1	3.3	3.3	3.1	1.9	4.2
Primary metal industries .....	23	32	3.0	4.3	3.5	3.4	-	8.3
Fabricated metal products .....	66	37	4.7	2.8	4.6	2.6	5.0	3.5
Machinery and computing equipment .....	80	82	3.3	3.1	2.7	2.4	5.0	5.4
Electrical machinery, equipment, and supplies .....	52	64	2.6	3.3	2.5	2.6	2.9	4.3
Transportation equipment .....	97	60	3.9	2.6	3.8	2.3	4.3	3.4
Automobiles .....	45	46	3.1	3.4	3.4	3.6	1.9	2.7
Other transportation equipment .....	52	14	5.1	1.4	4.3	.6	7.9	4.3
Professional and photographic equipment .....	23	24	2.9	3.3	3.1	3.2	2.7	3.5
Other durable goods industries .....	42	45	6.4	6.2	4.9	2.7	8.5	11.2
Nondurable goods .....	470	412	5.4	4.6	4.5	3.9	6.8	5.5
Food and kindred products .....	131	121	6.9	6.7	5.3	7.0	9.9	6.2
Textile mill products .....	35	19	5.3	2.7	5.6	1.9	4.9	3.8
Apparel and other textile products .....	94	96	8.9	9.1	6.7	7.7	9.7	9.6
Paper and allied products .....	16	36	2.2	4.5	1.9	2.6	3.4	9.7
Printing and publishing .....	107	55	5.9	3.0	6.3	3.3	5.3	2.6
Chemicals and allied products .....	46	49	3.6	3.4	3.5	2.5	3.8	4.8
Rubber and miscellaneous plastics products .....	34	24	3.7	2.5	2.4	2.7	6.0	2.1
Other nondurable goods industries .....	9	13	2.7	3.3	2.1	3.0	3.8	4.4
Transportation and public utilities .....	295	282	4.1	3.8	4.0	3.2	4.2	5.3
Transportation .....	214	213	4.8	4.6	4.6	4.0	5.2	6.4
Communications and other public utilities .....	81	69	2.9	2.4	2.8	1.5	3.1	4.1
Wholesale and retail trade .....	1,646	1,615	6.2	6.0	5.2	5.2	7.2	6.9
Wholesale trade .....	185	191	3.8	3.9	3.1	3.2	5.3	5.5
Retail trade .....	1,461	1,424	6.7	6.5	5.9	5.9	7.4	7.0
Finance, insurance, and real estate .....	184	234	2.4	2.9	1.8	3.0	2.9	2.9
Service industries .....	1,742	1,555	5.3	4.6	4.6	4.3	5.8	4.8
Professional services .....	771	613	4.0	3.1	3.1	2.7	4.4	3.3
Other service industries .....	970	942	7.1	6.7	5.8	5.6	8.5	7.8
Agricultural wage and salary workers .....	130	144	6.1	6.7	5.7	6.8	7.5	6.5
Government, self-employed, and unpaid family workers .....	882	858	3.0	2.9	2.8	2.6	3.2	3.3
No previous work experience .....	573	561	-	-	-	-	-	-

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,868	6,594	2,665	2,571	2,966	2,811	1,237	1,212	4,912	4,711	1,677	1,544
Job losers and persons who completed temporary jobs .....	2,932	2,859	1,573	1,530	1,184	1,149	175	180	2,240	2,114	574	608
On temporary layoff .....	777	716	348	339	386	335	43	43	655	548	84	136
Not on temporary layoff .....	2,155	2,143	1,225	1,191	798	814	132	138	1,585	1,567	489	469
Permanent job losers .....	1,459	1,438	877	826	515	540	67	71	1,112	1,081	298	278
Persons who completed temporary jobs .....	696	705	348	364	283	274	65	66	473	485	191	191
Job leavers .....	808	958	327	389	385	412	96	157	633	739	154	168
Reentrants .....	2,556	2,217	719	595	1,279	1,140	558	481	1,721	1,539	730	579
New entrants .....	573	581	46	57	118	110	409	393	318	319	220	189
<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 .....	42.7	43.4	59.0	59.5	39.9	40.9	14.1	14.9	45.6	44.9	34.2	39.4
On temporary layoff .....	11.3	10.9	13.0	13.2	13.0	11.9	3.5	3.5	13.3	11.6	5.0	9.0
Not on temporary layoff .....	31.4	32.5	46.0	46.3	26.9	29.0	10.7	11.4	32.3	33.3	29.2	30.4
Job leavers .....	11.8	14.5	12.3	15.1	13.0	14.7	7.8	13.0	12.9	15.7	9.2	10.9
Reentrants .....	37.2	33.6	27.0	23.1	43.1	40.6	45.1	39.7	35.0	32.7	43.5	37.5
New entrants .....	8.3	8.5	1.7	2.2	4.0	3.9	33.1	32.4	6.5	6.8	13.1	12.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers and persons who completed temporary jobs .....	2.2	2.1	2.3	2.2	2.0	1.9	2.0	2.1	2.0	1.8	3.7	3.8
Job leavers .....	.8	.7	.5	.6	.7	.7	1.1	1.8	.6	.6	1.0	1.1
Reentrants .....	1.9	1.6	1.1	.9	2.2	1.9	6.5	5.5	1.5	1.3	4.7	3.6
New entrants .....	.4	.4	.1	.1	.2	.2	4.7	4.5	.3	.3	1.4	1.2

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	August 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 .....	6,594	100.0	36.5	35.2	28.3	11.8	16.4
Job losers and persons who completed temporary jobs .....	2,859	100.0	36.2	33.8	30.0	13.9	16.1
On temporary layoff .....	716	100.0	56.2	35.2	8.7	3.9	4.7
Not on temporary layoff .....	2,143	100.0	29.6	33.3	37.1	17.2	19.9
Permanent job losers .....	1,438	100.0	25.7	33.4	41.0	18.7	22.3
Persons who completed temporary jobs .....	705	100.0	37.6	33.1	29.3	14.3	15.0
Job leavers .....	958	100.0	49.8	29.7	20.5	9.6	11.0
Reentrants .....	2,217	100.0	34.8	34.7	30.5	11.2	19.3
New entrants .....	561	100.0	21.9	54.2	23.9	7.8	16.1
Men, 20 years and over .....	2,571	100.0	34.6	31.1	34.3	13.4	20.9
Job losers and persons who completed temporary jobs .....	1,530	100.0	37.3	30.0	32.7	13.5	19.3
On temporary layoff .....	339	100.0	66.4	24.6	9.0	4.9	4.1
Not on temporary layoff .....	1,191	100.0	29.0	31.5	39.5	15.9	23.6
Permanent job losers .....	826	100.0	26.3	31.0	42.8	16.1	26.7
Persons who completed temporary jobs .....	364	100.0	35.2	32.8	32.0	15.5	16.5
Job leavers .....	389	100.0	42.7	32.1	25.1	11.4	13.8
Reentrants .....	595	100.0	24.9	31.6	43.5	14.0	29.5
New entrants .....	57	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 20 years and over .....	2,811	100.0	37.0	34.1	28.9	12.8	16.1
Job losers and persons who completed temporary jobs .....	1,149	100.0	31.5	38.9	29.5	15.5	14.0
On temporary layoff .....	335	100.0	42.8	47.8	9.4	3.4	6.0
Not on temporary layoff .....	814	100.0	26.9	35.3	37.8	20.5	17.3
Permanent job losers .....	540	100.0	23.5	35.0	41.5	23.1	18.4
Persons who completed temporary jobs .....	274	100.0	33.7	35.9	30.5	15.4	15.1
Job leavers .....	412	100.0	49.0	27.4	23.6	11.0	12.6
Reentrants .....	1,140	100.0	39.5	31.3	29.2	11.1	18.0
New entrants .....	110	100.0	23.1	37.8	39.2	8.5	30.6
Both sexes, 16 to 19 years .....	1,212	100.0	39.5	46.5	14.0	6.2	7.8
Job losers and persons who completed temporary jobs .....	180	100.0	57.2	32.9	9.9	7.3	2.6
On temporary layoff .....	43	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not on temporary layoff .....	138	100.0	50.1	36.9	13.0	9.5	3.5
Permanent job losers .....	71	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Persons who completed temporary jobs .....	66	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Job leavers .....	157	100.0	69.4	29.4	1.1	1.2	-
Reentrants .....	481	100.0	36.1	46.5	17.4	7.7	9.7
New entrants .....	393	100.0	23.4	59.7	16.9	6.0	10.9

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

controls used in the household survey.

NOTE: Beginning in January 1997, data reflect revised population

**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	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
Total, 16 years and over .....	6,868	6,594	100.0	100.0	5,466	5,300	100.0	100.0
Less than 5 weeks .....	2,364	2,409	34.4	36.5	1,695	1,765	31.0	33.3
5 to 14 weeks .....	2,402	2,322	35.0	35.2	1,932	1,877	35.3	35.4
5 to 10 weeks .....	1,609	1,582	23.4	24.0	1,271	1,246	23.3	23.5
11 to 14 weeks .....	793	740	11.5	11.2	661	631	12.1	11.9
15 weeks and over .....	2,102	1,863	30.6	28.3	1,839	1,658	33.6	31.3
15 to 26 weeks .....	835	780	12.2	11.8	716	696	13.1	13.1
27 weeks and over .....	1,268	1,084	18.5	16.4	1,124	962	20.6	18.2
27 to 51 weeks .....	560	501	8.1	7.6	517	466	9.4	8.8
52 weeks and over .....	708	583	10.3	8.8	607	497	11.1	9.4
Average (mean) duration, in weeks .....	17.3	16.0	-	-	18.5	17.1	-	-
Median duration, in weeks .....	8.6	8.0	-	-	9.5	8.9	-	-

NOTE: Beginning in January 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	August 1997						Weeks	
	Thousands of persons					Average (mean) duration		
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over				
				Total	15 to 26 weeks	27 weeks and over		
<b>TOTAL</b>								
Total, 16 years and over .....	6,594	2,409	2,322	1,863	780	1,084	16.0	8.0
16 to 19 years .....	1,212	478	564	170	75	94	9.8	6.3
20 to 24 years .....	1,108	458	406	244	102	142	12.1	6.9
25 to 34 years .....	1,563	595	504	463	223	241	15.7	7.9
35 to 44 years .....	1,396	471	450	475	208	267	18.9	9.4
45 to 54 years .....	782	227	260	295	103	192	21.0	10.3
55 to 64 years .....	371	110	109	151	42	110	25.6	10.4
65 years and over .....	163	69	30	64	26	38	21.3	8.5
<b>Men, 16 years and over</b> .....	<b>3,259</b>	<b>1,147</b>	<b>1,130</b>	<b>982</b>	<b>388</b>	<b>594</b>	<b>17.0</b>	<b>8.5</b>
16 to 19 years .....	688	257	331	101	44	56	10.0	6.5
20 to 24 years .....	581	203	223	155	68	87	13.7	8.4
25 to 34 years .....	710	276	221	213	88	125	16.4	7.8
35 to 44 years .....	619	221	181	217	96	122	18.7	9.8
45 to 54 years .....	385	121	98	167	49	117	24.3	11.8
55 to 64 years .....	193	41	61	91	30	61	30.9	13.6
65 years and over .....	82	30	15	38	13	25	24.4	12.7
<b>Women, 16 years and over</b> .....	<b>3,335</b>	<b>1,261</b>	<b>1,192</b>	<b>881</b>	<b>391</b>	<b>490</b>	<b>15.0</b>	<b>7.5</b>
16 to 19 years .....	524	221	233	69	31	38	9.5	6.0
20 to 24 years .....	526	255	183	89	34	55	10.2	4.9
25 to 34 years .....	853	320	283	250	134	116	15.1	7.9
35 to 44 years .....	777	251	269	257	112	146	19.0	9.1
45 to 54 years .....	397	106	162	129	54	74	17.8	9.6
55 to 64 years .....	178	70	48	60	12	48	19.9	7.4
65 years and over .....	81	39	15	27	14	13	18.1	5.1
<b>Race</b>								
<b>White, 16 years and over</b> .....	<b>4,711</b>	<b>1,855</b>	<b>1,627</b>	<b>1,229</b>	<b>513</b>	<b>716</b>	<b>14.9</b>	<b>7.2</b>
Men .....	2,358	902	790	666	259	407	16.0	7.7
Women .....	2,352	953	837	563	254	309	13.7	6.8
<b>Black, 16 years and over</b> .....	<b>1,544</b>	<b>434</b>	<b>590</b>	<b>520</b>	<b>207</b>	<b>313</b>	<b>18.8</b>	<b>9.8</b>
Men .....	700	176	276	248	96	152	19.6	10.2
Women .....	844	258	314	272	111	162	18.1	9.4
<b>Marital status</b>								
<b>Men, 16 years and over:</b>								
Married, spouse present .....	1,012	321	295	396	137	259	21.9	10.6
Widowed, divorced, or separated .....	451	165	138	148	62	86	17.6	9.8
Single (never married) .....	1,796	661	697	438	189	248	14.1	7.5
<b>Women, 16 years and over:</b>								
Married, spouse present .....	1,118	428	405	285	139	146	14.3	7.6
Widowed, divorced, or separated .....	694	240	201	252	111	142	18.9	8.9
Single (never married) .....	1,523	593	586	344	142	203	13.8	6.9

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



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation and industry	August 1997							
	Thousands of persons						Weeks	
	Total	Less than 5 weeks	5 to 14 weeks	15 weeks and over			Average (mean) duration	Median duration
				Total	15 to 26 weeks	27 weeks and over		
<b>OCCUPATION</b>								
Managerial and professional specialty .....	872	331	256	285	119	166	17.3	8.3
Technical, sales, and administrative support .....	1,674	633	602	438	210	228	14.6	7.5
Service occupations .....	1,204	435	414	354	150	204	17.3	7.7
Precision production, craft, and repair .....	620	247	194	179	77	103	15.4	7.5
Operators, fabricators, and laborers .....	1,420	537	482	402	163	239	16.2	8.2
Farming, forestry, and fishing .....	209	88	68	53	14	38	15.7	6.8
<b>INDUSTRY<sup>1</sup></b>								
Agriculture .....	144	71	55	17	5	12	10.1	4.7
Construction .....	492	220	148	124	62	62	12.7	6.3
Manufacturing .....	850	259	304	287	105	182	18.7	10.1
Durable goods .....	438	151	129	158	57	102	20.1	10.0
Nondurable goods .....	412	108	175	129	49	80	17.3	10.2
Transportation and public utilities .....	315	118	112	85	48	37	15.2	7.8
Wholesale and retail trade .....	1,627	628	562	436	199	238	14.6	7.2
Finance, insurance, and real estate .....	250	63	75	112	47	65	21.0	13.1
Services .....	1,897	749	675	474	207	268	15.2	7.2
Public administration .....	145	58	16	70	21	49	28.3	12.8
No previous work experience .....	561	123	304	134	44	90	15.3	9.0

<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			
	Aug. 1996	Aug. 1997	16 to 24 years		25 to 54 years		55 years and over		Men		Women	
			Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
	Total not in the labor force .....	65,836	65,904	10,162	10,283	18,785	18,423	36,889	37,199	23,447	23,688	42,389
Do not want a job now <sup>1</sup> .....	60,171	60,874	8,204	8,503	16,013	15,943	35,954	36,428	21,329	21,790	38,842	39,085
Want a job <sup>1</sup> .....	5,666	5,030	1,958	1,780	2,772	2,479	935	771	2,118	1,899	3,547	3,132
Did not search for work in previous year .....	3,466	3,023	1,108	1,009	1,650	1,452	708	561	1,208	1,077	2,257	1,946
Searched for work in previous year <sup>2</sup> .....	2,200	2,007	850	770	1,123	1,027	227	210	910	822	1,290	1,185
Not available to work now .....	764	710	326	298	390	375	48	37	222	247	541	463
Available to work now .....	1,436	1,298	525	472	733	652	179	173	687	575	749	723
Reason not currently looking:												
Discouragement over job prospects <sup>3</sup> .....	415	311	137	98	202	172	76	41	256	175	159	136
Reasons other than discouragement .....	1,021	987	388	375	531	480	103	132	432	400	590	586
Family responsibilities .....	166	110	31	15	120	80	14	15	18	5	148	104
In school or training .....	129	167	105	113	22	54	2	-	77	76	52	91
Ill health or disability .....	103	85	15	10	71	38	17	37	39	27	64	58
Other <sup>4</sup> .....	624	625	237	238	317	307	70	80	298	292	326	333

<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>	
	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
<b>AGE</b>												
Total, 16 years and over <sup>2</sup> .....	7,525	7,583	5.9	5.8	4,089	4,123	5.9	5.8	3,436	3,460	5.9	5.8
16 to 19 years .....	423	423	5.7	5.6	176	161	4.6	4.1	246	262	6.9	7.2
20 years and over .....	7,103	7,160	5.9	5.8	3,913	3,962	6.0	5.9	3,190	3,198	5.8	5.7
20 to 24 years .....	771	712	6.2	5.6	366	379	5.5	5.5	404	333	7.0	5.7
25 years and over .....	6,332	6,448	5.8	5.8	3,547	3,583	6.0	6.0	2,786	2,865	5.7	5.7
25 to 54 years .....	5,659	5,741	6.1	6.1	3,148	3,181	6.2	6.2	2,511	2,560	5.9	5.9
55 years and over .....	673	707	4.4	4.5	398	402	4.6	4.5	275	305	4.1	4.4
55 to 64 years .....	555	592	4.7	4.8	318	329	4.9	4.8	237	263	4.5	4.8
65 years and over .....	117	115	3.2	3.2	80	73	3.7	3.4	38	42	2.5	2.9
<b>RACE AND HISPANIC ORIGIN</b>												
White .....	6,597	6,554	6.1	5.9	3,568	3,541	6.0	5.8	3,029	3,013	6.2	6.0
Black .....	696	754	5.0	5.2	423	438	6.3	6.3	273	315	3.8	4.2
Hispanic origin .....	380	452	3.2	3.5	229	277	3.2	3.5	151	175	3.3	3.4
<b>MARITAL STATUS</b>												
Married, spouse present .....	4,252	4,172	5.7	5.5	2,583	2,596	6.1	6.1	1,669	1,576	5.2	4.9
Widowed, divorced, or separated .....	1,144	1,290	5.9	6.4	409	460	5.2	5.8	735	830	6.4	6.9
Single (never married) .....	2,129	2,122	6.3	6.0	1,097	1,068	5.7	5.4	1,032	1,054	8.9	6.8
<b>FULL- OR PART-TIME STATUS</b>												
Primary job full time, secondary job part time .....	4,252	4,313	-	-	2,528	2,584	-	-	1,724	1,730	-	-
Primary and secondary jobs both part time .....	1,514	1,437	-	-	513	447	-	-	1,001	990	-	-
Primary and secondary jobs both full time .....	245	258	-	-	192	181	-	-	53	97	-	-
Hours vary on primary or secondary job .....	1,477	1,528	-	-	848	909	-	-	630	618	-	-

<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.

**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							
	Aug. 1996	Aug. 1997	Total		Employed		Unemployed			
			Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997	Number		Percent of labor force	
							Aug. 1996	Aug. 1997	Aug. 1996	Aug. 1997
<b>VIETNAM-ERA VETERANS</b>										
Total, 40 years and over .....	7,709	7,773	6,572	6,575	6,372	6,378	200	197	3.0	3.0
40 to 54 years .....	8,403	8,226	5,780	5,590	5,600	5,410	180	180	3.1	3.2
40 to 44 years .....	1,192	965	1,074	878	1,032	836	42	41	3.9	4.7
45 to 49 years .....	2,961	2,844	2,894	2,374	2,614	2,305	81	69	3.0	2.9
50 to 54 years .....	2,250	2,617	2,011	2,338	1,954	2,268	57	70	2.8	3.0
55 years and over .....	1,306	1,547	793	985	772	969	20	16	2.6	1.7
<b>NONVETERANS</b>										
Total, 40 to 54 years .....	18,426	19,596	16,809	17,788	16,290	17,334	519	454	3.1	2.6
40 to 44 years .....	8,593	9,036	8,007	8,361	7,747	8,133	260	228	3.2	2.7
45 to 49 years .....	5,958	6,251	5,454	5,680	5,281	5,531	173	148	3.2	2.6
50 to 54 years .....	3,875	4,309	3,348	3,748	3,263	3,670	86	78	2.6	2.1

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

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



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.18	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	8.88	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
Monthly data, not seasonally adjusted									
<b>1996:</b>									
August .....	34.8	\$11.76	\$409.25	45.3	\$15.51	\$702.60	39.9	\$15.57	\$621.24
September .....	34.9	11.95	417.06	45.9	15.73	722.01	39.7	15.75	625.28
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 <sup>a</sup> .....	34.8	12.15	422.82	45.1	16.02	722.50	40.1	15.99	641.20
August <sup>a</sup> .....	35.0	12.19	426.65	45.0	15.97	718.65	39.7	16.09	638.77

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
	Annual averages									
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.08
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.66
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.90
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.86
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.42
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	167.86	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	38.6	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	402.46	38.3	8.06	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	436.13	38.5	8.86	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
	Monthly data, not seasonally adjusted									
<b>1996:</b>										
August .....	41.8	\$12.79	\$12.11	\$534.62	40.0	\$14.48	\$579.20	38.4	\$12.85	\$493.44
September .....	42.3	12.90	12.17	545.67	40.3	14.57	587.17	38.6	13.03	502.96
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	12.36	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	13.28	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 <sup>a</sup> .....	41.3	13.12	12.43	541.86	39.5	14.95	590.53	38.4	13.36	513.02
August <sup>b</sup> .....	42.0	13.17	12.42	553.14	40.4	14.84	603.58	38.5	13.45	517.83

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>									
August .....	29.5	\$7.95	\$234.53	35.7	\$12.71	\$453.75	32.7	\$11.63	\$380.30
September .....	29.1	8.06	234.55	36.5	12.89	470.49	32.6	11.89	387.61
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 <sup>p</sup> .....	29.6	8.26	244.50	35.9	13.14	471.73	32.8	12.07	395.90
August <sup>p</sup> .....	29.8	8.28	246.74	36.0	13.24	476.64	32.9	12.11	398.42

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

<sup>p</sup> = preliminary.  
NOTE: Establishment survey estimates are currently projected from March 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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>a</sup>	Aug. <sup>a</sup>
<b>Total</b> .....	119,983	120,019	120,248	120,450	120,659	120,909	121,162	121,344	121,671	121,634	122,056	122,421	122,470
<b>Total private</b> .....	100,433	100,506	100,759	100,956	101,145	101,380	101,615	101,799	102,092	102,269	102,417	102,694	102,671
<b>Goods-producing</b> .....	24,468	24,439	24,479	24,508	24,540	24,581	24,653	24,670	24,667	24,702	24,714	24,696	24,751
<b>Mining</b> .....	574	571	570	571	571	574	574	572	573	576	574	573	571
Metal mining .....	54	54	54	54	54	55	54	54	54	54	54	54	54
Coal mining .....	96	95	95	94	94	94	93	93	93	93	92	91	91
Oil and gas extraction .....	318	316	315	316	316	317	319	317	319	321	320	320	319
Nonmetallic minerals, except fuels .....	106	106	106	107	107	108	108	108	107	108	108	108	107
<b>Construction</b> .....	5,433	5,441	5,467	5,495	5,521	5,542	5,604	5,609	5,599	5,628	5,622	5,622	5,632
General building contractors .....	1,261	1,259	1,265	1,272	1,281	1,287	1,298	1,298	1,297	1,300	1,302	1,307	1,307
Heavy construction, except building .....	774	771	771	773	772	774	791	777	767	777	766	760	763
Special trade contractors .....	3,398	3,411	3,431	3,450	3,468	3,481	3,515	3,534	3,535	3,551	3,554	3,555	3,562
<b>Manufacturing</b> .....	18,461	18,427	18,442	18,442	18,448	18,465	18,475	18,489	18,495	18,498	18,518	18,501	18,548
<b>Durable goods</b> .....	10,788	10,771	10,780	10,791	10,803	10,821	10,836	10,848	10,856	10,864	10,891	10,901	10,951
Lumber and wood products .....	783	782	785	787	788	789	793	797	799	800	797	797	798
Furniture and fixtures .....	502	503	503	504	505	506	507	507	506	508	508	509	505
Stone, clay, and glass products .....	540	541	542	541	543	543	543	542	541	540	538	541	540
Primary metal industries .....	712	711	707	708	707	708	708	709	710	708	709	708	717
Fabricated metal products .....	1,451	1,452	1,455	1,457	1,458	1,460	1,462	1,463	1,468	1,468	1,470	1,466	1,470
Industrial machinery and equipment .....	2,114	2,108	2,115	2,115	2,119	2,126	2,132	2,136	2,142	2,146	2,152	2,153	2,165
Computer and office equipment .....	364	364	364	365	366	367	370	372	375	378	379	381	385
Electronic and other electrical equipment .....	1,654	1,652	1,650	1,649	1,647	1,645	1,645	1,645	1,643	1,644	1,651	1,659	1,665
Electronic components and accessories .....	612	610	609	609	609	610	612	614	618	622	628	633	639
Transportation equipment .....	1,791	1,783	1,783	1,790	1,793	1,802	1,804	1,810	1,804	1,809	1,824	1,822	1,849
Motor vehicles and equipment .....	968	965	959	960	961	966	964	969	957	960	967	962	978
Aircraft and parts .....	459	461	470	475	479	483	487	491	495	498	505	510	514
Instruments and related products .....	855	854	855	854	856	854	854	853	855	854	856	857	855
Miscellaneous manufacturing .....	386	385	385	386	387	388	388	386	388	387	386	389	387
<b>Nondurable goods</b> .....	7,673	7,656	7,662	7,651	7,645	7,644	7,639	7,641	7,639	7,634	7,627	7,600	7,597
Food and kindred products .....	1,685	1,682	1,684	1,688	1,689	1,695	1,694	1,698	1,699	1,693	1,692	1,683	1,681
Tobacco products .....	40	41	42	42	42	41	42	42	41	41	41	41	39
Textile mill products .....	621	618	620	616	615	615	612	612	609	609	607	607	604
Apparel and other textile products .....	857	853	849	844	840	835	831	827	822	818	816	810	806
Paper and allied products .....	678	678	679	679	678	678	678	677	677	677	675	674	675
Printing and publishing .....	1,537	1,536	1,539	1,535	1,534	1,534	1,534	1,535	1,541	1,546	1,550	1,549	1,548
Chemicals and allied products .....	1,032	1,029	1,029	1,028	1,028	1,028	1,028	1,028	1,029	1,030	1,027	1,023	1,025
Petroleum and coal products .....	142	141	141	141	140	139	139	140	140	139	138	138	138
Rubber and misc. plastics products .....	986	984	985	985	985	985	987	988	988	988	989	985	991
Leather and leather products .....	95	94	94	93	94	94	94	94	93	93	92	90	90
<b>Service-producing</b> .....	95,515	95,580	95,769	95,942	96,119	96,328	96,509	96,674	97,004	97,132	97,342	97,725	97,719
<b>Transportation and public utilities</b> .....	6,299	6,290	6,293	6,303	6,288	6,351	6,376	6,405	6,421	6,431	6,434	6,453	6,293
Transportation .....	4,075	4,066	4,072	4,078	4,065	4,121	4,142	4,164	4,179	4,187	4,193	4,210	4,057
Railroad transportation .....	230	230	230	229	228	228	227	226	225	226	230	229	226
Local and interurban passenger transit .....	448	444	445	447	449	452	453	455	460	458	457	463	460
Trucking and warehousing .....	1,656	1,651	1,648	1,649	1,642	1,656	1,664	1,671	1,676	1,687	1,686	1,693	1,705
Water transportation .....	174	173	173	173	173	175	175	175	177	176	178	178	181
Transportation by air .....	1,134	1,134	1,140	1,142	1,133	1,168	1,178	1,191	1,192	1,192	1,192	1,196	1,032
Pipelines, except natural gas .....	14	14	14	14	14	14	14	14	14	14	14	14	14
Transportation services .....	419	420	422	424	426	428	431	432	435	434	436	437	439
Communications and public utilities .....	2,224	2,224	2,221	2,225	2,223	2,230	2,234	2,241	2,242	2,244	2,241	2,243	2,236
Communications .....	1,344	1,345	1,343	1,347	1,347	1,354	1,358	1,364	1,369	1,372	1,372	1,374	1,371
Electric, gas, and sanitary services .....	880	879	878	878	876	876	876	877	873	872	869	869	865
<b>Wholesale trade</b> .....	6,497	6,513	6,538	6,549	6,559	6,570	6,593	6,611	6,622	6,630	6,634	6,664	6,672
Durable goods .....	3,816	3,826	3,837	3,847	3,855	3,863	3,879	3,889	3,900	3,909	3,917	3,938	3,952
Nondurable goods .....	2,681	2,687	2,701	2,702	2,704	2,707	2,714	2,722	2,722	2,721	2,717	2,726	2,720

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>p</sup>	Aug. <sup>p</sup>
<b>Retail trade</b> .....	21,692	21,718	21,791	21,847	21,912	21,917	21,922	21,945	22,029	22,026	22,079	22,150	22,181
Building materials and garden supplies	896	901	905	909	914	914	918	922	931	932	928	930	930
General merchandise stores	2,737	2,739	2,756	2,761	2,769	2,757	2,752	2,783	2,799	2,787	2,798	2,805	2,820
Department stores	2,401	2,403	2,416	2,418	2,425	2,420	2,416	2,452	2,446	2,452	2,450	2,461	2,471
Food stores	3,445	3,445	3,458	3,467	3,468	3,474	3,477	3,478	3,480	3,482	3,487	3,502	3,501
Automotive dealers and service stations	2,284	2,289	2,295	2,300	2,304	2,307	2,311	2,315	2,319	2,316	2,315	2,316	2,325
New and used car dealers	1,038	1,040	1,043	1,045	1,048	1,051	1,053	1,055	1,055	1,054	1,056	1,055	1,058
Apparel and accessory stores	1,101	1,101	1,107	1,107	1,106	1,107	1,103	1,104	1,105	1,099	1,097	1,095	1,098
Furniture and home furnishings stores	994	998	1,003	1,010	1,021	1,020	1,022	1,025	1,026	1,032	1,034	1,041	1,045
Eating and drinking places	7,510	7,509	7,516	7,530	7,551	7,552	7,556	7,525	7,571	7,572	7,595	7,632	7,622
Miscellaneous retail establishments	2,725	2,736	2,751	2,763	2,779	2,786	2,783	2,793	2,798	2,806	2,825	2,829	2,840
<b>Finance, insurance, and real estate</b> .....	6,917	8,925	8,941	6,949	6,962	6,971	6,980	6,992	7,019	7,029	7,034	7,054	7,065
Finance	3,313	3,317	3,330	3,334	3,343	3,351	3,355	3,366	3,381	3,389	3,394	3,401	3,411
Depository institutions	2,022	2,023	2,028	2,029	2,030	2,032	2,034	2,037	2,041	2,043	2,044	2,045	2,046
Commercial banks	1,466	1,468	1,472	1,473	1,475	1,478	1,479	1,482	1,486	1,488	1,487	1,488	1,490
Savings institutions	262	259	259	257	256	255	255	254	253	253	254	253	252
Nondepository institutions	523	525	528	530	532	533	530	534	539	542	543	545	548
Mortgage bankers and brokers	234	235	236	238	240	239	241	242	243	244	243	243	245
Security and commodity brokers	557	558	562	564	568	572	576	579	583	586	586	592	596
Holding and other investment offices	211	211	212	211	213	214	215	216	218	218	221	219	221
Insurance	2,217	2,220	2,219	2,220	2,221	2,218	2,219	2,217	2,221	2,222	2,226	2,229	2,231
Insurance carriers	1,510	1,510	1,508	1,507	1,507	1,505	1,503	1,500	1,502	1,503	1,506	1,509	1,511
Insurance agents, brokers, and service	707	710	711	713	714	713	716	717	719	719	720	720	720
Real estate	1,387	1,388	1,392	1,395	1,398	1,402	1,406	1,409	1,417	1,418	1,414	1,424	1,423
<b>Services<sup>1</sup></b> .....	34,560	34,621	34,717	34,800	34,884	34,990	35,091	35,176	35,334	35,451	35,522	35,677	35,709
Agricultural services	631	630	635	639	638	647	649	648	664	669	668	675	677
Hotels and other lodging places	1,718	1,722	1,726	1,731	1,738	1,743	1,746	1,746	1,756	1,752	1,744	1,749	1,748
Personal services	1,187	1,189	1,193	1,194	1,194	1,195	1,197	1,196	1,193	1,189	1,182	1,184	1,188
Business services	7,330	7,354	7,379	7,398	7,437	7,476	7,521	7,577	7,594	7,618	7,645	7,674	7,667
Services to buildings	898	898	899	896	895	893	897	896	902	903	903	900	893
Personnel supply services	2,899	2,706	2,711	2,706	2,721	2,743	2,758	2,787	2,752	2,744	2,748	2,763	2,744
Help supply services	2,392	2,398	2,398	2,391	2,406	2,427	2,432	2,457	2,419	2,409	2,407	2,420	2,404
Computer and data processing services	1,218	1,226	1,238	1,246	1,256	1,268	1,278	1,291	1,306	1,322	1,337	1,346	1,356
Auto repair, services, and parking	1,094	1,097	1,104	1,107	1,112	1,117	1,123	1,126	1,132	1,136	1,131	1,138	1,139
Miscellaneous repair services	376	377	376	380	380	380	379	380	382	384	386	387	388
Motion pictures	526	530	529	528	530	530	532	529	528	528	537	538	546
Amusement and recreation services	1,474	1,471	1,478	1,481	1,483	1,490	1,495	1,494	1,503	1,542	1,561	1,574	1,556
Health services	9,493	9,514	9,532	9,552	9,567	9,586	9,600	9,612	9,644	9,673	9,673	9,694	9,715
Offices and clinics of medical doctors	1,687	1,891	1,695	1,700	1,703	1,713	1,720	1,721	1,728	1,740	1,740	1,744	1,742
Nursing and personal care facilities	1,737	1,739	1,742	1,745	1,747	1,750	1,751	1,753	1,780	1,764	1,761	1,763	1,765
Hospitals	3,813	3,823	3,829	3,834	3,839	3,841	3,846	3,852	3,857	3,864	3,869	3,876	3,887
Home health care facilities	667	668	670	674	673	677	678	678	684	682	682	685	685
Legal services	933	933	936	939	940	942	943	946	951	952	953	957	960
Educational services	2,031	2,022	2,035	2,041	2,040	2,042	2,046	2,047	2,062	2,062	2,074	2,085	2,074
Social services	2,415	2,421	2,422	2,425	2,426	2,432	2,438	2,445	2,458	2,466	2,474	2,492	2,507
Child day care services	572	573	576	576	575	578	579	580	581	587	590	592	597
Residential care	677	678	679	681	683	684	686	690	694	695	698	701	705
Museums and botanical and zoological gardens	85	85	86	86	87	87	87	87	87	88	88	88	88
Membership organizations	2,191	2,188	2,189	2,190	2,191	2,192	2,192	2,193	2,199	2,201	2,202	2,210	2,207
Engineering and management services	2,860	2,872	2,882	2,894	2,906	2,916	2,927	2,934	2,965	2,971	2,988	3,015	3,032
Engineering and architectural services	841	845	848	852	854	857	862	866	869	869	877	878	882
Management and public relations	879	886	892	904	911	913	919	923	936	941	950	962	973
<b>Government</b> .....	19,550	19,513	19,489	19,494	19,514	19,529	19,547	19,545	19,579	19,565	19,639	19,727	19,799
Federal	2,743	2,740	2,732	2,732	2,728	2,723	2,716	2,709	2,708	2,703	2,694	2,689	2,691
Federal, except Postal Service	1,889	1,884	1,879	1,874	1,870	1,862	1,861	1,856	1,856	1,851	1,843	1,839	1,834
State	4,637	4,640	4,618	4,620	4,621	4,621	4,624	4,622	4,635	4,636	4,640	4,672	4,677
Education	1,937	1,941	1,922	1,925	1,927	1,928	1,931	1,929	1,938	1,943	1,950	1,971	1,959
Other State government	2,700	2,699	2,696	2,695	2,694	2,693	2,693	2,693	2,697	2,693	2,690	2,701	2,718
Local	12,170	12,133	12,139	12,142	12,165	12,185	12,207	12,214	12,236	12,226	12,305	12,366	12,431
Education	6,837	6,796	6,797	6,807	6,815	6,831	6,849	6,853	6,858	6,850	6,902	6,959	7,008
Other local government	5,333	5,337	5,342	5,335	5,350	5,354	5,358	5,361	5,378	5,376	5,403	5,407	5,423

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

<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  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1996							1997					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Total</b> .....	57,795	57,924	58,057	58,118	58,242	58,340	58,464	58,539	58,618	58,740	58,904	58,987	59,125
<b>Total private</b> .....	47,094	47,198	47,268	47,338	47,473	47,564	47,661	47,729	47,791	47,907	48,048	48,130	48,215
<b>Goods-producing</b> .....	6,616	6,618	6,613	6,604	6,612	6,613	6,619	6,621	6,618	6,622	6,632	6,634	6,651
<b>Mining</b> .....	80	79	78	78	78	78	78	78	78	78	78	79	79
<b>Construction</b> .....	604	607	608	607	610	613	615	616	618	619	624	628	629
<b>Manufacturing</b> .....	5,932	5,932	5,927	5,919	5,924	5,922	5,926	5,927	5,922	5,925	5,930	5,927	5,943
<b>Durable goods</b> .....	2,836	2,837	2,841	2,838	2,842	2,845	2,849	2,856	2,857	2,861	2,867	2,868	2,884
Lumber and wood products .....	134	134	135	135	136	136	136	137	137	137	138	138	138
Furniture and fixtures .....	157	158	158	158	157	158	158	158	158	159	159	160	160
Stone, clay, and glass products .....	102	101	101	101	102	101	102	102	102	102	102	101	101
Primary metal industries .....	102	100	101	101	101	101	101	102	102	103	102	101	103
Fabricated metal products .....	317	319	319	320	321	321	322	323	322	322	324	324	326
Industrial machinery and equipment .....	456	457	457	456	458	459	461	463	465	467	469	471	473
Electronic and other electrical equipment .....	684	685	683	682	680	680	679	678	677	677	677	677	681
Transportation equipment .....	362	362	366	365	367	369	370	373	374	376	377	378	384
Instruments and related products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Miscellaneous manufacturing .....	172	172	172	171	171	171	171	172	172	171	171	171	171
<b>Nondurable goods</b> .....	3,096	3,095	3,086	3,081	3,082	3,077	3,077	3,071	3,065	3,064	3,063	3,059	3,059
Food and kindred products .....	554	551	553	553	554	555	557	558	557	558	558	557	558
Tobacco products .....	13	13	12	13	13	13	13	13	13	13	12	13	12
Textile mill products .....	291	290	289	287	288	287	288	287	286	286	285	285	285
Apparel and other textile products .....	643	647	635	634	632	628	625	621	617	614	611	605	603
Paper and allied products .....	164	164	164	164	164	164	165	164	164	164	164	164	164
Printing and publishing .....	693	693	695	693	694	693	692	691	691	690	694	696	700
Chemicals and allied products .....	327	327	327	326	327	326	326	326	326	327	327	327	327
Petroleum and coal products .....	24	24	24	25	24	25	25	25	25	25	25	25	24
Rubber and misc. plastics products .....	333	334	335	335	335	335	335	335	336	336	337	337	337
Leather and leather products .....	54	52	52	51	51	51	51	51	50	51	50	50	49
<b>Service-producing</b> .....	51,179	51,306	51,444	51,514	51,630	51,727	51,845	51,918	52,000	52,118	52,272	52,353	52,474
<b>Transportation and public utilities</b> .....	1,913	1,918	1,920	1,920	1,916	1,921	1,905	1,927	1,931	1,936	1,941	1,944	1,943
<b>Wholesale trade</b> .....	1,993	1,997	2,005	2,013	2,019	2,023	2,025	2,033	2,036	2,043	2,045	2,049	2,050
<b>Retail trade</b> .....	11,378	11,409	11,420	11,436	11,485	11,513	11,550	11,536	11,523	11,562	11,603	11,609	11,633
<b>Finance, insurance, and real estate</b> .....	4,351	4,359	4,362	4,368	4,377	4,383	4,392	4,395	4,400	4,406	4,418	4,429	4,437
<b>Services</b> .....	20,843	20,897	20,948	20,997	21,064	21,111	21,170	21,217	21,283	21,338	21,409	21,465	21,501
<b>Government</b> .....	10,701	10,726	10,789	10,780	10,769	10,776	10,803	10,810	10,827	10,833	10,856	10,857	10,910
Federal .....	1,163	1,161	1,158	1,156	1,155	1,157	1,165	1,155	1,151	1,149	1,147	1,147	1,144
State .....	2,334	2,335	2,339	2,340	2,340	2,342	2,342	2,341	2,348	2,350	2,354	2,364	2,368
Local .....	7,204	7,230	7,292	7,284	7,274	7,277	7,296	7,314	7,328	7,334	7,355	7,346	7,398

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

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-5. Production or nonsupervisory workers<sup>1</sup> on private 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 <sup>P</sup>	Aug. <sup>P</sup>
<b>Total private</b> .....	82,297	82,353	82,586	82,726	82,892	83,043	83,318	83,476	83,664	83,865	83,965	84,214	84,084
<b>Goods-producing</b> .....	17,382	17,362	17,385	17,420	17,451	17,495	17,578	17,561	17,542	17,592	17,573	17,563	17,599
<b>Mining</b> .....	427	425	425	427	427	430	432	432	432	437	435	434	433
<b>Construction</b> .....	4,206	4,214	4,229	4,256	4,281	4,307	4,384	4,358	4,336	4,365	4,347	4,348	4,355
<b>Manufacturing</b> .....	12,749	12,723	12,731	12,737	12,743	12,758	12,762	12,771	12,774	12,790	12,791	12,781	12,811
<b>Durable goods</b> .....	7,389	7,372	7,379	7,390	7,398	7,417	7,427	7,437	7,440	7,454	7,466	7,475	7,521
Lumber and wood products .....	644	641	646	648	650	652	652	656	658	659	656	655	656
Furniture and fixtures .....	398	398	397	398	399	400	401	402	402	403	404	405	403
Stone, clay, and glass products .....	421	421	423	422	423	423	424	422	420	420	419	422	422
Primary metal industries .....	555	554	552	552	552	553	553	553	553	553	555	554	562
Fabricated metal products .....	1,092	1,093	1,094	1,096	1,097	1,099	1,101	1,103	1,107	1,107	1,109	1,105	1,111
Industrial machinery and equipment .....	1,319	1,314	1,319	1,320	1,324	1,331	1,336	1,342	1,349	1,350	1,354	1,354	1,360
Electronic and other electrical equipment .....	1,052	1,049	1,046	1,045	1,043	1,042	1,043	1,043	1,041	1,040	1,043	1,048	1,058
Transportation equipment .....	1,215	1,209	1,209	1,216	1,216	1,222	1,222	1,225	1,220	1,231	1,234	1,240	1,261
Motor vehicles and equipment .....	764	762	757	758	759	762	759	761	752	758	766	765	779
Instruments and related products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Miscellaneous manufacturing .....	271	271	271	271	272	273	273	271	271	272	271	272	271
<b>Nondurable goods</b> .....	5,360	5,351	5,352	5,347	5,345	5,341	5,335	5,334	5,334	5,336	5,325	5,306	5,290
Food and kindred products .....	1,247	1,246	1,249	1,252	1,256	1,260	1,257	1,261	1,263	1,257	1,256	1,247	1,245
Tobacco products .....	31	32	32	33	32	32	32	32	31	31	31	32	30
Textile mill products .....	525	524	525	522	522	522	519	519	517	516	515	515	512
Apparel and other textile products .....	701	698	694	690	686	683	680	675	671	670	667	664	654
Paper and allied products .....	515	516	517	517	517	517	517	516	516	517	515	514	514
Printing and publishing .....	839	837	838	837	836	834	834	834	839	846	847	846	842
Chemicals and allied products .....	572	571	570	569	568	567	567	567	567	568	566	566	567
Petroleum and coal products .....	92	92	92	92	92	91	92	92	92	92	91	91	91
Rubber and misc. plastics products .....	765	763	763	764	763	763	765	766	767	768	767	763	767
Leather and leather products .....	73	72	72	71	73	72	72	72	71	71	70	68	68
<b>Service-producing</b> .....	64,915	64,991	65,201	65,306	65,441	65,548	65,740	65,915	66,122	66,273	66,392	66,651	66,485
<b>Transportation and public utilities</b> .....	5,299	5,297	5,302	5,308	5,298	5,349	5,372	5,397	5,412	5,420	5,421	5,427	5,243
<b>Wholesale trade</b> .....	5,248	5,263	5,284	5,292	5,298	5,307	5,323	5,340	5,339	5,348	5,347	5,364	5,364
<b>Retail trade</b> .....	19,072	19,094	19,180	19,216	19,277	19,282	19,298	19,338	19,384	19,398	19,434	19,491	19,504
<b>Finance, insurance, and real estate</b> .....	5,049	5,055	5,066	5,069	5,077	5,088	5,099	5,103	5,124	5,135	5,137	5,152	5,156
<b>Services</b> .....	30,247	30,282	30,369	30,421	30,491	30,522	30,648	30,737	30,863	30,972	31,053	31,217	31,218

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

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

components, cannot be separated with sufficient precision.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Private nonfarm payrolls, 356 industries<sup>1</sup></b>												
<b>Over 1-month span:</b>												
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	<sup>P</sup> 58.8	<sup>P</sup> 57.7				
<b>Over 3-month span:</b>												
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 .....	62.8	63.6	62.6	61.2	62.1	83.1	62.6	58.8	62.8	60.4	64.7	65.0
1997 .....	64.6	62.2	84.2	65.6	59.7	<sup>P</sup> 58.7	<sup>P</sup> 58.3					
<b>Over 6-month span:</b>												
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	<sup>P</sup> 64.0	<sup>P</sup> 63.9							
<b>Over 12-month span:</b>												
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 .....	<sup>P</sup> 66.7	<sup>P</sup> 65.2										
<b>Manufacturing payrolls, 139 industries<sup>1</sup></b>												
<b>Over 1-month span:</b>												
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	<sup>P</sup> 49.3	<sup>P</sup> 50.7				
<b>Over 3-month span:</b>												
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	<sup>P</sup> 47.8	<sup>P</sup> 48.2					
<b>Over 6-month span:</b>												
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	56.6	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	<sup>P</sup> 47.5	<sup>P</sup> 49.6							
<b>Over 12-month span:</b>												
1993 .....	56.8	57.9	55.8	58.8	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 .....	<sup>P</sup> 50.7	<sup>P</sup> 47.1										

<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.

<sup>P</sup> = 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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>1</sup>
	Total <sup>1</sup>												
Alabama .....	1,825.5	1,828.7	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	1,843.9
Alaska .....	264.5	263.4	262.8	262.9	262.8	263.0	262.6	262.6	263.2	264.4	265.4	265.1	266.2
Arizona .....	1,895.8	1,915.3	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	1,975.7
Arkansas .....	1,084.0	1,088.3	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	1,095.1
California .....	12,793.0	12,825.6	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	13,154.5
Colorado .....	1,897.2	1,909.5	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	1,937.4
Connecticut .....	1,588.0	1,591.9	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	1,621.0
Delaware .....	378.9	378.2	378.6	379.3	380.3	382.1	381.5	383.9	385.0	386.1	387.6	388.1	388.1
District of Columbia .....	622.6	622.3	620.7	619.7	619.0	620.7	618.0	621.3	619.6	615.8	613.2	614.9	617.7
Florida .....	6,188.0	6,202.7	6,228.7	6,237.6	6,268.2	6,283.3	6,297.4	6,316.7	6,330.6	6,358.5	6,384.0	6,399.1	6,405.2
Georgia .....	3,594.7	3,539.3	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	3,601.9
Hawaii .....	528.1	529.4	528.4	529.2	526.8	528.2	532.3	530.9	528.8	529.0	528.1	528.1	527.3
Idaho .....	493.2	495.4	494.1	497.7	497.7	498.0	497.2	499.0	500.5	501.3	503.5	501.2	503.6
Illinois .....	5,692.0	5,699.9	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	5,754.8
Indiana .....	2,797.8	2,819.7	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	2,839.7
Iowa .....	1,377.5	1,381.9	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	1,404.5
Kansas .....	1,221.3	1,226.6	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	1,265.7
Kentucky .....	1,673.7	1,676.9	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
Louisiana .....	1,810.1	1,815.4	1,819.4	1,824.2	1,827.6	1,829.6	1,828.2	1,831.0	1,833.1	1,837.9	1,835.8	1,839.2	1,837.0
Maine .....	538.8	539.8	542.1	541.0	541.2	540.8	545.2	545.7	546.5	546.3	546.4	548.0	549.5
Maryland .....	2,214.2	2,213.5	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	2,254.4
Massachusetts .....	3,043.9	3,050.3	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	3,114.2
Michigan .....	4,328.1	4,357.9	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	4,398.8
Minnesota .....	2,436.8	2,440.1	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	2,487.8
Mississippi .....	1,094.6	1,097.6	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	1,101.0
Missouri .....	2,555.1	2,563.4	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	2,598.8
Montana .....	357.1	357.9	357.4	360.8	362.9	360.6	359.6	361.5	362.3	363.1	365.1	364.4	364.3
Nebraska .....	831.8	834.6	835.3	839.2	843.0	843.4	846.6	848.6	852.5	848.7	847.5	848.7	852.1
Nevada .....	846.7	851.2	856.9	859.3	869.4	869.9	874.1	879.4	882.8	886.8	890.6	898.3	899.0
New Hampshire .....	566.7	566.3	563.3	565.9	565.6	566.6	566.1	566.4	568.0	568.0	572.8	574.4	579.0
New Jersey .....	3,648.0	3,651.5	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	3,704.4
New Mexico .....	695.8	695.5	695.0	696.4	698.2	700.6	699.0	700.1	701.1	701.6	702.8	707.8	707.5
New York .....	7,921.7	7,927.7	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	8,016.7
North Carolina .....	3,547.9	3,554.0	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	3,631.7
North Dakota .....	308.6	309.4	310.4	310.3	312.0	312.5	312.6	314.3	314.0	312.6	315.3	318.0	317.1
Ohio .....	5,303.4	5,317.9	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	5,351.2
Oklahoma .....	1,351.9	1,360.4	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	1,390.5
Oregon .....	1,477.9	1,483.6	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	1,532.5
Pennsylvania .....	5,318.4	5,328.8	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	5,426.1
Rhode Island .....	439.9	443.2	445.1	444.2	445.8	445.6	442.6	442.5	444.1	444.9	445.1	444.3	443.5
South Carolina .....	1,678.7	1,680.3	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	1,706.1
South Dakota .....	348.7	349.9	350.0	350.2	351.1	351.4	350.1	351.8	349.9	349.5	354.4	352.4	354.8
Tennessee .....	2,522.6	2,534.6	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	2,551.0
Texas .....	8,243.0	8,270.6	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	8,461.8
Utah .....	958.0	961.4	962.7	965.3	969.5	973.6	974.9	979.0	980.3	982.8	989.2	994.7	996.2
Vermont .....	273.7	274.4	274.6	276.2	276.2	275.9	277.1	277.6	277.2	278.0	278.5	279.3	279.1
Virginia .....	3,129.6	3,141.0	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	3,211.6
Washington .....	2,419.0	2,425.4	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	2,512.8
West Virginia .....	696.3	698.8	699.2	700.7	702.6	701.5	701.5	703.7	708.2	708.5	707.9	709.9	709.8
Wisconsin .....	2,603.3	2,613.4	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	2,646.3
Wyoming .....	222.1	223.4	222.1	222.7	221.7	221.7	221.0	221.4	222.1	221.0	221.7	220.2	222.1

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
Construction													
Alabama .....	93.1	94.4	95.0	95.0	96.5	96.5	97.8	98.2	99.9	98.9	100.3	98.8	99.1
Alaska .....	12.4	12.5	12.3	12.4	12.6	12.8	12.6	12.1	11.8	12.2	12.5	12.5	12.5
Arizona .....	126.3	126.8	127.4	128.4	129.0	129.2	126.4	127.0	127.8	129.3	132.0	132.6	133.4
Arkansas .....	47.5	47.9	48.2	48.2	48.1	48.3	47.4	48.1	49.1	49.4	49.5	49.7	49.7
California .....	510.8	514.2	516.7	522.9	528.8	527.4	537.8	548.1	549.5	548.5	552.4	553.3	559.2
Colorado .....	112.0	113.1	112.9	112.9	114.6	114.7	111.7	115.8	115.9	116.4	116.7	116.2	116.5
Connecticut .....	52.7	52.5	52.8	52.3	51.9	51.7	51.9	52.6	53.1	53.7	54.7	55.7	55.8
Delaware .....	20.7	20.9	21.2	21.4	21.5	21.9	21.6	22.1	22.1	22.1	22.3	22.8	22.6
District of Columbia .....	8.3	8.3	8.5	8.5	8.5	8.5	8.5	9.1	9.0	8.6	8.7	8.8	8.9
Florida .....	324.8	323.7	323.7	323.1	324.0	324.0	325.9	329.2	328.9	329.7	331.4	335.1	336.4
Georgia .....	167.1	161.4	163.3	163.9	164.8	165.8	164.1	165.2	164.0	165.5	164.8	164.7	165.3
Hawaii <sup>2</sup> .....	23.5	23.4	23.2	23.1	20.7	22.7	22.4	22.4	21.8	21.5	21.3	21.4	21.1
Idaho .....	30.6	30.8	30.3	30.9	30.5	30.4	30.2	30.7	31.5	32.2	33.0	33.0	33.1
Illinois .....	222.8	221.5	221.7	221.4	222.1	223.2	220.5	219.1	220.0	225.8	222.3	224.2	225.3
Indiana .....	132.8	133.0	132.5	131.7	131.1	132.9	131.0	132.9	133.9	137.6	138.5	137.3	136.3
Iowa .....	58.1	57.7	57.9	58.6	58.8	61.3	59.1	60.7	60.9	63.0	62.5	62.0	62.0
Kansas .....	57.5	57.3	56.6	57.1	57.5	58.2	56.7	58.1	60.2	60.0	60.6	60.3	60.6
Kentucky .....	77.7	77.9	78.3	78.1	78.3	77.8	79.8	78.7	79.0	78.6	78.9	77.0	77.8
Louisiana .....	112.7	113.2	112.1	113.0	113.7	113.6	112.8	114.1	111.6	114.2	113.6	114.1	114.5
Maine .....	23.0	23.3	23.5	23.8	23.7	23.6	23.8	23.5	23.7	23.4	23.6	24.0	24.2
Maryland .....	130.9	130.7	131.0	131.8	132.8	133.3	137.6	139.2	140.7	139.0	138.5	138.9	138.0
Massachusetts .....	95.0	95.2	95.2	95.4	95.9	97.0	97.2	98.3	98.2	98.4	99.9	98.7	98.6
Michigan .....	169.1	169.9	170.0	170.5	171.0	172.9	173.3	179.7	180.5	183.4	184.8	186.6	186.1
Minnesota .....	89.2	89.5	89.4	89.0	89.0	89.7	92.3	92.3	92.3	91.3	92.6	93.1	92.8
Mississippi .....	49.3	48.5	48.4	48.3	49.3	49.6	48.5	48.1	48.0	48.7	49.1	48.4	49.1
Missouri .....	116.0	117.1	115.7	117.7	119.4	120.5	117.7	121.7	118.5	116.0	117.8	117.1	117.0
Montana .....	16.5	17.0	16.9	17.8	17.8	17.5	16.8	17.4	17.3	17.2	18.4	18.0	18.4
Nebraska .....	36.9	37.2	37.1	36.8	37.0	37.1	38.3	38.6	39.0	38.0	38.2	37.8	37.9
Nevada .....	74.9	77.2	78.9	79.3	80.4	80.0	80.2	81.5	81.4	83.2	83.4	84.5	84.6
New Hampshire .....	21.3	21.4	21.3	21.5	21.5	21.6	21.2	21.1	21.2	21.0	22.1	21.6	21.0
New Jersey .....	124.8	125.4	125.7	124.4	124.2	124.0	125.0	125.4	126.3	125.7	126.6	126.5	126.9
New Mexico .....	42.7	42.6	42.3	41.8	41.3	41.5	41.4	41.9	42.0	41.3	41.7	41.8	42.1
New York .....	257.1	258.9	260.9	260.5	260.2	261.4	251.2	253.9	257.9	259.4	260.8	262.0	263.6
North Carolina .....	190.2	190.9	191.2	193.1	194.1	194.6	198.2	200.3	200.5	199.7	199.2	197.8	198.2
North Dakota .....	15.3	15.2	15.1	14.9	15.2	15.5	15.6	15.9	15.8	14.8	15.7	16.9	16.9
Ohio .....	214.3	213.2	214.1	215.6	214.6	217.2	215.4	217.7	217.7	219.9	220.8	222.4	219.6
Oklahoma .....	49.4	50.3	50.4	50.8	50.8	51.5	51.0	51.7	52.2	51.5	51.7	51.7	51.5
Oregon .....	79.0	79.6	80.2	81.3	81.3	81.5	81.8	81.9	79.5	81.7	83.5	85.6	85.6
Pennsylvania .....	203.8	203.9	204.6	205.4	204.8	205.8	211.6	214.2	213.0	214.4	214.2	216.2	215.1
Rhode Island .....	14.0	13.5	13.3	13.5	13.4	13.3	13.9	14.3	14.8	15.1	14.8	14.2	14.4
South Carolina .....	94.8	94.7	94.5	94.6	94.7	95.2	95.8	96.3	96.6	96.1	97.3	98.9	98.5
South Dakota .....	14.8	14.9	14.8	14.7	14.6	14.8	14.8	14.7	14.3	14.1	15.0	14.9	15.1
Tennessee .....	113.0	113.0	113.5	114.2	114.9	114.7	115.1	115.8	114.5	114.5	118.0	117.8	118.6
Texas .....	436.1	437.9	437.4	444.0	444.5	445.1	437.1	447.3	449.2	451.1	456.0	458.8	457.6
Utah .....	61.1	61.5	60.8	61.2	61.6	61.9	62.0	62.1	61.5	61.4	63.9	65.1	65.7
Vermont .....	12.6	13.0	13.1	13.2	12.8	12.8	12.8	12.6	12.2	12.3	12.2	12.1	12.2
Virginia .....	176.0	176.8	177.0	176.6	177.1	178.2	183.1	184.5	184.5	183.0	183.0	182.5	182.2
Washington .....	127.7	128.6	128.4	129.4	129.7	130.1	130.6	130.6	131.1	132.4	132.5	133.0	133.1
West Virginia .....	35.0	34.8	35.4	35.2	35.1	35.2	35.4	35.7	36.8	36.2	35.0	35.5	36.0
Wisconsin .....	107.2	109.2	109.1	108.7	106.9	108.9	107.8	106.8	109.0	110.0	111.4	113.0	113.0
Wyoming .....	13.8	14.4	14.6	14.6	14.4	14.6	14.6	14.3	14.2	13.9	14.2	13.7	14.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
<b>Manufacturing</b>													
Alabama .....	383.2	380.7	380.6	380.7	381.4	381.5	382.5	382.1	383.1	380.9	380.4	378.2	378.3
Alaska .....	15.5	15.5	15.3	16.1	16.2	16.0	16.2	15.9	16.6	16.8	16.6	15.3	14.9
Arizona .....	199.6	199.9	200.4	200.8	200.9	200.7	201.6	202.6	203.2	203.4	203.9	204.6	205.9
Arkansas .....	252.4	252.7	252.2	252.7	252.3	252.3	251.5	252.9	251.9	252.7	253.0	252.8	250.8
California .....	1,856.6	1,863.3	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	1,897.7
Colorado .....	196.0	196.4	196.3	196.3	196.4	197.0	196.8	197.5	197.6	197.6	197.3	197.1	197.8
Connecticut .....	275.9	277.1	274.2	274.7	275.0	275.2	274.1	274.4	273.6	274.4	273.9	274.5	275.9
Delaware .....	58.5	58.4	56.1	56.3	56.5	56.8	57.6	57.9	58.1	58.2	58.4	58.7	58.2
District of Columbia .....	13.1	13.1	13.0	13.0	13.1	13.3	13.0	13.1	13.2	13.2	13.5	13.6	13.6
Florida .....	491.8	492.3	492.1	492.2	492.0	493.0	492.4	492.4	492.4	491.8	493.0	493.9	494.6
Georgia .....	584.9	586.0	585.3	588.7	588.1	587.9	587.6	588.6	588.8	587.6	588.9	587.7	587.1
Hawaii .....	16.6	16.4	16.4	16.6	16.4	16.5	16.5	16.5	16.4	16.5	16.4	16.4	16.4
Idaho .....	72.6	72.7	72.5	72.8	72.9	73.0	73.3	73.2	73.1	73.8	73.7	72.8	73.2
Illinois .....	972.5	973.4	973.5	974.7	975.8	976.5	977.0	980.8	979.2	978.8	978.3	978.7	978.4
Indiana .....	665.6	674.3	672.8	671.7	671.6	671.6	671.9	673.3	673.6	672.4	672.9	670.6	668.3
Iowa .....	243.7	245.2	246.4	247.6	247.9	248.1	248.7	247.1	247.0	248.9	249.0	248.9	249.1
Kansas .....	196.7	197.2	197.4	198.5	198.9	199.3	199.3	199.7	200.9	201.8	202.1	203.8	204.3
Kentucky .....	310.0	310.2	310.8	312.8	312.7	310.8	313.4	312.5	315.6	314.4	312.9	315.1	315.7
Louisiana .....	188.6	188.5	188.7	187.9	188.2	188.4	188.0	188.6	187.6	189.2	187.9	190.0	190.4
Maine .....	87.4	87.7	87.7	87.5	87.6	87.4	87.8	87.7	87.9	87.7	88.0	87.7	87.1
Maryland .....	174.5	173.9	173.9	173.5	173.4	173.3	173.6	174.1	174.1	173.7	173.2	173.6	172.5
Massachusetts .....	444.3	443.5	442.5	443.0	442.8	443.4	445.0	445.1	445.5	445.5	446.4	447.1	447.7
Michigan .....	959.6	973.7	971.9	966.7	964.6	962.0	964.3	963.9	962.8	956.6	957.7	952.4	952.8
Minnesota .....	429.1	427.8	429.3	427.3	428.5	429.7	432.4	433.0	433.9	435.6	436.8	436.7	435.4
Mississippi .....	246.5	245.9	244.3	242.8	241.8	241.6	242.0	242.0	243.0	242.4	243.3	242.2	242.6
Missouri .....	409.9	409.1	408.1	412.5	412.0	410.6	411.0	412.9	411.8	408.7	410.8	409.7	405.2
Montana .....	23.7	23.9	23.8	23.8	23.9	23.7	23.7	23.9	23.9	24.0	24.1	24.1	24.0
Nebraska .....	114.1	113.9	113.6	114.3	114.7	114.8	114.1	114.5	114.9	114.6	114.9	115.0	116.3
Nevada .....	38.5	38.6	38.9	39.1	39.5	39.5	39.5	39.6	39.7	39.7	39.9	39.9	39.8
New Hampshire .....	104.8	105.1	105.0	105.0	104.8	105.0	105.3	106.1	106.5	106.4	106.9	107.0	107.7
New Jersey .....	485.2	484.9	483.8	482.6	483.2	483.3	487.1	485.3	484.4	485.5	482.8	482.5	482.1
New Mexico .....	45.7	45.8	45.7	45.6	45.8	45.8	45.9	46.1	46.1	46.2	46.2	46.7	46.8
New York .....	924.6	922.0	919.2	917.1	916.1	916.3	915.3	913.7	915.2	915.4	916.0	917.3	919.4
North Carolina .....	844.9	842.7	843.1	845.4	844.8	844.4	844.1	841.5	842.6	840.6	841.4	842.6	843.0
North Dakota .....	21.3	21.5	21.7	21.8	21.9	22.1	22.1	22.2	22.2	22.5	22.9	23.0	23.0
Ohio .....	1,096.6	1,099.5	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	1,075.8
Oklahoma .....	174.5	175.4	175.1	176.0	176.0	176.7	176.9	177.0	177.0	173.7	174.4	177.9	178.6
Oregon .....	233.5	236.0	236.4	236.7	237.9	238.6	240.3	240.8	242.0	243.5	245.5	245.0	245.1
Pennsylvania .....	929.2	929.3	929.0	929.0	930.1	930.4	931.3	932.6	932.8	934.1	933.9	933.7	930.0
Rhode Island .....	80.5	82.0	82.0	81.7	81.6	81.5	81.2	80.5	80.3	80.7	81.5	81.1	80.5
South Carolina .....	364.9	363.9	362.7	361.6	359.7	359.3	359.7	360.7	361.5	360.3	360.8	360.3	359.1
South Dakota .....	47.7	48.1	47.8	48.2	48.3	48.5	48.6	49.0	49.0	49.1	49.6	49.7	50.0
Tennessee .....	517.7	521.5	522.4	521.5	520.6	520.5	520.0	520.9	516.9	518.1	514.8	514.9	513.7
Texas .....	1,055.2	1,057.3	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	1,070.2
Utah .....	130.0	130.0	129.8	129.7	130.3	130.9	131.0	130.9	130.4	130.9	131.4	131.8	131.3
Vermont .....	45.9	46.0	46.0	45.8	46.1	46.0	46.1	46.3	46.2	46.0	46.6	46.5	46.7
Virginia .....	398.1	398.2	397.4	397.0	397.8	399.1	398.0	398.5	398.4	397.8	397.4	397.0	396.1
Washington .....	343.8	345.8	347.3	351.1	352.9	356.5	357.6	359.0	360.8	361.4	364.4	367.0	370.5
West Virginia .....	81.9	81.5	81.6	81.4	81.4	81.2	81.7	81.1	81.7	81.8	82.3	82.0	81.8
Wisconsin .....	601.0	602.3	601.2	602.0	600.8	599.5	599.4	600.5	600.1	602.6	603.4	603.5	603.4
Wyoming .....	10.9	10.9	10.7	10.7	10.8	10.7	10.7	10.8	10.7	10.8	11.1	10.9	11.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
	Transportation and public utilities												
Alabama .....	90.2	89.9	90.1	90.2	90.1	90.0	90.0	90.0	90.5	90.5	90.3	90.0	90.0
Alaska .....	22.7	22.9	22.5	22.6	22.5	22.6	22.7	22.9	22.9	23.3	23.8	23.5	23.4
Arizona .....	92.3	93.3	93.8	94.3	94.4	94.9	94.8	95.0	95.1	95.4	95.7	95.2	95.7
Arkansas .....	64.8	64.8	64.6	64.5	64.7	64.8	65.4	65.3	65.8	65.9	66.1	65.8	65.6
California .....	643.0	644.4	645.1	645.2	646.3	645.4	651.6	654.1	654.4	655.8	659.7	660.5	660.5
Colorado .....	120.8	120.5	119.9	119.2	119.2	117.8	118.0	117.9	117.1	117.2	115.7	116.6	116.0
Connecticut .....	73.1	73.0	73.0	73.2	73.5	73.0	73.4	73.7	74.0	74.7	75.5	76.0	76.1
Delaware .....	15.8	15.9	15.8	15.8	15.7	15.7	15.7	15.9	15.7	15.8	15.8	15.9	16.4
District of Columbia .....	19.0	19.0	18.7	18.9	19.0	19.3	19.2	19.2	19.0	18.7	18.6	18.5	18.4
Florida .....	313.7	314.8	315.3	316.6	318.3	322.1	321.9	322.0	323.5	323.3	322.8	324.0	324.7
Georgia .....	225.9	222.2	221.6	222.2	222.6	223.3	223.6	223.8	225.2	225.4	226.6	228.1	229.7
Hawaii .....	40.8	41.1	40.9	41.1	41.2	41.1	41.2	41.0	41.4	41.2	41.0	40.8	41.2
Idaho .....	23.0	23.2	23.2	23.6	23.6	23.5	23.4	23.1	23.2	23.3	23.5	23.7	23.7
Illinois .....	331.4	331.2	330.1	333.0	333.3	334.9	338.5	338.8	339.1	340.5	341.0	342.3	341.1
Indiana .....	138.9	138.4	138.5	139.1	139.1	139.7	138.6	139.2	139.8	140.4	140.4	140.1	139.3
Iowa .....	62.8	63.2	63.3	64.0	64.2	64.2	64.9	64.9	65.1	65.3	65.3	65.0	65.4
Kansas .....	69.8	70.1	70.1	70.2	70.3	70.4	70.9	71.5	71.9	72.5	72.4	72.7	72.4
Kentucky .....	93.6	93.8	93.5	93.9	93.4	93.9	95.7	95.9	96.0	96.4	96.5	96.4	97.7
Louisiana .....	108.5	108.9	109.0	108.9	108.7	108.5	109.1	108.6	109.1	109.6	109.9	109.5	110.2
Maine .....	22.3	22.2	22.3	22.3	22.4	22.5	22.8	22.7	22.6	22.6	22.7	22.5	22.6
Maryland .....	107.2	107.6	106.6	106.6	106.4	105.8	107.6	108.6	108.6	107.1	108.0	108.2	108.5
Massachusetts .....	128.2	128.1	129.7	132.1	131.6	131.8	131.3	131.9	132.2	131.5	132.0	132.0	131.3
Michigan .....	168.9	168.6	168.8	168.6	167.8	168.7	168.2	169.8	169.9	168.4	168.8	169.2	169.7
Minnesota .....	119.6	119.8	120.1	120.7	120.3	120.4	121.4	121.9	122.3	122.4	122.8	123.2	123.1
Mississippi .....	52.9	52.8	52.9	52.5	52.6	52.5	52.8	52.7	52.5	52.2	52.5	51.7	51.9
Missouri .....	160.0	161.3	159.4	161.4	161.9	162.1	161.9	162.1	162.2	162.4	162.5	162.6	160.4
Montana .....	20.7	20.6	20.6	20.4	20.7	20.3	20.5	20.5	20.7	20.3	20.6	20.3	20.2
Nebraska .....	50.3	50.6	50.1	50.6	50.7	50.4	50.9	51.3	52.1	52.4	53.0	52.9	52.8
Nevada .....	42.5	42.6	42.6	42.7	43.0	43.2	43.3	43.5	43.8	44.0	44.2	44.4	44.6
New Hampshire .....	19.9	20.0	19.5	19.6	19.7	19.8	19.6	19.6	19.6	19.5	19.4	19.8	19.8
New Jersey .....	255.0	255.6	255.9	256.0	256.0	256.4	255.8	256.9	257.5	257.4	257.5	257.6	257.0
New Mexico .....	31.5	31.8	31.0	30.9	30.7	30.6	30.7	30.8	30.8	30.9	31.1	31.3	31.2
New York .....	402.7	402.6	401.6	403.0	402.7	401.9	407.2	407.2	407.9	408.0	406.2	406.4	406.9
North Carolina .....	167.3	167.4	167.7	169.2	170.0	170.0	170.7	171.7	172.8	173.3	172.9	173.1	173.4
North Dakota .....	18.3	18.3	18.3	18.4	18.4	18.3	18.5	18.5	18.4	18.6	18.4	18.5	18.4
Ohio .....	231.7	231.8	232.1	231.9	232.6	232.3	234.8	235.2	235.3	234.6	234.5	233.6	233.5
Oklahoma .....	76.3	76.5	76.8	77.7	77.7	77.7	77.8	77.5	77.4	77.8	78.2	78.7	79.0
Oregon .....	73.1	73.0	73.5	73.9	73.6	72.5	73.7	74.3	73.8	74.3	73.8	73.3	73.2
Pennsylvania .....	272.1	272.9	272.7	271.6	272.0	271.3	271.5	271.9	271.9	272.2	273.3	272.0	272.3
Rhode Island .....	15.0	15.0	15.1	15.0	15.2	15.1	14.9	14.8	15.0	15.0	14.9	15.0	15.0
South Carolina .....	74.0	73.9	73.9	73.8	73.9	74.0	74.0	73.5	74.0	75.1	75.0	74.4	74.6
South Dakota .....	16.3	16.5	16.4	16.6	16.5	16.6	16.5	16.4	16.2	15.9	16.1	15.9	16.0
Tennessee .....	142.7	142.5	142.6	142.4	143.0	143.3	142.7	143.1	143.1	143.1	142.5	141.1	141.4
Texas .....	488.0	489.9	489.2	489.9	490.5	492.8	492.0	492.8	493.3	493.6	496.4	496.8	500.4
Utah .....	54.5	54.4	54.7	54.5	54.9	55.0	55.1	55.4	55.4	56.1	56.4	56.5	56.7
Vermont .....	12.1	12.1	12.1	12.3	12.3	12.3	12.3	12.3	12.4	12.4	12.5	12.5	12.4
Virginia .....	161.5	162.3	162.4	164.1	164.8	164.3	165.2	165.2	165.7	165.5	166.4	166.8	168.5
Washington .....	123.2	123.8	123.4	123.7	123.9	124.2	124.7	124.7	125.7	125.6	125.8	125.5	125.6
West Virginia .....	38.8	39.1	38.8	39.0	39.2	39.1	38.3	38.5	38.6	38.6	38.7	38.7	38.4
Wisconsin .....	120.9	121.1	121.5	121.2	121.5	121.4	121.2	120.6	121.0	121.4	122.5	122.3	122.2
Wyoming .....	13.9	13.9	13.9	13.8	13.9	13.6	13.6	13.5	13.8	13.6	13.8	13.7	13.7

