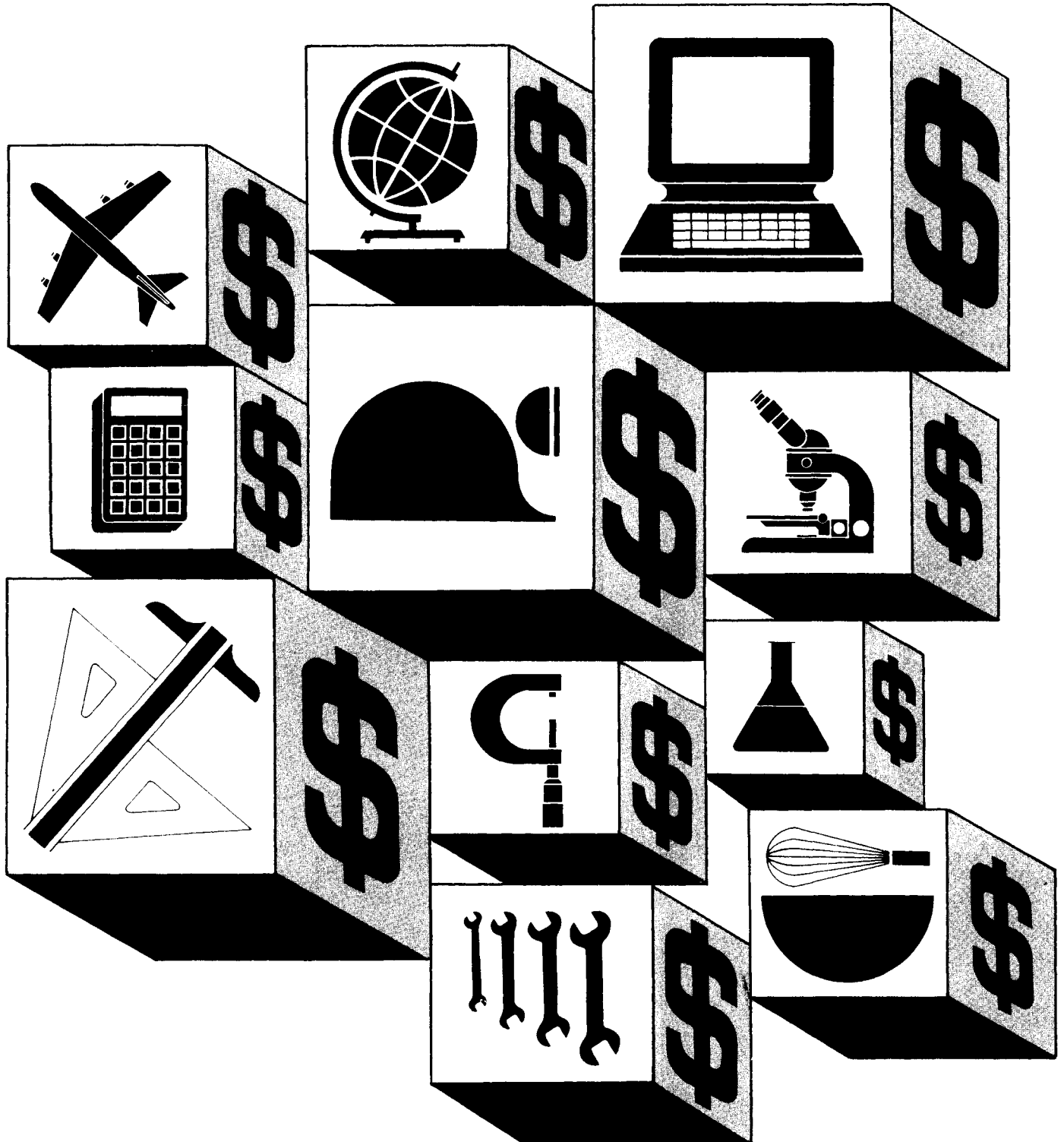


# EMPLOYMENT AND EARNINGS

U.S. Department of Labor  
Bureau of Labor Statistics  
November 1990





## U.S. DEPARTMENT OF LABOR

Elizabeth Dole, Secretary

### BUREAU OF LABOR STATISTICS

Janet L. Norwood, *Commissioner*

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## Calendar of Features

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

### Household data

Annual averages	Jan.
Union affiliation	Jan.
Earnings by detailed occupation	Jan.
Revised seasonally adjusted series	Jan., Feb.

Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-era veterans and nonveterans, family relationship data, weekly earnings data, and metropolitan-nonmetropolitan and poverty-nonpoverty area data

Jan., Apr., July, Oct.

### Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employees (final)	Mar.
National data revised to reflect new benchmarks and new seasonal adjustment factors	June <sup>1</sup>
Revised historical national data	( <sup>2</sup> )
State and area annual averages	May
Area definitions	May

### State and area labor force data

Annual averages	May
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<sup>1</sup> The September 1990 issue introduced March 1989 benchmarks.

<sup>2</sup> A historical bulletin is forthcoming.

# Employment and Earnings

Vol. 37 No. 11 November 1990

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Editors: Gloria Peterson Green, Rosalie K. Epstein

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# Employment and Unemployment Developments, October 1990

The nation's job market showed further weakness in October. Nonfarm payroll employment fell slightly, as large job losses in construction and manufacturing were only partly offset by gains in the services industry. The civilian worker unemployment rate held steady at 5.7 percent.

## Unemployment

After inching upward since June, both the number of unemployed, 7.1 million, and the civilian worker unemployment rate, 5.7 percent, were unchanged in October. The unemployment rate for all of the major worker groups—adult men (5.1 percent), adult women (4.9 percent), teenagers (16.2 percent), whites (4.9 percent), blacks (11.8 percent), and Hispanics (8.1 percent)—were little changed or unchanged in October. (See tables A-33 and A-34.)

The proportion of the unemployed who lost their last jobs was about unchanged in October. At 3.5 million, the number of job losers was about 400,000 higher than the June level. The number of persons working part time who would prefer full-time work (workers on part time for economic reasons) also was little changed in October but has risen by 450,000 since June. (See tables A-35 and A-41.)

## Civilian employment and the labor force

Total civilian employment edged down to 117.7 million in October. Employment had risen by 500,000 during the first half of the year but since then has dropped by nearly 700,000. The proportion of the working-age population that is employed (the employment-population ratio) was 62.4 percent in October. That measure had hovered around 63.0 percent during all of 1989 and the first half of 1990. (See table A-33.)

The civilian labor force, at 124.8 million, has shown no growth since spring, although the working-age population has continued to increase. As a result, the labor force participation rate has begun to inch down. Most of this declining participation has occurred among teenagers, but even the rate for adult women, which had been on a long upward trend, has been edging down in recent months. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment signaled continued weakness

in October, as substantial job losses in construction, manufacturing, and retail trade more than offset gains in services and State and local government. Total payroll employment edged down by 70,000 over the month, and, unlike recent months, temporary census workers accounted for a very small portion of that decrease. (See table B-4.)

Construction lost the most jobs in October, with a decline of 80,000 that was widespread throughout the industry. With building activity having slowed considerably, the industry has had decreases of 185,000 jobs over the last 5 months. Employment in mining was little changed over the month, despite a small increase in oil and gas extraction.

In manufacturing, employment declined by 60,000 in October, continuing a downward trend which has seen the number of jobs in the nation's factories drop by 175,000 in the last 3 months and by 580,000 since the peak level in January 1989. Durable goods industries have borne the brunt of these job losses, with widespread employment declines in October including losses in electronic equipment, fabricated metals, transportation equipment, lumber, and furniture. Reductions also occurred in several of the nondurable goods industries, including textiles, apparel, rubber and plastics, and leather.

In the service-producing sector, retail trade experienced a drop of 50,000 in October, following 2 months of smaller declines. Wholesale trade decreased by 10,000, as the problems in manufacturing and construction continue to affect adversely employment among the distributors of goods. The durable goods component of wholesale trade has lost 25,000 jobs since June.

Elsewhere in the service sector, the services industry itself added 95,000 jobs in October. As has been the case in recent months, health services accounted for most of this gain, but there were also increases in several other services industries in October, including social services and private education. Employment in business services edged down; this industry has shown no clear employment trend since May. Employment in State and local government rose over the month, mainly in education.

## Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls fell by half an hour in October to 34.2 hours, seasonally adjusted. The decline in hours was widespread across industries. In manufacturing,

the workweek declined by 0.3 hour to 40.8 hours, while overtime was unchanged at 3.7 hours. (See table C-5.)

Declines in both employment and the workweek resulted in steep declines in the indexes of aggregate weekly hours. The index for private production or nonsupervisory workers declined by 1.6 percent to 123.3 (1982 = 100) in October, seasonally adjusted. The construction index fell 5.6 percent to 132.4, and the index for manufacturing, at 105.8, was down about 1.0 percent over the month and 2.2 percent over the past year. (See table C-6.)

### Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls were unchanged in October at \$10.17. Average weekly earnings, however, were down 1.4 percent, seasonally adjusted, as a result of the sharp drop in weekly hours. Prior to seasonal adjustment, average weekly earnings decreased \$4.07 to \$349.85. Over the year, average hourly earnings rose 3.7 percent and average weekly earnings were up 2.5 percent. (See tables C-1 and C-7.)

#### Note on temporary census workers

The number of temporary workers associated with the 1990 census has an impact on the employment levels for the Federal Government, as well as for higher aggregates. The estimate of these workers was 22,000 in January, 27,000 in February, 117,000 in March, 178,000 in April, 378,000 in May, 367,000 in June, 194,000 in July, 66,000 in August, and 26,000 in September. For October, the estimated number (preliminary) was 19,000.

#### Scheduled Release Dates

Employment and unemployment data are scheduled for initial release on the following dates:

<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
November	December 7	February	March 8
December	January 4	March	April 5
January	February 1	April	May 3

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1956 to date**

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
1956 .....	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402	
1957 .....	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336	
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 <sup>1</sup> .....	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963 .....	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964 .....	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982 .....	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983 .....	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984 .....	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,831	
1985 .....	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987 .....	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
1988 .....	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944	
1989 .....	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
October .....	188,580	125,857	66.7	119,294	1,709	117,585	3,197	114,388	6,563	5.2	62,723	
November .....	188,721	126,192	66.9	119,540	1,704	117,836	3,160	114,676	6,652	5.3	62,529	
December .....	188,865	126,246	66.8	119,588	1,700	117,888	3,197	114,691	6,658	5.3	62,619	
<b>1990:</b>												
January .....	188,990	126,094	66.7	119,560	1,697	117,863	3,134	114,728	6,535	5.2	62,896	
February .....	189,090	126,308	66.8	119,713	1,678	118,035	3,079	114,957	6,594	5.2	62,782	
March .....	189,198	126,498	66.9	120,003	1,669	118,334	3,200	115,133	6,495	5.1	62,700	
April .....	189,326	126,543	66.8	119,773	1,657	118,116	3,133	114,983	6,770	5.3	62,783	
May .....	189,467	126,643	66.8	119,989	1,639	118,350	3,305	115,045	6,653	5.3	62,824	
June .....	189,607	126,466	66.7	120,019	1,630	118,389	3,348	115,041	6,447	5.1	63,141	
July .....	189,763	126,394	66.6	119,580	1,627	117,953	3,085	114,867	6,814	5.4	63,369	
August .....	189,901	126,300	66.5	119,298	1,640	117,658	3,137	114,521	7,003	5.5	63,601	
September .....	190,002	126,568	66.6	119,499	1,601	117,898	3,181	114,717	7,069	5.6	63,434	
October .....	190,095	126,354	66.5	119,281	1,570	117,711	3,167	114,545	7,073	5.6	63,741	

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

<sup>2</sup> The population and Armed Forces figures are not adjusted for

seasonal variation.

NOTE: Revisions of seasonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most recent 5-year period are made at the end of each calendar year.



A-2. Employment status of the noninstitutional population 16 years and over by sex, 1979 to date

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
1979 .....	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983 .....	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984 .....	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987 .....	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989 .....	90,283	69,360	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
October .....	90,535	69,599	76.9	66,046	1,533	64,513	2,513	62,000	3,553	5.1	20,936	
November .....	90,606	69,635	76.9	66,011	1,529	64,482	2,477	62,005	3,624	5.2	20,971	
December .....	90,678	69,725	76.9	66,143	1,525	64,618	2,535	62,083	3,582	5.1	20,953	
<b>1990:</b>												
January .....	90,772	69,539	76.6	65,943	1,523	64,420	2,501	61,918	3,597	5.2	21,233	
February .....	90,822	69,639	76.7	66,108	1,506	64,602	2,461	62,141	3,530	5.1	21,183	
March .....	90,874	69,712	76.7	66,208	1,497	64,711	2,499	62,212	3,505	5.0	21,162	
April .....	90,942	69,779	76.7	66,043	1,499	64,544	2,415	62,129	3,735	5.4	21,163	
May .....	91,014	69,737	76.6	66,058	1,472	64,586	2,560	62,026	3,679	5.3	21,277	
June .....	91,087	69,599	76.4	66,000	1,465	64,535	2,601	61,933	3,599	5.2	21,488	
July .....	91,168	69,544	76.3	65,740	1,462	64,278	2,458	61,821	3,804	5.5	21,624	
August .....	91,240	69,459	76.1	65,596	1,475	64,121	2,458	61,663	3,863	5.6	21,781	
September .....	91,271	69,809	76.5	65,867	1,441	64,426	2,506	61,919	3,943	5.6	21,462	
October .....	91,299	69,780	76.4	65,862	1,414	64,448	2,504	61,944	3,918	5.6	21,519	
<b>Annual averages</b>												
<b>WOMEN</b>												
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980 .....	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981 .....	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <sup>1</sup> .....	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987 .....	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
1989 .....	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
October .....	98,045	56,258	57.4	53,248	176	53,072	684	52,388	3,010	5.4	41,787	
November .....	98,115	56,557	57.6	53,529	175	53,354	683	52,671	3,028	5.4	41,558	
December .....	98,187	56,521	57.6	53,445	175	53,270	662	52,608	3,076	5.4	41,666	
<b>1990:</b>												
January .....	98,218	56,555	57.6	53,617	174	53,443	633	52,810	2,938	5.2	41,663	
February .....	98,268	56,669	57.7	53,605	172	53,433	618	52,815	3,064	5.4	41,599	
March .....	98,324	56,785	57.8	53,795	172	53,623	702	52,921	2,990	5.3	41,539	
April .....	98,383	56,764	57.7	53,729	158	53,571	718	52,853	3,034	5.3	41,619	
May .....	98,453	56,906	57.8	53,931	167	53,764	745	53,019	2,975	5.2	41,547	
June .....	98,520	56,867	57.7	54,019	165	53,854	747	53,108	2,848	5.0	41,653	
July .....	98,595	56,849	57.7	53,839	165	53,674	628	53,047	3,010	5.3	41,746	
August .....	98,661	56,842	57.6	53,702	165	53,537	679	52,858	3,140	5.5	41,819	
September .....	98,731	56,758	57.5	53,632	160	53,472	674	52,798	3,126	5.5	41,973	
October .....	98,796	56,575	57.3	53,419	156	53,263	662	52,601	3,156	5.6	42,221	

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

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

**HOUSEHOLD DATA  
HISTORICAL**

**A-3. Employment status of the civilian noninstitutional population 16 years and over, 1956 to date**

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
1956 .....	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957 .....	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958 .....	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959 .....	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <sup>1</sup> .....	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961 .....	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 <sup>1</sup> .....	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963 .....	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964 .....	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965 .....	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966 .....	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967 .....	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968 .....	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969 .....	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970 .....	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971 .....	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 <sup>1</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974 .....	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975 .....	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976 .....	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977 .....	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979 .....	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980 .....	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981 .....	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982 .....	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983 .....	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984 .....	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985 .....	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987 .....	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988 .....	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
1989 .....	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
Monthly data, seasonally adjusted <sup>2</sup>								
<b>1989:</b>								
October .....	186,871	124,148	66.4	117,585	6,563	5.3	5.2	5.4
November .....	187,017	124,488	66.6	117,836	6,652	5.3	5.3	5.4
December .....	187,165	124,546	66.5	117,888	6,658	5.3	5.3	5.5
<b>1990:</b>								
January .....	187,293	124,397	66.4	117,863	6,535	5.3	5.3	5.2
February .....	187,412	124,630	66.5	118,035	6,594	5.3	5.2	5.4
March .....	187,529	124,829	66.6	118,334	6,495	5.2	5.1	5.3
April .....	187,669	124,886	66.5	118,116	6,770	5.4	5.5	5.4
May .....	187,828	125,004	66.6	118,350	6,653	5.3	5.4	5.2
June .....	187,977	124,836	66.4	118,389	6,447	5.2	5.3	5.0
July .....	188,136	124,767	66.3	117,953	6,814	5.5	5.6	5.3
August .....	188,261	124,660	66.2	117,658	7,003	5.6	5.7	5.5
September .....	188,401	124,967	66.3	117,898	7,069	5.7	5.8	5.5
October .....	188,525	124,784	66.2	117,711	7,073	5.7	5.7	5.6

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

Explanatory Notes.

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

HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED

A-4. Employment status of the civilian noninstitutional population by age, sex, and race

(Numbers in thousands)

Age, sex, and race	October 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>TOTAL</b>											
16 years and over .....	188,525	125,020	66.3	118,299	6,722	5.4	63,505	26,179	9,233	3,802	24,292
16 to 19 years .....	13,655	6,895	50.5	5,777	1,117	16.2	6,760	428	5,904	37	391
16 to 17 years .....	6,590	2,551	38.7	2,085	466	18.3	4,039	85	3,797	14	143
18 to 19 years .....	7,065	4,343	61.5	3,692	651	15.0	2,721	344	2,107	23	248
20 to 24 years .....	17,787	13,749	77.3	12,516	1,233	9.0	4,038	1,365	2,066	86	521
25 to 54 years .....	105,990	88,834	83.8	84,987	3,848	4.3	17,156	11,391	1,209	1,522	3,033
25 to 34 years .....	42,627	35,724	83.8	33,850	1,874	5.2	6,903	4,689	792	364	1,058
25 to 29 years .....	20,702	17,311	83.6	16,357	955	5.5	3,390	2,238	506	149	497
30 to 34 years .....	21,925	18,413	84.0	17,494	919	5.0	3,513	2,451	287	214	560
35 to 44 years .....	37,791	32,337	85.6	31,078	1,259	3.9	5,455	3,642	341	525	948
35 to 39 years .....	20,043	17,091	85.3	16,359	732	4.3	2,951	2,086	209	222	435
40 to 44 years .....	17,749	15,245	85.9	14,718	527	3.5	2,503	1,556	132	303	513
45 to 54 years .....	25,572	20,774	81.2	20,059	715	3.4	4,798	3,060	76	634	1,028
45 to 49 years .....	14,003	11,757	84.0	11,349	407	3.5	2,246	1,439	53	312	442
50 to 54 years .....	11,569	9,017	77.9	8,709	308	3.4	2,552	1,621	23	322	585
55 to 64 years .....	21,239	12,034	56.7	11,619	415	3.4	9,205	4,190	33	797	4,185
55 to 59 years .....	10,592	7,199	68.0	6,946	252	3.5	3,393	1,836	21	400	1,136
60 to 64 years .....	10,647	4,835	45.4	4,672	163	3.4	5,812	2,354	11	398	3,049
65 years and over .....	29,854	3,508	11.8	3,400	108	3.1	26,346	8,803	22	1,358	16,163
65 to 69 years .....	10,099	2,126	21.1	2,056	70	3.3	7,972	2,733	5	339	4,895
70 to 74 years .....	7,983	879	11.0	852	27	3.1	7,104	2,386	4	267	4,447
75 years and over .....	11,772	502	4.3	491	11	2.3	11,270	3,584	12	752	6,821
<b>Men</b>											
16 years and over .....	89,885	68,196	75.9	64,596	3,600	5.3	21,688	601	4,528	2,050	14,509
16 to 19 years .....	6,871	3,604	52.4	2,990	614	17.0	3,268	34	2,997	23	215
16 to 17 years .....	3,368	1,332	39.6	1,081	251	18.9	2,036	12	1,949	6	69
18 to 19 years .....	3,504	2,272	64.8	1,909	362	15.9	1,232	22	1,047	17	146
20 to 24 years .....	8,630	7,160	83.0	6,521	639	8.9	1,470	35	1,105	58	272
25 to 54 years .....	51,900	48,569	93.6	46,548	2,022	4.2	3,330	275	414	981	1,661
25 to 34 years .....	20,994	19,776	94.2	18,806	970	4.9	1,218	100	315	248	555
25 to 29 years .....	10,159	9,549	94.0	9,060	488	5.1	610	45	213	100	252
30 to 34 years .....	10,835	10,228	94.4	9,746	482	4.7	608	55	102	147	303
35 to 44 years .....	18,503	17,484	94.5	16,813	672	3.8	1,019	102	90	320	508
35 to 39 years .....	9,846	9,371	95.2	8,966	405	4.3	476	60	58	134	222
40 to 44 years .....	8,657	8,114	93.7	7,847	267	3.3	543	41	31	186	285
45 to 54 years .....	12,402	11,309	91.2	10,929	380	3.4	1,094	73	9	413	598
45 to 49 years .....	6,801	6,326	93.0	6,123	203	3.2	475	20	9	205	242
50 to 54 years .....	5,601	4,983	89.0	4,806	177	3.6	618	53	-	208	356
55 to 64 years .....	10,048	6,892	68.6	6,631	262	3.8	3,156	77	9	457	2,612
55 to 59 years .....	5,045	4,077	80.8	3,921	156	3.8	968	27	4	238	699
60 to 64 years .....	5,003	2,815	56.3	2,710	106	3.8	2,188	51	5	219	1,913
65 years and over .....	12,435	1,971	15.8	1,907	64	3.2	10,465	181	4	531	9,749
65 to 69 years .....	4,584	1,150	25.1	1,109	41	3.6	3,434	47	-	170	3,217
70 to 74 years .....	3,492	515	14.8	495	20	3.9	2,977	48	1	112	2,816
75 years and over .....	4,359	305	7.0	302	3	.9	4,054	86	3	249	3,716
<b>Women</b>											
16 years and over .....	98,640	56,824	57.6	53,702	3,122	5.5	41,817	25,577	4,705	1,751	9,783
16 to 19 years .....	6,784	3,291	48.5	2,787	504	15.3	3,493	395	2,907	14	176
16 to 17 years .....	3,223	1,219	37.8	1,004	215	17.6	2,004	73	1,848	8	74
18 to 19 years .....	3,561	2,072	58.2	1,783	289	13.9	1,489	322	1,059	6	102
20 to 24 years .....	9,157	6,589	72.0	5,995	594	9.0	2,568	1,330	961	29	249
25 to 54 years .....	54,090	40,265	74.4	38,439	1,826	4.5	13,825	11,117	796	541	1,372
25 to 34 years .....	21,633	15,948	73.7	15,044	904	5.7	5,685	4,590	477	116	502
25 to 29 years .....	10,543	7,763	73.6	7,296	467	6.0	2,780	2,193	292	49	245
30 to 34 years .....	11,090	8,185	73.8	7,748	437	5.3	2,905	2,396	185	67	257
35 to 44 years .....	19,288	14,852	77.0	14,265	587	4.0	4,436	3,540	251	205	440
35 to 39 years .....	10,196	7,720	75.7	7,394	327	4.2	2,476	2,026	150	87	213
40 to 44 years .....	9,092	7,132	78.4	6,871	260	3.7	1,960	1,515	101	117	227
45 to 54 years .....	13,170	9,465	71.9	9,130	335	3.5	3,705	2,987	67	221	429
45 to 49 years .....	7,201	5,431	75.4	5,226	204	3.8	1,770	1,419	44	107	200
50 to 54 years .....	5,968	4,034	67.6	3,904	131	3.2	1,934	1,568	23	114	229
55 to 64 years .....	11,190	5,141	45.9	4,988	153	3.0	6,049	4,113	24	340	1,573
55 to 59 years .....	5,547	3,121	56.3	3,025	96	3.1	2,425	1,809	17	162	437
60 to 64 years .....	5,644	2,020	35.8	1,963	57	2.8	3,624	2,303	6	178	1,136
65 years and over .....	17,419	1,537	8.8	1,493	44	2.9	15,881	8,623	18	827	6,414
65 to 69 years .....	5,515	976	17.7	947	29	3.0	4,539	2,686	6	169	1,678
70 to 74 years .....	4,491	364	8.1	357	7	1.9	4,127	2,338	3	155	1,631
75 years and over .....	7,413	198	2.7	189	9	4.3	7,215	3,599	9	503	3,104

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued**

(Numbers in thousands)

Age, sex, and race	October 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>WHITE</b>											
16 years and over .....	160,717	107,362	66.8	102,452	4,910	4.6	53,355	22,443	6,978	2,836	21,098
16 to 19 years .....	10,965	5,941	54.2	5,111	829	14.0	5,024	320	4,391	32	282
16 to 17 years .....	5,243	2,235	42.6	1,868	367	16.4	3,009	64	2,832	11	103
18 to 19 years .....	5,722	3,706	64.8	3,244	462	12.5	2,016	257	1,559	21	179
20 to 24 years .....	14,660	11,600	79.1	10,760	841	7.2	3,059	1,007	1,628	54	370
25 to 54 years .....	89,830	76,043	84.7	73,252	2,791	3.7	13,787	9,440	914	1,136	2,297
25 to 34 years .....	35,705	30,314	84.9	29,009	1,305	4.3	5,391	3,815	590	258	729
35 to 44 years .....	17,234	14,631	84.9	13,965	666	4.6	2,603	1,799	371	107	325
30 to 34 years .....	18,471	15,683	84.9	15,044	639	4.1	2,788	2,016	218	150	404
35 to 44 years .....	32,181	27,771	86.3	26,860	911	3.3	4,410	3,019	266	400	725
35 to 39 years .....	16,946	14,574	86.0	14,053	521	3.6	2,372	1,714	154	164	340
40 to 44 years .....	15,235	13,197	86.6	12,807	390	3.0	2,038	1,305	111	236	385
45 to 54 years .....	21,944	17,958	81.8	17,384	574	3.2	3,986	2,606	58	478	843
45 to 49 years .....	12,027	10,182	84.7	9,846	335	3.3	1,845	1,214	39	232	360
50 to 54 years .....	9,917	7,777	78.4	7,538	239	3.1	2,140	1,392	19	247	483
55 to 64 years .....	18,490	10,633	57.5	10,280	354	3.3	7,856	3,672	26	590	3,569
55 to 59 years .....	9,133	6,310	69.1	6,099	210	3.3	2,824	1,571	18	295	939
60 to 64 years .....	9,357	4,324	46.2	4,180	144	3.3	5,033	2,100	8	295	2,630
65 years and over .....	26,773	3,145	11.7	3,049	95	3.0	23,628	8,004	19	1,024	14,581
65 to 69 years .....	8,989	1,896	21.1	1,837	60	3.1	7,093	2,462	5	245	4,381
70 to 74 years .....	7,179	797	11.1	770	27	3.4	6,382	2,199	4	193	3,986
75 years and over .....	10,604	451	4.3	442	9	2.0	10,153	3,343	10	586	6,214
<b>Men</b>											
16 years and over .....	77,239	59,232	76.7	56,545	2,687	4.5	18,007	449	3,400	1,537	12,621
16 to 19 years .....	5,535	3,113	56.2	2,645	468	15.0	2,422	23	2,219	22	158
16 to 17 years .....	2,685	1,178	43.9	977	201	17.1	1,507	7	1,439	5	55
18 to 19 years .....	2,850	1,935	67.9	1,668	266	13.8	916	16	781	17	102
20 to 24 years .....	7,193	6,061	84.3	5,600	462	7.6	1,131	17	879	39	196
25 to 54 years .....	44,513	42,120	94.6	40,646	1,474	3.5	2,394	178	290	727	1,198
25 to 34 years .....	17,788	16,980	95.5	16,306	674	4.0	808	63	227	172	346
25 to 29 years .....	8,553	8,151	95.3	7,799	352	4.3	402	26	163	70	143
30 to 34 years .....	9,235	8,829	95.6	8,507	322	3.6	406	37	64	102	203
35 to 44 years .....	15,965	15,226	95.4	14,735	491	3.2	739	69	58	244	368
35 to 39 years .....	8,438	8,102	96.0	7,814	289	3.6	335	41	34	96	163
40 to 44 years .....	7,528	7,123	94.6	6,921	202	2.8	404	28	24	148	205
45 to 54 years .....	10,760	9,914	92.1	9,605	309	3.1	846	46	5	311	484
45 to 49 years .....	5,914	5,560	94.0	5,389	171	3.1	354	8	5	149	192
50 to 54 years .....	4,846	4,354	89.8	4,215	138	3.2	492	38	-	163	292
55 to 64 years .....	8,807	6,138	69.7	5,915	224	3.6	2,669	63	8	343	2,256
55 to 59 years .....	4,391	3,621	82.5	3,491	130	3.6	770	18	3	173	576
60 to 64 years .....	4,416	2,518	57.0	2,424	94	3.7	1,898	44	5	169	1,680
65 years and over .....	11,191	1,800	16.1	1,740	60	3.3	9,391	167	4	406	8,813
65 to 69 years .....	4,109	1,042	25.4	1,005	37	3.6	3,067	39	-	127	2,902
70 to 74 years .....	3,143	477	15.2	457	20	4.2	2,666	47	1	80	2,538
75 years and over .....	3,939	281	7.1	279	3	1.0	3,658	82	3	200	3,374
<b>Women</b>											
16 years and over .....	83,478	48,130	57.7	45,907	2,223	4.6	35,348	21,994	3,578	1,299	8,477
16 to 19 years .....	5,430	2,828	52.1	2,466	362	12.8	2,602	297	2,171	10	124
16 to 17 years .....	2,559	1,057	41.3	891	166	15.7	1,502	56	1,393	6	47
18 to 19 years .....	2,871	1,771	61.7	1,575	196	11.1	1,100	241	778	5	77
20 to 24 years .....	7,467	5,539	74.2	5,160	379	6.8	1,928	990	749	15	173
25 to 54 years .....	45,317	33,923	74.9	32,607	1,317	3.9	11,393	9,262	624	409	1,098
25 to 34 years .....	17,917	13,334	74.4	12,703	631	4.7	4,583	3,752	363	86	382
25 to 29 years .....	8,681	6,480	74.6	6,166	314	4.8	2,201	1,773	208	38	182
30 to 34 years .....	9,236	6,854	74.2	6,536	317	4.6	2,382	1,979	155	48	200
35 to 44 years .....	16,215	12,545	77.4	12,124	420	3.4	3,670	2,950	208	156	357
35 to 39 years .....	8,508	6,471	76.1	6,239	232	3.6	2,037	1,673	120	67	177
40 to 44 years .....	7,707	6,074	78.8	5,886	188	3.1	1,633	1,277	88	88	180
45 to 54 years .....	11,185	8,045	71.9	7,779	265	3.3	3,140	2,560	53	167	359
45 to 49 years .....	6,113	4,622	75.6	4,457	165	3.6	1,491	1,206	34	83	168
50 to 54 years .....	5,071	3,423	67.5	3,322	101	2.9	1,648	1,354	19	84	191
55 to 64 years .....	9,682	4,495	46.4	4,365	130	2.9	5,187	3,609	18	248	1,313
55 to 59 years .....	4,742	2,689	56.7	2,608	80	3.0	2,053	1,553	15	122	363
60 to 64 years .....	4,941	1,806	36.6	1,757	50	2.8	3,134	2,056	3	126	950
65 years and over .....	15,582	1,345	8.6	1,309	35	2.6	14,238	7,837	16	617	5,768
65 to 69 years .....	4,881	854	17.5	832	22	2.6	4,026	2,423	6	119	1,479
70 to 74 years .....	4,037	320	7.9	314	7	2.2	3,716	2,152	3	113	1,449
75 years and over .....	6,665	170	2.5	164	6	3.7	6,495	3,262	7	386	2,840

HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED

A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued

(Numbers in thousands)

Age, sex, and race	October 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	21,383	13,497	63.1	11,957	1,539	11.4	7,887	2,838	1,605	846	2,598
16 to 19 years .....	2,130	768	36.1	526	243	31.6	1,361	98	1,171	3	89
16 to 17 years .....	1,050	260	24.8	169	92	35.2	790	15	736	3	35
18 to 19 years .....	1,080	508	47.1	357	151	29.8	572	82	435	-	55
20 to 24 years .....	2,439	1,691	69.3	1,350	340	20.1	749	307	284	27	131
25 to 54 years .....	12,149	9,681	79.7	8,786	895	9.2	2,469	1,409	144	325	591
25 to 34 years .....	5,349	4,258	79.6	3,763	495	11.6	1,091	646	87	87	271
25 to 29 years .....	2,663	2,085	78.3	1,832	253	12.1	578	332	62	35	149
30 to 34 years .....	2,686	2,173	80.9	1,931	242	11.2	512	313	25	52	122
35 to 44 years .....	4,135	3,368	81.4	3,074	294	8.7	768	423	50	111	183
35 to 39 years .....	2,297	1,876	81.7	1,691	185	9.9	421	257	36	52	76
40 to 44 years .....	1,838	1,492	81.2	1,383	109	7.3	346	166	14	59	107
45 to 54 years .....	2,665	2,055	77.1	1,949	106	5.2	610	340	7	126	137
45 to 49 years .....	1,417	1,132	79.9	1,078	53	4.7	285	160	5	62	58
50 to 54 years .....	1,248	923	73.9	870	53	5.7	325	180	1	65	79
55 to 64 years .....	2,142	1,052	49.1	1,002	50	4.7	1,090	384	3	196	508
55 to 59 years .....	1,125	667	59.3	631	37	5.5	458	197	-	101	160
60 to 64 years .....	1,017	384	37.8	371	13	3.4	632	187	3	95	347
65 years and over .....	2,523	305	12.1	293	12	3.8	2,218	641	2	295	1,279
65 to 69 years .....	908	190	20.9	181	9	4.6	718	219	-	87	412
70 to 74 years .....	665	70	10.5	69	-	( <sup>1</sup> )	595	155	-	59	382
75 years and over .....	950	45	4.8	43	2	( <sup>1</sup> )	905	267	3	149	486
<b>Men</b>											
16 years and over .....	9,603	6,730	70.1	5,940	790	11.7	2,873	130	788	431	1,524
16 to 19 years .....	1,052	391	37.2	270	121	31.0	661	10	605	1	45
16 to 17 years .....	531	123	23.1	76	46	37.8	409	5	389	1	14
18 to 19 years .....	521	268	51.5	193	75	28.0	252	6	216	-	31
20 to 24 years .....	1,113	875	78.6	716	159	18.1	238	15	145	16	63
25 to 54 years .....	5,450	4,759	87.3	4,286	473	9.9	691	80	39	199	374
25 to 34 years .....	2,423	2,142	88.4	1,883	259	12.1	281	28	21	60	172
25 to 29 years .....	1,207	1,061	88.0	939	123	11.6	145	15	13	24	93
30 to 34 years .....	1,217	1,081	88.8	944	136	12.6	136	14	7	36	79
35 to 44 years .....	1,847	1,624	87.9	1,464	160	9.9	223	26	17	62	119
35 to 39 years .....	1,027	923	89.9	816	107	11.6	104	13	10	32	49
40 to 44 years .....	820	701	85.5	647	53	7.6	119	13	6	30	71
45 to 54 years .....	1,180	993	84.1	940	53	5.4	187	26	1	78	82
45 to 49 years .....	628	545	86.7	520	25	4.6	84	11	1	41	30
50 to 54 years .....	552	448	81.2	420	29	6.4	104	15	-	36	52
55 to 64 years .....	967	564	58.3	531	33	5.8	404	14	-	106	284
55 to 59 years .....	518	349	67.3	324	24	6.9	169	8	-	61	100
60 to 64 years .....	450	215	47.8	206	9	4.0	235	6	-	44	184
65 years and over .....	1,020	141	13.8	137	4	2.9	879	11	-	110	758
65 to 69 years .....	396	85	21.4	81	4	4.4	311	7	-	42	263
70 to 74 years .....	289	35	12.1	35	-	( <sup>1</sup> )	254	1	-	24	228
75 years and over .....	335	21	6.3	21	-	( <sup>1</sup> )	314	4	-	43	267
<b>Women</b>											
16 years and over .....	11,780	6,767	57.4	6,018	749	11.1	5,014	2,708	816	415	1,074
16 to 19 years .....	1,078	377	35.0	256	121	32.2	700	87	566	3	44
16 to 17 years .....	518	137	26.5	92	45	32.9	381	11	347	3	21
18 to 19 years .....	559	240	42.9	164	76	31.7	319	77	219	-	24
20 to 24 years .....	1,326	816	61.5	634	181	22.3	511	292	140	11	68
25 to 54 years .....	6,699	4,922	73.5	4,500	422	8.6	1,777	1,330	105	126	217
25 to 34 years .....	2,926	2,116	72.3	1,880	236	11.1	810	617	66	27	99
25 to 29 years .....	1,457	1,023	70.3	894	130	12.7	433	318	49	11	56
30 to 34 years .....	1,469	1,093	74.4	987	106	9.7	377	300	17	16	43
35 to 44 years .....	2,288	1,744	76.2	1,610	134	7.7	544	398	34	49	64
35 to 39 years .....	1,271	953	75.0	875	78	8.2	318	244	26	20	27
40 to 44 years .....	1,018	791	77.7	736	55	7.0	227	153	7	30	36
45 to 54 years .....	1,485	1,062	71.5	1,009	52	4.9	423	314	5	49	55
45 to 49 years .....	788	587	74.4	558	28	4.8	202	150	4	21	27
50 to 54 years .....	696	475	68.2	451	24	5.1	222	165	1	28	27
55 to 64 years .....	1,175	488	41.6	471	17	3.5	686	370	3	90	223
55 to 59 years .....	608	319	52.5	306	12	3.9	289	189	-	39	60
60 to 64 years .....	567	169	29.9	165	4	2.6	398	181	3	51	163
65 years and over .....	1,503	164	10.9	157	7	4.5	1,339	630	2	185	521
65 to 69 years .....	511	105	20.5	100	5	4.8	406	212	-	45	149
70 to 74 years .....	376	35	9.3	35	-	( <sup>1</sup> )	341	154	-	34	153
75 years and over .....	615	24	3.9	22	2	( <sup>1</sup> )	591	264	3	106	219

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-5. Employment status of the black-and-other civilian noninstitutional population by age and sex**

(Numbers in thousands)

Age and sex	October 1990								Not in labor force
	Civilian noninstitutional population	Civilian labor force						Percent of labor force	
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number		
<b>TOTAL</b>									
16 years and over .....	27,808	17,658	63.5	15,846	235	15,611	1,811	10.3	10,150
16 to 19 years .....	2,690	954	35.5	666	15	651	288	30.2	1,736
16 to 17 years .....	1,347	316	23.5	217	7	210	99	31.3	1,030
18 to 19 years .....	1,343	637	47.5	449	8	440	189	29.6	706
20 to 24 years .....	3,128	2,149	68.7	1,756	20	1,736	392	18.3	979
25 to 54 years .....	16,161	12,792	79.2	11,734	142	11,593	1,057	8.3	3,369
25 to 34 years .....	6,922	5,410	78.2	4,842	55	4,787	568	10.5	1,512
25 to 29 years .....	3,468	2,680	77.3	2,392	29	2,363	289	10.8	788
30 to 34 years .....	3,454	2,730	79.0	2,450	26	2,424	280	10.2	724
35 to 44 years .....	5,611	4,566	81.4	4,218	58	4,160	348	7.6	1,045
35 to 39 years .....	3,097	2,518	81.3	2,307	32	2,275	211	8.4	579
40 to 44 years .....	2,514	2,048	81.5	1,911	26	1,885	137	6.7	466
45 to 54 years .....	3,628	2,815	77.6	2,675	29	2,646	141	5.0	812
45 to 49 years .....	1,975	1,575	79.7	1,503	23	1,480	72	4.6	400
50 to 54 years .....	1,652	1,240	75.1	1,172	6	1,165	69	5.6	412
55 to 64 years .....	2,749	1,400	50.9	1,339	37	1,303	61	4.3	1,349
55 to 59 years .....	1,459	889	61.0	847	17	830	42	4.7	570
60 to 64 years .....	1,290	511	39.6	492	20	472	19	3.7	779
65 years and over .....	3,081	363	11.8	350	22	329	13	3.5	2,717
65 to 69 years .....	1,109	230	20.7	220	16	203	11	4.6	879
70 to 74 years .....	804	82	10.2	82	3	79	-	-	722
75 years and over .....	1,168	51	4.4	49	2	47	2	(1)	1,117
<b>Men</b>									
16 years and over .....	12,646	8,964	70.9	8,051	206	7,845	913	10.2	3,682
16 to 19 years .....	1,336	491	36.7	345	15	329	146	29.7	846
16 to 17 years .....	683	154	22.5	104	7	97	50	32.4	529
18 to 19 years .....	653	337	51.5	241	8	233	96	28.4	317
20 to 24 years .....	1,437	1,099	76.5	922	19	903	177	16.1	338
25 to 54 years .....	7,387	6,450	87.3	5,902	122	5,780	548	8.5	937
25 to 34 years .....	3,206	2,796	87.2	2,501	45	2,455	296	10.6	410
25 to 29 years .....	1,606	1,398	87.0	1,262	23	1,239	136	9.7	208
30 to 34 years .....	1,600	1,399	87.4	1,239	22	1,217	160	11.4	202
35 to 44 years .....	2,538	2,259	89.0	2,077	55	2,023	181	8.0	280
35 to 39 years .....	1,409	1,268	90.0	1,152	33	1,119	116	9.2	141
40 to 44 years .....	1,129	990	87.7	925	22	904	65	6.5	139
45 to 54 years .....	1,643	1,395	84.9	1,324	22	1,302	71	5.1	247
45 to 49 years .....	887	766	86.3	733	17	717	32	4.2	121
50 to 54 years .....	755	629	83.3	590	5	585	39	6.2	126
55 to 64 years .....	1,241	754	60.8	716	31	685	38	5.1	487
55 to 59 years .....	654	456	69.8	430	14	417	26	5.8	197
60 to 64 years .....	587	298	50.7	286	17	269	12	4.0	289
65 years and over .....	1,245	171	13.7	167	19	148	4	2.2	1,074
65 to 69 years .....	475	109	22.8	105	16	88	4	3.5	367
70 to 74 years .....	350	39	11.1	39	3	36	-	(1)	311
75 years and over .....	420	23	5.6	22	2	22	-	(1)	396
<b>Women</b>									
16 years and over .....	15,162	8,694	57.3	7,795	29	7,766	898	10.3	6,468
16 to 19 years .....	1,353	463	34.2	321	-	321	142	30.7	890
16 to 17 years .....	664	163	24.5	113	-	113	49	30.3	501
18 to 19 years .....	689	301	43.6	208	-	208	93	30.9	389
20 to 24 years .....	1,690	1,050	62.1	835	1	834	215	20.5	640
25 to 54 years .....	8,774	6,342	72.3	5,833	20	5,813	509	8.0	2,432
25 to 34 years .....	3,716	2,614	70.3	2,341	10	2,332	273	10.4	1,102
25 to 29 years .....	1,862	1,283	68.9	1,130	6	1,124	153	11.9	579
30 to 34 years .....	1,854	1,331	71.8	1,211	4	1,207	120	9.0	523
35 to 44 years .....	3,073	2,307	75.1	2,141	3	2,138	167	7.2	765
35 to 39 years .....	1,688	1,249	74.0	1,155	-	1,155	94	7.6	438
40 to 44 years .....	1,385	1,058	76.4	986	4	982	72	6.8	327
45 to 54 years .....	1,985	1,420	71.5	1,351	7	1,344	70	4.9	565
45 to 49 years .....	1,088	809	74.4	769	6	763	40	4.9	279
50 to 54 years .....	897	611	68.1	581	1	580	30	4.9	286
55 to 64 years .....	1,508	646	42.8	623	6	617	23	3.5	862
55 to 59 years .....	805	433	53.7	417	3	414	16	3.6	372
60 to 64 years .....	703	213	30.4	206	3	203	7	3.3	490
65 years and over .....	1,836	193	10.5	184	3	181	9	4.7	1,643
65 to 69 years .....	634	122	19.2	115	-	115	7	5.5	512
70 to 74 years .....	454	43	9.6	43	3	41	-	(1)	411
75 years and over .....	748	28	3.7	25	-	25	2	(1)	720

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

**A-6. Employment status of the civilian noninstitutional population by race, sex, and age**

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
<b>TOTAL</b>								
Civilian noninstitutional population .....	186,871	188,525	81,905	83,013	90,860	91,857	14,107	13,655
Civilian labor force .....	124,416	125,020	63,973	64,593	52,839	53,533	7,603	6,895
Percent of population .....	66.6	66.3	78.1	77.8	58.2	58.3	53.9	50.5
Employed .....	118,194	118,299	61,367	61,606	50,345	50,915	6,481	5,777
Agriculture .....	3,309	3,280	2,401	2,371	686	666	221	243
Nonagricultural industries .....	114,885	115,018	58,966	59,235	49,659	50,249	6,260	5,534
Unemployed .....	6,222	6,722	2,606	2,986	2,494	2,618	1,122	1,117
Unemployment rate .....	5.0	5.4	4.1	4.6	4.7	4.9	14.8	16.2
Not in labor force .....	62,455	63,505	17,931	18,420	38,021	38,324	6,503	6,760
<b>White</b>								
Civilian noninstitutional population .....	159,644	160,717	70,864	71,704	77,358	78,048	11,423	10,965
Civilian labor force .....	106,780	107,362	55,659	56,119	44,637	45,302	6,484	5,941
Percent of population .....	66.9	66.8	78.5	78.3	57.7	58.0	56.8	54.2
Employed .....	102,291	102,452	53,735	53,900	42,876	43,441	5,680	5,111
Agriculture .....	3,124	3,045	2,250	2,181	658	636	216	228
Nonagricultural industries .....	99,168	99,407	51,485	51,719	42,218	42,805	5,464	4,883
Unemployed .....	4,489	4,910	1,924	2,219	1,761	1,862	804	829
Unemployment rate .....	4.2	4.6	3.5	4.0	3.9	4.1	12.4	14.0
Not in labor force .....	52,865	53,355	15,204	15,585	32,721	32,746	4,939	5,024
<b>Black</b>								
Civilian noninstitutional population .....	21,108	21,383	8,396	8,551	10,532	10,703	2,180	2,130
Civilian labor force .....	13,504	13,497	6,218	6,339	6,401	6,389	885	768
Percent of population .....	64.0	63.1	74.1	74.1	60.8	59.7	40.6	36.1
Employed .....	11,988	11,957	5,630	5,670	5,759	5,762	598	526
Agriculture .....	128	146	104	122	18	15	6	9
Nonagricultural industries .....	11,860	11,812	5,527	5,548	5,741	5,747	592	517
Unemployed .....	1,516	1,539	588	668	642	628	287	243
Unemployment rate .....	11.2	11.4	9.5	10.5	10.0	9.8	32.4	31.6
Not in labor force .....	7,604	7,887	2,178	2,212	4,131	4,313	1,295	1,361

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin**

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	October 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	15,157	7,221	47.6	6,443	1,395	5,048	778	100	678	10.8
16 to 19 years .....	10,110	4,195	41.5	3,593	383	3,211	602	54	548	14.3
20 to 24 years .....	5,047	3,025	59.9	2,849	1,012	1,837	176	46	130	5.8
High school .....	7,093	2,745	38.7	2,279	203	2,076	465	51	414	17.0
College .....	8,064	4,476	55.5	4,163	1,191	2,972	313	49	264	7.0
Full-time students .....	6,741	3,319	49.2	3,063	406	2,657	256	19	238	7.7
Part-time students .....	1,323	1,157	87.4	1,100	786	315	56	30	26	4.9
Men, 16 to 24 years .....	7,679	3,582	46.6	3,163	725	2,438	419	52	367	11.7
16 to 19 years .....	5,129	2,121	41.4	1,790	213	1,577	331	30	302	15.6
20 to 24 years .....	2,551	1,460	57.3	1,373	512	861	87	23	65	6.0
High school .....	3,716	1,473	39.6	1,215	133	1,082	258	31	226	17.5
College .....	3,963	2,109	53.2	1,948	593	1,356	161	21	140	7.6
Full-time students .....	3,350	1,555	46.4	1,421	207	1,214	134	5	130	8.6
Part-time students .....	613	554	90.3	527	386	141	27	16	11	4.8
Women, 16 to 24 years .....	7,478	3,639	48.7	3,280	669	2,610	359	47	312	9.9
16 to 19 years .....	4,981	2,074	41.6	1,803	170	1,634	270	24	246	13.0
20 to 24 years .....	2,496	1,565	62.7	1,476	500	977	89	23	65	5.7
High school .....	3,377	1,272	37.7	1,065	71	994	207	19	188	16.3
College .....	4,101	2,367	57.7	2,215	599	1,616	152	28	124	6.4
Full-time students .....	3,391	1,764	52.0	1,642	199	1,443	122	14	108	6.9
Part-time students .....	709	603	85.0	573	399	173	30	14	16	4.9
<b>White</b>										
Total, 16 to 24 years .....	12,259	6,244	50.9	5,644	1,176	4,467	600	59	541	9.6
16 to 19 years .....	8,093	3,683	45.5	3,215	339	2,875	468	27	440	12.7
20 to 24 years .....	4,165	2,562	61.5	2,429	837	1,592	133	32	101	5.2
Men .....	6,208	3,105	50.0	2,777	629	2,148	328	31	298	10.6
Women .....	6,050	3,139	51.9	2,867	547	2,320	272	29	243	8.7
High school .....	5,547	2,376	42.8	2,012	172	1,840	364	31	332	15.3
College .....	6,711	3,868	57.6	3,632	1,005	2,627	237	28	209	6.1
Full-time students .....	5,649	2,922	51.7	2,726	361	2,364	197	9	187	6.7
Part-time students .....	1,062	946	89.1	906	643	263	40	18	21	4.2
<b>Black</b>										
Total, 16 to 24 years .....	2,114	689	32.6	556	156	400	133	33	100	19.3
16 to 19 years .....	1,556	397	25.5	290	25	265	108	23	85	27.1
20 to 24 years .....	558	292	52.3	266	131	135	26	10	16	8.7
Men .....	1,079	339	31.4	276	67	208	63	15	48	18.6
Women .....	1,036	351	33.9	281	89	192	70	18	52	20.0
High school .....	1,210	292	24.1	203	16	187	89	17	72	30.5
College .....	905	398	43.9	353	140	213	44	16	28	11.1
Full-time students .....	729	252	34.6	217	33	184	35	9	26	13.8
Part-time students .....	176	146	82.8	136	107	29	9	7	2	6.5
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,239	516	41.7	437	128	309	79	19	60	15.4
16 to 19 years .....	909	304	33.5	244	34	210	61	11	49	19.9
20 to 24 years .....	330	212	64.2	193	94	99	19	8	11	8.9
Men .....	617	276	44.8	229	73	155	47	12	35	17.2
Women .....	623	240	38.6	208	55	153	32	7	25	13.3
High school .....	795	249	31.4	197	41	155	53	11	42	21.2
College .....	444	267	60.1	240	87	154	26	9	18	9.9
Full-time students .....	319	160	50.2	141	21	121	19	1	18	11.8
Part-time students .....	125	106	85.2	99	66	33	8	7	-	7.1

See footnotes at end of table.