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
	Trade												
Alabama .....	421.3	420.9	421.2	420.4	420.8	421.4	421.3	421.7	424.0	422.6	423.9	422.8	423.7
Alaska .....	55.3	55.0	54.9	54.3	54.1	54.3	54.1	54.2	54.2	54.2	55.2	55.7	55.8
Arizona .....	467.6	470.5	470.1	470.3	473.3	473.4	476.1	481.1	483.6	482.0	484.7	484.8	487.0
Arkansas .....	247.8	248.4	248.3	248.3	249.1	249.5	248.0	248.0	249.2	249.2	250.1	250.4	250.2
California .....	2,975.7	2,976.2	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	3,026.8
Colorado .....	460.9	468.9	468.8	469.3	470.5	470.5	467.6	470.5	471.6	472.5	471.4	474.3	473.3
Connecticut .....	347.7	348.5	347.4	347.6	349.1	349.9	350.0	349.0	349.7	347.9	349.3	352.4	353.4
Delaware .....	83.6	83.8	84.5	84.9	85.3	85.5	84.8	85.4	86.0	86.1	86.0	85.6	85.6
District of Columbia .....	49.1	49.4	49.9	50.2	50.1	50.3	50.1	50.4	50.2	49.6	48.6	48.8	49.2
Florida .....	1,606.6	1,614.3	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	1,659.6
Georgia .....	919.3	905.6	896.9	902.1	907.9	915.1	903.9	902.3	905.8	908.0	909.9	912.0	914.3
Hawaii .....	134.3	134.7	135.0	135.2	135.3	135.0	135.3	135.9	135.4	135.1	135.0	134.5	133.9
Idaho .....	125.5	125.8	125.9	126.2	126.3	126.9	127.4	127.9	128.7	128.4	128.5	127.5	126.9
Illinois .....	1,304.1	1,305.5	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	1,301.4
Indiana .....	683.4	683.6	683.9	683.6	684.0	683.5	678.2	679.4	681.3	685.0	687.6	689.5	689.7
Iowa .....	341.6	345.6	339.8	339.4	340.6	340.7	340.5	339.5	339.9	340.4	341.3	342.1	342.2
Kansas .....	303.2	303.9	304.0	306.2	306.4	306.9	309.1	308.4	309.2	308.2	309.2	310.6	310.6
Kentucky .....	401.9	402.7	402.1	399.8	401.5	405.2	404.5	405.2	408.5	410.8	413.3	412.9	410.0
Louisiana .....	422.7	423.2	423.5	426.1	427.4	428.7	427.4	427.5	432.4	432.6	431.4	431.4	431.2
Maine .....	136.1	136.0	136.9	135.8	135.5	134.1	137.1	137.3	137.7	137.6	138.2	138.1	138.9
Maryland .....	530.7	530.7	530.4	531.5	532.4	533.7	531.6	534.9	535.5	533.9	536.4	537.1	539.7
Massachusetts .....	700.8	704.1	702.2	703.7	706.0	706.3	705.0	702.5	702.6	700.9	703.6	707.3	710.3
Michigan .....	1,019.9	1,025.2	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	1,044.1
Minnesota .....	591.2	593.3	592.7	596.2	597.5	600.0	600.4	602.1	604.2	599.1	601.3	601.9	601.4
Mississippi .....	234.3	233.7	232.9	233.4	233.8	233.4	233.5	232.8	233.7	233.1	233.1	230.4	231.6
Missouri .....	609.9	613.0	612.6	616.2	617.4	618.9	618.1	614.0	615.5	615.5	615.7	615.7	613.1
Montana .....	97.0	97.1	96.8	97.3	97.5	97.3	97.2	97.5	97.5	98.1	98.4	98.6	98.4
Nebraska .....	204.9	206.9	207.6	208.6	209.3	209.6	210.2	210.5	210.1	208.1	207.7	208.3	208.0
Nevada .....	171.1	172.4	172.8	174.1	175.1	176.4	176.6	178.2	178.3	179.6	180.4	181.1	181.9
New Hampshire .....	146.9	148.3	144.9	146.5	146.9	147.9	147.2	147.8	147.8	147.5	149.0	149.3	152.2
New Jersey .....	855.6	857.3	858.9	859.7	861.1	860.9	860.9	867.1	868.0	869.9	869.1	872.7	872.8
New Mexico .....	184.5	184.1	184.2	185.0	186.1	186.6	185.8	185.7	186.0	186.6	187.1	188.2	187.8
New York .....	1,621.5	1,623.9	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	1,639.8
North Carolina .....	813.0	808.4	810.2	817.0	817.6	820.3	822.2	821.1	823.0	823.0	824.1	818.9	816.6
North Dakota .....	80.0	80.0	80.3	80.0	80.6	80.6	80.9	80.9	80.8	80.4	80.7	81.4	80.8
Ohio .....	1,296.9	1,298.8	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	1,318.1
Oklahoma .....	317.4	319.0	318.9	321.4	323.4	323.9	324.6	324.9	326.7	325.1	325.8	324.8	324.2
Oregon .....	366.5	367.7	367.2	368.1	366.9	371.7	372.2	372.0	373.5	374.3	375.0	376.0	377.4
Pennsylvania .....	1,208.0	1,211.2	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	1,234.0
Rhode Island .....	99.4	100.0	99.6	99.3	99.7	99.8	98.7	99.2	99.6	99.4	99.7	99.3	99.9
South Carolina .....	397.0	399.2	400.1	398.9	400.8	402.1	400.3	401.4	403.8	405.6	407.5	407.3	407.6
South Dakota .....	87.2	88.0	87.7	87.8	87.8	87.9	86.9	87.4	87.8	87.1	88.5	88.2	87.7
Tennessee .....	591.5	597.2	600.1	598.8	602.8	605.9	604.0	604.7	606.8	605.2	604.5	603.7	603.2
Texas .....	1,993.7	1,995.2	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	2,040.1
Utah .....	231.3	232.6	232.3	232.4	233.5	234.6	235.0	235.7	237.0	237.7	239.5	240.2	241.2
Vermont .....	64.5	64.4	64.1	65.0	64.8	64.3	65.0	65.3	65.6	66.3	66.2	66.9	66.9
Virginia .....	714.1	716.7	717.6	723.7	724.4	728.1	724.2	725.5	726.5	725.1	728.0	729.5	731.6
Washington .....	594.0	594.7	593.8	595.7	596.4	596.6	596.3	596.7	598.9	600.0	602.9	605.1	607.0
West Virginia .....	160.4	180.5	160.9	161.9	162.1	161.3	160.6	160.7	162.5	163.0	163.8	163.9	164.0
Wisconsin .....	595.1	593.8	596.3	597.6	599.4	600.7	600.5	601.6	602.9	601.5	602.2	603.6	603.1
Wyoming .....	52.2	52.3	52.0	52.3	51.8	52.3	51.7	52.1	52.1	52.2	51.7	51.5	52.5

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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
	Finance, insurance, and real estate												
Alabama .....	81.7	82.0	81.9	82.3	82.6	82.7	82.9	83.1	83.5	83.3	83.5	83.9	83.9
Alaska .....	11.9	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.7	11.8	11.9
Arizona .....	115.8	116.6	116.8	116.8	117.1	117.6	119.0	120.2	121.3	121.6	122.1	123.0	124.0
Arkansas .....	43.3	43.4	43.4	43.5	43.6	43.6	43.6	43.6	43.8	43.7	44.0	44.1	43.9
California .....	734.7	734.7	733.1	734.0	734.0	733.8	732.3	732.6	732.2	732.3	732.8	734.3	736.3
Colorado .....	118.9	119.0	118.8	118.1	118.5	118.8	119.9	120.3	120.7	121.0	120.3	120.7	121.2
Connecticut .....	130.6	130.3	130.5	130.5	130.6	130.4	129.7	129.3	129.0	129.4	129.7	129.9	129.9
Delaware .....	43.9	44.3	44.3	44.3	44.2	44.6	44.3	44.9	45.2	46.2	46.6	46.9	46.9
District of Columbia .....	28.2	28.3	28.0	27.7	28.0	28.0	28.0	28.1	28.2	27.7	27.6	27.7	27.8
Florida .....	394.6	395.7	397.4	398.1	399.4	401.0	401.7	401.8	402.5	405.1	406.0	407.2	408.7
Georgia .....	181.1	180.4	181.1	182.1	182.4	182.6	183.5	183.3	184.1	185.4	186.5	187.6	188.1
Hawaii .....	36.6	36.6	36.6	36.8	36.6	36.6	36.4	36.3	35.9	35.9	35.7	35.8	35.7
Idaho .....	25.1	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.4	25.5	25.5	25.5	25.6
Illinois .....	384.4	385.5	386.2	387.5	387.9	387.9	387.0	387.9	389.2	390.0	390.1	390.7	390.5
Indiana .....	134.8	135.1	135.8	136.3	136.4	136.4	137.1	137.7	138.0	138.5	138.2	138.1	138.7
Iowa .....	77.7	77.7	77.3	77.6	77.6	77.8	77.5	77.9	78.2	78.5	78.8	78.6	78.5
Kansas .....	58.4	58.6	58.4	58.9	58.8	59.0	59.5	59.5	59.8	59.9	60.0	60.2	60.2
Kentucky .....	67.8	67.9	67.7	68.3	68.3	68.6	68.4	68.6	68.7	68.8	69.0	69.2	69.4
Louisiana .....	83.0	83.3	83.4	83.4	83.5	83.4	83.5	83.6	83.5	83.5	83.5	83.7	83.6
Maine .....	26.7	26.7	26.7	26.8	26.9	27.1	27.4	27.2	27.2	27.1	27.1	26.9	27.4
Maryland .....	128.5	128.8	128.6	128.6	128.7	128.6	127.7	127.3	127.7	127.3	127.7	127.9	127.7
Massachusetts .....	209.4	210.1	210.8	211.7	212.5	213.1	211.9	213.0	213.9	214.0	215.1	216.5	217.3
Michigan .....	201.3	201.4	201.5	202.2	202.4	203.2	201.9	202.7	202.5	203.8	203.5	202.8	203.1
Minnesota .....	142.2	142.6	142.8	142.7	143.1	143.5	143.2	143.9	144.7	145.0	145.0	145.1	145.6
Mississippi .....	41.2	41.0	40.9	41.0	41.1	41.2	41.1	41.0	41.3	41.4	41.4	41.6	41.5
Missouri .....	150.2	150.6	150.6	151.0	151.3	151.9	153.6	154.6	155.2	155.0	155.7	156.5	157.8
Montana .....	15.9	16.0	15.9	16.1	16.1	16.2	16.1	16.4	16.5	16.6	16.6	16.7	16.7
Nabraska .....	53.1	52.7	52.9	53.2	53.3	53.6	54.2	54.0	54.2	54.6	55.0	55.0	55.1
Nevada .....	37.9	37.9	37.9	38.1	38.2	38.4	38.3	38.6	38.9	39.0	39.2	39.2	39.5
New Hampshire .....	28.4	28.1	28.2	28.1	28.1	28.3	28.5	28.3	28.5	28.4	28.3	28.4	28.4
New Jersey .....	231.2	231.7	232.8	233.5	234.1	234.5	235.0	234.1	234.4	234.3	234.7	235.5	236.0
New Mexico .....	31.7	31.6	31.7	31.8	31.8	31.9	32.2	32.2	32.1	32.1	32.1	32.0	32.0
New York .....	721.3	721.9	722.1	723.0	723.0	723.5	725.4	725.8	726.1	725.3	725.0	725.0	724.2
North Carolina .....	153.5	154.3	154.8	156.9	157.7	158.4	159.2	159.5	159.9	159.5	160.0	160.2	159.3
North Dakota .....	14.5	14.5	14.6	14.8	14.8	14.8	14.7	14.7	14.6	14.9	15.0	15.1	15.2
Ohio .....	277.6	277.9	278.3	279.0	279.5	279.8	279.5	280.7	280.0	280.1	280.8	281.4	281.2
Oklahoma .....	67.4	67.7	67.5	67.9	68.2	68.4	68.3	68.6	68.7	68.8	69.1	69.2	69.3
Oregon .....	90.5	90.9	91.1	91.8	92.4	92.6	93.3	93.8	93.8	94.0	94.2	94.6	94.9
Pennsylvania .....	309.2	310.4	310.9	310.9	311.6	312.4	311.5	311.8	311.5	312.3	312.5	312.5	313.3
Rhode Island .....	25.4	25.4	25.5	25.3	25.4	25.6	25.5	25.5	25.5	25.8	25.8	25.9	25.7
South Carolina .....	72.4	72.7	73.0	72.9	73.0	73.1	73.2	73.2	73.5	73.6	74.2	74.2	74.0
South Dakota .....	19.9	19.9	20.0	20.0	20.1	20.2	20.3	20.2	20.6	20.7	20.8	20.9	21.3
Tennessee .....	117.5	118.0	118.1	118.2	118.6	118.9	119.3	119.1	119.8	119.6	119.7	119.5	119.6
Texas .....	444.6	445.2	446.0	447.5	447.5	448.3	448.7	448.4	448.7	449.8	451.2	453.4	454.6
Utah .....	50.6	50.6	50.5	50.8	51.3	51.4	51.1	51.4	51.5	51.6	51.8	52.0	52.1
Vermont .....	12.1	12.2	12.2	12.2	12.2	12.2	12.4	12.4	12.4	12.4	12.5	12.6	12.6
Virginia .....	161.8	162.2	162.3	163.1	163.5	163.8	164.1	164.1	164.8	164.6	165.4	166.7	166.4
Washington .....	123.9	124.2	124.4	124.1	124.4	124.6	125.4	125.7	126.0	126.0	126.3	126.2	126.1
West Virginia .....	27.1	26.9	27.1	27.4	27.4	27.5	27.3	27.4	27.5	27.6	27.7	27.4	27.5
Wisconsin .....	138.1	138.6	138.4	138.9	139.3	139.6	139.8	140.4	140.5	140.9	141.2	142.1	142.3
Wyoming .....	8.0	7.9	7.9	8.0	8.0	8.0	7.9	7.8	7.9	7.9	7.9	7.9	8.1

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
	Services												
Alabama .....	407.1	408.6	409.5	410.2	410.9	411.8	409.7	411.1	413.0	414.2	415.5	415.3	416.7
Alaska .....	63.3	62.8	62.8	62.3	62.5	62.8	62.6	63.0	63.6	63.8	64.5	64.5	64.8
Arizona .....	565.3	568.6	574.6	575.5	577.9	580.2	579.3	583.1	584.3	586.1	590.4	594.4	595.5
Arkansas .....	245.6	247.2	247.7	248.5	249.7	250.7	250.4	250.8	250.9	250.6	251.6	250.9	250.1
California .....	3,930.6	3,945.7	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	4,095.7
Colorado .....	567.0	570.0	571.3	573.8	576.2	579.1	581.5	587.4	592.5	585.8	589.1	588.0	587.5
Connecticut .....	484.2	486.1	486.9	486.1	487.7	488.5	489.0	490.8	493.1	493.2	496.0	497.7	500.0
Delaware .....	103.2	103.4	103.5	103.5	104.0	104.4	104.3	104.6	104.9	104.2	105.1	105.0	105.3
District of Columbia .....	265.5	264.6	263.9	262.6	262.3	263.7	263.9	267.0	267.8	266.5	264.8	266.8	267.5
Florida .....	2,129.0	2,134.0	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	2,236.2
Georgia .....	937.8	908.7	904.2	911.7	915.5	918.5	918.2	920.9	924.6	927.3	931.3	931.4	936.5
Hawaii .....	165.8	166.7	166.5	166.8	167.0	167.0	168.1	168.6	168.6	168.8	168.6	167.9	168.5
Illinois .....	1,115.6	1,116.0	1,115.7	1,116.3	1,116.2	1,116.0	1,115.9	1,116.9	1,117.4	1,116.9	1,118.1	1,117.4	1,118.4
Indiana .....	1,648.3	1,650.4	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
Iowa .....	657.1	658.8	662.6	662.4	661.5	661.4	665.3	664.1	671.4	669.5	675.0	673.8	674.1
Iowa .....	359.2	359.7	358.2	363.3	365.4	367.6	367.5	369.6	371.7	371.9	372.8	375.2	374.3
Kansas .....	300.9	301.7	302.3	304.4	305.0	305.7	307.1	308.4	308.8	310.8	311.7	311.8	312.9
Kentucky .....	408.6	411.3	411.5	413.8	413.7	416.8	413.7	415.8	419.6	419.9	422.1	422.5	423.8
Louisiana .....	486.7	487.9	490.3	493.8	494.6	495.4	496.8	495.2	494.5	493.3	493.1	492.5	493.7
Maine .....	150.3	150.7	150.8	151.2	151.7	152.4	152.9	154.0	153.9	154.7	154.5	155.3	156.2
Maryland .....	718.4	720.1	720.6	722.3	725.3	727.9	723.7	730.4	733.5	734.3	738.7	741.4	743.5
Massachusetts .....	1,065.1	1,067.9	1,072.5	1,075.3	1,078.6	1,079.9	1,078.6	1,083.1	1,088.4	1,096.8	1,102.7	1,102.0	1,105.6
Michigan .....	1,163.5	1,174.2	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	1,201.3
Minnesota .....	673.5	676.6	677.4	676.5	678.5	679.4	677.9	683.7	687.2	687.5	689.9	694.9	693.3
Mississippi .....	246.2	250.2	251.2	252.0	252.8	253.0	250.4	251.5	252.9	254.2	253.8	251.1	248.4
Missouri .....	707.6	709.9	708.7	711.0	713.6	719.0	714.1	722.2	723.2	725.9	729.7	729.3	725.5
Montana .....	101.5	101.6	101.6	102.2	102.6	102.9	101.7	102.5	103.3	103.7	103.9	105.0	104.2
Nebraska .....	219.7	219.9	220.8	222.3	223.5	224.2	224.9	226.3	228.5	227.4	227.1	227.3	229.1
Nevada .....	364.8	367.4	368.1	368.0	371.4	373.5	376.5	378.6	380.8	381.0	382.8	385.1	385.6
New Hampshire .....	165.7	165.8	164.7	165.5	164.2	164.1	163.6	163.3	164.0	163.1	165.0	166.5	168.1
New Jersey .....	1,123.9	1,128.4	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	1,162.9
New Mexico .....	191.8	192.1	193.2	193.8	194.2	195.2	194.9	195.3	196.7	195.9	196.2	196.4	196.4
New York .....	2,612.7	2,618.8	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	2,681.3
North Carolina .....	825.1	828.3	832.6	846.0	850.1	852.0	845.4	842.0	848.3	849.2	854.1	858.4	860.1
North Dakota .....	84.9	85.0	85.1	85.8	86.1	86.1	86.0	86.9	86.8	87.1	87.5	87.7	88.2
Ohio .....	1,420.9	1,424.7	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	1,445.9
Oklahoma .....	363.9	367.8	368.1	370.0	372.5	374.1	376.3	377.8	379.4	379.1	381.9	381.0	381.4
Oregon .....	387.1	390.2	391.2	391.8	393.7	395.0	392.0	397.9	397.0	400.5	401.1	400.6	404.4
Pennsylvania .....	1,655.1	1,659.2	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	1,708.6
Rhode Island .....	146.1	147.0	147.6	147.2	148.1	148.0	146.1	145.8	146.4	146.4	145.7	147.1	147.3
South Carolina .....	375.2	376.0	376.4	375.5	376.6	378.1	375.0	377.2	378.5	382.3	384.6	386.4	386.4
South Dakota .....	90.1	90.3	90.5	91.0	91.1	91.0	90.1	90.9	89.8	90.1	91.2	90.9	91.3
Tennessee .....	655.9	658.9	660.1	659.3	662.8	664.8	664.8	666.6	665.8	665.0	664.0	663.4	667.3
Texas .....	2,218.1	2,234.6	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	2,304.3
Utah .....	256.2	258.0	259.9	260.9	261.5	263.1	264.3	266.8	267.7	268.5	269.4	271.7	272.9
Vermont .....	80.8	80.9	81.1	81.8	82.1	82.0	83.0	82.5	82.6	82.5	83.1	82.6	82.6
Virginia .....	910.3	915.6	919.6	924.3	926.1	932.6	936.1	943.4	947.2	947.2	951.3	947.1	953.8
Washington .....	649.2	653.9	652.3	656.2	657.6	659.1	659.4	664.2	666.6	670.0	674.7	677.3	679.6
West Virginia .....	191.6	192.1	191.7	192.5	193.8	193.9	194.9	195.4	195.7	195.7	195.5	196.5	198.9
Wisconsin .....	654.8	658.8	661.9	666.7	669.2	672.0	668.6	670.2	674.1	673.7	675.7	677.0	677.5
Wyoming .....	48.2	48.3	48.3	48.6	48.1	48.0	47.9	48.1	48.4	48.0	48.2	48.0	48.7

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
Government													
Alabama .....	338.2	341.6	340.9	341.6	341.9	342.1	342.6	343.3	343.4	343.7	343.7	342.8	342.1
Alaska .....	73.4	73.1	73.4	73.3	73.3	73.0	73.2	73.5	73.2	73.3	71.8	72.5	73.4
Arizona .....	314.2	325.0	325.0	325.7	329.6	326.5	322.7	326.5	326.9	327.9	328.5	325.2	319.1
Arkansas .....	179.2	180.4	179.8	179.9	179.7	180.1	180.2	180.3	180.4	180.7	180.2	181.9	181.4
California .....	2,112.3	2,118.1	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	2,148.9
Colorado .....	308.1	308.2	310.2	310.4	310.6	310.5	313.3	310.5	309.9	309.7	312.0	312.7	311.8
Connecticut .....	223.1	223.7	225.4	227.3	226.7	227.0	224.7	226.8	225.3	228.5	227.1	226.3	229.1
Delaware .....	53.1	53.4	53.1	53.0	53.0	53.1	53.1	53.0	52.9	53.4	53.3	53.1	53.0
District of Columbia .....	239.3	239.5	238.6	238.7	237.9	237.5	235.2	234.3	232.1	231.4	231.3	230.6	232.2
Florida .....	920.3	921.0	928.3	928.4	942.5	936.2	947.8	942.1	940.4	942.6	943.8	943.4	937.7
Georgia .....	570.7	567.1	567.4	567.9	569.7	570.0	566.3	566.2	567.4	566.9	568.5	569.5	573.0
Hawaii .....	110.5	110.5	109.8	109.6	109.6	109.3	112.4	110.2	109.3	110.0	110.1	111.3	110.5
Idaho .....	97.7	98.5	98.1	99.3	99.6	99.6	98.3	98.4	98.0	97.9	98.1	98.1	99.6
Illinois .....	816.1	820.0	815.8	806.2	808.9	808.0	805.3	805.2	808.6	807.8	809.1	813.9	814.7
Indiana .....	378.9	390.1	396.1	395.7	397.3	393.7	386.5	390.1	389.3	389.2	393.0	399.2	386.9
Iowa .....	232.3	230.7	230.6	230.9	230.2	230.2	231.1	231.6	230.6	230.6	231.4	233.3	230.8
Kansas .....	227.0	230.0	233.6	239.6	246.5	240.2	237.3	237.2	240.1	236.8	239.4	236.2	236.9
Kentucky .....	291.0	290.1	287.5	290.1	290.4	290.9	290.8	292.4	291.7	292.8	294.7	293.5	294.8
Louisiana .....	358.4	360.5	362.1	360.7	360.9	361.3	360.8	363.1	364.0	364.6	365.1	365.9	360.9
Maine .....	92.9	93.1	94.1	93.5	93.3	93.6	93.3	93.2	93.4	93.1	92.2	93.4	93.0
Maryland .....	422.8	420.6	422.3	420.3	420.2	419.4	422.6	422.4	422.2	422.0	421.0	425.9	423.3
Massachusetts .....	399.9	400.2	404.8	402.2	403.0	403.1	401.1	400.6	401.2	402.4	402.1	402.5	402.2
Michigan .....	638.3	637.4	644.7	645.0	646.5	643.6	646.3	644.6	641.6	643.4	646.5	644.4	635.0
Minnesota .....	384.0	382.6	383.0	381.1	383.5	383.0	380.0	380.6	381.5	379.6	382.4	384.8	388.2
Mississippi .....	218.9	220.2	219.5	219.7	219.5	220.3	220.0	220.6	220.9	222.2	223.4	226.9	230.6
Missouri .....	396.6	397.5	398.6	404.8	404.9	405.0	405.0	407.4	408.4	409.6	412.1	416.2	415.1
Montana .....	76.3	76.2	76.4	77.6	78.7	77.2	78.0	77.9	77.6	78.0	77.6	76.3	76.8
Nebraska .....	151.6	152.2	152.0	152.2	153.3	152.5	152.9	152.2	152.6	152.5	150.6	151.3	151.8
Nevada .....	102.2	100.2	102.8	103.1	106.8	103.9	104.6	104.4	104.8	105.2	105.6	109.1	107.8
New Hampshire .....	79.2	79.0	79.1	79.1	79.8	79.4	80.3	79.8	79.9	81.6	81.6	81.3	81.3
New Jersey .....	568.6	566.2	569.2	568.6	567.9	566.9	568.7	567.5	566.5	566.4	566.5	566.1	564.7
New Mexico .....	172.2	172.3	171.8	172.3	173.1	173.6	172.9	172.8	172.2	173.4	173.1	176.2	176.0
New York .....	1,377.1	1,374.9	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	1,376.8
North Carolina .....	550.2	558.3	567.9	568.1	570.3	572.3	576.1	577.0	577.4	580.7	581.1	579.0	577.1
North Dakota .....	70.2	70.8	71.3	70.5	70.7	70.8	70.7	71.1	71.2	70.1	70.8	71.0	70.3
Ohio .....	751.6	758.2	749.8	750.3	752.1	753.2	751.7	753.8	753.0	750.8	754.5	758.9	763.5
Oklahoma .....	271.1	272.0	270.9	273.2	273.3	273.1	271.8	271.4	271.6	271.6	273.6	273.2	275.2
Oregon .....	246.4	244.3	246.5	246.2	251.2	247.8	248.9	249.9	249.3	249.5	248.6	249.2	250.1
Pennsylvania .....	721.3	722.2	723.2	722.5	722.2	723.1	723.2	726.5	723.2	724.3	726.8	720.8	732.6
Rhode Island .....	59.3	60.1	61.8	62.0	62.2	62.1	62.2	62.3	62.3	62.3	62.5	61.5	60.5
South Carolina .....	298.6	298.1	299.5	299.5	310.9	300.5	300.4	301.0	301.5	301.9	302.1	303.2	304.1
South Dakota .....	70.4	69.9	70.5	69.6	70.4	70.1	70.6	70.9	70.0	70.2	70.8	69.4	70.9
Tennessee .....	379.7	378.8	381.9	383.1	384.2	383.5	382.8	383.8	383.5	382.0	382.1	390.5	382.6
Texas .....	1,450.7	1,453.8	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	1,470.9
Utah .....	166.4	166.4	166.8	167.9	168.4	168.8	168.4	168.9	168.8	168.7	168.9	169.5	168.3
Vermont .....	45.1	45.2	45.5	45.3	45.5	45.7	45.0	45.6	45.1	45.5	44.8	45.5	45.1
Virginia .....	597.2	598.5	597.9	599.8	600.7	601.1	603.6	602.0	601.4	600.9	600.4	600.1	602.0
Washington .....	453.8	451.0	450.7	451.2	451.6	453.8	455.3	452.2	454.8	454.8	454.9	461.9	467.4
West Virginia .....	135.8	138.3	138.0	137.9	138.6	138.4	138.5	140.3	140.7	140.9	140.4	141.1	138.8
Wisconsin .....	383.7	387.1	384.2	383.2	386.9	384.3	384.6	385.2	384.9	384.7	386.1	387.1	382.3
Wyoming .....	59.2	59.6	59.0	58.9	59.0	58.8	59.1	59.0	59.1	58.8	59.0	59.0	58.4

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>p</sup>	Aug. <sup>p</sup>
<b>Total private</b> .....	34.5	34.7	34.4	34.5	34.7	34.4	34.8	34.8	34.5	34.5	34.6	34.5	34.7
<b>Goods-producing</b> .....	41.1	41.1	41.1	41.1	41.3	41.1	41.2	41.4	41.4	41.4	41.1	41.2	41.2
<b>Mining</b> .....	45.2	45.3	45.4	45.3	45.7	44.7	45.8	45.9	45.3	46.0	45.4	45.3	44.9
<b>Construction</b> .....	38.8	38.7	38.9	38.8	38.9	38.6	38.8	38.9	38.9	39.4	38.7	39.0	38.6
<b>Manufacturing</b> .....	41.7	41.7	41.7	41.7	42.0	41.8	41.9	42.1	42.1	42.0	41.8	41.8	41.9
<i>Overtime hours</i> .....	4.5	4.5	4.5	4.6	4.7	4.7	4.7	4.9	4.9	4.8	4.6	4.7	4.8
<b>Durable goods</b> .....	42.5	42.5	42.4	42.5	42.7	42.5	42.7	42.9	43.0	42.8	42.6	42.6	42.7
<i>Overtime hours</i> .....	4.8	4.8	4.7	4.8	4.9	5.0	5.0	5.2	5.3	5.2	5.0	5.0	5.1
Lumber and wood products .....	40.9	40.9	40.8	40.9	41.0	40.7	40.8	41.0	41.2	41.0	41.0	41.1	40.9
Furniture and fixtures .....	39.6	39.6	39.6	39.8	40.1	39.8	39.9	40.3	40.1	40.4	39.9	39.9	40.3
Stone, clay, and glass products .....	43.2	43.2	43.3	43.2	43.4	42.6	43.3	43.1	43.0	43.4	42.9	43.1	43.0
Primary metal industries .....	44.3	44.4	44.4	44.3	44.6	44.4	44.6	44.8	45.1	44.8	44.7	44.4	45.1
Blast furnaces and basic steel products .....	44.3	44.3	44.6	44.6	44.6	44.7	44.6	44.8	45.2	44.7	44.5	44.4	45.3
Fabricated metal products .....	42.4	42.4	42.3	42.3	42.4	42.4	42.5	42.6	42.9	42.6	42.4	42.5	42.3
Industrial machinery and equipment .....	43.0	43.1	43.0	43.1	43.3	43.2	43.4	43.5	43.9	43.6	43.3	43.4	43.5
Electronic and other electrical equipment .....	41.6	41.6	41.5	41.5	41.8	41.3	41.9	42.1	42.3	42.0	42.0	42.1	41.9
Transportation equipment .....	44.4	44.4	44.0	44.3	44.6	44.7	44.6	45.0	44.8	44.5	44.2	43.6	44.3
Motor vehicles and equipment .....	45.6	45.3	44.8	44.9	45.2	45.6	45.3	45.7	45.3	45.2	44.8	43.8	44.9
Instruments and related products .....	41.8	41.8	41.8	41.9	42.0	41.6	42.1	42.0	41.9	41.9	41.8	41.6	42.2
Miscellaneous manufacturing .....	39.7	39.9	39.8	39.9	40.4	39.9	40.5	40.2	40.5	40.3	40.1	40.4	40.1
<b>Nondurable goods</b> .....	40.6	40.7	40.6	40.7	40.9	40.7	40.8	40.9	40.9	40.8	40.6	40.7	40.7
<i>Overtime hours</i> .....	4.1	4.1	4.1	4.2	4.3	4.2	4.3	4.4	4.4	4.3	4.1	4.3	4.3
Food and kindred products .....	40.8	41.0	41.1	41.1	41.3	41.2	41.3	41.3	41.1	41.4	40.9	41.2	41.0
Tobacco products .....	39.7	40.4	39.8	40.6	41.1	39.9	40.8	40.2	39.0	38.4	37.6	35.8	37.9
Textile mill products .....	40.9	40.9	40.9	41.2	41.5	41.2	40.9	41.2	41.7	41.4	41.2	41.3	41.3
Apparel and other textile products .....	37.4	37.3	37.3	37.3	37.4	37.2	37.2	37.5	37.5	37.1	37.4	36.9	37.2
Paper and allied products .....	43.4	43.5	43.4	43.6	43.7	43.7	43.7	43.8	43.9	43.8	43.4	43.5	43.4
Printing and publishing .....	38.3	38.3	38.2	38.2	38.4	38.3	38.5	38.6	38.5	38.3	38.3	38.4	38.3
Chemicals and allied products .....	43.2	43.1	43.1	43.3	43.5	43.2	43.3	43.3	43.1	43.3	43.1	43.0	43.4
Petroleum and coal products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Rubber and misc. plastics products .....	41.6	41.6	41.5	41.3	41.8	41.4	41.7	41.8	42.0	41.6	41.5	41.7	41.7
Leather and leather products .....	38.6	38.7	38.6	38.9	38.8	38.4	38.9	38.7	38.5	38.2	38.1	38.3	38.3
<b>Service-producing</b> .....	32.7	32.9	32.6	32.7	33.0	32.7	33.0	33.0	32.7	32.7	32.9	32.7	32.9
<b>Transportation and public utilities</b> .....	39.7	39.8	39.6	39.8	39.9	39.5	39.7	39.8	39.3	39.5	39.6	39.1	40.0
<b>Wholesale trade</b> .....	38.3	38.4	38.2	38.3	38.5	38.2	38.6	38.6	38.4	38.4	38.5	38.4	38.4
<b>Retail trade</b> .....	28.8	28.9	28.8	28.9	29.0	28.8	29.1	29.1	28.9	28.9	28.9	28.8	29.2
<b>Finance, insurance, and real estate</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Services</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>	Aug. <sup>P</sup>
<b>Total private</b> .....	137.1	137.9	137.2	137.9	139.1	138.2	140.0	140.2	139.6	140.0	140.6	140.3	140.8
<b>Goods-producing</b> .....	111.4	111.3	111.4	111.7	112.4	112.0	113.1	113.3	113.3	113.7	112.7	112.8	113.0
<b>Mining</b> .....	55.1	54.9	55.0	55.2	55.7	54.8	56.4	56.6	55.8	57.3	56.3	56.1	55.5
<b>Construction</b> .....	148.2	148.1	149.4	150.0	151.2	151.0	154.5	154.0	153.2	156.2	152.8	154.0	152.7
<b>Manufacturing</b> .....	107.2	107.1	106.9	107.2	107.8	107.4	107.9	108.3	108.5	108.3	107.8	107.7	108.2
<b>Durable goods</b> .....	109.5	109.4	109.2	109.6	110.3	110.0	110.7	111.3	111.7	111.4	111.0	111.0	112.1
Lumber and wood products .....	139.3	138.6	139.4	140.1	140.9	140.3	140.7	142.2	143.3	142.9	142.2	142.3	141.9
Furniture and fixtures .....	123.9	123.9	123.6	124.5	125.7	125.1	125.7	127.3	126.7	128.0	126.7	127.0	127.6
Stone, clay, and glass products .....	109.9	109.9	110.7	110.2	111.0	108.9	111.0	110.0	109.2	110.2	108.7	110.0	109.7
Primary metal industries .....	93.2	93.2	92.9	92.7	93.3	93.1	93.5	93.9	94.5	93.9	94.0	93.2	96.1
Blast furnaces and basic steel products .....	74.0	74.0	72.9	72.9	72.9	73.4	72.9	73.2	73.8	72.6	72.3	72.1	75.2
Fabricated metal products .....	115.0	115.1	114.9	115.1	115.5	115.7	116.2	116.7	118.0	117.1	116.8	116.6	116.7
Industrial machinery and equipment .....	104.6	104.4	104.6	104.9	105.7	106.0	106.9	107.7	109.2	108.5	108.1	108.4	109.1
Electronic and other electrical equipment .....	108.4	108.1	107.5	107.4	108.0	106.6	108.3	108.8	109.1	108.2	108.5	109.3	109.8
Transportation equipment .....	124.9	124.2	123.1	124.7	125.5	126.4	126.1	127.6	126.5	126.8	126.2	125.1	129.3
Motor vehicles and equipment .....	168.1	166.6	163.7	164.3	165.6	167.7	165.9	167.9	164.4	165.4	165.6	161.7	168.8
Instruments and related products .....	75.4	75.4	75.4	75.6	75.8	75.1	78.0	75.4	75.1	75.1	75.2	74.7	75.2
Miscellaneous manufacturing .....	101.3	101.8	101.5	101.8	103.4	102.5	104.1	102.5	103.3	103.2	102.3	103.4	102.3
<b>Nondurable goods</b> .....	104.0	103.9	103.9	103.9	104.5	104.0	104.0	104.3	104.2	104.0	103.4	103.1	102.9
Food and kindred products .....	114.7	115.1	115.7	116.0	116.9	117.0	117.0	117.4	117.0	117.3	115.8	115.8	115.0
Tobacco products .....	61.0	64.0	63.1	66.4	65.1	63.2	64.7	63.7	59.9	58.9	57.8	56.8	56.3
Textile mill products .....	89.2	89.0	89.2	89.4	90.0	89.4	88.2	88.8	89.6	88.8	86.2	88.4	87.9
Apparel and other textile products .....	76.9	76.4	76.0	75.5	75.3	74.6	74.2	74.3	73.9	73.0	73.2	71.9	71.4
Paper and allied products .....	109.0	109.4	109.4	109.9	110.2	110.2	110.2	110.2	110.4	110.4	109.0	109.0	108.8
Printing and publishing .....	124.0	123.7	123.6	123.4	123.9	123.3	123.9	124.3	124.7	125.1	125.2	125.4	124.5
Chemicals and allied products .....	101.0	100.6	100.4	100.7	101.0	100.1	100.3	100.3	99.9	100.5	99.7	99.4	100.6
Petroleum and coal products .....	77.1	76.8	75.0	76.6	77.0	78.0	76.3	76.1	73.6	75.0	74.2	73.7	74.6
Rubber and misc. plastics products .....	144.1	143.8	143.4	142.9	144.5	143.1	144.5	145.0	145.9	144.7	144.2	144.1	144.9
Leather and leather products .....	43.3	42.8	42.7	42.4	43.5	42.5	43.0	42.8	42.0	41.7	41.0	40.0	40.0
<b>Service-producing</b> .....	148.6	149.9	148.7	149.7	151.0	150.0	152.1	152.3	151.3	151.8	153.1	152.6	153.3
<b>Transportation and public utilities</b> .....	128.7	129.0	128.5	129.2	129.3	129.3	130.5	131.4	130.1	131.0	131.3	129.8	128.3
<b>Wholesale trade</b> .....	123.2	123.9	123.7	124.2	125.0	124.3	125.9	126.3	125.7	125.9	126.2	126.2	126.2
<b>Retail trade</b> .....	135.2	135.8	135.9	136.7	137.6	136.7	138.2	138.5	137.9	138.0	138.2	138.1	140.2
<b>Finance, insurance, and real estate</b> .....	125.2	128.1	123.8	126.0	126.3	124.7	128.9	129.0	126.7	127.3	130.5	127.7	128.9
<b>Services</b> .....	178.0	179.9	178.2	179.1	181.1	180.2	182.8	182.6	181.7	182.3	184.5	184.3	184.9

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

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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		
	June 1997 <sup>r</sup>	July 1997 <sup>r</sup>	Aug. 1997 <sup>P</sup>	Aug. 1996 to Aug. 1997 <sup>P</sup>	June 1997 to July 1997 <sup>r</sup>	July 1997 to Aug. 1997 <sup>P</sup>
Total .....	223,961	222,698	225,866	2.6	-0.6	1.4
Private sector .....	187,160	186,754	187,696	2.8	-.2	.5
Mining .....	1,358	1,345	1,332	-1.2	-1.0	-.9
Construction .....	11,314	11,401	11,305	3.1	.8	-.8
Manufacturing .....	40,132	40,089	40,266	.8	-.1	.4
Durable goods .....	23,982	23,983	24,155	1.9	.0	.7
Nondurable goods .....	16,150	16,106	16,111	-.8	-.3	.0
Transportation and public utilities .....	13,263	13,160	13,108	.7	-.8	-.4
Wholesale trade .....	13,281	13,307	13,323	3.0	.2	.1
Retail trade .....	33,180	33,172	33,680	3.7	.0	1.5
Finance, insurance, and real estate .....	13,488	13,176	13,298	2.9	-2.3	.9
Services .....	61,144	61,104	61,385	4.1	-.1	.5
Government .....	36,800	35,944	38,170	1.5	-2.3	6.2

<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' on private nonfarm payrolls by major industry, seasonally adjusted**

Industry	1996					1997							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>p</sup>	Aug. <sup>p</sup>
<b>Average hourly earnings</b>													
<b>Total private (in current dollars)</b> .....	\$11.86	\$11.91	\$11.91	\$11.98	\$12.03	\$12.05	\$12.10	\$12.14	\$12.14	\$12.19	\$12.23	\$12.24	\$12.29
<b>Goods-producing</b> .....	13.54	13.57	13.57	13.62	13.69	13.73	13.76	13.79	13.80	13.85	13.86	13.86	13.95
<b>Mining</b> .....	15.65	15.70	15.67	15.77	15.88	15.98	15.96	15.94	15.96	16.05	16.12	16.09	16.10
<b>Construction</b> .....	15.52	15.59	15.58	15.58	15.69	15.73	15.79	15.80	15.86	15.91	15.95	15.95	16.03
<b>Manufacturing</b> .....	12.85	12.87	12.87	12.93	12.99	13.02	13.03	13.07	13.07	13.11	13.12	13.12	13.22
<b>Excluding overtime<sup>2</sup></b> .....	12.19	12.20	12.21	12.26	12.29	12.34	12.35	12.37	12.38	12.38	12.42	12.41	12.50
<b>Service-producing</b> .....	11.29	11.35	11.35	11.43	11.47	11.49	11.54	11.59	11.58	11.63	11.69	11.70	11.74
<b>Transportation and public utilities</b> .....	14.50	14.51	14.43	14.53	14.56	14.74	14.64	14.73	14.76	14.80	14.85	14.95	14.95
<b>Wholesale trade</b> .....	12.91	13.03	12.93	13.08	13.17	13.12	13.23	13.30	13.27	13.33	13.42	13.37	13.52
<b>Retail trade</b> .....	8.01	8.04	8.10	8.13	8.16	8.19	8.21	8.25	8.26	8.28	8.30	8.31	8.35
<b>Finance, insurance, and real estate</b> .....	12.84	12.91	12.86	12.98	13.00	12.95	13.08	13.12	13.00	13.18	13.29	13.26	13.38
<b>Services</b> .....	11.83	11.89	11.91	11.99	12.04	12.05	12.12	12.16	12.16	12.20	12.26	12.26	12.32
<b>Total private (in constant (1982) dollars)<sup>3</sup></b> .....	7.44	7.45	7.42	7.44	7.45	7.46	7.47	7.49	7.49	7.52	7.54	7.53	( <sup>4</sup> )
<b>Goods-producing</b> .....	8.49	8.49	8.45	8.46	8.48	8.50	8.50	8.51	8.52	8.55	8.55	8.53	( <sup>4</sup> )
<b>Service-producing</b> .....	7.08	7.10	7.07	7.10	7.11	7.11	7.13	7.15	7.15	7.18	7.21	7.20	( <sup>4</sup> )
<b>Average weekly earnings</b>													
<b>Total private (in current dollars)</b> .....	409.17	413.28	409.70	413.31	417.44	414.52	421.08	422.47	418.83	420.56	423.16	422.28	426.46
<b>Goods-producing</b> .....	556.49	557.73	557.73	559.78	565.40	564.30	566.91	570.91	571.32	573.39	569.65	571.03	574.74
<b>Mining</b> .....	707.38	711.21	711.42	714.38	725.72	714.31	730.97	731.65	722.99	738.30	731.85	728.88	722.89
<b>Construction</b> .....	602.18	603.33	606.06	604.50	610.34	607.18	612.65	614.62	616.95	626.85	617.27	622.05	618.76
<b>Manufacturing</b> .....	535.85	536.68	536.68	539.18	545.58	544.24	545.96	550.25	550.25	550.62	548.42	548.42	553.92
<b>Service-producing</b> .....	369.18	373.42	370.01	373.76	378.51	375.72	380.82	382.47	378.67	380.30	384.60	382.59	386.25
<b>Transportation and public utilities</b> .....	575.65	577.50	571.43	578.29	580.94	582.23	581.21	586.25	580.07	584.60	588.06	584.55	598.00
<b>Wholesale trade</b> .....	494.45	500.35	493.93	500.96	507.05	501.18	510.68	513.38	509.57	511.87	516.67	513.41	519.17
<b>Retail trade</b> .....	230.69	232.36	233.28	234.96	236.64	235.87	238.91	240.08	238.71	239.29	239.87	239.33	243.82
<b>Finance, insurance, and real estate</b> .....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
<b>Services</b> .....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
<b>Total private (in constant (1982) dollars)<sup>3</sup></b> .....	256.69	258.46	255.26	256.71	258.64	256.51	260.09	260.78	258.54	259.60	260.89	259.86	( <sup>4</sup> )
<b>Goods-producing</b> .....	349.12	348.80	347.50	347.69	350.31	349.20	350.16	352.41	352.67	353.94	351.20	351.40	( <sup>4</sup> )
<b>Service-producing</b> .....	231.61	233.53	230.54	232.15	234.52	232.50	235.22	236.09	233.75	234.75	237.11	235.44	( <sup>4</sup> )