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin—Continued**

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	October 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	16,285	13,423	82.4	11,851	10,091	1,760	1,573	1,388	185	11.7
16 to 19 years .....	3,545	2,699	76.1	2,184	1,577	607	516	439	77	19.1
20 to 24 years .....	12,740	10,724	84.2	9,667	8,514	1,153	1,057	949	108	9.9
Less than 4 years of high school .....	3,848	2,525	65.6	2,023	1,619	404	502	460	42	19.9
4 years of high school .....	8,373	7,112	84.9	6,291	5,306	985	821	710	112	11.5
1 to 3 years of college .....	2,632	2,407	91.5	2,256	1,975	282	151	128	23	6.3
4 years of college or more .....	1,433	1,379	96.2	1,280	1,192	88	99	90	9	7.2
Men, 16 to 24 years .....	7,822	7,182	91.8	6,348	5,678	670	834	780	54	11.6
16 to 19 years .....	1,743	1,482	85.1	1,200	949	251	282	254	28	19.0
20 to 24 years .....	6,079	5,700	93.8	5,148	4,729	419	551	526	26	9.7
Less than 4 years of high school .....	1,933	1,623	84.0	1,326	1,156	170	298	285	13	18.3
4 years of high school .....	4,114	3,861	93.8	3,439	3,046	393	422	390	32	10.9
1 to 3 years of college .....	1,165	1,112	95.4	1,048	957	92	64	58	6	5.7
4 years of college or more .....	610	586	96.2	535	520	15	51	47	4	8.7
Women, 16 to 24 years .....	8,463	6,241	73.7	5,502	4,413	1,089	739	608	131	11.8
16 to 19 years .....	1,802	1,217	67.5	984	628	356	233	185	49	19.2
20 to 24 years .....	6,661	5,024	75.4	4,518	3,785	733	506	423	83	10.1
Less than 4 years of high school .....	1,915	902	47.1	698	463	234	204	175	29	22.6
4 years of high school .....	4,259	3,251	76.3	2,852	2,260	592	400	320	80	12.3
1 to 3 years of college .....	1,467	1,296	88.3	1,208	1,018	190	87	70	17	6.8
4 years of college or more .....	824	793	96.3	745	672	73	48	43	5	6.0
<b>White</b>										
Total, 16 to 24 years .....	13,366	11,297	84.5	10,227	8,779	1,448	1,070	924	146	9.5
16 to 19 years .....	2,872	2,258	78.6	1,897	1,386	510	362	301	61	16.0
20 to 24 years .....	10,494	9,039	86.1	8,331	7,393	938	708	623	85	7.8
Men .....	6,520	6,069	93.1	5,468	4,954	514	601	556	45	9.9
Women .....	6,847	5,228	76.4	4,759	3,826	934	469	367	102	9.0
Less than 4 years of high school .....	3,113	2,138	68.7	1,787	1,446	341	351	314	37	16.4
4 years of high school .....	6,731	5,860	87.1	5,339	4,558	781	521	441	81	8.9
1 to 3 years of college .....	2,235	2,059	92.1	1,944	1,697	247	115	93	22	5.6
4 years of college or more .....	1,287	1,240	96.3	1,157	1,078	78	83	76	7	6.7
<b>Black</b>										
Total, 16 to 24 years .....	2,455	1,770	72.1	1,320	1,053	267	450	417	33	25.4
16 to 19 years .....	574	371	64.6	236	150	86	135	124	11	36.5
20 to 24 years .....	1,881	1,399	74.4	1,084	903	181	315	293	22	22.5
Men .....	1,087	928	85.4	710	574	136	217	211	6	23.4
Women .....	1,369	842	61.5	609	478	131	233	206	27	27.6
Less than 4 years of high school .....	620	317	51.2	182	133	50	135	130	5	42.6
4 years of high school .....	1,423	1,080	75.9	804	621	183	277	248	29	25.6
1 to 3 years of college .....	321	282	87.9	254	226	29	28	28	-	9.9
4 years of college or more .....	91	90	98.8	80	73	6	10	10	-	11.6
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,198	1,632	74.3	1,467	1,258	209	165	148	17	10.1
16 to 19 years .....	526	350	66.6	285	216	69	65	55	10	18.6
20 to 24 years .....	1,671	1,282	76.7	1,182	1,042	140	100	93	7	7.8
Men .....	1,147	1,044	91.0	944	856	88	100	90	10	9.6
Women .....	1,051	589	56.0	523	402	122	65	58	7	11.1
Less than 4 years of high school .....	1,119	748	66.9	663	572	91	85	81	4	11.4
4 years of high school .....	840	669	79.6	601	508	93	68	57	11	10.2
1 to 3 years of college .....	194	172	88.4	164	144	20	8	6	1	4.4
4 years of college or more .....	44	43	( <sup>2</sup> )	39	35	4	4	4	-	( <sup>2</sup> )

<sup>1</sup> Employed persons with a job but not at work and persons at work part time are distributed according to whether they usually work full or part time.

<sup>2</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.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-8. Employment status of male Vietnam-era veterans and nonveterans by age**

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Oct. 1989	Oct. 1990	Total		Employed		Unemployed			
			Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Number		Percent of labor force	
							Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
<b>VIETNAM-ERA VETERANS</b>										
Total, 35 years and over .....	7,504	7,680	6,872	6,980	6,630	6,718	242	262	3.5	3.8
35 to 49 years .....	6,491	6,501	6,163	6,156	5,969	5,924	194	232	3.2	3.8
35 to 39 years .....	1,644	1,339	1,538	1,253	1,486	1,172	51	81	3.3	6.5
40 to 44 years .....	3,301	3,245	3,163	3,085	3,058	3,001	105	84	3.3	2.7
45 to 49 years .....	1,546	1,917	1,463	1,818	1,424	1,752	39	66	2.6	3.7
50 years and over .....	1,013	1,179	709	824	661	794	47	30	6.7	3.7
<b>NONVETERANS</b>										
Total, 35 to 49 years .....	16,484	17,725	15,518	16,652	15,005	16,052	514	600	3.3	3.6
35 to 39 years .....	7,549	8,133	7,185	7,764	6,958	7,460	227	303	3.2	3.9
40 to 44 years .....	4,806	5,400	4,515	5,018	4,362	4,836	152	182	3.4	3.6
45 to 49 years .....	4,129	4,192	3,818	3,870	3,684	3,755	134	115	3.5	3.0

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; published data

are limited to those 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

A-9. Employed and unemployed full- and part-time workers by sex, age, and race

(In thousands)

Sex, age, and race	October 1990							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	97,917	96,103	1,814	20,381	17,143	3,238	5,324	1,397
16 to 19 years .....	1,959	1,859	100	3,818	3,438	380	493	625
16 to 17 years .....	208	188	20	1,877	1,810	67	86	380
18 to 19 years .....	1,752	1,672	80	1,941	1,628	313	406	245
20 years and over .....	95,958	94,244	1,714	16,563	13,705	2,858	4,832	773
20 to 24 years .....	9,526	9,259	267	2,990	2,438	552	995	239
25 years and over .....	86,431	84,985	1,447	13,574	11,267	2,306	3,837	534
25 to 54 years .....	75,268	74,082	1,186	9,719	7,830	1,889	3,431	416
55 years and over .....	11,164	10,902	261	3,855	3,437	417	405	118
<b>Men, 16 years and over .....</b>	<b>58,010</b>	<b>56,945</b>	<b>1,065</b>	<b>6,587</b>	<b>5,254</b>	<b>1,333</b>	<b>3,046</b>	<b>554</b>
16 to 19 years .....	1,162	1,097	65	1,828	1,676	153	284	330
20 years and over .....	56,848	55,848	1,000	4,758	3,578	1,180	2,762	225
20 to 24 years .....	5,241	5,099	142	1,280	1,044	236	548	91
25 years and over .....	51,607	50,749	858	3,478	2,534	944	2,214	134
25 to 54 years .....	44,632	43,928	705	1,915	1,161	754	1,947	75
55 years and over .....	6,974	6,821	153	1,563	1,373	190	267	59
<b>Women, 16 years and over .....</b>	<b>39,907</b>	<b>39,158</b>	<b>749</b>	<b>13,795</b>	<b>11,890</b>	<b>1,905</b>	<b>2,279</b>	<b>843</b>
16 to 19 years .....	797	763	35	1,990	1,762	228	209	295
20 years and over .....	39,110	38,396	714	11,805	10,128	1,678	2,070	548
20 to 24 years .....	4,285	4,160	125	1,710	1,394	316	446	148
25 years and over .....	34,825	34,236	589	10,095	8,733	1,362	1,623	400
25 to 54 years .....	30,636	30,155	481	7,804	6,668	1,135	1,485	341
55 years and over .....	4,189	4,081	108	2,292	2,065	227	139	59
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>50,890</b>	<b>49,979</b>	<b>911</b>	<b>5,655</b>	<b>4,592</b>	<b>1,063</b>	<b>2,230</b>	<b>457</b>
16 to 19 years .....	1,044	980	64	1,601	1,473	128	199	269
20 years and over .....	49,846	48,999	847	4,054	3,119	935	2,031	188
20 to 24 years .....	4,539	4,419	120	1,061	879	182	388	74
25 years and over .....	45,307	44,580	727	2,993	2,240	753	1,643	115
25 to 54 years .....	39,095	38,496	599	1,550	961	589	1,416	58
55 years and over .....	6,212	6,084	128	1,443	1,279	164	227	57
<b>Women, 16 years and over .....</b>	<b>33,554</b>	<b>32,959</b>	<b>594</b>	<b>12,353</b>	<b>10,754</b>	<b>1,599</b>	<b>1,546</b>	<b>677</b>
16 to 19 years .....	682	657	25	1,785	1,574	211	129	232
20 years and over .....	32,872	32,303	569	10,569	9,180	1,388	1,417	445
20 to 24 years .....	3,691	3,594	97	1,469	1,204	265	267	113
25 years and over .....	29,181	28,709	472	9,100	7,976	1,123	1,150	332
25 to 54 years .....	25,557	25,175	382	7,050	6,113	937	1,035	282
55 years and over .....	3,624	3,534	90	2,050	1,863	186	115	50
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,258</b>	<b>5,144</b>	<b>114</b>	<b>682</b>	<b>468</b>	<b>215</b>	<b>722</b>	<b>68</b>
16 to 19 years .....	80	79	1	190	169	21	79	42
20 years and over .....	5,178	5,065	113	492	299	193	643	26
20 to 24 years .....	562	546	16	155	111	44	146	13
25 years and over .....	4,616	4,520	96	338	188	149	497	13
25 to 54 years .....	4,034	3,954	80	252	121	130	462	11
55 years and over .....	582	566	16	86	67	19	35	2
<b>Women, 16 years and over .....</b>	<b>4,931</b>	<b>4,804</b>	<b>127</b>	<b>1,086</b>	<b>830</b>	<b>256</b>	<b>614</b>	<b>135</b>
16 to 19 years .....	95	87	8	161	145	16	68	54
20 years and over .....	4,836	4,717	119	926	685	241	546	81
20 to 24 years .....	472	446	26	162	118	44	157	25
25 years and over .....	4,364	4,271	93	764	567	197	390	56
25 to 54 years .....	3,938	3,858	80	562	398	164	373	48
55 years and over .....	426	413	13	202	169	33	16	8

<sup>1</sup> Employed persons with a job but not at work are distributed according to whether they usually work full or part time.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-10. Employment status of persons in families by family relationship**

(Numbers in thousands)

Family relationship	October 1990									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	100,025	66.8	94,584	5,441	5.4	49,738	21,235	8,332	2,631	17,540
Husbands .....	40,268	78.1	39,052	1,216	3.0	11,270	220	191	999	9,860
With employed wife .....	26,797	91.6	26,027	770	2.9	2,450	87	123	411	1,830
With unemployed wife .....	1,078	94.1	977	100	9.3	68	3	7	11	47
With wife not in labor force .....	12,393	58.6	12,047	346	2.8	8,752	130	61	577	7,983
Wives .....	30,393	59.0	29,247	1,145	3.8	21,145	16,352	447	485	3,861
With employed husband .....	27,004	69.2	26,027	977	3.6	12,047	10,386	401	194	1,067
With unemployed husband .....	870	71.6	770	100	11.5	346	291	10	11	34
With husband not in labor force .....	2,518	22.3	2,450	68	2.7	8,752	5,675	36	281	2,760
Relatives in married-couple families .....	12,459	61.9	11,227	1,232	9.9	7,661	676	5,445	380	1,160
16 to 19 years .....	4,142	48.1	3,629	513	12.4	4,465	104	4,147	16	198
20 to 24 years .....	4,653	75.8	4,216	437	9.4	1,489	126	1,163	32	168
25 years and over .....	3,664	68.2	3,382	282	7.7	1,707	446	135	332	794
Women who maintain families .....	7,004	62.3	6,399	605	8.6	4,238	2,820	272	229	916
Relatives in families maintained by women .....	5,775	60.4	4,848	927	16.1	3,783	794	1,639	351	999
16 to 19 years .....	1,371	47.4	974	396	28.9	1,523	106	1,272	18	127
20 to 24 years .....	1,495	72.1	1,262	233	15.6	579	127	291	31	130
25 years and over .....	2,910	63.4	2,612	298	10.2	1,681	561	76	302	742
Men who maintain families .....	2,354	79.5	2,230	125	5.3	609	34	33	108	434
Relatives in families maintained by men .....	1,772	63.2	1,581	192	10.8	1,032	339	305	79	308
16 to 19 years .....	340	58.6	275	64	19.0	240	15	202	-	23
20 to 24 years .....	475	76.1	428	47	9.9	149	42	78	8	21
25 years and over .....	959	59.9	878	81	8.4	643	282	25	71	264

<sup>1</sup> Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

NOTE: Estimates shown in this table for husbands, wives, and women

who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in aggregating the data.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-11. Unemployed persons by marital status, race, age, and sex**

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
Total, 16 years and over .....	3,243	3,600	4.8	5.3	2,979	3,122	5.3	5.5
Married, spouse present .....	1,150	1,335	2.7	3.1	1,219	1,222	3.9	3.9
Widowed, divorced, or separated .....	390	451	5.4	6.1	635	691	5.6	6.1
Single (never married) .....	1,703	1,814	9.2	9.9	1,125	1,209	8.1	8.6
White, 16 years and over .....	2,393	2,687	4.1	4.5	2,096	2,223	4.4	4.6
Married, spouse present .....	937	1,077	2.5	2.8	1,018	1,013	3.7	3.6
Widowed, divorced, or separated .....	282	350	4.7	5.7	407	483	4.5	5.3
Single (never married) .....	1,173	1,259	7.7	8.3	671	727	6.0	6.6
Black, 16 years and over .....	735	790	11.0	11.7	782	749	11.4	11.1
Married, spouse present .....	163	207	5.2	6.5	145	134	5.9	5.6
Widowed, divorced, or separated .....	100	90	9.8	8.9	215	189	10.8	9.8
Single (never married) .....	471	493	18.7	19.4	421	426	17.8	17.5
Total, 25 years and over .....	1,991	2,348	3.5	4.1	1,961	2,023	4.2	4.3
Married, spouse present .....	1,078	1,237	2.7	3.0	1,032	1,020	3.6	3.5
Widowed, divorced, or separated .....	365	426	5.2	5.9	579	636	5.3	5.8
Single (never married) .....	549	684	6.1	7.4	349	367	5.5	5.5
White, 25 years and over .....	1,502	1,757	3.0	3.5	1,386	1,482	3.5	3.7
Married, spouse present .....	877	1,009	2.4	2.8	851	858	3.3	3.3
Widowed, divorced, or separated .....	267	331	4.6	5.5	364	442	4.2	5.0
Single (never married) .....	359	418	4.9	5.6	171	182	3.5	3.7
Black, 25 years and over .....	421	510	7.9	9.3	490	446	8.9	8.0
Married, spouse present .....	154	182	5.1	5.9	130	99	5.7	4.4
Widowed, divorced, or separated .....	90	85	9.0	8.6	204	177	10.4	9.4
Single (never married) .....	177	243	13.4	17.2	157	171	12.1	11.9

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-12. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
Total, 16 years and over .....	6,222	6,722	5.0	5.4	4.8	5.3	5.3	5.5
Managerial and professional specialty .....	593	707	1.9	2.2	1.6	2.2	2.2	2.2
Executive, administrative, and managerial .....	337	386	2.2	2.5	1.9	2.4	2.6	2.8
Professional specialty .....	256	321	1.6	2.0	1.3	2.1	1.8	1.8
Technical, sales, and administrative support .....	1,541	1,634	4.1	4.3	3.3	3.6	4.5	4.6
Technicians and related support .....	99	104	2.7	2.7	3.3	3.0	2.2	2.3
Sales occupations .....	664	701	4.5	4.7	3.0	3.3	6.1	6.2
Administrative support, including clerical .....	777	829	4.0	4.3	4.0	4.5	4.1	4.2
Service occupations .....	1,032	1,103	6.3	6.5	6.2	6.6	6.3	6.5
Private household .....	41	32	4.9	4.0	( <sup>1</sup> )	( <sup>1</sup> )	4.8	3.9
Protective service .....	62	88	3.2	4.4	2.7	3.9	5.7	6.7
Service, except private household and protective .....	928	984	6.8	7.0	7.4	7.5	6.5	6.7
Precision production, craft, and repair .....	652	808	4.5	5.6	4.4	5.5	5.4	6.4
Mechanics and repairers .....	147	163	3.2	3.5	3.1	3.5	5.0	4.0
Construction trades .....	348	468	6.1	8.3	6.0	8.2	9.6	14.1
Other precision production, craft, and repair .....	156	177	3.7	4.3	3.3	3.8	4.9	6.0
Operators, fabricators, and laborers .....	1,438	1,574	7.3	8.0	6.9	7.5	8.7	9.5
Machine operators, assemblers, and inspectors .....	632	724	7.2	8.1	6.0	6.6	8.8	10.4
Transportation and material moving occupations .....	267	258	5.0	4.9	4.9	5.1	5.5	2.2
Handlers, equipment cleaners, helpers, and laborers .....	538	592	9.9	10.8	10.0	11.0	9.8	9.6
Construction laborers .....	104	167	12.4	18.3	12.6	17.8	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	435	426	9.5	9.3	9.4	9.4	9.8	8.8
Farming, forestry, and fishing .....	233	186	6.3	5.1	6.2	5.3	6.8	4.1
No previous work experience .....	695	688	-	-	-	-	-	-
16 to 19 years .....	415	420	-	-	-	-	-	-
20 to 24 years .....	132	130	-	-	-	-	-	-
25 years and over .....	148	138	-	-	-	-	-	-

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

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
Total, 16 years and over .....	6,222	6,722	5.0	5.4	4.8	5.3	5.3	5.5
Nonagricultural private wage and salary workers .....	4,693	5,179	5.1	5.6	4.8	5.6	5.4	5.5
Mining .....	32	26	4.7	3.6	5.6	3.3	-	5.3
Construction .....	473	659	7.4	10.6	7.6	10.5	5.3	11.3
Manufacturing .....	1,138	1,182	5.1	5.5	4.5	4.6	6.4	7.2
Durable goods .....	636	692	4.8	5.4	4.4	4.6	5.9	7.5
Lumber and wood products .....	41	48	5.5	6.4	6.1	5.6	2.8	11.6
Furniture and fixtures .....	40	32	5.9	4.3	6.4	4.7	4.7	3.2
Stone, clay, and glass products .....	46	18	6.3	2.9	5.6	2.2	8.9	5.5
Primary metal industries .....	29	42	3.3	5.0	3.1	4.9	4.4	6.3
Fabricated metal products .....	93	55	7.3	4.3	6.6	4.1	9.4	5.1
Machinery, except electrical .....	93	114	3.6	4.5	2.9	3.9	5.6	6.2
Electrical machinery, equipment, and supplies .....	105	149	4.9	6.8	4.8	5.2	5.0	9.2
Transportation equipment .....	127	129	4.7	5.0	4.1	4.3	6.7	7.8
Automobiles .....	81	75	6.5	6.4	6.1	4.5	8.2	13.3
Other transportation equipment .....	46	54	3.1	3.8	2.4	4.0	5.6	3.2
Professional and photographic equipment .....	31	40	4.0	5.3	3.6	3.6	4.6	7.7
Other durable goods industries .....	31	65	5.6	11.6	4.8	12.3	7.2	10.2
Nondurable goods .....	502	490	5.5	5.5	4.5	4.5	6.9	7.0
Food and kindred products .....	113	109	6.0	5.7	5.6	4.8	6.7	7.5
Textile mill products .....	39	45	5.5	5.9	2.6	5.1	8.4	6.7
Apparel and other textile products .....	85	112	6.7	9.6	4.8	9.3	7.3	9.7
Paper and allied products .....	45	28	5.7	3.6	3.6	2.5	12.0	7.3
Printing and publishing .....	96	74	5.1	4.0	4.3	4.2	6.1	3.8
Chemicals and allied products .....	32	47	2.5	3.5	2.4	2.8	2.6	5.1
Rubber and miscellaneous plastics products .....	68	51	8.3	6.8	8.9	5.3	7.2	9.3
Other nondurable goods industries .....	23	25	5.9	6.9	3.7	6.7	9.5	7.2
Transportation and public utilities .....	223	242	3.6	3.7	3.5	3.8	3.7	3.3
Transportation .....	166	182	4.5	4.6	4.4	4.8	4.8	4.1
Communications and other public utilities .....	56	60	2.2	2.3	1.9	2.2	2.7	2.5
Wholesale and retail trade .....	1,338	1,533	5.6	6.4	4.5	5.9	6.9	7.0
Wholesale trade .....	197	191	4.2	4.2	3.3	3.6	6.5	5.7
Retail trade .....	1,141	1,342	6.0	6.9	4.9	6.6	7.0	7.2
Finance, insurance, and real estate .....	218	235	3.0	3.2	2.1	3.4	3.5	3.1
Service industries .....	1,273	1,303	4.9	4.9	5.2	5.5	4.7	4.6
Professional services .....	450	496	3.0	3.3	2.8	3.3	3.1	3.2
Other service industries .....	823	807	7.3	7.1	7.1	7.1	7.5	7.1
Agricultural wage and salary workers .....	172	147	9.2	7.6	9.2	7.3	8.9	8.4
Government, self-employed, and unpaid family workers .....	662	707	2.3	2.4	2.2	2.3	2.3	2.6
No previous work experience .....	695	688	-	-	-	-	-	-

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-14. Unemployed persons by reason for unemployment, sex, and race**

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,222	6,722	2,606	2,986	2,494	2,618	1,122	1,117	4,489	4,910	1,516	1,539
Job losers .....	2,625	3,109	1,604	1,894	849	991	171	224	1,942	2,287	615	719
On layoff .....	620	808	365	509	231	245	25	54	509	659	91	127
Other job losers .....	2,004	2,301	1,239	1,385	619	746	146	170	1,432	1,628	524	592
Job leavers .....	1,052	1,030	381	401	459	448	212	181	823	833	187	147
Reentrants .....	1,933	1,957	522	609	1,033	1,017	378	331	1,367	1,392	482	489
New entrants .....	613	625	99	82	152	162	362	382	357	398	232	183
<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 .....	42.2	46.3	61.6	63.4	34.1	37.9	15.3	20.0	43.3	46.6	40.6	46.7
On layoff .....	10.0	12.0	14.0	17.0	9.2	9.4	2.2	4.8	11.3	13.4	6.0	8.3
Other job losers .....	32.2	34.2	47.6	46.4	24.8	28.5	13.0	15.2	31.9	33.2	34.6	38.5
Job leavers .....	16.9	15.3	14.6	13.4	18.4	17.1	18.9	16.2	18.3	17.0	12.3	9.6
Reentrants .....	31.1	29.1	20.0	20.4	41.4	38.8	33.7	29.6	30.5	28.3	31.8	31.8
New entrants .....	9.9	9.3	3.8	2.7	6.1	6.2	32.2	34.2	7.9	8.1	15.3	11.9
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.1	2.5	2.5	2.9	1.6	1.9	2.3	3.2	1.8	2.1	4.6	5.3
Job leavers .....	.8	.8	.6	.6	.9	.8	2.8	2.6	.8	.8	1.4	1.1
Reentrants .....	1.6	1.6	.8	.9	2.0	1.9	5.0	4.8	1.3	1.3	3.6	3.6
New entrants .....	.5	.5	.2	.1	.3	.3	4.8	5.5	.3	.4	1.7	1.4



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-15. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment**

(Percent distribution)

Reason, sex, and age	October 1990						
	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 .....	6,722	100.0	45.7	33.2	21.1	11.4	9.7
Job losers .....	3,109	100.0	41.6	32.7	25.7	13.4	12.3
On layoff .....	808	100.0	61.8	25.2	13.1	9.1	4.0
Other job losers .....	2,301	100.0	34.5	35.3	30.2	14.9	15.3
Job leavers .....	1,030	100.0	49.3	35.7	15.1	8.2	6.8
Reentrants .....	1,957	100.0	49.3	32.4	18.3	10.2	8.1
New entrants .....	625	100.0	49.2	33.8	17.0	10.6	6.3
Men, 20 years and over .....	2,986	100.0	40.6	31.7	27.7	13.2	14.4
Job losers .....	1,894	100.0	39.7	30.6	29.7	13.9	15.8
On layoff .....	509	100.0	61.3	24.6	14.1	8.7	5.4
Other job losers .....	1,385	100.0	31.8	32.8	35.4	15.8	19.6
Job leavers .....	401	100.0	45.8	35.6	18.7	7.2	11.5
Reentrants .....	609	100.0	39.9	33.4	26.7	14.9	11.8
New entrants .....	82	100.0	41.3	26.6	32.1	15.3	16.8
Women, 20 years and over .....	2,618	100.0	47.0	34.5	18.4	10.9	7.5
Job losers .....	991	100.0	41.2	36.3	22.5	14.2	8.3
On layoff .....	245	100.0	59.2	27.2	13.5	11.4	2.1
Other job losers .....	746	100.0	35.3	39.2	25.4	15.1	10.4
Job leavers .....	448	100.0	48.5	37.3	14.2	10.4	3.8
Reentrants .....	1,017	100.0	52.7	31.7	15.6	7.9	7.6
New entrants .....	162	100.0	43.1	33.8	23.1	11.0	12.1
Both sexes, 16 to 19 years .....	1,117	100.0	56.3	33.8	9.9	7.7	2.2
Job losers .....	224	100.0	59.1	34.7	6.2	5.2	1.0
On layoff .....	54	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	170	100.0	53.3	38.9	7.8	6.3	1.6
Job leavers .....	181	100.0	58.9	31.9	9.2	5.2	3.9
Reentrants .....	331	100.0	56.2	32.4	11.4	8.5	2.8
New entrants .....	382	100.0	53.5	35.4	11.1	9.5	1.6

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-16. Unemployed persons by duration of unemployment**

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
Total, 16 years and over .....	6,222	6,722	100.0	100.0	4,751	5,324	100.0	100.0
Less than 5 weeks .....	3,132	3,073	50.3	45.7	2,170	2,245	45.7	42.2
5 to 14 weeks .....	1,862	2,229	29.9	33.2	1,477	1,782	31.1	33.5
5 to 10 weeks .....	1,441	1,664	23.2	24.8	1,115	1,295	23.5	24.3
11 to 14 weeks .....	421	564	6.8	8.4	361	488	7.6	9.2
15 weeks and over .....	1,228	1,420	19.7	21.1	1,105	1,297	23.3	24.4
15 to 26 weeks .....	624	767	10.0	11.4	567	695	11.9	13.1
27 weeks and over .....	605	653	9.7	9.7	538	602	11.3	11.3
27 to 51 weeks .....	252	278	4.0	4.1	230	270	4.8	5.1
52 weeks and over .....	353	374	5.7	5.6	308	332	6.5	6.2
Average (mean) duration, in weeks .....	11.6	11.8	-	-	13.0	13.0	-	-
Median duration, in weeks .....	4.5	5.4	-	-	5.5	6.3	-	-

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-17. Unemployed persons by sex, age, race, marital status, and duration of unemployment**

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
	October 1990										
Total, 16 years and over .....	6,722	3,073	2,229	767	653	11.8	5.4	50.3	45.7	19.7	21.1
16 to 19 years .....	1,117	629	378	86	25	6.8	4.0	61.3	56.3	11.0	9.9
20 to 24 years .....	1,233	624	448	96	65	8.6	4.4	53.8	50.6	16.0	13.1
25 to 34 years .....	1,874	826	636	243	169	11.8	5.9	50.1	44.1	20.3	22.0
35 to 44 years .....	1,259	504	397	192	166	14.0	6.9	40.8	40.0	26.1	28.4
45 to 54 years .....	715	299	213	92	111	15.8	6.9	47.1	41.8	24.1	28.4
55 to 64 years .....	415	154	131	41	89	18.2	7.6	43.1	37.1	28.6	31.3
65 years and over .....	108	38	26	17	28	24.3	7.6	44.2	34.7	21.0	41.5
Men, 16 years and over .....	3,600	1,547	1,176	435	442	13.4	5.9	46.7	43.0	23.6	24.4
16 to 19 years .....	614	334	229	39	11	6.6	4.1	62.4	54.4	7.7	8.3
20 to 24 years .....	639	300	243	50	45	9.5	5.0	45.8	46.9	20.7	15.0
25 to 34 years .....	970	403	321	150	97	12.8	6.6	43.9	41.5	27.6	25.4
35 to 44 years .....	672	250	203	102	117	16.3	7.7	37.3	37.3	32.7	32.5
45 to 54 years .....	380	146	101	46	87	19.7	8.9	46.7	38.5	26.9	35.0
55 to 64 years .....	262	99	68	32	63	19.5	8.1	41.4	37.6	35.5	36.4
65 years and over .....	64	15	11	15	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,122	1,527	1,053	332	210	10.0	4.7	54.2	48.9	15.6	17.4
16 to 19 years .....	504	295	149	46	14	7.0	3.8	59.7	58.6	15.5	11.9
20 to 24 years .....	594	325	204	46	20	7.5	4.1	63.0	54.6	10.7	11.0
25 to 34 years .....	904	423	315	94	72	10.7	5.2	55.8	46.8	13.5	18.3
35 to 44 years .....	587	253	195	90	49	11.5	6.2	44.2	43.2	19.9	23.7
45 to 54 years .....	335	153	112	46	24	11.4	5.5	47.6	45.6	20.7	20.9
55 to 64 years .....	153	55	63	9	26	16.0	7.0	45.4	36.2	18.8	22.4
65 years and over .....	44	22	14	2	6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,910	2,291	1,592	561	466	11.7	5.1	51.2	46.7	19.0	20.9
Men .....	2,687	1,196	838	323	330	13.3	5.6	47.2	44.5	22.9	24.3
Women .....	2,223	1,096	753	238	136	9.8	4.6	55.9	49.3	14.5	16.8
Black, 16 years and over .....	1,539	658	540	180	161	12.3	6.4	46.6	42.8	23.2	22.2
Men .....	790	305	286	102	97	13.9	7.2	43.2	38.6	27.4	25.2
Women .....	749	353	254	78	64	10.6	5.2	49.9	47.1	19.2	19.0
Men, 16 years and over:											
Married, spouse present .....	1,335	517	436	168	213	15.2	7.1	40.6	38.7	27.7	28.5
Widowed, divorced, or separated .....	451	187	126	56	82	17.0	6.9	45.6	41.5	31.0	30.6
Single (never married) .....	1,814	842	614	210	148	11.1	5.2	51.1	46.4	19.1	19.7
Women, 16 years and over:											
Married, spouse present .....	1,222	586	393	167	77	10.1	5.0	55.7	48.0	11.2	19.9
Widowed, divorced, or separated .....	691	317	259	56	60	11.3	5.5	47.1	45.9	22.8	16.8
Single (never married) .....	1,209	624	402	109	74	9.2	4.4	56.8	51.6	16.2	15.1

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-18. Unemployed persons by occupation, industry, and duration of unemployment**

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
<b>OCCUPATION</b>											
Managerial and professional specialty .....	707	270	231	118	89	14.5	7.2	42.0	38.2	21.2	29.3
Technical, sales, and administrative support .....	1,634	716	564	190	165	12.3	6.0	52.6	43.8	17.4	21.7
Service occupations .....	1,103	528	386	101	88	10.3	4.8	52.0	47.9	16.2	17.1
Precision production, craft, and repair .....	808	378	265	93	72	10.8	5.1	48.6	46.8	25.0	20.4
Operators, fabricators, and laborers .....	1,574	730	493	173	178	12.4	5.4	46.9	46.4	22.9	22.2
Farming, forestry, and fishing .....	186	103	50	20	13	10.4	4.1	66.1	55.4	13.3	17.2
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	147	81	43	11	12	10.6	4.1	66.3	55.1	11.6	15.6
Construction .....	666	323	245	56	41	9.2	4.8	50.4	48.5	22.2	14.6
Manufacturing .....	1,194	503	390	168	133	13.1	6.6	46.0	42.1	24.7	25.2
Durable goods .....	703	279	229	105	89	14.1	7.3	46.3	39.7	25.8	27.7
Nondurable goods .....	491	224	161	62	44	11.7	5.6	45.7	45.6	23.2	21.6
Transportation and public utilities .....	278	120	86	39	34	13.8	6.3	50.4	43.2	21.5	26.3
Wholesale and retail trade .....	1,536	755	509	141	131	10.5	4.7	53.9	49.2	16.8	17.6
Finance and service industries .....	1,809	775	600	242	194	12.4	5.9	48.4	42.8	19.1	24.0
Public administration .....	174	82	50	17	25	14.4	5.2	49.3	47.1	17.1	24.1
No previous work experience .....	688	346	229	70	44	10.3	4.5	54.1	50.3	19.9	16.6

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-19. Unemployed jobseekers by sex, age, race, and jobsearch methods used**

Sex, age, and race	October 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,722	5,833	23.2	10.0	71.2	41.1	19.9	6.2	1.72
16 to 19 years .....	1,117	1,052	13.1	5.7	77.9	29.0	15.3	5.5	1.47
20 to 24 years .....	1,233	1,103	22.9	10.4	66.2	41.8	20.3	5.7	1.67
25 to 34 years .....	1,874	1,588	27.5	10.7	71.8	44.6	21.8	5.3	1.82
35 to 44 years .....	1,259	1,093	27.2	11.1	70.9	44.6	20.1	7.3	1.81
45 to 54 years .....	715	593	22.3	12.4	68.2	44.6	22.1	8.0	1.78
55 to 64 years .....	415	314	21.4	11.8	73.6	41.6	23.3	8.3	1.80
65 years and over .....	108	90	28.6	7.1	57.8	43.1	9.5	5.3	1.51
<b>Men, 16 years and over</b> .....	3,600	2,994	24.3	10.8	71.8	41.6	22.9	7.1	1.79
16 to 19 years .....	614	567	11.7	5.8	81.9	32.2	16.3	2.6	1.50
20 to 24 years .....	639	562	22.5	9.5	65.4	40.0	22.9	7.6	1.68
25 to 34 years .....	970	761	31.0	14.4	71.3	44.3	26.5	7.0	1.95
35 to 44 years .....	672	562	29.2	11.4	70.5	44.8	24.6	8.2	1.89
45 to 54 years .....	380	292	27.3	13.0	66.6	45.4	24.4	13.3	1.90
55 to 64 years .....	262	192	20.4	10.5	75.3	46.0	24.6	8.1	1.85
65 years and over .....	64	57	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Women, 16 years and over</b> .....	3,122	2,839	21.9	9.1	70.6	40.5	16.8	5.3	1.64
16 to 19 years .....	504	485	14.7	5.6	73.1	25.3	14.2	8.9	1.42
20 to 24 years .....	594	541	23.4	11.3	67.0	43.6	17.5	3.6	1.66
25 to 34 years .....	904	827	24.3	7.3	72.3	44.8	17.4	3.8	1.70
35 to 44 years .....	587	531	25.1	10.8	71.4	44.4	15.4	6.4	1.73
45 to 54 years .....	335	301	17.5	11.9	69.7	43.9	20.0	2.9	1.66
55 to 64 years .....	153	121	23.0	13.8	70.8	34.6	21.2	8.6	1.72
65 years and over .....	44	32	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>White, 16 years and over</b> .....	4,910	4,177	21.2	9.7	70.0	44.0	20.9	6.9	1.73
Men .....	2,687	2,185	22.6	10.0	70.5	44.1	23.7	7.9	1.79
Women .....	2,223	1,992	19.6	9.4	69.4	43.9	17.7	5.8	1.66
<b>Black, 16 years and over</b> .....	1,539	1,410	28.7	9.5	75.3	33.6	17.2	4.4	1.69
Men .....	790	704	29.4	12.1	76.3	34.6	20.1	4.7	1.77
Women .....	749	705	28.1	6.9	74.4	32.5	14.2	4.1	1.60

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

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**A-20. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used**

Sex and reason	October 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,722	5,833	23.2	10.0	71.2	41.1	19.9	6.2	1.72
Job losers <sup>1</sup> .....	3,109	2,279	30.1	13.6	74.6	42.9	24.9	4.9	1.91
Job leavers .....	1,030	1,005	23.6	9.2	71.5	45.5	17.0	4.0	1.71
Reentrants .....	1,957	1,936	17.8	7.5	67.1	39.3	15.5	8.8	1.56
New entrants .....	625	613	13.6	5.9	71.3	32.8	20.5	6.7	1.51
<b>Men, 16 years and over</b> .....	3,600	2,994	24.3	10.8	71.8	41.6	22.9	7.1	1.79
Job losers <sup>1</sup> .....	2,042	1,472	28.9	13.1	74.1	43.2	26.0	5.5	1.91
Job leavers .....	479	461	25.9	10.2	70.0	46.4	20.7	4.9	1.78
Reentrants .....	805	793	19.1	8.8	65.5	37.1	19.1	13.0	1.63
New entrants .....	273	268	11.7	5.2	80.9	37.5	20.5	2.3	1.58
<b>Women, 16 years and over</b> .....	3,122	2,839	21.9	9.1	70.6	40.5	16.8	5.3	1.64
Job losers <sup>1</sup> .....	1,066	807	32.2	14.4	75.4	42.2	22.8	3.7	1.91
Job leavers .....	551	544	21.6	8.4	72.8	44.6	13.8	3.2	1.64
Reentrants .....	1,152	1,144	16.9	6.6	68.1	40.8	13.0	5.8	1.51
New entrants .....	352	345	15.2	6.4	63.7	29.1	20.5	10.2	1.45

<sup>1</sup> Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**A-21. Employed civilians in agriculture and nonagricultural industries by age and sex**

(In thousands)

Industry and age	Total		Men		Women	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
All industries .....	118,194	118,299	64,684	64,596	53,509	53,702
16 to 19 years .....	6,481	5,777	3,317	2,990	3,164	2,787
16 to 17 years .....	2,525	2,085	1,269	1,081	1,256	1,004
18 to 19 years .....	3,956	3,692	2,048	1,909	1,908	1,783
20 to 24 years .....	12,743	12,516	6,706	6,521	6,037	5,995
25 to 54 years .....	83,963	84,987	46,115	46,548	37,848	38,439
25 to 34 years .....	34,417	33,850	19,104	18,806	15,313	15,044
35 to 44 years .....	30,003	31,078	16,311	16,813	13,692	14,265
45 to 54 years .....	19,542	20,059	10,699	10,929	8,843	9,130
55 to 64 years .....	11,629	11,619	6,591	6,631	5,039	4,988
55 to 59 years .....	6,889	6,946	3,882	3,921	3,008	3,025
60 to 64 years .....	4,740	4,672	2,709	2,710	2,031	1,963
65 years and over .....	3,377	3,400	1,956	1,907	1,422	1,493
Agriculture .....	3,309	3,280	2,589	2,582	720	698
16 to 19 years .....	221	243	188	210	33	33
16 to 17 years .....	106	108	92	101	14	8
18 to 19 years .....	116	135	96	110	20	25
20 to 24 years .....	344	394	276	337	68	57
25 to 54 years .....	1,997	1,922	1,515	1,445	482	477
25 to 34 years .....	810	800	632	620	177	180
35 to 44 years .....	713	679	533	502	180	177
45 to 54 years .....	474	443	349	324	125	120
55 to 64 years .....	442	426	362	338	79	88
55 to 59 years .....	229	226	185	180	44	46
60 to 64 years .....	212	200	177	158	35	42
65 years and over .....	305	295	248	251	57	43
Nonagricultural industries .....	114,885	115,018	62,096	62,015	52,789	53,004
16 to 19 years .....	6,260	5,534	3,129	2,780	3,130	2,754
16 to 17 years .....	2,419	1,976	1,177	980	1,242	996
18 to 19 years .....	3,841	3,558	1,952	1,800	1,889	1,758
20 to 24 years .....	12,400	12,122	6,430	6,184	5,969	5,938
25 to 54 years .....	81,966	83,065	44,600	45,103	37,365	37,962
25 to 34 years .....	33,608	33,051	18,472	18,187	15,136	14,864
35 to 44 years .....	29,290	30,399	15,778	16,311	13,512	14,088
45 to 54 years .....	19,068	19,615	10,350	10,605	8,718	9,010
55 to 64 years .....	11,188	11,192	6,228	6,293	4,959	4,900
55 to 59 years .....	6,660	6,720	3,697	3,741	2,963	2,979
60 to 64 years .....	4,528	4,472	2,532	2,551	1,996	1,921
65 years and over .....	3,072	3,105	1,708	1,656	1,365	1,450

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-22. Employed civilians by occupation, sex, and age**

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
Total .....	118,194	118,299	64,684	64,596	61,367	61,606	53,509	53,702	50,345	50,915
Managerial and professional specialty .....	31,224	30,879	17,023	16,714	16,903	16,636	14,201	14,165	14,068	14,051
Executive, administrative, and managerial .....	15,146	14,792	9,144	8,898	9,093	8,857	6,002	5,894	5,961	5,851
Officials and administrators, public administration .....	627	536	372	344	372	343	255	191	255	191
Other executive, administrative, and managerial .....	10,523	10,510	6,758	6,692	6,711	6,653	3,765	3,818	3,738	3,792
Management-related occupations .....	3,996	3,746	2,014	1,862	2,010	1,861	1,982	1,884	1,968	1,867
Professional specialty .....	16,078	16,087	7,879	7,816	7,810	7,779	8,199	8,271	8,107	8,201
Engineers .....	1,860	1,868	1,707	1,726	1,707	1,727	154	142	150	142
Mathematical and computer scientists .....	942	871	585	522	580	522	357	349	354	348
Natural scientists .....	371	387	266	284	262	283	106	103	106	102
Health diagnosing occupations .....	889	897	725	712	726	712	163	185	163	185
Health assessment and treating occupations .....	2,260	2,263	349	314	345	315	1,910	1,948	1,905	1,946
Teachers, college and university .....	780	836	490	500	490	492	290	336	286	321
Teachers, except college and university .....	4,202	4,186	1,095	1,077	1,080	1,072	3,107	3,109	3,072	3,079
Lawyers and judges .....	844	818	644	654	644	654	200	164	197	164
Other professional specialty occupations .....	3,930	3,963	2,017	2,026	1,976	2,003	1,912	1,936	1,873	1,913
Technical, sales, and administrative support .....	36,009	36,518	12,621	12,891	11,926	12,264	23,388	23,627	21,624	22,148
Technicians and related support .....	3,543	3,819	1,850	1,951	1,835	1,919	1,693	1,868	1,667	1,847
Health technologists and technicians .....	1,274	1,351	210	229	208	228	1,064	1,121	1,052	1,117
Engineering and science technicians .....	1,141	1,209	907	933	896	912	234	276	226	269
Technicians, except health, engineering, and science .....	1,128	1,260	733	788	730	779	396	471	389	461
Sales occupations .....	14,006	14,055	7,131	7,098	6,697	6,749	6,875	6,957	5,826	6,040
Supervisors and proprietors .....	3,933	3,797	2,562	2,436	2,532	2,420	1,371	1,361	1,338	1,330
Sales representatives, finance and business services .....	2,303	2,456	1,316	1,386	1,299	1,372	987	1,070	952	1,056
Sales representatives, commodities, except retail .....	1,618	1,641	1,275	1,273	1,274	1,267	344	367	336	362
Sales workers, retail and personal services .....	6,084	6,099	1,960	1,972	1,574	1,660	4,124	4,127	3,152	3,264
Sales-related occupations .....	68	62	18	30	18	31	50	32	48	29
Administrative support, including clerical .....	18,460	18,644	3,640	3,842	3,394	3,596	14,820	14,802	14,132	14,261
Supervisors .....	749	822	309	356	308	355	441	467	439	462
Computer equipment operators .....	815	801	309	294	296	279	506	507	488	488
Secretaries, stenographers, and typists .....	4,823	4,552	95	87	86	82	4,728	4,465	4,578	4,376
Financial records processing .....	2,424	2,362	196	189	191	182	2,228	2,174	2,192	2,120
Mail and message distributing .....	927	982	600	631	583	609	326	351	315	333
Other administrative support, including clerical .....	8,722	9,125	2,131	2,286	1,930	2,088	6,591	6,838	6,121	6,484
Service occupations .....	15,407	15,758	6,030	6,148	5,072	5,237	9,377	9,610	8,417	8,671
Private household .....	798	777	28	25	16	23	771	753	650	642
Protective service .....	1,883	1,926	1,588	1,621	1,550	1,587	295	305	286	288
Service, except private household and protective .....	12,726	13,055	4,414	4,502	3,506	3,627	8,312	8,553	7,481	7,742
Food service .....	5,335	5,413	2,134	2,216	1,424	1,538	3,200	3,197	2,621	2,661
Health service .....	1,965	2,152	188	201	173	189	1,777	1,951	1,696	1,864
Cleaning and building service .....	3,040	3,067	1,718	1,687	1,577	1,547	1,322	1,380	1,270	1,309
Personal service .....	2,387	2,423	374	398	332	353	2,013	2,025	1,894	1,907
Precision production, craft, and repair .....	13,930	13,625	12,703	12,524	12,433	12,279	1,226	1,101	1,193	1,071
Mechanics and repairers .....	4,482	4,478	4,312	4,330	4,217	4,260	170	149	170	145
Construction trades .....	5,404	5,182	5,289	5,099	5,154	4,961	114	83	111	80
Other precision production, craft, and repair .....	4,044	3,965	3,102	3,096	3,062	3,058	942	869	912	846
Operators, fabricators, and laborers .....	18,145	18,084	13,402	13,454	12,366	12,575	4,743	4,630	4,509	4,440
Machine operators, assemblers, and inspectors .....	8,160	8,158	4,854	4,925	4,686	4,776	3,306	3,234	3,188	3,147
Manufacturing industries .....	6,704	6,583	3,947	3,973	3,825	3,852	2,757	2,609	2,670	2,548
Durable goods .....	3,675	3,596	2,513	2,550	2,451	2,474	1,161	1,046	1,135	1,024
Nondurable goods .....	3,030	2,986	1,433	1,423	1,375	1,378	1,596	1,563	1,534	1,524
Nonmanufacturing industries .....	1,456	1,576	907	951	861	925	549	625	518	599
Transportation and material moving occupations .....	5,113	5,013	4,629	4,558	4,494	4,449	484	455	465	447
Motor vehicle operators .....	3,768	3,659	3,336	3,262	3,216	3,175	432	397	415	390
Other transportation and material moving occupations .....	1,345	1,354	1,293	1,296	1,278	1,274	52	57	50	57
Handlers, equipment cleaners, helpers, and laborers .....	4,872	4,913	3,919	3,971	3,186	3,349	953	942	856	846
Construction laborers .....	733	742	705	722	651	658	28	20	24	16
Other handlers, equipment cleaners, helpers, and laborers .....	4,139	4,171	3,213	3,249	2,535	2,691	926	922	831	830
Farming, forestry, and fishing .....	3,478	3,434	2,905	2,865	2,667	2,617	573	569	534	533
Farm operators and managers .....	1,338	1,223	1,125	988	1,098	970	212	235	208	228
Other farming, forestry, and fishing occupations .....	2,141	2,212	1,780	1,877	1,570	1,647	361	334	326	304

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-23. Employed civilians by occupation, race, and sex**

(Percent distribution)