<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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Total</b> .....		119,481	119,733	123,111	122,213	122,231	-	-	-	-	-
<b>Total private</b> .....		101,098	101,453	103,409	103,590	103,731	82,920	83,256	84,879	85,006	85,071
<b>Mining</b> .....		585	584	580	584	582	435	436	440	443	442
Metal mining .....	10	55.4	55.5	55.5	55.0	54.9	44.0	43.8	42.6	42.1	-
Iron ores .....	101	8.8	8.7	8.9	8.4	-	7.3	7.2	7.4	6.9	-
Copper ores .....	102	16.5	16.6	16.4	16.6	-	13.0	13.0	12.3	12.5	-
Coal mining .....	12	97.5	96.0	92.8	92.0	91.2	79.3	78.2	76.1	75.4	-
Bituminous coal and lignite mining .....	122	90.6	89.2	86.7	86.0	-	73.6	72.6	70.9	70.3	-
Oil and gas extraction .....	13	321.2	322.0	320.2	324.3	323.5	227.3	229.5	235.6	239.8	-
Crude petroleum and natural gas .....	131	145.0	143.5	133.1	133.3	-	80.3	80.5	76.8	77.0	-
Oil and gas field services .....	138	171.0	173.3	182.9	186.7	-	143.1	145.1	155.4	159.3	-
Nonmetallic minerals, except fuels .....	14	110.5	110.9	111.9	112.2	112.1	84.5	84.9	85.4	85.7	-
Crushed and broken stone .....	142	41.8	42.1	42.4	42.3	-	33.0	33.2	33.2	33.3	-
Sand and gravel .....	144	37.5	37.9	38.5	38.8	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	12.9	12.5	12.1	12.2	-	-	-	-	-	-
<b>Construction</b> .....		5,731	5,767	5,829	5,944	5,974	4,492	4,528	4,549	4,656	4,685
General building contractors .....	15	1,315.0	1,321.9	1,338.7	1,365.2	1,369.3	941.6	948.3	951.2	975.6	-
Residential building construction .....	152	671.6	674.6	685.9	699.0	-	462.7	465.0	470.4	482.3	-
Operative builders .....	153	27.2	27.3	28.1	28.2	-	12.0	11.8	11.4	11.5	-
Nonresidential building construction .....	154	618.2	620.0	624.7	638.0	-	466.9	471.5	469.4	481.8	-
Heavy construction, except building .....	16	841.2	848.0	819.0	827.2	835.7	710.7	718.6	689.6	697.0	-
Highway and street construction .....	161	280.2	283.5	277.6	284.1	-	233.9	237.1	232.8	238.8	-
Heavy construction, except highway .....	162	561.0	564.5	541.4	543.1	-	476.8	481.5	457.0	458.2	-
Special trade contractors .....	17	3,575.0	3,597.3	3,671.2	3,751.8	3,769.1	2,839.8	2,861.4	2,907.7	2,983.3	-
Plumbing, heating, and air conditioning .....	171	766.6	783.2	802.3	817.8	-	584.5	581.4	593.8	608.1	-
Painting and paper hanging .....	172	210.3	211.9	214.4	222.3	-	175.8	177.9	179.7	187.3	-
Electrical work .....	173	656.1	660.2	679.0	695.9	-	518.9	522.9	535.1	550.7	-
Masonry, stonework, and plastering .....	174	465.1	472.0	484.6	493.5	-	403.5	410.8	418.3	426.1	-
Carpentry and floor work .....	175	244.0	247.5	259.6	267.2	-	185.8	189.0	199.9	206.9	-
Roofing, siding, and sheet metal work .....	176	245.4	249.3	245.9	252.5	-	200.7	204.6	197.8	204.2	-
<b>Manufacturing</b> .....		18,400	18,577	18,609	18,458	18,664	12,665	12,847	12,866	12,709	12,911
<b>Durable goods</b> .....		10,718	10,803	10,954	10,852	10,986	7,309	7,391	7,525	7,413	7,524
Lumber and wood products .....	24	791.4	798.7	807.8	807.7	814.8	651.0	659.1	665.8	664.7	671.9
Logging .....	241	82.2	83.8	80.5	82.3	-	66.3	67.6	64.6	65.7	-
Sawmills and planing mills .....	242	183.0	184.7	188.7	188.4	-	158.6	160.5	164.5	164.5	-
Sawmills and planing mills, general .....	2421	146.4	147.3	150.6	151.0	-	126.6	127.5	130.8	131.4	-
Hardwood dimension and flooring mills .....	2426	34.8	35.6	36.1	35.5	-	30.5	31.4	32.0	31.5	-
Millwork, plywood, and structural members .....	243	292.7	295.2	300.6	301.1	-	235.3	239.0	241.5	241.5	-
Millwork .....	2431	117.1	116.0	120.0	120.9	-	90.7	92.0	92.3	92.8	-
Wood kitchen cabinets .....	2434	79.5	79.7	82.4	82.8	-	64.1	64.4	66.7	66.9	-
Hardwood veneer and plywood .....	2435	26.7	27.8	28.4	27.4	-	22.9	23.6	24.2	23.2	-
Softwood veneer and plywood .....	2436	31.1	31.0	30.7	30.8	-	28.0	28.9	28.4	28.5	-
Wood containers .....	244	53.0	52.7	54.0	54.5	-	45.0	44.7	46.4	46.7	-
Wood buildings and mobile homes .....	245	91.3	92.6	92.6	92.1	-	73.3	74.0	74.5	73.9	-
Mobile homes .....	2451	69.2	70.3	69.4	68.5	-	58.2	58.8	58.4	57.6	-
Miscellaneous wood products .....	249	89.2	89.9	91.4	89.3	-	72.5	73.3	74.3	72.4	-
Furniture and fixtures .....	25	494.1	503.1	510.3	500.1	506.0	388.8	397.4	405.4	395.5	402.4
Household furniture .....	251	267.7	271.6	274.2	266.4	-	223.5	227.3	231.7	224.3	-
Wood household furniture .....	2511	121.5	123.8	123.6	120.7	-	104.1	106.3	107.3	104.8	-
Upholstered household furniture .....	2512	83.9	84.8	86.0	84.0	-	70.4	71.4	72.7	70.7	-
Metal household furniture .....	2514	18.5	18.0	19.8	16.7	-	14.6	14.2	16.4	13.4	-
Mattresses and bedsprings .....	2515	32.3	32.6	33.3	33.6	-	24.8	25.0	25.7	25.9	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures—Continued											
Office furniture .....	252	62.3	62.3	62.6	62.7	-	46.0	46.2	46.3	46.3	-
Public building and related furniture .....	253	40.6	44.6	45.8	42.8	-	31.7	35.3	36.1	33.3	-
Partitions and fixtures .....	254	85.5	86.1	88.1	88.4	-	63.1	63.6	65.3	65.6	-
Miscellaneous furniture and fixtures .....	259	38.0	38.5	39.6	39.8	-	24.5	25.0	26.0	26.0	-
Stone, clay, and glass products .....	32	548.2	552.5	550.1	549.7	552.2	427.0	431.6	429.8	429.5	432.9
Flat glass .....	321	15.3	15.7	15.4	15.3	-	12.2	12.5	12.3	12.2	-
Glass and glassware, pressed or blown .....	322	70.1	72.3	69.8	69.9	-	58.7	61.0	57.6	58.0	-
Glass containers .....	3221	27.5	27.9	25.2	25.1	-	24.7	25.2	22.5	22.6	-
Pressed and blown glass, nec .....	3229	42.6	44.4	44.6	44.8	-	34.0	35.8	35.1	35.4	-
Products of purchased glass .....	323	59.5	60.7	59.0	57.8	-	46.1	47.3	46.1	44.8	-
Cement, hydraulic .....	324	17.9	17.7	17.9	18.0	-	13.7	13.5	13.8	13.9	-
Structural clay products .....	325	33.6	33.6	33.4	32.9	-	26.1	26.3	26.1	25.6	-
Pottery and related products .....	326	39.9	40.0	39.2	39.5	-	31.6	31.7	31.1	31.2	-
Concrete, gypsum, and plaster products .....	327	221.4	221.6	223.3	224.9	-	170.7	170.7	172.5	174.0	-
Concrete block and brick .....	3271	18.3	18.2	18.9	18.9	-	11.6	11.6	12.2	12.2	-
Concrete products, nec .....	3272	71.8	72.5	73.8	74.4	-	54.3	55.0	56.2	56.7	-
Ready-mixed concrete .....	3273	113.4	113.0	113.0	113.9	-	90.6	90.3	90.2	91.1	-
Misc. nonmetallic mineral products .....	329	76.1	76.3	77.1	76.6	-	57.5	57.9	59.3	58.9	-
Abrasive products .....	3291	19.5	19.7	19.8	19.6	-	15.2	15.5	15.7	15.7	-
Asbestos products .....	3292	2.7	2.7	2.7	2.6	-	2.2	2.2	2.2	2.1	-
Mineral wool .....	3296	23.8	23.9	24.0	24.0	-	-	-	-	-	-
Primary metal industries .....	33	700.3	711.9	711.5	702.7	717.1	543.1	554.0	556.3	547.7	560.3
Blast furnaces and basic steel products .....	331	241.3	242.0	236.6	235.3	240.3	185.8	186.3	182.3	181.4	185.1
Blast furnaces and steel mills .....	3312	171.3	171.0	163.0	163.0	-	133.0	132.4	126.7	126.7	-
Steel pipe and tubes .....	3317	26.6	26.4	27.3	26.7	-	19.9	20.0	20.7	20.1	-
Iron and steel foundries .....	332	125.7	128.5	130.2	128.6	-	102.2	104.8	106.8	104.9	-
Gray and ductile iron foundries .....	3321	78.4	81.7	81.6	79.8	-	64.4	67.4	67.4	65.5	-
Malleable iron foundries .....	3322	3.9	4.1	3.8	3.8	-	3.1	3.2	3.0	3.0	-
Steel foundries, nec .....	3325	27.1	26.5	26.9	26.9	-	22.0	21.5	22.1	22.0	-
Primary nonferrous metals .....	333	38.6	39.6	39.2	39.3	-	29.2	30.4	30.1	30.2	-
Primary aluminum .....	3334	21.9	22.9	22.3	22.3	-	17.1	18.1	17.9	18.0	-
Nonferrous rolling and drawing .....	335	165.0	168.1	168.8	167.2	-	124.2	127.3	129.6	127.8	-
Copper rolling and drawing .....	3351	22.3	22.4	22.4	22.1	-	17.2	17.4	17.6	17.3	-
Aluminum sheet, plate, and foil .....	3353	21.4	21.8	21.5	21.5	-	15.4	15.8	16.0	15.9	-
Nonferrous wire drawing and insulating .....	3357	70.2	72.2	72.6	71.6	-	52.6	54.4	55.2	54.2	-
Nonferrous foundries (castings) .....	336	85.3	89.1	90.9	87.1	-	69.4	72.6	73.9	70.2	-
Aluminum foundries .....	3365	23.4	24.3	24.6	23.4	-	19.2	19.9	20.1	19.0	-
Fabricated metal products .....	34	1,436.4	1,452.2	1,478.1	1,452.9	1,470.4	1,076.3	1,091.3	1,116.4	1,091.8	1,109.8
Metal cans and shipping containers .....	341	39.8	39.6	38.3	38.2	-	34.1	34.0	32.9	32.8	-
Metal cans .....	3411	32.2	32.1	31.0	30.9	-	28.0	27.9	27.0	26.8	-
Cutlery, handtools, and hardware .....	342	122.0	124.6	126.8	123.6	-	91.4	93.9	96.6	93.4	-
Hand and edge tools, and blades and handsaws .....	3423,5	42.7	43.4	43.1	41.9	-	32.7	33.6	33.3	32.1	-
Hardware, nec .....	3429	67.4	69.1	71.1	69.3	-	50.9	52.4	54.1	52.3	-
Plumbing and heating, except electric .....	343	57.2	58.8	58.7	58.4	-	40.7	42.1	42.2	41.4	-
Plumbing fixture fittings and trim .....	3432	22.9	23.2	23.3	23.2	-	16.6	16.8	17.1	16.6	-
Heating equipment, except electric .....	3433	20.3	21.4	21.2	21.0	-	13.5	14.6	14.3	14.1	-
Fabricated structural metal products .....	344	441.4	444.7	450.0	449.2	-	322.8	325.8	330.6	329.6	-
Fabricated structural metal .....	3441	74.8	74.9	76.8	76.4	-	54.9	55.0	56.6	56.1	-
Metal doors, sash, and trim .....	3442	78.1	79.0	77.5	77.5	-	58.2	58.8	57.7	57.6	-
Fabricated plate work (boiler shops) .....	3443	99.6	101.0	100.9	100.1	-	71.4	72.5	72.5	72.0	-
Sheet metal work .....	3444	117.7	117.9	121.7	122.0	-	90.3	90.8	93.9	93.9	-
Architectural metal work .....	3446	29.8	30.2	30.0	30.1	-	21.0	21.4	21.5	21.7	-
Screw machine products, bolts, etc .....	345	99.6	99.7	103.9	101.7	-	77.9	78.1	81.6	79.6	-
Screw machine products .....	3451	51.5	51.3	54.1	52.5	-	41.9	41.7	44.1	42.6	-
Bolts, nuts, rivets, and washers .....	3452	48.1	48.4	49.8	49.2	-	36.0	36.4	37.5	37.0	-
Metal forgings and stampings .....	346	245.0	251.0	255.3	241.9	-	195.3	200.7	204.1	191.0	-
Iron and steel forgings .....	3462	29.6	30.1	32.1	31.5	-	22.5	23.0	24.7	24.0	-
Automotive stampings .....	3465	112.0	115.9	115.2	104.2	-	93.7	97.0	95.4	84.8	-
Metal stampings, nec .....	3469	91.6	93.0	96.7	95.1	-	70.1	71.6	75.5	73.9	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Metal services, nec .....	347	132.6	133.8	143.4	141.0	-	104.1	105.5	115.2	113.4	-
Plating and polishing .....	3471	80.6	81.7	88.4	87.5	-	63.5	64.5	71.5	71.2	-
Metal coating and allied services .....	3479	52.0	52.1	55.0	53.5	-	40.6	41.0	43.7	42.2	-
Ordnance and accessories, nec .....	348	47.0	47.4	42.9	42.6	-	25.7	26.0	23.1	22.6	-
Ammunition, except for small arms, nec .....	3483	24.2	24.3	22.4	22.3	-	10.2	10.4	9.5	9.4	-
Miscellaneous fabricated metal products .....	349	251.8	252.6	258.8	256.3	-	184.3	185.2	190.1	188.0	-
Valves and pipe fittings, nec .....	3494	25.1	25.0	25.4	25.5	-	18.8	18.7	18.8	18.8	-
Misc. fabricated wire products .....	3496	54.1	54.6	55.5	54.3	-	40.8	41.3	42.0	41.0	-
Industrial machinery and equipment .....	35	2,108.8	2,106.7	2,163.5	2,148.9	2,157.7	1,309.8	1,310.1	1,361.4	1,345.1	1,351.5
Engines and turbines .....	351	84.4	83.2	82.9	80.5	-	52.7	52.0	53.5	51.2	-
Turbines and turbine generator sets .....	3511	24.5	24.6	24.4	24.3	-	13.6	13.8	13.6	13.4	-
Internal combustion engines, nec .....	3519	59.9	58.6	58.5	56.2	-	39.1	38.2	39.9	37.8	-
Farm and garden machinery .....	352	94.0	94.9	104.9	103.0	-	66.4	67.5	76.1	73.7	-
Farm machinery and equipment .....	3523	71.8	72.6	77.3	77.4	-	51.1	51.8	55.8	55.7	-
Construction and related machinery .....	353	232.1	232.0	240.7	240.8	-	150.3	150.2	156.2	156.3	-
Construction machinery .....	3531	86.0	85.8	88.4	87.4	-	58.4	58.1	60.6	59.8	-
Mining machinery .....	3532	16.5	16.3	16.8	16.7	-	9.7	9.4	10.0	9.9	-
Oil and gas field machinery .....	3533	40.7	41.0	44.3	45.3	-	27.4	27.7	29.8	30.4	-
Conveyors and conveying equipment .....	3535	40.8	40.5	42.1	42.2	-	22.8	23.0	23.5	23.7	-
Industrial trucks and tractors .....	3537	29.8	30.2	30.5	30.5	-	20.6	20.7	21.0	21.1	-
Metalworking machinery .....	354	344.3	343.7	350.7	347.0	-	243.1	242.8	249.9	246.3	-
Machine tools, metal cutting types .....	3541	41.1	41.2	42.2	41.8	-	25.0	25.1	26.2	26.1	-
Machine tools, metal forming types .....	3542	17.3	17.2	17.3	17.3	-	11.1	11.0	11.0	11.0	-
Special dies, tools, jigs, and fixtures .....	3544	164.0	163.6	168.9	165.7	-	124.4	123.9	129.2	126.2	-
Machine tool accessories .....	3545	52.5	52.5	53.2	53.1	-	36.6	36.6	37.3	37.2	-
Power driven handtools .....	3546	23.0	23.0	21.6	21.8	-	15.7	15.8	15.1	15.2	-
Special industry machinery .....	355	178.5	176.9	177.1	176.4	-	99.0	97.8	98.5	97.9	-
Textile machinery .....	3552	14.9	14.8	14.9	14.6	-	9.8	9.7	10.0	9.8	-
Printing trades machinery .....	3555	22.8	22.5	22.0	21.8	-	12.6	12.4	12.6	12.4	-
Food products machinery .....	3556	25.7	25.3	25.5	25.2	-	15.5	15.2	15.1	14.9	-
General industrial machinery .....	356	256.7	257.4	259.3	256.7	-	163.3	164.6	165.3	162.6	-
Pumps and pumping equipment .....	3561	29.5	30.2	30.8	30.4	-	16.7	17.3	17.5	17.1	-
Ball and roller bearings .....	3562	39.2	39.8	39.7	38.8	-	30.9	31.9	31.0	29.9	-
Air and gas compressors .....	3563	26.3	26.1	25.9	25.7	-	15.3	15.3	15.1	14.9	-
Blowers and fans .....	3564	35.3	35.2	35.6	35.6	-	23.3	23.3	23.9	23.9	-
Speed changers, drives, and gears .....	3566	17.5	17.4	17.8	17.7	-	12.3	12.2	12.7	12.6	-
Power transmission equipment, nec .....	3568	21.4	21.5	21.7	21.6	-	14.8	14.9	15.0	14.9	-
Computer and office equipment .....	357	364.4	364.2	381.2	383.8	385.3	128.2	127.8	143.2	143.8	-
Electronic computers .....	3571	188.3	188.5	196.3	198.3	-	53.8	53.8	64.0	65.5	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	58.5	58.6	61.2	61.0	-	23.0	23.1	24.8	24.5	-
Refrigeration and service machinery .....	358	205.8	206.3	207.3	202.5	-	148.2	148.8	149.4	145.4	-
Refrigeration and heating equipment .....	3585	143.5	143.7	142.9	138.2	-	109.4	109.5	109.2	105.2	-
Misc. industrial and commercial machinery .....	359	348.6	348.1	359.4	358.2	-	258.6	258.6	269.3	267.9	-
Carburetors, pistons, rings, valves .....	3592	22.2	22.7	23.5	23.3	-	17.2	17.7	18.6	18.3	-
Scales, balances, and industrial machinery, nec .....	3596,9	280.5	279.4	287.8	286.5	-	213.2	212.6	220.7	219.5	-
Electronic and other electrical equipment .....	36	1,648.1	1,652.8	1,654.7	1,651.5	1,663.7	1,044.3	1,047.7	1,046.0	1,039.0	1,053.6
Electric distribution equipment .....	361	80.8	81.5	80.1	79.8	-	54.8	55.4	54.9	54.5	-
Transformers, except electronic .....	3612	39.5	40.0	37.6	37.1	-	27.9	28.3	26.6	26.2	-
Switchgear and switchboard apparatus .....	3613	41.3	41.5	42.5	42.7	-	26.9	27.1	28.3	28.3	-
Electrical industrial apparatus .....	362	155.5	153.4	154.3	153.0	-	108.6	106.3	107.3	105.8	-
Motors and generators .....	3621	75.4	73.2	74.1	73.8	-	58.6	56.3	57.5	57.0	-
Relays and industrial controls .....	3625	60.3	60.0	59.9	59.0	-	35.7	35.4	34.9	34.2	-
Household appliances .....	363	121.6	122.0	115.3	113.8	-	96.9	96.7	90.3	88.4	-
Household refrigerators and freezers .....	3632	31.1	30.7	25.4	25.0	-	25.8	25.4	19.5	18.6	-
Household laundry equipment .....	3633	16.9	17.1	17.5	16.9	-	13.7	13.8	13.8	13.2	-
Electric housewares and fans .....	3634	27.9	28.2	26.7	25.6	-	21.6	21.9	20.8	19.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Electronic and other electrical equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	174.9	177.7	177.7	176.3	-	124.6	127.5	127.3	125.8	-
Electric lamps .....	3641	22.3	22.5	22.6	22.6	-	17.1	17.3	17.4	17.5	-
Current-carrying wiring devices .....	3643	61.7	61.8	62.2	61.4	-	40.2	40.6	40.9	40.2	-
Noncurrent-carrying wiring devices .....	3644	16.6	17.1	17.8	17.5	-	12.7	13.2	13.6	13.2	-
Residential lighting fixtures .....	3645	19.6	20.1	19.7	19.1	-	14.7	15.1	14.7	14.2	-
Household audio and video equipment .....	365	82.2	82.8	77.3	76.4	-	55.2	55.8	49.7	48.6	-
Household audio and video equipment .....	3651	54.7	55.1	52.5	52.0	-	34.2	34.4	30.8	30.0	-
Communications equipment .....	366	270.1	269.9	272.9	274.2	-	129.6	128.7	129.1	129.6	-
Telephone and telegraph apparatus .....	3661	112.5	112.6	113.6	113.6	-	57.7	57.3	55.9	55.9	-
Electronic components and accessories .....	367	613.3	612.4	629.4	634.0	638.9	366.5	365.5	380.8	384.2	-
Electron tubes .....	3671	23.0	23.1	22.5	22.3	-	15.9	16.2	16.3	16.2	-
Semiconductors and related devices .....	3674	260.7	259.3	266.1	270.4	-	117.1	115.6	120.8	124.3	-
Electronic components, nec .....	3679	136.6	136.3	140.6	140.8	-	90.8	90.9	95.6	95.6	-
Misc. electrical equipment and supplies .....	369	149.7	153.1	147.7	144.0	-	108.1	111.8	106.6	102.1	-
Storage batteries .....	3691	26.6	27.7	26.8	25.9	-	20.8	21.8	20.6	19.6	-
Engine electrical equipment .....	3694	65.6	68.5	65.7	63.2	-	51.3	54.5	52.2	48.9	-
Transportation equipment .....	37	1,757.6	1,781.9	1,831.6	1,800.4	1,839.7	1,183.9	1,205.2	1,248.0	1,215.5	1,251.4
Motor vehicles and equipment .....	371	941.2	965.8	974.5	942.1	976.3	738.1	759.6	774.3	742.1	774.4
Motor vehicles and car bodies .....	3711	333.5	343.5	335.3	319.0	-	254.6	261.4	260.9	245.2	-
Truck and bus bodies .....	3713	39.5	40.0	42.2	41.7	-	31.9	32.2	33.5	32.9	-
Motor vehicle parts and accessories .....	3714	515.1	529.8	541.4	526.7	-	408.8	423.9	434.6	419.7	-
Truck trailers .....	3715	34.4	34.3	36.4	35.8	-	27.3	27.2	29.4	28.6	-
Aircraft and parts .....	372	456.1	457.1	503.7	507.9	511.2	217.7	217.7	251.9	254.1	-
Aircraft .....	3721	241.1	240.9	265.3	267.7	-	95.7	94.6	110.8	112.1	-
Aircraft engines and engine parts .....	3724	94.3	94.7	100.6	100.6	-	49.0	49.2	54.3	53.8	-
Aircraft parts and equipment, nec .....	3728	120.7	121.5	137.8	139.6	-	73.0	73.9	86.8	88.2	-
Ship and boat building and repairing .....	373	157.0	156.2	150.3	148.6	-	119.8	120.1	114.1	112.8	-
Ship building and repairing .....	3731	101.5	100.7	94.0	93.1	-	73.6	73.8	67.1	66.6	-
Boat building and repairing .....	3732	55.5	55.5	56.3	55.5	-	46.2	46.3	47.0	46.2	-
Railroad equipment .....	374	36.2	36.2	34.6	34.5	-	27.0	27.1	26.0	26.0	-
Guided missiles, space vehicles, and parts .....	376	89.9	90.0	90.9	90.8	-	24.8	24.6	24.4	24.5	-
Guided missiles and space vehicles .....	3761	62.3	62.4	63.1	63.1	-	15.6	15.5	15.5	15.6	-
Miscellaneous transportation equipment .....	379	54.2	54.1	53.6	52.2	-	39.3	39.3	39.3	37.9	-
Travel trailers and campers .....	3792	22.8	22.9	22.1	21.8	-	19.4	19.5	18.5	18.3	-
Instruments and related products .....	38	853.3	855.8	858.5	856.2	856.1	417.8	422.0	423.0	417.3	417.4
Search and navigation equipment .....	381	161.1	161.0	161.5	161.1	-	45.9	45.7	43.2	42.6	-
Measuring and controlling devices .....	382	297.5	298.7	302.1	300.8	-	149.7	150.8	154.6	152.6	-
Environmental controls .....	3822	41.4	42.4	41.3	40.6	-	26.4	27.2	27.8	27.1	-
Process control instruments .....	3823	66.7	66.4	66.9	66.3	-	33.5	33.5	34.1	33.8	-
Instruments to measure electricity .....	3825	76.1	76.3	78.1	78.2	-	33.5	33.4	33.5	32.9	-
Medical instruments and supplies .....	384	266.5	268.5	268.5	268.2	-	154.4	157.3	157.6	155.4	-
Surgical and medical instruments .....	3841	103.3	105.2	104.0	104.1	-	65.4	67.8	66.9	65.4	-
Surgical appliances and supplies .....	3842	92.6	92.8	92.6	91.9	-	56.7	56.8	56.9	56.2	-
Ophthalmic goods .....	385	35.8	35.4	34.8	34.6	-	23.3	22.9	21.2	20.8	-
Photographic equipment and supplies .....	386	85.3	84.4	84.1	83.9	-	38.8	38.9	40.1	39.6	-
Watches, clocks, watchcases, and parts .....	387	7.1	7.8	7.5	7.6	-	5.7	6.4	6.3	6.3	-
Miscellaneous manufacturing industries .....	39	379.8	387.5	388.1	381.7	388.0	266.6	272.6	273.0	266.5	272.3
Jewelry, silverware, and plated ware .....	391	46.9	49.0	47.8	46.6	-	31.8	33.6	32.8	32.1	-
Jewelry, precious metal .....	3911	35.7	36.7	35.6	35.0	-	23.9	24.8	24.0	23.6	-
Musical instruments .....	393	15.1	15.8	15.8	15.4	-	11.8	12.4	12.5	11.7	-
Toys and sporting goods .....	394	111.3	111.8	109.2	106.7	-	77.6	77.5	75.3	73.4	-
Dolls, games, toys, and children's vehicles .....	3942.4	40.3	41.5	38.9	37.8	-	26.7	27.9	25.5	24.6	-
Sporting and athletic goods, nec .....	3949	71.0	70.3	70.3	68.9	-	50.9	49.6	49.8	48.8	-
Pens, pencils, office, and art supplies .....	395	31.7	31.2	31.5	31.5	-	21.9	20.8	21.2	21.3	-
Costume jewelry and notions .....	396	22.7	25.0	24.1	23.5	-	15.9	17.8	17.1	16.2	-
Costume jewelry .....	3961	12.4	14.6	13.7	13.1	-	8.6	10.4	9.8	8.9	-
Miscellaneous manufactures .....	399	152.1	154.7	159.7	158.0	-	107.6	110.5	114.1	111.8	-
Signs and advertising specialties .....	3993	65.0	65.6	68.1	68.3	-	42.9	43.5	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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Nondurable goods</b> .....		7,682	7,774	7,655	7,606	7,698	5,356	5,456	5,341	5,296	5,387
Food and kindred products .....	20	1,717.3	1,765.8	1,689.4	1,715.1	1,761.2	1,275.0	1,323.1	1,249.3	1,273.7	1,320.1
Meat products .....	201	478.8	479.8	483.5	483.6	-	407.2	408.5	410.0	410.3	-
Meat packing plants .....	2011	146.0	146.7	146.7	146.7	-	121.7	122.3	121.9	122.0	-
Sausages and other prepared meats .....	2013	95.8	96.6	96.7	96.2	-	74.4	75.1	74.6	74.3	-
Poultry slaughtering and processing .....	2015	237.0	236.5	240.1	240.7	-	211.1	211.1	213.5	214.0	-
Dairy products .....	202	146.0	144.9	144.6	144.4	-	96.1	95.7	96.1	95.6	-
Cheese, natural and processed .....	2022	41.2	41.3	41.1	41.3	-	33.5	33.7	33.7	33.6	-
Fluid milk .....	2026	61.9	61.6	61.7	61.7	-	34.4	34.5	35.0	34.9	-
Preserved fruits and vegetables .....	203	257.9	300.8	227.2	248.6	-	217.0	259.3	189.9	211.2	-
Canned specialties .....	2032	20.0	21.7	18.3	18.0	-	15.9	17.7	14.5	14.0	-
Canned fruits and vegetables .....	2033	93.3	123.0	68.4	87.6	-	79.7	108.3	56.0	75.0	-
Frozen fruits and vegetables .....	2037	49.9	59.5	48.3	51.1	-	43.1	53.0	42.1	44.6	-
Grain mill products .....	204	126.0	126.8	125.7	124.9	-	89.5	90.3	89.5	88.8	-
Flour and other grain mill products .....	2041	19.1	19.2	19.6	19.4	-	11.9	12.0	12.1	12.0	-
Prepared feeds, nec .....	2048	40.8	40.7	40.3	39.2	-	25.5	25.5	26.0	25.2	-
Bakery products .....	205	209.7	209.0	209.2	208.4	-	141.4	140.8	140.6	139.9	-
Bread, cake, and related products .....	2051	148.6	147.9	149.3	148.6	-	91.2	90.6	90.7	90.3	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	61.1	61.1	59.9	59.8	-	50.2	50.2	49.9	49.6	-
Sugar and confectionery products .....	206	91.3	96.5	89.8	88.3	-	71.0	76.0	69.8	68.4	-
Raw cane sugar .....	2061	2.6	4.0	4.0	2.5	-	1.9	3.1	3.0	1.7	-
Cane sugar refining .....	2062	4.3	4.3	4.3	4.4	-	3.3	3.3	3.2	3.4	-
Beet sugar .....	2063	6.6	6.8	6.8	6.8	-	5.6	5.7	5.6	5.8	-
Candy and other confectionery products .....	2064	51.4	54.7	49.9	49.4	-	41.0	44.3	39.7	38.9	-
Fats and oils .....	207	31.7	31.8	32.5	32.6	-	21.9	21.9	22.2	22.2	-
Beverages .....	208	182.0	181.8	183.5	184.2	-	86.7	86.4	89.1	89.4	-
Malt beverages .....	2082	36.9	36.8	35.1	35.2	-	23.9	23.5	22.4	22.4	-
Bottled and canned soft drinks .....	2086	96.3	95.6	96.6	97.3	-	40.1	39.7	40.4	40.6	-
Misc. food and kindred products .....	209	193.9	194.4	193.4	200.1	-	144.2	144.2	142.1	147.9	-
Tobacco products .....	21	37.3	40.2	37.7	37.6	39.2	27.8	31.0	27.9	28.3	30.4
Cigarettes .....	211	28.3	27.9	27.9	27.9	-	20.9	20.5	20.7	21.3	-
Textile mill products .....	22	618.7	624.8	611.7	602.7	607.4	521.2	528.5	518.8	509.8	515.6
Broadwoven fabric mills, cotton .....	221	73.9	74.3	71.3	70.5	-	65.2	65.6	63.5	62.8	-
Broadwoven fabric mills, synthetics .....	222	65.5	66.7	64.5	63.4	-	55.1	56.2	54.1	53.1	-
Broadwoven fabric mills, wool .....	223	14.3	14.1	14.7	14.5	-	12.3	12.1	12.4	12.2	-
Narrow fabric mills .....	224	20.3	21.1	21.2	20.1	-	16.7	17.4	17.4	16.6	-
Knitting mills .....	225	179.7	179.5	174.4	172.0	-	153.7	154.5	149.7	146.8	-
Women's hosiery, except socks .....	2251	20.5	20.7	20.3	20.1	-	17.8	18.0	17.9	17.7	-
Hosiery, nec .....	2252	40.2	39.8	39.2	38.7	-	35.2	34.8	34.2	33.8	-
Knit outerwear mills .....	2253	54.7	54.7	52.9	52.2	-	47.2	47.3	45.1	44.7	-
Knit underwear mills .....	2254	18.3	18.7	17.1	17.0	-	15.8	16.7	15.2	14.2	-
Wet knit fabric mills .....	2257	25.0	24.4	23.5	22.9	-	20.4	20.0	19.7	19.2	-
Textile finishing, except wool .....	226	66.9	68.1	65.2	63.4	-	54.2	55.3	53.3	51.5	-
Finishing plants, cotton .....	2261	31.9	32.0	30.3	30.0	-	25.9	26.0	24.7	24.3	-
Finishing plants, synthetics .....	2262	21.1	21.9	21.2	20.0	-	16.7	17.4	17.0	15.8	-
Carpets and rugs .....	227	60.4	61.1	60.8	61.3	-	48.3	49.3	50.1	50.6	-
Yarn and thread mills .....	228	86.6	87.8	87.9	86.8	-	76.6	77.8	78.1	76.7	-
Yarn spinning mills .....	2281	63.5	64.5	64.0	63.0	-	56.6	57.7	57.2	56.0	-
Throwing and winding mills .....	2282	16.3	16.4	16.7	16.6	-	14.0	14.1	14.4	14.2	-
Miscellaneous textile goods .....	229	51.1	52.1	51.7	50.7	-	39.1	40.3	40.2	39.5	-
Apparel and other textile products .....	23	845.9	859.0	823.3	793.5	808.2	689.3	703.1	673.8	645.6	656.5
Men's and boys' suits and coats .....	231	30.5	32.0	30.3	28.5	-	24.6	26.0	24.5	23.0	-
Men's and boys' furnishings .....	232	217.1	220.9	215.5	206.2	-	182.8	186.9	182.7	175.3	-
Men's and boys' shirts .....	2321	45.6	45.6	46.3	43.9	-	38.3	38.4	39.7	38.2	-
Men's and boys' trousers and slacks .....	2325	73.9	75.1	72.1	70.8	-	63.4	64.7	62.1	61.1	-
Men's and boys' work clothing .....	2326	30.5	33.0	32.3	28.9	-	26.0	28.4	27.7	24.5	-
Women's and misses' outerwear .....	233	249.4	252.2	238.7	229.1	-	201.7	205.1	193.9	183.7	-
Women's and misses' blouses and shirts .....	2331	26.5	26.2	25.2	25.2	-	20.7	20.5	19.5	19.5	-
Women's, juniors', and misses' dresses .....	2335	39.9	39.8	38.7	36.8	-	31.7	31.7	30.4	28.6	-
Women's and misses' suits and coats .....	2337	25.1	26.2	25.3	25.3	-	19.3	20.4	19.8	19.7	-
Women's and misses' outerwear, nec .....	2339	157.9	160.0	149.5	141.8	-	130.0	132.5	124.2	115.9	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	41.1	41.1	37.2	36.3	-	32.8	32.6	29.4	28.5	-
Women's and children's underwear .....	2341	29.6	30.1	27.0	26.3	-	24.8	25.1	22.0	21.3	-
Brassieres, girdles, and allied garments .....	2342	11.5	11.0	10.2	10.0	-	8.0	7.5	7.4	7.2	-
Girls' and children's outerwear .....	236	36.2	35.8	30.6	29.8	-	30.0	29.5	25.3	24.3	-
Girls' and children's dresses and blouses .....	2361	13.7	13.4	11.7	11.5	-	11.7	11.3	10.0	9.6	-
Misc. apparel and accessories .....	238	33.8	34.6	33.7	31.5	-	27.2	28.3	27.1	25.0	-
Misc. fabricated textile products .....	239	219.3	222.8	218.5	213.9	-	175.8	179.3	176.1	171.3	-
Curtains and draperies .....	2391	20.2	20.6	19.3	19.2	-	16.0	16.5	15.4	15.1	-
House furnishings, nec .....	2392	54.0	55.4	54.1	54.0	-	45.6	47.0	46.0	45.8	-
Automotive and apparel trimmings .....	2396	61.7	62.3	61.0	59.2	-	49.0	49.5	49.2	47.1	-
Paper and allied products .....	26	681.0	682.8	680.6	677.5	679.7	516.6	520.1	519.1	517.0	519.1
Paper mills .....	262	163.0	162.3	161.5	161.9	-	126.3	125.8	125.8	126.4	-
Paperboard mills .....	263	50.4	50.1	49.1	49.3	-	38.4	38.2	37.6	37.9	-
Paperboard containers and boxes .....	265	215.8	218.1	218.6	216.2	-	167.2	169.2	169.7	167.4	-
Corrugated and solid fiber boxes .....	2653	128.5	129.4	130.8	129.9	-	96.0	96.8	98.2	97.2	-
Sanitary food containers .....	2656	18.0	17.9	17.4	17.1	-	16.0	15.8	15.6	15.2	-
Folding paperboard boxes .....	2657	47.4	48.1	48.2	47.7	-	38.3	39.0	39.0	38.5	-
Misc. converted paper products .....	267	239.3	239.8	239.8	238.5	-	174.9	177.1	176.7	176.0	-
Paper, coated and laminated, nec .....	2672	46.2	46.1	46.8	47.0	-	23.3	24.3	24.4	24.7	-
Bags: plastics, laminated, and coated .....	2673	38.4	38.4	38.8	38.4	-	29.5	29.6	30.3	30.1	-
Envelopes .....	2677	23.4	23.5	24.3	24.1	-	18.2	18.3	18.9	18.8	-
Printing and publishing .....	27	1,535.5	1,535.7	1,549.7	1,547.7	1,547.0	836.6	838.2	846.0	843.4	841.6
Newspapers .....	271	442.7	441.5	446.0	448.0	-	149.4	149.5	149.6	149.4	-
Periodicals .....	272	132.6	132.4	133.1	134.0	-	43.5	43.8	45.1	45.5	-
Books .....	273	124.3	123.2	124.9	124.1	-	65.7	64.6	66.7	66.4	-
Book publishing .....	2731	85.8	85.0	86.5	85.8	-	34.9	34.1	36.3	36.0	-
Book printing .....	2732	38.5	38.2	38.4	38.3	-	30.8	30.5	30.4	30.4	-
Miscellaneous publishing .....	274	86.7	86.6	89.2	90.3	-	41.7	41.4	41.7	42.2	-
Commercial printing .....	275	560.8	562.7	568.2	565.3	-	400.7	402.6	406.8	404.0	-
Commercial printing, lithographic .....	2752	364.3	366.4	368.7	367.2	-	259.5	261.4	263.2	261.3	-
Commercial printing, nec .....	2759	176.4	175.9	180.3	178.5	-	125.6	125.3	128.5	127.3	-
Manifold business forms .....	276	43.7	43.8	44.3	44.1	-	30.2	30.3	31.1	30.8	-
Blankbooks and bookbinding .....	278	66.7	67.1	65.5	65.5	-	51.7	51.7	50.5	50.4	-
Printing trade services .....	279	51.4	51.5	49.4	49.0	-	35.9	35.9	33.8	33.6	-
Chemicals and allied products .....	28	1,035.8	1,037.7	1,032.9	1,027.8	1,030.5	573.6	576.2	589.2	587.1	570.9
Industrial inorganic chemicals .....	281	119.5	119.0	117.3	116.6	-	54.8	54.8	55.8	56.3	-
Industrial inorganic chemicals, nec .....	2819	73.1	72.9	72.0	71.1	-	36.1	36.0	36.0	35.4	-
Plastics materials and synthetics .....	282	158.4	159.4	157.2	155.4	-	104.4	105.3	105.5	104.3	-
Plastics materials and resins .....	2821	77.0	76.9	77.2	77.6	-	47.7	47.7	48.4	48.6	-
Organic fibers, noncellulosic .....	2824	47.8	49.0	47.5	46.4	-	36.5	37.6	37.1	36.3	-
Drugs .....	283	259.2	260.0	261.3	261.4	-	122.0	121.6	116.3	116.3	-
Pharmaceutical preparations .....	2834	206.8	207.2	206.6	206.6	-	100.6	99.8	94.1	93.9	-
Soap, cleaners, and toilet goods .....	284	154.3	156.3	154.0	153.6	-	94.7	96.7	94.4	94.2	-
Soap and other detergents .....	2841	40.5	41.5	39.9	40.0	-	22.2	23.1	21.6	21.5	-
Polishing, sanitation, and finishing preparations .....	2842,3	41.5	41.5	41.3	41.0	-	23.5	23.5	22.9	22.8	-
Toilet preparations .....	2844	72.3	73.3	72.8	72.6	-	49.0	50.1	49.9	49.9	-
Paints and allied products .....	285	52.9	53.0	54.1	54.5	-	28.0	28.4	29.0	29.1	-
Industrial organic chemicals .....	286	145.5	144.8	143.1	142.5	-	82.9	82.8	80.6	80.2	-
Cyclic crudes and intermediates .....	2865	25.6	25.6	26.3	25.8	-	15.3	15.4	15.8	15.5	-
Industrial organic chemicals, nec .....	2869	117.0	116.4	114.1	114.0	-	65.5	65.3	62.8	62.7	-
Agricultural chemicals .....	287	52.5	52.5	51.9	50.3	-	30.5	30.8	30.9	30.4	-
Miscellaneous chemical products .....	289	93.5	92.7	94.0	93.5	-	56.3	55.8	56.7	56.3	-
Petroleum and coal products .....	29	145.0	145.2	140.9	141.3	141.5	94.7	95.3	93.4	93.8	94.4
Petroleum refining .....	291	101.0	100.7	97.2	97.2	-	64.2	64.5	63.6	63.4	-
Asphalt paving and roofing materials .....	295	29.5	30.0	29.2	29.6	-	22.7	23.0	22.0	22.6	-
Rubber and misc. plastics products .....	30	973.5	987.3	996.7	976.3	992.3	751.4	766.4	773.2	753.0	768.9
Tires and inner tubes .....	301	79.5	79.9	78.2	76.9	-	57.7	58.1	57.8	56.5	-
Rubber and plastics footwear .....	302	5.8	6.8	7.3	6.6	-	4.5	5.6	5.9	5.1	-
Hose, belting, gaskets, and packing .....	305	67.7	67.7	70.2	70.0	-	51.1	51.6	54.0	53.9	-
Rubber and plastics hose and belting .....	3052	27.4	27.4	28.3	28.0	-	21.1	21.1	22.1	21.8	-
Fabricated rubber products, nec .....	306	109.6	113.2	115.5	112.0	-	83.3	87.0	88.5	84.9	-
Miscellaneous plastics products, nec .....	308	710.9	719.7	725.5	710.8	-	554.8	564.1	567.0	552.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	92.0	95.6	92.3	86.7	90.6	69.6	73.8	70.6	64.7	69.0
Leather tanning and finishing .....	311	12.3	12.7	13.1	11.3	-	10.0	10.5	10.8	9.1	-
Footwear, except rubber .....	314	42.2	44.4	41.4	39.2	-	33.4	35.6	33.4	31.1	-
Men's footwear, except athletic .....	3143	23.2	23.2	21.5	21.2	-	17.8	17.9	16.9	16.6	-
Women's footwear, except athletic .....	3144	11.8	12.7	11.7	11.0	-	9.4	10.2	9.3	8.5	-
Luggage .....	316	10.2	10.7	11.3	10.7	-	7.3	7.9	8.3	7.7	-
Handbags and personal leather goods .....	317	10.5	10.6	9.4	9.0	-	6.3	6.7	5.5	5.1	-
<b>Transportation and public utilities .....</b>		<b>6,276</b>	<b>6,283</b>	<b>6,465</b>	<b>6,433</b>	<b>6,278</b>	<b>5,278</b>	<b>5,283</b>	<b>5,451</b>	<b>5,409</b>	<b>5,228</b>
Transportation .....		4,039	4,043	4,213	4,176	4,026	-	-	-	-	-
Railroad transportation .....	40	231.5	232.2	229.9	230.6	228.3	-	-	-	-	-
Class I railroads plus Amtrak <sup>2</sup> .....	4011	205.8	206.4	204.5	205.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	384.9	384.0	458.3	398.0	394.8	347.7	346.5	419.5	359.3	-
Local and suburban transportation .....	411	219.1	219.6	229.9	227.5	-	199.1	199.5	209.1	206.4	-
Taxicabs .....	412	30.0	30.3	30.7	30.4	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	26.2	26.2	27.1	27.2	-	23.8	23.9	24.6	24.7	-
School buses .....	415	76.4	75.6	135.0	79.8	-	-	-	-	-	-
Trucking and warehousing .....	42	1,672.2	1,677.6	1,698.9	1,708.3	1,728.1	1,458.9	1,464.8	1,485.6	1,498.2	-
Trucking and courier services, except air .....	421	1,516.5	1,520.9	1,534.8	1,543.1	-	1,328.5	1,333.6	1,349.3	1,360.8	-
Public warehousing and storage .....	422	151.0	151.9	159.6	160.9	-	126.2	126.9	132.3	133.5	-
Water transportation .....	44	184.0	181.9	184.0	188.5	189.2	-	-	-	-	-
Water transportation of freight, nec .....	444	14.1	14.2	14.5	14.5	-	-	-	-	-	-
Water transportation services .....	449	121.9	120.0	123.2	127.5	-	108.1	106.3	108.9	113.0	-
Transportation by air .....	45	1,133.1	1,132.5	1,190.4	1,197.4	1,030.5	-	-	-	-	-
Air transportation, scheduled .....	451	975.0	973.7	1,024.8	1,030.6	-	-	-	-	-	-
Air transportation, scheduled .....	4512	505.3	507.2	529.8	531.4	-	-	-	-	-	-
Airports, flying fields, and services .....	458	114.0	114.5	118.5	119.7	-	-	-	-	-	-
Pipelines, except natural gas .....	46	14.7	14.7	14.5	14.6	14.6	12.0	11.9	11.8	12.0	-
Transportation services .....	47	418.6	420.2	437.1	438.6	440.6	337.6	339.9	356.9	358.1	-
Passenger transportation arrangement .....	472	215.1	215.3	220.4	221.7	-	178.1	179.1	183.9	185.2	-
Travel agencies .....	4724	169.7	170.3	173.2	174.4	-	140.4	141.8	144.9	146.4	-
Freight transportation arrangement .....	473	159.0	159.8	167.4	168.1	-	122.9	123.5	131.7	132.3	-
Communications and public utilities .....		2,237	2,240	2,252	2,257	2,252	-	-	-	-	-
Communications .....	48	1,346.9	1,352.5	1,375.6	1,380.0	1,379.5	1,057.4	1,061.8	1,071.9	1,070.1	-
Telephone communications .....	481	904.8	908.6	926.1	929.4	-	694.7	696.8	704.2	702.6	-
Telephone communications, except radio .....	4813	781.5	783.3	785.2	787.6	-	598.2	599.2	589.4	587.3	-
Radio and television broadcasting .....	483	242.5	243.9	248.7	248.7	-	202.5	203.8	207.3	207.0	-
Radio broadcasting stations .....	4832	114.8	114.7	118.0	118.1	-	-	-	-	-	-
Television broadcasting stations .....	4833	127.7	129.2	130.7	130.6	-	-	-	-	-	-
Cable and other pay television services .....	484	173.4	174.7	178.3	179.0	-	146.8	148.0	149.6	149.8	-
Electric, gas, and sanitary services .....	49	890.1	887.8	876.6	877.3	872.4	704.6	702.7	698.1	697.9	-
Electric services .....	491	388.3	387.1	380.9	382.1	-	306.9	306.0	304.7	305.4	-
Gas production and distribution .....	492	148.3	147.9	144.3	144.4	-	115.6	115.3	112.0	111.9	-
Combination utility services .....	493	163.6	163.1	161.0	160.4	-	126.3	126.0	124.9	124.5	-
Sanitary services .....	495	156.8	156.7	156.6	156.3	-	129.7	129.5	129.8	129.1	-
<b>Wholesale trade .....</b>		<b>6,522</b>	<b>6,531</b>	<b>6,680</b>	<b>6,706</b>	<b>6,707</b>	<b>5,276</b>	<b>5,283</b>	<b>5,389</b>	<b>5,407</b>	<b>5,400</b>
Durable goods .....	50	3,829	3,831	3,943	3,962	3,967	3,064	3,064	3,139	3,150	-
Motor vehicles, parts, and supplies .....	501	506.7	506.9	514.7	513.5	-	414.7	415.5	421.3	419.5	-
Automobiles and other motor vehicles .....	5012	137.0	137.7	142.8	143.1	-	-	-	-	-	-
Motor vehicle supplies and new parts .....	5013	293.7	293.0	294.2	293.0	-	-	-	-	-	-
Furniture and home furnishings .....	502	152.3	152.7	159.6	160.9	-	121.7	121.7	127.1	128.0	-
Furniture .....	5021	72.0	72.1	75.8	76.7	-	-	-	-	-	-
Home furnishings .....	5023	80.3	80.6	83.8	84.2	-	-	-	-	-	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Lumber and other construction materials .....	503	248.8	249.6	255.1	256.6	-	206.2	207.2	210.8	212.2	-
Lumber, plywood, and millwork .....	5031	125.9	126.7	129.5	129.5	-	-	-	-	-	-
Construction materials, nec .....	5039	38.2	38.5	38.6	39.0	-	-	-	-	-	-
Professional and commercial equipment .....	504	826.5	827.4	853.5	859.6	-	656.2	657.7	669.2	671.7	-
Office equipment .....	5044	192.7	193.1	202.6	203.4	-	-	-	-	-	-
Computers, peripherals and software .....	5045	317.3	317.8	329.9	333.9	-	-	-	-	-	-
Medical and hospital equipment .....	5047	176.0	176.3	180.4	181.5	-	144.5	145.0	145.9	147.0	-
Metals and minerals, except petroleum .....	505	144.0	144.5	145.5	145.1	-	116.5	116.8	117.8	117.2	-
Electrical goods .....	506	518.3	518.5	539.4	544.4	-	396.2	395.4	403.1	405.8	-
Electrical apparatus and equipment .....	5063	217.1	217.7	229.4	231.4	-	-	-	-	-	-
Electrical appliances, television and radio sets .....	5064	49.8	49.3	48.6	49.3	-	-	-	-	-	-
Electronic parts and equipment .....	5065	251.4	251.5	261.4	263.7	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	297.6	299.0	305.2	305.7	-	240.7	241.7	249.2	249.0	-
Hardware .....	5072	105.8	106.1	107.4	107.2	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	117.1	117.8	119.8	120.6	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	804.6	803.0	833.9	838.0	-	643.7	642.0	667.3	671.3	-
Construction and mining machinery .....	5082	84.4	84.2	88.4	89.3	-	-	-	-	-	-
Farm and garden machinery .....	5083	121.1	120.6	126.8	127.0	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	325.1	324.3	337.3	339.3	-	-	-	-	-	-
Industrial supplies .....	5085	150.7	150.8	153.6	153.9	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	330.3	329.6	336.3	338.3	-	267.9	266.3	273.0	275.1	-
Scrap and waste materials .....	5093	130.9	131.0	133.3	132.6	-	-	-	-	-	-
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,693</b>	<b>2,700</b>	<b>2,737</b>	<b>2,744</b>	<b>2,740</b>	<b>2,212</b>	<b>2,219</b>	<b>2,250</b>	<b>2,257</b>	<b>-</b>
Paper and paper products .....	511	259.8	262.0	264.9	265.8	-	216.8	219.5	222.7	224.3	-
Stationery and office supplies .....	5112	148.2	149.3	150.6	152.1	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	205.1	205.6	211.2	211.9	-	171.0	171.5	176.9	176.5	-
Apparel, piece goods, and notions .....	513	218.2	222.3	226.1	226.6	-	174.6	178.9	182.8	184.2	-
Groceries and related products .....	514	904.3	901.2	918.8	921.6	-	762.9	759.1	772.8	775.2	-
Groceries, general line .....	5141	284.1	282.8	286.7	286.6	-	-	-	-	-	-
Meats and meat products .....	5147	56.4	56.2	57.3	56.8	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	107.0	102.9	109.9	110.1	-	-	-	-	-	-
Farm-product raw materials .....	515	105.4	107.7	104.0	105.0	-	85.5	87.3	83.4	84.4	-
Chemicals and allied products .....	516	146.8	146.6	147.2	146.7	-	108.4	108.2	107.9	107.7	-
Petroleum and petroleum products .....	517	157.0	157.3	160.5	162.8	-	129.9	130.0	132.8	134.9	-
Petroleum bulk stations and terminals .....	5171	63.8	63.9	66.3	67.3	-	-	-	-	-	-
Petroleum products, nec .....	5172	93.2	93.4	94.2	95.5	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	156.1	156.0	158.9	159.7	-	126.8	126.8	129.2	130.0	-
Beer and ale .....	5181	102.3	102.1	104.0	104.6	-	-	-	-	-	-
Wine and distilled beverages .....	5182	53.8	53.9	54.9	55.1	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	540.1	541.0	545.8	544.0	-	436.5	438.7	441.9	439.4	-
Farm supplies .....	5191	168.2	166.4	175.8	174.7	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>21,779</b>	<b>21,870</b>	<b>22,286</b>	<b>22,282</b>	<b>22,358</b>	<b>19,165</b>	<b>19,246</b>	<b>19,630</b>	<b>19,614</b>	<b>19,680</b>
Building materials and garden supplies .....	52	926.6	917.4	973.1	964.4	952.0	777.1	767.8	815.1	807.7	-
Lumber and other building materials .....	521	558.7	555.9	593.1	591.8	-	476.7	473.8	503.8	503.3	-
Paint, glass, and wallpaper stores .....	523	66.8	67.2	67.0	67.6	-	51.8	52.2	51.8	52.6	-
Hardware stores .....	525	165.6	164.2	167.8	167.2	-	136.5	135.0	138.5	138.3	-
Retail nurseries and garden stores .....	526	96.5	90.7	104.9	96.8	-	80.6	75.1	89.3	81.3	-
General merchandise stores .....	53	2,678.3	2,698.7	2,739.7	2,752.9	2,781.0	2,491.5	2,510.6	2,545.1	2,554.7	-
Department stores .....	531	2,349.5	2,369.8	2,400.2	2,416.4	2,439.8	2,208.5	2,227.6	2,253.9	2,266.3	-
Variety stores .....	533	135.8	134.3	139.2	137.1	-	116.6	115.2	118.3	116.4	-
Miscellaneous general merchandise stores .....	539	193.0	194.6	200.3	199.4	-	166.4	167.8	172.9	172.0	-
Food stores .....	54	3,460.7	3,461.4	3,510.5	3,524.5	3,517.6	3,139.6	3,137.8	3,179.7	3,191.7	-
Grocery stores .....	541	3,050.6	3,047.5	3,067.6	3,080.8	-	2,788.7	2,783.3	2,800.6	2,811.9	-
Meat and fish markets .....	542	48.5	47.4	48.9	49.0	-	-	-	-	-	-
Dairy products stores .....	545	15.7	16.0	16.6	17.5	-	-	-	-	-	-
Retail bakeries .....	546	194.1	196.1	208.8	206.9	-	169.9	172.1	182.7	180.5	-
Automotive dealers and service stations .....	55	2,308.4	2,310.8	2,338.7	2,347.1	2,352.3	1,933.8	1,935.1	1,960.3	1,963.0	-
New and used car dealers .....	551	1,040.8	1,043.3	1,058.8	1,060.1	1,062.4	871.9	874.0	888.3	889.0	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Retail trade—Continued</b>											
<b>Automotive dealers and service stations—Continued</b>											
Auto and home supply stores .....	553	388.9	390.7	399.4	403.9	-	312.2	313.3	320.4	322.0	-
Gasoline service stations .....	554	682.9	684.2	681.4	682.1	-	592.1	593.3	592.0	591.3	-
Automotive dealers, nec .....	559	9.3	9.3	10.1	10.2	-	7.6	7.7	8.4	8.5	-
<b>Apparel and accessory stores .....</b>	<b>56</b>	<b>1,092.8</b>	<b>1,099.2</b>	<b>1,088.2</b>	<b>1,087.1</b>	<b>1,096.4</b>	<b>901.1</b>	<b>908.1</b>	<b>904.5</b>	<b>905.7</b>	<b>-</b>
Men's and boys' clothing stores .....	561	81.1	80.2	78.5	78.8	-	64.8	64.2	62.7	60.5	-
Women's clothing stores .....	562	295.2	294.8	287.7	289.0	-	242.8	243.1	238.9	240.7	-
Family clothing stores .....	565	335.0	336.6	344.4	344.2	-	290.8	292.4	303.3	304.6	-
Shoe stores .....	566	198.9	204.5	197.9	196.4	-	154.5	160.0	156.4	154.9	-
<b>Furniture and home furnishings stores .....</b>	<b>57</b>	<b>879.6</b>	<b>985.5</b>	<b>1,024.4</b>	<b>1,031.6</b>	<b>1,036.4</b>	<b>796.0</b>	<b>801.5</b>	<b>837.2</b>	<b>844.0</b>	<b>-</b>
Furniture and home furnishings stores .....	571	512.2	514.6	532.8	535.4	-	414.2	416.3	431.8	434.9	-
Furniture stores .....	5712	302.7	304.2	316.7	318.6	-	-	-	-	-	-
Household appliance stores .....	572	72.7	72.2	70.7	70.7	-	58.6	58.3	57.1	57.3	-
Radio, television, and computer stores .....	573	394.7	398.7	420.9	425.5	-	323.2	326.9	348.3	351.8	-
Radio, television, and electronic stores .....	5731	177.6	179.5	189.3	192.3	-	147.3	149.3	157.7	159.9	-
Record and prerecorded tape stores .....	5735	79.7	81.1	81.3	81.9	-	61.6	63.0	66.1	66.6	-
<b>Eating and drinking places .....</b>	<b>58</b>	<b>7,669.0</b>	<b>7,713.0</b>	<b>7,832.1</b>	<b>7,798.3</b>	<b>7,826.8</b>	<b>6,917.9</b>	<b>6,955.7</b>	<b>7,073.3</b>	<b>7,037.2</b>	<b>-</b>
<b>Miscellaneous retail establishments .....</b>	<b>59</b>	<b>2,663.4</b>	<b>2,683.7</b>	<b>2,779.2</b>	<b>2,775.8</b>	<b>2,795.9</b>	<b>2,208.3</b>	<b>2,229.7</b>	<b>2,314.3</b>	<b>2,309.5</b>	<b>-</b>
Drug stores and proprietary stores .....	591	605.9	608.4	624.2	623.8	-	500.5	503.2	517.7	516.4	-
Liquor stores .....	592	111.1	111.1	112.1	113.0	-	-	-	-	-	-
Used merchandise stores .....	593	105.9	105.9	114.7	114.4	-	88.1	88.1	95.4	95.1	-
Miscellaneous shopping goods stores .....	594	934.1	947.7	977.4	982.9	-	775.8	791.1	816.6	820.8	-
Sporting goods and bicycle shops .....	5941	187.2	189.7	196.9	198.7	-	-	-	-	-	-
Book stores .....	5942	109.4	116.6	113.8	112.4	-	-	-	-	-	-
Stationary stores .....	5943	84.4	85.3	87.3	86.7	-	-	-	-	-	-
Jewelry stores .....	5944	133.5	135.6	143.9	144.3	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	224.0	222.1	220.7	223.9	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	52.0	50.6	50.9	51.4	-	-	-	-	-	-
Nonstore retailers .....	596	315.8	323.2	331.6	330.0	-	266.0	272.7	280.7	279.6	-
Catalog and mail-order houses .....	5961	193.2	200.2	209.4	209.0	-	-	-	-	-	-
Merchandising machine operators .....	5962	68.7	69.0	66.2	65.5	-	-	-	-	-	-
Fuel dealers .....	598	96.3	96.2	97.4	97.5	-	79.6	79.5	80.2	80.1	-
Retail stores, nec .....	599	494.3	491.2	521.8	514.2	-	407.5	404.2	432.7	425.4	-
Florists, tobacco stores, and newsstands .....	5992,3,4	143.3	141.8	154.2	148.3	-	-	-	-	-	-
Optical goods stores .....	5995	66.8	67.7	71.1	71.2	-	54.7	55.4	59.4	59.7	-
Miscellaneous retail stores, nec .....	5999	284.2	281.7	296.5	294.7	-	230.5	227.9	241.9	239.7	-
<b>Finance, insurance, and real estate<sup>2</sup> .....</b>	<b>6,998</b>	<b>6,999</b>	<b>7,099</b>	<b>7,145</b>	<b>7,150</b>	<b>5,129</b>	<b>5,126</b>	<b>5,200</b>	<b>5,239</b>	<b>5,235</b>	<b>-</b>
<b>Finance .....</b>	<b>3,331</b>	<b>3,336</b>	<b>3,413</b>	<b>3,427</b>	<b>3,436</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Depository institutions .....</b>	<b>60</b>	<b>2,039.3</b>	<b>2,039.0</b>	<b>2,056.8</b>	<b>2,062.0</b>	<b>2,062.8</b>	<b>1,472.8</b>	<b>1,472.8</b>	<b>1,482.4</b>	<b>1,487.3</b>	<b>-</b>
Commercial banks .....	602	1,479.3	1,478.8	1,497.4	1,501.6	1,502.4	1,054.3	1,054.1	1,065.0	1,069.4	-
State commercial banks .....	6022	592.6	592.3	608.6	609.3	-	425.7	425.5	436.3	437.0	-
National and commercial banks, nec .....	6021,9	886.7	886.5	888.8	892.3	-	628.6	628.6	628.7	632.4	-
Savings institutions .....	603	264.6	263.5	254.8	254.2	253.4	-	-	-	-	-
Federal savings institutions .....	6035	148.3	148.3	143.8	143.8	-	-	-	-	-	-
Savings institutions, except federal .....	6036	116.3	115.2	111.0	110.4	-	-	-	-	-	-
Credit unions .....	606	164.2	164.5	171.0	172.0	-	130.6	131.0	135.9	136.6	-
<b>Nondepository institutions .....</b>	<b>61</b>	<b>521.4</b>	<b>523.8</b>	<b>546.0</b>	<b>546.9</b>	<b>549.4</b>	<b>376.2</b>	<b>377.1</b>	<b>390.8</b>	<b>390.5</b>	<b>-</b>
Personal credit institutions .....	614	160.9	162.2	165.2	166.2	-	114.7	114.7	116.0	116.0	-
Business credit institutions .....	615	105.1	105.6	113.1	114.3	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	233.8	235.1	246.2	244.9	246.7	-	-	-	-	-
<b>Security and commodity brokers .....</b>	<b>62</b>	<b>558.5</b>	<b>561.7</b>	<b>588.7</b>	<b>597.3</b>	<b>601.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Security brokers and dealers .....	621	423.2	425.3	445.2	451.9	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges .....	622,3	25.0	24.8	24.9	25.5	-	-	-	-	-	-
Security and commodity services .....	628	110.3	111.6	118.6	119.9	-	73.2	73.7	78.9	80.1	-
<b>Holding and other investment offices .....</b>	<b>67</b>	<b>211.7</b>	<b>211.5</b>	<b>221.2</b>	<b>220.9</b>	<b>221.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Holding offices .....	671	107.4	107.4	110.4	110.7	-	-	-	-	-	-

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**EMPLOYMENT**  
**NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Insurance .....	63,64	2,231	2,225	2,232	2,241	2,238	-	-	-	-	-
Insurance carriers .....	63	1,520.6	1,516.0	1,510.1	1,517.3	1,516.6	1,087.2	1,083.4	1,096.1	1,103.9	-
Life insurance .....	631	522.4	519.0	506.7	511.6	-	344.9	342.9	330.6	331.4	-
Medical service and health insurance .....	632	325.8	325.9	331.2	332.5	-	267.6	267.0	270.8	272.1	-
Hospital and medical service plans .....	6324	264.2	264.6	270.2	271.3	-	219.9	219.5	223.9	225.0	-
Fire, marine, and casualty insurance .....	633	535.5	534.7	533.3	533.5	-	364.3	363.6	383.3	388.1	-
Title insurance .....	636	69.9	69.4	70.3	70.7	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	710.6	708.8	722.3	723.8	721.8	-	-	-	-	-
Real estate .....	65	1,436	1,438	1,454	1,477	1,476	-	-	-	-	-
Real estate operators and lessors .....	651	597.3	598.1	594.6	601.9	-	-	-	-	-	-
Real estate agents and managers .....	653	683.1	684.7	700.4	715.4	-	-	-	-	-	-
Subdividers and developers .....	655	123.0	122.4	125.4	126.2	-	-	-	-	-	-
<b>Services .....</b>		<b>34,807</b>	<b>34,842</b>	<b>35,861</b>	<b>36,038</b>	<b>36,018</b>	<b>30,480</b>	<b>30,507</b>	<b>31,354</b>	<b>31,529</b>	<b>31,490</b>
Agricultural services .....	07	698.2	689.3	745.8	749.7	740.5	595.8	586.4	636.1	638.9	-
Veterinary services .....	074	178.3	178.9	184.6	186.2	-	149.7	150.2	155.7	157.0	-
Landscape and horticultural services .....	078	469.0	460.1	509.9	510.3	-	404.3	394.7	438.1	437.9	-
Hotels and other lodging places .....	70	1,861.0	1,861.4	1,848.6	1,895.0	1,894.1	-	-	-	-	-
Hotels and motels .....	701	1,775.7	1,774.8	1,774.4	1,808.2	-	1,570.1	1,570.3	1,563.9	1,597.5	-
Personal services .....	72	1,144.0	1,145.2	1,157.2	1,143.6	1,145.6	-	-	-	-	-
Laundry, cleaning, and garment services .....	721	437.8	436.3	435.7	436.1	-	386.1	384.6	383.8	384.1	-
Photographic studios, portrait .....	722	72.4	73.7	73.5	72.5	-	-	-	-	-	-
Beauty shops .....	723	398.5	400.0	404.7	401.2	-	354.5	356.2	360.2	356.3	-
Funeral service and crematories .....	726	96.1	96.4	96.5	97.4	-	-	-	-	-	-
Miscellaneous personal services .....	729	122.3	121.8	130.6	120.8	-	101.0	100.9	107.6	99.1	-
Business services .....	73	7,314.1	7,424.2	7,655.9	7,698.2	7,768.2	6,508.1	6,611.1	6,788.1	6,831.1	-
Advertising .....	731	244.2	244.8	252.8	255.2	-	179.2	179.7	183.8	185.1	-
Advertising agencies .....	7311	162.7	163.0	169.9	171.1	-	-	-	-	-	-
Credit reporting and collection .....	732	128.8	128.2	131.7	132.1	-	-	-	-	-	-
Mailing, reproduction, and stenographic services .....	733	293.7	297.7	313.1	313.2	-	-	-	-	-	-
Photocopying and duplicating services .....	7334	72.6	73.1	77.8	77.9	-	60.7	61.2	66.0	66.4	-
Services to buildings .....	734	903.2	906.9	911.2	905.0	902.0	811.3	814.5	815.3	809.1	-
Disinfecting and pest control services .....	7342	88.8	88.0	89.1	89.7	-	71.1	70.3	71.7	72.2	-
Building maintenance services, nec .....	7349	814.4	818.9	822.1	815.3	-	740.2	744.2	743.6	736.9	-
Miscellaneous equipment rental and leasing .....	735	244.6	243.8	254.0	253.9	-	198.6	198.0	204.8	205.1	-
Medical equipment rental .....	7352	38.5	38.5	40.3	40.9	-	30.5	30.6	30.9	31.3	-
Heavy construction equipment rental .....	7353	44.2	44.3	45.3	44.0	-	37.9	37.8	38.2	37.3	-
Equipment rental and leasing, nec .....	7359	161.9	161.0	168.4	169.0	-	130.2	129.6	135.7	136.5	-
Personnel supply services .....	736	2,690.7	2,774.3	2,742.0	2,770.4	2,822.2	-	-	-	-	-
Employment agencies .....	7361	304.6	310.9	340.4	340.5	-	-	-	-	-	-
Help supply services .....	7363	2,386.1	2,463.4	2,401.6	2,429.9	2,478.4	2,320.4	2,397.5	2,330.6	2,362.2	-
Computer and data processing services .....	737	1,206.0	1,218.0	1,334.0	1,342.3	1,356.3	959.0	968.3	1,065.3	1,071.1	-
Computer programming services .....	7371	272.1	275.7	304.3	307.2	-	225.9	228.5	259.2	261.7	-
Prepackaged software .....	7372	198.5	201.2	220.8	223.1	-	-	-	-	-	-
Computer integrated systems design .....	7373	142.2	143.9	157.7	159.3	-	101.5	102.6	111.4	112.7	-
Data processing and preparation .....	7374	227.6	230.6	252.6	251.8	-	-	-	-	-	-
Information retrieval services .....	7375	69.1	69.5	75.4	75.6	-	51.6	52.1	54.8	54.7	-
Computer maintenance and repair .....	7378	53.1	52.5	54.9	55.1	-	39.5	38.5	38.9	38.9	-
Miscellaneous business services .....	738	1,602.9	1,610.5	1,717.1	1,726.1	-	1,401.4	1,406.0	1,495.7	1,505.4	-
Detective and armored car services .....	7381	545.6	548.3	563.0	565.9	-	507.9	509.8	521.1	523.8	-
Security systems services .....	7382	51.6	52.3	55.7	56.1	-	43.9	44.3	47.9	47.9	-
Photofinishing laboratories .....	7384	73.5	74.5	75.8	76.0	-	-	-	-	-	-
Auto repair, services, and parking .....	75	1,096.4	1,101.4	1,140.2	1,147.0	1,147.2	904.5	908.0	940.8	945.5	-
Automotive rentals, without drivers .....	751	198.9	199.7	208.3	210.8	-	164.1	165.2	171.8	173.6	-
Passenger car rental .....	7514	127.5	128.9	138.3	140.7	-	107.1	108.5	115.9	117.5	-
Automobile parking .....	752	68.0	68.6	69.6	69.0	-	60.4	60.6	61.6	60.9	-
Automotive repair shops .....	753	610.9	612.9	629.1	631.2	-	493.9	494.6	507.5	508.5	-
Automotive and tire repair shops .....	7532.4	211.1	211.0	219.1	219.1	-	174.3	173.8	180.2	180.0	-
General automotive repair shops .....	7536	256.7	258.4	263.4	264.6	-	206.8	207.6	212.1	213.1	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking—Continued											
Automotive services, except repair .....	754	218.6	220.2	233.2	236.0	-	186.1	187.6	199.9	202.5	-
Carwashes .....	7542	118.7	118.0	126.4	126.8	-	103.9	103.1	111.9	112.1	-
Miscellaneous repair services .....	76	379.2	379.3	388.7	391.6	391.4	310.4	310.7	318.0	319.8	-
Electrical repair shops .....	762	116.8	116.0	118.3	120.4	-	-	-	-	-	-
Motion pictures .....	78	535.3	535.6	541.7	546.8	556.1	451.1	450.3	454.7	460.4	-
Motion picture production and services .....	781	219.1	225.2	226.7	229.7	-	186.1	189.8	189.4	192.1	-
Motion picture theaters .....	783	135.4	129.4	132.0	134.3	-	-	-	-	-	-
Video tape rental .....	784	156.8	157.4	160.0	159.9	-	126.6	128.4	129.3	129.9	-
Amusement and recreation services .....	79	1,734.8	1,722.2	1,805.4	1,857.0	1,819.9	1,539.0	1,529.3	1,604.4	1,657.4	-
Bowling centers .....	793	68.3	71.5	67.8	65.8	-	60.3	63.5	59.8	57.6	-
Misc. amusement and recreation services .....	799	1,333.8	1,320.1	1,385.0	1,433.6	-	1,188.7	1,178.0	1,234.9	1,283.8	-
Physical fitness facilities .....	7991	157.5	158.1	167.8	167.0	-	139.8	140.9	149.0	148.8	-
Membership sports and recreation clubs .....	7997	414.4	403.0	449.3	466.0	-	370.5	359.8	403.7	419.6	-
Health services .....	80	9,507.2	9,514.6	9,695.1	9,723.3	9,737.0	8,432.5	8,436.4	8,596.2	8,620.3	-
Offices and clinics of medical doctors .....	801	1,688.6	1,695.6	1,744.4	1,750.7	1,751.1	1,386.9	1,392.5	1,434.2	1,438.7	-
Offices and clinics of dentists .....	802	609.5	614.4	622.1	623.4	-	535.0	538.2	545.0	545.9	-
Offices and clinics of other health practitioners .....	804	415.5	414.9	428.7	427.6	-	344.7	344.1	357.1	356.1	-
Offices and clinics of chiropractors and optometrists .....	8041,2	161.5	161.0	165.7	166.6	-	-	-	-	-	-
Nursing and personal care facilities .....	805	1,741.3	1,744.4	1,762.4	1,768.7	1,772.1	1,569.3	1,570.7	1,585.4	1,591.7	-
Skilled nursing care facilities .....	8051	1,295.7	1,298.4	1,312.7	1,316.5	-	-	-	-	-	-
Intermediate care facilities .....	8052	213.6	213.3	213.7	213.7	-	192.9	192.6	192.2	191.6	-
Nursing and personal care, nec .....	8059	232.0	232.7	236.0	238.5	-	-	-	-	-	-
Hospitals .....	806	3,825.7	3,818.4	3,876.5	3,889.4	3,892.4	3,501.7	3,496.3	3,552.2	3,563.6	-
General medical and surgical hospitals .....	8062	3,528.7	3,522.6	3,577.2	3,588.7	-	-	-	-	-	-
Psychiatric hospitals .....	8063	87.5	86.4	86.3	86.5	-	-	-	-	-	-
Specialty hospitals, excluding psychiatric .....	8069	209.5	209.4	213.0	214.2	-	-	-	-	-	-
Medical and dental laboratories .....	807	198.2	198.9	206.8	207.6	-	-	-	-	-	-
Home health care services .....	808	665.2	665.7	684.7	685.2	684.4	615.0	615.2	631.4	631.4	-
Legal services .....	81	945.8	939.9	967.8	972.3	967.3	757.4	751.3	774.3	779.0	-
Educational services .....	82	1,773.5	1,744.9	1,889.7	1,818.1	1,782.7	-	-	-	-	-
Elementary and secondary schools .....	821	554.9	544.7	591.8	555.2	-	-	-	-	-	-
Colleges and universities .....	822	966.9	949.7	1,035.1	992.6	-	-	-	-	-	-
Vocational schools .....	824	76.8	77.6	82.8	82.2	-	-	-	-	-	-
Social services .....	83	2,391.0	2,375.9	2,467.6	2,470.5	2,466.3	2,082.4	2,066.9	2,140.0	2,152.6	-
Individual and family services .....	832	654.7	650.6	663.1	670.4	-	569.7	565.6	574.9	581.8	-
Job training and related services .....	833	346.2	323.8	334.7	359.5	-	301.3	279.7	289.2	314.3	-
Child day care services .....	835	513.8	521.9	574.4	534.0	544.6	452.0	459.3	507.9	470.5	-
Residential care .....	836	681.1	683.5	704.6	708.3	711.4	591.1	593.4	611.2	615.5	-
Social services, nec .....	839	195.2	196.1	190.8	198.3	-	168.3	168.9	156.8	170.5	-
Museums and botanical and zoological gardens .....	84	93.3	91.7	95.0	96.3	94.7	-	-	-	-	-
Membership organizations .....	86	2,248.9	2,228.0	2,237.4	2,276.5	2,244.8	-	-	-	-	-
Business associations .....	861	108.7	109.5	108.5	109.6	-	-	-	-	-	-
Professional organizations .....	862	58.1	58.2	59.0	58.8	-	41.4	41.4	42.6	42.1	-
Labor organizations .....	863	138.6	142.2	142.7	136.2	-	-	-	-	-	-
Civic and social associations .....	864	498.4	466.7	483.4	527.7	-	-	-	-	-	-
Engineering and management services .....	87	2,868.4	2,872.8	3,008.1	3,034.5	3,044.8	2,206.7	2,209.1	2,308.3	2,328.2	-
Engineering and architectural services .....	871	850.5	855.0	884.7	891.5	896.6	701.8	705.2	727.2	734.7	-
Engineering services .....	8711	652.9	656.7	675.0	680.4	-	543.6	547.2	560.6	566.4	-
Architectural services .....	8712	140.4	140.9	149.9	150.9	-	110.7	110.5	117.4	118.7	-
Surveying services .....	8713	57.2	57.4	59.8	60.2	-	47.5	47.5	49.2	49.6	-
Accounting, auditing, and bookkeeping .....	872	554.3	556.9	587.9	587.7	-	395.5	397.6	413.8	412.4	-

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>				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Services—Continued</b>											
<b>Engineering and management services—Continued</b>											
Research and testing services .....	873	581.3	577.3	577.5	584.9	-	449.2	445.9	442.0	448.2	-
Commercial physical research .....	8731	219.8	219.0	212.7	214.1	-	157.3	156.8	147.7	148.7	-
Commercial nonphysical research .....	8732	127.2	125.7	132.5	134.8	-	105.2	103.6	109.8	111.8	-
Noncommercial research organizations .....	8733	143.5	141.6	142.9	145.9	-	112.2	110.8	111.6	114.2	-
Management and public relations .....	874	882.3	883.6	958.0	970.4	978.2	660.2	660.4	725.3	732.9	-
Management services .....	8741	305.3	308.7	331.1	332.6	-	222.0	224.8	247.6	247.9	-
Management consulting services .....	8742	306.3	309.1	338.0	344.8	-	231.1	234.7	257.8	262.0	-
Public relations services .....	8743	35.6	36.4	40.8	41.4	-	23.0	23.7	26.8	27.4	-
Services, nec .....	89	47.9	48.3	48.8	49.5	49.4	38.3	38.5	38.9	39.4	-
<b>Government</b> .....		18,383	18,280	19,702	18,623	18,500	-	-	-	-	-
<b>Federal Government<sup>4</sup></b> .....		2,776	2,758	2,720	2,713	2,706	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		2,714.1	2,696.7	2,657.5	-	-	-	-	-	-	-
Department of Defense .....		751.6	744.5	707.1	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		850.1	847.0	849.5	-	-	-	-	-	-	-
Other executive agencies .....		1,112.4	1,105.2	1,100.9	-	-	-	-	-	-	-
Legislative .....		32.8	31.7	32.3	-	-	-	-	-	-	-
Judicial .....		28.9	29.2	29.8	-	-	-	-	-	-	-
Federal Government, except Postal Service .....		1,925.7	1,910.6	1,870.1	1,867.5	1,855.5	-	-	-	-	-
<b>Federal Government, by industry:</b>											
Manufacturing activities .....		54.5	52.0	48.4	48.2	-	-	-	-	-	-
Ship building and repairing .....	3731	23.1	22.9	22.1	22.1	-	-	-	-	-	-
Transportation and public utilities, except Postal Service .....		23.2	23.2	21.3	21.2	-	-	-	-	-	-
Services .....		372.9	373.2	359.3	361.1	-	-	-	-	-	-
Hospitals .....	806	231.2	229.6	221.2	222.0	-	-	-	-	-	-
State government .....		4,390	4,386	4,498	4,431	4,424	-	-	-	-	-
Hospitals .....	806	375.9	374.0	370.7	371.2	-	-	-	-	-	-
Education .....	82	1,643.4	1,652.5	1,772.1	1,678.4	1,673.3	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		1,864.8	1,851.8	1,852.2	1,875.6	-	-	-	-	-	-
State government, except education .....		2,746.6	2,733.3	2,725.6	2,752.9	2,751.0	-	-	-	-	-
Local government .....		11,217	11,136	12,484	11,479	11,370	-	-	-	-	-
Transportation and public utilities .....		458.5	456.6	455.0	456.3	-	-	-	-	-	-
Hospitals .....	806	661.7	662.8	676.2	678.4	-	-	-	-	-	-
Education .....	82	5,613.1	5,603.3	6,926.0	5,773.5	5,745.0	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		3,945.3	3,899.7	3,904.2	4,006.2	-	-	-	-	-	-
Local government, except education .....		5,603.9	5,532.6	5,558.0	5,705.4	5,624.8	-	-	-	-	-

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

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

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

<sup>4</sup> Prepared by the Office of Personnel Management. Data relate to civilian employment only and exclude the Central Intelligence Agency and

the National Security Agency.

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

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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	May 1996	June 1996	Apr. 1997	May 1997	June 1997
<b>Total</b> .....	57,985	58,031	58,947	59,297	59,367
<b>Total private</b> .....	46,984	47,322	47,801	48,126	48,449
<b>Goods-producing</b> .....	6,601	6,648	6,587	6,618	6,681
<b>Mining</b> .....	79	81	77	78	80
<b>Construction</b> .....	599	612	616	626	637
<b>Manufacturing</b> .....	5,923	5,955	5,894	5,914	5,964
<b>Durable goods</b> .....	2,834	2,850	2,863	2,873	2,897
Lumber and wood products .....	133	136	137	138	140
Furniture and fixtures .....	157	158	159	160	161
Stone, clay, and glass products .....	102	103	101	102	102
Primary metal industries .....	102	103	102	102	104
Fabricated metal products .....	317	319	323	325	327
Industrial machinery and equipment .....	456	459	471	472	476
Electronic and other electrical equipment .....	684	685	675	677	682
Transportation equipment .....	361	363	377	380	385
Instruments and related products .....	351	352	347	348	349
Miscellaneous manufacturing .....	172	173	170	170	172
<b>Nondurable goods</b> .....	3,089	3,105	3,031	3,041	3,067
Food and kindred products .....	539	547	533	538	551
Tobacco products .....	11	12	11	11	11
Textile mill products .....	293	293	285	286	287
Apparel and other textile products .....	653	650	611	610	609
Paper and allied products .....	163	166	162	163	166
Printing and publishing .....	692	694	694	696	700
Chemicals and allied products .....	326	329	325	326	329
Petroleum and coal products .....	24	25	24	24	25
Rubber and misc. plastics products .....	334	336	336	337	340
Leather and leather products .....	53	54	50	50	49
<b>Service-producing</b> .....	51,384	51,383	52,360	52,679	52,686
<b>Transportation and public utilities</b> .....	1,908	1,915	1,936	1,946	1,946
<b>Wholesale trade</b> .....	1,984	1,998	2,033	2,046	2,055
<b>Retail trade</b> .....	11,320	11,451	11,395	11,576	11,709
<b>Finance, insurance, and real estate</b> .....	4,345	4,380	4,407	4,426	4,467
<b>Services</b> .....	20,826	20,930	21,443	21,514	21,591
<b>Government</b> .....	11,001	10,709	11,146	11,171	10,918
Federal .....	1,168	1,173	1,144	1,148	1,154
State .....	2,365	2,259	2,426	2,396	2,292
Local .....	7,468	7,277	7,576	7,627	7,472

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Alabama</b> .....	1,818.4	1,843.6	1,836.6	10.7	10.0	10.1	94.3	99.8	100.3
Birmingham .....	450.1	456.6	455.7	3.4	3.3	3.3	26.1	27.8	28.4
Huntsville .....	165.9	169.7	167.9	(1)	(1)	(1)	6.0	6.0	6.1
Mobile .....	214.3	221.3	221.1	(1)	(1)	(1)	15.6	17.2	16.9
Montgomery .....	154.6	155.6	155.9	(1)	(1)	(1)	9.0	9.2	9.1
Tuscaloosa .....	73.7	74.6	74.9	2.7	2.7	2.7	5.3	5.9	6.0
<b>Alaska</b> .....	283.7	277.4	284.6	10.4	9.6	9.9	15.3	14.3	15.1
Anchorage .....	124.0	125.5	125.8	2.4	2.4	2.4	7.6	7.3	7.7
<b>Arizona</b> .....	1,852.4	1,952.4	1,932.7	14.7	14.9	15.1	127.4	132.8	133.7
Phoenix-Mesa .....	1,285.4	1,369.2	1,362.3	6.7	7.8	8.4	90.7	96.4	97.3
Tucson .....	298.5	311.6	301.2	2.4	2.3	2.5	19.4	18.8	19.2
<b>Arkansas</b> .....	1,075.7	1,103.3	1,086.4	3.5	3.5	3.5	49.3	51.1	51.7
Fayetteville-Springdale-Rogers .....	133.2	137.0	135.5	(1)	(1)	(1)	6.1	6.2	6.2
Fort Smith .....	94.8	94.8	94.2	.9	.8	.9	3.8	3.7	3.8
Little Rock-North Little Rock .....	295.3	301.1	296.9	(1)	(1)	(1)	14.8	14.8	15.0
Pine Bluff .....	35.2	36.0	35.2	(1)	(1)	(1)	1.2	1.1	1.1
<b>California</b> .....	12,749.5	13,180.8	13,116.6	29.8	29.6	29.8	523.2	560.3	573.1
Bakersfield .....	173.3	182.4	178.0	10.9	11.2	11.2	8.6	9.4	9.6
Fresno .....	273.4	275.0	277.3	.6	.6	.5	13.8	13.4	13.6
Los Angeles-Long Beach .....	3,784.2	3,872.2	3,847.0	5.7	5.8	5.8	109.4	108.7	109.2
Modesto .....	131.8	132.6	135.6	(2)	(2)	(2)	6.8	6.6	7.0
Oakland .....	915.4	936.9	930.3	2.2	2.1	2.1	48.8	49.3	50.8
Orange County .....	1,178.2	1,224.1	1,215.1	.9	.9	.9	52.6	55.8	56.3
Riverside-San Bernardino .....	797.5	838.2	830.8	1.2	1.3	1.3	47.8	50.7	51.6
Sacramento .....	605.0	620.5	620.6	.2	.2	.2	31.3	33.1	33.6
Salinas .....	115.4	118.2	118.7	.1	.1	.1	4.3	4.4	4.5
San Diego .....	994.8	1,027.3	1,017.9	.3	.3	.3	45.0	48.7	49.5
San Francisco .....	950.9	979.8	979.5	.6	.6	.6	31.7	34.9	35.7
San Jose .....	884.6	920.0	920.1	.1	.2	.2	33.4	35.9	36.7
Santa Barbara-Santa Maria-Lompoc .....	146.3	152.0	149.3	1.1	1.1	1.1	5.9	6.2	6.3
Santa Rosa .....	154.9	163.1	160.5	.6	.5	.5	8.9	9.0	9.3
Stockton-Lodi .....	166.2	167.8	170.6	.1	.1	.1	6.9	8.0	8.1
Vallejo-Fairfield-Napa .....	145.4	148.6	148.3	.5	.5	.5	8.8	8.8	9.1
Ventura .....	239.6	247.6	243.3	1.8	1.5	1.4	10.5	11.4	11.5
<b>Colorado</b> .....	1,894.8	1,947.2	1,934.9	13.7	13.4	13.5	117.9	120.6	122.3
Boulder-Longmont .....	149.1	154.0	153.9	(1)	(1)	(1)	6.6	6.1	6.3
Colorado Springs .....	207.6	217.7	214.5	(1)	(1)	(1)	12.8	13.1	13.0
Denver .....	1,006.6	1,033.2	1,027.4	6.9	6.3	6.3	59.7	61.4	61.9
<b>Connecticut</b> .....	1,580.9	1,627.4	1,613.9	.8	.8	.9	56.7	58.6	59.8
Bridgeport .....	179.1	182.5	179.4	(2)	(2)	(2)	5.9	5.7	5.8
Danbury .....	83.0	85.4	83.6	(1)	(1)	(1)	3.1	3.1	3.2
Hartford .....	584.5	591.3	582.5	(1)	(1)	(1)	20.8	20.0	20.1
New Haven-Meriden .....	244.7	247.9	245.2	(1)	(1)	(1)	9.5	9.7	10.0
New London-Norwich .....	135.7	139.6	140.3	(1)	(1)	(1)	4.1	4.4	4.4
Stamford-Norwalk .....	199.1	202.3	201.5	(1)	(1)	(1)	6.3	6.0	6.2
Waterbury .....	84.3	87.1	85.9	(2)	(2)	(2)	3.2	3.5	3.6
<b>Delaware</b> .....	383.0	394.2	392.3	.1	.1	.1	21.7	23.5	23.6
Dover .....	52.0	54.5	53.3	.1	.1	.1	2.5	2.6	2.6
Wilmington-Newark .....	292.6	299.2	297.2	.2	.2	.3	16.6	17.4	17.6
<b>District of Columbia</b> .....	633.3	616.9	628.0	.1	.1	.1	8.5	8.9	9.1
Washington PMSA .....	2,442.4	2,483.6	2,492.9	.9	.9	.9	121.9	125.4	127.0
<b>Florida</b> .....	6,093.5	6,400.0	6,308.3	7.2	7.2	7.3	324.9	335.2	336.5
Daytona Beach .....	145.9	152.6	149.9	(2)	(2)	(2)	7.4	7.5	7.5
Fort Lauderdale .....	596.5	631.7	619.8	.1	.1	.1	33.9	36.0	35.7
Fort Myers-Cape Coral .....	144.8	149.8	148.2	(2)	(2)	(2)	12.2	12.1	12.2
Gainesville .....	107.0	109.6	108.8	(2)	(2)	(2)	4.4	3.9	3.9
Jacksonville .....	489.5	515.3	510.6	(2)	(2)	(2)	27.1	27.3	27.1
Lakeland-Winter Haven .....	161.4	171.6	167.7	3.4	3.2	3.1	8.5	8.9	8.8
Melbourne-Titusville-Palm Bay .....	169.3	173.1	173.1	(2)	(2)	(2)	9.8	8.9	8.8
Miami .....	930.7	962.2	950.0	.4	.4	.4	34.5	33.2	32.9
Orlando .....	741.2	794.8	784.6	(2)	(2)	(2)	40.2	41.8	41.8
Pensacola .....	144.7	150.8	148.2	(2)	(2)	(2)	10.7	10.9	10.8
Sarasota-Bradenton .....	221.3	239.0	235.5	(2)	(2)	(2)	12.2	13.6	13.8
Tallahassee .....	142.6	147.3	146.6	(2)	(2)	(2)	6.1	6.2	6.4
Tampa-St. Petersburg-Clearwater .....	1,007.2	1,058.2	1,045.6	.4	.4	.4	48.2	50.3	51.3
West Palm Beach-Boca Raton .....	405.0	430.5	421.6	(2)	(2)	(2)	24.6	25.3	25.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Alabama</b> .....	379.4	379.7	374.5	90.5	90.5	90.3	421.2	423.2	423.6
Birmingham .....	52.5	51.6	51.3	30.1	29.8	29.8	110.3	110.6	110.6
Huntsville .....	37.0	39.1	37.6	3.5	3.5	3.5	33.5	33.3	33.5
Mobile .....	27.0	27.3	27.4	13.1	13.4	13.4	58.1	59.9	59.9
Montgomery .....	17.8	17.8	17.9	6.5	6.6	6.6	36.9	37.7	37.7
Tuscaloosa .....	11.0	10.7	10.9	2.5	2.6	2.6	17.1	17.2	17.2
<b>Alaska</b> .....	24.8	18.0	23.9	24.6	25.1	25.4	59.3	58.3	59.5
Anchorage .....	2.1	2.1	2.1	12.1	12.8	12.7	30.6	30.4	30.7
<b>Arizona</b> .....	199.6	205.6	206.5	92.4	96.0	96.1	458.8	481.1	479.1
Phoenix-Mesa .....	153.8	158.5	159.8	66.2	69.4	69.8	317.3	340.4	339.9
Tucson .....	28.8	29.6	29.5	13.3	13.8	13.4	65.5	67.9	67.3
<b>Arkansas</b> .....	253.3	253.8	251.2	64.7	65.6	65.6	249.2	252.0	251.2
Fayetteville-Springdale-Rogers .....	33.9	33.9	33.7	9.5	9.4	9.5	36.9	37.7	37.6
Fort Smith .....	28.1	27.6	27.2	6.4	6.5	6.6	19.6	20.1	19.9
Little Rock-North Little Rock .....	34.0	33.3	33.2	20.4	20.7	20.6	69.5	69.6	69.5
Pine Bluff .....	8.0	8.2	8.1	1.8	1.8	1.8	7.4	7.4	7.3
<b>California</b> .....	1,872.6	1,893.6	1,909.1	648.0	660.5	666.4	2,973.3	3,021.6	3,024.2
Bakersfield .....	10.0	9.9	10.0	9.2	9.4	9.5	42.5	43.5	43.4
Fresno .....	31.7	30.1	32.5	14.0	14.7	14.9	67.0	66.1	66.3
Los Angeles-Long Beach .....	646.7	655.9	655.3	205.5	208.0	208.4	837.3	848.5	846.1
Modesto .....	29.5	27.3	31.0	5.7	5.8	5.9	32.1	32.7	32.8
Oakland .....	115.2	116.7	116.6	59.2	61.6	61.8	209.1	210.8	211.8
Orange County .....	211.5	218.6	218.4	42.6	44.5	44.5	296.5	304.0	304.0
Riverside-San Bernardino .....	99.7	102.8	102.8	42.6	43.4	43.6	208.1	216.4	215.9
Sacramento .....	43.5	44.6	45.3	25.5	25.6	25.9	134.9	136.4	137.0
Salinas .....	9.9	9.2	9.2	5.4	5.5	5.6	30.6	31.6	31.8
San Diego .....	116.7	118.7	119.2	38.3	38.6	38.8	234.5	237.2	237.4
San Francisco .....	76.2	76.5	76.8	76.2	77.8	78.2	198.9	201.6	202.0
San Jose .....	249.3	255.6	257.4	25.3	26.2	26.6	173.4	179.7	179.8
Santa Barbara-Santa Maria-Lompoc .....	16.4	17.7	17.4	5.5	5.6	5.7	35.3	36.0	36.0
Santa Rosa .....	23.4	24.5	24.4	8.0	6.2	6.2	40.3	41.7	41.9
Stockton-Lodi .....	26.7	23.1	26.5	12.5	12.1	12.7	39.8	39.7	40.1
Vallejo-Fairfield-Napa .....	17.8	18.3	18.6	6.0	6.0	6.3	38.3	38.2	38.2
Ventura .....	30.5	31.5	31.4	9.8	10.1	10.1	59.2	60.5	60.4
<b>Colorado</b> .....	196.5	197.6	198.3	121.1	116.4	116.3	462.1	473.5	474.3
Boulder-Longmont .....	29.9	30.0	30.3	3.6	3.5	3.6	33.2	34.7	35.0
Colorado Springs .....	24.4	25.0	25.3	11.4	11.6	11.6	46.4	48.1	47.8
Denver .....	89.6	90.2	90.3	84.9	81.0	81.6	243.2	252.9	252.6
<b>Connecticut</b> .....	272.3	276.0	272.2	71.7	76.9	74.7	348.5	355.8	354.2
Bridgeport .....	39.2	40.0	38.9	7.3	7.5	7.4	40.4	40.9	40.4
Danbury .....	19.0	19.1	18.9	2.8	3.0	3.0	22.1	22.2	22.1
Hartford .....	88.8	92.9	91.1	24.6	26.7	25.0	123.0	121.2	118.8
New Haven-Meriden .....	39.1	38.1	37.2	15.8	16.3	16.1	51.0	53.7	53.0
New London-Norwich .....	26.3	24.4	24.3	6.3	6.7	6.7	29.4	29.3	29.6
Stamford-Norwalk .....	28.3	28.6	28.5	9.9	10.2	9.9	44.1	44.9	44.6
Waterbury .....	18.1	18.7	18.2	3.3	3.6	3.5	17.0	17.6	17.3
<b>Delaware</b> .....	58.9	58.7	58.6	15.5	16.1	16.1	86.6	88.3	88.7
Dover .....	6.7	6.6	6.6	1.6	1.7	1.6	13.2	13.3	13.1
Wilmington-Newark .....	43.2	42.7	42.3	13.6	14.1	14.1	60.2	61.7	61.3
<b>District of Columbia</b> .....	13.1	13.7	13.6	19.3	18.9	18.7	49.2	49.5	49.3
Washington PMSA .....	96.0	98.9	98.8	112.5	113.7	113.8	469.3	480.7	480.2
<b>Florida</b> .....	487.9	493.5	490.8	313.2	324.3	324.1	1,583.3	1,653.5	1,635.5
Daytona Beach .....	13.9	14.2	14.2	3.6	3.3	3.3	42.7	44.0	44.0
Fort Lauderdale .....	42.9	44.0	43.8	30.3	32.5	32.3	167.1	175.1	172.2
Fort Myers-Cape Coral .....	6.6	7.0	6.9	6.5	6.4	6.4	41.1	42.4	42.2
Gainesville .....	5.6	5.5	5.6	2.3	2.3	2.3	23.3	25.0	24.9
Jacksonville .....	36.7	37.8	37.8	34.6	36.3	36.1	123.5	129.2	128.7
Lakeland-Winter Haven .....	20.7	21.3	21.2	8.9	9.0	8.7	45.1	47.5	46.8
Melbourne-Titusville-Palm Bay .....	26.0	26.1	26.2	4.8	4.9	4.9	40.3	41.8	41.8
Miami .....	77.3	77.5	76.5	79.3	82.4	82.6	244.3	247.8	246.9
Orlando .....	51.6	52.8	52.5	39.5	40.6	40.5	184.4	195.1	194.3
Pensacola .....	11.5	11.6	11.5	6.7	6.6	6.7	37.6	40.1	39.6
Sarasota-Bradenton .....	20.2	20.6	20.5	5.3	5.4	5.4	55.9	59.3	58.6
Tallahassee .....	5.2	5.3	5.3	3.7	3.9	3.9	29.7	30.4	30.5
Tampa-St. Petersburg-Clearwater .....	86.4	88.1	87.8	45.0	45.6	45.5	252.5	264.3	261.2
West Palm Beach-Boca Raton .....	28.0	29.3	28.7	15.3	16.1	16.0	103.5	112.1	108.5

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Alabama</b> .....	82.4	84.4	84.6	406.6	415.3	416.2	333.3	340.7	337.0
Birmingham .....	33.0	34.1	34.7	128.3	129.9	130.2	66.4	69.5	67.4
Huntsville .....	4.6	4.8	4.7	43.4	45.5	45.7	37.9	37.5	36.8
Mobile .....	9.6	9.7	9.6	58.1	59.6	60.0	32.8	34.2	33.9
Montgomery .....	9.0	9.3	9.3	39.8	40.1	40.1	35.6	34.9	35.2
Tuscaloosa .....	2.4	2.5	2.6	13.1	13.5	13.5	19.6	19.5	19.4
<b>Alaska</b> .....	12.2	12.1	12.2	67.3	68.0	69.0	69.8	72.0	69.6
Anchorage .....	7.3	7.3	7.4	35.0	35.3	35.9	26.9	27.9	26.9
<b>Arizona</b> .....	115.6	123.0	123.8	560.6	593.8	591.3	283.3	305.2	287.1
Phoenix-Mesa .....	95.0	102.9	103.5	401.3	429.8	427.1	154.4	164.0	156.5
Tucson .....	12.4	12.5	12.6	97.2	99.7	99.0	59.5	67.2	57.7
<b>Arkansas</b> .....	43.8	44.4	44.4	247.4	253.2	252.6	164.5	179.7	166.2
Fayetteville-Springdale-Rogers .....	4.8	4.8	4.8	25.4	26.7	26.5	16.6	18.3	17.2
Fort Smith .....	3.1	3.1	3.1	24.2	23.8	24.1	8.7	9.2	8.6
Little Rock-North Little Rock .....	17.2	17.6	17.6	85.1	87.5	86.5	54.3	57.6	54.5
Pine Bluff .....	1.4	1.3	1.3	8.4	8.6	8.6	7.0	7.6	7.0
<b>California</b> .....	734.0	736.3	737.9	3,935.4	4,094.3	4,103.9	2,033.2	2,184.6	2,072.2
Bakersfield .....	6.1	6.5	6.5	42.0	42.7	42.3	44.0	49.8	45.5
Fresno .....	14.2	13.8	13.7	69.6	69.6	71.9	62.5	66.7	63.9
Los Angeles-Long Beach .....	216.5	215.9	216.4	1,241.9	1,282.4	1,277.9	521.2	547.0	527.9
Modesto .....	4.3	4.5	4.4	30.6	31.5	31.4	22.8	24.2	23.1
Oakland .....	52.0	51.2	51.3	268.3	275.5	275.3	160.6	169.7	160.6
Orange County .....	86.1	86.2	86.3	366.7	378.3	378.9	121.3	135.8	125.8
Riverside-San Bernardino .....	29.7	30.0	30.0	210.0	218.7	218.5	158.6	174.9	167.1
Sacramento .....	39.3	39.6	39.8	167.4	173.7	176.1	162.9	167.3	162.7
Salinas .....	6.0	6.0	6.2	32.0	32.9	33.3	27.1	28.5	28.0
San Diego .....	56.6	56.8	57.5	323.7	330.4	332.9	179.7	196.6	182.3
San Francisco .....	98.5	98.9	99.1	347.2	362.6	363.8	121.6	126.9	123.3
San Jose .....	30.1	30.5	30.4	285.3	302.3	300.5	87.7	89.6	88.5
Santa Barbara-Santa Maria-Lompoc .....	7.1	7.1	7.1	46.6	47.0	46.6	28.4	31.3	29.1
Santa Rosa .....	9.3	9.3	9.4	45.4	46.2	46.2	21.0	25.7	22.6
Stockton-Lodi .....	8.5	8.6	8.6	40.3	42.1	42.1	31.4	34.1	32.4
Vallejo-Fairfield-Napa .....	5.6	5.7	5.7	37.9	39.3	39.1	30.5	31.8	30.8
Ventura .....	11.7	11.9	12.0	73.3	76.7	77.4	42.8	44.0	39.1
<b>Colorado</b> .....	119.5	121.3	121.8	573.8	592.1	594.5	290.2	312.3	293.9
Boulder-Longmont .....	5.5	5.5	5.6	47.1	49.4	49.7	23.2	24.8	23.4
Colorado Springs .....	10.6	10.7	10.6	69.9	74.5	73.5	32.1	34.7	32.7
Denver .....	79.0	80.9	81.6	309.4	317.2	318.0	133.9	143.3	135.1
<b>Connecticut</b> .....	131.6	130.7	130.9	488.4	501.7	504.5	210.9	226.9	216.7
Bridgeport .....	10.5	10.6	10.6	56.6	57.8	57.1	19.2	20.0	19.2
Danbury .....	4.0	4.3	4.4	23.8	24.4	24.1	8.2	9.3	7.9
Hartford .....	69.9	67.0	67.2	167.1	170.9	170.4	90.3	92.6	89.9
New Haven-Meriden .....	13.8	13.9	13.7	84.8	85.5	85.6	30.7	30.7	29.6
New London-Norwich .....	3.6	3.7	3.8	34.4	35.0	34.9	31.6	36.1	36.6
Stamford-Norwalk .....	22.9	23.5	23.7	69.8	71.3	71.6	17.8	17.8	17.0
Waterbury .....	4.5	4.6	4.7	25.6	26.3	26.1	12.6	12.8	12.5
<b>Delaware</b> .....	44.3	47.2	47.3	104.3	106.8	106.4	51.6	53.5	51.5
Dover .....	2.4	2.6	2.6	11.1	12.5	12.2	14.4	15.2	14.6
Wilmington-Newark .....	38.3	40.7	40.8	84.6	85.3	85.1	35.9	37.1	35.7
<b>District of Columbia</b> .....	28.2	27.7	27.8	263.6	266.3	265.6	251.3	231.8	243.8
Washington PMSA .....	132.5	129.9	130.0	913.6	942.5	947.8	595.7	591.6	594.4
<b>Florida</b> .....	395.8	407.6	409.9	2,116.6	2,232.7	2,222.8	864.6	946.0	881.4
Daytona Beach .....	6.7	6.6	6.6	50.9	52.9	52.8	20.7	24.1	21.5
Fort Lauderdale .....	43.9	43.7	44.0	201.5	215.1	213.2	76.8	85.2	78.5
Fort Myers-Cape Coral .....	8.1	8.3	8.4	48.3	49.2	49.4	21.9	24.3	22.6
Gainesville .....	4.9	5.2	5.3	30.9	31.3	31.2	35.6	36.4	35.6
Jacksonville .....	50.9	52.8	52.8	156.3	163.2	163.9	60.0	68.2	63.7
Lakeland-Winter Haven .....	7.6	7.8	7.8	44.4	47.5	47.5	22.8	26.4	23.8
Melbourne-Titusville-Palm Bay .....	5.7	5.8	5.8	58.6	60.9	61.2	24.3	24.7	24.4
Miami .....	66.9	68.6	68.6	300.4	316.4	312.3	127.6	135.9	129.8
Orlando .....	44.7	46.2	46.7	306.9	333.6	332.6	73.5	84.3	75.7
Pensacola .....	5.9	5.8	5.8	46.9	48.2	48.2	25.1	27.3	25.3
Sarasota-Bradenton .....	11.5	11.7	11.7	95.8	104.2	104.0	20.3	24.1	21.4
Tallahassee .....	5.5	5.8	5.8	37.2	39.4	39.0	55.0	56.1	55.5
Tampa-St. Petersburg-Clearwater .....	71.6	75.9	76.2	380.9	400.9	399.6	122.2	132.7	123.6
West Palm Beach-Boca Raton .....	29.0	29.7	29.9	155.7	164.4	163.4	48.9	53.6	49.3

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Georgia</b> .....	3,588.5	3,604.4	3,595.4	7.9	7.9	7.9	171.0	166.5	168.9
Albany .....	58.5	59.8	59.9	(2)	(2)	(2)	4.2	3.8	3.7
Athens .....	70.6	72.8	70.3	(1)	(1)	(1)	2.7	2.5	2.7
Atlanta .....	1,957.7	1,955.4	1,954.1	1.6	1.6	1.5	94.6	93.4	94.8
Augusta-Aiken .....	192.8	195.5	194.4	.4	.4	.4	10.9	10.7	10.5
Columbus .....	110.1	113.7	112.5	(1)	(1)	(1)	5.1	5.3	5.3
Macon .....	146.4	148.2	146.9	1.2	1.1	1.1	6.4	6.4	6.5
Savannah .....	129.6	131.9	131.1	(1)	(1)	(1)	7.7	7.3	7.5
<b>Hawaii</b> .....	525.1	530.2	524.7	(1)	(1)	(1)	23.8	21.1	21.3
Honolulu .....	399.3	403.4	397.0	(1)	(1)	(1)	18.0	16.0	16.2
<b>Idaho</b> .....	496.2	507.1	504.7	3.3	3.3	3.2	33.6	34.3	35.1
Boise City .....	186.3	195.9	194.1	(1)	(1)	(1)	13.8	14.7	14.8
<b>Illinois</b> .....	5,700.0	5,784.9	5,762.9	12.8	12.0	12.0	239.8	235.7	242.2
Bloomington-Normal .....	74.6	76.0	75.8	(1)	(1)	(1)	2.7	2.7	2.7
Champaign-Urbana .....	96.6	95.2	94.3	(1)	(1)	(1)	3.6	3.2	3.6
Chicago .....	3,998.1	4,059.7	4,051.8	1.8	1.6	1.6	163.1	161.7	166.3
Davenport-Moline-Rock Island .....	174.0	177.8	176.7	(1)	(1)	(1)	9.3	9.2	9.5
Decatur .....	58.1	58.0	57.9	(1)	(1)	(1)	3.9	3.9	4.0
Kankakee .....	43.6	43.8	43.8	(1)	(1)	(1)	2.5	2.2	2.5
Peoria-Pekin .....	165.0	166.7	165.9	(1)	(1)	(1)	8.0	7.9	8.3
Rockford .....	175.5	174.4	173.6	(1)	(1)	(1)	7.4	7.2	7.4
Springfield .....	112.6	113.6	113.3	(1)	(1)	(1)	5.4	5.3	5.4
<b>Indiana</b> .....	2,774.3	2,854.2	2,814.4	6.5	6.7	6.6	143.4	144.2	147.0
Bloomington .....	59.7	62.4	61.6	(1)	(1)	(1)	3.6	3.5	3.8
Elkhart-Goshen .....	115.3	117.2	116.3	(1)	(1)	(1)	4.6	4.6	4.6
Evansville-Henderson .....	150.0	152.4	150.8	1.4	1.5	1.5	9.8	9.7	10.0
Fort Wayne .....	263.2	267.7	265.4	(1)	(1)	(1)	13.1	13.7	13.7
Gary .....	258.4	266.8	261.9	(1)	(1)	(1)	18.6	17.7	18.0
Indianapolis .....	806.0	827.0	823.2	.8	.7	.7	44.8	45.9	46.2
Kokomo .....	51.5	52.3	51.6	(1)	(1)	(1)	1.7	2.1	2.2
Lafayette .....	85.8	87.8	86.8	(1)	(1)	(1)	4.0	4.4	4.5
Muncie .....	56.3	58.8	57.8	(1)	(1)	(1)	2.7	2.8	2.8
South Bend .....	131.2	136.7	135.4	(1)	(1)	(1)	7.6	7.6	7.8
Terre Haute .....	66.2	67.2	66.7	.2	.2	.2	3.3	3.4	3.4
<b>Iowa</b> .....	1,369.8	1,424.2	1,395.1	2.3	2.2	2.3	65.5	68.1	69.2
Cedar Rapids .....	107.5	111.2	109.3	(1)	(1)	(1)	6.0	5.7	5.8
Des Moines .....	266.8	272.8	269.4	(1)	(1)	(1)	12.8	12.5	12.9
Dubuque .....	48.7	50.4	49.7	(1)	(1)	(1)	2.2	2.1	2.2
Iowa City .....	61.3	64.0	60.9	(1)	(1)	(1)	2.4	2.4	2.5
Sioux City .....	64.6	65.5	64.5	(1)	(1)	(1)	3.9	3.9	4.0
Waterloo-Cedar Falls .....	67.0	68.4	67.9	(1)	(1)	(1)	2.8	3.0	3.0
<b>Kansas</b> .....	1,208.9	1,272.4	1,251.7	7.9	7.9	7.9	61.8	63.3	64.5
Lawrence .....	41.5	41.3	41.3	(1)	(1)	(1)	2.3	2.0	2.0
Topeka .....	100.5	100.3	98.3	(1)	(1)	(1)	4.8	4.6	4.7
Wichita .....	263.1	272.5	269.2	1.4	1.5	1.4	14.4	14.5	14.7
<b>Kentucky</b> .....	1,667.3	1,717.1	1,707.8	23.1	22.2	22.1	82.1	79.2	82.3
Lexington .....	255.7	265.6	262.9	.2	.2	.3	13.2	13.1	13.7
Louisville .....	539.3	554.1	552.1	.6	.7	.7	28.2	27.8	28.7
Owensboro .....	42.0	43.0	42.4	.4	.3	.3	3.2	3.2	3.2
<b>Louisiana</b> .....	1,805.2	1,840.4	1,829.6	49.5	52.1	52.5	112.7	114.6	114.3
Alexandria .....	53.4	53.5	52.8	.1	.1	.1	3.1	3.3	3.2
Baton Rouge .....	276.4	288.4	288.5	.8	1.0	1.0	30.7	32.7	32.8
Houma .....	68.9	72.7	73.1	6.2	7.1	7.4	3.4	3.5	3.5
Lafayette .....	152.4	158.3	159.0	13.9	14.7	14.9	8.6	8.9	9.1
Lake Charles .....	83.0	82.2	82.6	1.4	1.3	1.4	8.8	8.0	8.0
Monroe .....	66.6	67.5	67.1	.2	.2	.2	3.4	3.5	3.5
New Orleans .....	603.0	610.7	610.7	14.4	14.7	14.7	27.5	28.5	28.0
Shreveport-Bossier City .....	167.2	170.2	170.1	2.5	2.5	2.5	10.1	10.1	10.4
<b>Maine</b> .....	542.6	561.9	553.3	.1	.1	.1	25.1	25.6	26.3
Lewiston-Auburn .....	39.3	41.2	40.4	(2)	(2)	(2)	1.7	1.7	1.9
Portland .....	137.1	139.1	138.7	(2)	(2)	(2)	6.3	6.6	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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>Georgia</b> .....	583.5	588.5	585.7	226.3	228.5	230.1	916.5	910.9	913.8
Albany .....	8.5	8.6	8.6	2.7	2.9	2.8	13.8	14.4	14.7
Athens .....	12.0	11.8	11.8	2.0	2.0	2.1	18.4	18.8	18.8
Atlanta .....	214.9	219.1	218.3	162.5	161.4	162.5	528.3	520.8	521.4
Augusta-Aiken .....	41.4	41.3	41.3	6.4	6.6	6.6	43.6	44.2	44.3
Columbus .....	20.7	21.1	20.6	3.8	3.7	3.7	25.3	25.4	25.6
Macon .....	20.4	21.1	21.3	5.2	5.3	5.2	34.0	34.2	34.1
Savannah .....	16.5	17.2	17.1	9.4	9.5	9.6	33.8	34.3	34.1
<b>Hawaii</b> .....	16.9	16.5	16.7	40.8	40.9	41.2	134.6	134.3	134.4
Honolulu .....	12.8	12.6	12.7	33.0	33.1	33.4	100.8	99.1	99.1
<b>Idaho</b> .....	73.5	73.6	74.4	23.0	23.7	23.6	127.3	128.4	128.4
Boise City .....	34.0	34.8	34.6	8.7	9.2	9.2	44.8	47.4	47.2
<b>Illinois</b> .....	972.7	981.8	978.6	329.7	342.3	339.4	1,308.2	1,307.7	1,305.4
Bloomington-Normal .....	8.6	8.9	8.9	2.8	2.8	2.8	17.2	17.5	17.5
Champaign-Urbana .....	11.9	12.3	12.1	2.5	2.5	2.5	21.1	21.2	21.0
Chicago .....	656.3	664.9	661.3	243.9	252.1	250.7	907.7	908.4	905.2
Davenport-Moline-Rock Island .....	29.4	30.2	30.2	9.1	9.1	9.1	47.9	47.8	47.8
Decatur .....	14.0	13.6	13.7	5.2	5.2	5.2	12.3	12.5	12.4
Kankakee .....	8.5	8.6	8.6	1.9	1.9	1.9	10.7	10.6	10.6
Peoria-Pekin .....	31.6	31.9	32.1	9.1	9.2	9.3	40.1	40.5	40.5
Rockford .....	53.1	51.2	51.1	8.1	8.2	8.3	36.8	37.4	37.3
Springfield .....	4.5	4.5	4.6	4.9	4.9	4.9	24.4	24.3	24.5
<b>Indiana</b> .....	663.9	676.1	666.3	140.4	141.6	140.8	684.1	692.0	690.5
Bloomington .....	9.8	10.3	10.2	1.8	1.9	1.9	14.5	14.3	14.2
Elkhart-Goshen .....	59.1	59.0	58.8	3.4	3.3	3.3	22.2	22.4	22.3
Evansville-Henderson .....	31.4	31.7	31.3	7.3	7.4	7.4	36.1	36.1	36.0
Fort Wayne .....	73.1	74.1	73.7	12.7	12.6	12.5	63.7	63.8	63.6
Gary .....	51.4	50.6	50.3	15.0	15.4	15.2	63.2	63.7	63.7
Indianapolis .....	125.1	124.9	125.6	49.2	49.3	49.1	216.9	219.0	219.0
Kokomo .....	21.1	20.4	20.3	1.3	1.3	1.3	11.5	11.6	11.6
Lafayette .....	21.7	22.5	22.2	2.3	2.3	2.3	18.6	18.9	18.7
Muncie .....	10.9	10.8	10.7	4.2	4.1	4.0	13.5	13.5	13.5
South Bend .....	22.4	22.2	22.1	5.9	6.0	6.1	34.2	34.3	34.3
Terre Haute .....	12.1	11.6	11.5	3.4	3.2	3.2	20.2	19.7	19.7
<b>Iowa</b> .....	245.7	250.7	250.3	63.3	65.4	65.7	344.2	345.6	344.5
Cedar Rapids .....	20.1	21.4	21.5	7.8	7.8	7.7	24.9	24.7	24.6
Des Moines .....	24.8	24.8	24.9	13.1	13.8	13.5	71.1	71.2	70.8
Dubuque .....	11.3	12.1	12.1	2.1	2.0	2.0	12.0	12.1	12.2
Iowa City .....	4.7	4.8	4.8	2.1	1.9	1.9	12.3	12.5	12.5
Sioux City .....	12.9	12.6	12.5	3.6	3.6	3.8	16.1	15.8	15.7
Waterloo-Cedar Falls .....	14.4	14.4	14.5	2.0	2.1	2.1	16.3	16.4	16.3
<b>Kansas</b> .....	197.1	204.4	204.8	69.8	72.8	72.4	303.5	312.2	310.6
Lawrence .....	5.1	5.1	5.1	1.1	1.2	1.1	11.4	11.3	11.5
Topeka .....	10.4	9.7	9.7	6.4	6.7	6.7	21.7	21.6	21.3
Wichita .....	62.5	68.7	69.1	10.2	10.2	10.1	61.8	62.9	62.8
<b>Kentucky</b> .....	309.3	315.9	315.6	94.7	97.0	98.3	402.5	414.2	411.8
Lexington .....	43.8	45.6	45.7	10.4	10.5	10.6	59.4	60.8	60.8
Louisville .....	88.0	88.8	88.7	38.0	38.9	39.2	132.6	136.0	136.6
Owensboro .....	6.9	6.8	6.7	2.2	2.3	2.3	10.9	11.3	11.3
<b>Louisiana</b> .....	189.4	190.4	190.2	106.5	109.7	110.4	422.5	431.9	430.9
Alexandria .....	3.4	3.5	3.5	2.8	2.6	2.6	11.8	12.0	12.0
Baton Rouge .....	24.3	24.8	24.8	12.4	12.4	12.5	64.0	67.2	67.6
Houma .....	6.1	7.0	7.1	7.2	7.6	7.6	16.7	17.1	17.0
Lafayette .....	15.7	16.1	16.0	9.2	9.5	9.6	39.7	40.7	41.0
Lake Charles .....	11.5	11.8	11.9	4.4	4.1	4.3	17.9	18.2	18.1
Monroe .....	8.4	7.9	7.8	3.8	3.7	3.8	16.5	17.0	16.9
New Orleans .....	47.8	48.4	47.8	42.1	42.5	42.3	150.1	153.1	152.8
Shreveport-Bossier City .....	19.8	20.0	19.8	8.4	8.2	8.1	38.5	38.9	39.4
<b>Maine</b> .....	85.9	88.4	85.6	22.6	22.9	22.9	143.8	143.5	146.6
Lewiston-Auburn .....	7.5	8.1	7.9	1.7	1.7	1.7	10.1	10.2	10.4
Portland .....	14.3	14.8	14.8	6.2	6.5	6.6	40.6	39.6	40.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Georgia</b> .....	182.3	187.6	189.0	945.2	941.6	945.9	555.8	572.9	554.1
Albany .....	2.2	2.3	2.4	14.9	15.1	15.3	12.2	12.7	12.4
Athens .....	2.1	2.3	2.3	15.1	15.6	15.4	18.3	19.8	17.2
Atlanta .....	123.5	126.2	127.6	588.8	576.8	580.9	243.5	256.1	247.1
Augusta-Aiken .....	6.4	6.2	6.2	45.6	45.7	46.0	38.1	40.4	39.1
Columbus .....	7.3	7.9	8.0	28.4	29.8	29.9	19.5	20.5	19.4
Macon .....	8.4	8.1	8.1	38.9	38.8	38.9	31.9	33.2	31.7
Savannah .....	4.3	4.3	4.4	37.8	38.1	38.0	20.1	21.2	20.4
<b>Hawaii</b> .....	36.7	35.9	35.9	166.3	167.9	169.2	106.0	113.6	106.0
Honolulu .....	29.7	29.0	29.0	120.3	121.9	122.4	84.7	91.7	84.2
<b>Idaho</b> .....	25.4	25.7	25.8	118.2	119.2	120.6	91.9	98.9	93.6
Boise City .....	11.5	11.8	11.8	46.7	48.3	47.9	26.8	29.7	28.4
<b>Illinois</b> .....	388.4	393.8	394.4	1,668.6	1,703.4	1,712.0	780.0	808.2	778.9
Bloomington-Normal .....	13.6	14.0	14.1	18.6	18.6	18.7	11.1	11.5	11.1
Champaign-Urbana .....	3.5	3.5	3.5	20.1	20.3	20.4	33.9	32.2	31.2
Chicago .....	302.7	307.6	307.5	1,242.1	1,267.4	1,277.6	480.5	496.0	481.6
Davenport-Moline-Rock Island .....	8.1	8.4	8.3	46.0	46.2	46.7	24.2	26.9	25.1
Decatur .....	1.9	2.0	1.9	14.2	14.2	14.2	6.6	6.6	6.5
Kankakee .....	1.7	1.7	1.7	11.7	11.9	11.9	6.6	6.9	6.6
Peoria-Pekin .....	8.0	8.2	8.2	52.2	51.8	51.9	16.0	17.2	15.6
Rockford .....	7.4	7.4	7.4	45.9	45.7	45.7	16.8	17.3	16.4
Springfield .....	7.9	7.9	8.0	33.0	33.3	33.3	32.5	33.4	32.6
<b>Indiana</b> .....	136.9	140.3	140.8	654.0	672.5	670.7	345.1	380.8	351.7
Bloomington .....	2.3	2.2	2.1	12.6	12.7	12.6	15.1	17.5	16.8
Elkhart-Goshen .....	2.8	2.8	2.8	17.8	18.5	18.5	5.4	6.6	6.0
Evansville-Henderson .....	7.4	7.4	7.5	42.5	42.9	42.8	14.1	15.7	14.3
Fort Wayne .....	14.7	14.7	14.7	61.6	62.7	62.3	24.3	26.1	24.9
Gary .....	9.5	9.8	9.8	68.5	72.9	72.6	32.2	36.7	32.3
Indianapolis .....	59.7	61.5	61.6	212.7	218.6	218.9	96.7	107.1	102.1
Kokomo .....	1.5	1.5	1.5	8.2	8.4	8.2	6.2	7.0	6.5
Lafayette .....	3.8	3.7	3.7	16.7	16.2	16.1	18.7	19.8	19.3
Muncie .....	1.8	1.8	1.8	15.2	15.3	15.3	8.0	10.5	9.7
South Bend .....	6.7	6.8	6.8	42.4	45.7	45.5	12.0	14.1	12.8
Terre Haute .....	2.3	2.4	2.4	15.7	16.5	16.4	9.0	10.2	9.9
<b>Iowa</b> .....	78.6	79.5	79.6	355.5	375.8	370.8	214.7	236.9	212.7
Cedar Rapids .....	5.7	5.9	5.9	33.6	35.7	35.1	9.4	10.0	8.7
Des Moines .....	36.9	38.0	38.2	75.7	78.0	77.4	32.4	34.5	31.7
Dubuque .....	1.7	1.6	1.6	16.3	16.5	16.6	3.1	4.0	3.0
Iowa City .....	1.8	1.8	1.9	13.5	13.9	13.4	24.5	26.7	23.9
Sioux City .....	2.6	2.6	2.6	18.4	19.1	18.9	6.9	7.7	7.0
Waterloo-Cedar Falls .....	3.2	3.3	3.3	17.8	18.2	18.1	10.5	11.0	10.6
<b>Kansas</b> .....	59.3	60.7	60.9	303.8	313.7	314.2	205.7	237.4	216.4
Lawrence .....	2.0	1.9	1.9	9.7	9.9	9.8	9.9	9.9	9.9
Topeka .....	6.6	6.9	6.9	27.4	27.0	27.1	23.2	23.8	21.9
Wichita .....	11.3	11.1	11.1	71.6	71.1	70.7	29.9	32.5	29.3
<b>Kentucky</b> .....	68.8	69.7	70.0	412.1	427.6	427.2	274.7	291.3	280.5
Lexington .....	10.0	10.4	10.5	69.1	72.3	71.8	49.6	52.7	49.7
Louisville .....	28.9	29.1	29.2	155.0	161.1	160.1	68.0	69.7	68.9
Owensboro .....	1.8	1.8	1.8	10.5	10.9	10.7	6.1	6.4	6.1
<b>Louisiana</b> .....	83.5	84.0	83.9	488.3	492.5	493.7	350.8	365.2	353.7
Alexandria .....	2.3	2.3	2.3	16.9	16.4	16.3	13.0	13.3	12.8
Baton Rouge .....	16.8	17.3	17.4	71.9	74.0	74.4	55.5	59.0	58.0
Houma .....	2.2	2.3	2.3	14.8	15.3	15.4	12.3	12.8	12.8
Lafayette .....	5.8	5.8	5.8	37.7	39.0	39.1	21.8	23.6	23.5
Lake Charles .....	2.7	2.7	2.7	23.4	22.8	22.7	12.9	13.3	13.5
Monroe .....	4.4	4.8	4.8	17.4	17.6	17.6	12.5	12.8	12.5
New Orleans .....	30.9	31.1	31.0	187.6	188.2	188.8	102.6	104.2	105.3
Shreveport-Bossier City .....	6.8	6.5	6.5	49.9	50.5	50.7	31.2	33.5	32.7
<b>Maine</b> .....	27.0	27.6	27.8	156.9	159.1	162.8	81.2	94.7	81.2
Lewiston-Auburn .....	2.0	2.1	2.1	12.5	12.6	12.7	3.8	4.8	3.7
Portland .....	12.3	12.3	12.3	41.5	41.5	41.6	15.9	17.8	16.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Maryland</b> .....	2,224.0	2,278.8	2,264.5	1.2	1.2	1.2	136.4	142.9	143.4
Baltimore PMSA .....	1,139.8	1,161.5	1,152.2	.2	.2	.2	64.2	67.4	67.7
Baltimore City .....	404.1	406.8	405.6	(1)	(1)	(1)	12.6	13.4	13.6
Suburban Maryland-D.C. ....	816.0	835.6	828.3	(1)	(1)	(1)	58.3	62.1	62.1
<b>Massachusetts</b> .....	3,034.9	3,139.3	3,105.4	1.3	1.3	1.3	102.0	104.0	105.9
Barnstable-Yarmouth .....	64.5	61.4	64.7	(1)	(1)	(1)	2.5	2.6	2.6
Boston .....	1,856.5	1,909.0	1,894.1	.4	.4	.4	56.8	57.1	57.8
Brockton .....	90.2	91.8	90.1	(2)	(2)	(2)	3.4	3.2	3.3
Fitchburg-Leominster .....	49.9	51.6	50.3	(2)	(2)	(2)	1.7	1.6	1.8
Lawrence .....	145.2	150.3	147.2	(2)	(2)	(2)	5.7	5.8	5.9
Lowell .....	108.3	112.0	109.5	(1)	(1)	(1)	5.5	5.2	5.2
New Bedford .....	61.2	63.7	62.3	(2)	(2)	(2)	2.3	2.2	2.3
Pittsfield .....	42.8	43.1	43.0	.1	.1	.1	1.7	1.8	1.9
Springfield .....	242.8	249.0	243.6	.1	.1	.1	8.3	8.5	8.6
Worcester .....	215.2	223.9	220.5	.2	.2	.2	7.2	7.7	8.0
<b>Michigan</b> .....	4,284.7	4,438.9	4,354.7	8.0	7.8	7.2	185.1	197.3	202.2
Ann Arbor .....	255.5	262.1	257.9	(1)	(1)	(1)	10.1	10.5	10.8
Benton Harbor .....	70.4	72.4	71.0	(1)	(1)	(1)	2.5	2.4	2.6
Detroit .....	2,038.6	2,113.6	2,077.5	.8	.8	.7	78.1	84.8	86.8
Flint .....	176.3	182.6	178.3	(1)	(1)	(1)	7.4	7.1	7.6
Grand Rapids-Muskegon-Holland ..	531.2	554.3	548.2	(1)	(1)	(1)	26.6	26.9	27.6
Jackson .....	59.9	61.4	60.5	(1)	(1)	(1)	2.4	2.5	2.5
Kalamazoo-Battle Creek .....	202.3	207.1	204.7	(1)	(1)	(1)	8.2	8.4	8.6
Lansing-East Lansing .....	222.3	227.1	224.5	(1)	(1)	(1)	9.0	9.2	9.6
Saginaw-Bay City-Midland .....	173.2	180.3	177.9	(1)	(1)	(1)	9.4	10.0	10.5
<b>Minnesota</b> .....	2,434.7	2,520.5	2,486.3	8.5	8.5	8.5	102.4	103.1	106.5
Duluth-Superior .....	110.1	112.5	112.4	5.2	5.3	5.2	4.1	4.4	4.5
Minneapolis-St. Paul .....	1,578.4	1,623.5	1,609.8	(2)	(2)	(2)	64.3	63.9	66.4
Rochester .....	71.0	73.7	73.5	(1)	(1)	(1)	2.8	3.0	3.1
St. Cloud .....	81.0	83.8	82.7	(1)	(1)	(1)	4.2	4.2	4.3
<b>Mississippi</b> .....	1,085.8	1,098.4	1,092.6	5.3	5.4	5.3	51.2	50.3	51.1
Jackson .....	215.6	219.4	219.3	(2)	(2)	(2)	11.2	11.3	11.0
<b>Missouri</b> .....	2,549.6	2,629.0	2,593.6	5.0	4.9	4.9	122.9	121.4	124.4
Kansas City .....	879.8	908.1	902.5	(1)	(1)	(1)	46.4	49.4	49.6
St. Louis .....	1,266.2	1,296.9	1,284.4	(1)	(1)	(1)	67.2	65.6	68.2
Springfield .....	153.5	158.0	154.7	(1)	(1)	(1)	6.9	6.8	6.6
<b>Montana</b> .....	359.5	370.2	365.8	5.8	5.6	5.8	18.4	19.1	20.2
<b>Nebraska</b> .....	829.3	856.2	848.6	1.3	1.2	1.2	39.8	40.0	40.8
Lincoln .....	141.1	144.4	144.1	(1)	(1)	(1)	6.6	6.4	6.6
Omaha .....	385.5	395.7	393.2	(1)	(1)	(1)	18.7	19.2	19.6
<b>Nevada</b> .....	844.2	898.0	896.2	15.1	15.3	15.5	75.8	85.1	85.5
Las Vegas .....	587.1	634.4	631.1	2.2	2.2	2.2	57.8	65.3	65.3
Reno .....	174.7	178.6	179.1	.6	.6	.6	12.9	13.7	13.9
<b>New Hampshire</b> .....	564.3	580.2	576.4	.5	.5	.5	22.9	22.6	22.6
Manchester .....	92.8	95.2	93.4	(1)	(1)	(1)	4.4	4.6	4.7
Nashua .....	87.0	91.2	90.6	(1)	(1)	(1)	2.8	2.4	2.4
Portsmouth-Rochester .....	113.0	114.2	114.2	(1)	(1)	(1)	3.6	3.2	3.3
<b>New Jersey</b> .....	3,669.8	3,755.4	3,729.3	2.0	2.1	2.1	131.4	131.7	133.7
Atlantic-Cape May .....	194.6	192.8	199.5	(1)	(1)	(1)	7.3	8.8	8.5
Bergen-Passaic .....	624.9	638.5	628.5	(1)	(1)	(1)	22.5	21.5	22.2
Camden .....	455.7	475.1	469.3	(1)	(1)	(1)	21.0	20.9	22.2
Jersey City .....	238.5	243.0	242.9	(1)	(1)	(1)	3.9	4.3	4.5
Middlesex-Somerset-Hunterdon ..	582.0	598.9	594.3	.5	.6	.5	20.1	19.7	19.6
Monmouth-Ocean .....	368.8	376.8	376.7	(1)	(1)	(1)	18.1	17.7	17.9
Newark .....	933.8	950.5	941.5	.7	.7	.7	31.3	30.9	31.2
Trenton .....	191.9	196.9	191.7	(1)	(1)	(1)	4.5	4.4	4.4
Vineland-Millville-Bridgeton ..	56.7	58.4	57.7	.3	.3	.3	2.0	1.9	2.1
<b>New Mexico</b> .....	693.8	710.0	705.1	15.6	15.3	15.4	43.9	43.0	43.2
Albuquerque .....	325.9	334.8	333.9	(1)	(1)	(1)	22.9	22.6	22.6
Las Cruces .....	48.4	50.3	49.5	(1)	(1)	(1)	3.4	3.3	3.4
Santa Fe .....	71.2	71.6	71.4	(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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Maryland</b> .....	175.0	174.3	173.1	106.8	108.9	108.1	538.2	544.8	547.2
Baltimore PMSA .....	101.3	100.6	100.6	57.1	58.0	57.1	265.7	269.5	267.8
Baltimore City .....	32.4	32.5	32.2	19.6	19.9	19.8	66.6	66.0	65.7
Suburban Maryland-D.C. ....	37.1	37.3	37.3	34.3	34.2	33.8	197.3	199.7	200.7
<b>Massachusetts</b> .....	439.9	450.4	443.5	125.2	133.4	128.2	706.5	717.6	716.3
Barnstable-Yarmouth .....	2.1	1.9	1.9	3.2	3.2	3.2	24.0	21.6	24.0
Boston .....	219.5	222.1	219.7	79.8	82.8	80.3	404.1	407.8	404.9
Brockton .....	10.7	10.5	10.0	4.8	5.1	4.8	30.7	31.4	31.5
Fitchburg-Leominster .....	13.3	13.7	13.5	1.8	2.0	1.9	12.1	12.2	12.1
Lawrence .....	37.2	38.1	37.9	4.6	5.1	4.7	34.6	36.1	35.4
Lowell .....	27.9	28.8	28.7	6.2	6.6	6.3	23.6	24.1	23.8
New Bedford .....	12.9	14.3	13.6	2.3	2.5	2.3	16.4	16.5	16.4
Pittsfield .....	7.6	7.5	7.4	1.2	1.2	1.2	10.5	10.5	10.4
Springfield .....	38.5	39.6	39.1	9.0	9.0	8.6	57.1	57.8	57.5
Worcester .....	40.9	42.8	42.2	8.9	9.1	9.0	48.0	49.1	48.1
<b>Michigan</b> .....	942.9	959.2	935.9	169.9	171.1	170.6	1,027.7	1,053.7	1,051.9
Ann Arbor .....	52.8	53.5	53.1	5.6	5.8	5.8	51.4	52.9	52.8
Benton Harbor .....	20.2	21.1	20.0	2.9	2.9	2.9	16.4	16.5	16.7
Detroit .....	436.9	440.7	429.0	93.9	94.7	93.9	488.0	506.4	505.9
Flint .....	41.8	41.0	40.1	5.1	5.2	5.2	45.4	47.6	47.3
Grand Rapids-Muskegon-Holland .....	150.7	157.6	155.8	19.0	19.3	19.5	133.5	139.8	139.4
Jackson .....	12.8	13.0	13.0	3.6	3.6	3.6	15.6	15.8	15.7
Kalamazoo-Battle Creek .....	49.9	49.9	49.2	6.9	7.0	7.1	46.0	46.8	46.8
Lansing-East Lansing .....	29.9	30.2	30.0	6.1	6.2	6.2	50.2	51.0	50.8
Saginaw-Bay City-Midland .....	38.5	39.7	39.3	7.1	7.4	7.2	45.1	46.2	46.2
<b>Minnesota</b> .....	434.3	439.6	440.6	118.3	123.4	121.9	593.6	607.9	603.7
Duluth-Superior .....	8.3	8.2	8.2	7.0	7.6	7.6	28.3	28.3	28.3
Minneapolis-St. Paul .....	275.9	278.5	279.4	85.2	86.8	85.8	382.1	389.6	390.0
Rochester .....	10.7	11.5	11.8	2.0	2.1	2.0	14.3	14.7	14.6
St. Cloud .....	15.8	15.8	15.8	2.9	2.9	2.9	25.1	25.7	25.5
<b>Mississippi</b> .....	244.7	243.4	240.8	53.0	52.1	52.4	234.6	232.1	231.9
Jackson .....	21.0	22.3	22.4	15.4	14.9	14.9	52.0	51.1	51.0
<b>Missouri</b> .....	409.2	412.1	404.2	159.2	163.4	159.8	614.3	619.9	616.0
Kansas City .....	107.1	107.3	107.6	69.0	70.2	69.5	219.0	224.4	225.3
St. Louis .....	194.2	196.1	190.2	79.5	82.5	81.5	306.5	313.1	313.6
Springfield .....	23.5	23.9	23.6	10.5	11.5	11.5	44.9	44.2	44.1
<b>Montana</b> .....	24.2	24.3	24.3	20.6	20.5	20.2	100.0	100.6	100.9
<b>Nebraska</b> .....	113.4	115.4	115.7	50.5	53.1	52.7	207.3	208.5	207.8
Lincoln .....	16.6	17.0	17.0	9.0	9.2	9.1	30.3	30.0	29.9
Omaha .....	39.8	39.5	39.3	26.1	27.4	27.1	92.1	92.2	92.4
<b>Nevada</b> .....	38.8	40.1	40.1	42.6	44.5	44.7	170.8	181.0	181.6
Las Vegas .....	21.4	22.5	22.5	30.1	31.5	31.7	120.5	129.2	129.5
Reno .....	13.0	13.3	13.4	10.8	11.1	11.2	39.6	40.7	40.9
<b>New Hampshire</b> .....	102.7	107.7	105.6	19.5	20.2	19.4	150.3	151.9	155.6
Manchester .....	13.2	13.4	13.3	5.6	5.8	5.8	22.7	23.6	23.2
Nashua .....	27.3	27.8	27.7	2.2	2.1	2.1	21.7	22.5	22.9
Portsmouth-Rochester .....	17.6	19.5	18.7	4.0	4.5	4.5	31.5	31.1	31.8
<b>New Jersey</b> .....	482.2	485.8	479.3	250.9	259.7	252.8	864.1	884.2	881.1
Atlantic-Cape May .....	6.2	6.4	6.4	7.2	7.6	7.5	46.0	44.1	47.7
Bergen-Passaic .....	105.3	105.0	103.5	33.5	34.0	33.3	171.2	174.8	172.8
Camden .....	55.2	55.6	54.9	21.9	22.6	20.2	122.8	128.8	128.7
Jersey City .....	28.9	29.2	28.8	28.6	28.6	28.0	56.3	57.1	56.5
Middlesex-Somerset-Hunterdon .....	93.4	93.8	92.3	46.2	47.3	46.4	134.0	138.1	136.7
Monmouth-Ocean .....	21.6	22.8	22.5	20.2	21.7	21.8	102.4	102.9	104.4
Newark .....	134.5	136.0	133.8	80.0	82.5	81.0	185.4	190.7	187.4
Trenton .....	20.3	19.8	19.5	7.1	7.8	7.3	31.4	31.8	31.2
Vineland-Millville-Bridgeton .....	12.6	13.2	13.6	2.8	3.2	2.8	11.2	11.4	11.3
<b>New Mexico</b> .....	45.5	46.6	46.5	30.4	30.5	30.2	165.9	169.8	169.2
Albuquerque .....	29.7	30.5	30.6	14.6	14.6	14.4	78.7	81.1	80.9
Las Cruces .....	2.5	2.7	2.7	1.6	1.6	1.6	10.7	10.8	10.7
Santa Fe .....	2.0	2.0	2.0	1.3	1.3	1.3	15.6	15.3	15.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>Maryland</b> .....	129.8	128.8	129.0	730.1	751.8	755.4	406.5	426.1	407.1
Baltimore PMSA .....	71.9	70.5	70.4	375.6	385.8	386.0	203.8	209.5	202.4
Baltimore City .....	33.8	33.1	33.1	152.7	154.6	155.5	86.4	87.3	85.7
Suburban Maryland-D.C. ....	48.9	48.4	48.4	279.2	282.9	284.5	180.9	171.0	161.5
<b>Massachusetts</b> .....	211.2	218.2	219.0	1,070.4	1,105.8	1,110.8	378.4	408.6	380.4
Barnstable-Yarmouth .....	3.6	3.8	4.0	21.5	20.1	21.3	7.6	8.2	7.7
Boston .....	157.0	161.0	161.9	727.9	753.6	756.8	211.0	224.2	212.3
Brockton .....	3.1	3.0	3.0	22.8	23.0	23.0	14.7	15.6	14.5
Fitchburg-Leominster .....	1.5	1.6	1.5	12.9	12.7	12.9	6.6	7.8	6.8
Lawrence .....	4.8	4.5	4.4	42.7	43.1	43.1	15.8	17.6	15.8
Lowell .....	3.7	3.8	3.7	28.9	29.4	29.3	12.5	14.1	12.5
New Bedford .....	2.0	2.0	2.0	16.0	16.1	16.2	9.3	10.1	9.5
Pittsfield .....	2.0	2.0	2.0	15.2	14.9	15.5	4.5	5.1	4.5
Springfield .....	12.6	12.0	12.0	75.9	76.7	76.5	41.3	45.3	41.2
Worcester .....	14.8	15.5	15.4	64.0	65.8	65.5	31.2	33.7	32.1
<b>Michigan</b> .....	204.9	205.6	206.8	1,166.3	1,214.6	1,203.7	579.8	629.6	576.6
Ann Arbor .....	9.9	10.1	10.1	62.4	64.3	64.2	63.2	65.0	61.2
Benton Harbor .....	2.7	2.6	2.7	18.2	18.4	18.4	7.7	8.4	7.7
Detroit .....	111.8	112.0	112.5	619.9	646.7	642.7	209.1	227.4	206.0
Flint .....	6.7	6.8	6.8	48.8	49.9	49.5	21.1	25.0	21.8
Grand Rapids-Muskegon-Holland .....	21.5	22.2	22.3	134.2	137.5	137.1	45.8	51.1	46.5
Jackson .....	1.9	1.8	1.8	14.2	14.7	14.5	9.3	9.8	9.3
Kalamazoo-Battle Creek .....	10.6	10.8	10.9	51.5	52.4	52.1	29.1	31.8	30.0
Lansing-East Lansing .....	13.3	13.4	13.5	54.7	56.4	55.8	59.1	60.8	58.7
Saginaw-Bay City-Midland .....	6.8	8.8	6.9	46.4	47.8	47.4	20.0	22.4	20.5
<b>Minnesota</b> .....	143.6	146.2	147.0	677.9	700.5	698.2	356.1	391.3	359.9
Duluth-Superior .....	3.4	3.4	3.5	31.5	31.6	32.4	22.3	23.7	22.7
Minneapolis-St. Paul .....	114.4	114.2	115.6	453.0	470.5	470.5	202.8	219.4	201.5
Rochester .....	2.4	2.4	2.4	32.5	32.8	33.2	6.3	7.2	6.4
St. Cloud .....	2.9	3.0	3.1	19.5	20.2	20.0	10.8	12.0	11.1
<b>Mississippi</b> .....	41.6	42.0	41.9	250.0	252.1	252.1	205.4	221.0	217.1
Jackson .....	15.4	15.9	16.1	57.4	57.4	57.1	42.4	45.8	46.1
<b>Missouri</b> .....	151.9	158.0	159.8	716.6	738.1	736.4	370.5	411.2	388.1
Kansas City .....	62.8	63.8	64.0	254.2	260.5	260.5	121.3	132.5	126.0
St. Louis .....	78.2	78.3	78.7	396.7	407.4	406.8	143.9	153.9	145.4
Springfield .....	6.6	6.7	6.8	44.5	45.5	45.4	18.6	19.4	16.7
<b>Montana</b> .....	16.2	16.9	17.0	105.1	107.1	107.5	69.2	76.1	69.9
<b>Nebraska</b> .....	53.5	55.3	55.4	220.8	229.7	229.9	142.9	153.0	145.1
Lincoln .....	9.2	9.9	9.9	35.8	37.0	36.5	33.6	34.9	35.1
Omaha .....	32.5	33.9	34.0	127.3	133.1	133.0	49.0	50.4	47.8
<b>Nevada</b> .....	38.0	39.4	39.6	367.1	386.8	388.0	96.0	105.8	101.2
Las Vegas .....	29.0	30.1	30.2	269.4	288.8	289.2	56.7	64.8	60.5
Reno .....	7.5	7.9	7.9	68.8	68.7	69.0	21.5	22.6	22.2
<b>New Hampshire</b> .....	28.9	28.8	28.9	168.8	168.2	171.1	70.7	80.3	72.7
Manchester .....	7.4	6.7	6.7	30.2	30.6	30.6	9.3	10.5	9.1
Nashua .....	3.1	3.4	3.4	23.1	24.7	25.1	6.8	8.3	7.0
Portsmouth-Rochester .....	5.9	5.9	5.6	30.5	29.7	30.7	19.9	20.3	19.6
<b>New Jersey</b> .....	234.8	237.8	239.6	1,147.0	1,178.9	1,187.3	557.4	575.2	553.4
Atlantic-Cape May .....	6.1	6.3	6.4	93.2	90.9	94.7	28.6	28.7	28.3
Bergen-Passaic .....	34.5	34.8	34.5	188.3	196.3	193.6	69.6	72.1	68.6
Camden .....	22.4	22.9	23.3	140.0	146.0	147.7	72.4	78.3	72.3
Jersey City .....	23.9	25.2	25.5	57.1	59.5	59.4	39.8	39.1	40.2
Middlesex-Somerset-Hunterdon .....	43.9	44.2	44.8	169.9	179.5	181.3	74.0	75.7	72.7
Monmouth-Ocean .....	18.0	18.8	18.8	124.9	126.8	129.1	63.6	66.1	62.2
Newark .....	70.5	70.2	70.2	290.2	294.2	295.3	141.2	145.3	141.9
Trenton .....	11.1	11.3	11.6	65.9	68.5	66.7	51.6	53.3	51.0
Vineland-Millville-Bridgeton .....	3.4	3.3	3.4	12.2	12.0	11.8	12.2	13.1	12.4
<b>New Mexico</b> .....	32.0	32.3	32.4	194.5	199.1	199.1	166.0	173.4	169.1
Albuquerque .....	17.4	17.4	17.6	101.9	104.8	105.5	60.7	63.8	62.3
Las Cruces .....	1.9	1.9	1.9	10.7	11.0	10.9	17.6	19.0	18.3
Santa Fe .....	3.3	3.3	3.3	21.6	22.4	22.3	23.9	23.8	23.7

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>New York</b> .....	7,921.5	8,091.6	8,016.2	5.0	5.2	5.2	275.2	275.9	281.7
Albany-Schenectady-Troy .....	421.5	431.5	424.1	.6	.6	.6	15.7	15.2	15.8
Binghamton .....	108.5	113.9	111.7	(1)	(1)	(1)	4.4	4.1	4.3
Buffalo-Niagara Falls .....	537.5	545.5	538.4	(1)	(1)	(1)	23.5	22.8	23.6
Dutchess County .....	105.0	107.8	105.9	(1)	(1)	(1)	4.4	4.7	4.8
Elmira .....	41.9	43.6	42.7	(1)	(1)	(1)	1.7	1.7	1.9
Glens Falls .....	52.5	52.5	53.1	(1)	(1)	(1)	2.2	2.1	2.1
Nassau-Suffolk .....	1,097.6	1,135.1	1,114.1	(1)	(1)	(1)	47.5	48.5	48.8
New York PMSA .....	3,854.3	3,922.9	3,898.4	(1)	(1)	(1)	119.1	119.6	120.5
New York City .....	3,351.7	3,410.4	3,390.8	.3	.3	.3	94.6	94.8	95.2
Newburgh .....	119.9	120.7	119.7	(1)	(1)	(1)	4.6	4.4	4.6
Rochester .....	525.2	538.9	529.2	.6	.4	.4	18.5	18.3	19.1
Rockland County .....	98.5	100.7	99.5	(1)	(1)	(1)	3.7	4.1	4.0
Syracuse .....	331.2	336.8	331.9	(1)	(1)	(1)	13.9	13.3	13.7
Utica-Rome .....	126.8	128.1	127.6	(1)	(1)	(1)	3.5	3.4	3.7
Westchester County .....	384.0	391.4	387.9	(1)	(1)	(1)	18.9	18.7	19.1
<b>North Carolina</b> .....	3,505.1	3,657.3	3,591.2	3.8	4.0	4.0	195.6	201.8	203.4
Asheville .....	102.0	105.8	103.8	(1)	(1)	(1)	6.1	5.9	6.0
Charlotte-Gastonia-Rock Hill .....	721.7	741.1	729.7	(1)	(1)	(1)	44.5	45.2	45.2
Greensboro--Winston-Salem--High Point .....	602.3	618.0	606.3	(1)	(1)	(1)	29.9	30.5	30.5
Raleigh-Durham-Chapel Hill .....	566.2	589.1	581.4	(1)	(1)	(1)	31.5	33.8	33.9
<b>North Dakota</b> .....	309.7	320.8	317.1	4.3	4.5	4.5	18.5	19.5	20.0
Bismarck .....	47.3	49.6	48.8	(1)	(1)	(1)	2.9	3.0	2.9
Fargo-Moorhead .....	90.2	94.4	94.7	(1)	(1)	(1)	6.5	7.0	7.3
Grand Forks .....	47.7	49.3	48.6	(1)	(1)	(1)	2.8	3.2	3.4
<b>Ohio</b> .....	5,292.3	5,409.3	5,338.3	14.1	13.8	13.9	231.7	232.7	236.8
Akron .....	316.0	320.2	317.6	.4	.4	.4	13.9	14.1	14.4
Canton-Massillon .....	178.1	181.5	181.4	.7	.7	.7	9.1	9.0	9.4
Cincinnati .....	826.6	839.7	835.6	.7	.7	.7	38.9	41.9	42.6
Cleveland-Lorain-Elyria .....	1,124.0	1,149.4	1,138.4	.9	.9	.9	45.7	46.7	48.0
Columbus .....	800.6	815.4	810.4	.7	.6	.6	35.1	34.7	35.7
Dayton-Springfield .....	463.1	471.9	465.5	.5	.4	.4	18.4	18.1	18.5
Hamilton-Middletown .....	109.5	112.2	109.9	(1)	(1)	(1)	6.8	6.8	7.2
Lima .....	76.4	78.7	78.0	(1)	(1)	(1)	3.9	4.0	4.2
Mansfield .....	80.1	81.8	81.6	(1)	(1)	(1)	2.8	2.7	2.7
Steubenville-Weirton .....	51.5	48.0	47.1	.4	.4	.4	1.9	1.7	1.6
Toledo .....	310.7	313.8	303.9	.2	.2	.2	16.2	15.4	15.7
Youngstown-Warren .....	240.7	245.4	243.2	.6	.5	.5	10.9	10.5	10.6
<b>Oklahoma</b> .....	1,344.3	1,393.7	1,384.6	32.2	31.6	31.6	51.1	52.7	52.9
Enid .....	23.3	23.9	23.8	1.0	1.0	1.0	1.0	1.1	1.1
Lawton .....	37.0	38.9	37.8	.1	.1	.1	1.4	1.6	1.6
Oklahoma City .....	483.9	502.3	495.3	7.1	7.1	7.1	19.1	19.4	19.8
Tulsa .....	362.2	377.9	376.7	7.9	7.7	7.9	14.6	15.1	15.0
<b>Oregon</b> .....	1,472.7	1,539.1	1,527.1	2.0	1.9	2.0	82.7	86.6	89.3
Eugene-Springfield .....	130.6	139.2	135.1	.2	.2	.2	7.0	6.8	7.1
Medford-Ashland .....	64.5	67.5	66.0	.1	.1	.1	3.1	3.0	2.9
Portland-Vancouver .....	875.2	916.3	913.2	1.1	1.2	1.2	52.0	54.9	56.7
Salem .....	127.5	132.8	131.4	.3	.3	.3	7.1	7.0	7.3
<b>Pennsylvania</b> .....	5,298.4	5,452.3	5,403.6	20.0	20.3	20.5	219.9	227.6	231.3
Allentown Bethlehem-Easton .....	257.7	263.5	259.9	(1)	(1)	(1)	11.2	10.4	10.8
Altoona .....	57.2	57.6	57.3	(1)	(1)	(1)	2.9	2.7	2.7
Erie .....	126.3	129.4	129.0	(1)	(1)	(1)	5.0	5.0	5.0
Harrisburg-Lebanon-Carlisle .....	345.8	353.0	349.3	(1)	(1)	(1)	14.6	13.1	13.6
Johnstown .....	87.0	88.3	87.3	(1)	(1)	(1)	4.7	4.8	4.8
Lancaster .....	206.1	211.1	209.6	.4	.4	.4	12.2	12.4	12.3
Philadelphia PMSA .....	2,215.6	2,252.6	2,231.6	(1)	(1)	(1)	84.4	83.5	85.1
Philadelphia City .....	670.4	673.1	672.5	(1)	(1)	(1)	10.5	10.4	10.5
Pittsburgh .....	1,059.7	1,072.8	1,063.0	4.2	4.3	4.3	51.3	49.1	49.5
Reading .....	159.2	165.1	162.3	(1)	(1)	(1)	7.4	7.3	7.6
Scranton--Wilkes-Barre--Hazleton .....	270.7	274.8	271.3	.5	.5	.5	11.1	10.8	11.0
Sharon .....	46.4	47.6	47.2	(1)	(1)	(1)	1.7	1.8	1.8
State College .....	63.3	63.9	63.7	(1)	(1)	(1)	2.9	2.5	2.5
Williamsport .....	52.5	54.6	54.2	(1)	(1)	(1)	2.4	2.4	2.5
York .....	160.0	163.4	161.0	.5	.4	.4	8.5	8.5	8.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>New York</b> .....	923.2	924.9	917.8	397.9	412.8	402.1	1,626.5	1,656.6	1,644.5
Albany-Schenectady-Troy .....	39.4	39.4	39.1	15.7	17.3	16.9	91.7	94.7	93.7
Binghamton .....	24.6	25.5	25.3	4.6	4.8	4.7	22.9	23.5	23.4
Buffalo-Niagara Falls .....	89.3	89.0	88.8	25.3	26.5	25.0	129.3	131.3	130.2
Dutchess County .....	17.3	17.7	17.6	4.0	3.9	3.9	20.5	20.9	20.6
Elmira .....	9.3	9.4	9.3	1.5	1.5	1.5	10.7	11.2	11.0
Glens Falls .....	8.4	8.1	8.1	1.6	1.5	1.6	12.6	12.1	12.4
Nassau-Suffolk .....	109.7	110.2	109.8	47.5	49.8	47.8	288.2	293.7	291.4
New York PMSA .....	319.2	317.9	313.9	228.7	233.2	227.7	669.5	685.7	677.7
New York City .....	265.7	264.8	260.8	203.6	206.8	203.0	558.1	571.4	565.2
Newburgh .....	12.4	11.6	11.6	6.4	6.6	6.3	33.2	33.6	33.6
Rochester .....	128.7	127.4	126.9	17.2	18.1	17.3	110.8	115.2	113.8
Rockland County .....	11.9	11.7	11.9	5.5	6.1	5.7	22.5	23.0	22.7
Syracuse .....	50.3	50.0	49.9	18.1	18.4	18.2	79.1	80.4	79.8
Utica-Rome .....	19.9	18.8	18.7	3.8	4.1	4.0	27.7	27.9	27.6
Westchester County .....	39.8	39.7	39.5	18.9	19.6	18.4	84.8	86.8	85.4
<b>North Carolina</b> .....	842.6	843.2	840.1	167.6	174.0	173.6	817.3	820.9	817.8
Asheville .....	19.9	19.8	19.7	4.9	4.9	5.0	25.3	25.4	25.6
Charlotte-Gastonia-Rock Hill .....	147.2	146.1	145.7	52.4	51.5	51.4	175.7	177.4	177.3
Greensboro-Winston-Salem-High Point .....	165.1	165.5	165.2	33.1	32.6	32.5	142.7	140.9	141.2
Raleigh-Durham-Chapel Hill .....	81.8	82.6	82.5	25.5	26.2	26.3	121.0	122.7	122.8
<b>North Dakota</b> .....	21.2	23.0	23.0	18.2	18.4	18.2	80.7	82.1	81.5
Bismarck .....	2.7	2.8	2.8	3.2	3.2	3.2	11.9	12.1	12.2
Fargo-Moorhead .....	7.4	8.1	8.1	5.4	5.4	5.4	26.4	26.9	26.7
Grand Forks .....	3.2	3.6	3.6	2.2	2.1	2.1	13.4	13.5	13.3
<b>Ohio</b> .....	1,091.6	1,088.6	1,070.9	233.3	235.0	235.0	1,305.1	1,331.8	1,326.2
Akron .....	64.6	63.9	61.7	14.9	14.7	14.7	79.5	80.8	80.8
Canton-Massillon .....	45.4	46.3	46.1	5.5	5.5	5.5	44.4	44.6	44.7
Cincinnati .....	140.9	142.4	141.3	43.0	44.0	43.9	216.4	217.0	217.8
Cleveland-Lorain-Elyria .....	225.8	224.4	222.7	45.6	45.4	45.3	268.5	273.9	273.7
Columbus .....	91.3	91.5	91.0	36.0	36.4	36.4	216.5	216.6	216.2
Dayton-Springfield .....	99.2	99.7	99.1	19.2	19.0	19.0	109.2	109.6	108.9
Hamilton-Middletown .....	21.2	21.1	20.9	4.5	4.7	4.7	30.8	30.7	30.5
Lima .....	19.7	19.8	19.4	2.9	2.9	2.9	18.6	19.1	19.1
Mansfield .....	22.3	23.2	22.9	4.2	4.2	4.2	18.5	18.3	18.4
Steubenville-Weirton .....	14.5	11.0	11.0	2.9	2.7	2.7	11.4	10.9	10.8
Toledo .....	60.7	61.6	56.0	14.6	13.8	13.7	78.3	78.4	78.5
Youngstown-Warren .....	58.0	58.8	59.0	9.9	10.3	10.0	62.5	63.0	62.9
<b>Oklahoma</b> .....	175.0	178.7	178.5	77.1	79.3	79.9	318.4	327.1	326.1
Enid .....	1.9	2.0	2.0	2.1	2.1	2.1	5.9	6.1	6.1
Lawton .....	3.7	3.8	3.8	1.9	1.8	1.9	8.9	9.0	9.0
Oklahoma City .....	52.0	52.6	52.6	24.0	24.3	24.6	117.5	120.1	119.8
Tulsa .....	55.8	58.2	58.1	27.5	29.5	30.0	86.2	89.3	89.3
<b>Oregon</b> .....	240.1	247.1	251.8	72.9	73.6	73.0	369.2	377.0	380.1
Eugene-Springfield .....	19.8	21.4	21.6	4.6	4.6	4.5	34.2	35.5	35.7
Medford-Ashland .....	9.2	9.3	9.4	3.2	3.2	3.3	18.9	19.4	19.5
Portland-Vancouver .....	143.2	148.3	150.0	50.1	51.6	51.6	220.3	229.7	231.2
Salem .....	18.6	17.9	19.5	3.4	3.4	3.4	27.7	28.1	28.1
<b>Pennsylvania</b> .....	928.9	939.6	929.6	265.8	273.9	266.0	1,208.3	1,240.4	1,234.6
Allentown Bethlehem-Easton .....	56.5	57.1	56.2	13.9	15.0	14.4	53.9	54.5	54.3
Altoona .....	10.1	10.0	10.0	4.3	4.2	4.3	15.3	15.1	15.3
Erie .....	33.6	33.8	34.1	4.6	4.7	4.8	29.1	29.4	29.5
Harrisburg-Lebanon-Carlisle .....	45.9	45.9	45.8	22.9	24.3	23.9	77.0	79.4	79.0
Johnstown .....	12.8	13.0	13.0	4.7	4.9	4.7	20.9	21.0	21.1
Lancaster .....	56.2	57.0	56.3	7.9	7.8	7.9	52.0	53.4	53.6
Philadelphia PMSA .....	306.8	309.6	307.1	102.9	106.5	104.3	490.2	499.6	491.1
Philadelphia City .....	59.8	61.0	59.9	32.0	33.2	32.6	113.9	114.9	113.7
Pittsburgh .....	134.5	134.4	134.8	64.6	66.1	64.2	258.8	257.6	257.2
Reading .....	43.2	44.2	43.1	7.1	7.5	7.3	37.2	38.5	38.4
Scranton-Wilkes-Barre-Hazleton .....	54.6	54.3	53.0	14.4	14.9	14.3	65.5	65.6	65.1
Sharon .....	11.0	10.9	11.0	2.1	2.2	2.1	12.3	12.8	12.7
State College .....	8.7	8.8	8.7	2.0	2.1	2.1	12.3	12.2	12.5
Williamsport .....	12.7	13.5	13.4	1.8	2.0	1.9	12.7	12.9	12.9
York .....	48.4	49.4	49.1	6.2	6.9	6.2	39.7	39.9	39.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>New York</b> .....	729.8	732.1	732.7	2,616.9	2,694.0	2,685.7	1,347.0	1,390.0	1,346.5
Albany-Schenectady-Troy .....	28.1	26.2	26.2	128.5	129.5	128.4	103.9	108.8	103.3
Binghamton .....	3.9	4.0	4.1	29.4	30.2	30.4	18.7	21.7	19.5
Buffalo-Niagara Falls .....	28.4	28.9	29.0	158.6	159.5	158.0	83.1	87.5	83.8
Dutchess County .....	4.4	4.4	4.4	33.4	32.9	33.3	21.0	23.3	21.1
Elmira .....	1.4	1.4	1.4	10.6	10.7	10.5	6.8	7.8	7.1
Glens Falls .....	2.3	2.5	2.5	16.6	16.1	17.2	8.7	10.1	9.1
Nassau-Suffolk .....	79.6	79.5	79.7	358.4	366.9	366.7	166.8	186.4	170.0
New York PMSA .....	508.8	510.9	512.3	1,392.0	1,448.0	1,434.8	617.0	607.5	611.5
New York City .....	476.5	478.2	479.5	1,215.8	1,269.8	1,254.1	537.2	524.3	532.5
Newburgh .....	5.6	5.4	5.6	32.6	31.7	32.5	25.2	27.5	25.4
Rochester .....	23.9	23.8	24.0	154.9	156.5	156.6	70.6	79.2	71.1
Rockland County .....	5.1	5.1	5.1	31.0	30.5	31.5	18.9	20.1	18.6
Syracuse .....	18.4	18.1	18.2	95.1	95.6	94.8	56.3	61.0	57.3
Utica-Rome .....	7.8	7.8	7.8	37.5	38.1	38.9	26.5	27.9	26.9
Westchester County .....	26.1	26.4	26.5	138.6	141.3	142.6	57.0	58.8	56.4
<b>North Carolina</b> .....	155.9	162.1	161.4	825.3	865.3	867.8	497.0	586.0	523.1
Asheville .....	3.1	3.2	3.2	29.6	31.5	31.3	13.1	15.1	13.0
Charlotte-Gastonia-Rock Hill .....	48.3	50.0	49.6	178.1	181.6	181.4	75.5	89.3	79.1
Greensboro--Winston-Salem--High Point .....	31.0	32.2	32.2	145.9	148.4	147.9	54.6	67.9	56.8
Raleigh-Durham-Chapel Hill .....	27.4	28.0	28.0	172.6	174.4	175.1	106.4	121.6	112.8
<b>North Dakota</b> .....	14.8	15.2	15.3	85.7	88.5	88.6	66.5	69.6	66.0
Bismarck .....	2.3	2.4	2.5	15.2	15.7	15.7	9.1	10.4	9.5
Fargo-Moorhead .....	5.8	6.2	6.3	27.0	28.1	28.2	11.7	12.7	12.7
Grand Forks .....	1.6	1.5	1.5	13.9	14.4	14.6	10.6	11.0	10.1
<b>Ohio</b> .....	280.7	284.0	284.3	1,434.1	1,463.0	1,458.9	701.7	760.4	712.3
Akron .....	12.8	12.7	12.7	69.2	90.6	90.7	40.7	43.0	42.2
Canton-Massillon .....	5.8	5.9	5.9	48.9	49.8	50.1	18.3	19.7	19.0
Cincinnati .....	52.7	53.2	53.2	237.4	239.5	239.5	96.6	101.0	96.6
Cleveland-Lorain-Elyria .....	73.3	74.3	74.7	327.9	336.2	335.3	136.3	147.6	137.6
Columbus .....	66.7	69.0	69.1	223.0	229.4	230.6	129.3	137.2	130.8
Dayton-Springfield .....	17.9	17.9	17.9	131.5	134.7	134.7	67.2	72.5	67.0
Hamilton-Middletown .....	4.4	4.3	4.3	25.9	25.9	25.7	15.9	18.7	16.8
Lima .....	2.1	2.2	2.2	19.4	20.2	20.1	9.8	10.5	10.1
Mansfield .....	3.0	2.7	2.8	19.3	20.1	20.2	10.0	10.8	10.4
Staubenville-Weirton .....	1.4	1.4	1.5	13.0	13.4	13.0	8.0	8.5	8.1
Toledo .....	11.1	11.1	11.1	89.5	88.0	87.7	40.1	45.3	41.0
Youngstown-Warren .....	9.4	9.3	9.4	62.3	61.7	61.8	27.1	31.3	29.0
<b>Oklahoma</b> .....	68.0	69.9	69.9	365.7	384.2	385.3	256.8	270.2	260.4
Enid .....	1.0	1.0	1.0	6.4	6.5	6.5	4.0	4.1	4.0
Lawton .....	1.8	1.6	1.8	8.3	8.7	8.4	10.9	12.1	11.2
Oklahoma City .....	27.8	28.6	28.8	143.0	148.7	148.3	93.4	101.5	94.5
Tulsa .....	20.1	20.5	20.6	110.3	115.1	115.4	39.8	42.5	40.4
<b>Oregon</b> .....	91.4	94.9	95.8	387.5	400.6	404.8	228.9	257.4	230.3
Eugene-Springfield .....	7.0	7.1	7.1	35.3	37.1	37.0	22.5	26.5	21.9
Medford-Ashland .....	3.1	3.1	3.1	17.8	18.5	18.4	9.1	10.9	9.3
Portland-Vancouver .....	64.0	66.7	67.0	238.7	247.5	249.6	105.8	116.4	105.9
Salem .....	6.5	6.6	6.5	30.0	31.7	31.8	33.9	37.8	34.5
<b>Pennsylvania</b> .....	313.7	315.9	316.0	1,658.4	1,714.5	1,712.0	661.4	720.1	691.6
Allentown Bethlehem-Easton .....	13.6	13.4	13.4	80.6	82.1	82.1	26.0	31.0	28.7
Alltoona .....	2.0	2.0	2.0	15.2	15.7	15.6	7.4	7.9	7.4
Erie .....	5.8	5.5	5.6	35.3	36.3	36.4	13.1	14.7	13.6
Harrisburg-Lebanon-Carlisle .....	25.6	25.0	25.1	91.2	93.7	94.1	88.6	71.6	87.8
Johnstown .....	4.6	4.7	4.7	26.3	26.2	26.1	13.0	13.7	12.9
Lancaster .....	9.1	9.2	9.2	52.0	53.0	53.3	18.3	17.9	16.6
Philadelphia PMSA .....	156.6	157.5	157.8	780.1	796.4	795.4	294.6	299.5	290.8
Philadelphia City .....	54.3	53.8	53.7	272.5	276.6	275.7	127.4	123.2	126.4
Pittsburgh .....	62.7	62.3	62.3	368.4	374.4	374.1	115.2	124.6	116.6
Reading .....	9.0	9.2	9.2	39.0	40.3	40.2	16.3	18.1	16.5
Scranton--Wilkes-Barre--Hazleton .....	13.8	14.3	14.3	77.5	80.1	80.2	33.3	34.3	32.9
Sharon .....	1.4	1.4	1.4	12.8	13.0	13.0	5.1	5.5	5.2
State College .....	2.1	2.2	2.3	14.0	14.2	14.3	21.3	21.9	21.3
Williamsport .....	2.3	2.3	2.3	14.0	14.4	14.4	6.6	7.1	6.8
York .....	5.1	5.0	5.1	36.7	37.1	37.0	14.9	16.2	14.9