Occupation and race	Total		Men		Women	
	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	118,194	118,299	64,684	64,596	53,509	53,702
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.4	26.1	26.3	25.9	26.5	26.4
Executive, administrative, and managerial .....	12.8	12.5	14.1	13.8	11.2	11.0
Professional specialty .....	13.6	13.6	12.2	12.1	15.3	15.4
Technical, sales, and administrative support .....	30.5	30.9	19.5	20.0	43.7	44.0
Technicians and related support .....	3.0	3.2	2.9	3.0	3.2	3.5
Sales occupations .....	11.9	11.9	11.0	11.0	12.8	13.0
Administrative support, including clerical .....	15.6	15.8	5.6	5.9	27.7	27.6
Service occupations .....	13.0	13.3	9.3	9.5	17.5	17.9
Private household .....	.7	.7	-	-	1.4	1.4
Protective service .....	1.6	1.6	2.5	2.5	.6	.6
Service, except private household and protective .....	10.8	11.0	6.8	7.0	15.5	15.9
Precision production, craft, and repair .....	11.8	11.5	19.6	19.4	2.3	2.1
Operators, fabricators, and laborers .....	15.4	15.3	20.7	20.8	8.9	8.6
Machine operators, assemblers, and inspectors .....	6.9	6.9	7.5	7.6	6.2	6.0
Transportation and material moving occupations .....	4.3	4.2	7.2	7.1	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.2	6.1	6.1	1.8	1.8
Farming, forestry, and fishing .....	2.9	2.9	4.5	4.4	1.1	1.1
<b>White</b>						
Total, 16 years and over (thousands) .....	102,291	102,452	56,639	56,545	45,652	45,907
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	27.5	27.1	27.5	27.0	27.5	27.2
Executive, administrative, and managerial .....	13.5	13.1	14.9	14.5	11.7	11.4
Professional specialty .....	14.0	13.9	12.6	12.4	15.8	15.8
Technical, sales, and administrative support .....	30.8	31.3	19.7	20.1	44.6	45.2
Technicians and related support .....	3.0	3.2	2.9	3.1	3.1	3.4
Sales occupations .....	12.4	12.4	11.7	11.6	13.4	13.5
Administrative support, including clerical .....	15.4	15.7	5.2	5.4	28.2	28.3
Service occupations .....	11.8	12.1	8.2	8.5	16.2	16.6
Private household .....	.5	.5	-	-	1.2	1.1
Protective service .....	1.5	1.5	2.3	2.4	.5	.5
Service, except private household and protective .....	9.7	10.1	5.9	6.1	14.5	15.0
Precision production, craft, and repair .....	12.2	12.0	20.2	20.1	2.2	2.0
Operators, fabricators, and laborers .....	14.5	14.4	19.6	19.7	8.2	7.8
Machine operators, assemblers, and inspectors .....	6.5	6.5	7.2	7.4	5.7	5.3
Transportation and material moving occupations .....	4.2	4.0	6.8	6.6	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.8	3.9	5.6	5.7	1.6	1.7
Farming, forestry, and fishing .....	3.2	3.1	4.7	4.6	1.2	1.2
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,988	11,957	5,940	5,940	6,048	6,018
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	16.3	16.8	14.0	14.0	18.6	19.6
Executive, administrative, and managerial .....	7.6	7.5	7.4	7.5	7.7	7.6
Professional specialty .....	8.8	9.3	6.5	6.5	10.9	12.0
Technical, sales, and administrative support .....	27.8	27.7	17.2	17.9	38.3	37.4
Technicians and related support .....	2.8	2.9	2.3	1.9	3.3	3.8
Sales occupations .....	7.5	7.5	5.5	5.4	9.5	9.6
Administrative support, including clerical .....	17.6	17.3	9.4	10.5	25.5	24.0
Service occupations .....	23.2	22.5	18.7	17.6	27.7	27.4
Private household .....	1.7	1.7	.1	-	3.3	3.3
Protective service .....	2.6	2.6	4.3	3.7	.9	1.4
Service, except private household and protective .....	18.9	18.3	14.3	13.8	23.4	22.6
Precision production, craft, and repair .....	8.7	8.2	15.2	14.6	2.2	1.9
Operators, fabricators, and laborers .....	22.4	23.2	32.0	33.0	12.9	13.4
Machine operators, assemblers, and inspectors .....	9.8	10.1	10.5	10.3	9.1	9.9
Transportation and material moving occupations .....	6.0	6.5	11.2	12.1	.9	1.0
Handlers, equipment cleaners, helpers, and laborers .....	6.6	6.6	10.3	10.6	2.9	2.5
Farming, forestry, and fishing .....	1.6	1.6	2.9	3.0	.3	.3

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-24. Employed civilians by age, sex, and class of worker**

(In thousands)

Age and sex	October 1990								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over .....	105,734	1,030	17,944	86,760	9,049	236	1,790	1,396	94
16 to 19 years .....	5,463	143	283	5,037	63	8	194	38	11
16 to 17 years .....	1,947	88	68	1,792	24	6	92	11	6
18 to 19 years .....	3,516	55	215	3,245	39	3	102	27	5
20 to 24 years .....	11,826	112	1,109	10,605	285	11	329	54	11
25 to 34 years .....	31,032	176	4,311	26,545	1,987	31	527	269	3
35 to 44 years .....	27,667	182	5,776	21,708	2,665	67	328	328	22
45 to 54 years .....	17,562	150	3,947	13,465	2,010	43	189	237	18
55 to 64 years .....	9,700	141	2,097	7,462	1,443	50	163	250	14
55 to 59 years .....	5,865	65	1,365	4,434	824	32	95	127	4
60 to 64 years .....	3,835	76	731	3,027	619	18	67	123	10
65 years and over .....	2,484	125	421	1,938	596	25	60	220	15
Men, 16 years and over .....	56,134	154	8,256	47,723	5,847	34	1,400	1,146	35
16 to 19 years .....	2,735	29	136	2,570	38	7	167	32	12
16 to 17 years .....	964	26	32	906	11	5	83	11	6
18 to 19 years .....	1,771	4	103	1,664	27	2	83	20	6
20 to 24 years .....	6,027	35	464	5,528	154	3	279	50	8
25 to 34 years .....	16,896	24	2,058	14,814	1,281	10	392	226	2
35 to 44 years .....	14,674	22	2,589	12,063	1,634	3	234	266	2
45 to 54 years .....	9,281	17	1,795	7,469	1,323	1	150	174	-
55 to 64 years .....	5,285	19	1,016	4,251	1,004	3	130	203	5
55 to 59 years .....	3,160	8	653	2,499	578	3	77	102	1
60 to 64 years .....	2,125	11	362	1,752	426	1	54	101	3
65 years and over .....	1,236	9	199	1,029	413	6	49	195	7
Women, 16 years and over .....	49,600	876	9,687	39,037	3,202	202	390	250	59
16 to 19 years .....	2,728	114	147	2,467	25	2	27	7	-
16 to 17 years .....	983	62	35	886	12	1	8	-	-
18 to 19 years .....	1,745	52	112	1,581	12	1	19	7	-
20 to 24 years .....	5,799	77	645	5,077	131	7	50	4	3
25 to 34 years .....	14,136	152	2,253	11,731	706	21	135	43	2
35 to 44 years .....	12,993	161	3,187	9,645	1,031	64	94	62	21
45 to 54 years .....	8,281	133	2,152	5,996	687	42	39	63	18
55 to 64 years .....	4,415	122	1,081	3,211	439	46	33	46	9
55 to 59 years .....	2,705	58	712	1,935	245	29	19	25	2
60 to 64 years .....	1,710	65	369	1,276	194	17	14	21	7
65 years and over .....	1,248	116	222	909	183	19	11	25	8



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-25. Employed civilians by industry and occupation**

(In thousands)

Industry	October 1990												
	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 .....	3,280	129	85	47	20	102	-	13	35	17	68	24	2,742
Mining .....	712	118	44	28	11	64	-	5	245	29	118	48	2
Construction .....	7,702	997	136	72	82	386	-	38	4,448	111	577	835	19
Manufacturing .....	21,106	2,534	1,799	766	753	2,399	-	349	3,782	6,583	827	1,215	100
Durable goods .....	12,495	1,545	1,244	543	310	1,402	-	202	2,583	3,596	423	557	91
Nondurable goods .....	8,611	989	554	222	443	997	-	147	1,199	2,986	404	659	9
Transportation and public utilities .....	8,301	923	419	279	339	2,196	-	339	1,256	135	1,910	495	11
Wholesale and retail trade .....	24,340	2,162	493	154	9,891	2,516	-	4,485	1,544	337	907	1,805	45
Wholesale trade .....	4,688	541	92	57	1,907	762	-	41	362	132	409	376	9
Retail trade .....	19,652	1,621	401	97	7,984	1,754	-	4,444	1,182	205	498	1,430	36
Finance, insurance, and real estate .....	7,975	2,019	226	129	1,980	3,038	-	274	169	28	18	32	62
Services .....	39,482	4,780	12,078	2,089	970	6,487	777	8,162	1,930	859	529	407	416
Private households .....	1,035	4	8	2	3	9	777	104	19	4	8	24	73
Other service industries .....	38,447	4,775	12,069	2,087	967	6,478	-	8,058	1,911	855	521	383	343
Professional services .....	25,859	2,716	10,716	1,741	157	4,774	-	4,659	384	217	287	117	92
Public administration .....	5,399	1,130	807	255	9	1,456	-	1,316	217	60	59	51	37

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

**A-26. Employed civilians with a job but not at work by reason, sex, and pay status**

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Oct. 1989	Oct. 1990	Total		Wage and salary workers <sup>1</sup>			
			Oct. 1989	Oct. 1990	Paid absences		Unpaid absences	
					Oct. 1989	Oct. 1990	Oct. 1989	Oct. 1990
Total, 16 years and over .....	4,727	4,600	4,630	4,475	2,396	2,318	1,785	1,626
Vacation .....	2,216	2,208	2,176	2,159	1,579	1,531	409	404
Illness .....	1,407	1,278	1,376	1,249	555	548	705	610
Bad weather .....	30	69	30	57	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	106	22	106	21	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	968	1,023	941	989	262	239	671	612
Men, 16 years and over .....	2,469	2,311	2,394	2,213	1,285	1,222	852	683
Vacation .....	1,276	1,192	1,247	1,157	934	866	206	177
Illness .....	703	633	679	606	266	263	350	286
All other reasons <sup>3</sup> .....	489	485	467	450	85	94	296	221
Women, 16 years and over .....	2,258	2,289	2,236	2,262	1,110	1,096	933	942
Vacation .....	939	1,017	929	1,002	645	666	203	228
Illness .....	704	645	697	643	289	285	355	324
All other reasons <sup>3</sup> .....	615	628	610	618	175	145	375	391

<sup>1</sup> Excludes private household workers.

<sup>2</sup> Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

<sup>3</sup> Includes bad weather and industrial dispute, not shown separately.

NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-27. Persons at work by hours of work and type of industry**

Hours of work	October 1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	113,698	3,155	110,543	100.0	100.0	100.0
1 to 34 hours .....	30,012	813	29,199	26.4	25.8	26.4
1 to 4 hours .....	718	45	673	.6	1.4	.6
5 to 14 hours .....	4,456	178	4,277	3.9	5.6	3.9
15 to 29 hours .....	14,030	379	13,651	12.3	12.0	12.3
30 to 34 hours .....	10,810	212	10,598	9.5	6.7	9.6
35 hours and over .....	83,686	2,342	81,344	73.6	74.2	73.6
35 to 39 hours .....	7,035	162	6,873	6.2	5.1	6.2
40 hours .....	42,948	664	42,284	37.8	21.0	38.3
41 hours and over .....	33,703	1,516	32,187	29.6	48.1	29.1
41 to 48 hours .....	11,172	226	10,946	9.8	7.2	9.9
49 to 59 hours .....	12,687	414	12,273	11.2	13.1	11.1
60 hours and over .....	9,844	875	8,968	8.7	27.7	8.1
Average hours, total at work .....	39.3	45.5	39.1	-	-	-
Average hours, workers on full-time schedules .....	43.6	52.7	43.4	-	-	-

**A-28. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status**

(Numbers in thousands)

Reason for working less than 35 hours	October 1990					
	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 .....	30,012	10,732	19,280	29,199	10,486	18,713
Economic reasons .....	5,052	1,814	3,238	4,788	1,704	3,084
Slack work .....	2,522	1,456	1,066	2,324	1,353	971
Material shortages or repairs to plant and equipment .....	50	50	-	49	49	-
New job started during week .....	214	214	-	212	212	-
Job terminated during week .....	93	93	-	90	90	-
Could find only part-time work .....	2,172	-	2,172	2,114	-	2,114
Other reasons .....	24,960	8,918	16,042	24,411	8,783	15,628
Does not want, or unavailable for, full-time work .....	13,306	-	13,306	12,970	-	12,970
Vacation .....	1,357	1,357	-	1,347	1,347	-
Illness .....	1,534	1,359	175	1,511	1,344	167
Bad weather .....	488	488	-	416	416	-
Industrial dispute .....	5	5	-	5	5	-
Legal or religious holiday .....	4,321	4,321	-	4,314	4,314	-
Full time for this job .....	1,830	-	1,830	1,793	-	1,793
All other reasons .....	2,120	1,389	731	2,055	1,357	698
Average hours:						
Economic reasons .....	22.4	24.6	21.2	22.5	24.6	21.3
Other reasons .....	22.7	28.3	19.5	22.8	28.4	19.6
Worked 30 to 34 hours:						
Economic reasons .....	1,632	853	779	1,544	803	741
Other reasons .....	9,178	6,067	3,111	9,054	6,018	3,036

A-29. Persons at work in nonagricultural industries by class of worker and full- or part-time status

(Numbers in thousands)

Industry	October 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	110,543	4,788	15,628	90,127	57,940	10,946	21,241	39.1	43.4
Wage and salary workers .....	101,759	4,175	14,024	83,560	54,975	10,309	18,275	39.0	43.0
Mining .....	668	12	16	640	313	97	230	46.6	47.8
Construction .....	5,883	431	231	5,220	3,503	573	1,145	40.2	42.6
Manufacturing .....	19,848	496	658	18,693	12,009	2,865	3,819	42.1	43.2
Durable goods .....	11,793	218	314	11,260	7,152	1,820	2,289	42.4	43.3
Nondurable goods .....	8,055	278	344	7,433	4,857	1,046	1,530	41.6	43.2
Transportation and public utilities .....	7,563	204	437	6,922	4,376	861	1,685	42.0	43.9
Wholesale and retail trade .....	21,710	1,371	5,091	15,248	9,234	2,133	3,881	37.1	44.0
Finance, insurance, and real estate .....	6,983	118	596	6,269	4,445	615	1,210	39.5	41.6
Service industries .....	33,966	1,502	6,746	25,719	17,366	2,780	5,574	37.2	42.9
Private households .....	1,005	159	417	429	260	64	104	28.1	45.7
All other industries .....	32,961	1,343	6,329	25,290	17,105	2,715	5,469	37.5	42.8
Public administration .....	5,138	41	249	4,848	3,730	386	732	39.3	40.4
Self-employed workers .....	8,549	598	1,510	6,441	2,886	628	2,928	40.9	48.1
Unpaid family workers .....	236	15	94	127	79	10	38	33.9	44.2

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status**

(Numbers in thousands)

Sex, age, race, and marital status	October 1990							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	110,543	4,788	15,628	90,127	57,940	32,187	39.1	43.4
16 to 19 years .....	5,395	450	3,227	1,718	1,339	380	24.5	40.3
16 to 17 years .....	1,919	80	1,685	153	137	16	16.7	35.7
18 to 19 years .....	3,476	370	1,542	1,565	1,201	363	28.8	40.8
20 years and over .....	105,148	4,338	12,401	88,409	56,602	31,808	39.9	43.5
20 to 24 years .....	11,780	784	2,315	8,681	6,148	2,533	36.3	42.0
25 years and over .....	93,369	3,554	10,086	79,728	50,453	29,275	40.3	43.6
25 to 44 years .....	61,189	2,305	5,585	53,299	33,235	20,064	40.9	43.7
45 to 64 years .....	29,306	1,124	3,093	25,089	16,238	8,851	40.3	43.5
65 years and over .....	2,874	126	1,408	1,339	980	359	28.6	41.5
<b>Men, 16 years and over</b> .....	59,802	2,207	4,656	52,939	30,313	22,625	42.1	45.0
16 to 19 years .....	2,712	192	1,536	985	736	249	26.0	41.2
16 to 17 years .....	948	34	829	85	75	10	17.1	34.5
18 to 19 years .....	1,764	157	707	900	661	239	30.7	41.8
20 years and over .....	57,089	2,016	3,120	51,954	29,577	22,376	42.9	45.0
20 to 24 years .....	6,044	353	987	4,703	3,053	1,650	38.1	43.2
25 years and over .....	51,046	1,662	2,133	47,251	26,524	20,726	43.4	45.2
25 to 44 years .....	33,404	1,108	822	31,474	17,307	14,167	44.1	45.4
45 to 64 years .....	16,112	489	650	14,973	8,671	6,302	43.4	45.0
65 years and over .....	1,529	65	660	804	546	258	31.0	42.9
<b>Women, 16 years and over</b> .....	50,742	2,581	10,972	37,189	27,627	9,562	35.6	41.2
16 to 19 years .....	2,683	258	1,691	733	603	131	23.0	39.2
16 to 17 years .....	971	46	856	69	62	6	16.3	( <sup>1</sup> )
18 to 19 years .....	1,712	212	835	665	541	124	26.8	39.4
20 years and over .....	48,059	2,322	9,281	36,455	27,024	9,431	36.3	41.2
20 to 24 years .....	5,736	430	1,328	3,978	3,095	883	34.4	40.7
25 years and over .....	42,323	1,892	7,954	32,477	23,929	8,548	36.6	41.3
25 to 44 years .....	27,784	1,195	4,763	21,826	15,929	5,897	37.1	41.3
45 to 64 years .....	13,194	635	2,444	10,115	7,567	2,548	36.5	41.2
65 years and over .....	1,345	61	748	536	434	102	26.0	39.2
<b>RACE</b>								
White, 16 years and over .....	95,543	3,954	13,977	77,612	48,376	29,236	39.2	43.6
Men .....	52,237	1,832	4,055	46,350	25,670	20,680	42.4	45.2
Women .....	43,306	2,122	9,922	31,262	22,706	8,555	35.4	41.3
Black, 16 years and over .....	11,337	682	1,190	9,464	7,382	2,082	38.2	41.6
Men .....	5,588	300	425	4,864	3,504	1,359	40.1	42.9
Women .....	5,748	382	766	4,600	3,878	722	36.4	40.2
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	38,119	954	1,483	35,682	19,495	16,187	43.8	45.4
Widowed, divorced, or separated .....	6,438	330	267	5,842	3,387	2,454	42.9	45.1
Single (never married) .....	15,245	924	2,906	11,415	7,431	3,983	37.5	43.5
Women, 16 years and over:								
Married, spouse present .....	28,281	1,219	6,430	20,632	15,653	4,979	35.4	40.8
Widowed, divorced, or separated .....	10,185	580	1,360	8,245	5,806	2,439	37.9	41.8
Single (never married) .....	12,276	781	3,182	8,312	6,168	2,144	34.1	41.4

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

A-31. Persons at work in nonfarm occupations by sex and full- or part-time status

(Numbers in thousands)

Occupation and sex	October 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup>	110,403	4,740	15,603	90,061	57,800	10,977	21,284	39.1	43.4
Managerial and professional specialty	29,727	564	2,908	26,255	14,488	3,142	8,625	42.0	44.9
Executive, administrative, and managerial	14,222	198	876	13,148	6,794	1,605	4,749	43.8	45.6
Professional specialty	15,505	366	2,032	13,107	7,694	1,537	3,876	40.3	44.3
Technical, sales, and administrative support	35,128	1,197	6,348	27,583	18,898	3,165	5,521	37.7	42.5
Technicians and related support	3,676	77	443	3,157	2,166	419	572	39.6	42.6
Sales occupations	13,547	620	2,765	10,162	5,385	1,281	3,497	39.3	45.6
Administrative support, including clerical	17,904	500	3,140	14,264	11,347	1,465	1,451	36.1	40.2
Service occupations	15,114	1,306	4,273	9,535	6,938	988	1,609	34.1	42.4
Private household	754	105	339	310	194	51	65	27.2	44.8
Protective service	1,835	49	147	1,639	988	227	424	42.2	45.0
Service, except private household and protective	12,526	1,152	3,788	7,586	5,756	710	1,120	33.3	41.7
Precision production, craft, and repair	13,072	649	467	11,957	7,592	1,631	2,734	41.6	43.4
Operators, fabricators, and laborers	17,362	1,024	1,607	14,731	9,885	2,050	2,795	39.8	43.1
Machine operators, assemblers, and inspectors	7,807	365	387	7,055	5,030	999	1,026	40.4	42.2
Transportation and material moving occupations	4,794	227	424	4,143	2,202	628	1,314	42.7	46.1
Handlers, equipment cleaners, helpers, and laborers	4,761	432	797	3,533	2,653	424	456	36.1	41.6
Men, 16 years and over <sup>1</sup>	59,538	2,159	4,605	52,774	30,122	6,789	15,863	42.2	45.0
Managerial and professional specialty	16,188	253	809	15,126	7,184	1,741	6,202	45.1	46.9
Executive, administrative, and managerial	8,600	107	285	8,209	3,657	931	3,620	46.2	47.4
Professional specialty	7,588	146	524	6,918	3,527	809	2,582	43.9	46.3
Technical, sales, and administrative support	12,472	251	1,294	10,927	5,826	1,430	3,671	42.4	45.7
Technicians and related support	1,886	34	130	1,722	1,066	257	399	41.7	43.9
Sales occupations	6,909	148	679	6,082	2,602	788	2,692	44.6	47.9
Administrative support, including clerical	3,678	70	485	3,123	2,158	385	580	38.8	42.3
Service occupations	5,905	386	1,141	4,377	3,010	465	903	37.1	43.3
Private household	22	3	2	18	14	-	4	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,544	41	98	1,406	825	203	378	43.1	45.3
Service, except private household and protective	4,339	343	1,042	2,954	2,170	262	521	35.0	42.3
Precision production, craft, and repair	12,015	597	315	11,103	6,949	1,527	2,626	41.9	43.5
Operators, fabricators, and laborers	12,958	672	1,046	11,241	7,153	1,627	2,461	40.8	43.9
Machine operators, assemblers, and inspectors	4,740	162	154	4,424	2,964	665	795	41.8	43.1
Transportation and material moving occupations	4,359	190	273	3,896	2,046	589	1,261	43.5	46.2
Handlers, equipment cleaners, helpers, and laborers	3,860	320	620	2,921	2,143	373	405	36.6	41.9
Women, 16 years and over <sup>1</sup>	50,865	2,581	10,998	37,287	27,678	4,187	5,421	35.6	41.2
Managerial and professional specialty	13,539	311	2,099	11,129	7,304	1,402	2,423	38.2	42.2
Executive, administrative, and managerial	5,622	91	592	4,939	3,137	674	1,129	40.1	42.6
Professional specialty	7,917	220	1,508	6,189	4,167	728	1,294	36.9	41.9
Technical, sales, and administrative support	22,656	946	5,054	16,656	13,071	1,735	1,850	35.1	40.4
Technicians and related support	1,790	43	313	1,435	1,100	162	173	37.3	41.0
Sales occupations	6,639	472	2,086	4,080	2,782	493	805	33.8	42.3
Administrative support, including clerical	14,227	430	2,655	11,141	9,189	1,080	872	35.4	39.6
Service occupations	9,209	920	3,132	5,157	3,928	523	706	32.1	41.6
Private household	731	103	337	292	180	52	61	27.0	44.9
Protective service	291	8	50	233	162	24	47	37.2	42.9
Service, except private household and protective	8,187	809	2,746	4,632	3,586	448	599	32.4	41.3
Precision production, craft, and repair	1,058	52	152	854	643	104	108	37.7	41.5
Operators, fabricators, and laborers	4,404	353	561	3,490	2,732	423	335	36.9	40.8
Machine operators, assemblers, and inspectors	3,067	204	233	2,631	2,066	334	231	38.2	40.6
Transportation and material moving occupations	435	36	151	248	156	39	53	33.9	43.2
Handlers, equipment cleaners, helpers, and laborers	901	113	177	612	510	51	51	34.1	40.4

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-32. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted**

(Numbers in thousands)

Employment status and sex	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	188,580	188,721	188,865	188,990	189,090	189,198	189,326	189,467	189,607	189,763	189,901	190,002	190,095
Labor force <sup>1</sup> .....	125,857	126,192	126,246	126,094	126,308	126,498	126,543	126,643	126,466	126,394	126,300	126,568	126,354
Percent of population <sup>2</sup> .....	66.7	66.9	66.8	66.7	66.8	66.9	66.8	66.8	66.7	66.6	66.5	66.6	66.5
Total employed <sup>1</sup> .....	119,294	119,540	119,588	119,560	119,713	120,003	119,773	119,989	120,019	119,580	119,298	119,499	119,281
Employment-population ratio <sup>3</sup> .....	63.3	63.3	63.3	63.3	63.3	63.4	63.3	63.3	63.3	63.0	62.8	62.9	62.7
Resident Armed Forces .....	1,709	1,704	1,700	1,697	1,678	1,669	1,657	1,639	1,630	1,627	1,640	1,601	1,570
Civilian employed .....	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898	117,711
Agriculture .....	3,197	3,160	3,197	3,134	3,079	3,200	3,133	3,305	3,348	3,085	3,137	3,181	3,167
Nonagricultural industries .....	114,388	114,676	114,691	114,728	114,957	115,133	114,983	115,045	115,041	114,867	114,521	114,717	114,545
Unemployed .....	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447	6,814	7,003	7,069	7,073
Unemployment rate <sup>4</sup> .....	5.2	5.3	5.3	5.2	5.2	5.1	5.3	5.3	5.1	5.4	5.5	5.6	5.6
Not in labor force .....	62,723	62,529	62,619	62,896	62,782	62,700	62,783	62,824	63,141	63,369	63,601	63,434	63,741
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	90,535	90,606	90,678	90,772	90,822	90,874	90,942	91,014	91,087	91,168	91,240	91,271	91,299
Labor force <sup>1</sup> .....	69,599	69,635	69,725	69,539	69,639	69,712	69,779	69,737	69,599	69,544	69,459	69,809	69,780
Percent of population <sup>2</sup> .....	76.9	76.9	76.9	76.6	76.7	76.7	76.7	76.6	76.4	76.3	76.1	76.5	76.4
Total employed <sup>1</sup> .....	66,046	66,011	66,143	65,943	66,108	66,208	66,043	66,058	66,000	65,740	65,596	65,867	65,862
Employment-population ratio <sup>3</sup> .....	73.0	72.9	72.9	72.6	72.8	72.9	72.6	72.6	72.5	72.1	71.9	72.2	72.1
Resident Armed Forces .....	1,533	1,529	1,525	1,523	1,506	1,497	1,499	1,472	1,465	1,462	1,475	1,441	1,414
Civilian employed .....	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586	64,535	64,278	64,121	64,426	64,448
Unemployed .....	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679	3,599	3,804	3,863	3,943	3,918
Unemployment rate <sup>4</sup> .....	5.1	5.2	5.1	5.2	5.1	5.0	5.4	5.3	5.2	5.5	5.6	5.6	5.6
Not in labor force .....	20,936	20,971	20,953	21,233	21,183	21,162	21,163	21,277	21,488	21,624	21,781	21,462	21,519
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	98,045	98,115	98,187	98,218	98,268	98,324	98,383	98,453	98,520	98,595	98,661	98,731	98,796
Labor force <sup>1</sup> .....	56,258	56,557	56,521	56,555	56,669	56,785	56,764	56,906	56,867	56,849	56,842	56,758	56,575
Percent of population <sup>2</sup> .....	57.4	57.6	57.6	57.6	57.7	57.8	57.7	57.8	57.7	57.7	57.6	57.5	57.3
Total employed <sup>1</sup> .....	53,248	53,529	53,445	53,617	53,605	53,795	53,729	53,931	54,019	53,839	53,702	53,632	53,419
Employment-population ratio <sup>3</sup> .....	54.3	54.6	54.4	54.6	54.5	54.7	54.6	54.8	54.8	54.6	54.4	54.3	54.1
Resident Armed Forces .....	176	175	175	174	172	172	158	167	165	165	165	160	156
Civilian employed .....	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764	53,854	53,674	53,537	53,472	53,263
Unemployed .....	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975	2,848	3,010	3,140	3,126	3,156
Unemployment rate <sup>4</sup> .....	5.4	5.4	5.4	5.2	5.4	5.3	5.3	5.2	5.0	5.3	5.5	5.5	5.6
Not in labor force .....	41,787	41,558	41,666	41,663	41,599	41,539	41,619	41,547	41,653	41,746	41,819	41,973	42,221

<sup>1</sup> Includes members of the Armed Forces stationed in the United States.