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Rhode Island</b> .....	436.3	449.5	439.8	.2	.2	.2	15.8	15.5	18.0
Providence-Fall River-Warwick .....	485.0	499.2	483.7	.2	.2	.2	17.1	16.3	17.3
<b>South Carolina</b> .....	1,671.5	1,722.3	1,699.4	1.8	1.8	1.8	96.1	99.7	99.9
Charleston-North Charleston .....	212.1	218.8	215.9	(1)	(1)	(1)	14.1	14.4	14.4
Columbia .....	270.2	279.8	277.4	(1)	(1)	(1)	14.6	15.4	15.6
Greenville-Spartanburg-Anderson .....	444.4	461.5	453.5	(1)	(1)	(1)	29.2	29.7	30.0
<b>South Dakota</b> .....	352.8	361.2	357.5	2.4	2.6	2.6	16.9	16.7	17.2
Rapid City .....	47.5	49.4	49.2	(1)	(1)	(1)	3.2	3.4	3.5
Sioux Falls .....	99.2	103.5	102.6	(1)	(1)	(1)	5.3	5.1	5.2
<b>Tennessee</b> .....	2,512.6	2,562.6	2,540.8	4.7	4.7	4.7	117.0	121.6	122.7
Chattanooga .....	214.0	213.9	213.4	(1)	(1)	(1)	9.5	9.6	9.6
Johnson City-Kingsport-Bristol .....	192.2	193.1	192.7	(1)	(1)	(1)	10.6	10.0	9.9
Knoxville .....	316.9	316.7	313.6	.5	.5	.5	20.2	18.6	18.7
Memphis .....	539.8	549.6	545.7	(1)	(1)	(1)	24.0	24.0	24.2
Nashville .....	603.3	613.3	608.2	(1)	(1)	(1)	30.8	30.7	31.1
<b>Texas</b> .....	8,241.1	8,467.6	8,449.5	157.4	162.8	164.0	443.9	462.9	463.5
Abilene .....	53.1	54.0	53.9	1.5	1.4	1.4	2.2	2.2	2.3
Amarillo .....	91.7	94.6	94.8	.7	.6	.6	4.5	4.7	4.8
Austin-San Marcos .....	531.1	542.7	536.3	1.1	1.2	1.2	28.7	27.3	27.6
Beaumont-Port Arthur .....	149.1	152.2	151.5	.7	.7	.7	12.1	13.0	13.2
Brazoria .....	71.7	72.5	72.3	1.4	1.4	1.4	8.8	7.8	7.9
Brownsville-Harlingen-San Benito .....	93.2	95.7	95.3	(1)	(1)	(1)	2.9	3.4	3.3
Bryan-College Station .....	62.4	62.7	64.0	.8	.7	.7	2.8	3.0	3.1
Corpus Christi .....	150.4	156.5	155.3	2.5	2.4	2.4	12.8	13.8	13.9
Dallas .....	1,661.5	1,734.6	1,729.2	11.7	12.3	12.4	75.8	81.7	81.8
El Paso .....	234.4	239.3	233.4	(1)	(1)	(1)	10.8	11.9	11.8
Ft. Worth-Arlington .....	679.3	705.4	702.8	4.5	4.6	4.5	34.0	36.3	36.4
Galveston-Texas City .....	87.4	89.3	88.8	.9	.8	.8	5.1	4.5	4.5
Houston .....	1,806.5	1,854.3	1,849.0	65.5	66.4	66.9	127.8	132.7	132.7
Killeen Temple .....	94.1	96.1	95.8	(1)	(1)	(1)	3.9	4.3	4.4
Laredo .....	55.7	59.0	59.3	2.9	3.4	3.4	2.3	2.1	2.1
Longview-Marshall .....	83.9	85.8	85.5	3.1	3.2	3.2	4.0	3.9	3.9
Lubbock .....	108.0	111.3	111.3	.1	.1	.1	4.1	4.4	4.3
McAllen-Edinburg-Mission .....	122.6	129.9	128.1	1.0	1.0	1.0	6.5	6.8	6.9
Odessa Midland .....	96.4	98.0	97.7	11.8	12.1	12.2	5.7	5.7	5.6
San Angelo .....	41.8	42.2	41.8	.6	.7	.7	1.8	1.8	2.0
San Antonio .....	632.4	650.6	647.9	1.8	1.9	1.9	32.9	34.0	34.6
Sherman-Denison .....	41.4	42.3	42.0	(1)	(1)	(1)	1.9	2.1	2.1
Texarkana .....	50.2	50.1	49.7	(1)	(1)	(1)	2.4	2.2	2.3
Tyler .....	73.5	76.0	75.9	1.5	1.6	1.6	2.8	2.8	2.8
Victoria .....	33.2	34.1	34.1	1.5	1.4	1.5	2.0	2.2	2.1
Waco .....	91.6	94.4	94.1	(1)	(1)	(1)	4.2	4.5	4.6
Wichita Falls .....	57.4	58.6	57.7	1.2	1.2	1.2	2.3	2.3	2.3
<b>Utah</b> .....	951.4	1,000.6	990.2	8.0	7.9	8.0	63.6	67.5	68.7
Provo-Orem .....	126.5	133.6	133.3	(1)	(1)	(1)	9.5	10.0	10.2
Salt Lake City-Ogden .....	642.7	674.7	669.3	3.0	3.0	3.0	41.6	44.2	45.4
<b>Vermont</b> .....	269.4	278.2	274.0	.6	.7	.7	14.2	12.8	13.4
Barre-Montpelier .....	29.5	30.1	29.1	(1)	(1)	(1)	1.6	1.4	1.6
Burlington .....	95.1	99.1	96.8	(1)	(1)	(1)	5.1	4.7	4.9
<b>Virginia</b> .....	3,129.3	3,230.5	3,208.7	10.6	11.1	11.0	183.1	187.2	188.9
Bristol .....	36.4	37.4	36.5	(1)	(1)	(1)	1.6	1.6	1.6
Charlottesville .....	77.2	81.2	80.7	(1)	(1)	(1)	4.4	4.7	4.7
Danville .....	43.5	45.8	44.1	(1)	(1)	(1)	2.4	2.6	2.7
Lynchburg .....	95.2	98.0	97.4	(1)	(1)	(1)	5.7	6.2	6.3
Norfolk-Virginia Beach-Newport News .....	650.4	667.6	661.2	(1)	(1)	(1)	41.6	42.7	42.8
Northern Virginia .....	962.1	1,004.1	1,002.2	.6	.7	.7	54.6	57.4	58.5
Richmond-Petersburg .....	504.3	518.6	513.8	.8	.7	.8	32.2	32.9	33.3
Roanoke .....	140.0	143.9	141.9	(1)	(1)	(1)	8.3	8.5	8.7
<b>Washington</b> .....	2,415.8	2,525.9	2,505.7	3.5	3.8	3.6	134.3	136.3	139.8
Seattle-Bellevue-Everett .....	1,225.4	1,301.8	1,298.4	.7	.8	.8	62.5	64.1	65.4
Spokane .....	180.2	184.5	180.6	(1)	(1)	(1)	11.9	10.4	11.0
Tacoma .....	220.6	231.4	229.9	.2	.2	.2	12.9	13.0	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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Rhode Island</b> .....	75.6	81.3	75.5	14.9	15.3	14.9	101.3	101.3	101.8
Providence-Fall River-Warwick .....	96.2	103.0	94.9	17.2	17.6	17.3	115.5	115.1	113.4
<b>South Carolina</b> .....	363.2	360.9	357.4	74.6	75.1	75.2	402.1	414.6	412.7
Charleston-North Charleston .....	20.6	20.8	20.6	11.1	11.1	11.0	55.3	56.3	56.0
Columbia .....	25.5	25.2	25.1	12.5	12.6	12.7	62.9	65.9	65.9
Greenville-Spartanburg-Anderson .....	125.0	124.3	123.9	19.7	20.2	20.2	112.4	117.0	116.7
<b>South Dakota</b> .....	48.1	50.4	50.5	16.3	15.9	15.9	89.7	89.9	89.7
Rapid City .....	4.1	4.5	4.6	1.9	2.1	2.1	14.9	15.3	15.5
Sioux Falls .....	13.4	13.8	13.8	6.3	6.4	6.3	25.7	25.8	25.9
<b>Tennessee</b> .....	514.9	517.4	510.8	143.3	142.1	142.0	594.2	606.0	606.0
Chattanooga .....	42.3	43.7	43.2	8.3	8.4	8.4	52.1	51.1	51.2
Johnson City-Kingsport-Bristol .....	53.1	52.6	52.7	7.8	7.8	7.8	43.7	43.7	43.5
Knoxville .....	47.6	48.1	47.3	14.2	14.1	14.0	82.0	82.5	82.2
Memphis .....	62.8	62.9	63.1	80.7	80.7	61.0	139.7	143.9	143.6
Nashville .....	96.8	95.0	93.8	31.3	31.8	31.6	146.9	149.9	149.7
<b>Texas</b> .....	1,057.8	1,072.1	1,071.1	489.5	497.8	500.4	1,994.5	2,041.2	2,043.2
Abilene .....	3.1	3.3	3.3	2.7	2.5	2.5	14.4	14.5	14.5
Amarillo .....	9.6	9.6	9.7	5.7	5.5	5.6	26.0	27.3	27.5
Austin-San Marcos .....	73.4	72.3	72.7	17.8	18.1	18.1	115.2	118.0	117.4
Beaumont-Port Arthur .....	24.2	24.7	24.7	8.2	8.0	8.0	35.5	35.6	35.6
Brazoria .....	16.6	16.7	16.8	2.8	3.0	3.0	14.1	14.4	14.4
Brownsville-Harlingen-San Benito .....	12.7	12.0	12.1	4.2	4.1	4.1	23.7	24.1	24.3
Bryan-College Station .....	3.6	3.7	3.7	1.3	1.3	1.4	14.1	14.3	14.3
Corpus Christi .....	13.6	13.5	13.7	6.5	6.3	6.3	35.5	36.1	36.0
Dallas .....	237.1	241.8	241.6	111.5	120.2	121.3	415.9	432.4	432.0
El Paso .....	44.1	43.7	43.6	13.0	12.9	12.9	56.4	57.1	57.1
Ft. Worth-Arlington .....	107.3	109.1	109.2	61.2	63.6	64.5	173.4	178.9	179.7
Gaiveston-Texas City .....	8.0	8.1	8.1	4.1	4.1	4.1	18.8	19.3	19.3
Houston .....	199.0	203.0	203.7	126.9	126.9	128.3	421.8	431.3	432.0
Killeen Temple .....	10.1	9.1	9.1	3.5	3.4	3.5	22.7	22.8	22.8
Laredo .....	1.4	1.5	1.5	8.7	9.5	9.8	15.1	16.2	16.5
Longview-Marshall .....	18.1	18.4	18.5	3.9	3.8	3.9	21.5	21.7	21.7
Lubbock .....	7.4	7.6	7.6	5.6	5.5	5.6	31.4	32.1	32.5
McAllen-Edinburg-Mission .....	12.8	12.7	12.5	4.4	4.6	4.5	34.0	35.2	34.8
Odessa Midland .....	6.8	7.0	7.0	4.0	4.1	4.0	26.5	26.2	26.2
San Angelo .....	5.3	5.5	5.0	2.1	2.1	2.1	10.4	10.0	9.8
San Antonio .....	49.7	50.0	49.9	30.6	31.8	32.0	157.6	161.4	161.6
Sherman-Denison .....	10.6	10.4	10.4	1.6	1.5	1.6	9.5	9.3	9.2
Texarkana .....	6.2	6.0	6.1	2.2	2.1	2.1	13.1	12.9	12.9
Tyler .....	11.3	11.3	11.3	3.4	3.6	3.7	18.8	19.1	19.1
Victoria .....	2.9	3.2	3.3	1.5	1.4	1.5	9.3	9.4	9.4
Waco .....	16.5	16.4	16.2	3.8	3.5	3.6	21.1	21.5	21.6
Wichita Falls .....	7.8	8.1	7.8	2.8	2.8	2.8	13.6	13.8	13.7
<b>Utah</b> .....	129.6	131.5	131.2	54.6	56.3	56.7	232.7	240.7	241.8
Provo-Orem .....	18.7	19.8	19.8	2.4	2.4	2.4	29.4	30.7	30.8
Salt Lake City-Ogden .....	81.5	82.9	82.8	42.6	43.5	43.4	158.4	163.5	164.6
<b>Vermont</b> .....	45.8	46.8	46.5	12.0	12.7	12.4	65.6	67.0	67.5
Barre-Montpelier .....	3.5	3.3	3.2	1.0	1.1	1.0	6.8	6.8	7.0
Burlington .....	17.9	18.3	18.4	4.7	4.9	4.9	22.2	22.1	22.2
<b>Virginia</b> .....	397.6	397.8	395.7	161.9	167.1	169.3	716.9	733.8	735.5
Bristol .....	10.0	10.2	10.1	1.3	1.2	1.2	9.9	9.8	9.8
Charlottesville .....	8.3	8.3	8.3	2.3	2.4	2.3	15.8	16.3	16.3
Danville .....	15.4	15.4	14.9	1.1	1.1	1.1	9.7	9.6	9.7
Lynchburg .....	25.8	25.3	25.2	3.7	3.7	3.7	20.9	21.8	21.5
Norfolk-Virginia Beach-Newport News .....	67.1	66.3	66.4	31.4	32.9	33.4	155.9	157.5	157.9
Northern Virginia .....	41.1	42.3	42.1	58.1	60.0	60.5	213.8	220.4	221.5
Richmond-Petersburg .....	59.5	59.6	59.1	26.4	26.7	26.7	119.9	122.2	121.9
Roanoke .....	20.0	19.2	18.3	8.6	8.5	8.5	37.4	38.9	39.0
<b>Washington</b> .....	345.7	368.5	372.0	124.3	126.4	126.7	598.8	610.4	611.4
Seattle-Bellevue-Everett .....	195.4	218.6	221.8	74.7	77.5	77.9	297.2	307.5	310.3
Spokane .....	22.4	22.2	22.4	8.1	8.3	8.4	46.1	46.2	46.0
Tacoma .....	24.7	27.4	27.6	10.3	10.4	10.8	55.0	56.7	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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Rhode Island</b> .....	25.6	26.0	25.9	146.5	148.0	147.7	56.6	61.9	57.8
Providence-Fall River-Warwick .....	27.5	28.0	27.9	153.6	154.4	153.3	57.7	64.6	59.4
<b>South Carolina</b> .....	73.6	75.2	75.3	380.0	393.4	391.4	280.1	301.6	285.7
Charleston-North Charleston .....	8.6	8.6	8.6	56.2	58.5	58.0	46.2	49.1	47.3
Columbia .....	19.9	20.0	20.1	66.8	70.6	70.5	68.0	70.1	67.5
Greenville-Spartanburg-Anderson .....	15.5	15.5	15.6	94.5	99.7	98.6	48.1	55.1	48.5
<b>South Dakota</b> .....	20.1	21.1	21.6	93.2	93.5	93.9	66.1	71.1	66.1
Rapid City .....	1.7	1.8	1.8	15.3	14.8	15.0	6.4	7.5	6.7
Sioux Falls .....	10.7	11.8	12.1	29.1	30.4	30.6	8.7	10.2	8.7
<b>Tennessee</b> .....	118.4	120.5	120.5	662.4	670.6	673.8	357.7	379.7	360.3
Chattanooga .....	14.3	14.8	14.8	54.3	53.5	54.0	33.2	32.8	32.2
Johnson City-Kingsport-Bristol .....	5.8	5.6	5.7	44.6	45.6	45.7	26.6	27.8	27.4
Knoxville .....	13.4	13.3	13.3	85.4	84.5	85.0	53.6	55.1	52.6
Memphis .....	28.6	29.6	29.0	152.9	152.9	153.0	71.1	75.6	71.8
Nashville .....	36.6	37.9	37.9	190.6	193.8	193.7	70.3	74.2	70.4
<b>Texas</b> .....	448.3	455.7	457.3	2,250.4	2,323.9	2,329.6	1,399.3	1,451.2	1,420.4
Abilene .....	2.0	2.2	2.2	17.8	18.1	18.1	9.4	9.8	9.6
Amarillo .....	4.7	4.7	4.7	25.6	26.5	26.5	14.9	15.7	15.4
Austin-San Marcos .....	29.3	29.6	29.6	150.7	153.6	154.5	114.9	122.6	115.2
Beaumont-Port Arthur .....	4.8	5.0	5.0	39.7	39.5	39.7	23.9	25.7	24.6
Brazoria .....	1.8	1.8	1.8	13.6	14.1	14.0	12.6	13.3	13.0
Brownsville-Harlingen-San Benito .....	3.7	3.7	3.7	25.7	26.6	26.9	20.3	21.8	20.9
Bryan-College Station .....	2.4	2.4	2.4	13.4	14.1	14.1	24.0	23.2	24.3
Corpus Christi .....	6.6	6.6	6.6	43.2	46.9	47.0	29.7	30.9	29.4
Dallas .....	131.3	132.9	133.4	495.6	521.8	521.8	182.6	191.5	184.9
El Paso .....	8.8	8.8	8.8	51.9	54.6	54.9	49.4	50.3	50.3
Ft. Worth-Arlington .....	30.8	32.5	32.7	184.7	189.3	189.4	83.4	91.1	86.4
Galveston-Texas City .....	5.4	5.5	5.5	17.8	18.1	18.2	27.3	28.9	28.3
Houston .....	96.5	97.7	97.8	536.0	549.9	550.6	233.2	246.4	237.0
Killeen Temple .....	3.9	4.1	4.1	24.8	25.9	26.1	25.2	26.5	25.8
Laredo .....	2.1	2.2	2.2	9.8	10.3	10.3	13.4	13.8	13.5
Longview-Marshall .....	3.1	3.1	3.1	19.7	20.2	20.3	10.5	11.5	10.9
Lubbock .....	5.3	5.5	5.5	31.4	32.6	32.6	22.7	23.5	23.1
McAllen-Edinburg-Mission .....	4.6	4.8	4.8	27.3	29.2	29.4	32.0	35.6	34.2
Odessa Midland .....	3.5	3.5	3.5	22.6	23.4	23.5	15.5	16.0	15.7
San Angelo .....	1.7	1.6	1.7	11.7	12.0	12.0	8.2	8.5	8.5
San Antonio .....	42.6	43.9	44.1	192.2	197.6	199.3	125.0	130.0	124.3
Sherman-Denison .....	2.0	2.1	2.1	10.7	11.3	11.3	5.1	5.6	5.3
Texarkana .....	1.7	1.7	1.7	13.4	13.7	13.7	11.2	11.5	10.9
Tyler .....	3.8	3.9	3.9	21.5	22.6	22.8	10.4	11.1	10.7
Victoria .....	1.7	1.7	1.6	8.6	8.9	9.0	5.7	5.9	5.7
Waco .....	5.6	5.8	5.8	26.2	27.7	27.8	14.2	15.0	14.5
Wichita Falls .....	2.2	2.2	2.2	15.6	15.9	15.9	11.9	12.3	11.8
<b>Utah</b> .....	50.5	52.1	52.1	257.2	272.2	274.0	155.2	172.4	157.7
Provo-Orem .....	3.6	3.9	4.0	48.5	49.9	50.8	14.4	16.9	15.3
Salt Lake City-Ogden .....	41.5	43.0	42.9	172.0	182.9	183.5	102.1	111.7	103.7
<b>Vermont</b> .....	12.3	12.7	12.8	81.4	80.5	83.2	37.5	45.0	37.5
Barre-Montpelier .....	2.6	2.6	2.7	7.9	7.8	7.8	6.1	7.1	5.8
Burlington .....	4.6	4.9	5.0	28.9	29.6	30.0	11.7	14.6	11.4
<b>Virginia</b> .....	163.7	168.4	168.3	921.8	963.2	963.3	573.7	601.9	576.7
Bristol .....	1.2	1.2	1.2	7.4	7.7	7.6	5.0	5.7	5.0
Charlottesville .....	3.8	4.1	4.1	19.5	20.2	20.1	23.1	25.2	24.9
Danville .....	1.4	1.4	1.4	8.5	9.5	9.1	5.0	6.2	5.2
Lynchburg .....	4.2	4.4	4.5	22.6	23.6	23.5	12.3	13.0	12.7
Norfolk-Virginia Beach-Newport News .....	30.2	31.7	31.8	192.7	198.3	197.9	131.5	138.2	131.0
Northern Virginia .....	53.4	53.0	52.9	368.6	391.6	392.6	171.9	178.7	173.4
Richmond-Petersburg .....	43.1	44.0	44.0	128.4	134.0	132.7	94.0	98.5	95.3
Roanoke .....	9.0	9.1	9.0	39.9	41.9	41.4	16.8	17.8	17.0
<b>Washington</b> .....	124.9	126.9	127.0	653.2	682.7	681.6	431.1	471.1	443.6
Seattle-Bellevue-Everett .....	75.5	76.8	77.1	350.9	368.9	366.3	168.5	187.6	178.8
Spokane .....	10.5	11.0	10.8	54.3	54.9	54.8	26.9	31.5	27.2
Tacoma .....	11.4	11.3	11.4	60.5	63.2	62.1	45.6	49.2	47.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>West Virginia</b> .....	704.1	715.2	716.6	25.8	24.8	24.8	37.6	37.6	39.0
Charleston .....	130.0	129.7	130.3	2.0	2.1	2.0	7.6	6.8	7.5
Huntington-Ashland .....	117.0	120.1	121.1	1.3	1.8	1.5	6.3	5.8	6.1
Parkersburg-Marietta .....	68.5	69.0	68.7	.4	.4	.4	4.7	4.7	4.7
Wheeling .....	64.8	65.0	66.2	1.5	1.7	1.7	2.7	2.8	2.9
<b>Wisconsin</b> .....	2,615.1	2,688.0	2,659.4	2.9	2.9	2.9	118.7	120.7	122.6
Appleton-Oshkosh-Neenah .....	191.0	194.3	192.2	(1)	(1)	(1)	11.5	12.7	12.7
Eau Claire .....	68.2	70.8	70.5	(1)	(1)	(1)	3.3	3.2	3.4
Green Bay .....	131.1	134.7	132.3	(1)	(1)	(1)	7.2	7.6	7.7
Janesville-Beloit .....	66.6	67.9	68.2	(1)	(1)	(1)	2.9	2.8	2.8
Kenosha .....	47.5	49.4	48.1	(1)	(1)	(1)	2.2	2.2	2.2
La Crosse .....	66.7	69.3	67.8	(1)	(1)	(1)	2.9	3.1	3.2
Madison .....	261.6	269.7	268.1	(1)	(1)	(1)	13.1	14.2	14.6
Milwaukee-Waukesha .....	813.8	834.7	824.4	(1)	(1)	(1)	30.8	31.5	32.0
Racine .....	80.3	82.8	82.0	(1)	(1)	(1)	3.3	3.4	3.5
Sheboygan .....	59.1	61.1	60.4	(1)	(1)	(1)	2.5	2.6	2.7
Wausau .....	61.9	64.5	63.8	(1)	(1)	(1)	2.9	2.8	2.9
<b>Wyoming</b> .....	226.9	231.7	225.9	16.3	15.7	16.0	15.5	15.5	15.8
Casper .....	29.4	30.6	30.5	1.8	1.8	1.9	1.8	2.0	2.0
<b>Puerto Rico</b> .....	1,041.8	983.9	972.3	1.1	1.0	1.0	54.0	56.9	56.8
Caguas .....	66.6	65.6	65.4	(1)	(1)	(1)	2.8	3.9	4.1
Mayaguez .....	74.8	70.7	67.6	(1)	(1)	(1)	3.8	3.6	3.8
Ponce .....	85.0	77.7	75.0	(1)	(1)	(1)	4.5	4.4	4.3
San Juan-Bayamon .....	633.7	611.7	607.6	.6	.5	.5	37.9	38.5	38.3
<b>Virgin Islands</b> .....	41.2	42.3	42.3	(1)	(1)	(1)	2.3	2.2	2.2

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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>West Virginia</b> .....	82.1	82.2	81.9	39.0	38.9	38.7	161.3	165.3	165.3
Charleston .....	9.9	10.0	10.0	9.1	9.2	9.1	32.0	31.4	31.3
Huntington-Ashland .....	17.4	16.8	16.9	6.9	6.9	6.9	31.3	32.0	31.9
Parkersburg-Marietta .....	13.5	12.8	12.9	2.8	2.9	2.9	17.2	17.8	17.9
Wheeling .....	6.2	6.0	5.9	3.2	3.0	2.9	16.3	16.3	16.4
<b>Wisconsin</b> .....	609.9	609.4	612.2	118.5	123.4	119.8	602.5	612.2	610.8
Appleton-Oshkosh-Neenah .....	60.6	59.5	59.6	7.2	7.6	7.4	39.6	40.1	39.9
Eau Claire .....	11.3	12.0	12.1	3.4	3.5	3.4	18.6	18.9	19.0
Green Bay .....	28.6	28.8	28.7	9.3	9.7	9.5	30.7	31.8	31.7
Janesville-Beloit .....	21.6	21.4	21.5	2.1	2.4	2.2	15.3	15.5	14.9
Kenosha .....	10.2	11.3	10.1	1.6	1.8	1.5	13.1	13.0	13.1
La Crosse .....	11.2	11.7	11.3	3.0	3.1	3.1	19.3	19.7	19.6
Madison .....	29.2	29.0	29.3	8.6	8.9	8.7	57.5	57.1	57.1
Milwaukee-Waukesha .....	175.7	177.0	176.0	37.4	38.7	37.2	178.8	178.5	178.6
Racine .....	24.7	25.2	25.2	3.1	3.2	3.2	16.6	17.0	16.7
Sheboygan .....	24.2	24.6	24.8	1.7	1.8	1.6	10.9	11.3	11.3
Wausau .....	17.9	18.5	18.6	3.1	3.3	3.2	15.0	15.7	15.7
<b>Wyoming</b> .....	11.1	10.9	11.1	14.1	13.9	13.9	55.6	54.2	55.6
Casper .....	1.6	1.5	1.5	1.5	1.6	1.6	8.5	8.6	8.7
<b>Puerto Rico</b> .....	151.9	151.0	147.2	24.1	23.9	23.5	186.9	194.4	191.9
Caguas .....	15.3	16.0	15.8	.7	.7	.7	13.3	13.9	13.7
Mayaguez .....	19.5	18.6	16.0	.7	.8	.8	10.8	11.4	11.2
Ponce .....	10.7	10.5	10.6	2.5	2.7	2.6	12.6	12.4	12.4
San Juan-Bayamon .....	70.0	69.1	68.2	18.5	18.2	18.0	124.6	129.2	127.7
<b>Virgin Islands</b> .....	2.4	2.2	2.2	2.2	2.4	2.4	9.1	9.8	9.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>West Virginia</b> .....	27.3	27.7	27.8	193.1	198.3	199.3	137.9	140.4	140.0
Charleston .....	7.0	7.3	7.4	39.0	39.4	39.3	23.4	23.5	23.7
Huntington-Ashland .....	3.8	3.8	3.8	31.7	32.8	33.3	18.3	20.6	20.7
Parkersburg-Marietta .....	2.5	2.5	2.6	17.2	17.4	18.6	10.2	10.5	8.7
Wheeling .....	2.7	2.7	2.7	22.0	21.7	22.6	10.2	10.8	11.1
<b>Wisconsin</b> .....	139.4	143.2	143.6	664.4	687.2	687.7	360.9	389.0	359.7
Appleton-Oshkosh-Neenah .....	9.5	9.5	9.6	41.9	42.6	42.2	20.7	22.4	20.8
Eau Claire .....	2.5	2.5	2.5	18.3	19.9	19.8	10.8	10.9	10.4
Green Bay .....	9.9	9.4	9.3	30.8	31.8	31.4	14.5	15.5	14.0
Janesville-Beloit .....	1.8	1.8	1.8	14.8	15.0	14.7	7.9	8.9	8.4
Kenosha .....	1.6	1.6	1.6	11.8	12.0	12.4	6.9	7.7	7.3
La Crosse .....	2.7	2.9	2.9	19.0	19.2	19.3	8.6	9.6	8.5
Madison .....	20.3	20.0	20.2	65.9	68.9	69.0	66.9	71.6	69.2
Milwaukee-Waukesha .....	57.0	58.9	59.0	249.0	257.7	259.2	85.0	92.5	82.5
Racine .....	2.3	2.4	2.4	21.0	22.0	21.8	9.4	9.7	9.3
Sheboygan .....	2.2	2.4	2.4	11.5	12.0	11.9	6.1	6.6	5.8
Wausau .....	4.7	4.8	4.9	11.9	12.2	12.3	6.3	7.2	6.5
<b>Wyoming</b> .....	8.2	8.1	8.2	54.1	52.9	54.3	52.0	60.5	51.0
Casper .....	1.2	1.2	1.2	8.4	8.5	8.8	4.6	5.4	4.8
<b>Puerto Rico</b> .....	44.7	45.4	46.0	176.5	179.9	177.0	402.6	331.4	328.9
Caguas .....	1.7	1.7	1.7	10.2	10.5	10.5	22.6	18.9	18.9
Mayaguez .....	2.0	1.9	1.9	10.7	10.7	10.9	27.3	23.7	23.0
Ponce .....	2.3	2.2	2.3	14.5	14.7	14.4	37.9	30.8	28.4
San Juan-Bayamon .....	34.9	35.8	36.3	123.7	125.0	121.8	223.5	195.4	196.8
<b>Virgin Islands</b> .....	1.8	1.8	1.8	8.7	10.1	10.1	14.7	13.8	13.9

<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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Total private</b> .....		34.6	34.8	34.9	34.8	35.0	-	-	-	-	-
<b>Goods-producing</b> .....		40.8	41.4	41.4	41.0	41.5	-	-	-	-	-
<b>Mining</b> .....		44.8	45.3	45.8	45.1	45.0	-	-	-	-	-
Metal mining .....	10	43.6	43.0	44.2	44.2	-	-	-	-	-	-
Iron ores .....	101	43.4	44.2	44.5	44.1	-	-	-	-	-	-
Copper ores .....	102	46.1	44.5	46.2	47.1	-	-	-	-	-	-
Coal mining .....	12	43.6	45.3	45.6	43.7	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	43.6	45.4	45.7	43.8	-	-	-	-	-	-
Oil and gas extraction .....	13	44.0	44.5	45.3	44.3	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	41.0	40.5	42.6	41.3	-	-	-	-	-	-
Oil and gas field services .....	138	45.8	46.8	46.6	45.7	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	48.5	48.5	48.2	48.7	-	-	-	-	-	-
Crushed and broken stone .....	142	49.7	49.6	50.0	50.9	-	-	-	-	-	-
<b>Construction</b> .....		39.8	39.9	39.5	40.1	39.7	-	-	-	-	-
General building contractors .....	15	38.6	38.6	38.6	38.9	-	-	-	-	-	-
Residential building construction .....	152	37.1	37.2	37.3	37.3	-	-	-	-	-	-
Operative builders .....	153	40.3	40.4	39.0	38.6	-	-	-	-	-	-
Nonresidential building construction .....	154	40.0	40.0	39.8	40.4	-	-	-	-	-	-
Heavy construction, except building .....	16	44.2	44.2	43.5	44.5	-	-	-	-	-	-
Highway and street construction .....	161	46.6	46.8	45.5	47.0	-	-	-	-	-	-
Heavy construction, except highway .....	162	43.1	43.0	42.4	43.2	-	-	-	-	-	-
Special trade contractors .....	17	39.1	39.2	38.9	39.4	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	40.2	39.8	39.8	40.2	-	-	-	-	-	-
Painting and paper hanging .....	172	37.1	37.7	37.3	38.2	-	-	-	-	-	-
Electrical work .....	173	40.2	40.8	40.1	40.3	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	36.5	36.4	36.1	36.8	-	-	-	-	-	-
Carpentry and floor work .....	175	35.7	36.1	35.9	35.9	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	36.6	37.0	35.9	37.2	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.1	41.8	42.0	41.3	42.0	4.3	4.7	4.7	4.5	5.0
<b>Durable goods</b> .....		41.7	42.5	42.8	41.9	42.8	4.4	5.0	5.0	4.7	5.3
Lumber and wood products .....	24	40.7	41.4	41.5	40.8	41.4	4.3	4.6	4.5	4.4	-
Logging .....	241	41.7	42.1	41.1	41.2	-	5.3	6.0	5.8	6.1	-
Sawmills and planing mills .....	242	41.2	42.3	42.9	41.9	-	5.0	5.3	5.5	5.1	-
Sawmills and planing mills, general .....	2421	41.6	42.6	43.3	42.6	-	5.4	5.7	6.0	5.6	-
Hardwood dimension and flooring mills .....	2428	39.5	40.7	41.3	39.4	-	3.3	3.6	3.4	3.0	-
Millwork, plywood, and structural members .....	243	40.5	41.5	41.9	41.1	-	4.2	4.5	4.4	4.4	-
Millwork .....	2431	41.0	41.7	41.8	41.0	-	3.8	4.0	3.7	3.7	-
Wood kitchen cabinets .....	2434	38.9	39.9	40.3	40.1	-	3.7	3.9	4.0	4.4	-
Hardwood veneer and plywood .....	2436	38.8	42.0	42.7	40.4	-	4.4	4.9	4.6	4.6	-
Softwood veneer and plywood .....	2438	42.4	43.5	45.5	43.1	-	5.7	5.9	6.3	5.7	-
Wood containers .....	244	38.8	39.1	39.2	38.8	-	3.4	3.4	3.9	3.1	-
Wood buildings and mobile homes .....	245	40.4	40.0	39.7	38.9	-	3.9	3.5	2.6	3.0	-
Mobile homes .....	2451	40.8	40.0	39.7	39.3	-	4.0	3.3	2.6	2.9	-
Miscellaneous wood products .....	249	40.5	40.9	41.2	40.2	-	3.5	3.5	3.6	3.5	-
Furniture and fixtures .....	25	39.3	40.1	39.9	39.4	40.8	3.1	3.5	3.3	3.4	-
Household furniture .....	251	37.8	38.9	38.4	37.6	-	2.3	2.7	2.4	2.5	-
Wood household furniture .....	2511	37.8	39.5	38.8	37.5	-	2.2	2.8	2.5	2.4	-
Upholstered household furniture .....	2512	36.6	37.3	37.4	36.8	-	1.4	1.8	1.7	1.7	-
Metal household furniture .....	2514	40.6	41.3	39.5	38.6	-	3.9	4.1	3.4	3.1	-
Mattresses and bedsprings .....	2515	39.1	40.5	38.4	39.7	-	3.8	4.0	3.2	4.9	-
Office furniture .....	252	40.2	40.5	41.6	41.1	-	3.7	3.6	4.4	4.4	-
Public building and related furniture .....	253	42.3	42.3	41.1	40.6	-	5.6	5.9	4.2	4.7	-
Partitions and fixtures .....	254	42.3	42.5	43.5	43.6	-	4.5	5.1	5.0	5.3	-
Miscellaneous furniture and fixtures .....	259	39.6	40.0	39.5	39.2	-	3.4	3.6	3.2	3.2	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Total private</b> .....		\$11.73	\$11.76	\$12.17	\$12.15	\$12.19	\$405.86	\$409.25	\$424.73	\$422.82	\$426.65
<b>Goods-producing</b> .....		13.54	13.54	13.86	13.93	13.97	552.43	560.56	573.80	571.13	579.76
<b>Mining</b> .....		15.54	15.51	18.11	18.02	15.97	696.19	702.60	737.84	722.50	718.65
Metal mining .....	10	17.28	17.41	17.77	17.71	-	753.41	748.63	785.43	782.78	-
Iron ores .....	101	18.47	18.58	18.42	19.19	-	801.60	821.24	819.69	846.28	-
Copper ores .....	102	15.69	15.83	16.36	16.10	-	723.31	704.44	755.83	758.31	-
Coal mining .....	12	18.65	18.61	18.94	19.00	-	813.14	843.03	863.66	830.30	-
Bituminous coal and lignite mining .....	122	18.95	18.91	19.27	19.34	-	826.22	858.51	880.64	847.09	-
Oil and gas extraction .....	13	14.80	14.73	15.62	15.47	-	651.20	655.49	707.59	685.32	-
Crude petroleum and natural gas .....	131	19.26	19.18	21.35	21.09	-	789.66	776.79	909.51	871.02	-
Oil and gas field services .....	138	12.51	12.54	12.96	12.96	-	572.96	586.87	603.94	592.27	-
Nonmetallic minerals, except fuels .....	14	13.88	13.93	14.23	14.34	-	673.18	675.61	685.89	698.36	-
Crushed and broken stone .....	142	13.27	13.38	13.62	13.66	-	659.52	663.65	681.00	695.29	-
<b>Construction</b> .....		15.51	15.57	15.88	15.99	16.09	617.30	621.24	627.26	641.20	638.77
General building contractors .....	15	14.57	14.58	14.89	14.98	-	562.40	562.79	574.75	582.72	-
Residential building construction .....	152	13.16	13.23	13.79	13.78	-	488.24	492.16	514.37	513.99	-
Operative builders .....	153	13.79	13.86	14.98	15.03	-	555.74	559.94	584.22	580.16	-
Nonresidential building construction .....	154	15.88	15.84	15.92	16.08	-	635.20	633.60	633.62	649.63	-
Heavy construction, except building .....	16	15.46	15.51	15.62	15.73	-	683.33	685.54	679.47	699.99	-
Highway and street construction .....	161	15.85	15.94	15.86	16.05	-	736.61	745.99	721.63	754.35	-
Heavy construction, except highway .....	162	15.25	15.28	15.48	15.55	-	657.28	657.04	656.35	671.76	-
Special trade contractors .....	17	15.83	15.91	16.27	16.39	-	618.95	623.67	632.90	645.77	-
Plumbing, heating, and air conditioning .....	171	16.16	16.13	16.65	16.83	-	649.63	641.97	662.67	676.57	-
Painting and paper hanging .....	172	14.11	14.24	14.51	14.47	-	523.48	536.85	541.22	552.75	-
Electrical work .....	173	17.24	17.23	17.65	17.79	-	693.05	702.98	707.77	716.94	-
Masonry, stonework, and plastering .....	174	15.76	15.90	16.17	16.25	-	575.24	578.76	583.74	598.00	-
Carpentry and floor work .....	175	15.36	15.61	15.88	15.98	-	548.35	563.52	570.09	573.68	-
Roofing, siding, and sheet metal work .....	176	13.64	13.74	13.99	14.27	-	499.22	508.38	502.24	530.84	-
<b>Manufacturing</b> .....		12.79	12.79	13.10	13.12	13.17	525.67	534.62	550.20	541.86	553.14
<b>Durable goods</b> .....		13.35	13.39	13.66	13.63	13.73	556.70	569.08	584.65	571.10	587.64
Lumber and wood products .....	24	10.47	10.54	10.77	10.83	10.84	426.13	436.36	446.96	441.86	448.78
Logging .....	241	11.69	12.00	12.30	12.35	-	487.47	505.20	505.53	508.82	-
Sawmills and planing mills .....	242	10.61	10.54	10.85	10.85	-	437.13	445.84	465.47	454.62	-
Sawmills and planing mills, general .....	2421	10.93	10.88	11.26	11.25	-	454.69	463.49	487.56	479.25	-
Hardwood dimension and flooring mills .....	2426	9.25	9.14	9.16	9.13	-	365.38	372.00	378.31	359.72	-
Millwork, plywood, and structural members .....	243	10.56	10.67	10.89	10.96	-	427.68	442.81	456.29	450.46	-
Millwork .....	2431	10.70	10.86	10.87	10.97	-	438.70	452.86	452.19	449.77	-
Wood kitchen cabinets .....	2434	10.10	10.18	10.76	10.77	-	392.89	406.18	433.63	431.88	-
Hardwood veneer and plywood .....	2435	9.33	9.23	9.45	9.52	-	362.00	387.66	403.52	384.61	-
Softwood veneer and plywood .....	2436	12.82	12.94	13.02	13.26	-	543.57	562.89	592.41	571.51	-
Wood containers .....	244	7.98	8.10	8.34	8.23	-	309.62	316.71	326.93	319.32	-
Wood buildings and mobile homes .....	245	10.71	10.77	10.80	11.02	-	432.68	430.80	428.76	428.68	-
Mobile homes .....	2451	10.90	10.97	11.04	11.25	-	444.72	438.80	438.29	442.13	-
Miscellaneous wood products .....	249	9.96	9.90	10.27	10.33	-	403.38	404.91	423.12	415.27	-
Furniture and fixtures .....	25	10.13	10.19	10.51	10.53	10.82	398.11	408.62	419.35	414.88	441.46
Household furniture .....	251	9.60	9.62	9.92	9.94	-	362.88	374.22	360.93	373.74	-
Wood household furniture .....	2511	9.23	9.17	9.45	9.47	-	348.89	362.22	366.66	355.13	-
Upholstered household furniture .....	2512	10.21	10.31	10.60	10.50	-	373.69	384.56	396.44	386.40	-
Metal household furniture .....	2514	9.24	9.21	9.48	9.61	-	375.14	380.37	374.46	370.95	-
Mattresses and bedsprings .....	2515	10.37	10.34	10.72	10.79	-	405.47	418.77	411.65	428.36	-
Office furniture .....	252	11.08	10.97	11.62	11.59	-	445.42	444.29	463.39	476.35	-
Public building and related furniture .....	253	10.18	10.75	11.47	11.21	-	430.61	454.73	471.42	455.13	-
Partitions and fixtures .....	254	11.07	11.16	11.18	11.28	-	468.26	474.30	465.46	491.81	-
Miscellaneous furniture and fixtures .....	259	10.23	10.35	10.36	10.44	-	405.11	414.00	409.22	409.25	-

See footnotes at end of table.



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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	43.5	44.0	43.6	43.3	43.8	6.3	6.6	6.1	6.2	-
Flat glass .....	321	44.4	47.1	47.3	43.2	-	7.3	9.2	8.4	6.1	-
Glass and glassware, pressed or blown .....	322	42.1	42.8	42.4	41.9	-	4.7	4.9	4.8	4.6	-
Glass containers .....	3221	43.8	44.4	44.7	44.0	-	6.1	6.2	6.6	6.4	-
Pressed and blown glass, nec .....	3229	40.8	41.6	41.0	40.5	-	3.7	4.0	3.6	3.5	-
Products of purchased glass .....	323	40.3	41.9	41.4	39.8	-	3.7	4.4	4.0	3.2	-
Cement, hydraulic .....	324	44.1	43.5	44.5	44.6	-	5.1	4.7	4.9	5.0	-
Structural clay products .....	325	41.1	41.6	42.6	42.1	-	4.4	4.7	4.9	5.1	-
Pottery and related products .....	326	40.7	41.3	40.5	39.6	-	4.3	4.6	4.4	4.4	-
Concrete, gypsum, and plaster products .....	327	46.1	46.5	45.5	46.3	-	8.7	9.0	8.0	8.6	-
Concrete block and brick .....	3271	47.2	47.3	46.9	47.0	-	9.1	9.1	9.3	9.4	-
Concrete products, nec .....	3272	44.0	44.7	44.2	44.4	-	6.6	7.4	6.5	6.9	-
Ready-mixed concrete .....	3273	46.9	47.1	45.7	47.1	-	9.9	10.0	8.7	9.6	-
Misc. nonmetallic mineral products .....	329	42.6	42.5	42.6	41.8	-	5.2	5.4	5.2	5.1	-
Abrasive products .....	3291	42.3	42.5	43.0	41.1	-	4.3	4.1	3.9	3.7	-
Asbestos products .....	3292	46.4	45.5	46.3	44.9	-	5.3	5.6	7.5	6.8	-
Primary metal industries .....	33	43.6	44.1	44.8	43.9	44.8	6.1	6.5	6.5	6.4	-
Blast furnaces and basic steel products .....	331	44.4	44.0	44.6	44.4	44.9	6.5	6.5	6.3	6.4	-
Blast furnaces and steel mills .....	3312	44.9	44.2	45.0	45.3	-	6.7	6.8	6.6	6.8	-
Steel pipe and tubes .....	3317	41.8	43.0	43.4	41.2	-	5.9	6.1	5.7	5.6	-
Iron and steel foundries .....	332	43.2	45.0	46.2	44.6	-	5.6	6.6	7.1	6.7	-
Gray and ductile iron foundries .....	3321	43.5	45.7	47.0	44.8	-	6.1	7.4	8.0	7.4	-
Malleable iron foundries .....	3322	47.7	48.0	51.5	50.7	-	7.3	7.5	10.3	8.7	-
Steel foundries, nec .....	3325	41.7	42.8	43.9	42.7	-	4.9	5.1	4.9	5.1	-
Primary nonferrous metals .....	333	42.4	42.6	44.0	43.5	-	5.3	5.3	6.0	5.9	-
Primary aluminum .....	3334	42.3	42.8	43.7	43.0	-	5.3	5.4	5.9	5.9	-
Nonferrous rolling and drawing .....	335	44.5	44.8	45.1	44.2	-	7.1	7.6	7.3	7.3	-
Copper rolling and drawing .....	3351	45.7	44.7	43.7	41.9	-	8.8	8.1	7.0	7.4	-
Aluminum sheet, plate, and foil .....	3353	46.3	45.3	46.5	46.0	-	7.9	8.5	8.5	8.0	-
Nonferrous wire drawing and insulating .....	3357	42.7	44.2	45.5	44.3	-	5.6	7.0	7.1	7.3	-
Nonferrous foundries (castings) .....	336	41.2	42.9	43.4	42.0	-	4.4	5.3	5.0	4.5	-
Aluminum foundries .....	3365	42.7	42.8	43.2	41.1	-	5.4	5.6	5.2	4.5	-
Fabricated metal products .....	34	41.6	42.6	42.6	41.7	42.5	4.4	5.0	4.9	4.6	-
Metal cans and shipping containers .....	341	42.3	43.2	43.6	43.6	-	6.5	7.1	6.7	7.1	-
Metal cans .....	3411	42.7	43.5	43.7	43.8	-	6.6	7.0	6.5	7.2	-
Cutlery, handtools, and hardware .....	342	40.8	42.8	42.3	41.1	-	3.5	4.6	4.3	3.9	-
Hand and edge tools, and blades and handsaws .....	3423,5	41.4	42.6	42.1	40.9	-	3.4	4.2	4.1	3.8	-
Hardware, nec .....	3429	40.1	42.7	42.4	41.2	-	3.5	4.8	4.4	4.0	-
Plumbing and heating, except electric .....	343	39.8	42.3	41.4	40.5	-	3.6	4.8	4.0	4.1	-
Plumbing fixture fittings and trim .....	3432	41.4	42.4	40.9	40.8	-	3.5	4.2	3.4	3.9	-
Heating equipment, except electric .....	3433	39.1	42.4	41.0	39.7	-	3.3	5.5	3.5	3.4	-
Fabricated structural metal products .....	344	42.1	42.5	42.1	42.0	-	4.9	5.1	4.6	4.8	-
Fabricated structural metal .....	3441	43.5	43.4	42.7	42.7	-	6.1	6.2	5.4	5.9	-
Metal doors, sash, and trim .....	3442	41.7	42.2	41.2	41.2	-	4.3	4.4	3.7	4.0	-
Fabricated plate work (boiler shops) .....	3443	42.3	43.0	43.0	42.8	-	4.8	5.3	5.2	5.2	-
Sheet metal work .....	3444	41.3	41.8	41.5	41.1	-	4.2	4.6	4.0	3.8	-
Architectural metal work .....	3446	41.2	41.9	41.2	41.4	-	4.6	4.6	4.1	4.4	-
Screw machine products, bolts, etc .....	345	42.0	43.1	43.7	42.9	-	4.8	5.3	5.5	5.2	-
Screw machine products .....	3451	41.1	42.0	42.6	42.0	-	4.0	4.5	5.0	4.5	-
Bolts, nuts, rivets, and washers .....	3452	43.1	44.4	44.9	43.9	-	5.7	6.2	6.2	5.9	-
Metal forgings and stampings .....	346	41.9	43.4	44.2	41.8	-	4.4	5.6	6.1	4.7	-
Iron and steel forgings .....	3462	42.1	43.1	44.3	43.3	-	5.0	5.8	6.6	6.6	-
Automotive stampings .....	3465	42.4	44.6	45.6	41.5	-	4.5	6.1	6.8	3.9	-
Metal stampings, nec .....	3469	40.5	41.3	42.0	40.9	-	3.7	4.2	4.6	4.3	-
Metal services, nec .....	347	41.1	41.8	41.9	40.9	-	4.4	4.7	4.9	4.6	-
Plating and polishing .....	3471	40.6	41.4	41.2	39.7	-	4.1	4.3	4.7	4.1	-
Metal coating and allied services .....	3479	41.8	42.5	43.0	42.8	-	5.0	5.3	5.3	5.3	-
Ordnance and accessories, nec .....	348	41.2	41.2	40.4	39.5	-	3.7	3.6	3.2	2.8	-
Ammunition, except for small arms, nec .....	3483	41.7	42.4	41.0	39.9	-	3.3	3.7	2.9	2.5	-
Misc. fabricated metal products .....	349	41.3	42.0	42.5	41.4	-	3.9	4.2	4.5	4.3	-
Valves and pipe fittings, nec .....	3494	40.7	42.6	41.8	41.5	-	3.8	4.4	4.6	4.5	-
Misc. fabricated wire products .....	3496	40.4	40.7	41.3	39.6	-	3.8	3.8	3.8	3.4	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>a</sup>	Aug. 1997 <sup>a</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>a</sup>	Aug. 1997 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$12.94	\$12.92	\$13.13	\$13.21	\$13.20	\$562.89	\$568.48	\$572.47	\$571.99	\$578.16
Flat glass .....	321	19.46	18.58	18.49	18.57	-	864.02	875.12	874.58	802.22	-
Glass and glassware, pressed or blown .....	322	14.63	14.57	15.00	15.10	-	615.92	623.60	636.00	632.69	-
Glass containers .....	3221	15.38	15.36	15.63	15.81	-	673.64	681.98	698.66	695.64	-
Pressed and blown glass, nec .....	3229	14.04	13.97	14.56	14.60	-	572.83	581.15	596.96	591.30	-
Products of purchased glass .....	323	11.24	11.37	11.76	11.71	-	452.97	476.40	486.86	466.06	-
Cement, hydraulic .....	324	16.73	16.71	16.98	17.19	-	737.79	726.89	755.61	766.67	-
Structural clay products .....	325	11.56	11.50	11.48	11.59	-	475.12	478.40	489.05	487.94	-
Pottery and related products .....	326	10.91	11.07	11.47	11.46	-	444.04	457.19	464.54	453.82	-
Concrete, gypsum, and plaster products .....	327	12.49	12.50	12.61	12.72	-	575.79	581.25	573.76	588.94	-
Concrete block and brick .....	3271	11.84	11.90	12.39	12.56	-	558.85	562.87	581.09	590.32	-
Concrete products, nec .....	3272	11.00	11.08	11.16	11.29	-	484.00	495.28	493.27	501.28	-
Ready-mixed concrete .....	3273	13.29	13.29	13.38	13.46	-	623.30	625.96	611.47	633.97	-
Misc. nonmetallic mineral products .....	329	13.48	13.38	13.57	13.75	-	574.25	568.65	578.08	574.75	-
Abrasive products .....	3291	11.59	11.48	11.81	11.89	-	490.26	487.90	507.83	488.68	-
Asbestos products .....	3292	15.93	15.61	15.67	15.63	-	739.15	710.26	725.52	701.79	-
<b>Primary metal industries</b>											
Blast furnaces and basic steel products .....	33	15.08	15.02	15.16	15.30	15.26	657.49	662.38	679.17	671.67	683.65
Blast furnaces and steel mills .....	331	17.96	17.83	17.99	18.08	18.01	797.42	784.52	802.35	802.75	808.65
Steel pipe and tubes .....	3312	19.46	19.40	19.66	19.66	-	873.75	857.48	884.70	890.60	-
Iron and steel foundries .....	3317	13.84	13.78	13.98	13.97	-	578.51	592.54	606.73	575.56	-
Gray and ductile iron foundries .....	332	13.52	13.73	13.62	13.88	-	584.06	617.85	629.24	619.05	-
Malleable iron foundries .....	3321	14.33	14.57	14.44	14.86	-	623.36	665.85	678.68	665.73	-
Steel foundries, nec .....	3322	15.64	16.23	16.38	15.66	-	746.03	779.04	843.57	793.96	-
Steel foundries, nec .....	3325	12.53	12.42	12.42	12.57	-	522.50	531.58	545.24	536.74	-
Primary nonferrous metals .....	333	16.27	16.15	16.68	16.91	-	689.85	687.99	733.92	735.59	-
Primary aluminum .....	3334	16.17	16.14	16.74	16.97	-	683.99	690.79	731.54	729.71	-
Nonferrous rolling and drawing .....	335	14.01	14.04	14.39	14.42	-	623.45	628.99	648.99	637.36	-
Copper rolling and drawing .....	3351	14.48	14.29	14.47	14.78	-	661.74	638.76	632.34	619.28	-
Aluminum sheet, plate, and foil .....	3353	15.54	15.68	16.59	16.68	-	719.50	710.30	771.44	767.28	-
Nonferrous wire drawing and insulating .....	3357	14.26	14.38	14.42	14.42	-	608.90	635.60	656.11	638.81	-
Nonferrous foundries (castings) .....	336	11.83	11.94	12.03	11.89	-	487.40	512.23	522.10	499.38	-
Aluminum foundries .....	3365	11.31	11.50	11.55	11.65	-	482.94	492.20	498.96	478.82	-
<b>Fabricated metal products</b>											
Metal cans and shipping containers .....	34	12.51	12.54	12.77	12.68	12.80	520.42	534.20	544.00	528.76	544.00
Metal cans .....	341	16.12	16.12	16.36	16.43	-	681.88	696.38	713.30	716.35	-
Metal cans .....	3411	17.05	17.06	17.37	17.46	-	728.04	742.11	759.07	764.75	-
Cutlery, handtools, and hardware .....	342	12.32	12.52	12.43	12.41	-	502.66	535.86	525.79	510.05	-
Hand and edge tools, and blades and handsaws .....	3423,5	11.51	11.54	11.92	11.82	-	476.51	491.60	501.83	483.44	-
Hardware, nec .....	3429	12.37	12.68	12.57	12.64	-	496.04	541.44	532.97	520.77	-
Plumbing and heating, except electric .....	343	11.33	11.36	11.74	11.82	-	450.93	480.53	486.04	478.71	-
Plumbing fixture fittings and trim .....	3432	10.89	11.05	11.37	11.49	-	450.85	468.52	465.03	468.79	-
Heating equipment, except electric .....	3433	11.28	11.60	11.78	11.66	-	441.05	491.84	482.98	462.90	-
Fabricated structural metal products .....	344	11.70	11.77	12.02	12.06	-	492.57	500.23	506.04	506.52	-
Fabricated structural metal .....	3441	11.87	11.94	12.02	12.12	-	516.35	518.20	513.25	517.52	-
Metal doors, sash, and trim .....	3442	9.92	10.00	10.31	10.40	-	413.66	422.00	424.77	428.48	-
Fabricated plate work (boiler shops) .....	3443	12.86	13.08	13.39	13.34	-	543.98	562.44	575.77	570.95	-
Sheet metal work .....	3444	12.03	12.03	12.27	12.33	-	496.84	502.85	509.21	506.76	-
Architectural metal work .....	3446	11.01	10.93	11.48	11.52	-	453.61	457.97	472.98	476.93	-
Screw machine products, bolts, etc .....	345	12.35	12.50	12.79	12.77	-	518.70	538.75	558.92	547.83	-
Screw machine products .....	3451	11.73	11.85	12.11	12.25	-	482.10	497.70	515.89	514.50	-
Bolts, nuts, rivets, and washers .....	3452	13.03	13.21	13.56	13.33	-	561.59	586.52	608.84	585.19	-
Metal forgings and stampings .....	346	15.02	14.78	15.15	14.66	-	629.34	641.45	669.63	612.79	-
Iron and steel forgings .....	3462	14.11	14.04	14.17	14.37	-	594.03	605.12	627.73	622.22	-
Automotive stampings .....	3465	17.50	16.94	17.59	16.83	-	742.00	755.52	802.10	698.45	-
Metal stampings, nec .....	3469	11.89	11.86	12.18	12.22	-	481.55	489.82	511.56	499.80	-
Metal services, nec .....	347	10.49	10.49	10.74	10.73	-	431.14	438.48	450.01	438.86	-
Plating and polishing .....	3471	10.34	10.35	10.61	10.56	-	419.80	428.49	437.13	419.23	-
Metal coating and allied services .....	3479	10.71	10.70	10.95	10.99	-	447.68	454.75	470.85	470.37	-
Ordnance and accessories, nec .....	348	14.54	14.60	15.04	15.39	-	599.05	601.52	607.62	607.91	-
Ammunition, except for small arms, nec .....	3483	15.44	15.66	15.88	16.26	-	643.85	663.98	651.08	648.77	-
Misc. fabricated metal products .....	349	11.86	11.87	12.10	12.20	-	489.82	498.54	514.25	505.08	-
Valves and pipe fittings, nec .....	3494	12.10	12.14	12.23	12.46	-	492.47	517.16	511.21	517.09	-
Misc. fabricated wire products .....	3496	10.50	10.53	10.84	10.91	-	424.20	428.57	447.69	432.04	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	42.4	42.7	43.4	42.8	43.2	4.6	4.8	5.3	5.1	-
Engines and turbines .....	351	40.6	42.2	43.3	44.6	-	4.2	4.7	5.2	5.3	-
Turbines and turbine generator sets .....	3511	40.4	42.4	42.4	44.3	-	3.8	5.1	4.5	4.0	-
Internal combustion engines, nec .....	3519	40.7	42.1	43.6	44.7	-	4.3	4.5	5.4	5.7	-
Farm and garden machinery .....	352	41.0	41.6	42.4	41.7	-	3.5	4.1	4.5	4.5	-
Farm machinery and equipment .....	3523	41.4	41.8	43.2	42.0	-	4.1	4.5	5.4	5.4	-
Construction and related machinery .....	353	43.0	43.7	44.9	44.2	-	5.2	5.6	6.1	5.8	-
Construction machinery .....	3531	42.2	42.6	44.4	43.0	-	4.5	4.9	5.5	4.6	-
Mining machinery .....	3532	41.7	43.3	43.0	42.3	-	4.2	4.7	5.0	3.7	-
Oil and gas field machinery .....	3533	47.2	48.6	49.8	50.1	-	9.1	9.9	9.6	9.6	-
Conveyors and conveying equipment .....	3535	42.4	42.1	43.5	42.4	-	5.1	4.7	5.7	5.1	-
Industrial trucks and tractors .....	3537	39.6	41.2	41.5	40.9	-	3.0	3.4	4.0	4.2	-
Metalworking machinery .....	354	42.7	43.1	44.1	43.3	-	5.5	5.5	6.1	5.9	-
Machine tools, metal cutting types .....	3541	43.4	43.7	44.3	43.5	-	5.3	5.4	5.7	5.6	-
Machine tools, metal forming types .....	3542	43.3	43.1	43.8	44.1	-	5.7	5.5	5.4	6.0	-
Special dies, tools, jigs, and fixtures .....	3544	42.8	43.3	44.3	43.4	-	6.0	6.2	6.7	6.5	-
Machine tool accessories .....	3545	42.8	42.2	43.2	42.6	-	4.5	4.4	4.8	4.8	-
Power driven handtools .....	3546	41.2	40.8	41.4	41.6	-	3.9	3.7	3.9	4.1	-
Special industry machinery .....	355	41.6	42.0	43.3	42.5	-	4.1	4.3	5.1	4.9	-
Textile machinery .....	3552	40.5	42.3	42.1	41.2	-	3.0	3.8	4.0	3.8	-
Printing trades machinery .....	3555	40.8	40.9	41.3	41.7	-	4.2	3.9	4.5	4.6	-
Food products machinery .....	3556	42.0	42.6	42.3	41.1	-	4.5	4.7	4.3	4.2	-
General industrial machinery .....	356	42.4	42.9	43.1	42.4	-	4.3	4.7	5.0	4.7	-
Pumps and pumping equipment .....	3561	41.9	42.7	42.3	40.8	-	4.8	4.8	4.6	4.0	-
Ball and roller bearings .....	3562	43.3	44.1	43.4	42.3	-	4.6	6.2	5.8	6.0	-
Air and gas compressors .....	3563	42.8	42.5	43.2	42.6	-	4.7	4.6	4.8	4.4	-
Blowers and fans .....	3564	43.6	44.2	44.1	43.7	-	3.9	4.5	4.7	4.7	-
Speed changers, drives, and gears .....	3566	42.5	42.5	42.8	43.5	-	4.9	5.0	5.6	5.5	-
Power transmission equipment, nec .....	3568	41.8	41.2	42.8	41.4	-	4.5	3.8	5.4	4.5	-
Computer and office equipment .....	357	41.4	41.0	42.3	42.0	-	2.4	2.6	3.5	3.3	-
Electronic computers .....	3571	42.4	41.1	41.9	41.8	-	1.3	1.4	2.5	2.3	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	41.0	41.2	43.0	42.3	-	3.8	4.6	5.3	4.6	-
Refrigeration and service machinery .....	358	43.9	44.3	43.4	42.9	-	5.5	5.4	4.8	5.0	-
Refrigeration and heating equipment .....	3585	44.8	45.1	43.8	43.6	-	6.0	6.0	5.2	5.5	-
Misc. industrial and commercial machinery .....	359	42.3	42.5	43.0	42.4	-	4.9	5.0	5.5	5.4	-
Carburetors, pistons, rings, valves .....	3592	39.8	42.3	40.9	38.6	-	4.7	5.2	4.5	3.8	-
Scales, balances, and industrial machinery, nec .....	3596,9	42.4	42.3	42.9	42.5	-	4.9	5.0	5.6	5.5	-
Electronic and other electrical equipment .....	36	40.6	41.6	42.0	41.3	41.9	3.6	4.1	4.1	4.0	-
Electric distribution equipment .....	361	40.5	41.1	41.8	40.9	-	3.8	4.1	4.1	4.0	-
Transformers, except electronic .....	3612	39.7	40.9	42.3	41.6	-	2.9	3.5	3.7	3.6	-
Switchgear and switchboard apparatus .....	3613	41.3	41.3	41.4	40.3	-	4.7	4.8	4.5	4.5	-
Electrical industrial apparatus .....	362	41.4	41.7	41.7	40.7	-	3.7	3.8	3.7	3.4	-
Motors and generators .....	3621	41.8	42.2	41.9	40.6	-	4.1	4.1	3.8	3.3	-
Relays and industrial controls .....	3625	40.0	40.2	40.9	40.3	-	2.9	3.2	3.6	3.3	-
Household appliances .....	363	39.5	42.6	39.8	38.9	-	2.6	3.6	2.8	3.0	-
Household refrigerators and freezers .....	3632	40.8	41.4	37.7	40.4	-	1.5	1.8	2.1	3.1	-
Household laundry equipment .....	3633	37.5	47.3	39.7	38.2	-	2.3	5.3	1.7	1.9	-
Electric housewares and fans .....	3634	40.8	41.4	41.8	40.2	-	2.9	3.4	2.9	2.4	-
Electric lighting and wiring equipment .....	364	40.7	41.6	42.3	40.8	-	3.0	4.1	4.4	3.9	-
Electric lamps .....	3641	43.3	42.4	43.4	42.9	-	3.1	3.8	5.3	4.3	-
Current-carrying wiring devices .....	3643	40.1	41.2	41.6	40.6	-	3.4	3.8	4.4	4.3	-
Noncurrent-carrying wiring devices .....	3644	41.1	41.9	41.7	39.6	-	3.2	3.8	3.0	2.9	-
Residential lighting fixtures .....	3645	37.2	39.8	39.0	38.4	-	1.6	3.7	2.0	1.9	-
Household audio and video equipment .....	365	39.7	40.8	42.4	41.3	-	4.5	4.8	4.1	4.5	-
Household audio and video equipment .....	3651	40.4	40.9	42.0	41.0	-	3.5	3.8	3.5	3.2	-
Communications equipment .....	366	42.3	42.5	42.2	42.4	-	3.5	3.8	3.8	3.9	-
Telephone and telegraph apparatus .....	3661	43.8	43.5	44.2	44.6	-	4.0	4.1	4.5	4.6	-
Electronic components and accessories .....	367	39.9	40.7	42.4	41.9	-	3.9	4.1	4.5	4.4	-
Electron tubes .....	3671	38.4	39.1	39.8	39.8	-	4.3	4.0	4.3	4.6	-
Semiconductors and related devices .....	3674	39.8	39.8	43.2	43.5	-	4.7	4.5	4.8	5.6	-
Electronic components, nec .....	3679	40.2	40.9	42.3	40.9	-	3.4	3.3	4.2	3.1	-
Misc. electrical equipment and supplies .....	369	41.1	43.0	42.1	40.9	-	3.9	5.2	4.4	3.5	-
Storage batteries .....	3691	40.8	43.9	41.4	39.9	-	5.3	5.8	4.1	4.4	-
Engine electrical equipment .....	3694	41.9	43.3	43.1	41.2	-	3.8	5.9	5.2	3.2	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$13.55	\$13.63	\$13.95	\$14.01	\$14.02	\$574.52	\$582.00	\$605.43	\$599.63	\$605.66
Engines and turbines .....	351	16.26	16.67	16.88	17.06	-	660.16	703.47	730.90	760.88	-
Turbines and turbine generator sets .....	3511	18.00	18.76	19.10	19.24	-	727.20	795.42	809.84	852.33	-
Internal combustion engines, nec .....	3519	15.66	15.91	16.14	16.29	-	637.36	669.81	703.70	728.16	-
Farm and garden machinery .....	352	13.61	13.72	13.71	13.98	-	558.01	570.75	581.30	582.97	-
Farm machinery and equipment .....	3523	14.38	14.47	14.74	14.90	-	595.33	604.85	636.77	625.80	-
Construction and related machinery .....	353	13.13	13.11	13.48	13.52	-	564.59	572.91	605.25	597.58	-
Construction machinery .....	3531	13.46	13.44	13.84	13.91	-	568.01	572.54	614.50	598.13	-
Mining machinery .....	3532	14.03	14.05	14.60	14.40	-	585.05	608.37	627.80	609.12	-
Oil and gas field machinery .....	3533	12.99	12.95	13.16	13.20	-	613.13	629.37	655.97	661.32	-
Conveyors and conveying equipment .....	3535	13.16	13.12	13.62	13.56	-	557.98	552.35	592.47	574.94	-
Industrial trucks and tractors .....	3537	12.06	12.14	12.27	12.42	-	477.58	500.17	509.21	507.98	-
Metalworking machinery .....	354	14.37	14.42	14.78	14.79	-	613.60	621.50	651.80	640.41	-
Machine tools, metal cutting types .....	3541	14.36	14.36	14.41	14.56	-	623.22	627.53	638.36	633.36	-
Machine tools, metal forming types .....	3542	14.74	14.87	15.12	15.23	-	638.24	640.90	662.28	671.64	-
Special dies, tools, jigs, and fixtures .....	3544	14.99	15.00	15.48	15.49	-	641.57	649.50	685.76	672.27	-
Machine tool accessories .....	3545	12.56	12.69	13.10	13.03	-	537.57	535.52	565.92	555.08	-
Power driven handtools .....	3546	12.11	12.20	12.14	12.16	-	498.93	497.76	502.60	505.86	-
Special industry machinery .....	355	14.11	14.05	14.59	14.67	-	586.98	590.10	631.75	623.48	-
Textile machinery .....	3552	12.18	12.18	12.67	12.84	-	493.29	515.21	533.41	529.01	-
Printing trades machinery .....	3555	15.67	15.39	15.56	15.36	-	639.34	629.45	642.63	640.51	-
Food products machinery .....	3556	13.84	13.71	14.14	14.46	-	581.28	584.05	598.12	594.31	-
General industrial machinery .....	356	13.22	13.40	13.70	13.62	-	560.53	574.86	590.47	577.49	-
Pumps and pumping equipment .....	3561	13.97	13.96	14.36	14.37	-	585.34	598.09	607.43	586.30	-
Ball and roller bearings .....	3562	14.00	14.60	14.97	14.74	-	606.20	643.86	649.70	623.50	-
Air and gas compressors .....	3563	13.75	13.77	14.33	14.52	-	588.50	585.23	619.06	618.55	-
Blowers and fans .....	3564	11.00	11.21	11.47	11.45	-	479.60	495.48	505.83	500.37	-
Speed changers, drives, and gears .....	3566	14.38	14.49	14.52	14.60	-	611.15	615.83	621.48	635.10	-
Power transmission equipment, nec .....	3568	13.00	12.86	13.27	12.92	-	543.40	529.83	567.96	534.89	-
Computer and office equipment .....	357	13.93	13.95	14.15	14.16	-	576.70	571.95	598.55	594.72	-
Electronic computers .....	3571	15.49	15.60	15.45	15.48	-	658.76	641.16	647.36	647.06	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	13.65	13.56	13.45	13.36	-	559.65	558.67	578.35	565.13	-
Refrigeration and service machinery .....	358	12.16	12.39	12.52	12.70	-	533.82	548.88	543.37	544.83	-
Refrigeration and heating equipment .....	3585	12.34	12.61	12.83	13.06	-	552.83	568.71	561.95	569.42	-
Misc. industrial and commercial machinery .....	359	13.10	13.15	13.55	13.58	-	554.13	558.88	582.85	575.79	-
Carburetors, pistons, rings, valves .....	3592	14.08	14.10	14.12	14.05	-	580.36	596.43	577.51	542.33	-
Scales, balances, and industrial machinery, nec .....	3598,9	12.86	12.92	13.37	13.42	-	545.26	548.52	573.57	570.35	-
<b>Electronic and other electrical equipment .....</b>	<b>36</b>	<b>12.26</b>	<b>12.28</b>	<b>12.59</b>	<b>12.70</b>	<b>12.71</b>	<b>497.76</b>	<b>510.85</b>	<b>528.78</b>	<b>524.51</b>	<b>532.55</b>
Electric distribution equipment .....	361	12.05	12.07	12.53	12.68	-	486.03	498.08	523.75	518.61	-
Transformers, except electronic .....	3612	11.11	11.31	11.59	11.70	-	441.07	462.58	490.28	488.72	-
Switchgear and switchboard apparatus .....	3613	12.99	12.84	13.44	13.81	-	538.49	530.29	556.42	548.48	-
Electrical industrial apparatus .....	362	11.53	11.56	12.10	12.13	-	477.34	482.05	504.57	493.69	-
Motors and generators .....	3621	10.89	10.88	11.26	11.31	-	455.20	459.14	471.79	459.19	-
Relays and industrial controls .....	3625	12.88	12.70	13.84	13.57	-	507.20	510.54	557.68	546.87	-
Household appliances .....	363	12.09	12.34	12.10	12.37	-	477.56	525.68	481.58	481.19	-
Household refrigerators and freezers .....	3632	14.02	14.01	13.01	13.14	-	572.02	580.01	490.46	530.88	-
Household laundry equipment .....	3633	13.98	14.27	14.35	14.88	-	524.25	674.97	569.70	586.42	-
Electric housewares and fans .....	3634	9.63	9.74	10.07	10.44	-	392.90	403.24	420.93	419.69	-
Electric lighting and wiring equipment .....	364	12.41	12.44	12.67	12.63	-	505.09	517.50	535.94	515.30	-
Electric lamps .....	3641	14.46	14.70	15.42	15.40	-	628.12	623.28	669.23	660.66	-
Current-carrying wiring devices .....	3643	12.57	12.49	12.89	13.13	-	504.06	514.59	536.22	533.08	-
Noncurrent-carrying wiring devices .....	3644	11.25	11.41	11.28	11.31	-	462.38	478.08	469.54	447.88	-
Residential lighting fixtures .....	3645	8.93	8.90	9.25	9.02	-	332.20	354.22	360.75	346.37	-
Household audio and video equipment .....	365	10.49	10.34	10.88	11.21	-	416.45	421.87	461.31	462.97	-
Household audio and video equipment .....	3651	10.72	10.54	10.61	10.77	-	433.09	431.09	445.62	441.57	-
Communications equipment .....	366	13.09	13.13	13.94	14.10	-	553.71	558.03	588.27	597.84	-
Telephone and telegraph apparatus .....	3661	14.49	14.48	15.45	15.58	-	634.66	629.88	682.89	694.87	-
Electronic components and accessories .....	367	12.09	12.03	12.29	12.51	-	482.39	489.82	521.10	524.17	-
Electron tubes .....	3671	13.82	13.79	14.61	14.61	-	530.69	539.19	581.48	581.48	-
Semiconductors and related devices .....	3674	15.38	15.49	15.58	15.96	-	612.12	616.50	673.06	694.26	-
Electronic components, nec .....	3679	10.08	10.07	10.36	10.39	-	405.22	411.86	438.23	424.95	-
Misc. electrical equipment and supplies .....	369	13.46	13.59	13.68	13.25	-	553.21	584.37	575.93	541.93	-
Storage batteries .....	3691	14.83	14.71	14.86	14.58	-	605.06	645.77	615.20	581.74	-
Engine electrical equipment .....	3694	13.85	14.08	13.81	12.99	-	580.32	609.66	595.21	535.19	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>a</sup>	Aug. 1997 <sup>a</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>a</sup>	Aug. 1997 <sup>a</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	42.7	44.3	44.6	42.3	44.3	4.7	6.1	6.2	5.0	-
Motor vehicles and equipment .....	371	43.4	45.5	45.3	42.0	44.9	4.8	6.8	6.6	4.7	-
Motor vehicles and car bodies .....	3711	44.2	45.9	46.4	43.5	-	4.6	6.8	6.7	4.7	-
Truck and bus bodies .....	3713	43.0	42.4	44.8	44.2	-	4.7	4.6	6.2	5.4	-
Motor vehicle parts and accessories .....	3714	43.1	46.0	45.1	40.9	-	5.2	7.4	6.9	4.8	-
Truck trailers .....	3715	41.4	41.1	42.2	44.1	-	2.9	3.2	4.3	4.2	-
Aircraft and parts .....	372	42.5	43.1	44.6	43.5	-	5.3	5.9	7.0	6.6	-
Aircraft .....	3721	40.4	41.7	44.4	41.6	-	4.5	5.2	7.1	6.5	-
Aircraft engines and engine parts .....	3724	45.5	43.9	44.5	46.3	-	6.2	6.5	6.3	6.3	-
Aircraft parts and equipment, nec .....	3728	43.1	44.4	44.9	44.1	-	5.9	6.3	7.3	6.9	-
Ship and boat building and repairing .....	373	40.3	42.4	41.9	42.0	-	3.5	4.6	3.9	3.7	-
Ship building and repairing .....	3731	41.8	44.2	43.4	43.7	-	4.0	5.6	4.6	4.6	-
Boat building and repairing .....	3732	38.0	39.5	39.7	39.4	-	2.6	3.1	2.8	2.5	-
Railroad equipment .....	374	44.7	44.6	43.6	44.2	-	4.7	5.1	3.9	3.8	-
Guided missiles, space vehicles, and parts .....	376	42.5	43.3	42.8	42.2	-	3.4	3.9	3.9	4.1	-
Guided missiles and space vehicles .....	3761	43.6	44.1	42.8	42.3	-	3.8	4.3	3.9	4.3	-
Misc. transportation equipment .....	379	38.0	38.3	39.6	39.0	-	3.0	2.8	3.1	3.4	-
Travel trailers and campers .....	3792	36.9	37.6	37.7	36.7	-	2.2	1.8	1.6	1.9	-
Instruments and related products .....	38	41.0	41.6	41.9	41.1	42.0	3.4	3.7	3.9	3.4	-
Search and navigation equipment .....	381	43.0	43.4	43.6	42.7	-	3.2	3.9	3.9	3.5	-
Measuring and controlling devices .....	382	40.9	41.8	41.6	41.1	-	2.9	3.2	3.4	3.0	-
Environmental controls .....	3822	39.9	42.0	41.2	39.2	-	3.1	3.8	3.2	2.9	-
Process control instruments .....	3823	42.1	42.4	41.4	41.4	-	3.5	3.7	3.3	2.9	-
Instruments to measure electricity .....	3825	40.0	41.2	41.3	41.2	-	2.0	2.4	3.3	2.8	-
Medical instruments and supplies .....	384	40.4	40.8	41.7	40.6	-	3.0	3.2	3.6	3.0	-
Surgical and medical instruments .....	3841	39.7	40.6	41.9	41.1	-	2.9	3.3	4.3	3.1	-
Surgical appliances and supplies .....	3842	40.2	40.5	41.0	39.9	-	3.5	3.3	3.0	2.9	-
Ophthalmic goods .....	385	39.7	40.5	40.4	39.6	-	1.8	2.4	2.6	2.4	-
Photographic equipment and supplies .....	386	42.5	42.5	43.5	43.0	-	8.0	7.9	7.7	7.3	-
Watches, clocks, watchcases, and parts .....	387	40.2	40.6	40.2	39.5	-	2.5	2.7	2.9	3.0	-
Miscellaneous manufacturing industries .....	39	38.8	39.8	40.1	39.5	40.2	2.7	3.2	2.9	2.8	-
Jewelry, silverware, and plated ware .....	391	38.2	39.3	39.2	39.3	-	2.4	2.9	1.7	1.4	-
Jewelry, precious metal .....	3911	37.5	38.5	38.6	38.9	-	2.2	2.4	1.5	1.4	-
Musical instruments .....	393	38.3	41.1	41.9	38.8	-	2.2	2.7	2.6	2.2	-
Toys and sporting goods .....	394	36.5	39.6	39.6	38.9	-	2.4	2.8	2.5	2.5	-
Dolls, games, toys, and children's vehicles .....	3942,4	37.0	39.3	39.1	38.0	-	1.7	2.5	2.0	2.0	-
Sporting and athletic goods, nec .....	3949	39.3	39.8	39.9	39.4	-	2.7	2.9	2.8	2.8	-
Pens, pencils, office, and art supplies .....	395	39.7	40.3	40.8	40.5	-	3.0	3.1	3.4	3.3	-
Costume jewelry and notions .....	396	38.7	39.9	39.9	38.6	-	1.9	2.7	2.8	2.3	-
Costume jewelry .....	3961	37.5	39.0	39.6	38.8	-	1.3	1.9	2.4	2.1	-
Miscellaneous manufactures .....	399	39.1	39.8	40.5	39.9	-	3.2	3.7	3.4	3.4	-
Signs and advertising specialties .....	3993	40.1	40.7	41.3	41.1	-	3.6	4.3	4.2	4.2	-
<b>Nondurable goods .....</b>		<b>40.2</b>	<b>40.9</b>	<b>40.7</b>	<b>40.4</b>	<b>41.0</b>	<b>4.1</b>	<b>4.4</b>	<b>4.1</b>	<b>4.3</b>	<b>4.7</b>
Food and kindred products .....	20	40.9	41.5	40.8	41.2	41.7	5.0	5.3	4.7	5.4	-
Meat products .....	201	40.4	40.6	39.9	40.1	-	4.2	4.3	4.1	4.6	-
Meat packing plants .....	2011	41.9	42.3	40.3	41.0	-	4.8	4.9	4.2	5.3	-
Sausages and other prepared meats .....	2013	42.6	41.9	41.1	41.8	-	5.7	5.4	5.3	6.1	-
Poultry slaughtering and processing .....	2015	38.8	39.1	39.3	38.9	-	3.4	3.6	3.7	3.6	-
Dairy products .....	202	42.3	41.8	42.6	42.8	-	5.4	5.1	5.3	5.5	-
Cheese, natural and processed .....	2022	41.3	41.2	42.2	42.1	-	4.9	4.9	4.8	4.4	-
Fluid milk .....	2026	42.2	42.1	41.7	42.3	-	5.0	5.0	4.6	5.0	-
Preserved fruits and vegetables .....	203	38.9	41.9	40.8	40.9	-	4.7	6.6	5.2	6.4	-
Canned specialties .....	2032	41.8	43.1	40.8	40.8	-	4.4	5.9	5.5	4.8	-
Canned fruits and vegetables .....	2033	39.1	43.9	39.8	41.9	-	5.4	8.5	5.0	8.1	-
Frozen fruits and vegetables .....	2037	37.4	37.9	40.2	38.9	-	3.6	4.2	4.9	5.3	-
Grain mill products .....	204	45.8	45.3	44.9	45.7	-	7.7	7.2	6.5	7.3	-
Flour and other grain mill products .....	2041	45.3	46.2	44.9	46.6	-	7.3	7.5	6.4	7.8	-
Prepared feeds, nec .....	2048	44.8	43.9	44.0	43.6	-	7.3	6.4	6.5	6.3	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$17.29	\$17.28	\$17.45	\$17.26	\$17.51	\$738.28	\$765.50	\$778.27	\$730.10	\$775.69
Motor vehicles and equipment .....	371	17.89	17.80	17.92	17.60	17.97	776.43	809.90	811.78	739.20	806.85
Motor vehicles and car bodies .....	3711	21.38	21.08	21.39	20.96	-	945.00	967.57	992.50	911.76	-
Truck and bus bodies .....	3713	14.64	14.61	14.84	14.64	-	629.52	619.46	664.83	647.09	-
Motor vehicle parts and accessories .....	3714	16.61	16.61	16.63	16.45	-	715.89	764.06	750.01	672.81	-
Truck trailers .....	3715	10.90	10.86	11.23	11.02	-	451.26	446.35	473.91	485.98	-
Aircraft and parts .....	372	18.66	18.70	18.80	18.85	-	793.05	805.97	838.48	819.98	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$18.49	\$18.52	\$18.37	\$18.45	-	\$841.30	\$813.03	\$817.47	\$854.24	-
Aircraft parts and equipment, nec .....	3728	16.55	16.48	16.69	16.73	-	713.31	731.71	749.38	737.79	-
Ship and boat building and repairing .....	373	12.88	13.11	13.12	13.18	-	519.06	555.86	549.73	553.56	-
Ship building and repairing .....	3731	14.22	14.54	14.56	14.59	-	594.40	642.67	631.90	637.58	-
Boat building and repairing .....	3732	10.52	10.57	10.88	10.94	-	399.76	417.52	431.94	431.04	-
Railroad equipment .....	374	16.53	16.61	16.52	16.76	-	738.89	740.81	720.27	740.79	-
Guided missiles, space vehicles, and parts .....	376	18.61	18.66	19.32	19.64	-	790.93	807.98	826.90	828.81	-
Guided missiles and space vehicles .....	3761	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Misc. transportation equipment .....	379	\$11.38	\$11.41	\$11.35	\$11.27	-	\$432.44	\$437.00	\$449.46	\$439.53	-
Travel trailers and campers .....	3792	11.36	11.31	11.33	10.89	-	419.18	425.26	427.14	399.66	-
<b>Instruments and related products</b> .....	<b>38</b>	<b>13.18</b>	<b>13.18</b>	<b>13.55</b>	<b>13.55</b>	<b>13.53</b>	<b>540.38</b>	<b>548.29</b>	<b>567.75</b>	<b>556.91</b>	<b>568.26</b>
Search and navigation equipment .....	381	16.70	16.69	16.88	16.91	-	718.10	724.35	735.97	722.06	-
Measuring and controlling devices .....	382	13.09	13.13	13.53	13.56	-	535.38	548.83	562.85	557.32	-
Environmental controls .....	3822	11.87	11.89	11.60	11.72	-	473.61	499.38	477.92	459.42	-
Process control instruments .....	3823	12.63	12.71	13.28	13.11	-	531.72	538.90	548.96	542.75	-
Instruments to measure electricity .....	3825	14.89	14.87	15.52	15.63	-	595.60	612.64	640.98	643.96	-
Medical instruments and supplies .....	384	12.05	12.06	12.60	12.52	-	486.82	492.05	525.42	508.31	-
Surgical and medical instruments .....	3841	11.43	11.50	12.09	11.87	-	453.77	466.90	506.57	487.86	-
Surgical appliances and supplies .....	3842	11.20	11.12	11.50	11.59	-	450.24	450.36	471.50	462.44	-
Ophthalmic goods .....	385	9.92	10.04	10.01	10.12	-	393.82	406.62	404.40	400.75	-
Photographic equipment and supplies .....	386	15.85	15.82	15.87	15.91	-	673.63	672.35	690.35	684.13	-
Watches, clocks, watchcases, and parts .....	387	9.85	9.57	9.95	10.02	-	395.97	388.54	399.99	395.79	-
<b>Miscellaneous manufacturing industries</b> .....	<b>39</b>	<b>10.37</b>	<b>10.37</b>	<b>10.50</b>	<b>10.52</b>	<b>10.59</b>	<b>402.36</b>	<b>412.73</b>	<b>421.05</b>	<b>415.54</b>	<b>425.72</b>
Jewelry, silverware, and plated ware .....	391	10.62	10.88	10.85	10.84	-	405.66	427.58	425.32	426.01	-
Jewelry, precious metal .....	3911	10.68	10.90	10.91	10.92	-	400.50	419.65	421.13	424.79	-
Musical instruments .....	393	10.42	10.57	10.59	10.73	-	399.09	434.43	443.72	416.32	-
Toys and sporting goods .....	394	9.90	9.82	9.95	9.98	-	381.15	388.87	394.02	388.22	-
Dolls, games, toys, and children's vehicles .....	3942,4	9.39	9.43	9.50	9.55	-	347.43	370.60	371.45	362.90	-
Sporting and athletic goods, nec .....	3949	10.15	10.04	10.18	10.19	-	398.90	399.59	406.18	401.49	-
Pens, pencils, office, and art supplies .....	395	11.04	10.80	11.05	11.18	-	438.29	435.24	450.84	452.79	-
Costume jewelry and notions .....	396	9.21	8.84	9.30	9.48	-	356.43	352.72	371.07	365.93	-
Costume jewelry .....	3961	8.03	7.49	8.32	8.41	-	301.13	292.11	329.47	326.31	-
Miscellaneous manufactures .....	399	10.66	10.75	10.81	10.77	-	416.81	427.85	437.81	429.72	-
Signs and advertising specialties .....	3993	10.98	11.31	11.27	11.28	-	440.30	460.32	465.45	463.61	-
<b>Nondurable goods</b> .....	<b>20</b>	<b>12.00</b>	<b>11.95</b>	<b>12.27</b>	<b>12.38</b>	<b>12.35</b>	<b>482.40</b>	<b>488.76</b>	<b>499.39</b>	<b>500.15</b>	<b>506.35</b>
Food and kindred products .....	20	11.25	11.16	11.45	11.53	11.51	460.13	463.14	467.16	475.04	479.97
Meat products .....	201	9.14	9.14	9.26	9.41	-	369.26	371.08	369.47	377.34	-
Meat packing plants .....	2011	9.80	9.79	9.89	10.08	-	410.62	414.12	398.57	413.28	-
Sausages and other prepared meats .....	2013	10.53	10.40	10.66	10.97	-	448.58	435.76	438.13	458.55	-
Poultry slaughtering and processing .....	2015	8.20	8.24	8.38	8.44	-	318.16	322.18	329.33	328.32	-
Dairy products .....	202	12.86	12.89	13.19	13.19	-	543.98	538.80	561.89	564.53	-
Cheese, natural and processed .....	2022	11.63	11.66	12.20	12.12	-	480.32	480.39	514.84	510.25	-
Fluid milk .....	2026	13.70	13.58	13.93	13.90	-	578.14	571.72	580.88	587.97	-
Preserved fruits and vegetables .....	203	10.82	10.69	10.88	11.10	-	420.90	447.91	443.90	453.99	-
Canned specialties .....	2032	14.14	13.73	14.16	14.60	-	591.05	591.76	577.73	595.68	-
Canned fruits and vegetables .....	2033	11.54	11.18	12.01	12.07	-	451.21	490.80	478.00	505.73	-
Frozen fruits and vegetables .....	2037	10.11	9.93	10.13	10.26	-	378.11	376.35	407.23	399.11	-
Grain mill products .....	204	13.95	13.94	14.10	14.32	-	638.91	631.48	633.09	654.42	-
Flour and other grain mill products .....	2041	11.90	12.06	12.50	12.52	-	539.07	557.17	561.25	583.43	-
Prepared feeds, nec .....	2048	11.01	11.09	11.19	11.25	-	493.25	486.85	492.36	490.50	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
<b>Food and kindred products—Continued</b>											
Bakery products .....	205	40.3	40.5	40.1	40.0	-	5.0	5.0	4.5	4.7	-
Bread, cake, and related products .....	2051	39.7	40.4	40.3	39.9	-	5.2	5.4	4.8	5.0	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	41.4	40.7	39.8	40.2	-	4.5	4.5	3.9	4.3	-
Sugar and confectionery products .....	206	38.6	40.2	39.5	39.2	-	3.5	3.9	3.3	3.7	-
Raw cane sugar .....	2061	41.0	44.1	40.1	42.4	-	4.7	6.2	3.4	3.9	-
Cane sugar refining .....	2062	47.7	47.0	46.4	46.3	-	12.0	11.5	8.9	9.6	-
Beet sugar .....	2063	41.6	43.8	42.2	42.1	-	2.4	4.4	2.2	2.9	-
Candy and other confectionery products .....	2064	37.1	38.8	38.4	37.9	-	2.9	3.2	2.9	3.3	-
Fats and oils .....	207	44.7	44.8	42.7	42.5	-	7.2	7.0	5.9	6.3	-
Beverages .....	208	43.9	42.7	44.3	44.6	-	6.3	5.5	6.0	6.7	-
Malt beverages .....	2082	47.9	46.6	46.7	47.2	-	8.0	7.3	8.9	8.2	-
Bottled and canned soft drinks .....	2086	42.9	41.5	43.8	45.5	-	6.6	5.3	6.1	7.7	-
Misc. food and kindred products .....	209	40.2	40.8	38.7	40.7	-	5.3	5.3	4.3	5.4	-
Tobacco products .....	21	38.6	40.0	39.2	35.0	38.2	5.7	5.5	2.4	2.9	-
Cigarettes .....	211	39.2	41.7	39.4	34.5	-	6.9	7.2	2.5	3.1	-
Textile mill products .....	22	40.2	41.3	41.7	40.6	41.7	4.2	4.6	4.7	4.4	-
Broadwoven fabric mills, cotton .....	221	41.5	43.4	42.5	41.8	-	6.0	6.7	5.8	5.8	-
Broadwoven fabric mills, synthetics .....	222	40.6	41.1	42.1	40.3	-	4.4	4.7	5.2	4.5	-
Broadwoven fabric mills, wool .....	223	38.9	38.8	42.2	41.1	-	4.6	4.2	5.7	5.8	-
Narrow fabric mills .....	224	38.3	39.8	41.2	39.7	-	2.5	3.0	3.5	2.8	-
Knitting mills .....	225	38.8	39.8	40.6	39.6	-	3.2	3.6	3.7	3.5	-
Women's hosiery, except socks .....	2251	37.4	40.0	38.0	37.2	-	2.3	3.5	2.1	2.2	-
Hosiery, nec .....	2252	36.4	37.9	38.6	37.8	-	2.6	2.8	3.2	3.2	-
Knit outerwear mills .....	2253	40.0	40.6	40.6	40.3	-	3.2	3.4	3.3	3.2	-
Knit underwear mills .....	2254	40.5	37.2	41.3	38.4	-	2.7	2.6	3.3	2.7	-
Weft knit fabric mills .....	2257	38.3	40.9	42.7	41.3	-	4.9	5.1	6.0	5.3	-
Textile finishing, except wool .....	226	41.9	42.6	42.8	41.7	-	4.5	5.3	5.4	5.1	-
Finishing plants, cotton .....	2261	43.5	43.5	43.0	42.0	-	4.5	5.4	5.7	5.6	-
Finishing plants, synthetics .....	2262	40.0	41.3	42.1	41.0	-	4.1	4.7	4.8	4.2	-
Carpets and rugs .....	227	41.8	43.0	41.3	40.8	-	5.3	5.7	4.9	4.6	-
Yarn and thread mills .....	228	40.1	41.5	41.9	40.8	-	4.1	4.5	4.7	4.4	-
Yarn spinning mills .....	2281	40.7	42.1	42.6	42.0	-	4.3	4.9	5.1	4.8	-
Throwing and winding mills .....	2282	37.2	38.4	38.5	35.9	-	3.5	3.3	3.0	2.6	-
Miscellaneous textile goods .....	229	40.3	41.2	42.8	41.4	-	3.9	4.2	5.1	4.7	-
Apparel and other textile products .....	23	36.8	37.7	37.8	36.6	37.5	1.9	2.2	2.2	2.0	-
Men's and boys' suits and coats .....	231	36.7	36.9	37.7	37.5	-	1.1	1.5	1.2	1.3	-
Men's and boys' furnishings .....	232	36.5	37.3	37.1	35.3	-	1.4	1.6	1.5	1.4	-
Men's and boys' shirts .....	2321	35.1	36.2	36.0	34.0	-	1.0	1.4	1.4	1.3	-
Men's and boys' trousers and slacks .....	2325	36.9	36.6	36.7	34.7	-	1.6	1.4	1.2	1.4	-
Men's and boys' work clothing .....	2326	36.5	37.7	38.0	36.7	-	1.2	1.4	1.8	1.6	-
Women's and misses' outerwear .....	233	35.4	36.1	36.4	35.6	-	1.5	1.7	1.6	1.7	-
Women's and misses' blouses and shirts .....	2331	35.8	35.3	36.6	35.5	-	1.2	1.2	1.5	1.7	-
Women's, juniors', and misses' dresses .....	2335	37.1	38.0	37.2	37.2	-	2.0	2.2	2.4	2.1	-
Women's and misses' suits and coats .....	2337	35.4	36.7	36.3	36.6	-	1.8	2.3	2.1	2.0	-
Women's and misses' outerwear, nec .....	2339	34.9	35.7	36.2	35.1	-	1.4	1.6	1.4	1.6	-
Women's and children's undergarments .....	234	36.8	37.7	37.5	36.7	-	2.1	2.1	2.1	2.1	-
Women's and children's underwear .....	2341	36.9	37.4	37.4	36.7	-	1.7	2.0	1.8	1.7	-
Brassieres, girdles, and allied garments .....	2342	36.6	38.5	37.8	36.8	-	3.2	2.7	2.8	3.4	-
Girls' and children's outerwear .....	236	37.9	36.9	37.3	36.7	-	3.1	2.3	2.6	2.8	-
Girls' and children's dresses and blouses .....	2361	36.1	36.5	37.4	36.4	-	2.4	1.9	3.2	2.8	-
Misc. apparel and accessories .....	236	37.2	38.3	37.6	36.9	-	1.1	1.7	1.7	1.2	-
Misc. fabricated textile products .....	239	38.6	40.1	40.0	38.6	-	3.0	3.6	3.9	3.0	-
Curtains and draperies .....	2391	36.1	37.8	37.0	36.4	-	1.3	1.9	1.3	.9	-
House furnishings, nec .....	2392	39.1	40.5	39.2	39.7	-	3.5	3.9	3.8	4.0	-
Automotive and apparel trimmings .....	2396	38.6	40.9	41.2	37.9	-	2.8	4.2	4.9	2.2	-
Paper and allied products .....	26	43.2	43.4	43.4	43.3	43.4	5.7	5.8	5.4	5.9	-
Paper mills .....	262	44.7	44.5	44.7	44.7	-	6.5	6.3	6.3	6.8	-
Paperboard mills .....	263	44.0	44.6	44.9	44.8	-	7.1	7.4	6.7	7.4	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Food and kindred products—Continued</b>											
Bakery products .....	205	\$12.27	\$12.13	\$12.45	\$12.48	-	\$494.48	\$491.27	\$499.25	\$499.20	-
Bread, cake, and related products .....	2051	12.45	12.27	12.57	12.70	-	494.27	495.71	506.57	506.73	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	11.96	11.88	12.24	12.08	-	495.14	483.52	487.15	485.62	-
Sugar and confectionery products .....	206	12.60	12.32	13.06	13.26	-	486.36	495.26	515.87	519.79	-
Raw cane sugar .....	2061	11.88	11.63	11.87	11.31	-	487.08	512.88	475.99	479.54	-
Cane sugar refining .....	2062	17.71	17.66	17.87	17.63	-	844.77	830.02	819.89	816.27	-
Beet sugar .....	2063	13.99	14.41	13.91	14.01	-	581.98	631.16	587.00	589.82	-
Candy and other confectionery products .....	2064	11.52	11.16	12.17	12.48	-	427.39	433.01	467.33	472.99	-
Fats and oils .....	207	12.23	12.13	12.75	12.92	-	546.68	543.42	544.43	549.10	-
Beverages .....	208	15.84	15.73	16.04	16.02	-	695.38	671.67	710.57	714.49	-
Malt beverages .....	2082	20.95	21.26	22.08	22.06	-	1,003.51	990.72	1,075.30	1,041.23	-
Bottled and canned soft drinks .....	2086	13.01	12.96	13.33	13.42	-	558.13	537.84	583.85	610.61	-
Misc. food and kindred products .....	209	10.00	10.05	10.16	10.10	-	402.00	410.04	393.19	411.07	-
Tobacco products .....	21	20.98	20.27	21.10	21.08	\$20.54	809.83	810.80	827.12	737.80	\$784.63
Cigarettes .....	211	24.36	25.34	24.82	24.92	-	954.91	1,056.68	977.91	859.74	-
Textile mill products .....	22	9.68	9.72	9.97	10.02	10.03	389.14	401.44	415.75	406.81	418.25
Broadwoven fabric mills, cotton .....	221	10.09	10.09	10.38	10.52	-	418.74	437.91	441.15	439.74	-
Broadwoven fabric mills, synthetics .....	222	10.72	10.68	10.96	10.95	-	435.23	438.95	461.42	441.29	-
Broadwoven fabric mills, wool .....	223	10.04	9.98	10.55	10.64	-	390.56	387.22	445.21	437.30	-
Narrow fabric mills .....	224	9.03	9.10	9.11	9.06	-	345.85	362.18	375.33	359.68	-
Knitting mills .....	225	8.84	8.91	9.08	9.11	-	342.99	354.62	368.65	360.76	-
Women's hosiery, except socks .....	2251	8.13	8.37	8.57	8.47	-	304.06	334.80	325.66	315.08	-
Hosiery, nec .....	2252	8.75	8.79	9.03	9.11	-	318.50	333.14	348.56	344.36	-
Knit outerwear mills .....	2253	8.24	8.26	8.50	8.50	-	329.60	335.96	345.10	342.55	-
Knit underwear mills .....	2254	8.85	8.86	9.12	9.14	-	358.43	329.59	376.66	350.98	-
Weft knit fabric mills .....	2257	9.81	9.82	10.06	10.08	-	375.72	401.84	429.56	416.30	-
Textile finishing, except wool .....	226	9.87	9.92	10.25	10.27	-	413.55	422.59	438.70	428.26	-
Finishing plants, cotton .....	2261	9.76	9.86	10.12	10.18	-	424.56	428.91	435.16	427.56	-
Finishing plants, synthetics .....	2262	10.30	10.29	10.82	10.72	-	412.00	424.98	455.52	439.52	-
Carpets and rugs .....	227	9.84	9.81	9.94	10.03	-	411.31	421.83	410.52	409.22	-
Yarn and thread mills .....	228	9.39	9.44	9.69	9.77	-	376.54	391.76	406.01	398.62	-
Yarn spinning mills .....	2281	9.36	9.43	9.69	9.76	-	380.95	397.00	412.79	409.92	-
Throwing and winding mills .....	2282	9.77	9.66	9.87	9.78	-	363.44	370.94	380.00	351.10	-
Miscellaneous textile goods .....	229	10.95	11.05	11.51	11.61	-	441.29	455.26	492.63	480.65	-
Apparel and other textile products .....	23	7.95	7.94	8.25	8.21	8.24	292.56	299.34	311.85	300.49	309.00
Men's and boys' suits and coats .....	231	8.27	8.19	8.39	8.45	-	303.51	302.21	316.30	316.88	-
Men's and boys' furnishings .....	232	7.42	7.39	7.68	7.71	-	270.83	275.65	284.93	272.16	-
Men's and boys' shirts .....	2321	7.21	7.22	7.49	7.57	-	253.07	261.36	269.64	257.38	-
Men's and boys' trousers and slacks .....	2325	7.52	7.42	7.77	7.93	-	277.49	271.57	285.16	275.17	-
Men's and boys' work clothing .....	2326	7.49	7.42	7.67	7.39	-	273.39	279.73	291.46	271.21	-
Women's and misses' outerwear .....	233	7.46	7.45	7.79	7.77	-	264.08	268.95	283.56	276.61	-
Women's and misses' blouses and shirts .....	2331	6.54	6.56	6.99	6.97	-	234.13	231.57	255.83	247.44	-
Women's, juniors', and misses' dresses .....	2335	8.35	8.39	8.78	8.62	-	309.79	318.82	326.62	320.66	-
Women's and misses' suits and coats .....	2337	7.89	7.93	8.10	7.99	-	279.31	291.03	294.03	292.43	-
Women's and misses' outerwear, nec .....	2339	7.31	7.27	7.63	7.64	-	255.12	259.54	276.21	268.16	-
Women's and children's undergarments .....	234	7.52	7.53	7.80	7.86	-	276.74	283.86	292.50	288.46	-
Women's and children's underwear .....	2341	7.33	7.39	7.70	7.78	-	270.48	276.39	287.98	285.53	-
Brassieres, girdles, and allied garments .....	2342	8.11	7.97	8.09	8.09	-	296.83	306.85	305.80	297.71	-
Girls' and children's outerwear .....	236	7.11	7.07	7.52	7.62	-	269.47	260.88	280.50	279.65	-
Girls' and children's dresses and blouses .....	2361	7.13	6.97	7.41	7.43	-	257.39	254.41	277.13	270.45	-
Misc. apparel and accessories .....	238	7.27	7.35	7.76	7.72	-	270.44	281.51	291.78	284.87	-
Misc. fabricated textile products .....	239	9.24	9.21	9.43	9.22	-	356.66	369.32	377.20	355.89	-
Curtains and draperies .....	2391	7.43	7.41	8.07	8.10	-	268.22	280.10	298.59	294.84	-
House furnishings, nec .....	2392	8.46	8.38	8.76	8.81	-	330.79	339.39	343.39	349.76	-
Automotive and apparel trimmings .....	2396	11.83	11.86	11.40	10.88	-	456.64	485.07	469.68	412.35	-
Paper and allied products .....	26	14.79	14.69	14.99	15.18	15.17	638.93	637.55	650.57	657.29	658.38
Paper mills .....	262	18.70	18.53	19.03	19.27	-	835.89	824.59	850.64	861.37	-
Paperboard mills .....	263	18.56	18.43	18.44	18.66	-	816.64	821.98	827.96	835.97	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
<b>Paper and allied products—Continued</b>											
Paperboard containers and boxes .....	265	43.1	43.8	43.2	43.0	-	5.8	6.1	5.3	5.9	-
Corrugated and solid fiber boxes .....	2653	43.5	44.1	43.5	43.4	-	6.2	6.4	5.6	6.4	-
Sanitary food containers .....	2656	42.9	42.9	42.6	43.2	-	5.7	5.4	5.2	5.6	-
Folding paperboard boxes .....	2657	43.2	43.8	43.6	42.8	-	5.9	6.4	5.6	5.7	-
Misc. converted paper products .....	267	41.9	41.9	42.3	42.3	-	4.8	4.7	4.5	5.0	-
Paper, coated and laminated, nec .....	2672	43.4	43.5	43.5	43.4	-	4.5	4.3	4.3	4.6	-
Bags: plastics, laminated, and coated .....	2673	42.0	42.2	42.2	42.5	-	5.3	5.3	4.8	5.4	-
Envelopes .....	2677	41.2	41.9	41.5	40.9	-	4.2	4.5	3.7	3.8	-
Printing and publishing .....	27	38.0	38.6	38.0	38.1	38.6	2.9	3.4	2.9	3.1	-
Newspapers .....	271	32.8	33.1	33.0	33.0	-	1.2	1.3	1.4	1.2	-
Periodicals .....	272	36.0	36.7	36.8	36.4	-	2.0	3.4	2.5	2.7	-
Books .....	273	39.3	40.4	38.4	38.9	-	3.4	3.8	2.9	3.8	-
Book publishing .....	2731	37.6	37.9	36.9	36.2	-	1.5	1.8	1.8	2.0	-
Book printing .....	2732	41.2	43.1	40.1	42.2	-	5.5	5.9	4.2	6.0	-
Miscellaneous publishing .....	274	35.9	35.9	35.9	36.1	-	2.2	1.8	2.1	2.1	-
Commercial printing .....	275	39.4	40.2	39.4	39.6	-	3.5	4.2	3.5	3.8	-
Commercial printing, lithographic .....	2752	38.9	39.8	39.1	39.4	-	3.4	4.0	3.3	3.7	-
Commercial printing, nec .....	2759	39.8	40.2	39.7	39.8	-	3.6	3.9	3.7	3.8	-
Manifold business forms .....	276	41.2	41.1	41.5	41.6	-	4.0	4.2	3.6	3.9	-
Blankbooks and bookbinding .....	278	39.7	40.1	39.5	39.5	-	3.0	3.1	2.9	2.6	-
Printing trade services .....	279	38.7	39.1	39.6	39.8	-	3.7	4.2	4.1	4.3	-
Chemicals and allied products .....	28	42.9	42.9	43.1	42.7	43.1	4.8	4.9	5.0	5.0	-
Industrial inorganic chemicals .....	281	45.9	45.6	46.2	46.1	-	5.9	5.6	5.9	6.1	-
Industrial inorganic chemicals, nec .....	2819	46.3	46.0	46.2	45.7	-	6.2	5.9	5.7	5.8	-
Plastics materials and synthetics .....	282	43.9	44.3	43.5	43.3	-	5.6	5.8	5.4	5.5	-
Plastics materials and resins .....	2821	44.6	44.5	44.8	44.3	-	5.9	5.9	5.4	5.6	-
Organic fibers, noncellulosic .....	2824	44.9	45.8	42.1	42.5	-	5.4	5.9	5.0	5.2	-
Drugs .....	283	41.6	41.2	41.2	40.7	-	3.9	4.1	4.5	4.3	-
Pharmaceutical preparations .....	2834	41.4	41.6	41.3	40.8	-	3.7	4.0	4.2	4.1	-
Soap, cleaners, and toilet goods .....	284	40.3	40.5	41.3	40.5	-	3.2	3.6	3.2	3.3	-
Soap and other detergents .....	2841	42.3	42.0	42.5	43.1	-	4.0	4.4	4.0	4.3	-
Polishing, sanitation, and finishing preparations .....	2842,3	40.1	40.5	41.8	41.9	-	3.3	3.1	3.7	3.8	-
Toilet preparations .....	2844	39.5	39.9	40.6	38.8	-	2.8	3.4	2.6	2.7	-
Paints and allied products .....	285	42.6	42.3	42.9	42.4	-	4.6	4.4	5.0	5.2	-
Industrial organic chemicals .....	286	43.7	44.3	44.6	44.1	-	6.0	6.0	6.3	6.2	-
Cyclic crudes and intermediates .....	2865	44.2	45.4	46.5	44.4	-	6.2	6.3	7.9	6.2	-
Industrial organic chemicals, nec .....	2869	43.6	44.0	44.1	44.0	-	6.0	5.9	5.9	6.2	-
Agricultural chemicals .....	287	44.8	44.1	44.5	44.6	-	5.5	5.4	5.9	5.9	-
Miscellaneous chemical products .....	289	42.6	43.3	43.7	42.9	-	4.8	5.1	5.0	4.7	-
Petroleum and coal products .....	29	44.3	43.9	42.9	42.8	42.8	6.4	6.8	6.1	6.3	-
Petroleum refining .....	291	43.7	42.8	42.4	42.0	-	5.0	5.4	5.1	5.1	-
Asphalt paving and roofing materials .....	295	46.6	47.2	45.0	45.8	-	10.8	11.3	9.6	10.3	-
Rubber and misc. plastics products .....	30	40.8	41.6	41.7	41.0	41.7	4.1	4.4	4.4	4.2	-
Tires and inner tubes .....	301	41.0	43.4	43.2	43.5	-	5.0	5.5	5.8	6.4	-
Rubber and plastics footwear .....	302	40.4	39.8	41.4	41.6	-	3.6	-	2.5	2.9	-
Hose, belting, gaskets, and packing .....	305	41.1	41.9	42.5	41.5	-	4.1	4.3	4.8	4.8	-
Rubber and plastics hose and belting .....	3052	42.2	43.4	43.9	42.3	-	4.6	4.8	5.3	5.6	-
Fabricated rubber products, nec .....	306	40.3	42.3	42.4	41.1	-	3.4	4.3	4.5	3.9	-
Miscellaneous plastics products, nec .....	308	40.8	41.3	41.4	40.6	-	4.1	4.3	4.2	4.0	-
Leather and leather products .....	31	37.7	38.9	38.8	37.7	38.7	1.6	2.1	2.0	1.9	-
Leather tanning and finishing .....	311	40.7	44.7	42.4	38.5	-	5.6	6.6	4.8	4.2	-
Footwear, except rubber .....	314	37.5	37.8	38.1	37.1	-	.8	1.3	1.5	1.1	-
Men's footwear, except athletic .....	3143	37.5	37.2	38.4	37.4	-	.8	1.4	1.5	.9	-
Women's footwear, except athletic .....	3144	39.3	39.6	38.1	38.0	-	.4	1.2	1.3	1.2	-
Luggage .....	316	34.7	38.6	38.2	40.9	-	.7	2.3	1.8	3.5	-
Handbags and personal leather goods .....	317	38.1	38.2	38.0	37.3	-	1.6	1.8	1.5	1.0	-
<b>Service-producing .....</b>		<b>32.9</b>	<b>33.0</b>	<b>33.1</b>	<b>33.1</b>	<b>33.3</b>	-	-	-	-	-
<b>Transportation and public utilities .....</b>		<b>39.7</b>	<b>40.0</b>	<b>39.8</b>	<b>39.5</b>	<b>40.4</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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>p</sup>	Aug. 1997 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	\$12.53	\$12.53	\$12.77	\$12.97	-	\$540.04	\$548.81	\$551.66	\$557.71	-
Corrugated and solid fiber boxes .....	2653	12.50	12.52	12.72	12.92	-	543.75	552.13	553.32	560.73	-
Sanitary food containers .....	2656	12.56	12.57	12.81	12.99	-	538.82	539.25	545.71	561.17	-
Folding paperboard boxes .....	2657	13.18	13.21	13.53	13.76	-	569.38	578.60	589.91	588.93	-
Misc. converted paper products .....	267	12.84	12.80	13.06	13.16	-	538.00	536.32	552.44	556.67	-
Paper, coated and laminated, nec .....	2672	14.87	14.88	14.81	14.93	-	645.36	647.28	644.24	647.96	-
Bags: plastics, laminated, and coated .....	2673	11.71	11.65	11.64	11.86	-	491.82	491.63	491.21	504.05	-
Envelopes .....	2677	11.87	11.90	11.83	11.92	-	489.04	498.61	490.95	487.53	-
Printing and publishing .....	27	12.63	12.70	12.90	13.02	\$13.09	479.94	490.22	490.20	496.06	\$505.27
Newspapers .....	271	12.53	12.52	12.89	12.92	-	410.98	414.41	425.37	426.36	-
Periodicals .....	272	13.73	13.94	14.31	14.27	-	494.28	511.60	526.61	519.43	-
Books .....	273	12.01	12.09	12.09	12.28	-	471.99	488.44	464.26	477.69	-
Book publishing .....	2731	11.43	11.43	11.42	11.55	-	429.77	433.20	421.40	418.11	-
Book printing .....	2732	12.61	12.74	12.83	13.02	-	519.53	549.09	514.48	549.44	-
Miscellaneous publishing .....	274	12.32	12.29	12.68	12.89	-	442.29	441.21	455.21	465.33	-
Commercial printing .....	275	12.83	12.92	13.05	13.24	-	505.50	519.38	514.17	524.30	-
Commercial printing, lithographic .....	2752	13.05	13.15	13.33	13.52	-	507.65	523.37	521.20	532.69	-
Commercial printing, nec .....	2759	12.29	12.29	12.28	12.54	-	489.14	494.06	487.52	499.09	-
Manifold business forms .....	276	13.45	13.58	13.76	13.93	-	554.14	558.14	571.04	579.49	-
Blankbooks and bookbinding .....	278	9.95	9.93	10.16	10.15	-	395.02	398.19	401.32	400.93	-
Printing trade services .....	279	15.51	15.67	16.10	16.09	-	600.24	612.70	637.56	640.38	-
Chemicals and allied products .....	28	16.16	16.22	16.54	16.60	16.56	693.26	695.84	712.87	708.82	713.74
Industrial inorganic chemicals .....	281	18.07	18.23	18.38	18.66	-	829.41	831.29	849.16	860.23	-
Industrial inorganic chemicals, nec .....	2819	18.39	18.71	18.61	18.97	-	851.46	860.66	859.78	866.93	-
Plastics materials and synthetics .....	282	16.85	17.02	17.25	17.28	-	739.72	753.99	750.38	748.22	-
Plastics materials and resins .....	2821	18.31	18.56	19.15	19.22	-	816.63	825.92	857.92	851.45	-
Organic fibers, noncellulosic .....	2824	14.77	15.00	14.94	14.87	-	663.17	687.00	628.97	631.98	-
Drugs .....	283	15.81	15.96	16.62	16.36	-	657.70	657.55	684.74	665.85	-
Pharmaceutical preparations .....	2834	15.63	15.79	16.52	16.11	-	647.08	656.86	682.28	657.29	-
Soap, cleaners, and toilet goods .....	284	12.70	12.84	13.04	13.25	-	511.81	520.02	538.55	536.63	-
Soap and other detergents .....	2841	15.96	16.16	16.49	16.57	-	675.11	678.72	700.83	714.17	-
Polishing, sanitation, and finishing preparations .....	2842,3	12.22	12.25	12.60	12.62	-	490.02	496.13	526.68	528.78	-
Toilet preparations .....	2844	11.35	11.51	11.68	11.97	-	448.33	459.25	474.21	464.44	-
Paints and allied products .....	285	13.50	13.45	14.14	14.08	-	575.10	568.94	606.61	596.99	-
Industrial organic chemicals .....	286	19.70	19.57	19.93	19.95	-	860.89	866.95	888.88	879.80	-
Cyclic crudes and intermediates .....	2865	19.93	19.70	20.25	20.56	-	880.91	894.38	941.63	912.86	-
Industrial organic chemicals, nec .....	2869	19.78	19.68	19.99	19.93	-	862.41	865.92	881.56	876.92	-
Agricultural chemicals .....	287	16.22	16.22	16.41	16.67	-	726.66	715.30	730.25	743.48	-
Miscellaneous chemical products .....	289	14.99	14.92	14.99	15.19	-	638.57	646.04	655.06	651.65	-
Petroleum and coal products .....	29	19.02	18.98	19.94	20.03	19.75	842.59	833.22	855.43	857.28	845.30
Petroleum refining .....	291	21.11	21.09	22.39	22.57	-	922.51	902.65	949.34	947.94	-
Asphalt paving and roofing materials .....	295	14.90	14.99	14.82	14.97	-	694.34	707.53	666.90	685.63	-
Rubber and misc. plastics products .....	30	11.25	11.23	11.53	11.58	11.60	459.00	467.17	480.80	474.78	483.72
Tires and inner tubes .....	301	18.04	17.96	18.69	18.46	-	739.64	779.46	807.41	803.01	-
Rubber and plastics footwear .....	302	8.92	9.24	9.55	9.43	-	360.37	367.75	395.37	392.29	-
Hose, belting, gaskets, and packing .....	305	11.51	11.50	11.66	11.64	-	473.06	481.85	495.55	483.06	-
Rubber and plastics hose and belting .....	3052	11.77	11.62	11.83	11.93	-	496.69	504.31	519.34	504.64	-
Fabricated rubber products, nec .....	306	10.75	10.75	11.15	11.24	-	433.23	454.73	472.76	461.96	-
Miscellaneous plastics products, nec .....	308	10.61	10.57	10.84	10.89	-	432.89	436.54	448.78	442.13	-
Leather and leather products .....	31	8.43	8.62	8.91	8.74	8.88	317.81	335.32	345.71	329.50	343.66
Leather tanning and finishing .....	311	11.46	11.74	11.83	11.82	-	466.42	524.78	501.59	455.07	-
Footwear, except rubber .....	314	7.95	8.10	8.41	8.24	-	298.13	306.18	320.42	305.70	-
Men's footwear, except athletic .....	3143	8.68	8.93	9.16	8.88	-	325.50	332.20	351.74	332.11	-
Women's footwear, except athletic .....	3144	6.95	7.07	7.33	7.35	-	273.14	279.97	279.27	279.30	-
Luggage .....	316	8.43	8.69	8.82	8.98	-	292.52	335.43	336.92	367.28	-
Handbags and personal leather goods .....	317	7.55	7.54	7.83	7.76	-	287.66	288.03	297.54	289.45	-
Service-producing .....		11.12	11.15	11.60	11.56	\$11.59	365.85	367.95	383.96	382.64	\$385.95
Transportation and public utilities .....		14.44	14.48	14.78	14.95	14.94	573.27	579.20	588.24	590.53	603.58