<sup>2</sup> Labor force as a percent of the noninstitutional population.

<sup>3</sup> Total employment as a percent of the noninstitutional population.

<sup>4</sup> Unemployment as a percent of the labor force (including the resident

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

A-33. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	186,871	187,017	187,165	187,293	187,412	187,529	187,669	187,828	187,977	188,136	188,261	188,401	188,525
Civilian labor force .....	124,148	124,488	124,546	124,397	124,630	124,829	124,886	125,004	124,836	124,767	124,660	124,967	124,784
Percent of population .....	66.4	66.6	66.5	66.4	66.5	66.6	66.5	66.6	66.4	66.3	66.2	66.3	66.2
Employed .....	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898	117,711
Employment-population ratio <sup>2</sup> .....	62.9	63.0	63.0	62.9	63.0	63.1	62.9	63.0	63.0	62.7	62.5	62.6	62.4
Unemployed .....	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447	6,814	7,003	7,069	7,073
Unemployment rate .....	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2	5.5	5.6	5.7	5.7
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	81,905	81,968	82,055	82,168	82,248	82,378	82,487	82,581	82,676	82,790	82,862	82,940	83,013
Civilian labor force .....	63,918	63,967	64,071	63,958	64,101	64,183	64,251	64,312	64,364	64,344	64,362	64,573	64,559
Percent of population .....	78.0	78.0	78.1	77.8	77.9	77.9	77.9	77.9	77.9	77.7	77.7	77.9	77.8
Employed .....	61,026	61,033	61,154	60,976	61,172	61,270	61,138	61,265	61,345	61,196	61,143	61,264	61,270
Employment-population ratio <sup>2</sup> .....	74.5	74.5	74.5	74.2	74.4	74.4	74.1	74.2	74.2	73.9	73.8	73.9	73.8
Agriculture .....	2,304	2,292	2,293	2,269	2,254	2,268	2,258	2,388	2,400	2,262	2,246	2,295	2,271
Nonagricultural industries .....	58,722	58,741	58,861	58,706	58,918	59,002	58,879	58,877	58,945	58,934	58,897	58,969	58,999
Unemployed .....	2,892	2,934	2,917	2,983	2,929	2,913	3,113	3,047	3,019	3,148	3,219	3,309	3,289
Unemployment rate .....	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7	4.7	4.9	5.0	5.1	5.1
Not in labor force .....	17,987	18,001	17,984	18,210	18,147	18,195	18,236	18,269	18,312	18,446	18,500	18,367	18,454
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	90,860	90,952	91,042	91,091	91,157	91,237	91,330	91,414	91,495	91,581	91,688	91,765	91,857
Civilian labor force .....	52,281	52,541	52,586	52,686	52,814	52,800	52,954	53,146	53,174	53,211	53,315	53,121	52,983
Percent of population .....	57.5	57.8	57.8	57.8	57.9	57.9	58.0	58.1	58.1	58.1	58.1	57.9	57.7
Employed .....	49,796	50,043	50,048	50,255	50,287	50,344	50,427	50,709	50,776	50,719	50,699	50,489	50,370
Employment-population ratio <sup>2</sup> .....	54.8	55.0	55.0	55.2	55.2	55.2	55.2	55.5	55.5	55.4	55.3	55.0	54.8
Agriculture .....	641	624	618	594	582	648	669	680	700	585	639	619	619
Nonagricultural industries .....	49,155	49,419	49,430	49,661	49,704	49,696	49,758	50,029	50,077	50,135	50,060	49,870	49,752
Unemployed .....	2,485	2,498	2,538	2,431	2,527	2,456	2,526	2,438	2,398	2,492	2,616	2,632	2,613
Unemployment rate .....	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6	4.5	4.7	4.9	5.0	4.9
Not in labor force .....	38,579	38,411	38,456	38,405	38,343	38,437	38,376	38,268	38,321	38,370	38,373	38,644	38,874
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,107	14,097	14,067	14,034	14,008	13,914	13,852	13,832	13,806	13,764	13,711	13,696	13,655
Civilian labor force .....	7,949	7,980	7,889	7,752	7,715	7,846	7,681	7,545	7,296	7,212	6,983	7,272	7,243
Percent of population .....	56.3	56.6	56.1	55.2	55.1	56.4	55.4	54.6	52.9	52.4	50.9	53.1	53.0
Employed .....	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376	6,268	6,038	5,815	6,144	6,071
Employment-population ratio <sup>2</sup> .....	47.9	48.0	47.5	47.3	47.0	48.3	47.3	46.1	45.4	43.9	42.4	44.9	44.5
Agriculture .....	252	244	286	270	243	285	206	237	249	239	251	266	277
Nonagricultural industries .....	6,511	6,516	6,400	6,361	6,334	6,435	6,345	6,139	6,019	5,799	5,564	5,878	5,794
Unemployed .....	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169	1,030	1,174	1,168	1,128	1,172
Unemployment rate .....	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1	16.3	16.7	15.5	16.2
Not in labor force .....	6,158	6,117	6,178	6,282	6,293	6,068	6,171	6,287	6,508	6,552	6,728	6,424	6,412

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

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional

population.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. 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	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	159,644	159,736	159,832	159,938	160,007	160,076	160,170	160,271	160,365	160,468	160,550	160,640	160,717
Civilian labor force .....	106,618	106,834	106,896	106,884	107,080	107,061	107,133	107,353	107,273	107,230	107,135	107,451	107,238
Percent of population .....	66.8	66.9	66.9	66.8	66.9	66.9	66.9	67.0	66.9	66.8	66.7	66.9	66.7
Employed .....	101,862	101,991	102,032	102,074	102,117	102,206	102,202	102,362	102,461	102,260	101,968	102,260	102,013
Employment-population ratio <sup>2</sup> .....	63.8	63.8	63.8	63.8	63.8	63.8	63.7	63.9	63.9	63.7	63.5	63.7	63.5
Unemployed .....	4,756	4,843	4,864	4,811	4,962	4,856	5,106	4,991	4,812	4,970	5,167	5,190	5,225
Unemployment rate .....	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6	4.5	4.6	4.8	4.8	4.9
<b>Men, 20 years and over</b>													
Civilian labor force .....	55,626	55,676	55,747	55,771	55,815	55,828	55,826	55,919	55,932	55,895	56,035	56,144	56,111
Percent of population .....	78.5	78.5	78.5	78.4	78.4	78.4	78.3	78.3	78.3	78.1	78.3	78.4	78.3
Employed .....	53,483	53,482	53,580	53,560	53,547	53,593	53,425	53,578	53,650	53,576	53,613	53,721	53,632
Employment-population ratio <sup>2</sup> .....	75.5	75.4	75.5	75.3	75.2	75.2	74.9	75.1	75.1	74.9	74.9	75.0	74.8
Unemployed .....	2,143	2,194	2,167	2,211	2,268	2,235	2,400	2,341	2,282	2,318	2,423	2,423	2,479
Unemployment rate .....	3.9	3.9	3.9	4.0	4.1	4.0	4.3	4.2	4.1	4.1	4.3	4.3	4.4
<b>Women, 20 years and over</b>													
Civilian labor force .....	44,207	44,360	44,469	44,475	44,615	44,523	44,740	44,925	45,055	45,120	45,100	45,000	44,888
Percent of population .....	57.1	57.3	57.4	57.4	57.5	57.4	57.6	57.8	57.9	57.9	57.9	57.7	57.5
Employed .....	42,437	42,586	42,641	42,718	42,782	42,765	42,895	43,165	43,292	43,321	43,227	43,112	43,011
Employment-population ratio <sup>2</sup> .....	54.9	55.0	55.0	55.1	55.2	55.1	55.2	55.5	55.6	55.6	55.5	55.3	55.1
Unemployed .....	1,770	1,774	1,828	1,757	1,833	1,758	1,844	1,760	1,763	1,799	1,873	1,888	1,877
Unemployment rate .....	4.0	4.0	4.1	4.0	4.1	3.9	4.1	3.9	3.9	4.0	4.2	4.2	4.2
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,785	6,798	6,680	6,639	6,650	6,710	6,568	6,509	6,286	6,216	5,999	6,306	6,239
Percent of population .....	59.4	59.7	58.9	58.7	59.0	59.8	58.8	58.4	56.6	56.1	54.3	57.3	56.9
Employed .....	5,942	5,923	5,811	5,796	5,788	5,847	5,707	5,619	5,519	5,363	5,128	5,427	5,370
Employment-population ratio <sup>2</sup> .....	52.0	52.0	51.2	51.3	51.4	52.1	51.1	50.4	49.7	48.4	46.4	49.3	49.0
Unemployed .....	843	875	869	843	862	863	861	890	767	853	871	879	869
Unemployment rate .....	12.4	12.9	13.0	12.7	13.0	12.9	13.1	13.7	12.2	13.7	14.5	13.9	13.9
Men .....	13.8	14.3	14.0	12.9	12.7	13.0	13.8	14.2	12.9	15.1	15.7	15.3	14.8
Women .....	10.9	11.3	11.9	12.4	13.2	12.7	12.4	13.1	11.4	12.3	13.2	12.5	13.0
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	21,108	21,136	21,164	21,163	21,188	21,211	21,228	21,261	21,289	21,318	21,337	21,361	21,383
Civilian labor force .....	13,507	13,576	13,522	13,510	13,437	13,581	13,570	13,587	13,472	13,379	13,366	13,470	13,493
Percent of population .....	64.0	64.2	63.9	63.8	63.4	64.0	63.9	63.9	63.3	62.8	62.6	63.1	63.1
Employed .....	11,923	11,954	11,920	11,978	12,030	12,148	12,161	12,179	12,064	11,870	11,791	11,839	11,903
Employment-population ratio <sup>2</sup> .....	56.5	56.6	56.3	56.6	56.8	57.3	57.3	57.3	56.7	55.7	55.3	55.4	55.7
Unemployed .....	1,584	1,622	1,602	1,532	1,407	1,433	1,409	1,408	1,407	1,510	1,575	1,631	1,590
Unemployment rate .....	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4	10.4	11.3	11.8	12.1	11.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,234	6,247	6,244	6,189	6,172	6,227	6,240	6,241	6,293	6,293	6,235	6,330	6,351
Percent of population .....	74.2	74.2	74.0	73.5	73.3	73.6	73.7	73.5	74.0	73.9	73.1	74.1	74.3
Employed .....	5,593	5,587	5,569	5,496	5,603	5,631	5,651	5,672	5,702	5,617	5,572	5,580	5,631
Employment-population ratio <sup>2</sup> .....	66.6	66.4	66.0	65.2	66.6	66.5	66.8	66.8	67.1	65.9	65.4	65.3	65.8
Unemployed .....	641	660	675	693	569	596	589	569	591	676	663	750	721
Unemployment rate .....	10.3	10.6	10.8	11.2	9.2	9.6	9.4	9.1	9.4	10.7	10.6	11.8	11.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	6,336	6,373	6,311	6,393	6,423	6,456	6,451	6,516	6,377	6,328	6,358	6,361	6,335
Percent of population .....	60.2	60.4	59.7	60.5	60.7	60.9	60.8	61.3	59.9	59.4	59.6	59.5	59.2
Employed .....	5,706	5,722	5,681	5,802	5,821	5,872	5,858	5,921	5,812	5,735	5,730	5,705	5,722
Employment-population ratio <sup>2</sup> .....	54.2	54.2	53.8	54.9	55.0	55.4	55.2	55.7	54.6	53.8	53.7	53.4	53.5
Unemployed .....	630	651	630	591	602	584	594	595	565	592	628	656	613
Unemployment rate .....	9.9	10.2	10.0	9.2	9.4	9.0	9.2	9.1	8.9	9.4	9.9	10.3	9.7

See footnotes at end of table.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. 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	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	937	956	967	928	842	898	879	830	802	758	773	779	807
Percent of population .....	43.0	44.0	44.6	42.8	38.5	41.7	40.8	38.6	37.4	35.4	36.1	36.5	37.9
Employed .....	624	645	670	680	606	645	652	586	550	517	489	554	550
Employment-population ratio <sup>2</sup> .....	28.6	29.7	30.9	31.3	27.7	30.0	30.3	27.3	25.6	24.1	22.8	25.9	25.8
Unemployed .....	313	311	297	248	236	253	227	244	252	241	284	225	257
Unemployment rate .....	33.4	32.5	30.7	26.7	28.0	28.2	25.8	29.4	31.4	31.8	36.7	28.9	31.8
Men .....	32.0	32.3	30.1	29.2	28.5	30.0	27.2	31.1	37.4	32.3	38.4	30.6	30.7
Women .....	34.9	32.7	31.4	24.0	27.5	26.2	24.3	27.6	25.3	31.2	35.0	26.9	33.1
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,936	13,977	14,019	14,080	14,119	14,159	14,198	14,238	14,277	14,317	14,356	14,396	14,435
Civilian labor force .....	9,339	9,424	9,495	9,440	9,400	9,565	9,618	9,669	9,651	9,665	9,707	9,643	9,557
Percent of population .....	67.0	67.4	67.7	67.0	66.6	67.6	67.7	67.9	67.6	67.5	67.6	67.0	66.2
Employed .....	8,595	8,672	8,691	8,769	8,666	8,831	8,850	8,927	8,967	8,899	8,951	8,808	8,783
Employment-population ratio <sup>2</sup> .....	61.7	62.0	62.0	62.3	61.4	62.4	62.3	62.7	62.8	62.2	62.3	61.2	60.8
Unemployed .....	744	752	804	671	734	734	768	742	684	767	757	835	774
Unemployment rate .....	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7	7.1	7.9	7.8	8.7	8.1

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

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional population.

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

**A-35. Employed civilians by selected social and economic categories, seasonally adjusted**

(In thousands)

Category	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTIC</b>													
Total .....	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898	117,711
Married men, spouse present .....	40,839	40,886	41,041	40,982	41,347	40,989	40,730	40,881	40,554	40,545	40,604	40,919	40,870
Married women, spouse present .....	29,544	29,767	29,695	29,897	29,704	29,618	29,742	30,046	29,856	29,909	29,949	29,780	29,772
Women who maintain families .....	6,354	6,351	6,349	6,215	6,378	6,291	6,325	6,400	6,467	6,380	6,365	6,382	6,342
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,678	1,687	1,677	1,634	1,578	1,620	1,621	1,728	1,685	1,628	1,666	1,808	1,743
Self-employed workers .....	1,406	1,373	1,369	1,354	1,375	1,457	1,429	1,502	1,507	1,377	1,357	1,275	1,330
Unpaid family workers .....	124	122	125	107	118	115	112	101	106	96	93	112	96
Nonagricultural industries:													
Wage and salary workers .....	105,504	105,960	105,643	105,747	106,117	106,029	105,938	106,176	105,985	105,885	105,691	105,800	105,337
Government .....	17,595	17,681	17,728	17,626	17,607	17,724	17,816	18,113	17,863	17,788	17,842	17,555	17,679
Private industries .....	87,909	88,279	87,915	88,121	88,510	88,306	88,122	88,063	88,121	88,097	87,849	88,246	87,658
Private households .....	987	1,051	1,077	1,035	1,021	1,003	957	941	1,056	989	1,033	1,074	1,005
Other industries .....	86,922	87,228	86,838	87,086	87,489	87,302	87,165	87,122	87,065	87,108	86,816	87,171	86,653
Self-employed workers .....	8,610	8,528	8,653	8,733	8,628	8,852	8,716	8,783	8,759	8,709	8,629	8,810	8,880
Unpaid family workers .....	280	264	251	256	313	261	258	254	226	269	229	235	242
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,767	4,803	4,802	4,983	4,887	5,004	4,871	4,831	5,013	4,870	5,036	5,365	5,462
Slack work .....	2,314	2,297	2,277	2,402	2,307	2,476	2,407	2,439	2,499	2,565	2,424	2,654	2,627
Could only find part-time work .....	2,082	2,162	2,106	2,255	2,211	2,127	2,138	2,052	2,224	2,070	2,123	2,462	2,403
Voluntary part time .....	15,368	15,254	15,388	14,931	15,381	15,464	15,193	15,592	15,125	15,311	15,377	15,283	15,105
Nonagricultural industries:													
Part time for economic reasons .....	4,526	4,552	4,554	4,729	4,703	4,747	4,630	4,666	4,734	4,710	4,780	5,093	5,182
Slack work .....	2,166	2,132	2,111	2,240	2,183	2,293	2,218	2,317	2,284	2,408	2,242	2,481	2,436
Could only find part-time work .....	2,021	2,097	2,051	2,172	2,173	2,050	2,096	2,004	2,141	2,048	2,069	2,386	2,333
Voluntary part time .....	14,936	14,805	14,983	14,515	14,924	14,975	14,804	15,064	14,627	14,922	14,899	14,858	14,688

<sup>1</sup> Excludes persons "with a job but not at work" during the survey

period for such reasons as vacation, illness, or industrial dispute.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-36. Employed civilians by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898	117,711
16 to 24 years .....	19,487	19,482	19,298	19,309	19,247	19,459	19,196	19,080	18,979	18,702	18,366	18,657	18,578
16 to 19 years .....	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376	6,268	6,038	5,815	6,144	6,071
16 to 17 years .....	2,645	2,598	2,518	2,501	2,513	2,557	2,460	2,386	2,300	2,166	2,085	2,277	2,194
18 to 19 years .....	4,130	4,152	4,161	4,132	4,072	4,164	4,086	3,992	3,946	3,878	3,703	3,866	3,866
20 to 24 years .....	12,724	12,722	12,612	12,678	12,670	12,739	12,646	12,704	12,711	12,664	12,551	12,513	12,508
25 years and over .....	98,122	98,345	98,594	98,547	98,722	98,803	98,836	99,285	99,458	99,312	99,415	99,234	99,155
25 to 54 years .....	83,316	83,594	83,680	83,690	83,856	83,938	83,969	84,344	84,452	84,423	84,447	84,290	84,317
55 years and over .....	14,818	14,784	14,849	14,805	14,867	14,870	14,856	14,971	14,934	14,902	15,008	15,040	14,817
Men, 16 years and over .....	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586	64,535	64,278	64,121	64,426	64,448
16 to 24 years .....	10,211	10,123	10,128	10,091	10,071	10,110	10,018	9,992	9,883	9,775	9,556	9,725	9,728
16 to 19 years .....	3,487	3,449	3,464	3,444	3,430	3,441	3,407	3,321	3,189	3,083	2,977	3,161	3,178
16 to 17 years .....	1,357	1,329	1,308	1,298	1,315	1,317	1,270	1,224	1,166	1,106	1,047	1,187	1,162
18 to 19 years .....	2,134	2,140	2,153	2,149	2,121	2,126	2,130	2,071	2,009	1,985	1,907	1,967	1,999
20 to 24 years .....	6,724	6,674	6,664	6,647	6,640	6,669	6,611	6,671	6,694	6,692	6,579	6,564	6,550
25 years and over .....	54,302	54,362	54,494	54,335	54,463	54,558	54,475	54,605	54,658	54,517	54,617	54,699	54,724
25 to 54 years .....	45,829	45,938	46,048	45,832	46,013	46,081	46,041	46,099	46,106	46,033	46,052	46,175	46,239
55 years and over .....	8,488	8,432	8,441	8,509	8,485	8,480	8,432	8,498	8,489	8,492	8,578	8,606	8,482
Women, 16 years and over .....	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764	53,854	53,674	53,537	53,472	53,263
16 to 24 years .....	9,276	9,359	9,170	9,218	9,176	9,349	9,178	9,088	9,095	8,927	8,810	8,932	8,850
16 to 19 years .....	3,276	3,311	3,222	3,187	3,146	3,279	3,144	3,056	3,078	2,955	2,838	2,983	2,892
16 to 17 years .....	1,288	1,269	1,210	1,203	1,198	1,240	1,190	1,162	1,134	1,060	1,038	1,090	1,032
18 to 19 years .....	1,996	2,012	2,008	1,983	1,951	2,038	1,956	1,921	1,937	1,893	1,796	1,899	1,867
20 to 24 years .....	6,000	6,048	5,948	6,030	6,029	6,070	6,034	6,032	6,017	5,972	5,972	5,949	5,958
25 years and over .....	43,820	43,983	44,100	44,212	44,259	44,245	44,361	44,679	44,800	44,796	44,798	44,535	44,431
25 to 54 years .....	37,487	37,656	37,632	37,859	37,844	37,857	37,928	38,245	38,346	38,389	38,395	38,115	38,078
55 years and over .....	6,330	6,352	6,408	6,296	6,382	6,390	6,424	6,472	6,444	6,410	6,430	6,435	6,336

**A-37. Unemployed persons by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447	6,814	7,003	7,069	7,073
16 to 24 years .....	2,428	2,472	2,428	2,299	2,294	2,274	2,425	2,349	2,171	2,316	2,387	2,454	2,493
16 to 19 years .....	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169	1,030	1,174	1,168	1,128	1,172
16 to 17 years .....	536	548	558	434	509	520	519	597	442	457	494	512	508
18 to 19 years .....	645	665	645	683	609	615	609	587	612	693	653	652	660
20 to 24 years .....	1,242	1,252	1,225	1,178	1,156	1,148	1,295	1,180	1,141	1,142	1,219	1,326	1,321
25 years and over .....	4,144	4,188	4,242	4,279	4,304	4,237	4,347	4,245	4,266	4,456	4,617	4,667	4,595
25 to 54 years .....	3,652	3,688	3,744	3,780	3,781	3,727	3,864	3,832	3,850	3,958	4,028	4,121	4,036
55 years and over .....	464	496	494	525	526	515	505	464	433	494	538	513	556
Men, 16 years and over .....	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679	3,599	3,804	3,863	3,943	3,918
16 to 24 years .....	1,349	1,380	1,361	1,267	1,226	1,236	1,343	1,261	1,233	1,279	1,253	1,326	1,330
16 to 19 years .....	661	690	665	614	601	592	622	632	580	656	644	634	629
16 to 17 years .....	308	312	319	214	259	267	281	318	228	249	287	274	257
18 to 19 years .....	353	382	346	397	336	336	341	320	350	387	351	379	371
20 to 24 years .....	688	690	696	653	625	644	721	629	653	623	609	692	701
25 years and over .....	2,214	2,258	2,238	2,373	2,313	2,291	2,387	2,358	2,343	2,499	2,616	2,642	2,606
25 to 54 years .....	1,919	1,967	1,917	2,079	2,018	1,997	2,099	2,089	2,066	2,173	2,234	2,274	2,257
55 years and over .....	280	303	314	313	308	300	310	296	275	321	336	342	360
Women, 16 years and over .....	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975	2,848	3,010	3,140	3,126	3,156
16 to 24 years .....	1,079	1,092	1,067	1,032	1,069	1,038	1,082	1,087	938	1,037	1,134	1,128	1,163
16 to 19 years .....	525	530	538	507	537	534	508	537	450	518	524	494	543
16 to 17 years .....	228	236	239	220	250	253	238	279	214	208	207	238	251
18 to 19 years .....	292	283	299	286	273	279	268	267	262	306	302	273	289
20 to 24 years .....	554	562	529	525	532	504	574	550	488	519	610	634	620
25 years and over .....	1,930	1,930	2,004	1,906	1,991	1,945	1,961	1,887	1,923	1,956	2,001	2,025	1,989
25 to 54 years .....	1,733	1,721	1,827	1,701	1,763	1,730	1,765	1,742	1,785	1,785	1,794	1,847	1,779
55 years and over .....	184	193	180	212	218	216	195	169	158	173	203	171	196

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-38. Unemployment rates by sex and age, seasonally adjusted**

(Civilian workers)

Sex and age	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2	5.5	5.6	5.7	5.7
16 to 24 years .....	11.1	11.3	11.2	10.6	10.7	10.5	11.2	11.0	10.3	11.0	11.5	11.6	11.8
16 to 19 years .....	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1	16.3	16.7	15.5	16.2
16 to 17 years .....	16.9	17.4	18.1	14.8	16.8	16.9	17.4	20.0	16.1	17.4	19.2	18.4	18.8
18 to 19 years .....	13.5	13.8	13.4	14.2	13.0	12.9	13.0	12.8	13.4	15.2	15.0	14.4	14.6
20 to 24 years .....	8.9	9.0	8.9	8.5	8.4	8.3	9.3	8.5	8.2	8.3	8.8	9.6	9.6
25 years and over .....	4.1	4.1	4.1	4.2	4.2	4.1	4.2	4.1	4.1	4.3	4.4	4.5	4.4
25 to 54 years .....	4.2	4.2	4.3	4.3	4.3	4.3	4.4	4.3	4.4	4.5	4.6	4.7	4.6
55 years and over .....	3.0	3.2	3.2	3.4	3.4	3.3	3.3	3.0	2.8	3.2	3.5	3.3	3.6
Men, 16 years and over .....	5.2	5.3	5.3	5.3	5.2	5.1	5.5	5.4	5.3	5.6	5.7	5.8	5.7
16 to 24 years .....	11.7	12.0	11.8	11.2	10.9	10.9	11.8	11.2	11.1	11.6	11.6	12.0	12.0
16 to 19 years .....	15.9	16.7	16.1	15.1	14.9	14.7	15.4	16.0	15.4	17.5	17.8	16.7	16.5
16 to 17 years .....	18.5	19.0	19.6	14.2	16.5	16.9	18.1	20.6	16.4	18.4	21.5	18.8	18.1
18 to 19 years .....	14.2	15.1	13.8	15.6	13.7	13.6	13.8	13.4	14.8	16.3	15.5	16.2	15.7
20 to 24 years .....	9.3	9.4	9.5	8.9	8.6	8.8	9.8	8.6	8.9	8.5	8.5	9.5	9.7
25 years and over .....	3.9	4.0	3.9	4.2	4.1	4.0	4.2	4.1	4.1	4.4	4.6	4.6	4.5
25 to 54 years .....	4.0	4.1	4.0	4.3	4.2	4.2	4.4	4.3	4.3	4.5	4.6	4.7	4.7
55 years and over .....	3.2	3.5	3.6	3.6	3.5	3.4	3.5	3.4	3.1	3.6	3.8	3.8	4.1
Women, 16 years and over .....	5.4	5.4	5.5	5.2	5.4	5.3	5.4	5.2	5.0	5.3	5.5	5.5	5.6
16 to 24 years .....	10.4	10.4	10.4	10.1	10.4	10.0	10.5	10.7	9.3	10.4	11.4	11.2	11.6
16 to 19 years .....	13.8	13.8	14.3	13.7	14.6	14.0	13.9	14.9	12.8	14.9	15.6	14.2	15.8
16 to 17 years .....	15.0	15.7	16.5	15.5	17.3	16.9	16.7	19.4	15.9	16.4	16.6	17.9	19.6
18 to 19 years .....	12.8	12.3	13.0	12.6	12.3	12.0	12.1	12.2	11.9	13.9	14.4	12.6	13.4
20 to 24 years .....	8.5	8.5	8.2	8.0	8.1	7.7	8.7	8.4	7.5	8.0	9.3	9.6	9.4
25 years and over .....	4.2	4.2	4.3	4.1	4.3	4.2	4.2	4.1	4.1	4.2	4.3	4.4	4.3
25 to 54 years .....	4.4	4.4	4.6	4.3	4.5	4.4	4.4	4.4	4.4	4.4	4.5	4.6	4.5
55 years and over .....	2.8	2.9	2.7	3.3	3.3	3.3	2.9	2.5	2.4	2.6	3.1	2.6	3.0

**A-39. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2	5.5	5.6	5.7	5.7
Men, 20 years and over .....	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7	4.7	4.9	5.0	5.1	5.1
Women, 20 years and over .....	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6	4.5	4.7	4.9	5.0	4.9
Both sexes, 16 to 19 years .....	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1	16.3	16.7	15.5	16.2
White .....	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6	4.5	4.6	4.8	4.8	4.9
Black and other .....	10.2	10.3	10.2	10.1	9.2	9.4	9.1	9.3	9.4	10.3	10.4	10.8	10.6
Black .....	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4	10.4	11.3	11.8	12.1	11.8
Hispanic origin .....	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7	7.1	7.9	7.8	8.7	8.1
Married men, spouse present .....	3.0	3.1	3.0	3.4	3.0	3.2	3.3	3.3	3.2	3.3	3.5	3.4	3.5
Married women, spouse present .....	3.9	3.8	3.9	3.7	3.8	3.6	3.5	3.5	3.7	3.5	3.9	4.0	3.9
Women who maintain families .....	7.8	8.2	8.1	7.5	7.5	8.4	7.5	7.4	8.0	8.5	8.5	8.9	8.5
Full-time workers .....	4.9	5.0	5.0	5.0	4.9	4.9	5.1	4.9	4.8	5.0	5.2	5.4	5.5
Part-time workers .....	7.1	7.4	7.5	7.0	7.4	7.2	7.1	7.4	7.6	8.1	7.9	7.1	6.8
Unemployed 15 weeks and over <sup>1</sup> .....	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.3
Labor force time lost <sup>2</sup> .....	5.9	5.9	6.0	6.0	5.9	5.9	6.2	6.0	5.9	6.0	6.3	6.4	6.6
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.3	5.4	5.4	5.5	5.5	5.5	5.7	5.5	5.3	5.5	5.7	5.8	5.9
Goods-producing industries .....	6.2	6.3	6.5	6.7	6.6	6.6	6.9	6.7	5.9	6.6	6.9	7.0	7.3
Mining .....	4.8	6.2	4.4	6.8	4.8	5.9	4.6	3.3	3.6	4.4	4.9	3.8	3.7
Construction .....	9.3	9.8	9.8	9.3	8.9	10.0	10.6	11.5	9.7	10.2	11.1	11.8	13.2
Manufacturing .....	5.4	5.4	5.6	5.9	5.9	5.5	5.9	5.4	4.9	5.7	5.8	5.7	5.7
Durable goods .....	5.2	5.4	5.4	5.8	5.5	5.3	5.7	5.5	4.9	5.6	5.9	6.0	5.8
Nondurable goods .....	5.6	5.3	5.9	5.9	6.4	5.9	6.3	5.2	5.0	5.7	5.6	5.3	5.6
Service-producing industries .....	4.9	5.0	4.9	5.0	5.0	5.0	5.1	5.0	5.0	5.0	5.2	5.3	5.3
Transportation and public utilities .....	3.9	3.6	3.4	4.3	4.0	3.4	4.3	3.2	3.0	3.7	4.1	3.9	4.1
Wholesale and retail trade .....	5.9	6.4	6.3	6.2	6.0	6.2	6.2	6.3	6.2	6.0	6.2	6.6	6.7
Finance and service industries .....	4.3	4.3	4.2	4.3	4.4	4.5	4.5	4.4	4.5	4.5	4.7	4.7	4.4
Government workers .....	2.7	2.7	2.6	2.4	2.5	2.3	2.1	2.5	2.9	2.8	2.8	2.9	2.8
Agricultural wage and salary workers .....	9.8	12.1	9.7	9.2	9.3	10.1	11.0	7.9	10.0	10.6	9.7	9.3	8.2

<sup>1</sup> Unemployment as a percent of the civilian labor force.

<sup>2</sup> Aggregate hours lost by the unemployed and persons on part time

for economic reasons as a percent of potentially available labor force hours.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-40. Unemployed persons by duration of unemployment, seasonally adjusted**

(Numbers in thousands)

Weeks of unemployment	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>DURATION</b>													
Less than 5 weeks .....	3,166	3,258	3,302	3,119	3,159	3,194	3,204	3,026	3,046	3,120	3,325	3,044	3,101
5 to 14 weeks .....	1,995	1,991	2,013	2,012	2,079	2,044	2,175	2,236	2,049	2,159	2,048	2,479	2,405
15 weeks and over .....	1,378	1,422	1,362	1,430	1,369	1,333	1,386	1,374	1,406	1,513	1,609	1,620	1,581
15 to 26 weeks .....	743	765	730	777	731	702	697	764	763	809	845	872	896
27 weeks and over .....	635	657	632	653	638	631	688	610	643	704	764	748	685
Average (mean) duration, in weeks .....	11.7	11.6	11.5	12.1	11.7	12.0	12.1	11.6	12.0	12.0	12.3	12.5	11.9
Median duration, in weeks .....	5.0	4.8	4.8	5.1	5.4	5.1	5.0	5.4	5.1	5.2	5.2	6.2	6.0
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	48.4	48.8	49.5	47.5	47.8	48.6	47.4	45.6	46.9	45.9	47.6	42.6	43.8
5 to 14 weeks .....	30.5	29.8	30.1	30.7	31.5	31.1	32.2	33.7	31.5	31.8	29.3	34.7	33.9
15 weeks and over .....	21.1	21.3	20.4	21.8	20.7	20.3	20.5	20.7	21.6	22.3	23.0	22.7	22.3
15 to 26 weeks .....	11.4	11.5	10.9	11.8	11.1	10.7	10.3	11.5	11.7	11.9	12.1	12.2	12.6
27 weeks and over .....	9.7	9.8	9.5	9.9	9.7	9.6	10.2	9.2	9.9	10.4	10.9	10.5	9.7

**A-41. Unemployed persons by reason for unemployment, seasonally adjusted**

(Numbers in thousands)

Reasons for unemployment	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	2,979	3,092	3,097	3,183	3,103	3,038	3,147	3,171	3,151	3,088	3,367	3,511	3,533
On layoff .....	780	969	957	1,033	964	941	999	979	918	960	973	1,127	1,020
Other job losers .....	2,199	2,123	2,140	2,150	2,139	2,097	2,148	2,192	2,233	2,128	2,394	2,384	2,513
Job leavers .....	994	1,049	1,055	1,016	1,006	1,014	1,179	1,014	995	1,027	984	934	970
Reentrants .....	1,890	1,845	1,853	1,730	1,805	1,859	1,780	1,820	1,789	1,960	1,879	1,985	1,904
New entrants .....	685	695	686	640	680	644	617	683	534	687	677	656	693
<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 .....	45.5	46.3	46.3	48.5	47.1	46.3	46.8	47.4	48.7	45.7	48.7	49.5	49.8
On layoff .....	11.9	14.5	14.3	15.7	14.6	14.4	14.9	14.6	14.2	14.2	14.1	15.9	14.4
Other job losers .....	33.6	31.8	32.0	32.7	32.4	32.0	31.9	32.8	34.5	31.5	34.7	33.6	35.4
Job leavers .....	15.2	15.7	15.8	15.5	15.3	15.5	17.5	15.2	15.4	15.2	14.3	13.2	13.7
Reentrants .....	28.9	27.6	27.7	26.3	27.4	28.4	26.5	27.2	27.7	29.0	27.2	28.0	26.8
New entrants .....	10.5	10.4	10.3	9.7	10.3	9.8	9.2	10.2	8.3	10.2	9.8	9.3	9.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.4	2.5	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.5	2.7	2.8	2.8
Job leavers .....	.8	.8	.8	.8	.8	.8	.9	.8	.8	.8	.8	.7	.8
Reentrants .....	1.5	1.5	1.5	1.4	1.4	1.5	1.4	1.5	1.4	1.6	1.5	1.6	1.5
New entrants .....	.6	.6	.6	.5	.5	.5	.5	.5	.4	.6	.5	.5	.6

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonfarm payrolls by major industry, 1938 to date**

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing							Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local	
Annual averages																
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	1,767	4,659	1,447	3,502	905	( <sup>1</sup> )	( <sup>1</sup> )	
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,841	4,909	1,485	3,665	996	( <sup>1</sup> )	( <sup>1</sup> )	
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,966	5,244	1,525	3,905	1,340	( <sup>1</sup> )	( <sup>1</sup> )	
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,912	5,206	1,509	4,066	2,213	( <sup>1</sup> )	( <sup>1</sup> )	
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,828	5,154	1,481	4,130	2,905	( <sup>1</sup> )	( <sup>1</sup> )	
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,851	5,208	1,461	4,145	2,928	( <sup>1</sup> )	( <sup>1</sup> )	
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,955	5,359	1,481	4,222	2,808	( <sup>1</sup> )	( <sup>1</sup> )	
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,298	6,077	1,675	4,697	2,254	( <sup>1</sup> )	( <sup>1</sup> )	
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	( <sup>1</sup> )	( <sup>1</sup> )	
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	( <sup>1</sup> )	( <sup>1</sup> )	
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	( <sup>1</sup> )	( <sup>1</sup> )	
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	( <sup>1</sup> )	( <sup>1</sup> )	
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	( <sup>1</sup> )	( <sup>1</sup> )	
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	( <sup>1</sup> )	( <sup>1</sup> )	
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	( <sup>1</sup> )	( <sup>1</sup> )	
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	( <sup>1</sup> )	( <sup>1</sup> )	
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,167	1,168	3,558	
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819	
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071	
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,765	2,191	1,415	4,232	
1959 <sup>2</sup>	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,092	8,035	2,549	7,087	2,233	1,484	4,366	
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,153	8,238	2,628	7,378	2,270	1,536	4,547	
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708	
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	2,754	7,982	2,340	1,668	4,881	
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,258	8,520	2,830	8,277	2,358	1,747	5,121	
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,347	8,812	2,911	8,660	2,348	1,856	5,392	
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	2,977	9,036	2,378	1,996	5,700	
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,608	9,637	3,058	9,498	2,564	2,141	6,080	
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,700	9,906	3,185	10,045	2,719	2,302	6,371	
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,791	10,308	3,337	10,567	2,737	2,442	6,660	
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,919	10,785	3,512	11,169	2,758	2,533	6,904	
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	4,006	11,034	3,645	11,548	2,731	2,664	7,158	
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,014	11,338	3,772	11,797	2,696	2,747	7,437	
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,127	11,822	3,908	12,276	2,684	2,859	7,790	
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,291	12,315	4,046	12,857	2,663	2,923	8,146	
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,447	12,539	4,148	13,441	2,724	3,039	8,407	
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,430	12,630	4,165	13,892	2,748	3,179	8,758	
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,562	13,193	4,271	14,551	2,733	3,273	8,865	
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,723	13,792	4,467	15,302	2,727	3,377	9,023	
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	4,724	16,252	2,753	3,474	9,446	
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,221	14,972	4,975	17,112	2,773	3,541	9,633	
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	2,866	3,610	9,765	
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,376	15,172	5,298	18,619	2,772	3,640	9,619	
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,296	15,161	5,341	19,036	2,739	3,640	9,458	
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,286	15,595	5,468	19,694	2,774	3,662	9,434	
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,574	16,526	5,689	20,797	2,807	3,734	9,687	
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,736	17,336	5,955	21,999	2,875	3,832	9,842	
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,774	17,909	6,283	23,053	2,899	3,893	9,901	
1987	102,200	85,190	24,708	717	4,967	19,024	77,492	5,372	5,865	18,462	6,547	24,235	2,943	3,967	10,100	
1988	105,536	88,150	25,173	713	5,110	19,350	80,363	5,527	6,055	19,077	6,649	25,669	2,971	4,076	10,339	
1989	108,413	90,644	25,326	700	5,200	19,426	83,087	5,648	6,271	19,580	6,724	27,096	2,988	4,175	10,606	
Monthly data, seasonally adjusted																
<b>1989:</b>																
October	108,980	91,096	25,283	710	5,239	19,334	83,697	5,671	6,313	19,665	6,756	27,408	2,986	4,202	10,696	
November	109,245	91,344	25,280	716	5,258	19,306	83,965	5,693	6,335	19,714	6,774	27,548	2,982	4,212	10,707	
December	109,383	91,456	25,218	718	5,216	19,284	84,165	5,776	6,344	19,710	6,785	27,623	2,977	4,206	10,744	
<b>1990:</b>																
January	109,654	91,656	25,188	723	5,294	19,171	84,466	5,790	6,356	19,807	6,794	27,721	3,000	4,225	10,773	
February	109,958	91,917	25,339	727	5,368	19,244	84,619	5,804	6,357	19,758	6,817	27,842	3,005	4,239	10,797	
March	110,122	91,963	25,259	729	5,313	19,217	84,863	5,808	6,361	19,764	6,821	27,950	3,089	4,249	10,821	
April	110,177	91,922	25,180	734	5,256	19,190	84,997	5,809	6,363	19,778	6,823	27,969	3,151	4,252	10,852	
May	110,617	92,120	25,191	738	5,286	19,167	85,426	5,833	6,369	19,795	6,838	28,094	3,346	4,262	10,889	
June	110,829	92,282	25,162	744	5,270	19,148	85,667	5,846	6,383	19,822	6,844	28,225	3,338	4,296	10,913	
July	110,740	92,300	25,105	745	5,229	19,131	85,635	5,841	6,374	19,851	6,842	28,287	3,164	4,298	10,978	
August	110,613	92,320	25,013	735	5,194	19,084	85,600	5,846	6,376	19,846	6,852	28,387	3,045	4,305	10,943	
September <sup>p</sup>	110,561	92,262	24,936	736	5,183	19,017	85,625	5,868	6,367	19,832	6,852	28,407	3,007	4,318	10,974	
October <sup>p</sup>	110,493	92,164	24,794	735	5,103	18,956	85,699	5,877	6,356	19,784	6,853	28,500	2,992	4,330	11,007	

<sup>1</sup> Not available.