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	48.0	48.2	49.4	49.4	-	-	-	-	-	-
Local and interurban passenger transit .....	41	35.6	35.5	34.4	35.2	-	-	-	-	-	-
Local and suburban transportation .....	411	38.5	38.8	38.5	38.1	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	38.3	38.3	38.4	38.6	-	-	-	-	-	-
Trucking and warehousing .....	42	39.9	40.4	40.7	40.3	-	-	-	-	-	-
Trucking and courier services, except air .....	421	39.9	40.5	40.7	40.4	-	-	-	-	-	-
Public warehousing and storage .....	422	38.9	38.9	40.1	39.8	-	-	-	-	-	-
Water transportation:											
Water transportation services .....	449	37.1	37.9	38.3	38.2	-	-	-	-	-	-
Pipelines, except natural gas .....	46	43.6	44.5	44.1	43.2	-	-	-	-	-	-
Transportation services .....	47	37.7	37.8	38.6	37.6	-	-	-	-	-	-
Passenger transportation arrangement .....	472	37.1	36.9	38.1	37.0	-	-	-	-	-	-
Travel agencies .....	4724	36.7	36.4	38.2	36.8	-	-	-	-	-	-
Freight transportation arrangement .....	473	38.8	39.2	39.3	37.9	-	-	-	-	-	-
Communications .....	48	40.9	40.9	40.4	40.4	-	-	-	-	-	-
Telephone communications .....	481	42.9	42.8	42.0	42.2	-	-	-	-	-	-
Telephone communications, except radio .....	4813	43.6	43.5	42.3	42.8	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.1	35.3	35.8	35.2	-	-	-	-	-	-
Cable and other pay television services .....	484	39.9	39.9	39.2	39.4	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	41.9	41.9	42.2	42.0	-	-	-	-	-	-
Electric services .....	491	41.8	41.7	42.2	41.9	-	-	-	-	-	-
Gas production and distribution .....	492	41.7	42.2	42.2	42.2	-	-	-	-	-	-
Combination utility services .....	493	41.9	41.7	42.5	42.6	-	-	-	-	-	-
Sanitary services .....	495	42.7	42.6	42.0	42.0	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>38.1</b>	<b>38.4</b>	<b>38.7</b>	<b>38.4</b>	<b>38.5</b>	-	-	-	-	-
Durable goods .....	50	38.7	39.1	39.4	39.0	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	37.9	38.0	38.1	37.8	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.3	37.7	37.5	37.4	-	-	-	-	-	-
Lumber and other construction materials .....	503	40.3	40.6	40.4	40.3	-	-	-	-	-	-
Professional and commercial equipment .....	504	38.6	39.2	40.2	39.4	-	-	-	-	-	-
Medical and hospital equipment .....	5047	38.8	39.2	40.0	39.2	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.4	41.5	42.2	41.5	-	-	-	-	-	-
Electrical goods .....	506	38.8	39.1	39.2	38.7	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.6	39.0	39.5	39.2	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	38.1	39.3	39.7	39.1	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	37.9	38.2	38.2	37.9	-	-	-	-	-	-
Nondurable goods .....	51	37.3	37.4	37.7	37.5	-	-	-	-	-	-
Paper and paper products .....	511	36.5	36.8	36.5	36.4	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	35.8	35.8	36.4	35.6	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.1	37.2	37.0	36.6	-	-	-	-	-	-
Groceries and related products .....	514	38.4	38.4	38.7	38.8	-	-	-	-	-	-
Farm-product raw materials .....	515	35.2	35.3	35.4	35.3	-	-	-	-	-	-
Chemicals and allied products .....	516	39.4	40.1	40.5	39.8	-	-	-	-	-	-
Petroleum and petroleum products .....	517	37.5	37.4	38.2	37.9	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	38.0	37.7	38.0	38.1	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	36.4	36.4	37.0	36.5	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>29.4</b>	<b>29.5</b>	<b>29.4</b>	<b>29.6</b>	<b>29.8</b>	-	-	-	-	-
Building materials and garden supplies .....	52	35.9	35.7	35.6	35.7	-	-	-	-	-	-
Lumber and other building materials .....	521	37.4	37.1	37.0	37.2	-	-	-	-	-	-
Paint, glass, and wallpaper stores .....	523	36.5	36.8	36.3	36.3	-	-	-	-	-	-
Hardware stores .....	525	32.5	32.4	31.9	31.9	-	-	-	-	-	-
Retail nurseries and garden stores .....	526	32.4	31.9	32.5	32.2	-	-	-	-	-	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Railroad transportation:											
Class I railroads plus Amtrak <sup>3</sup> .....	4011	\$17.67	\$17.84	\$17.90	\$17.78	-	\$848.16	\$859.89	\$884.26	\$878.33	-
Local and interurban passenger transit .....	41	10.86	10.94	10.85	11.08	-	386.62	388.37	373.24	390.02	-
Local and suburban transportation .....	411	11.39	11.41	11.19	11.41	-	436.52	442.71	430.82	434.72	-
Intercity and rural bus transportation .....	413	13.08	13.21	13.93	14.05	-	500.96	505.94	534.91	542.33	-
Trucking and warehousing .....	42	12.85	12.96	13.12	13.15	-	512.72	523.58	533.98	529.95	-
Trucking and courier services, except air .....	421	13.04	13.16	13.33	13.33	-	520.30	532.98	542.53	538.53	-
Public warehousing and storage .....	422	10.62	10.68	10.89	11.08	-	413.12	415.45	436.69	440.98	-
Water transportation:											
Water transportation services .....	449	18.46	17.39	18.31	18.99	-	684.87	659.08	701.27	725.42	-
Pipelines, except natural gas .....	46	20.36	20.01	20.27	20.05	-	887.70	890.45	893.91	866.16	-
Transportation services .....	47	12.68	12.83	13.15	13.26	-	478.04	484.97	507.59	498.58	-
Passenger transportation arrangement .....	472	12.52	12.82	13.34	13.49	-	464.49	473.06	508.25	499.13	-
Travel agencies .....	4724	12.84	13.17	13.62	13.82	-	471.23	479.39	520.28	508.58	-
Freight transportation arrangement .....	473	13.35	13.31	13.23	13.30	-	517.98	521.75	519.94	504.07	-
Communications .....	48	15.97	16.09	16.87	17.01	-	653.17	658.08	681.55	687.20	-
Telephone communications .....	481	16.55	16.77	17.48	17.59	-	710.00	717.76	734.16	742.30	-
Telephone communications, except radio .....	4813	16.92	17.19	18.00	18.11	-	737.71	747.77	781.40	775.11	-
Radio and television broadcasting .....	483	16.09	15.87	17.07	17.21	-	564.76	560.21	611.11	605.79	-
Cable and other pay television services .....	484	12.68	12.89	13.44	13.71	-	505.93	506.33	526.85	540.17	-
Electric, gas, and sanitary services .....	49	18.04	18.16	19.07	19.13	-	755.88	760.90	804.75	803.46	-
Electric services .....	491	19.04	19.14	19.99	20.03	-	795.87	798.14	843.58	839.26	-
Gas production and distribution .....	492	17.27	17.32	17.93	17.83	-	720.16	730.90	756.65	743.99	-
Combination utility services .....	493	21.82	22.06	23.11	23.56	-	914.28	919.90	982.18	1,003.66	-
Sanitary services .....	495	13.37	13.52	14.74	14.80	-	570.90	575.95	619.08	621.60	-
<b>Wholesale trade .....</b>		<b>12.82</b>	<b>12.85</b>	<b>13.36</b>	<b>13.36</b>	<b>\$13.45</b>	<b>488.44</b>	<b>493.44</b>	<b>517.03</b>	<b>513.02</b>	<b>\$517.83</b>
Durable goods .....	50	13.36	13.38	13.89	13.92	-	517.03	523.16	547.27	542.88	-
Motor vehicles, parts, and supplies .....	501	11.69	11.71	12.04	12.10	-	443.05	444.98	458.72	457.38	-
Furniture and home furnishings .....	502	11.84	11.87	12.44	12.44	-	441.63	447.50	466.50	465.26	-
Lumber and other construction materials .....	503	12.04	12.16	12.65	12.79	-	485.21	493.70	511.06	515.44	-
Professional and commercial equipment .....	504	16.08	16.03	16.44	16.43	-	620.89	628.38	660.89	647.34	-
Medical and hospital equipment .....	5047	14.64	14.85	15.91	16.02	-	568.03	582.12	636.40	627.98	-
Metals and minerals, except petroleum .....	505	12.99	12.97	13.37	13.33	-	524.80	538.26	564.21	553.20	-
Electrical goods .....	506	14.33	14.38	15.01	15.10	-	556.00	562.26	588.39	584.37	-
Hardware, plumbing, and heating equipment .....	507	12.63	12.62	13.15	13.24	-	487.52	492.18	519.43	519.01	-
Machinery, equipment, and supplies .....	508	13.29	13.31	13.99	14.02	-	519.64	523.08	555.40	548.18	-
Misc. wholesale trade durable goods .....	509	10.44	10.49	10.85	10.86	-	395.68	400.72	414.47	411.59	-
Nondurable goods .....	51	12.05	12.08	12.58	12.55	-	449.47	451.79	474.27	470.63	-
Paper and paper products .....	511	12.19	12.25	12.75	12.54	-	444.94	450.80	465.38	456.46	-
Drugs, proprietaries, and sundries .....	512	15.32	15.52	16.59	16.26	-	548.46	555.62	603.88	578.86	-
Apparel, piece goods, and notions .....	513	11.72	11.68	12.57	12.57	-	423.09	434.50	465.09	460.06	-
Groceries and related products .....	514	12.45	12.53	12.84	12.83	-	478.08	481.15	496.91	497.80	-
Farm-product raw materials .....	515	9.05	8.98	9.57	9.52	-	318.56	316.99	338.78	336.06	-
Chemicals and allied products .....	516	13.85	13.67	14.15	14.24	-	537.81	548.17	573.08	566.75	-
Petroleum and petroleum products .....	517	11.22	11.15	11.52	11.42	-	420.75	417.01	440.06	432.82	-
Beer, wine, and distilled beverages .....	518	13.95	13.84	14.62	14.76	-	530.10	521.77	555.56	562.36	-
Misc. wholesale trade nondurable goods .....	519	9.94	9.95	10.26	10.33	-	361.82	362.18	379.62	377.05	-
<b>Retail trade .....</b>		<b>7.93</b>	<b>7.95</b>	<b>8.27</b>	<b>8.26</b>	<b>8.28</b>	<b>233.14</b>	<b>234.53</b>	<b>243.14</b>	<b>244.50</b>	<b>246.74</b>
Building materials and garden supplies .....	52	9.39	9.47	9.74	9.76	-	337.10	338.08	346.74	348.43	-
Lumber and other building materials .....	521	9.81	9.90	10.15	10.18	-	366.89	367.29	375.55	378.70	-
Paint, glass, and wallpaper stores .....	523	10.04	10.02	10.28	10.35	-	366.46	368.74	373.16	375.71	-
Hardware stores .....	525	7.89	7.91	8.20	8.13	-	256.43	256.28	261.58	259.35	-
Retail nurseries and garden stores .....	526	8.20	8.32	8.60	8.64	-	265.68	265.41	279.50	278.21	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	29.7	29.7	30.1	30.2	-	-	-	-	-	-
Department stores .....	531	29.7	29.7	30.1	30.3	-	-	-	-	-	-
Variety stores .....	533	28.0	28.3	27.8	28.5	-	-	-	-	-	-
Misc. general merchandise stores .....	539	30.8	30.4	30.6	30.9	-	-	-	-	-	-
Food stores .....	54	30.8	30.4	30.3	30.8	-	-	-	-	-	-
Grocery stores .....	541	31.1	30.5	30.5	31.0	-	-	-	-	-	-
Retail bakeries .....	546	28.5	28.8	28.8	29.3	-	-	-	-	-	-
Automotive dealers and service stations .....	55	35.4	35.7	36.1	36.0	-	-	-	-	-	-
New and used car dealers .....	551	36.7	37.0	37.2	37.0	-	-	-	-	-	-
Auto and home supply stores .....	553	37.9	38.3	38.3	38.4	-	-	-	-	-	-
Gasoline service stations .....	554	32.1	32.4	32.9	33.0	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.8	35.7	36.0	35.4	-	-	-	-	-	-
Apparel and accessory stores .....	56	27.0	27.4	27.0	27.4	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	28.8	29.0	29.0	29.1	-	-	-	-	-	-
Women's clothing stores .....	562	25.1	25.4	25.3	25.9	-	-	-	-	-	-
Family clothing stores .....	565	27.9	28.5	27.8	28.3	-	-	-	-	-	-
Shoe stores .....	566	27.1	26.9	26.7	27.2	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	33.2	33.3	33.3	33.3	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.4	33.4	33.3	33.3	-	-	-	-	-	-
Household appliance stores .....	572	34.8	34.6	34.7	34.7	-	-	-	-	-	-
Radio, television, and computer stores .....	573	32.8	33.1	33.2	33.1	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	33.6	33.0	33.1	33.5	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	26.6	27.7	26.0	26.3	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	26.0	26.2	25.8	26.1	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	30.2	30.3	29.8	29.9	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	29.4	29.4	29.0	29.3	-	-	-	-	-	-
Used merchandise stores .....	593	30.8	30.9	30.7	30.2	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	29.3	29.2	28.5	28.9	-	-	-	-	-	-
Nonstore retailers .....	596	32.9	32.9	32.2	31.9	-	-	-	-	-	-
Fuel dealers .....	598	36.9	37.1	37.2	36.6	-	-	-	-	-	-
Retail stores, nec .....	599	30.7	31.0	30.5	30.7	-	-	-	-	-	-
Optical goods stores .....	5995	34.1	34.2	33.4	33.4	-	-	-	-	-	-
Miscellaneous retail stores, nec .....	5999	31.4	31.5	30.8	31.3	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>35.6</b>	<b>35.7</b>	<b>36.6</b>	<b>35.9</b>	<b>36.0</b>	-	-	-	-	-
Depository institutions .....	60	35.1	35.2	36.1	35.2	-	-	-	-	-	-
Commercial banks .....	602	34.9	35.0	35.9	34.9	-	-	-	-	-	-
State commercial banks .....	6022	35.3	35.4	36.2	35.2	-	-	-	-	-	-
National and commercial banks, nec .....	6021,9	34.5	34.7	35.7	34.7	-	-	-	-	-	-
Credit unions .....	606	35.7	35.9	36.4	36.0	-	-	-	-	-	-
Nondepository institutions .....	61	37.9	38.0	39.1	37.8	-	-	-	-	-	-
Personal credit institutions .....	614	39.0	38.6	39.8	38.2	-	-	-	-	-	-
Security and commodity brokers:											
Security and commodity services .....	628	36.1	36.4	38.8	37.4	-	-	-	-	-	-
Insurance carriers .....	63	37.7	38.1	38.7	38.0	-	-	-	-	-	-
Life insurance .....	631	37.4	37.6	38.6	37.5	-	-	-	-	-	-
Medical service and health insurance .....	632	38.4	39.0	39.1	38.7	-	-	-	-	-	-
Hospital and medical service plans .....	6324	38.3	39.1	39.4	39.1	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.8	38.4	38.5	38.0	-	-	-	-	-	-
<b>Services</b> .....		<b>32.5</b>	<b>32.7</b>	<b>32.8</b>	<b>32.8</b>	<b>32.9</b>	-	-	-	-	-
Agricultural services .....	07	35.5	35.3	35.9	35.9	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Retail trade—Continued</b>											
General merchandise stores .....	53	\$7.86	\$7.87	\$8.13	\$8.12	-	\$233.44	\$233.74	\$244.71	\$245.22	-
Department stores .....	531	7.92	7.93	8.17	8.17	-	235.22	235.52	245.92	247.55	-
Variety stores .....	533	7.19	7.20	7.50	7.48	-	201.32	203.76	208.50	213.18	-
Misc. general merchandise stores .....	539	7.62	7.56	7.95	7.95	-	234.70	229.82	243.27	245.66	-
Food stores .....	54	8.28	8.31	8.62	8.61	-	255.02	252.62	261.19	265.19	-
Grocery stores .....	541	8.38	8.42	8.73	8.73	-	260.62	256.81	266.27	270.63	-
Retail bakeries .....	546	7.46	7.49	7.59	7.66	-	212.61	215.71	218.59	224.44	-
Automotive dealers and service stations .....	55	10.88	10.96	11.43	11.41	-	385.15	391.27	412.62	410.76	-
New and used car dealers .....	551	13.82	13.96	14.51	14.55	-	507.19	516.52	539.77	538.35	-
Auto and home supply stores .....	553	8.99	9.03	9.44	9.41	-	340.72	345.85	361.55	361.34	-
Gasoline service stations .....	554	7.11	7.11	7.39	7.37	-	228.23	230.36	243.13	243.21	-
Automotive dealers, nec .....	559	11.78	11.79	12.75	12.65	-	421.72	420.90	459.00	447.81	-
Apparel and accessory stores .....	56	7.65	7.62	8.08	7.98	-	206.55	208.79	218.16	218.65	-
Men's and boys' clothing stores .....	561	9.24	9.06	9.72	9.85	-	266.11	262.74	281.88	286.64	-
Women's clothing stores .....	562	7.53	7.51	7.89	7.83	-	189.00	190.75	199.62	202.80	-
Family clothing stores .....	565	7.55	7.53	7.88	7.71	-	210.65	214.61	219.06	218.19	-
Shoe stores .....	566	7.44	7.40	8.03	7.87	-	201.62	199.06	214.40	214.06	-
Furniture and home furnishings stores .....	57	10.73	10.67	11.20	11.23	-	356.24	355.31	372.96	373.96	-
Furniture and home furnishings stores .....	571	10.22	10.15	10.51	10.50	-	341.35	339.01	349.98	349.65	-
Household appliance stores .....	572	10.43	10.46	10.65	10.62	-	362.96	361.92	369.56	368.51	-
Radio, television, and computer stores .....	573	11.44	11.38	12.16	12.25	-	375.23	376.68	403.71	405.48	-
Radio, television, and electronic stores .....	5731	10.57	10.73	11.16	11.22	-	355.15	354.09	369.40	375.87	-
Record and prerecorded tape stores .....	5735	6.62	6.57	7.00	6.96	-	176.09	181.99	182.00	183.05	-
Eating and drinking places <sup>4</sup> .....	58	5.76	5.78	5.98	5.98	-	149.76	151.44	154.28	156.08	-
Miscellaneous retail establishments .....	59	8.71	8.72	9.07	9.05	-	263.04	264.22	270.29	270.60	-
Drug stores and proprietary stores .....	591	9.27	9.25	9.64	9.60	-	272.54	271.95	279.56	281.28	-
Used merchandise stores .....	593	7.29	7.37	7.55	7.58	-	224.53	227.73	231.79	228.92	-
Miscellaneous shopping goods stores .....	594	7.94	7.96	8.41	8.33	-	232.64	232.43	239.69	240.74	-
Nonstore retailers .....	596	9.40	9.38	9.71	9.75	-	309.26	308.60	312.66	311.03	-
Fuel dealers .....	598	11.68	11.72	12.07	12.16	-	430.99	434.81	449.00	445.06	-
Retail stores, nec .....	599	8.91	8.95	9.14	9.16	-	273.54	277.45	278.77	281.21	-
Optical goods stores .....	5995	11.05	11.01	11.30	11.32	-	376.81	376.54	377.42	378.09	-
Miscellaneous retail stores, nec .....	5999	9.07	9.18	9.39	9.38	-	284.80	289.17	289.21	293.59	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>12.69</b>	<b>12.71</b>	<b>13.23</b>	<b>13.14</b>	<b>\$13.24</b>	<b>451.76</b>	<b>453.75</b>	<b>484.22</b>	<b>471.73</b>	<b>\$476.64</b>
Depository institutions .....	60	9.84	9.88	10.16	10.15	-	345.38	347.78	366.78	357.28	-
Commercial banks .....	602	9.39	9.40	9.67	9.65	-	327.71	329.00	347.15	336.79	-
State commercial banks .....	6022	9.19	9.19	9.58	9.59	-	324.41	325.33	346.80	337.57	-
National and commercial banks, nec .....	6021,9	9.52	9.54	9.74	9.70	-	328.44	331.04	347.72	336.59	-
Credit unions .....	606	9.82	9.79	10.10	10.09	-	350.57	351.46	367.64	363.24	-
Nondepository institutions .....	61	12.85	12.88	13.68	13.79	-	487.02	489.44	534.89	521.26	-
Personal credit institutions .....	614	10.85	10.96	11.86	11.71	-	423.15	423.06	472.03	447.32	-
Security and commodity brokers: Security and commodity services .....	628	17.85	17.85	18.71	18.99	-	644.39	649.74	725.95	710.23	-
Insurance carriers .....	63	15.29	15.33	15.77	15.64	-	576.43	584.07	610.30	594.32	-
Life insurance .....	631	14.43	14.34	14.06	14.06	-	539.68	539.18	542.72	527.25	-
Medical service and health insurance .....	632	14.27	14.30	15.01	14.72	-	547.97	557.70	586.89	569.66	-
Hospital and medical service plans .....	6324	14.57	14.60	15.33	14.99	-	558.03	570.86	604.00	586.11	-
Fire, marine, and casualty insurance .....	633	16.72	16.84	17.35	17.27	-	632.02	646.66	667.98	656.26	-
<b>Services</b> .....		<b>11.60</b>	<b>11.63</b>	<b>12.15</b>	<b>12.07</b>	<b>12.11</b>	<b>377.00</b>	<b>380.30</b>	<b>398.52</b>	<b>395.90</b>	<b>398.42</b>
Agricultural services .....	07	9.05	9.07	9.24	9.34	-	321.28	320.17	331.72	335.31	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>a</sup>	Aug. 1997 <sup>a</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>a</sup>	Aug. 1997 <sup>a</sup>
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	29.4	29.6	29.5	29.8	-	-	-	-	-	-
Landscape and horticultural services .....	078	37.7	37.5	38.4	38.3	-	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	31.3	31.7	31.4	31.2	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	33.8	34.0	34.5	34.3	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	27.2	27.7	28.1	27.7	-	-	-	-	-	-
Miscellaneous personal services .....	729	28.7	27.0	27.1	27.0	-	-	-	-	-	-
Business services .....	73	33.1	33.4	33.5	33.3	-	-	-	-	-	-
Advertising .....	731	35.4	35.8	37.1	36.3	-	-	-	-	-	-
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	36.4	36.9	36.8	35.4	-	-	-	-	-	-
Services to buildings .....	734	28.2	28.7	28.9	28.4	-	-	-	-	-	-
Disinfecting and pest control services .....	7342	36.6	37.5	37.0	36.3	-	-	-	-	-	-
Building maintenance services, nec .....	7349	27.4	27.9	28.1	27.6	-	-	-	-	-	-
Miscellaneous equipment rental and leasing .....	735	39.5	39.5	39.7	39.2	-	-	-	-	-	-
Medical equipment rental .....	7352	37.0	36.5	37.1	36.0	-	-	-	-	-	-
Heavy construction equipment rental .....	7353	40.5	41.2	40.7	41.2	-	-	-	-	-	-
Equipment rental and leasing, nec .....	7359	39.7	39.7	40.0	39.4	-	-	-	-	-	-
Personnel supply services:											
Help supply services .....	7363	32.2	32.5	31.9	32.4	-	-	-	-	-	-
Computer and data processing services .....	737	37.2	37.6	38.5	37.9	-	-	-	-	-	-
Computer programming services .....	7371	37.5	38.0	38.5	37.9	-	-	-	-	-	-
Computer integrated systems design .....	7373	37.4	37.8	39.6	38.6	-	-	-	-	-	-
Information retrieval services .....	7375	38.4	38.4	37.7	38.4	-	-	-	-	-	-
Computer maintenance and repair .....	7378	38.7	39.2	39.0	38.5	-	-	-	-	-	-
Miscellaneous business services .....	738	33.1	33.3	33.2	32.8	-	-	-	-	-	-
Detective and armored car services .....	7381	34.4	34.5	34.6	34.3	-	-	-	-	-	-
Security systems services .....	7382	35.8	36.3	35.7	35.6	-	-	-	-	-	-
Auto repair, services, and parking .....	75	36.3	36.6	36.6	36.6	-	-	-	-	-	-
Automotive rentals, without drivers .....	751	36.7	36.6	36.9	36.8	-	-	-	-	-	-
Passenger car rental .....	7514	37.1	36.9	37.1	37.0	-	-	-	-	-	-
Automobile parking .....	752	32.8	33.1	34.2	33.8	-	-	-	-	-	-
Automotive repair shops .....	753	38.1	38.7	38.4	38.3	-	-	-	-	-	-
Automotive and tire repair shops .....	7532,4	37.8	38.6	38.0	38.0	-	-	-	-	-	-
General automotive repair shops .....	7538	37.5	38.2	38.1	37.9	-	-	-	-	-	-
Automotive services, except repair .....	754	32.2	32.4	32.5	33.1	-	-	-	-	-	-
Carwashes .....	7542	30.0	30.2	30.1	31.5	-	-	-	-	-	-
Miscellaneous repair services .....	76	38.2	38.3	38.7	38.6	-	-	-	-	-	-
Motion pictures .....	78	31.2	30.5	29.8	30.8	-	-	-	-	-	-
Motion picture production and services .....	781	39.3	39.2	38.5	38.9	-	-	-	-	-	-
Video tape rental .....	784	25.0	24.1	24.6	25.0	-	-	-	-	-	-
Amusement and recreation services .....	79	28.3	28.5	27.4	28.4	-	-	-	-	-	-
Bowling centers .....	793	24.3	25.0	24.1	24.5	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	28.9	29.1	27.4	28.7	-	-	-	-	-	-
Physical fitness facilities .....	7991	18.4	18.5	19.2	19.3	-	-	-	-	-	-
Membership sports and recreation clubs .....	7997	30.0	29.3	29.2	30.0	-	-	-	-	-	-
Health services .....	80	32.6	32.7	33.2	33.1	-	-	-	-	-	-
Offices and clinics of medical doctors .....	801	32.6	32.8	33.4	33.0	-	-	-	-	-	-
Offices and clinics of dentists .....	802	27.9	28.1	28.5	28.3	-	-	-	-	-	-
Offices and clinics of other health practitioners .....	804	29.4	29.9	30.4	30.2	-	-	-	-	-	-
Nursing and personal care facilities .....	805	32.7	32.4	32.6	32.9	-	-	-	-	-	-
Intermediate care facilities .....	8052	32.6	32.1	32.2	32.5	-	-	-	-	-	-
Hospitals .....	806	34.3	34.4	34.9	34.9	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Services—Continued</b>											
Agricultural services—Continued											
Veterinary services .....	074	\$9.01	\$9.02	\$9.39	\$9.49	-	\$264.89	\$266.99	\$277.01	\$282.80	-
Landscape and horticultural services .....	078	9.14	9.16	9.24	9.35	-	344.58	343.50	354.82	358.11	-
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	7.96	7.95	8.41	8.38	-	249.15	252.02	264.07	261.46	-
Personal services:											
Laundry, cleaning, and garment services .....	721	7.77	7.73	8.05	8.11	-	262.63	262.82	277.73	278.17	-
Beauty shops <sup>4</sup> .....	723	8.96	8.95	9.22	9.27	-	243.71	247.92	259.08	256.78	-
Miscellaneous personal services .....	729	8.77	8.69	8.78	8.64	-	234.16	234.63	237.94	233.28	-
Business services .....	73	11.14	11.15	11.79	11.71	-	368.73	372.41	394.97	389.94	-
Advertising .....	731	16.37	16.51	16.85	16.62	-	579.50	591.06	625.14	603.31	-
Mailing, reproduction, and stenographic services:											
Photocopying and duplicating services .....	7334	10.63	10.61	10.93	11.01	-	386.93	391.51	402.22	389.75	-
Services to buildings .....	734	7.69	7.68	7.91	7.96	-	216.86	220.42	228.60	226.06	-
Disinfecting and pest control services .....	7342	10.10	10.10	10.79	10.86	-	369.66	378.75	399.23	394.22	-
Building maintenance services, nec .....	7349	7.98	7.37	7.54	7.59	-	202.21	205.62	211.87	209.48	-
Miscellaneous equipment rental and leasing .....	735	11.36	11.57	11.76	11.74	-	448.72	457.02	466.87	460.21	-
Medical equipment rental .....	7352	10.59	10.84	10.92	11.05	-	391.83	395.66	405.13	397.80	-
Heavy construction equipment rental .....	7353	15.12	15.36	15.64	15.85	-	612.36	632.83	636.55	653.02	-
Equipment rental and leasing, nec .....	7359	10.42	10.58	10.83	10.71	-	413.67	420.03	433.20	421.97	-
Personnel supply services:											
Help supply services .....	7363	9.17	9.10	9.66	9.60	-	295.27	295.75	308.15	311.04	-
Computer and data processing services .....	737	18.63	18.80	19.94	19.76	-	693.04	706.88	767.69	748.90	-
Computer programming services .....	7371	21.30	21.65	23.07	22.80	-	798.75	822.70	888.20	864.12	-
Computer integrated systems design .....	7373	19.46	19.23	20.47	20.40	-	727.80	726.89	810.61	787.44	-
Information retrieval services .....	7375	14.54	14.55	15.13	15.32	-	558.34	558.72	570.40	588.29	-
Computer maintenance and repair .....	7378	14.25	13.90	14.63	14.89	-	551.48	544.88	570.57	573.27	-
Miscellaneous business services .....	738	9.54	9.56	9.70	9.69	-	315.77	318.35	322.04	317.83	-
Detective and armored car services .....	7381	7.46	7.40	7.81	7.91	-	256.62	255.30	270.23	271.31	-
Security systems services .....	7382	11.57	11.77	12.30	12.27	-	414.21	427.25	439.11	436.81	-
Auto repair, services, and parking											
Automotive rentals, without drivers .....	75	10.17	10.18	10.47	10.47	-	369.17	372.59	383.20	383.20	-
Passenger car rental .....	751	9.73	9.67	9.95	10.01	-	357.09	353.92	367.16	368.37	-
Automobile parking .....	7514	8.77	8.73	8.94	9.03	-	325.37	322.14	331.67	334.11	-
Automotive repair shops .....	752	7.41	7.45	7.64	7.67	-	243.05	246.60	261.29	259.25	-
Automotive and tire repair shops .....	753	11.40	11.41	11.81	11.80	-	434.34	441.57	453.50	451.94	-
General automotive repair shops .....	7532,4	11.89	11.93	12.38	12.38	-	449.44	460.50	470.44	470.44	-
Automotive services, except repair .....	7538	11.44	11.42	11.85	11.79	-	429.00	436.24	451.49	446.84	-
Carwashes .....	754	7.65	7.71	7.86	7.92	-	246.33	249.80	255.45	262.15	-
Miscellaneous repair services .....	7542	6.65	6.69	6.94	6.95	-	199.50	202.04	208.89	218.93	-
Motion pictures .....	76	12.09	12.12	12.60	12.64	-	461.84	464.20	487.62	487.90	-
Motion picture production and services .....	78	12.75	13.39	13.31	13.18	-	397.80	408.40	396.64	405.94	-
Video tape rental .....	781	18.62	19.20	18.70	18.78	-	731.77	752.64	719.95	730.54	-
Amusement and recreation services .....	784	5.92	5.94	6.43	6.50	-	148.00	143.15	158.18	162.50	-
Bowling centers .....	79	8.26	8.25	8.72	8.49	-	233.76	235.13	238.93	241.12	-
Misc. amusement and recreation services .....	793	7.19	7.17	7.65	7.64	-	174.72	179.25	184.37	187.18	-
Physical fitness facilities .....	799	7.77	7.76	8.18	7.96	-	224.55	225.82	224.13	228.45	-
Membership sports and recreation clubs .....	7991	8.03	7.92	8.39	8.36	-	147.75	146.52	161.09	161.35	-
Health services .....	7997	8.14	8.16	8.51	8.39	-	244.20	239.09	248.49	251.70	-
Offices and clinics of medical doctors .....	80	12.84	12.84	13.18	13.25	-	418.58	419.87	437.58	438.58	-
Offices and clinics of dentists .....	801	13.13	13.19	13.66	13.72	-	428.04	432.63	456.24	452.76	-
Offices and clinics of other health practitioners .....	802	12.85	12.91	13.59	13.61	-	358.52	362.77	387.32	385.16	-
Nursing and personal care facilities .....	804	11.85	11.92	12.40	12.36	-	348.39	356.41	376.96	373.27	-
Intermediate care facilities .....	805	9.01	8.99	9.25	9.37	-	294.63	291.28	301.55	308.27	-
Hospitals .....	8052	8.38	8.36	8.69	8.89	-	273.19	268.36	279.82	288.99	-
Hospitals .....	806	14.71	14.67	14.94	15.03	-	504.55	504.65	521.41	524.55	-

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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Services—Continued</b>											
<b>Health services—Continued</b>											
Home health care services .....	808	28.0	28.3	29.1	28.9	-	-	-	-	-	-
Legal services .....	81	34.3	34.6	35.6	34.7	-	-	-	-	-	-
Social services .....	83	31.0	31.1	31.5	31.3	-	-	-	-	-	-
Individual and family services .....	832	30.7	31.0	31.8	31.2	-	-	-	-	-	-
Job training and related services .....	833	30.3	31.0	31.0	30.8	-	-	-	-	-	-
Child day care services .....	835	30.2	30.2	30.3	30.5	-	-	-	-	-	-
Residential care .....	836	32.2	31.9	32.4	32.4	-	-	-	-	-	-
Social services, nec .....	839	30.6	31.5	31.7	30.9	-	-	-	-	-	-
<b>Membership organizations:</b>											
Professional organizations .....	862	34.4	34.4	35.2	34.9	-	-	-	-	-	-
<b>Engineering and management services</b>											
Engineering and architectural services .....	87	36.8	37.1	37.5	37.1	-	-	-	-	-	-
Engineering and architectural services .....	871	38.8	39.2	39.7	39.2	-	-	-	-	-	-
Engineering services .....	8711	39.1	39.5	40.0	39.5	-	-	-	-	-	-
Architectural services .....	8712	37.6	38.0	38.9	38.5	-	-	-	-	-	-
Surveying services .....	8713	37.7	38.3	38.1	38.3	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	35.5	35.4	36.0	35.7	-	-	-	-	-	-
Research and testing services .....	873	36.3	36.7	37.3	36.8	-	-	-	-	-	-
Commercial physical research .....	8731	39.6	40.0	40.8	40.3	-	-	-	-	-	-
Commercial nonphysical research .....	8732	30.4	31.0	31.5	30.9	-	-	-	-	-	-
Noncommercial research organizations .....	8733	35.8	36.2	37.3	36.7	-	-	-	-	-	-
Management and public relations .....	874	35.7	36.1	36.4	35.9	-	-	-	-	-	-
Management services .....	8741	35.1	35.7	35.4	35.0	-	-	-	-	-	-
Management consulting services .....	8742	35.3	35.7	36.8	36.2	-	-	-	-	-	-
Public relations services .....	8743	34.0	34.3	36.0	35.3	-	-	-	-	-	-
Services, nec .....	89	35.9	35.9	36.4	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				
		July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Services—Continued</b>											
<b>Health services—Continued</b>											
Home health care services .....	808	\$11.21	\$11.17	\$11.30	\$11.30	-	\$313.88	\$316.11	\$328.83	\$326.57	-
Legal services .....	81	16.57	16.50	17.43	17.29	-	568.35	570.90	620.51	599.96	-
Social services .....	83	8.46	8.49	8.79	8.72	-	262.26	264.04	276.89	272.94	-
Individual and family services .....	832	9.01	9.02	9.37	9.28	-	276.61	279.62	297.97	289.54	-
Job training and related services .....	833	7.95	8.12	8.49	8.32	-	240.89	251.72	263.19	256.26	-
Child day care services .....	835	7.09	7.11	7.44	7.31	-	214.12	214.72	225.43	222.96	-
Residential care .....	836	8.69	8.68	8.90	8.92	-	279.82	276.89	288.36	289.01	-
Social services, nec .....	839	10.35	10.21	10.99	10.65	-	316.71	321.62	348.38	329.09	-
<b>Membership organizations:</b>											
Professional organizations .....	862	16.54	16.52	17.52	17.44	-	568.98	568.29	616.70	608.66	-
<b>Engineering and management services</b>											
Engineering and architectural services .....	871	17.73	17.85	18.71	18.58	-	687.92	699.72	742.79	728.34	-
Engineering services .....	8711	18.47	18.59	19.56	19.46	-	722.18	734.31	782.40	768.67	-
Architectural services .....	8712	16.08	16.15	16.76	16.49	-	604.61	613.70	651.96	634.87	-
Surveying services .....	8713	12.89	12.96	13.30	13.22	-	485.95	496.37	506.73	506.33	-
Accounting, auditing, and bookkeeping .....	872	14.16	14.19	14.75	14.65	-	502.68	502.33	531.00	523.01	-
Research and testing services .....	873	17.11	17.24	17.63	17.38	-	621.09	632.71	657.60	639.58	-
Commercial physical research .....	8731	19.25	19.38	19.85	19.24	-	762.30	775.20	809.88	775.37	-
Commercial nonphysical research .....	8732	13.31	13.17	13.57	13.64	-	404.62	408.27	427.46	421.48	-
Noncommercial research organizations .....	8733	19.82	20.13	20.65	20.52	-	709.56	728.71	770.25	753.08	-
Management and public relations .....	874	15.12	15.20	16.16	16.12	-	539.78	548.72	588.22	578.71	-
Management services .....	8741	13.54	13.65	14.61	14.70	-	475.25	487.31	517.19	514.50	-
Management consulting services .....	8742	17.27	17.21	18.24	18.10	-	609.63	614.40	671.23	655.22	-
Public relations services .....	8743	14.38	14.37	14.97	14.62	-	488.92	492.89	538.92	516.09	-
Services, nec .....	89	15.99	16.14	16.61	16.50	-	574.04	579.43	604.60	570.90	-

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

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

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

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

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

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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)			
	June 1996	July 1996	June 1997	July 1997 <sup>p</sup>	June 1996	July 1996	June 1997	July 1997 <sup>p</sup>
Average hourly earnings, excluding lump-sum payments .....	\$20.39	\$20.48	\$20.68	\$20.84	\$19.01	\$19.36	\$20.51	\$20.92
Average hourly earnings, including lump-sum payments .....	20.67	20.78	20.98	21.17	19.01	19.36	20.51	20.92

<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	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Manufacturing</b> .....	<b>\$12.16</b>	<b>\$12.11</b>	<b>\$12.41</b>	<b>\$12.43</b>	<b>\$12.42</b>
<b>Durable goods</b> .....	<b>12.68</b>	<b>12.65</b>	<b>12.90</b>	<b>12.91</b>	<b>12.93</b>
Lumber and wood products .....	9.94	9.99	10.21	10.27	(2)
Furniture and fixtures .....	9.74	9.76	10.10	10.09	(2)
Stone, clay, and glass products .....	12.07	12.01	12.27	12.33	(2)
Primary metal industries .....	14.09	13.99	14.13	14.26	(2)
Fabricated metal products .....	11.88	11.84	12.07	12.02	(2)
Industrial machinery and equipment .....	12.84	12.90	13.15	13.22	(2)
Electronic and other electrical equipment .....	11.73	11.70	12.01	12.12	(2)
Transportation equipment .....	16.39	16.16	16.31	16.30	(2)
Instruments and related products .....	12.66	12.62	12.95	13.00	(2)
Miscellaneous manufacturing .....	10.02	9.98	10.13	10.16	(2)
<b>Nondurable goods</b> .....	<b>11.42</b>	<b>11.34</b>	<b>11.67</b>	<b>11.75</b>	<b>\$11.68</b>
Food and kindred products .....	10.60	10.49	10.82	10.83	(2)
Tobacco products .....	19.53	18.97	20.48	20.26	(2)
Textile mill products .....	9.20	9.20	9.44	9.51	(2)
Apparel and other textile products .....	7.75	7.72	8.01	7.99	(2)
Paper and allied products .....	13.86	13.78	14.11	14.21	(2)
Printing and publishing .....	12.16	12.16	12.43	12.51	(2)
Chemicals and allied products .....	15.30	15.34	15.63	15.68	(2)
Petroleum and coal products .....	17.74	17.61	18.61	18.65	(2)
Rubber and misc. plastics products .....	10.71	10.67	10.95	11.01	(2)
Leather and leather products .....	8.25	8.40	8.68	8.53	(2)

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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				
	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>	July 1996	Aug. 1996	June 1997	July 1997 <sup>P</sup>	Aug. 1997 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$11.73	\$11.76	\$12.17	\$12.15	\$12.19	\$405.86	\$409.25	\$424.73	\$422.82	\$426.65
Constant (1982) dollars .....	7.37	7.38	7.49	7.48	( <sup>2</sup> )	254.94	256.74	261.53	260.20	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	15.54	15.51	16.11	16.02	\$15.97	696.19	702.60	737.84	722.50	\$718.65
Constant (1982) dollars .....	9.76	9.73	9.92	9.86	( <sup>2</sup> )	437.31	440.78	454.33	444.62	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	15.51	15.57	15.88	15.99	\$16.09	617.30	621.24	627.26	641.20	\$638.77
Constant (1982) dollars .....	9.74	9.77	9.78	9.84	( <sup>2</sup> )	387.75	389.74	386.24	394.58	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	12.79	12.79	13.10	13.12	\$13.17	525.67	534.62	550.20	541.86	\$553.14
Constant (1982) dollars .....	8.03	8.02	8.07	8.07	( <sup>2</sup> )	330.19	335.40	338.79	333.45	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	14.44	14.48	14.78	14.95	\$14.94	573.27	579.20	588.24	590.53	\$603.58
Constant (1982) dollars .....	9.07	9.08	9.10	9.20	( <sup>2</sup> )	360.09	363.36	362.22	363.40	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	12.82	12.85	13.36	13.36	\$13.45	488.44	493.44	517.03	513.02	\$517.83
Constant (1982) dollars .....	8.05	8.06	8.23	8.22	( <sup>2</sup> )	306.81	309.56	318.37	315.70	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	7.93	7.95	8.27	8.26	\$8.28	233.14	234.53	243.14	244.50	\$246.74
Constant (1982) dollars .....	4.98	4.99	5.09	5.08	( <sup>2</sup> )	146.44	147.13	149.72	150.46	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	12.69	12.71	13.23	13.14	\$13.24	451.76	453.75	484.22	471.73	\$476.64
Constant (1982) dollars .....	7.97	7.97	8.15	8.09	( <sup>2</sup> )	283.77	284.66	298.17	290.30	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	11.60	11.63	12.15	12.07	\$12.11	377.00	380.30	398.52	395.90	\$398.42
Constant (1982) dollars .....	7.29	7.30	7.48	7.43	( <sup>2</sup> )	236.81	238.58	245.39	243.63	( <sup>2</sup> )

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Alabama</b> .....	41.6	41.3	41.1	\$11.52	\$11.78	\$11.77	\$479.23	\$486.51	\$483.75
Birmingham .....	42.7	43.0	41.5	12.60	12.55	12.57	538.02	539.65	521.66
Mobile .....	43.5	42.1	42.7	13.66	14.02	14.09	594.21	590.24	601.64
<b>Alaska</b> .....	54.8	41.3	47.3	10.40	12.26	11.22	569.92	506.34	530.71
<b>Arizona</b> .....	42.6	41.1	40.5	11.63	11.70	11.94	495.44	480.87	483.57
<b>Arkansas</b> .....	41.2	41.2	41.5	10.47	10.75	10.80	431.36	442.90	448.20
Fayetteville-Springdale-Rogers .....	39.9	40.7	40.2	9.91	10.43	10.23	395.41	424.50	411.25
Fort Smith .....	41.2	40.2	42.4	10.48	10.61	10.60	431.78	426.52	449.44
Little Rock-North Little Rock .....	42.2	42.3	42.1	11.19	11.52	11.45	472.22	487.30	482.05
Pine Bluff .....	42.0	42.4	41.5	11.97	12.37	12.57	502.74	524.49	521.66
<b>California</b> .....	41.1	41.7	41.5	12.86	13.16	13.24	528.55	548.77	549.46
Bakersfield .....	41.5	41.8	42.1	13.51	13.54	13.91	560.67	565.97	585.61
Fresno .....	41.4	40.7	40.6	11.18	11.72	11.77	462.85	477.00	477.86
Los Angeles-Long Beach .....	41.6	42.2	41.9	12.03	12.38	12.38	500.45	522.44	518.72
Modesto .....	40.3	41.8	41.0	12.63	13.33	13.51	508.99	557.19	553.91
Oakland .....	42.2	42.1	42.9	15.50	15.57	15.64	654.10	655.50	670.96
Orange County .....	41.5	42.3	42.2	12.82	12.92	12.94	532.03	546.52	546.07
Riverside-San Bernardino .....	41.7	41.8	41.5	11.53	11.89	11.90	480.80	497.00	493.85
Sacramento .....	39.8	41.4	41.9	13.86	14.11	14.29	551.63	584.15	598.75
Salinas .....	38.7	37.8	37.5	13.48	13.91	13.70	521.68	525.80	513.75
San Diego .....	39.2	40.4	40.0	12.84	13.29	13.34	503.33	536.92	533.60
San Francisco .....	41.0	41.1	40.9	14.00	14.29	14.44	574.00	587.32	590.80
San Jose .....	40.0	42.3	42.2	15.80	16.52	16.54	632.00	698.80	697.99
Santa Barbara-Santa Maria-Lompoc .....	41.3	41.5	41.2	12.87	13.39	13.49	531.53	555.69	555.79
Santa Rosa .....	39.3	40.0	39.9	14.66	14.97	15.07	576.14	598.80	601.29
Stockton-Lodi .....	41.3	42.9	42.9	12.92	13.26	13.12	533.60	568.85	562.85
Vallejo-Fairfield-Napa .....	40.4	40.7	40.8	14.50	15.17	15.09	585.80	617.42	615.67
Ventura .....	41.2	42.2	42.0	12.28	12.42	12.53	505.94	524.12	526.26
<b>Colorado</b> .....	40.8	42.0	41.8	12.90	13.32	13.40	526.32	559.44	560.12
Denver .....	41.0	41.5	42.0	12.94	13.00	13.08	530.54	539.50	549.36
<b>Connecticut</b> .....	42.2	42.5	42.2	14.06	14.38	14.52	593.33	611.15	612.74
Bridgeport .....	41.8	42.8	42.2	14.80	14.80	14.40	618.64	633.44	607.68
Danbury .....	44.5	43.5	42.9	14.63	14.69	14.78	651.04	639.02	634.06
Hartford .....	42.5	42.4	42.6	14.92	15.19	15.38	634.10	644.06	655.19
New Haven-Meriden .....	41.5	42.6	42.2	13.49	14.03	14.48	559.84	597.68	611.06
New London-Norwich .....	42.1	41.5	42.0	14.74	14.75	15.00	620.55	612.13	630.00
Stamford-Norwalk .....	40.7	40.6	40.3	13.98	13.63	13.75	568.99	553.38	554.13
Waterbury .....	42.8	44.4	43.0	12.97	13.32	13.31	555.12	591.41	572.33
<b>Delaware</b> .....	40.6	43.0	42.8	13.98	14.91	14.88	567.59	641.13	636.86
Dover .....	40.5	39.7	40.6	12.33	13.55	13.68	499.37	537.94	555.41
Wilmington-Newark .....	41.6	44.4	43.5	16.91	17.90	17.95	703.46	794.76	780.83
<b>District of Columbia:</b>									
Washington PMSA .....	38.9	39.3	39.8	13.72	13.98	14.02	533.71	549.41	558.00
<b>Florida</b> .....	40.8	41.8	41.2	10.54	10.75	10.90	430.03	449.35	449.08
<b>Georgia</b> .....	42.1	42.3	42.1	11.17	11.45	11.54	470.26	484.34	485.63
Atlanta .....	42.9	42.5	42.4	12.06	12.40	12.55	517.37	527.00	532.12
Savannah .....	44.8	46.9	46.4	14.14	13.45	13.20	633.47	630.81	612.48
<b>Hawaii</b> .....	38.2	36.2	36.1	12.64	13.16	12.75	482.85	476.39	460.28
Honolulu .....	38.7	39.4	37.6	12.98	13.06	12.90	502.33	514.56	485.04
<b>Idaho</b> .....	39.0	40.3	40.4	12.15	12.22	12.26	473.85	492.47	495.30
<b>Illinois</b> .....	41.6	42.3	42.1	13.03	13.34	13.39	542.05	564.28	563.72
Bloomington-Normal .....	41.7	40.4	41.2	17.35	16.99	17.34	723.50	686.40	714.41
Champaign-Urbana .....	41.1	41.8	41.3	10.75	11.03	11.06	441.83	461.05	456.78
Chicago .....	41.9	42.6	42.3	12.99	13.27	13.31	544.28	565.30	563.01
Davenport-Moline-Rock Island .....	41.6	42.8	42.7	14.89	15.28	15.32	619.42	653.98	654.16
Decatur .....	41.4	43.1	42.8	16.10	16.59	16.62	666.54	715.03	711.34
Kankakee .....	40.9	41.4	41.4	14.10	14.53	14.51	576.69	601.54	600.71
Peoria-Pekin .....	41.5	42.8	42.1	16.34	16.46	16.41	678.11	704.49	690.86
Rockford .....	42.2	42.6	42.1	14.86	14.52	14.80	627.09	618.55	614.66
Springfield .....	40.7	40.8	40.2	11.71	12.02	12.03	476.60	490.42	483.61

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Indiana</b> .....	42.2	42.6	41.6	\$14.15	\$14.62	\$14.58	\$597.13	\$622.81	\$606.53
Bloomington .....	40.6	41.5	41.3	11.67	12.40	12.42	473.80	514.60	512.95
Elkhart-Goshen .....	39.5	39.7	39.2	12.20	12.31	12.15	481.90	488.71	476.28
Evansville-Henderson .....	41.7	43.4	43.0	13.34	14.62	14.78	556.28	634.51	635.54
Fort Wayne .....	41.7	41.0	41.0	14.40	14.52	14.43	600.48	595.32	591.63
Gary .....	42.2	42.2	42.3	18.87	18.08	18.78	796.31	762.98	794.39
Indianapolis .....	44.8	44.2	44.2	15.95	15.77	15.72	714.56	697.03	694.82
Kokomo .....	51.1	44.5	51.2	19.16	19.16	19.30	979.08	852.62	988.16
Lafayette .....	43.4	41.6	42.2	15.16	15.51	15.34	657.94	645.22	647.35
Muncie .....	42.4	43.1	43.7	14.62	14.54	14.59	619.89	626.67	637.58
South Bend .....	40.9	41.1	41.2	12.10	12.93	12.85	494.89	531.42	529.42
Terre Haute .....	43.2	43.5	43.4	13.96	14.79	14.83	603.07	643.37	643.62
<b>Iowa</b> .....	42.0	42.8	42.3	13.16	13.44	13.65	552.72	575.23	577.40
Cedar Rapids .....	42.6	42.1	43.8	15.91	16.46	16.71	677.77	692.97	731.90
Des Moines .....	42.1	42.5	41.9	13.43	13.46	13.71	565.40	572.05	574.45
Dubuque .....	41.4	41.7	42.0	14.56	14.60	14.97	602.78	608.82	628.74
Sioux City .....	38.7	39.6	38.3	10.50	11.47	11.54	406.35	454.21	441.98
<b>Kansas</b> .....	41.5	42.5	40.8	12.88	13.36	13.36	534.52	567.80	545.09
Topeka .....	40.7	40.5	43.1	13.86	14.80	14.65	564.10	599.40	631.42
Wichita .....	44.0	44.1	40.4	14.88	15.58	15.68	654.72	667.08	633.47
<b>Kentucky</b> .....	40.7	41.5	40.5	12.69	13.14	13.04	516.48	545.31	528.12
Lexington .....	41.3	43.3	41.7	13.61	14.45	14.06	562.09	625.69	586.30
Louisville .....	40.9	41.6	40.3	14.37	14.69	14.47	587.73	611.10	583.14
<b>Louisiana</b> .....	43.2	43.9	43.4	13.70	14.09	14.38	591.84	618.55	624.09
Baton Rouge .....	42.7	41.9	42.1	16.33	16.87	16.96	697.29	706.85	714.02
New Orleans .....	43.8	44.8	43.8	14.18	14.16	14.46	621.08	634.37	633.35
Shreveport-Bossier City .....	41.0	43.3	43.9	13.78	14.21	14.12	564.98	815.29	619.87
<b>Maine</b> .....	38.7	40.8	39.7	13.03	12.93	13.17	504.26	527.54	522.85
Lewiston-Auburn .....	39.8	42.4	42.4	11.29	10.84	11.27	449.34	459.62	477.85
Portland .....	36.7	37.1	37.3	11.24	10.99	10.90	412.51	407.73	406.57
<b>Maryland</b> .....	41.0	41.2	40.9	13.67	14.20	14.18	560.47	585.04	579.98
Baltimore PMSA .....	41.4	41.2	41.0	14.48	14.95	14.93	599.47	615.94	612.13
<b>Massachusetts</b> .....	41.6	42.3	42.2	13.04	13.32	13.39	542.46	563.44	565.06
Boston .....	41.5	41.7	41.4	14.04	14.39	14.57	582.66	600.06	603.20
Springfield .....	40.9	41.8	40.5	12.42	12.87	13.07	507.98	537.97	529.34
Worcester .....	41.4	44.1	42.9	13.17	13.33	13.41	545.24	587.85	575.29
<b>Michigan</b> .....	42.8	44.2	42.5	16.94	16.85	16.88	725.03	744.77	708.90
Ann Arbor .....	43.8	45.9	41.9	18.10	17.78	17.32	792.78	816.10	725.71
Detroit .....	43.5	45.4	42.8	18.69	18.43	18.06	813.01	636.72	772.97
Flint .....	47.6	48.8	46.5	21.64	22.00	21.97	1030.08	1025.20	1021.80
Grand Rapids-Muskegon-Holland .....	41.3	41.9	41.1	14.58	14.54	14.73	602.15	609.23	605.40
Jackson .....	40.1	40.8	41.3	12.40	13.05	13.06	497.24	532.44	539.38
Kalamazoo-Battle Creek .....	43.3	44.6	43.8	15.86	15.05	15.04	686.74	871.23	658.75
Lansing East Lansing .....	43.7	44.2	43.4	18.13	18.28	18.43	792.28	807.09	799.86
Saginaw-Bay City-Midland .....	48.0	47.3	47.3	19.44	20.09	20.33	933.12	950.26	961.81
<b>Minnesota</b> .....	40.7	41.0	41.2	13.16	13.55	13.58	535.61	555.55	559.50
Duluth-Superior .....	40.1	39.9	38.7	11.59	12.18	12.59	464.78	485.98	487.23
Minneapolis-St. Paul .....	40.9	41.2	41.2	14.09	14.38	14.48	578.28	592.48	596.58
St. Cloud .....	40.8	42.4	41.7	11.87	12.47	12.58	484.30	528.73	523.75
<b>Mississippi</b> .....	41.1	40.9	40.2	10.18	10.38	10.48	418.40	424.54	421.30
Jackson .....	43.4	41.1	41.0	11.33	11.68	11.81	491.72	480.05	484.21
<b>Missouri</b> .....	40.6	41.6	40.8	12.70	12.92	12.78	515.62	537.47	520.61
Kansas City .....	42.8	43.1	42.9	14.42	14.29	14.25	617.18	615.90	611.33
St. Louis .....	42.3	43.0	42.6	14.99	14.98	14.59	634.08	644.14	621.53
Springfield .....	40.6	40.9	41.4	10.89	11.01	11.03	442.13	450.31	456.64
<b>Montana</b> .....	38.5	39.4	37.6	12.91	13.27	13.36	497.04	522.84	503.09
<b>Nebraska</b> .....	41.3	41.0	40.7	11.45	12.04	12.48	472.89	493.64	507.94
Lincoln .....	44.3	45.0	46.0	13.29	13.27	13.62	588.75	597.15	626.52
Omaha .....	41.5	41.3	41.1	12.68	13.42	13.53	526.22	554.25	556.08
<b>Nevada</b> .....	40.4	42.9	42.5	13.98	14.21	14.33	564.79	609.61	609.03
Las Vegas .....	39.3	40.8	41.2	14.44	15.26	15.41	567.49	622.61	634.89

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>New Hampshire</b> .....	40.2	42.2	40.4	\$12.38	\$12.42	\$12.72	\$497.68	\$524.12	\$513.89
Manchester .....	39.3	41.0	39.8	13.12	13.91	13.68	515.62	570.31	544.46
Nashua .....	39.5	40.9	39.3	14.88	14.45	14.82	587.76	591.01	582.43
Portsmouth-Rochester .....	37.0	42.3	38.1	12.02	11.71	11.67	444.74	495.33	444.83
<b>New Jersey</b> .....	41.2	42.2	41.6	13.91	14.12	14.24	573.09	595.86	592.38
<b>New Mexico</b> .....	39.3	38.5	37.5	11.33	13.02	12.84	445.27	501.27	481.50
Albuquerque .....	39.7	39.0	37.8	11.74	14.50	14.37	466.08	565.50	543.19
<b>New York</b> .....	40.3	41.1	40.6	12.72	13.17	13.19	512.62	541.29	535.51
Albany-Schenectady-Troy .....	40.2	41.7	42.2	14.02	14.46	14.64	563.60	602.98	617.81
Binghamton .....	41.1	40.0	40.3	10.26	10.56	10.52	421.69	422.40	423.96
Buffalo-Niagara Falls .....	41.7	43.3	42.7	16.04	16.65	16.45	668.87	720.95	702.42
Dutchess County .....	37.6	37.8	38.9	11.57	12.06	12.12	435.03	455.87	471.47
Elmira .....	41.4	41.3	41.3	11.92	12.02	12.21	493.49	496.43	504.27
Nassau-Suffolk .....	38.7	40.8	39.3	11.79	12.18	12.33	456.27	496.94	484.57
New York PMSA .....	38.3	38.3	38.6	11.47	11.97	11.81	439.30	458.45	455.87
New York City .....	38.0	38.0	38.2	11.26	11.75	11.57	427.88	446.50	441.97
Newburgh .....	40.0	41.1	41.5	11.18	11.68	11.16	447.20	480.05	463.14
Rochester .....	41.7	43.1	41.7	14.22	14.80	14.86	592.97	637.88	619.66
Rockland County .....	42.9	40.1	42.2	14.92	15.68	15.79	640.07	628.77	666.34
Syracuse .....	42.5	42.9	41.8	13.88	14.21	14.19	589.90	609.61	593.14
Utica-Rome .....	39.2	40.6	39.4	11.60	11.52	11.55	454.72	467.71	455.07
Westchester County .....	40.4	40.5	40.9	11.97	12.47	12.33	483.59	505.04	504.30
<b>North Carolina</b> .....	40.0	41.2	40.5	10.97	11.34	11.38	438.80	467.21	460.89
Asheville .....	40.5	42.2	40.9	10.54	11.00	11.06	426.87	464.20	452.35
Charlotte-Gastonia-Rock Hill .....	39.9	40.8	40.5	11.78	12.29	12.35	470.02	501.43	500.18
Greensboro-Winston-Salem-High Point .....	39.8	40.7	40.0	11.29	11.63	11.72	449.34	473.34	468.80
Raleigh-Durham-Chapel Hill .....	41.7	42.0	41.7	11.93	12.45	12.53	497.48	522.90	522.50
<b>North Dakota</b> .....	42.4	41.6	40.3	10.90	11.07	11.04	462.16	460.51	444.91
Fargo-Moorhead .....	41.7	42.9	44.1	10.83	10.99	11.29	451.61	471.47	497.89
<b>Ohio</b> .....	42.1	43.3	42.3	14.68	15.07	14.98	618.03	652.53	633.65
Akron .....	41.4	41.8	41.9	12.22	12.62	12.67	505.91	527.52	530.87
Canton-Massillon .....	39.4	41.6	40.7	13.10	13.39	13.37	516.14	557.02	544.16
Cincinnati .....	42.6	42.8	42.5	14.31	14.42	14.37	609.61	617.18	610.73
Cleveland-Lorain-Elyria .....	42.0	43.7	42.1	14.80	15.09	14.95	621.60	659.43	629.40
Columbus .....	41.4	42.5	42.1	13.85	14.26	14.39	565.11	606.05	605.82
Dayton-Springfield .....	43.0	44.8	44.4	15.56	15.97	16.00	669.08	715.46	710.40
Hamilton-Middletown .....	45.5	44.9	45.5	16.37	16.93	17.13	744.84	760.16	779.42
Lima .....	41.8	43.6	42.2	15.58	16.05	16.00	651.24	699.78	675.20
Mansfield .....	41.5	42.8	42.3	15.54	15.94	15.86	644.91	682.23	670.88
Steubenville-Weirton .....	42.3	41.3	41.6	17.17	15.99	15.77	726.29	660.39	656.03
Toledo .....	44.9	43.2	43.0	16.58	16.34	15.95	744.44	705.89	685.85
Youngstown-Warren .....	42.1	43.4	42.9	15.37	16.34	16.50	647.08	709.16	707.85
<b>Oklahoma</b> .....	41.5	42.5	41.6	11.99	12.11	11.98	497.59	514.68	498.37
Oklahoma City .....	43.3	42.6	43.1	13.37	13.22	12.92	578.92	563.17	558.85
Tulsa .....	41.5	41.9	41.2	12.93	12.76	12.61	536.60	534.64	519.53
<b>Oregon</b> .....	39.6	41.2	39.9	12.99	13.31	13.30	514.40	548.37	530.87
Eugene-Springfield .....	38.3	40.6	36.0	13.11	12.77	12.90	502.11	518.46	464.40
Medford-Ashland .....	39.9	39.6	38.3	12.11	12.55	12.54	483.19	496.98	480.28
Portland-Vancouver .....	39.0	42.1	41.7	13.25	13.11	13.09	516.75	551.93	545.85
Salem .....	38.8	39.3	39.1	11.65	11.67	11.71	452.02	458.63	457.86
<b>Pennsylvania</b> .....	41.3	41.9	41.4	13.44	13.66	13.76	555.07	572.35	569.66
Allentown-Bethlem-Easton .....	41.5	41.8	41.4	13.31	13.75	14.00	552.37	574.75	579.60
Altoona .....	39.8	41.0	39.7	11.51	11.51	11.58	458.10	471.91	459.73
Erie .....	43.9	43.7	43.2	14.03	13.97	14.27	615.92	610.49	616.46
Harrisburg-Lebanon-Carlisle .....	38.6	39.8	38.9	12.97	13.12	13.49	500.64	522.18	524.76
Johnstown .....	40.2	40.1	39.2	9.97	10.24	10.37	400.79	410.62	406.50
Lancaster .....	39.9	40.1	40.1	12.94	12.95	13.00	516.31	519.30	521.30
Philadelphia PMSA .....	40.8	41.5	41.0	14.35	14.60	14.63	585.48	605.90	599.83
Pittsburgh .....	42.4	42.7	42.1	14.65	14.70	14.75	621.16	627.69	620.98
Reading .....	42.2	42.0	42.1	14.53	14.89	14.86	613.17	625.38	625.61
Scranton-Wilkes-Barre-Hazleton .....	39.7	41.0	40.9	11.93	12.32	12.41	473.62	505.12	507.57
Sharon .....	42.5	43.1	41.0	14.12	14.32	14.60	600.10	617.19	598.60
State College .....	42.0	41.8	42.9	11.34	11.84	11.83	476.28	494.91	507.51
Williamsport .....	41.6	40.6	40.0	10.77	11.14	11.32	448.03	452.28	452.80
York .....	42.0	42.6	42.1	13.45	13.89	13.92	564.90	591.71	566.03

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		
	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P	July 1996	June 1997	July 1997P
<b>Rhode Island</b> .....	39.3	40.9	39.7	\$11.01	\$11.25	\$11.30	\$432.69	\$460.13	\$448.61
Providence-Fall River-Warwick .....	39.3	41.4	40.3	11.12	11.34	11.33	437.02	469.48	456.60
<b>South Carolina</b> .....	41.6	42.1	42.0	10.26	10.35	10.37	426.82	435.74	435.54
<b>South Dakota</b> .....	41.5	41.9	42.1	9.55	9.95	10.00	396.33	416.91	421.00
Rapid City .....	40.3	40.5	40.6	9.52	9.77	9.83	383.66	395.69	399.10
Sioux Falls .....	41.8	41.8	41.8	9.93	10.33	10.36	415.07	431.79	433.05
<b>Tennessee</b> .....	40.4	41.7	40.7	11.33	11.74	11.79	457.73	489.56	479.85
Chattanooga .....	41.3	42.3	41.5	10.62	10.71	10.70	438.61	453.03	444.05
Johnson City-Kingsport-Bristol .....	39.8	39.6	39.6	12.15	12.93	12.94	483.57	512.03	512.42
Knoxville .....	40.2	42.1	40.0	10.97	11.10	11.32	440.99	467.31	452.80
Memphis .....	41.7	42.2	41.3	11.88	11.88	12.24	494.56	505.56	505.51
Nashville .....	40.5	40.4	39.5	11.88	12.59	12.71	481.14	508.64	502.05
<b>Texas</b> .....	42.9	43.4	42.9	11.84	12.06	12.04	507.94	523.40	516.52
Dallas .....	43.6	43.5	43.2	11.68	12.09	12.15	509.25	525.92	524.88
Ft. Worth-Arlington .....	42.3	44.1	43.2	12.48	12.88	12.88	527.90	568.01	556.42
Houston .....	44.5	45.5	45.2	13.97	13.71	13.67	621.67	623.81	617.88
San Antonio .....	41.4	40.9	40.6	9.57	9.60	9.71	396.20	392.64	394.23
<b>Utah</b> .....	39.6	39.6	40.3	12.21	12.66	12.64	483.52	501.34	509.39
Salt Lake City-Ogden .....	39.5	39.8	40.5	12.26	12.70	12.61	484.27	505.46	510.71
<b>Vermont</b> .....	39.7	40.3	39.5	12.38	12.67	12.83	491.49	510.60	506.79
Burlington .....	43.3	43.4	43.7	12.96	13.09	13.12	561.17	568.11	573.34
<b>Virginia</b> .....	41.3	42.3	41.9	12.17	12.41	12.49	502.62	524.94	523.33
Bristol .....	41.7	39.2	38.8	10.18	10.82	10.76	424.51	424.14	417.49
Charlottesville .....	42.5	46.2	45.8	10.05	10.26	10.32	427.13	474.01	472.66
Danville .....	40.6	43.1	44.1	11.39	12.14	13.31	462.43	523.23	586.97
Lynchburg .....	38.7	44.7	42.7	11.70	12.11	12.12	452.79	541.32	517.52
Northern Virginia .....	39.8	41.4	41.3	12.20	12.74	12.75	485.56	527.44	526.58
Richmond-Petersburg .....	43.3	42.6	42.3	15.91	15.70	15.50	688.90	668.82	655.65
Roanoke .....	40.1	40.4	40.6	12.86	14.41	13.15	515.69	582.16	533.89
<b>Washington</b> .....	40.1	40.8	40.7	14.85	15.05	15.29	595.49	614.04	622.30
<b>West Virginia</b> .....	41.0	41.6	41.0	12.99	13.13	13.11	532.59	546.21	537.51
Charleston .....	46.3	45.6	44.6	14.07	14.75	14.47	651.44	672.60	645.36
Huntington-Ashland .....	42.5	42.7	42.7	14.23	14.54	14.68	604.78	620.86	626.84
Parkersburg-Marietta .....	42.6	44.0	44.1	16.10	16.88	16.80	685.86	742.72	732.06
Wheeling .....	39.2	40.2	39.6	16.45	14.76	14.84	644.84	593.35	587.66
<b>Wisconsin</b> .....	41.6	42.1	41.9	13.07	13.56	13.51	543.71	570.88	566.07
Appleton-Oshkosh-Neenah .....	44.2	43.3	43.4	13.93	14.75	14.76	615.71	638.68	640.58
Eau Claire .....	45.7	41.1	40.8	12.86	12.99	12.91	587.70	533.89	526.73
Green Bay .....	40.8	41.5	40.4	15.09	14.97	15.18	615.67	621.26	612.46
Janesville-Beloit .....	45.5	45.0	46.4	18.86	17.38	17.10	767.13	782.10	793.44
Kenosha .....	37.5	38.7	38.4	12.86	14.03	12.51	482.25	542.96	480.38
La Crosse .....	40.2	42.2	41.0	10.70	11.67	11.75	430.14	492.47	481.75
Madison .....	41.5	40.2	40.7	12.56	12.70	12.66	521.24	510.54	515.26
Milwaukee-Waukesha .....	40.6	41.5	40.7	14.24	14.86	14.83	578.14	616.69	603.58
Racine .....	40.4	42.0	42.1	13.36	14.04	14.45	539.74	589.68	608.35
Sheboygan .....	41.6	42.0	39.5	12.83	12.68	13.07	533.73	532.56	516.27
Wausau .....	41.0	43.0	42.1	12.99	13.12	13.33	532.59	564.16	561.19
<b>Wyoming</b> .....	39.3	40.4	39.9	13.64	14.32	14.42	536.05	578.53	575.36
<b>Puerto Rico</b> .....	36.7	39.5	39.3	7.64	7.99	8.06	280.39	315.61	316.76
<b>Virgin Islands</b> .....	38.7	42.0	42.2	16.98	17.96	17.86	657.13	754.32	753.69

<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  
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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.
<b>NORTHEAST</b>													
Civilian noninstitutional population <sup>2</sup> .....	39,754	39,766	39,780	39,788	39,794	39,798	39,788	39,783	39,784	39,784	39,788	39,791	39,799
Civilian labor force .....	25,779	25,829	25,827	25,859	25,844	26,120	26,155	26,046	26,137	26,279	26,243	26,258	26,118
Employed .....	24,434	24,452	24,432	24,442	24,413	24,610	24,698	24,610	24,720	24,820	24,755	24,812	24,745
Unemployed .....	1,345	1,377	1,394	1,417	1,431	1,510	1,458	1,436	1,417	1,459	1,488	1,446	1,373
Unemployment rate .....	5.2	5.3	5.4	5.5	5.5	5.8	5.6	5.5	5.4	5.6	5.7	5.5	5.3
<b>New England</b>													
Civilian noninstitutional population <sup>2</sup> .....	10,318	10,323	10,329	10,333	10,339	10,342	10,341	10,343	10,346	10,348	10,353	10,355	10,361
Civilian labor force .....	7,000	7,072	7,059	7,077	7,047	7,113	7,056	7,111	7,225	7,203	7,246	7,210	7,148
Employed .....	6,708	6,739	6,727	6,753	6,705	6,774	6,758	6,780	6,875	6,824	6,907	6,904	6,843
Unemployed .....	291	332	333	324	342	339	298	331	349	379	338	306	304
Unemployment rate .....	4.2	4.7	4.7	4.6	4.9	4.8	4.2	4.7	4.8	5.3	4.7	4.2	4.3
<b>Middle Atlantic</b>													
Civilian noninstitutional population <sup>2</sup> .....	29,436	29,443	29,451	29,455	29,455	29,456	29,447	29,440	29,438	29,436	29,435	29,435	29,438
Civilian labor force .....	18,779	18,758	18,768	18,783	18,797	19,008	19,099	18,935	18,912	19,076	18,998	19,048	18,970
Employed .....	17,725	17,713	17,706	17,690	17,709	17,836	17,939	17,830	17,844	17,996	17,848	17,908	17,902
Unemployed .....	1,054	1,045	1,062	1,093	1,089	1,171	1,160	1,105	1,068	1,080	1,150	1,140	1,068
Unemployment rate .....	5.6	5.6	5.7	5.8	5.8	6.2	6.1	5.8	5.6	5.7	6.1	6.0	5.6
<b>SOUTH</b>													
Civilian noninstitutional population <sup>2</sup> .....	70,680	70,778	70,878	70,963	71,046	71,129	71,187	71,250	71,328	71,404	71,482	71,561	71,652
Civilian labor force .....	46,495	46,742	47,040	46,960	47,135	47,096	47,108	47,450	47,082	47,311	47,253	47,067	47,187
Employed .....	44,184	44,360	44,580	44,447	44,700	44,726	44,522	44,900	44,871	44,965	44,835	44,731	44,816
Unemployed .....	2,311	2,382	2,461	2,513	2,436	2,371	2,586	2,550	2,211	2,346	2,418	2,336	2,372
Unemployment rate .....	5.0	5.1	5.2	5.4	5.2	5.0	5.5	5.4	4.7	5.0	5.1	5.0	5.0
<b>South Atlantic</b>													
Civilian noninstitutional population <sup>2</sup> .....	36,504	36,555	36,604	36,647	36,689	36,731	36,759	36,790	36,829	36,867	36,905	36,946	36,991
Civilian labor force .....	24,071	24,068	24,176	24,142	24,214	24,335	24,157	24,451	24,346	24,509	24,588	24,343	24,503
Employed .....	22,911	22,879	22,997	22,987	23,017	23,155	22,889	23,266	23,217	23,384	23,423	23,343	23,359
Unemployed .....	1,161	1,190	1,179	1,155	1,197	1,181	1,268	1,185	1,129	1,125	1,166	1,000	1,144
Unemployment rate .....	4.8	4.9	4.9	4.8	4.9	4.9	5.2	4.8	4.6	4.6	4.7	4.1	4.7
<b>East South Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	12,422	12,436	12,453	12,466	12,478	12,492	12,501	12,509	12,522	12,533	12,546	12,557	12,571
Civilian labor force .....	7,954	8,020	8,123	8,103	8,133	8,051	8,135	8,177	8,134	8,004	8,000	8,016	7,934
Employed .....	7,608	7,609	7,612	7,582	7,673	7,590	7,686	7,713	7,745	7,622	7,566	7,563	7,477
Unemployed .....	346	411	510	520	460	461	448	464	389	382	433	452	457
Unemployment rate .....	4.4	5.1	6.3	6.4	5.7	5.7	5.5	5.7	4.8	4.8	5.4	5.6	5.8
<b>West South Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	21,754	21,787	21,821	21,850	21,879	21,907	21,928	21,952	21,978	22,003	22,031	22,058	22,089
Civilian labor force .....	14,470	14,654	14,742	14,716	14,789	14,710	14,816	14,822	14,603	14,798	14,665	14,708	14,750
Employed .....	13,666	13,872	13,971	13,878	14,009	13,982	13,947	13,921	13,909	13,959	13,846	13,825	13,979
Unemployed .....	804	781	772	838	779	729	869	901	694	839	820	884	770
Unemployment rate .....	5.6	5.3	5.2	5.7	5.3	5.0	5.9	6.1	4.8	5.7	5.6	6.0	5.2

See footnotes at end of table.

**HOUSEHOLD DATA  
REGIONS AND DIVISIONS  
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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.
<b>MIDWEST</b>													
Civilian noninstitutional population <sup>2</sup> .....	46,915	46,951	46,992	47,025	47,054	47,085	47,098	47,115	47,139	47,164	47,190	47,218	47,252
Civilian labor force .....	32,650	32,644	32,690	32,778	32,723	32,588	32,593	32,727	32,730	32,701	32,871	32,824	32,993
Employed .....	31,201	31,187	31,248	31,267	31,245	31,157	31,202	31,417	31,375	31,506	31,607	31,640	31,699
Unemployed .....	1,449	1,456	1,442	1,512	1,478	1,431	1,391	1,310	1,354	1,195	1,264	1,185	1,294
Unemployment rate .....	4.4	4.5	4.4	4.6	4.5	4.4	4.3	4.0	4.1	3.7	3.8	3.6	3.9
<b>East North Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	33,035	33,059	33,086	33,107	33,126	33,145	33,152	33,162	33,177	33,192	33,208	33,226	33,247
Civilian labor force .....	22,536	22,506	22,561	22,634	22,613	22,576	22,588	22,737	22,659	22,579	22,733	22,649	22,805
Employed .....	21,494	21,438	21,521	21,579	21,529	21,557	21,560	21,742	21,671	21,726	21,832	21,749	21,878
Unemployed .....	1,042	1,068	1,041	1,055	1,083	1,019	1,028	996	988	853	901	899	927
Unemployment rate .....	4.6	4.7	4.6	4.7	4.8	4.5	4.6	4.4	4.4	3.8	4.0	4.0	4.1
<b>West North Central</b>													
Civilian noninstitutional population <sup>2</sup> .....	13,880	13,892	13,906	13,918	13,928	13,940	13,946	13,953	13,962	13,972	13,982	13,992	14,004
Civilian labor force .....	10,114	10,137	10,129	10,144	10,110	10,012	10,005	9,990	10,071	10,122	10,137	10,176	10,189
Employed .....	9,707	9,749	9,727	9,687	9,715	9,600	9,642	9,675	9,704	9,780	9,775	9,890	9,821
Unemployed .....	408	388	402	456	395	412	363	315	367	341	363	285	368
Unemployment rate .....	4.0	3.8	4.0	4.5	3.9	4.1	3.6	3.1	3.6	3.4	3.6	2.8	3.6
<b>WEST</b>													
Civilian noninstitutional population <sup>2</sup> .....	43,948	44,018	44,087	44,151	44,213	44,274	44,316	44,366	44,424	44,481	44,539	44,597	44,661
Civilian labor force .....	29,409	29,549	29,544	29,684	29,680	29,848	29,704	29,992	30,031	29,833	29,868	30,000	30,258
Employed .....	27,545	27,700	27,691	27,791	27,800	28,050	28,005	28,198	28,311	28,236	28,205	28,425	28,568
Unemployed .....	1,864	1,850	1,853	1,894	1,880	1,798	1,699	1,794	1,720	1,597	1,663	1,576	1,690
Unemployment rate .....	6.3	6.3	6.3	6.4	6.3	6.0	5.7	6.0	5.7	5.4	5.6	5.3	5.6
<b>Mountain</b>													
Civilian noninstitutional population <sup>2</sup> .....	12,138	12,168	12,199	12,229	12,258	12,287	12,309	12,334	12,362	12,390	12,418	12,446	12,474
Civilian labor force .....	8,314	8,331	8,325	8,391	8,439	8,430	8,320	8,398	8,406	8,411	8,439	8,578	8,563
Employed .....	7,858	7,893	7,904	7,983	8,022	8,034	7,927	8,005	8,041	8,033	8,064	8,250	8,203
Unemployed .....	456	438	421	408	417	395	393	393	365	378	375	328	360
Unemployment rate .....	5.5	5.3	5.1	4.9	4.9	4.7	4.7	4.7	4.3	4.5	4.4	3.8	4.2
<b>Pacific</b>													
Civilian noninstitutional population <sup>2</sup> .....	31,810	31,850	31,888	31,922	31,955	31,987	32,007	32,032	32,062	32,091	32,121	32,150	32,187
Civilian labor force .....	21,095	21,218	21,219	21,293	21,241	21,418	21,383	21,594	21,625	21,422	21,430	21,423	21,695
Employed .....	19,688	19,806	19,787	19,808	19,778	20,015	20,078	20,193	20,270	20,203	20,141	20,175	20,365
Unemployed .....	1,408	1,412	1,432	1,486	1,463	1,403	1,306	1,400	1,355	1,219	1,288	1,248	1,329
Unemployment rate .....	6.7	6.7	6.7	7.0	6.9	6.6	6.1	6.5	6.3	5.7	6.0	5.8	6.1

<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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>a</sup>
<b>Alabama</b>													
Civilian labor force .....	2,089.3	2,089.8	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	2,107.4
Employed .....	1,985.0	1,988.1	1,989.7	1,995.2	2,000.0	2,002.6	1,996.6	2,003.4	2,010.2	2,008.1	2,002.0	2,000.9	2,008.7
Unemployed .....	104.3	101.7	101.9	99.9	97.3	94.1	91.8	92.7	95.6	92.8	97.9	94.9	98.7
Unemployment rate .....	5.0	4.9	4.9	4.8	4.6	4.5	4.4	4.4	4.5	4.4	4.7	4.5	4.7
<b>Alaska</b>													
Civilian labor force .....	318.6	317.8	318.5	319.2	319.9	320.9	320.6	322.1	323.4	323.8	322.0	321.4	323.0
Employed .....	291.8	293.0	293.8	294.2	294.8	295.4	296.5	297.6	298.1	298.1	299.9	299.2	299.5
Unemployed .....	24.8	24.8	24.7	25.0	25.1	25.5	24.1	24.5	25.3	25.7	22.1	22.2	23.4
Unemployment rate .....	7.6	7.8	7.8	7.8	7.8	7.9	7.5	7.6	7.8	7.9	6.9	6.9	7.3
<b>Arizona</b>													
Civilian labor force .....	2,247.6	2,251.4	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	2,279.1
Employed .....	2,119.2	2,124.5	2,126.5	2,129.4	2,136.6	2,139.8	2,173.9	2,161.8	2,163.5	2,164.6	2,174.2	2,169.3	2,184.8
Unemployed .....	128.3	126.9	130.3	128.2	125.7	122.9	120.0	116.8	110.3	108.0	107.4	98.9	94.2
Unemployment rate .....	5.7	5.6	5.6	5.7	5.6	5.4	5.2	5.1	4.8	4.8	4.7	4.4	4.1
<b>Arkansas</b>													
Civilian labor force .....	1,235.8	1,238.5	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	1,247.3
Employed .....	1,166.8	1,168.8	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	1,178.9
Unemployed .....	69.0	69.7	70.0	69.1	68.2	66.5	66.7	67.5	68.1	57.6	56.9	64.4	68.4
Unemployment rate .....	5.6	5.6	5.6	5.6	5.5	5.4	5.4	5.4	5.4	4.6	4.6	5.2	5.5
<b>California</b>													
Civilian labor force .....	15,803.8	15,831.1	15,864.1	15,869.0	15,884.8	15,865.0	15,770.7	15,765.3	15,839.2	15,874.2	15,846.5	15,833.8	15,862.1
Employed .....	14,490.6	14,526.7	14,557.4	14,573.6	14,594.8	14,586.4	14,687.0	14,745.9	14,792.5	14,836.0	14,842.0	14,840.1	14,889.6
Unemployed .....	1,113.1	1,104.4	1,106.6	1,095.3	1,089.8	1,066.8	1,083.7	1,039.4	1,046.7	1,038.3	1,006.4	993.7	972.6
Unemployment rate .....	7.1	7.1	7.1	7.0	6.9	6.8	6.9	6.6	6.6	6.5	6.4	6.3	6.1
<b>Colorado</b>													
Civilian labor force .....	2,096.3	2,098.9	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	2,168.2
Employed .....	2,007.0	2,008.8	2,009.5	2,012.5	2,015.8	2,015.9	2,050.0	2,064.6	2,075.3	2,078.4	2,085.7	2,076.9	2,100.0
Unemployed .....	89.4	88.1	88.3	87.0	85.8	84.5	79.0	67.3	69.1	71.4	74.5	74.8	68.2
Unemployment rate .....	4.3	4.2	4.2	4.1	4.1	4.0	3.7	3.2	3.2	3.3	3.5	3.5	3.1
<b>Connecticut</b>													
Civilian labor force .....	1,721.6	1,721.9	1,721.5	1,724.1	1,723.3	1,722.0	1,735.8	1,731.4	1,732.6	1,741.5	1,741.7	1,749.2	1,746.6
Employed .....	1,623.8	1,624.4	1,622.9	1,624.4	1,624.0	1,623.0	1,645.9	1,646.0	1,648.9	1,651.7	1,651.2	1,657.7	1,683.2
Unemployed .....	97.8	97.5	98.5	99.6	99.3	99.0	89.7	85.4	85.7	89.8	90.5	91.5	63.4
Unemployment rate .....	5.7	5.7	5.7	5.8	5.8	5.7	5.2	4.9	4.9	5.2	5.2	5.2	4.8
<b>Delaware</b>													
Civilian labor force .....	382.8	382.6	382.4	383.4	383.9	384.4	393.1	393.2	393.8	390.7	389.4	390.9	391.1
Employed .....	382.9	381.9	381.9	382.9	383.5	384.2	373.8	374.5	375.2	374.4	373.5	374.0	374.2
Unemployed .....	19.7	20.7	20.5	20.5	20.5	20.2	19.4	18.6	18.4	18.3	15.8	16.9	18.9
Unemployment rate .....	5.2	5.4	5.4	5.4	5.3	5.3	4.9	4.7	4.7	4.2	4.1	4.3	4.3
<b>District of Columbia</b>													
Civilian labor force .....	270.7	270.5	270.5	270.1	269.5	270.0	267.8	266.1	269.2	268.7	266.8	258.6	257.1
Employed .....	247.5	247.3	247.4	247.3	247.5	247.3	246.7	246.4	246.1	247.5	246.8	239.4	238.2
Unemployed .....	23.3	23.3	23.1	22.7	22.0	22.7	20.9	19.7	21.1	19.3	18.2	17.2	18.9
Unemployment rate .....	8.6	8.8	8.5	8.4	8.2	8.4	7.8	7.4	7.8	7.2	6.8	6.7	7.4
<b>Florida</b>													
Civilian labor force .....	6,940.5	6,949.4	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	7,142.3
Employed .....	6,592.2	6,605.1	6,610.4	6,626.6	6,639.0	6,658.1	6,752.6	6,748.1	6,741.8	6,742.5	6,785.0	6,789.8	6,813.4
Unemployed .....	348.3	344.4	349.0	345.3	343.6	340.9	347.6	346.5	356.5	357.1	359.2	354.5	328.8
Unemployment rate .....	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.9	5.0	5.0	5.0	5.0	4.6

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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>a</sup>
<b>Georgia</b>													
Civilian labor force .....	3,773.7	3,769.8	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	3,866.7
Employed .....	3,603.3	3,597.5	3,601.9	3,613.7	3,621.3	3,625.3	3,648.6	3,655.3	3,663.2	3,680.1	3,680.5	3,699.9	3,698.5
Unemployed .....	170.4	172.3	176.0	174.3	176.8	178.2	177.7	179.7	178.9	166.7	173.1	170.4	168.2
Unemployment rate .....	4.5	4.6	4.7	4.6	4.7	4.7	4.6	4.7	4.7	4.3	4.5	4.4	4.3
<b>Hawaii</b>													
Civilian labor force .....	591.6	592.6	593.8	594.2	596.6	596.0	594.6	593.9	593.1	593.6	590.2	593.4	596.9
Employed .....	553.7	554.8	555.9	556.7	556.7	557.1	560.8	560.9	558.8	558.3	555.6	556.9	560.0
Unemployed .....	37.9	37.8	37.9	37.4	39.9	38.9	33.8	33.0	34.3	35.3	34.6	36.5	36.9
Unemployment rate .....	6.4	6.4	6.4	6.3	6.7	6.5	5.7	5.6	5.8	5.9	5.9	6.2	6.2
<b>Idaho</b>													
Civilian labor force .....	619.4	622.5	623.4	625.5	628.5	631.1	638.3	631.6	632.0	634.6	638.7	639.5	641.4
Employed .....	588.0	590.8	591.4	593.4	595.1	596.1	602.8	599.1	598.4	602.5	605.9	608.6	609.8
Unemployed .....	31.4	31.7	32.0	32.1	33.5	35.0	33.5	32.5	33.6	32.1	30.8	30.9	31.6
Unemployment rate .....	5.1	5.1	5.1	5.1	5.3	5.6	5.3	5.1	5.3	5.1	4.8	4.8	4.9
<b>Illinois</b>													
Civilian labor force .....	6,109.1	6,106.3	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	6,141.6
Employed .....	5,784.1	5,782.6	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	5,857.3
Unemployed .....	325.0	323.7	320.6	321.4	319.2	320.1	308.5	304.2	307.7	295.4	268.3	271.7	284.4
Unemployment rate .....	5.3	5.3	5.3	5.3	5.2	5.2	5.0	5.0	5.0	4.8	4.4	4.4	4.6
<b>Indiana</b>													
Civilian labor force .....	3,065.0	3,061.4	3,061.5	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	3,119.3
Employed .....	2,940.6	2,937.9	2,938.1	2,941.5	2,945.8	2,938.3	2,982.6	2,975.3	2,985.2	2,997.9	3,006.8	3,006.7	3,020.3
Unemployed .....	124.4	123.5	123.4	117.0	112.7	109.8	94.3	87.4	98.4	100.3	99.1	101.6	99.1
Unemployment rate .....	4.1	4.0	4.0	3.8	3.7	3.6	3.1	2.9	3.2	3.2	3.2	3.3	3.2
<b>Iowa</b>													
Civilian labor force .....	1,601.1	1,605.0	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
Employed .....	1,540.3	1,544.3	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
Unemployed .....	60.8	60.7	61.5	61.8	61.9	61.6	57.7	57.0	52.8	53.6	48.8	46.9	41.7
Unemployment rate .....	3.8	3.8	3.8	3.9	3.9	3.8	3.6	3.5	3.2	3.3	3.0	3.0	2.6
<b>Kansas</b>													
Civilian labor force .....	1,336.6	1,339.2	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	1,392.0
Employed .....	1,276.4	1,278.1	1,279.3	1,283.8	1,285.8	1,265.4	1,329.6	1,329.2	1,328.8	1,328.9	1,327.6	1,328.2	1,338.1
Unemployed .....	60.2	61.1	61.7	62.2	62.5	61.8	55.6	54.5	53.2	55.1	55.5	52.4	54.0
Unemployment rate .....	4.5	4.6	4.6	4.6	4.6	4.6	4.0	3.9	3.8	4.0	4.0	3.8	3.9
<b>Kentucky</b>													
Civilian labor force .....	1,867.3	1,867.2	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	1,927.9
Employed .....	1,762.7	1,763.7	1,762.7	1,768.4	1,769.0	1,770.8	1,808.4	1,805.9	1,813.5	1,824.4	1,821.1	1,820.9	1,826.5
Unemployed .....	104.6	103.5	104.5	106.1	107.2	109.6	105.4	105.5	102.5	99.6	99.5	99.3	101.4
Unemployment rate .....	5.6	5.5	5.6	5.7	5.7	5.8	5.5	5.5	5.4	5.2	5.2	5.2	5.3
<b>Louisiana</b>													
Civilian labor force .....	2,001.7	2,003.2	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	2,004.8
Employed .....	1,864.2	1,866.2	1,876.6	1,880.6	1,886.6	1,890.8	1,896.9	1,906.8	1,912.4	1,909.6	1,892.6	1,879.0	1,877.5
Unemployed .....	137.5	137.0	137.6	136.6	130.2	132.9	115.0	105.2	118.2	112.4	126.5	125.9	127.3
Unemployment rate .....	6.9	6.8	6.8	6.8	6.5	6.6	5.7	5.2	5.8	5.6	6.3	6.3	6.3
<b>Maine</b>													
Civilian labor force .....	889.9	672.0	673.7	673.8	674.0	674.7	667.8	666.8	672.6	669.1	668.7	670.0	667.7
Employed .....	635.1	637.6	639.9	640.8	641.9	643.1	638.1	637.9	643.3	637.3	636.3	637.8	634.2
Unemployed .....	34.8	34.4	33.8	33.0	32.0	31.6	29.7	29.0	29.3	31.8	32.4	32.1	33.6
Unemployment rate .....	5.2	5.1	5.0	4.9	4.8	4.7	4.4	4.3	4.4	4.7	4.8	4.8	5.0

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>a</sup>
<b>Maryland</b>													
Civilian labor force .....	2,797.3	2,798.5	2,802.2	2,806.0	2,807.8	2,808.5	2,759.1	2,760.2	2,784.3	2,772.3	2,779.8	2,776.0	2,775.6
Employed .....	2,662.0	2,664.6	2,668.3	2,675.0	2,677.7	2,679.4	2,632.6	2,634.8	2,839.6	2,640.3	2,648.5	2,644.7	2,645.0
Unemployed .....	135.3	134.0	134.0	131.0	130.1	127.2	126.5	125.5	124.7	132.1	131.3	131.3	130.6
Unemployment rate .....	4.8	4.8	4.8	4.7	4.6	4.5	4.6	4.5	4.5	4.8	4.7	4.7	4.7
<b>Massachusetts</b>													
Civilian labor force .....	3,186.7	3,167.2	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	3,234.2
Employed .....	3,055.3	3,058.9	3,063.8	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	3,109.5
Unemployed .....	131.5	128.3	130.0	127.7	125.7	125.4	130.9	121.2	127.3	132.7	137.0	127.8	124.7
Unemployment rate .....	4.1	4.0	4.1	4.0	3.9	3.9	4.1	3.8	4.0	4.1	4.2	4.0	3.9
<b>Michigan</b>													
Civilian labor force .....	4,795.8	4,811.7	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	4,857.9
Employed .....	4,562.6	4,581.8	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	4,671.9
Unemployed .....	233.2	229.9	230.7	232.2	230.9	232.4	239.9	219.8	208.4	212.6	197.2	196.7	186.0
Unemployment rate .....	4.9	4.8	4.8	4.8	4.8	4.8	4.9	4.5	4.3	4.4	4.0	4.0	3.8
<b>Minnesota</b>													
Civilian labor force .....	2,612.0	2,613.4	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	2,667.0
Employed .....	2,505.2	2,506.7	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	2,585.3
Unemployed .....	106.8	106.7	106.6	104.8	103.6	102.6	92.6	79.6	80.9	89.9	87.7	84.5	81.7
Unemployment rate .....	4.1	4.1	4.1	4.0	4.0	3.9	3.5	3.0	3.1	3.4	3.3	3.2	3.1
<b>Mississippi</b>													
Civilian labor force .....	1,262.5	1,260.7	1,256.4	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	1,274.0
Employed .....	1,185.8	1,184.7	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	1,210.5
Unemployed .....	76.7	75.9	71.9	75.6	74.8	73.4	70.4	71.9	74.6	64.0	63.1	63.0	63.5
Unemployment rate .....	6.1	6.0	5.9	6.0	5.9	5.8	5.5	5.6	5.8	5.0	5.0	5.0	5.0
<b>Missouri</b>													
Civilian labor force .....	2,898.0	2,900.6	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	2,849.9
Employed .....	2,765.6	2,769.7	2,771.3	2,781.0	2,782.5	2,784.1	2,739.1	2,747.8	2,737.8	2,736.5	2,745.5	2,746.9	2,746.4
Unemployed .....	132.4	131.1	132.3	136.2	140.6	141.4	126.5	126.1	119.2	127.1	116.0	110.3	101.5
Unemployment rate .....	4.6	4.5	4.6	4.7	4.8	4.8	4.4	4.4	4.2	4.4	4.1	3.9	3.6
<b>Montana</b>													
Civilian labor force .....	446.6	446.5	447.0	450.4	451.0	449.3	454.4	453.0	456.0	456.7	459.0	458.4	460.7
Employed .....	423.1	423.6	424.3	428.4	429.3	427.7	432.5	432.4	433.5	432.4	436.5	435.5	437.3
Unemployed .....	23.5	22.9	22.7	22.0	21.7	21.6	21.9	20.7	22.5	24.3	22.5	23.0	23.4
Unemployment rate .....	5.3	5.1	5.1	4.9	4.8	4.8	4.8	4.6	4.9	5.3	4.9	5.0	5.1
<b>Nebraska</b>													
Civilian labor force .....	912.5	913.3	913.6	916.5	916.3	916.5	921.1	918.7	919.6	917.3	919.9	919.0	922.3
Employed .....	885.1	886.6	887.1	889.7	890.9	890.6	898.4	896.3	898.0	899.2	898.6	897.0	900.2
Unemployed .....	27.4	26.7	26.6	26.8	27.4	26.0	22.7	22.3	21.7	18.1	21.3	22.0	22.1
Unemployment rate .....	3.0	2.9	2.9	2.9	3.0	2.8	2.5	2.4	2.4	2.0	2.3	2.4	2.4
<b>Nevada</b>													
Civilian labor force .....	847.0	850.6	855.0	857.9	860.8	864.8	881.7	863.9	884.4	887.6	889.3	896.8	901.6
Employed .....	800.4	803.6	806.4	810.3	814.7	817.5	841.1	844.3	844.9	847.7	850.5	856.4	861.8
Unemployed .....	46.6	47.0	48.6	47.6	46.2	47.3	40.6	39.6	39.5	39.9	38.8	40.4	39.8
Unemployment rate .....	5.5	5.5	5.7	5.5	5.4	5.5	4.6	4.5	4.5	4.5	4.4	4.5	4.4
<b>New Hampshire</b>													
Civilian labor force .....	623.8	621.9	620.3	622.1	621.0	620.1	647.3	648.5	640.9	643.9	648.9	651.3	655.6
Employed .....	597.4	595.6	593.8	595.9	595.7	595.9	626.7	626.7	627.5	626.8	630.9	632.3	636.0
Unemployed .....	26.4	26.3	26.5	26.2	25.3	24.2	20.6	21.8	13.4	17.1	18.1	19.0	19.5
Unemployment rate .....	4.2	4.2	4.3	4.2	4.1	3.9	3.2	3.4	2.1	2.7	2.8	2.9	3.0

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>p</sup>
<b>New Jersey</b>													
Civilian labor force .....	4,130.2	4,136.7	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	4,156.4
Employed .....	3,878.6	3,883.1	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	3,933.7
Unemployed .....	251.6	253.6	256.3	256.0	254.2	251.6	246.4	230.0	227.0	215.0	221.3	226.7	222.7
Unemployment rate .....	6.1	6.1	6.2	6.2	6.1	6.1	5.9	5.6	5.5	5.2	5.4	5.5	5.4
<b>New Mexico</b>													
Civilian labor force .....	802.8	801.7	799.5	801.9	802.4	802.3	818.7	816.3	814.2	817.4	820.3	822.1	824.9
Employed .....	734.7	734.7	733.7	735.0	735.5	736.8	765.0	763.0	760.9	765.0	768.8	789.2	772.4
Unemployed .....	68.1	67.0	65.7	66.9	66.9	65.5	53.7	53.2	53.3	52.4	51.5	52.9	52.5
Unemployment rate .....	8.5	8.4	8.2	8.3	8.3	8.2	6.6	6.5	6.5	6.4	6.3	6.4	6.4
<b>New York</b>													
Civilian labor force .....	6,657.7	6,653.0	6,654.8	6,667.8	6,680.8	6,686.6	6,677.2	6,691.9	6,705.9	6,715.9	6,750.5	6,759.9	6,776.3
Employed .....	6,116.4	6,121.2	6,126.1	6,137.0	6,143.3	6,147.1	6,129.5	6,144.7	6,157.1	6,165.0	6,195.8	6,208.8	6,215.4
Unemployed .....	541.4	531.9	528.7	530.8	537.4	539.5	547.8	547.2	548.8	550.8	554.7	551.0	560.8
Unemployment rate .....	6.3	6.1	6.1	6.1	6.2	6.2	8.3	6.3	6.3	6.3	6.3	6.3	6.4
<b>North Carolina</b>													
Civilian labor force .....	3,801.8	3,809.0	3,824.7	3,848.8	3,853.3	3,960.4	3,821.4	3,794.0	3,818.0	3,817.3	3,819.8	3,796.9	3,808.9
Employed .....	3,640.1	3,649.4	3,662.3	3,685.3	3,688.9	3,697.4	3,674.6	3,654.9	3,664.5	3,695.5	3,687.0	3,657.8	3,666.8
Unemployed .....	161.7	159.6	162.4	163.4	164.4	163.0	146.8	139.1	133.5	121.9	132.8	139.1	142.1
Unemployment rate .....	4.3	4.2	4.2	4.2	4.3	4.2	3.8	3.7	3.5	3.2	3.5	3.7	3.7
<b>North Dakota</b>													
Civilian labor force .....	344.4	345.2	345.5	345.2	346.3	346.9	347.0	347.2	347.1	347.6	350.9	349.5	347.7
Employed .....	333.5	334.4	334.8	335.2	335.6	335.9	336.4	338.1	337.6	337.5	339.4	339.8	338.7
Unemployed .....	10.9	10.8	10.7	10.0	10.8	11.0	10.7	9.0	9.6	10.0	11.5	9.6	9.0
Unemployment rate .....	3.2	3.1	3.1	2.9	3.1	3.2	3.1	2.6	2.8	2.9	3.3	2.8	2.6
<b>Ohio</b>													
Civilian labor force .....	5,640.3	5,650.3	5,646.1	5,657.5	5,670.9	5,672.2	5,769.4	5,792.0	5,753.7	5,755.2	5,744.4	5,734.2	5,730.2
Employed .....	5,368.3	5,378.1	5,370.3	5,379.3	5,383.6	5,388.0	5,478.3	5,474.5	5,482.1	5,480.6	5,482.0	5,494.4	5,490.2
Unemployed .....	272.0	272.2	275.8	278.1	287.3	284.2	291.1	317.5	271.5	274.6	262.4	239.8	240.0
Unemployment rate .....	4.8	4.8	4.9	4.9	5.1	5.0	5.0	5.5	4.7	4.8	4.6	4.2	4.2
<b>Oklahoma</b>													
Civilian labor force .....	1,578.6	1,582.0	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	1,602.4
Employed .....	1,515.0	1,519.2	1,520.0	1,524.9	1,528.4	1,528.8	1,540.8	1,551.8	1,544.3	1,543.3	1,545.2	1,539.4	1,542.2
Unemployed .....	63.6	62.9	63.2	62.6	62.3	61.3	61.4	54.2	56.8	54.8	56.0	59.0	60.3
Unemployment rate .....	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.4	3.5	3.4	3.5	3.7	3.8
<b>Oregon</b>													
Civilian labor force .....	1,716.3	1,712.0	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	1,698.8	1,708.2
Employed .....	1,613.4	1,610.2	1,621.2	1,624.4	1,630.3	1,633.3	1,636.2	1,608.7	1,614.2	1,633.0	1,622.8	1,610.3	1,616.2
Unemployed .....	103.0	101.8	103.7	105.4	108.4	109.8	94.8	95.4	99.5	97.3	85.4	88.5	90.0
Unemployment rate .....	6.0	5.9	6.0	6.1	6.2	6.3	5.5	5.8	5.8	5.6	5.0	5.1	5.3
<b>Pennsylvania</b>													
Civilian labor force .....	5,909.4	5,909.9	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	6,009.4
Employed .....	5,601.5	5,607.8	5,615.8	5,627.8	5,637.4	5,647.4	5,681.5	5,688.8	5,678.3	5,664.6	5,694.3	5,670.4	5,692.1
Unemployed .....	307.9	302.3	299.7	294.5	289.0	287.2	277.6	292.2	302.2	313.4	309.9	322.5	317.3
Unemployment rate .....	5.2	5.1	5.1	5.0	4.9	4.8	4.7	4.9	5.1	5.2	5.2	5.4	5.3
<b>Rhode Island</b>													
Civilian labor force .....	495.9	497.3	498.9	499.5	500.9	500.7	497.9	495.3	498.2	500.7	501.3	503.1	504.0
Employed .....	471.7	472.9	474.7	475.4	475.9	475.9	473.4	472.2	473.9	474.8	472.8	473.5	478.3
Unemployed .....	24.1	24.5	24.2	24.1	25.0	24.9	24.5	23.1	24.3	25.8	28.5	29.6	27.8
Unemployment rate .....	4.9	4.9	4.9	4.8	5.0	5.0	4.9	4.7	4.9	5.2	5.7	5.9	5.5

See footnotes at end of table.

**STATE LABOR FORCE DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State	1996						1997						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>
<b>South Carolina</b>													
Civilian labor force .....	1,848.3	1,844.1	1,845.1	1,845.2	1,846.7	1,846.0	1,886.4	1,885.8	1,893.7	1,886.2	1,892.0	1,904.8	1,903.6
Employed .....	1,732.8	1,730.8	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	1,816.7
Unemployed .....	113.5	113.5	114.7	115.0	114.4	112.3	104.5	103.7	99.6	87.4	91.1	96.9	86.9
Unemployment rate .....	6.1	6.2	6.2	6.2	6.2	6.1	5.5	5.5	5.3	4.6	4.8	5.1	4.6
<b>South Dakota</b>													
Civilian labor force .....	389.9	390.4	390.6	391.1	392.0	392.3	391.4	390.1	390.7	389.7	391.3	391.5	391.6
Employed .....	377.3	377.9	378.1	378.7	379.2	379.3	379.2	379.3	379.5	379.1	380.9	380.5	380.9
Unemployed .....	12.5	12.5	12.5	12.4	12.8	13.0	12.2	10.7	11.2	10.6	10.4	10.9	10.7
Unemployment rate .....	3.2	3.2	3.2	3.2	3.3	3.3	3.1	2.7	2.9	2.7	2.7	2.8	2.7
<b>Tennessee</b>													
Civilian labor force .....	2,752.0	2,753.2	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	2,773.1
Employed .....	2,611.6	2,615.7	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	2,621.4
Unemployed .....	140.5	137.5	138.1	141.1	143.8	140.8	139.4	137.0	142.2	139.6	135.4	145.4	151.7
Unemployment rate .....	5.1	5.0	5.0	5.1	5.2	5.1	5.1	5.0	5.2	5.1	4.9	5.3	5.5
<b>Texas</b>													
Civilian labor force .....	9,744.2	9,755.8	9,768.2	9,785.9	9,804.0	9,806.5	9,883.4	9,918.4	9,935.6	9,907.1	9,931.6	9,932.8	9,933.4
Employed .....	9,196.4	9,219.6	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	9,393.0
Unemployed .....	547.8	536.3	532.5	525.7	529.4	519.6	535.3	560.6	581.6	545.4	537.8	537.4	540.3
Unemployment rate .....	5.6	5.5	5.5	5.4	5.4	5.3	5.4	5.7	5.9	5.5	5.4	5.4	5.4
<b>Utah</b>													
Civilian labor force .....	999.9	1,003.2	1,005.1	1,007.9	1,010.7	1,013.0	1,034.5	1,037.2	1,041.1	1,048.7	1,048.6	1,047.6	1,049.9
Employed .....	965.0	968.1	970.0	973.0	976.0	979.0	1,001.7	1,004.1	1,011.6	1,014.9	1,017.0	1,014.8	1,018.8
Unemployed .....	34.9	35.2	35.1	35.0	34.7	33.9	32.8	33.1	29.6	31.8	31.8	33.0	31.3
Unemployment rate .....	3.5	3.5	3.5	3.5	3.4	3.4	3.2	3.2	2.8	3.0	3.0	3.1	3.0
<b>Vermont</b>													
Civilian labor force .....	323.4	324.4	324.8	325.4	325.9	325.8	328.0	329.0	328.5	328.0	328.4	328.9	329.4
Employed .....	308.4	309.5	309.8	310.4	310.8	310.9	315.0	318.1	315.6	315.3	315.8	316.5	316.8
Unemployed .....	15.0	15.0	14.9	15.0	15.2	14.9	12.9	12.9	12.9	12.7	12.6	12.4	12.8
Unemployment rate .....	4.6	4.8	4.6	4.6	4.7	4.6	3.9	3.9	3.9	3.9	3.8	3.8	3.8
<b>Virginia</b>													
Civilian labor force .....	3,376.1	3,370.1	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	3,533.4
Employed .....	3,226.7	3,223.6	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	3,385.1
Unemployed .....	149.4	146.5	147.9	146.4	145.0	143.2	143.1	148.6	147.6	153.8	150.9	150.7	148.4
Unemployment rate .....	4.4	4.3	4.4	4.3	4.3	4.2	4.1	4.2	4.2	4.4	4.3	4.3	4.2
<b>Washington</b>													
Civilian labor force .....	2,905.1	2,895.2	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	2,980.3
Employed .....	2,716.4	2,708.1	2,703.0	2,716.6	2,722.0	2,725.2	2,753.1	2,771.4	2,788.4	2,795.9	2,802.7	2,807.2	2,839.1
Unemployed .....	188.7	187.1	188.3	187.2	184.7	183.1	165.7	146.2	142.8	150.6	140.9	143.8	141.2
Unemployment rate .....	6.5	6.5	6.5	6.4	6.4	6.3	5.7	5.0	4.9	5.1	4.8	4.9	4.7
<b>West Virginia</b>													
Civilian labor force .....	806.3	808.5	811.2	813.9	814.7	814.1	803.3	807.8	804.8	809.5	796.1	802.3	806.8
Employed .....	748.3	749.5	750.8	753.0	753.9	753.5	745.9	747.0	748.5	749.1	748.3	750.9	753.0
Unemployed .....	57.9	59.0	60.4	60.9	60.8	60.6	57.4	60.8	56.3	60.4	47.9	51.3	53.8
Unemployment rate .....	7.2	7.3	7.5	7.5	7.5	7.4	7.1	7.5	7.0	7.5	6.0	6.4	6.7
<b>Wisconsin</b>													
Civilian labor force .....	2,921.4	2,926.2	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	2,930.7
Employed .....	2,817.5	2,824.3	2,826.6	2,835.8	2,841.6	2,842.6	2,822.5	2,824.7	2,816.9	2,819.3	2,815.8	2,816.7	2,820.0
Unemployed .....	103.9	101.9	100.1	98.5	99.8	101.7	106.4	102.1	101.4	100.2	98.9	104.7	110.7
Unemployment rate .....	3.6	3.5	3.4	3.4	3.4	3.5	3.6	3.5	3.5	3.4	3.4	3.6	3.8
<b>Wyoming</b>													
Civilian labor force .....	258.3	258.4	257.9	257.8	257.9	258.1	256.7	256.1	256.2	257.6	257.0	257.5	258.2
Employed .....	245.0	245.2	244.9	244.9	245.0	245.1	245.0	244.8	244.8	244.9	244.8	244.8	245.6
Unemployed .....	13.3	13.2	13.0	12.9	12.9	13.1	11.8	11.3	11.5	12.7	12.3	12.7	12.6
Unemployment rate .....	5.2	5.1	5.0	5.0	5.0	5.1	4.6	4.4	4.5	4.9	4.8	4.9	4.9

<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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>Alabama</b> .....	2,100.1	2,124.7	2,116.2	114.8	115.3	109.6	5.5	5.4	5.2
Birmingham .....	450.1	459.2	457.8	14.3	16.7	15.2	3.2	3.6	3.3
Huntsville .....	164.7	165.0	165.9	8.3	5.1	7.2	5.1	3.1	4.4
Mobile .....	260.7	269.0	267.7	14.0	14.3	12.6	5.4	5.3	4.7
Montgomery .....	157.1	159.0	159.1	6.3	7.2	6.6	4.0	4.5	4.1
Tuscaloosa .....	77.2	78.3	78.5	3.0	3.0	2.7	3.9	3.8	3.4
<b>Alaska</b> .....	330.0	329.7	336.9	21.7	22.0	20.3	6.6	6.7	6.0
Anchorage .....	138.3	140.1	141.2	6.9	7.1	6.7	5.0	5.1	4.7
<b>Arizona</b> .....	2,270.9	2,296.5	2,301.4	146.9	112.0	112.3	6.5	4.9	4.9
Phoenix-Mesa .....	1,472.2	1,505.0	1,515.7	61.3	45.5	45.0	4.2	3.0	3.0
Tucson .....	380.4	381.0	372.8	15.7	12.8	12.4	4.1	3.4	3.3
<b>Arkansas</b> .....	1,257.9	1,267.3	1,269.6	73.9	66.4	73.8	5.9	5.2	5.8
Fayetteville-Springdale-Rogers .....	141.0	143.5	143.9	5.0	4.7	5.0	3.5	3.3	3.5
Fort Smith .....	98.9	97.7	98.9	5.0	4.7	5.3	5.1	4.8	5.3
Little Rock-North Little Rock .....	303.5	307.3	307.8	12.7	12.7	13.4	4.2	4.1	4.3
Pine Bluff .....	37.8	38.2	38.2	3.2	3.2	3.4	8.5	8.3	9.0
<b>California</b> .....	15,787.7	15,864.6	18,044.7	1,203.6	1,001.5	1,059.2	7.6	6.3	6.6
Bakersfield .....	288.5	297.3	301.3	33.0	33.9	32.2	11.4	11.4	10.7
Fresno .....	441.7	425.8	437.5	51.7	53.4	52.9	11.7	12.5	12.1
Los Angeles-Long Beach .....	4,460.1	4,438.0	4,538.5	409.9	311.9	336.5	9.2	7.0	7.4
Modesto .....	203.6	203.0	206.9	26.4	27.3	25.5	13.0	13.4	12.3
Oakland .....	1,158.1	1,159.9	1,167.6	62.2	52.8	56.3	5.4	4.6	4.8
Orange County .....	1,354.1	1,373.5	1,380.6	61.2	48.5	49.9	4.5	3.4	3.6
Riverside-San Bernardino .....	1,321.8	1,358.6	1,382.3	118.2	95.2	108.7	8.8	7.0	8.0
Sacramento .....	733.4	737.9	746.9	46.1	41.4	42.4	6.3	5.6	5.7
Salinas .....	183.0	184.9	186.4	14.3	13.4	13.3	7.8	7.2	7.1
San Diego .....	1,249.2	1,256.7	1,258.1	72.1	58.6	58.3	5.8	4.5	4.6
San Francisco .....	917.5	926.0	938.9	41.3	32.8	35.2	4.5	3.5	3.8
San Jose .....	911.7	930.7	942.8	34.4	29.1	30.9	3.8	3.1	3.3
Santa Barbara-Santa Maria-Lompoc .....	195.1	194.5	193.5	10.0	8.2	8.8	5.1	4.2	4.6
Santa Rosa .....	228.6	235.5	234.5	10.7	9.1	9.6	4.7	3.6	4.1
Stockton-Lodi .....	245.6	248.7	249.4	25.9	26.9	25.2	10.8	10.8	10.1
Vallejo-Fairfield-Napa .....	237.2	237.3	240.1	17.2	14.6	15.4	7.3	6.2	8.4
Ventura .....	387.2	384.9	386.3	31.1	22.8	28.8	8.0	5.9	7.5
<b>Colorado</b> .....	2,124.7	2,181.6	2,193.4	92.2	85.8	68.9	4.3	3.9	3.1
Boulder-Longmont .....	162.8	167.0	169.4	8.5	5.9	4.8	4.0	3.5	2.8
Colorado Springs .....	243.3	253.5	253.4	12.0	11.4	9.5	4.9	4.5	3.7
Denver .....	1,062.8	1,090.0	1,099.5	41.7	36.8	29.8	3.9	3.4	2.7
<b>Connecticut</b> .....	1,775.8	1,774.5	1,802.2	109.7	95.3	95.7	6.2	5.4	5.3
Bridgeport .....	225.8	225.5	227.8	16.6	14.4	14.2	7.4	6.4	6.2
Danbury .....	110.2	111.3	112.2	4.8	3.9	4.3	4.4	3.5	3.9
Hartford .....	605.5	601.2	608.0	39.8	34.0	34.0	6.8	5.7	5.6
New Haven-Meriden .....	282.0	280.1	284.9	18.4	15.8	15.7	6.5	5.6	5.5
New London-Norwich .....	160.4	163.3	168.1	9.3	9.4	9.2	5.8	5.8	5.5
Stamford-Newark .....	199.3	199.2	203.9	7.8	6.7	6.6	3.9	3.4	3.3
Waterbury .....	121.2	122.8	124.8	6.4	7.3	7.5	7.0	6.0	6.0
<b>Delaware</b> .....	388.3	394.8	396.7	19.9	17.0	16.9	5.1	4.3	4.3
Dover .....	68.6	71.5	71.0	3.7	3.4	3.3	5.3	4.8	4.7
Wilmington-Newark .....	289.5	291.8	290.9	17.8	14.5	13.8	6.1	5.0	4.7
<b>District of Columbia</b> .....	283.1	262.6	269.2	26.0	20.5	21.5	9.2	7.8	8.0
Washington .....	2,608.3	2,593.0	2,633.4	100.8	98.0	92.3	3.9	3.8	3.5
<b>Florida</b> .....	7,046.8	7,215.6	7,243.3	383.4	378.3	361.7	5.4	5.2	5.0
Daytona Beach .....	191.0	193.4	194.5	7.8	7.7	7.1	4.1	4.0	3.7
Fort Lauderdale .....	745.8	768.6	766.7	39.4	40.0	36.2	5.3	5.2	4.7
Fort Myers-Cape Coral .....	170.7	171.4	172.4	6.8	6.3	5.9	4.0	3.6	3.4
Gainesville .....	101.5	102.1	103.1	3.0	3.5	3.0	2.9	3.4	2.9
Jacksonville .....	523.5	537.1	542.5	20.9	21.5	19.8	4.0	4.0	3.6
Lakeland-Winter Haven .....	197.1	203.3	202.4	17.5	15.1	16.9	8.9	7.4	8.4
Melbourne-Titusville-Palm Bay .....	203.1	200.9	204.9	10.8	9.7	9.1	5.3	4.8	4.4
Miami .....	1,049.3	1,064.3	1,067.3	77.9	84.2	76.2	7.4	7.9	7.1
Orlando .....	792.3	825.6	832.3	31.2	30.7	29.7	3.9	3.7	3.6
Pensacola .....	169.7	173.3	173.3	6.4	7.9	7.0	3.8	4.5	4.0
Sarasota-Bradenton .....	244.8	256.4	257.7	8.6	7.1	7.6	3.5	2.8	2.9
Tallahassee .....	144.5	146.2	147.8	4.7	5.3	4.6	3.2	3.6	3.1
Tampa-St. Petersburg-Clearwater .....	1,115.5	1,140.6	1,147.9	44.9	43.4	40.7	4.0	3.8	3.5
West Palm Beach-Boca Raton .....	470.1	483.8	484.1	35.9	34.0	34.2	7.6	7.0	7.1

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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>Georgia</b> .....	3,810.4	3,898.4	3,903.1	189.0	191.1	186.1	5.0	4.9	4.8
Albany .....	55.7	58.2	58.1	3.8	4.1	3.9	6.9	7.1	6.7
Athens .....	70.5	73.4	71.4	2.5	2.2	2.4	3.5	2.9	3.3
Atlanta .....	2,016.2	2,063.1	2,067.1	78.4	82.7	79.0	3.9	4.0	3.8
Augusta-Aiken .....	204.8	210.3	210.4	14.9	14.8	13.7	7.3	7.0	6.5
Columbus .....	115.8	120.9	120.3	6.2	6.2	6.2	5.4	5.1	5.2
Macon .....	147.3	152.5	151.5	7.1	7.9	7.3	4.9	5.2	4.8
Savannah .....	129.8	134.6	133.8	7.2	7.4	6.8	5.5	5.5	5.1
<b>Hawaii</b> .....	598.5	597.1	603.8	40.3	39.7	39.3	6.7	6.8	6.5
Honolulu .....	430.7	430.2	432.2	23.9	22.9	22.9	5.6	5.3	5.3
<b>Idaho</b> .....	831.3	850.8	853.0	28.5	27.5	28.4	4.5	4.2	4.4
Boise City .....	205.5	218.1	215.9	7.6	7.0	7.5	3.7	3.3	3.5
<b>Illinois</b> .....	6,194.3	6,219.0	6,228.8	323.5	287.7	281.8	5.2	4.6	4.5
Bloomington-Normal .....	78.7	79.5	79.5	2.4	2.1	2.0	3.0	2.6	2.5
Champaign-Urbana .....	94.5	92.8	92.7	2.9	2.7	3.1	3.1	2.9	3.3
Chicago .....	4,117.8	4,142.8	4,157.9	205.1	180.0	178.1	5.0	4.3	4.2
Davenport-Moline-Rock Island .....	186.2	187.6	188.3	7.7	8.5	8.0	4.1	3.5	3.2
Decatur .....	61.8	60.7	60.8	5.1	4.5	4.3	8.3	7.4	7.1
Kankakee .....	52.9	53.1	53.2	2.9	2.9	2.7	5.5	5.4	5.1
Peoria-Pekin .....	181.4	179.7	179.2	11.0	7.8	7.3	6.1	4.3	4.1
Rockford .....	197.0	198.3	198.1	8.8	12.1	11.8	4.5	6.1	5.9
Springfield .....	108.2	108.8	108.5	4.8	4.6	4.4	4.5	4.3	4.1
<b>Indiana</b> .....	3,111.7	3,154.6	3,168.1	128.7	101.3	104.3	4.1	3.2	3.3
Bloomington .....	58.8	60.9	60.8	1.9	1.5	1.3	3.3	2.4	2.2
Elkhart-Goshen .....	95.9	95.9	96.8	3.8	2.7	2.9	4.0	2.8	3.0
Evansville-Henderson .....	157.2	159.0	160.9	6.6	6.5	7.8	4.2	4.1	4.8
Fort Wayne .....	267.6	268.8	271.1	9.5	7.3	7.8	3.5	2.7	2.9
Gary .....	303.4	309.3	307.5	15.1	11.7	10.9	5.0	3.8	3.5
Indianapolis .....	823.9	838.3	847.1	27.6	21.9	21.9	3.3	2.6	2.6
Kokomo .....	52.4	53.0	52.9	1.8	1.6	1.6	3.5	3.1	3.1
Lafayette .....	85.4	86.8	87.0	2.4	2.0	1.9	2.8	2.3	2.2
Muncie .....	61.0	64.8	65.1	3.0	2.2	2.4	4.9	3.5	3.7
South Bend .....	138.1	141.0	141.8	6.1	4.1	4.1	4.4	2.9	2.9
Terre Haute .....	72.3	72.7	73.0	4.4	4.0	3.8	6.0	5.5	5.2
<b>Iowa</b> .....	1,619.9	1,632.3	1,619.9	55.5	48.8	37.6	3.4	3.0	2.3
Cedar Rapids .....	109.8	111.2	110.9	2.9	2.7	2.0	2.7	2.4	1.8
Des Moines .....	262.2	283.4	284.2	7.4	6.4	4.8	2.8	2.4	1.8
Dubuque .....	50.7	50.8	50.3	2.7	1.8	1.3	5.4	3.5	2.8
Iowa City .....	83.8	85.6	83.5	1.9	1.7	1.4	2.9	2.7	2.1
Sioux City .....	68.1	67.8	67.8	2.3	2.3	1.9	3.4	3.4	2.8
Waterloo-Cedar Falls .....	68.1	68.0	68.4	2.9	2.6	2.0	4.3	3.8	3.0
<b>Kansas</b> .....	1,357.8	1,408.8	1,411.5	58.3	56.5	52.0	4.3	4.0	3.7
Lawrence .....	49.0	48.8	49.8	2.6	2.5	2.3	5.3	5.1	4.6
Topeka .....	91.7	91.9	91.9	4.3	4.6	4.1	4.7	5.0	4.5
Wichita .....	271.4	280.2	283.5	11.8	10.2	9.8	4.3	3.6	3.5
<b>Kentucky</b> .....	1,906.3	1,960.4	1,966.3	105.4	104.1	102.2	5.5	5.3	5.2
Lexington .....	243.7	256.4	256.0	6.0	7.0	6.3	2.5	2.7	2.4
Louisville .....	545.2	561.2	567.5	25.4	22.6	23.9	4.7	4.0	4.2
Owensboro .....	48.4	51.1	51.2	2.4	3.2	3.2	4.9	6.2	6.3
<b>Louisiana</b> .....	2,049.9	2,051.6	2,051.5	148.9	147.0	139.7	7.3	7.2	6.8
Alexandria .....	61.2	59.8	59.5	4.9	4.2	4.5	8.0	7.1	7.6
Baton Rouge .....	294.3	301.5	302.7	19.6	19.4	18.6	6.6	6.4	6.1
Houma .....	86.1	88.8	89.6	3.9	3.7	3.5	4.6	4.2	3.9
Lafayette .....	171.7	174.4	175.5	10.7	10.3	9.7	8.2	5.9	5.5
Lake Charles .....	90.0	89.2	89.8	5.7	6.9	6.5	8.3	7.7	7.2
Monroe .....	70.5	70.8	70.5	4.9	5.4	5.0	7.0	7.6	7.1
New Orleans .....	826.4	823.7	826.8	43.5	40.5	39.2	6.9	6.5	6.3
Shreveport-Bossier City .....	187.3	188.3	188.7	14.2	14.6	13.7	7.8	7.7	7.3
<b>Maine</b> .....	688.6	685.1	686.4	27.7	31.4	26.8	4.0	4.6	3.9
Lewiston-Auburn .....	51.9	52.5	52.3	2.8	2.6	2.5	5.4	5.0	4.8
Portland .....	137.2	133.3	136.3	3.1	3.4	2.9	2.2	2.5	2.1

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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>Maryland</b> .....	2,887.2	2,820.1	2,845.7	135.8	142.6	131.4	4.7	5.1	4.6
Baltimore .....	1,349.8	1,329.5	1,337.0	73.4	75.7	71.6	5.4	5.7	5.4
<b>Massachusetts</b> .....	3,240.8	3,278.0	3,288.2	135.8	134.2	128.9	4.2	4.1	3.9
Barnstable-Yarmouth .....	83.2	78.1	83.0	2.7	3.1	2.7	3.2	4.0	3.3
Boston .....	1,791.0	1,814.4	1,826.2	65.5	65.4	61.9	3.7	3.6	3.4
Brockton .....	129.2	128.8	128.4	7.1	6.7	6.4	5.5	5.2	5.0
Fitchburg-Leominster .....	68.5	69.6	69.1	3.9	3.7	3.7	5.7	5.4	5.4
Lawrence .....	194.2	199.7	198.7	11.0	10.5	9.9	5.6	5.3	5.0
Lowell .....	156.0	158.3	157.9	8.7	8.3	8.4	4.3	4.0	4.0
New Bedford .....	81.4	82.6	82.8	8.6	5.9	6.2	8.1	7.2	7.5
Pittsfield .....	41.8	41.4	41.9	2.0	2.0	1.8	4.7	4.9	4.3
Springfield .....	279.1	281.9	280.5	11.9	11.9	11.6	4.3	4.2	4.1
Worcester .....	246.1	251.5	251.7	9.9	9.5	9.2	4.0	3.8	3.7
<b>Michigan</b> .....	4,876.5	4,941.2	4,937.9	271.2	215.6	224.0	5.6	4.4	4.5
Ann Arbor .....	278.2	280.7	280.8	9.7	7.2	8.3	3.5	2.6	3.0
Benton Harbor .....	83.0	84.2	82.3	5.4	5.3	3.8	8.5	8.2	4.7
Detroit .....	2,198.1	2,227.4	2,232.9	125.0	89.7	107.0	5.7	4.0	4.8
Flint .....	201.8	203.5	202.6	15.8	11.8	13.4	7.8	5.8	8.6
Grand Rapids-Muskegon-Holland .....	564.8	576.4	576.3	26.9	21.3	20.3	4.8	3.7	3.5
Jackson .....	75.1	76.0	75.2	4.1	3.8	3.1	5.5	4.9	4.1
Kalamazoo-Battle-Creek .....	223.1	226.3	224.7	10.9	11.2	9.2	4.9	4.9	4.1
Lansing-East Lansing .....	232.0	232.9	232.9	9.2	7.1	6.8	4.0	3.0	2.9
Saginaw-Bay City-Midland .....	192.5	198.2	196.9	9.3	9.0	7.8	4.8	4.5	3.9
<b>Minnesota</b> .....	2,644.0	2,699.8	2,699.5	102.0	96.9	77.4	3.9	3.6	2.9
Duluth-Superior .....	126.1	127.8	128.5	6.7	7.0	5.5	5.3	5.5	4.3
Minneapolis-St. Paul .....	1,646.0	1,873.7	1,686.1	51.0	48.0	39.3	3.1	2.9	2.3
Rochester .....	68.1	67.7	68.6	1.9	1.7	1.3	2.9	2.5	1.9
St. Cloud .....	92.6	92.8	92.9	4.5	3.9	2.9	4.9	4.2	3.1
<b>Mississippi</b> .....	1,278.4	1,285.2	1,289.4	82.7	79.1	69.3	6.5	6.2	5.4
Jackson .....	224.0	228.0	230.5	8.7	8.8	7.7	3.9	3.8	3.3
<b>Missouri</b> .....	2,948.9	2,909.1	2,898.7	143.2	118.8	112.1	4.9	4.1	3.9
Kansas City .....	964.5	987.3	975.8	43.1	35.3	32.2	4.5	3.6	3.3
St. Louis LMA .....	1,385.7	1,367.5	1,378.6	68.0	55.2	58.8	4.8	4.0	4.3
Springfield .....	189.6	188.8	167.0	5.7	5.6	4.6	3.4	3.3	2.8
<b>Montana</b> .....	457.6	485.2	471.7	21.8	22.6	21.8	4.8	4.9	4.6
<b>Nebraska</b> .....	930.6	933.0	940.1	29.4	25.3	24.3	3.2	2.7	2.6
Lincoln .....	141.4	142.0	143.8	4.3	3.0	3.0	3.1	2.1	2.1
Omaha .....	384.1	390.2	392.2	11.8	11.8	10.8	3.1	3.0	2.8
<b>Nevada</b> .....	857.9	903.1	912.5	49.9	44.8	43.4	5.8	5.0	4.8
Las Vegas .....	642.2	684.4	690.8	39.0	33.8	33.3	8.1	4.9	4.8
Reno .....	171.0	174.1	176.7	8.1	7.3	6.7	4.7	4.2	3.8
<b>New Hampshire</b> .....	635.8	659.0	687.7	24.9	19.8	18.2	3.9	3.0	2.7
Manchester .....	98.8	100.4	101.0	3.3	2.8	2.5	3.5	2.8	2.5
Nashua .....	96.6	101.7	103.5	3.9	2.9	2.8	4.0	2.8	2.6
Portsmouth-Rochester .....	123.1	124.0	127.4	4.8	3.1	3.7	3.9	2.5	2.9
<b>New Jersey</b> .....	4,198.7	4,200.4	4,224.7	274.4	232.4	245.4	6.5	5.5	5.8
Atlantic-Cape May .....	188.7	184.5	192.3	14.5	14.0	13.9	7.7	7.8	7.2
Bergen-Passaic .....	676.5	677.8	675.7	48.6	39.0	40.7	8.9	5.8	8.0
Jersey City .....	289.6	288.9	291.4	28.9	25.3	25.4	10.0	8.8	8.7
Middlesex-Somerset-Hunterdon .....	620.5	626.1	630.9	31.1	24.7	27.8	5.0	4.0	4.4
Monmouth-Ocean .....	538.1	538.1	545.6	31.0	26.3	26.2	5.8	4.9	5.2
Newark .....	1,022.7	1,022.6	1,025.9	67.7	58.1	60.8	6.8	5.7	5.9
Trenton .....	169.1	169.1	167.5	10.4	8.1	9.0	6.2	4.8	5.4
Vineland-Millville-Bridgeton .....	64.6	65.3	65.3	8.3	6.0	5.7	9.7	9.1	8.8
<b>New Mexico</b> .....	811.0	832.9	833.6	71.8	62.3	56.9	8.9	7.5	6.8
Albuquerque .....	351.2	362.7	365.0	22.8	19.3	18.1	6.5	5.3	5.0
Las Cruces .....	65.9	68.5	67.7	6.8	6.5	5.8	10.3	9.5	8.5
Santa Fe .....	73.4	75.0	75.2	3.9	3.3	3.0	5.3	4.5	4.0

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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>New York</b> .....	8,854.1	8,845.2	8,978.2	584.5	544.1	585.8	6.4	6.2	6.5
Albany-Schenectady-Troy .....	456.2	454.6	459.8	20.8	15.8	18.1	4.6	3.5	3.9
Binghamton .....	123.1	126.6	127.4	5.3	4.4	4.9	4.3	3.5	3.8
Buffalo-Niagara Falls .....	588.4	584.5	595.9	31.0	27.2	32.7	5.3	4.7	5.5
Dutchess County .....	120.2	120.6	121.8	5.1	4.3	4.7	4.3	3.5	3.8
Elmira .....	44.8	45.9	46.2	1.9	1.9	2.2	4.3	4.0	4.8
Glens Falls .....	66.4	65.4	67.8	3.4	3.1	3.2	5.1	4.7	4.7
Nassau-Suffolk .....	1,408.1	1,418.0	1,435.8	64.7	50.5	61.9	4.6	3.8	4.3
New York .....	3,999.4	3,979.8	4,040.1	334.0	348.3	360.3	8.4	6.6	8.9
New York City .....	3,345.2	3,332.6	3,379.1	304.2	326.0	333.5	9.1	9.8	9.9
Newburgh .....	177.6	175.6	178.8	7.9	7.1	8.1	4.5	4.1	4.5
Rochester .....	584.7	589.5	595.7	23.5	20.5	23.8	4.0	3.5	4.0
Syracuse .....	371.4	369.9	374.8	16.8	14.7	16.2	4.5	4.0	4.3
Utica-Rome .....	146.7	145.3	148.3	7.5	6.6	7.1	5.1	4.6	4.8
<b>North Carolina</b> .....	3,888.8	3,858.8	3,894.6	173.6	153.5	154.4	4.5	4.0	4.0
Asheville .....	110.3	111.0	111.5	3.1	3.5	2.9	2.8	3.1	2.6
Charlotte-Gastonia-Rock Hill .....	752.3	747.8	758.1	29.2	28.9	25.7	3.9	3.6	3.4
Greensboro-Winston-Salem-High Point .....	642.9	634.3	640.9	22.3	19.8	20.2	3.5	3.1	3.1
Raleigh-Durham-Chapel Hill .....	589.9	591.2	599.5	14.3	13.4	12.4	2.4	2.3	2.1
<b>North Dakota</b> .....	356.2	362.5	359.6	10.4	11.1	8.7	2.9	3.1	2.4
Bismarck .....	54.8	55.7	54.6	1.3	1.5	1.2	2.3	2.7	2.1
Fargo-Moorhead .....	99.9	101.9	102.8	2.3	2.1	1.8	2.3	2.1	1.8
Grand Forks .....	58.5	57.7	58.7	2.3	3.1	2.2	4.2	5.4	3.9
<b>Ohio</b> .....	5,750.0	5,808.7	5,836.4	277.7	248.4	241.8	4.8	4.3	4.1
Akron .....	381.9	385.5	367.8	14.9	14.8	13.7	4.1	4.0	3.7
Canton-Massillon .....	203.8	206.0	208.3	10.2	9.0	8.2	5.0	4.4	4.0
Cincinnati .....	840.5	847.4	853.5	35.5	30.9	27.6	4.2	3.8	3.2
Cleveland-Lorain-Elyria .....	1,130.6	1,139.9	1,145.9	58.8	48.8	46.4	5.2	4.3	4.1
Columbus .....	810.5	820.5	826.4	24.2	22.7	20.3	3.0	2.8	2.5
Dayton-Springfield .....	478.1	482.3	483.3	22.2	19.0	18.2	4.6	3.9	3.8
Hamilton-Middletown .....	185.8	188.5	187.2	6.5	5.8	5.2	3.9	3.5	3.1
Lima .....	77.5	78.2	78.7	5.0	3.8	3.8	6.5	4.9	4.9
Mansfield .....	86.6	87.2	88.4	5.3	4.6	4.6	6.2	5.2	5.2
Steubenville-Weirton .....	58.0	58.8	57.4	3.4	7.0	8.0	5.7	12.0	10.4
Toledo .....	317.9	318.7	318.8	15.5	14.5	18.6	4.9	4.5	5.9
Youngstown-Warren .....	285.0	288.7	291.1	16.3	15.8	15.7	5.7	5.4	5.4
<b>Oklahoma</b> .....	1,599.5	1,612.1	1,622.1	58.5	58.9	55.2	3.7	3.7	3.4
Enid .....	27.7	27.3	27.7	.9	.9	.8	3.2	3.2	2.9
Lawton .....	41.7	42.4	42.0	1.7	1.9	1.7	4.1	4.5	4.1
Oklahoma City .....	528.1	528.1	531.0	16.0	15.5	14.7	3.0	2.9	2.8
Tulsa .....	401.3	403.4	411.0	11.8	12.5	11.8	2.9	3.1	2.9
<b>Oregon</b> .....	1,751.2	1,733.7	1,737.1	99.0	89.8	85.7	5.7	5.2	4.9
Eugene-Springfield .....	159.0	159.9	158.0	8.4	7.8	7.8	5.3	4.9	4.9
Medford-Ashland .....	86.1	84.4	83.3	7.2	8.2	5.7	8.4	7.3	6.8
Portland-Vancouver .....	1,024.4	1,018.0	1,028.8	47.7	40.8	40.4	4.7	4.0	3.9
Salem .....	186.6	187.0	185.1	9.3	8.8	8.0	5.6	5.3	4.9
<b>Pennsylvania</b> .....	6,016.0	6,082.1	6,119.8	319.9	319.6	331.2	5.3	5.3	5.4
Allentown-Bethlehem-Easton .....	310.1	312.1	314.3	17.0	18.1	17.0	5.5	5.2	5.4
Altoona .....	83.7	83.4	84.2	3.7	3.5	3.5	5.8	5.5	5.5
Erie .....	141.4	143.1	144.8	8.3	8.4	8.2	5.9	5.9	5.7
Harrisburg-Lebanon-Carlisle .....	353.8	357.2	360.8	12.0	12.2	12.9	3.4	3.4	3.8
Johnstown .....	108.4	109.7	110.1	8.0	8.3	8.4	7.4	7.8	7.7
Lancaster .....	241.7	242.8	247.2	8.5	7.8	7.8	3.5	3.1	3.1
Philadelphia .....	2,508.8	2,520.0	2,537.2	137.4	125.8	133.8	5.5	5.0	5.3
Pittsburgh .....	1,168.7	1,176.3	1,185.2	58.3	60.4	61.2	5.0	5.1	5.2
Reading .....	182.4	187.8	188.8	7.7	8.8	9.1	4.2	4.6	4.8
Scranton-Wilkes-Barre-Hazleton .....	316.0	318.4	322.0	22.4	23.0	25.3	7.1	7.2	7.9
Sharon .....	56.4	58.8	58.8	2.4	3.4	3.3	4.2	5.8	5.7
State College .....	83.7	83.5	84.9	1.9	1.8	2.2	3.0	2.9	3.4
Williamsport .....	58.4	60.1	60.7	3.5	3.7	3.7	6.1	8.2	6.0
York .....	195.9	196.0	198.5	8.8	8.8	8.6	4.5	4.5	4.3
<b>Rhode Island</b> .....	499.9	505.2	507.7	22.9	27.0	28.7	4.6	5.3	5.3
Providence-Fall River-Warwick .....	589.0	575.3	575.1	29.7	32.2	32.4	5.2	5.6	5.6

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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>South Carolina</b> .....	1,886.2	1,937.9	1,943.9	126.2	101.3	99.9	6.7	5.2	5.1
Charleston-North Charleston .....	248.8	257.6	259.0	15.5	13.5	11.9	6.2	5.2	4.6
Columbia .....	264.0	274.3	276.2	10.7	8.5	8.0	4.0	3.1	2.9
Greenville-Spartanburg-Anderson .....	479.8	497.1	501.5	24.7	18.0	16.9	5.2	3.6	3.8
<b>South Dakota</b> .....	402.5	402.3	404.2	11.8	11.3	10.0	2.9	2.8	2.5
Rapid City .....	47.8	46.2	48.6	1.2	1.2	1.1	2.5	2.5	2.2
Sioux Falls .....	96.4	97.0	97.7	1.7	1.7	1.4	1.8	1.7	1.5
<b>Tennessee</b> .....	2,766.1	2,794.1	2,806.6	152.9	162.5	165.1	5.5	5.8	5.9
Chattanooga .....	222.3	223.6	223.8	10.5	13.5	11.5	4.7	6.0	5.1
Johnson City-Kingsport-Bristol .....	231.1	230.6	234.4	12.3	13.5	14.3	5.3	5.9	6.1
Knoxville .....	354.0	348.8	349.2	14.7	15.5	14.4	4.1	4.5	4.1
Memphis .....	541.8	546.4	547.2	23.2	27.8	25.0	4.3	5.1	4.6
Nashville .....	628.9	629.6	632.0	21.0	24.9	23.4	3.3	3.9	3.7
<b>Texas</b> .....	9,899.8	10,069.8	10,084.5	586.8	618.1	578.7	5.9	6.1	5.7
Abilene .....	60.6	80.8	61.0	3.1	2.9	2.7	5.0	4.7	4.4
Amarillo .....	113.2	118.0	116.4	4.5	5.2	4.7	4.0	4.5	4.0
Austin-San Marcos .....	638.0	643.4	641.5	20.4	22.7	21.2	3.2	3.5	3.3
Beaumont-Port Arthur .....	184.0	183.2	182.7	18.2	16.8	15.3	9.9	9.2	8.4
Brazoria .....	106.9	108.5	108.5	7.6	9.5	8.8	7.1	8.8	8.1
Brownsville-Harlingen-San Benito .....	129.6	130.1	129.5	19.5	18.5	17.5	15.0	14.2	13.5
Bryan-College Station .....	68.5	67.7	69.6	1.9	1.8	1.7	2.7	2.7	2.5
Corpus Christi .....	183.1	187.3	186.2	16.1	16.9	15.3	8.8	9.0	8.2
Dallas .....	1,791.5	1,842.9	1,854.0	73.9	78.8	75.1	4.1	4.3	4.1
El Paso .....	294.7	296.9	298.5	35.6	35.6	34.9	12.1	12.0	11.7
Fort Worth-Arlington .....	855.8	872.4	876.2	34.7	36.3	34.2	4.1	4.2	3.9
Galveston-Texas City .....	130.6	131.7	131.8	11.3	12.2	11.5	8.6	9.3	6.7
Houston .....	2,050.0	2,080.9	2,085.8	113.7	123.9	113.8	5.5	6.0	5.5
Killeen-Temple .....	114.7	116.3	116.4	5.5	6.9	6.2	4.8	5.9	5.4
Laredo .....	69.5	72.3	71.9	8.9	8.8	7.7	12.8	12.0	10.7
Longview-Marshall .....	103.8	104.8	104.8	8.3	9.0	8.4	8.0	8.5	8.0
Lubbock .....	124.5	125.9	127.4	6.0	6.9	6.4	4.8	5.5	5.0
McAllen-Edinburg-Mission .....	182.2	194.5	186.6	33.7	35.8	33.1	18.5	18.4	17.8
Odessa-Midland .....	121.4	121.8	121.9	7.6	7.7	6.9	6.2	6.3	5.7
San Angelo .....	51.6	51.6	52.5	1.8	2.1	3.1	3.5	4.1	6.0
San Antonio .....	745.4	754.7	756.2	37.8	37.5	34.6	5.1	5.0	4.6
Sherman-Denison .....	50.0	50.1	50.1	2.5	2.7	2.6	5.0	5.5	5.3
Texarkana .....	58.4	58.0	57.8	4.3	4.6	4.3	7.4	8.3	7.5
Tyler .....	89.2	90.2	90.5	6.2	5.7	5.4	7.0	6.3	6.0
Victoria .....	42.5	43.2	43.5	2.2	2.7	2.4	5.2	6.1	5.5
Waco .....	101.4	102.6	103.5	5.2	5.6	5.6	5.1	5.4	5.4
Wichita Falls .....	67.7	68.8	66.6	4.4	3.4	3.5	6.4	5.0	5.3
<b>Utah</b> .....	1,013.5	1,060.9	1,063.9	34.5	37.1	31.0	3.4	3.5	2.9
Provo-Orem .....	147.1	154.2	155.4	4.4	4.6	3.9	3.0	3.0	2.5
Salt Lake City-Ogden .....	654.8	684.6	688.5	20.6	22.8	19.2	3.1	3.3	2.8
<b>Vermont</b> .....	324.6	331.9	330.7	13.5	11.7	11.4	4.2	3.5	3.4
Burlington .....	95.9	99.1	97.9	3.0	2.4	2.4	3.1	2.4	2.5
<b>Virginia</b> .....	3,448.0	3,583.9	3,608.1	156.0	169.6	155.3	4.5	4.7	4.3
Charlottesville .....	71.9	78.0	78.5	1.8	2.0	1.8	2.5	2.7	2.1
Danville .....	56.9	60.0	59.5	4.8	5.1	5.3	8.4	8.5	8.9
Lynchburg .....	102.8	107.0	107.5	3.7	5.0	4.0	3.8	4.8	3.7
Norfolk-Virginia Beach-Newport News .....	732.1	784.4	766.8	38.6	46.9	41.0	5.0	6.1	5.4
Richmond-Petersburg .....	494.3	514.6	516.7	18.1	21.9	18.5	3.7	4.3	3.6
Roanoke .....	129.4	135.1	135.1	3.7	5.3	4.5	2.9	3.9	3.4
<b>Washington</b> .....	2,951.7	2,977.1	3,028.0	182.0	138.6	134.4	6.2	4.7	4.4
Seattle-Bellevue-Everett .....	1,294.4	1,328.1	1,354.0	63.2	45.0	44.0	4.9	3.4	3.3
Spokane .....	202.0	201.4	202.3	10.9	8.7	8.3	5.4	4.3	4.1
Tacoma .....	322.6	326.1	331.1	19.9	15.5	14.9	6.2	4.8	4.5

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		
	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>	July 1996	June 1997	July 1997 <sup>P</sup>
<b>West Virginia</b> .....	821.6	814.3	821.2	58.6	50.1	52.0	6.9	6.2	6.3
Charleston .....	133.9	132.2	133.5	8.4	5.9	5.9	4.8	4.4	4.4
Huntington-Ashland .....	136.0	140.4	142.0	8.7	9.8	8.8	6.4	7.0	6.2
Parkersburg-Marietta .....	78.4	78.0	78.3	4.5	3.9	3.7	5.8	5.0	4.7
Wheeling .....	73.9	75.2	76.8	3.7	5.2	4.4	5.0	6.9	5.7
<b>Wisconsin</b> .....	2,992.6	2,994.4	3,000.3	102.3	112.9	109.8	3.4	3.8	3.7
Appleton-Oshkosh-Neenah .....	226.9	224.9	225.7	5.8	7.1	6.8	2.6	3.1	2.9
Eau Claire .....	80.9	81.4	82.2	2.6	3.0	2.6	3.3	3.7	3.2
Green Bay .....	133.3	133.8	132.9	3.9	4.7	4.2	2.9	3.5	3.2
Janesville-Beloit .....	80.5	80.4	79.7	3.6	4.5	4.3	4.5	5.7	5.3
Kenosha .....	78.8	77.1	77.7	3.6	3.3	4.7	4.7	4.2	6.1
La Crosse .....	71.7	72.3	72.0	1.9	2.1	2.0	2.7	2.8	2.8
Madison .....	261.7	262.2	264.8	3.9	4.6	4.4	1.5	1.8	1.7
Milwaukee-Waukesha .....	819.1	821.8	824.2	29.1	32.4	33.0	3.5	3.9	4.0
Racine .....	96.9	97.0	98.6	4.5	4.3	5.4	4.6	4.5	5.4
Sheboygan .....	64.1	64.2	64.4	1.9	1.9	1.8	2.9	3.0	2.8
Wausau .....	72.9	72.9	73.4	2.5	2.5	2.3	3.4	3.5	3.2
<b>Wyoming</b> .....	263.4	262.8	263.3	12.0	11.3	11.3	4.6	4.3	4.3
Casper .....	32.8	33.1	33.5	2.0	1.8	1.8	6.0	5.4	5.5
<b>Puerto Rico</b> .....	1,307.3	1,324.6	1,322.5	187.7	194.0	192.2	14.4	14.6	14.5
Caguas .....	114.2	116.7	116.9	15.4	16.1	15.9	13.5	13.8	13.8
Mayaguez .....	95.0	94.8	94.6	15.1	15.5	17.8	15.9	18.3	18.8
Ponce .....	118.5	114.7	111.6	21.9	21.9	21.1	18.5	19.1	18.9
San Juan-Bayamon .....	711.4	714.7	715.7	81.8	83.9	82.1	11.5	11.7	11.5

<sup>P</sup> = preliminary.

be revised when new benchmark and population information becomes available.

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

# 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.

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

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

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

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

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



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

Characteristic	a	b
Labor force and not-in-labor-force data other than agricultural employment and unemployment:		
Total or white:		
Most characteristics .....	-0.000012482	2001.12
High correlation characteristics <sup>1</sup> .....	-.00009288	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
Agricultural employment:		
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
Unemployment: <sup>2</sup>		
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
Agricultural employment:					
Total or men .....	1.30	0.92	0.70	0.79	0.70
Women .....	1.30	.82	.84	.57	.70
Both sexes, 16 to 19 years .....	1.30	.78	.88	.49	.70
Part time .....	1.40	.80	.80	.59	.70
Unemployment:					
Total .....	1.40	.74	.88	.46	.65
Part time .....	1.40	.67	.88	.42	.54
Labor force and not-in-labor-force data other than agricultural employment and unemployment:					
Total or white .....	1.30	.87	.85	.65	.70
Black .....	1.30	.87	.84	.65	.70
Hispanic origin .....	1.30	.87	.80	.65	.70
Both sexes, 16 to 19 years .....	1.30	.79	.88	.54	.70
Part time .....	1.40	.82	.90	.51	.60

# Establishment Data ("B" tables)

## COLLECTION

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

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

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

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

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

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

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

graphic stratification and differences in the timing of benchmark adjustments.

## CONCEPTS

### Industrial classification

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

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

### Industry employment

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

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

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

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

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

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

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

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

### **Industry hours and earnings**

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

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

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

by members of the construction trades.

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

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

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

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

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

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

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

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

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

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

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

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

For each sample establishment in SIC 3721 and SIC 3761

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

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

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

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

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

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

## ESTIMATING METHODS

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

### Benchmarks

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

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

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

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

sample versus the full universe counts derived from the UI.

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

### Monthly estimation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 2-B summarizes bias adjustments for the 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.

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

If  $S_1 = S_2$ , then:

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

Conservative estimates of  $\rho$  after one month are 0.8 for employment, 0.6 for average weekly hours, and 0.8 for average hourly earnings.

If the bias is small, then the standard error can be used to construct approximate confidence intervals or range of values that include the true population value. If the process

of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for each sample, then approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the true population value.

*Noneconomic code changes.* A major source of benchmark revision at the major industry division level and below are noneconomic code changes, which are introduced into the universe data in the first quarter of each calendar year.

Approximately one-third of all establishments in the universe are included in the universe program's annual Standard Industrial Classification (SIC) refiling survey. Corrections to individual establishments' SIC and ownership codes are made through this process. The refiling cycle is such that every third year entire division(s) are subject to refiling. The volume of these adjustments is generally quite large and has a substantial impact on universe employment counts at the industry levels, although the total nonfarm employment level remains unaffected. For example, in a year when the services division is refiled, a substantial

**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 establi- shments	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.

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**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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