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

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1989) and all seasonally adjusted data (beginning January 1986) are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Total</b> .....		109,195	109,719	110,304	110,858	111,235	-	-	-	-	-
<b>Total private</b> .....		91,583	91,606	93,147	92,834	92,669	74,320	74,351	75,580	75,293	75,138
<b>Mining</b> .....		718	719	748	746	745	514	515	540	539	539
Metal mining .....	10	58.6	58.9	61.1	61.0	-	46.5	46.7	48.2	47.8	-
Iron ores .....	101	8.0	8.0	6.8	6.8	-	6.6	6.7	5.2	5.0	-
Copper ores .....	102	14.0	14.1	15.3	15.3	-	11.2	11.4	12.5	12.5	-
Coal mining .....	12	151.8	151.4	156.5	155.6	-	122.5	122.1	126.4	125.7	-
Bituminous coal and lignite mining .....	122	141.9	141.4	145.8	144.9	-	114.5	114.0	117.8	117.0	-
Oil and gas extraction .....	13	391.7	393.1	414.4	413.3	415.1	256.5	258.4	276.2	277.1	-
Crude petroleum and natural gas .....	131	192.4	191.3	194.9	192.6	-	92.2	91.3	94.8	94.2	-
Oil and gas field services .....	138	194.7	197.4	215.8	217.0	-	160.8	163.8	178.5	180.1	-
Nonmetallic minerals, except fuels .....	14	115.9	115.1	116.2	115.8	-	88.9	88.1	88.7	88.2	-
Crushed and broken stone .....	142	42.7	42.5	43.0	42.8	-	33.8	33.6	33.5	33.3	-
Sand and gravel .....	144	37.9	37.3	37.1	37.1	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	16.3	16.4	16.5	16.3	-	-	-	-	-	-
<b>Construction</b> .....		5,499	5,491	5,537	5,452	5,348	4,346	4,334	4,357	4,279	4,177
General building contractors .....	15	1,392.0	1,387.6	1,381.6	1,357.8	1,332.0	1,026.0	1,019.4	1,014.3	991.0	-
Residential building construction .....	152	717.6	710.2	701.0	690.7	-	516.7	507.1	499.0	488.4	-
Operative builders .....	153	42.6	42.1	38.7	37.3	-	18.9	18.9	16.6	15.7	-
Nonresidential building construction .....	154	631.8	635.3	641.9	629.8	-	490.4	493.4	498.7	486.9	-
Heavy construction, except building .....	16	859.6	869.1	875.3	876.6	-	727.3	736.5	739.8	741.5	-
Highway and street construction .....	161	281.2	277.4	298.0	295.3	-	237.5	233.7	254.6	251.9	-
Heavy construction, except highway .....	162	578.4	591.7	577.3	581.3	-	489.8	502.8	485.2	489.6	-
Special trade contractors .....	17	3,246.9	3,233.9	3,279.7	3,218.0	-	2,592.2	2,578.5	2,603.3	2,546.2	-
Plumbing, heating, and air conditioning .....	171	666.4	668.9	667.3	659.0	-	495.2	496.1	493.8	486.5	-
Painting and paper hanging .....	172	188.7	186.1	192.0	182.5	-	159.8	157.0	160.7	153.5	-
Electrical work .....	173	566.0	567.0	583.1	577.0	-	441.5	441.9	456.2	450.3	-
Masonry, stonework, and plastering .....	174	538.6	532.5	554.1	543.1	-	466.0	461.3	478.8	467.7	-
Carpentry and floor work .....	175	216.6	213.4	192.9	185.3	-	172.8	167.8	146.7	139.5	-
Roofing, siding, and sheet metal work .....	176	228.9	229.2	230.6	226.6	-	185.7	185.8	186.7	182.6	-
<b>Manufacturing</b> .....		19,506	19,432	19,173	19,145	19,050	13,336	13,270	13,034	13,032	12,956
<b>Durable goods</b> .....		11,414	11,375	11,125	11,107	11,060	7,612	7,578	7,377	7,383	7,350
Lumber and wood products .....	24	764.2	759.5	756.9	749.6	737.9	633.4	628.5	624.6	618.8	606.6
Logging .....	241	91.7	91.5	92.2	91.6	-	76.4	76.3	77.1	76.4	-
Sawmills and planing mills .....	242	202.6	201.7	201.4	198.9	-	177.3	176.0	175.2	173.4	-
Sawmills and planing mills, general .....	2421	163.5	162.5	162.3	160.3	-	142.9	141.7	140.9	139.3	-
Hardwood dimension and flooring mills .....	2426	35.8	35.9	35.7	35.4	-	31.6	31.5	31.5	31.4	-
Millwork, plywood, and structural members .....	243	270.6	269.0	266.6	262.8	-	220.0	218.2	215.1	212.2	-
Millwork .....	2431	109.1	108.0	107.8	106.6	-	86.6	85.6	84.5	83.2	-
Wood kitchen cabinets .....	2434	72.6	72.8	73.3	73.2	-	57.8	58.0	58.3	58.9	-
Hardwood veneer and plywood .....	2435	24.1	24.1	23.6	23.2	-	20.9	20.8	20.4	20.1	-
Softwood veneer and plywood .....	2436	34.5	34.1	33.4	32.6	-	31.1	30.6	30.0	29.2	-
Wood containers .....	244	44.4	43.6	44.9	44.8	-	37.5	36.9	38.0	37.9	-
Wood buildings and mobile homes .....	245	67.0	65.8	65.7	65.5	-	50.7	49.6	49.7	49.6	-
Mobile homes .....	2451	44.5	43.9	45.3	45.7	-	36.4	35.6	36.8	37.2	-
Miscellaneous wood products .....	249	87.9	87.9	86.1	86.0	-	71.5	71.5	69.5	69.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	524.7	525.0	510.7	511.6	511.1	417.9	418.2	403.3	404.4	403.9
Household furniture .....	251	300.1	300.2	288.9	290.5	-	252.8	253.0	240.9	242.3	-
Wood household furniture .....	2511	133.4	132.0	127.4	127.2	-	116.4	115.1	109.3	109.2	-
Upholstered household furniture .....	2512	99.8	100.2	99.8	99.9	-	83.4	83.9	83.4	83.5	-
Metal household furniture .....	2514	22.2	23.2	20.4	21.8	-	17.3	18.3	15.8	17.0	-
Mattresses and bedsprings .....	2515	29.6	29.3	28.5	28.5	-	22.8	22.5	21.8	21.8	-
Office furniture .....	252	71.0	70.5	69.1	68.9	-	52.6	52.2	51.8	51.7	-
Public building and related furniture .....	253	33.1	32.8	31.2	31.4	-	26.1	25.9	24.1	24.3	-
Partitions and fixtures .....	254	83.1	84.2	84.4	84.2	-	60.8	61.7	61.2	61.3	-
Miscellaneous furniture and fixtures .....	259	37.4	37.3	37.1	36.6	-	25.6	25.4	25.3	24.8	-
Stone, clay, and glass products .....	32	575.3	573.8	561.3	558.4	552.5	450.4	449.0	438.2	435.6	430.8
Flat glass .....	321	16.7	16.6	16.4	16.5	-	13.4	13.2	12.9	13.0	-
Glass and glassware, pressed or blown .....	322	87.6	87.4	84.1	84.3	-	75.7	75.5	72.4	72.8	-
Glass containers .....	3221	43.1	43.2	41.9	41.7	-	39.3	39.2	37.9	37.8	-
Pressed and blown glass, nec .....	3229	44.5	44.2	42.2	42.6	-	36.4	36.3	34.5	35.0	-
Products of purchased glass .....	323	57.5	57.3	55.8	55.9	-	44.1	44.0	42.7	42.8	-
Cement, hydraulic .....	324	18.8	18.7	19.4	18.9	-	14.4	14.2	15.0	14.5	-
Structural clay products .....	325	37.5	37.5	36.7	36.4	-	29.0	29.0	28.5	27.9	-
Pottery and related products .....	326	40.3	40.5	38.6	38.7	-	32.1	32.4	30.5	30.6	-
Concrete, gypsum, and plaster products .....	327	219.3	218.3	213.5	212.0	-	168.9	168.2	164.3	163.0	-
Concrete block and brick .....	3271	20.4	20.0	19.6	19.4	-	13.2	13.1	12.9	12.7	-
Concrete products, nec .....	3272	74.6	74.8	71.4	71.3	-	56.9	57.1	54.0	54.1	-
Ready-mixed concrete .....	3273	105.2	104.3	103.8	102.7	-	84.0	83.2	83.0	82.0	-
Misc. nonmetallic mineral products .....	329	83.5	83.4	82.1	81.1	-	61.7	61.6	60.9	60.0	-
Abrasive products .....	3291	22.0	22.0	21.3	21.0	-	15.5	15.6	15.1	14.8	-
Asbestos products .....	3292	6.9	6.9	7.4	7.3	-	5.2	5.2	5.6	5.6	-
Mineral wool .....	3296	25.2	25.3	24.0	23.7	-	-	-	-	-	-
Primary metal industries .....	33	768.8	763.0	754.1	752.8	750.3	586.5	580.0	571.7	572.9	570.3
Blast furnaces and basic steel products .....	331	276.4	272.4	272.1	270.5	269.6	213.0	208.9	208.6	207.7	206.5
Blast furnaces and steel mills .....	3312	208.4	206.3	204.6	203.4	-	162.3	160.0	158.4	157.8	-
Steel pipe and tubes .....	3317	24.8	24.5	25.1	24.9	-	18.6	18.3	18.6	18.5	-
Iron and steel foundries .....	332	137.7	135.9	133.7	134.1	-	110.5	108.8	106.1	106.9	-
Gray and ductile iron foundries .....	3321	84.6	83.0	82.2	82.3	-	69.7	68.1	66.9	67.1	-
Malleable iron foundries .....	3322	9.0	8.8	8.8	8.7	-	6.9	6.7	6.5	6.4	-
Steel foundries, nec .....	3325	28.8	28.7	27.9	28.3	-	22.5	22.5	21.6	22.2	-
Primary nonferrous metals .....	333	45.3	44.9	46.1	45.8	-	33.4	33.1	33.8	33.8	-
Primary aluminum .....	3334	25.2	24.9	25.8	25.9	-	19.3	19.0	19.5	19.8	-
Nonferrous rolling and drawing .....	335	178.2	178.7	174.5	175.2	-	128.3	128.1	125.7	126.7	-
Copper rolling and drawing .....	3351	24.0	23.9	23.2	23.3	-	18.4	18.2	17.6	17.9	-
Aluminum sheet, plate, and foil .....	3353	27.8	28.4	28.6	28.8	-	18.7	19.0	19.3	19.5	-
Nonferrous wire drawing and insulating .....	3357	75.6	75.8	72.4	73.2	-	55.4	55.3	52.8	53.6	-
Nonferrous foundries (castings) .....	336	86.0	85.6	83.5	83.8	-	68.0	67.7	65.4	66.1	-
Aluminum foundries .....	3365	24.7	24.3	23.5	24.0	-	19.5	19.1	18.4	19.1	-
Fabricated metal products .....	34	1,445.0	1,440.9	1,413.7	1,417.0	1,410.5	1,069.7	1,066.8	1,042.1	1,045.7	1,042.1
Metal cans and shipping containers .....	341	53.2	52.3	52.3	51.7	-	46.0	45.3	44.9	44.4	-
Metal cans .....	3411	42.7	41.9	42.4	41.7	-	37.3	36.6	36.9	36.3	-
Cutlery, handtools, and hardware .....	342	130.7	131.2	126.9	127.2	-	96.4	97.0	92.8	93.0	-
Hand and edge tools, and blades and handsaws .....	3423.5	44.6	45.2	44.2	44.2	-	32.6	33.4	32.3	32.3	-
Hardware, nec .....	3429	74.3	74.1	70.7	71.2	-	55.5	55.4	52.3	52.6	-
Plumbing and heating, except electric .....	343	63.3	63.4	63.2	62.9	-	46.0	46.0	45.5	45.4	-
Plumbing fixture fittings and trim .....	3432	26.8	26.7	26.8	26.3	-	19.9	19.8	20.0	19.7	-
Heating equipment, except electric .....	3433	23.0	23.2	22.6	22.9	-	15.8	15.9	15.2	15.5	-
Fabricated structural metal products .....	344	434.8	433.7	429.9	428.9	-	311.1	309.8	305.6	304.7	-
Fabricated structural metal .....	3441	78.0	78.1	77.5	78.1	-	56.2	56.0	55.6	56.3	-
Metal doors, sash, and trim .....	3442	78.4	78.0	78.2	77.5	-	57.5	57.2	57.3	56.6	-
Fabricated plate work (boiler shops) .....	3443	108.9	108.9	109.6	109.5	-	73.2	73.2	73.4	73.4	-
Sheet metal work .....	3444	96.8	96.4	94.3	94.3	-	73.3	73.0	71.2	71.0	-
Architectural metal work .....	3446	29.8	29.6	28.6	28.3	-	21.7	21.4	20.2	19.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Screw machine products, bolts, etc .....	345	99.2	99.4	95.8	96.3	-	75.4	75.9	73.3	73.7	-
Screw machine products .....	3451	47.6	47.6	45.9	46.4	-	38.7	38.9	37.3	37.7	-
Bolts, nuts, rivets, and washers .....	3452	51.6	51.8	49.9	49.9	-	36.7	37.0	36.0	36.0	-
Metal forgings and stampings .....	346	231.0	229.6	224.4	227.0	-	183.2	182.0	177.6	180.7	-
Iron and steel forgings .....	3462	32.9	32.5	31.9	32.2	-	25.4	25.1	24.3	24.7	-
Automotive stampings .....	3465	105.4	104.9	101.1	103.5	-	87.9	87.3	84.3	86.8	-
Metal stampings, nec .....	3469	80.0	79.6	79.3	79.1	-	60.4	60.2	59.9	60.1	-
Metal services, nec .....	347	122.0	121.9	119.8	120.4	-	96.8	96.7	93.5	93.8	-
Plating and polishing .....	3471	78.3	78.3	76.4	76.7	-	62.7	62.8	59.9	60.0	-
Metal coating and allied services .....	3479	43.7	43.6	43.4	43.7	-	34.1	33.9	33.6	33.8	-
Ordnance and accessories, nec .....	348	73.5	72.4	67.5	67.5	-	44.1	44.1	42.2	42.3	-
Ammunition, except for small arms, nec .....	3483	42.8	42.2	38.5	38.4	-	22.6	22.9	21.5	21.4	-
Miscellaneous fabricated metal products .....	349	237.3	237.0	233.9	235.1	-	170.7	170.0	166.7	167.7	-
Valves and pipe fittings, nec .....	3494	29.4	29.2	29.2	28.9	-	19.0	18.7	18.9	18.9	-
Misc. fabricated wire products .....	3496	54.1	54.4	53.8	53.7	-	40.8	41.1	40.3	40.2	-
Industrial machinery and equipment .....	35	2,126.4	2,119.1	2,085.9	2,075.8	2,071.3	1,281.5	1,274.2	1,250.1	1,244.9	1,242.0
Engines and turbines .....	351	90.5	90.2	92.8	93.1	-	58.6	58.4	60.1	60.5	-
Turbines and turbine generator sets .....	3511	26.3	26.4	28.4	28.5	-	15.3	15.3	16.4	16.6	-
Internal combustion engines, nec .....	3519	64.2	63.8	64.4	64.6	-	43.3	43.1	43.7	43.9	-
Farm and garden machinery .....	352	103.1	104.3	107.7	106.6	-	74.0	75.5	77.2	76.5	-
Farm machinery and equipment .....	3523	78.1	77.9	82.3	81.6	-	54.8	54.8	58.8	58.4	-
Construction and related machinery .....	353	222.4	222.6	223.5	224.0	-	135.8	135.9	137.1	138.1	-
Construction machinery .....	3531	84.2	84.1	81.5	82.2	-	52.6	52.6	49.9	50.3	-
Mining machinery .....	3532	16.6	16.6	17.3	17.1	-	10.1	10.2	10.8	10.7	-
Oil and gas field machinery .....	3533	38.8	38.9	41.7	41.8	-	22.5	22.4	25.7	26.5	-
Conveyors and conveying equipment .....	3535	34.7	34.6	34.1	34.2	-	18.7	18.6	19.1	19.1	-
Industrial trucks and tractors .....	3537	28.2	28.4	28.6	28.3	-	19.3	19.5	19.2	19.0	-
Metalworking machinery .....	354	337.7	337.7	328.7	327.8	-	241.3	241.5	234.5	234.9	-
Machine tools, metal cutting types .....	3541	49.6	49.6	47.0	46.4	-	32.0	32.2	30.0	29.6	-
Machine tools, metal forming types .....	3542	18.5	18.8	18.3	18.2	-	11.9	11.9	11.4	11.3	-
Special dies, tools, jigs, and fixtures .....	3544	148.7	149.2	146.5	146.5	-	114.7	115.3	113.4	114.1	-
Machine tool accessories .....	3545	58.6	58.1	54.5	54.7	-	41.5	41.0	38.4	38.6	-
Power driven handtools .....	3546	21.5	21.0	21.2	21.2	-	14.9	14.6	14.7	14.8	-
Special industry machinery .....	355	161.1	160.3	156.8	157.5	-	97.2	96.2	92.3	92.7	-
Textile machinery .....	3552	19.1	19.1	18.7	18.5	-	12.6	12.6	12.3	12.1	-
Printing trades machinery .....	3555	25.4	24.7	23.4	23.5	-	14.7	14.0	12.9	13.0	-
Food products machinery .....	3556	23.8	23.9	23.4	23.6	-	14.4	14.4	14.0	14.1	-
General industrial machinery .....	356	242.9	237.6	242.8	241.7	-	156.8	151.4	154.7	154.1	-
Pumps and pumping equipment .....	3561	28.7	28.6	29.0	29.0	-	16.6	16.5	16.6	16.6	-
Ball and roller bearings .....	3562	43.8	38.3	43.2	43.4	-	34.2	28.6	33.3	33.6	-
Air and gas compressors .....	3563	24.0	24.2	25.0	24.6	-	13.5	13.6	14.0	13.7	-
Blowers and fans .....	3564	31.7	31.6	32.0	31.7	-	21.4	21.4	21.6	21.3	-
Speed changers, drives, and gears .....	3566	16.2	16.3	16.4	16.4	-	11.5	11.6	11.5	11.6	-
Power transmission equipment, nec .....	3568	19.1	18.9	18.6	18.5	-	13.1	12.9	12.5	12.3	-
Computer and office equipment .....	357	460.2	460.5	442.7	441.1	-	146.5	146.6	139.9	139.2	-
Electronic computers .....	3571	290.7	289.8	273.3	272.9	-	77.1	76.7	69.6	69.3	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	70.5	71.2	67.6	67.0	-	22.6	23.3	21.3	21.2	-
Refrigeration and service machinery .....	358	190.8	188.7	179.9	174.1	-	137.9	135.6	126.8	121.9	-
Refrigeration and heating equipment .....	3585	135.3	133.3	126.8	121.2	-	101.2	99.0	92.4	87.6	-
Misc. industrial and commercial machinery .....	359	317.7	317.2	311.0	309.9	-	233.4	233.1	227.5	227.0	-
Carburetors, pistons, rings, valves .....	3592	24.2	23.9	23.3	23.3	-	19.0	18.7	18.9	18.9	-
Scales, balances, and industrial machinery, nec .....	3596,9	242.7	242.8	239.2	238.5	-	185.4	185.4	180.8	180.5	-
Electronic and other electrical equipment .....	36	1,747.4	1,746.3	1,686.5	1,677.8	1,673.8	1,106.2	1,105.2	1,061.8	1,058.7	1,057.4
Electric distribution equipment .....	361	99.5	98.8	94.9	95.0	-	70.4	69.9	66.4	66.2	-
Transformers, except electronic .....	3612	50.2	49.7	47.6	47.6	-	35.8	35.5	33.8	33.6	-
Switchgear and switchboard apparatus .....	3613	49.3	49.1	47.3	47.4	-	34.6	34.4	32.6	32.6	-
Electrical industrial apparatus .....	362	175.3	176.1	170.2	169.0	-	125.1	125.1	119.2	118.4	-
Motors and generators .....	3621	88.3	88.7	84.6	83.8	-	69.5	69.6	65.6	65.1	-
Relays and industrial controls .....	3625	67.3	67.6	65.9	65.4	-	42.0	41.9	39.9	39.7	-
Household appliances .....	363	135.3	133.4	128.5	127.4	-	108.6	107.4	102.6	101.8	-
Household refrigerators and freezers .....	3632	28.9	28.1	28.5	28.0	-	23.7	23.1	23.4	22.9	-
Household laundry equipment .....	3633	21.4	21.0	21.1	20.7	-	17.2	16.9	16.6	16.1	-
Electric housewares and fans .....	3634	38.0	38.0	35.2	35.2	-	29.9	30.0	27.0	27.2	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Electronic and other electrical equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	194.5	194.0	186.8	187.1	-	140.6	140.7	134.5	134.9	-
Electric lamps .....	3641	25.3	25.3	24.6	24.9	-	21.5	21.5	20.8	21.1	-
Current-carrying wiring devices .....	3643	74.9	74.7	72.9	72.4	-	48.6	48.8	47.7	47.4	-
Noncurrent-carrying wiring devices .....	3644	16.2	16.3	15.5	15.6	-	12.1	12.2	11.2	11.2	-
Residential lighting fixtures .....	3645	26.4	26.4	24.3	25.1	-	19.8	19.8	18.0	18.6	-
Household audio and video equipment .....	365	89.8	91.3	86.7	87.0	-	63.7	65.2	59.9	59.7	-
Household audio and video equipment .....	3651	67.7	68.8	64.6	65.0	-	46.4	47.4	42.6	42.5	-
Communications equipment .....	366	269.6	269.7	258.1	255.1	-	135.8	135.3	129.3	128.8	-
Telephone and telegraph apparatus .....	3661	139.1	139.4	131.2	129.0	-	78.2	77.4	70.3	69.5	-
Electronic components and accessories .....	367	613.3	612.5	595.3	590.7	-	343.9	343.6	336.1	334.2	-
Electron tubes .....	3671	35.3	35.4	33.7	33.7	-	23.4	23.5	22.2	22.2	-
Semiconductors and related devices .....	3674	250.0	249.3	244.3	241.7	-	95.3	95.1	95.0	94.4	-
Electronic components, nec .....	3679	150.6	150.9	144.5	142.9	-	94.5	95.0	90.4	89.3	-
Misc. electrical equipment and supplies .....	369	170.1	170.5	166.0	166.5	-	118.1	118.0	113.8	114.7	-
Storage batteries .....	3691	29.8	30.1	29.7	29.9	-	22.9	23.3	22.8	23.0	-
Engine electrical equipment .....	3694	71.0	70.8	67.9	68.1	-	54.0	53.6	51.4	51.7	-
Transportation equipment .....	37	2,045.8	2,032.3	1,974.7	1,984.7	1,974.1	1,270.5	1,258.9	1,212.7	1,227.3	1,221.1
Motor vehicles and equipment .....	371	850.4	836.4	799.0	812.0	807.5	655.3	642.1	606.0	620.2	617.5
Motor vehicles and car bodies .....	3711	344.5	335.7	305.7	313.1	-	255.0	246.2	219.9	227.4	-
Truck and bus bodies .....	3713	42.3	41.4	41.9	42.2	-	32.8	32.4	32.6	32.9	-
Motor vehicle parts and accessories .....	3714	413.8	410.5	403.2	410.5	-	329.1	326.2	316.6	325.0	-
Truck trailers .....	3715	29.7	28.9	28.2	28.0	-	23.4	22.8	22.0	21.8	-
Aircraft and parts .....	372	717.7	717.8	703.7	704.3	-	346.8	346.2	339.3	341.0	-
Aircraft .....	3721	387.5	386.3	376.2	374.0	-	170.5	167.8	162.6	160.6	-
Aircraft engines and engine parts .....	3724	155.7	155.7	153.9	155.9	-	77.7	78.0	77.2	79.6	-
Aircraft parts and equipment, nec .....	3728	174.5	175.8	173.6	174.4	-	98.6	100.4	99.5	100.8	-
Ship and boat building and repairing .....	373	190.9	191.8	189.7	189.3	-	142.2	143.8	143.7	144.0	-
Ship building and repairing .....	3731	124.9	126.8	132.1	133.1	-	88.3	90.6	96.7	97.9	-
Boat building and repairing .....	3732	66.0	65.0	57.6	56.2	-	53.9	53.2	47.0	46.1	-
Railroad equipment .....	374	34.5	34.7	34.8	35.0	-	25.8	26.0	26.1	25.8	-
Guided missiles, space vehicles, and parts .....	376	192.6	191.8	187.2	185.1	-	60.4	60.4	57.0	57.0	-
Guided missiles and space vehicles .....	3761	136.5	136.0	135.3	134.1	-	39.1	39.1	37.2	37.6	-
Miscellaneous transportation equipment .....	379	46.9	46.8	46.7	45.7	-	30.8	31.0	30.9	30.0	-
Travel trailers and campers .....	3792	17.4	17.7	18.6	18.1	-	13.6	14.0	14.6	14.0	-
Instruments and related products .....	38	1,022.9	1,020.5	993.2	989.2	987.8	508.5	507.8	490.9	490.4	490.6
Search and navigation equipment .....	381	296.6	294.4	279.2	276.9	-	99.6	99.4	91.1	90.3	-
Measuring and controlling devices .....	382	329.8	329.8	319.0	317.7	-	186.1	186.0	177.8	177.4	-
Environmental controls .....	3822	50.7	50.5	47.8	47.5	-	34.0	34.0	32.5	32.3	-
Process control instruments .....	3823	65.4	65.7	65.9	65.5	-	35.1	35.4	34.0	34.3	-
Instruments to measure electricity .....	3825	100.1	99.3	94.6	93.6	-	50.4	50.0	47.9	47.5	-
Medical instruments and supplies .....	384	240.2	239.7	243.6	244.0	-	139.9	139.8	142.9	144.0	-
Surgical and medical instruments .....	3841	99.0	98.8	101.7	102.0	-	57.2	57.0	59.3	60.0	-
Surgical appliances and supplies .....	3842	90.3	90.1	92.5	92.8	-	56.5	56.5	58.0	58.5	-
Ophthalmic goods .....	385	39.8	39.6	39.0	38.5	-	27.7	27.7	26.8	26.5	-
Photographic equipment and supplies .....	386	104.9	105.4	101.3	100.9	-	46.7	46.4	43.8	43.5	-
Watches, clocks, watchcases, and parts .....	387	11.6	11.6	11.1	11.2	-	8.5	8.5	8.5	8.7	-
Miscellaneous manufacturing industries .....	39	393.3	394.6	387.7	390.4	391.0	287.5	288.9	281.9	284.5	284.7
Jewelry, silverware, and plated ware .....	391	55.2	56.4	53.6	54.3	-	39.2	40.2	37.9	38.4	-
Jewelry, precious metal .....	3911	40.2	41.3	38.9	39.6	-	28.4	29.3	27.3	27.8	-
Musical instruments .....	393	12.5	12.3	11.8	11.9	-	10.3	10.1	9.7	9.7	-
Toys and sporting goods .....	394	106.7	107.0	105.1	106.6	-	77.8	78.3	76.9	79.0	-
Dolls, games, toys, and children's vehicles .....	3942.4	48.1	48.5	45.4	47.0	-	34.3	34.8	32.5	34.4	-
Sporting and athletic goods, nec .....	3949	58.6	58.5	59.7	59.6	-	43.5	43.5	44.4	44.6	-
Pens, pencils, office, and art supplies .....	395	35.6	35.4	34.3	34.1	-	24.7	24.7	24.0	23.7	-
Costume jewelry and notions .....	396	38.7	39.3	38.8	39.0	-	31.1	31.3	29.0	29.0	-
Costume jewelry .....	3961	25.1	25.4	25.5	25.7	-	20.2	20.3	18.8	18.8	-
Miscellaneous manufactures .....	399	144.6	144.2	144.1	144.5	-	104.4	104.3	104.4	104.7	-
Signs and advertising specialties .....	3993	57.7	58.1	57.6	57.3	-	39.9	40.3	40.5	40.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Nondurable goods</b> .....		8,092	8,057	8,048	8,038	7,990	5,724	5,692	5,657	5,649	5,606
Food and kindred products .....	20	1,733.7	1,697.0	1,730.7	1,734.2	1,701.3	1,260.3	1,229.8	1,263.3	1,266.0	1,236.1
Meat products .....	201	415.3	417.4	421.3	422.1	-	352.7	354.6	358.7	360.4	-
Meat packing plants .....	2011	139.6	140.8	139.6	140.8	-	117.2	118.1	117.6	119.3	-
Sausages and other prepared meats .....	2013	84.8	84.7	86.1	85.3	-	62.8	62.6	64.7	64.2	-
Poultry slaughtering and processing .....	2015	190.9	191.9	195.6	196.0	-	172.7	173.9	176.4	176.9	-
Dairy products .....	202	157.3	155.8	156.8	153.7	-	96.0	94.9	96.6	93.9	-
Cheese, natural and processed .....	2022	42.4	42.4	42.3	41.4	-	32.8	32.8	32.7	31.9	-
Fluid milk .....	2026	75.0	74.6	74.3	73.9	-	37.6	37.3	37.1	36.9	-
Preserved fruits and vegetables .....	203	315.1	271.2	313.8	313.5	-	269.0	227.7	271.8	270.4	-
Canned specialties .....	2032	26.5	25.8	24.7	25.7	-	20.0	19.4	19.8	20.9	-
Canned fruits and vegetables .....	2033	139.0	100.3	140.1	139.0	-	123.2	86.2	126.2	125.0	-
Frozen fruits and vegetables .....	2037	61.7	60.1	61.5	61.3	-	55.7	54.1	54.7	53.6	-
Grain mill products .....	204	126.5	127.7	127.7	129.7	-	88.3	89.2	88.7	90.4	-
Flour and other grain mill products .....	2041	21.4	21.6	22.5	23.1	-	14.4	14.6	14.2	14.8	-
Prepared feeds, nec .....	2048	44.0	44.5	43.6	43.9	-	27.6	28.0	27.6	27.9	-
Bakery products .....	205	215.5	215.6	209.2	211.7	-	134.7	135.3	131.9	133.7	-
Bread, cake, and related products .....	2051	156.6	156.3	151.7	152.2	-	89.3	89.5	87.6	87.7	-
Cookies, crackers, and frozen bakery products, except bread .....	2052.3	58.9	59.3	57.5	59.5	-	45.4	45.8	44.3	46.0	-
Sugar and confectionery products .....	206	106.9	118.8	105.9	111.9	-	85.0	96.5	83.0	89.0	-
Raw cane sugar .....	2061	6.7	7.9	5.6	5.9	-	4.8	5.9	4.1	4.3	-
Cane sugar refining .....	2062	5.3	4.7	5.4	5.4	-	4.0	3.5	4.1	4.0	-
Beet sugar .....	2063	10.3	15.8	7.7	10.8	-	8.7	14.1	6.1	9.1	-
Candy and other confectionery products .....	2064	53.8	59.5	55.9	58.0	-	45.4	50.8	46.2	48.5	-
Fats and oils .....	207	30.3	31.1	29.4	29.8	-	22.1	22.7	20.8	20.9	-
Beverages .....	208	193.8	188.3	188.6	188.3	-	83.0	80.2	79.0	79.1	-
Malt beverages .....	2082	41.2	40.4	40.5	40.4	-	25.4	24.8	24.2	23.9	-
Bottled and canned soft drinks .....	2086	107.2	105.4	106.8	105.3	-	35.0	34.1	35.2	34.0	-
Misc. food and kindred products .....	209	173.0	171.1	178.0	173.5	-	129.5	128.7	132.8	128.2	-
Tobacco products .....	21	49.9	50.3	47.7	49.0	48.6	37.9	38.4	35.1	36.6	36.1
Cigarettes .....	211	34.2	34.0	34.3	34.1	-	25.4	25.3	25.3	25.2	-
Textile mill products .....	22	724.0	724.0	703.2	700.2	694.1	625.1	624.5	604.1	601.2	594.6
Broadwoven fabric mills, cotton .....	221	95.4	95.6	90.2	89.6	-	85.9	86.3	80.5	79.8	-
Broadwoven fabric mills, synthetics .....	222	84.4	84.1	81.7	81.8	-	74.6	74.3	71.6	71.6	-
Broadwoven fabric mills, wool .....	223	19.0	18.8	18.0	17.9	-	15.3	15.1	14.6	14.5	-
Narrow fabric mills .....	224	25.0	25.1	24.0	24.3	-	21.3	21.3	20.4	20.6	-
Knitting mills .....	225	217.0	216.1	209.2	206.9	-	190.3	189.3	182.8	180.7	-
Women's hosiery, except socks .....	2251	32.5	32.5	32.9	32.2	-	29.0	29.0	29.3	28.8	-
Hosiery, nec .....	2252	40.5	40.3	38.8	38.1	-	36.7	36.6	34.6	33.9	-
Knit outerwear mills .....	2253	67.3	67.2	64.7	64.0	-	59.6	59.4	56.8	56.0	-
Knit underwear mills .....	2254	29.2	29.1	26.8	26.5	-	24.6	24.5	22.8	22.6	-
Weft knit fabric mills .....	2257	28.1	27.8	27.1	27.0	-	24.5	24.2	23.8	23.7	-
Textile finishing, except wool .....	226	61.7	62.1	60.7	60.7	-	50.3	50.4	49.2	49.4	-
Finishing plants, cotton .....	2261	25.3	25.8	25.5	25.5	-	20.5	20.7	20.4	20.5	-
Finishing plants, synthetics .....	2262	23.6	23.6	23.1	23.1	-	18.8	18.9	18.6	18.6	-
Carpets and rugs .....	227	63.9	64.1	65.9	66.1	-	51.9	52.1	54.1	54.6	-
Yarn and thread mills .....	228	105.6	105.7	102.2	101.7	-	95.0	95.0	91.6	90.8	-
Yarn spinning mills .....	2281	83.9	83.9	81.3	81.3	-	75.7	75.6	73.1	72.8	-
Throwing and winding mills .....	2282	15.1	15.2	14.6	14.2	-	13.4	13.5	12.9	12.5	-
Miscellaneous textile goods .....	229	52.0	52.4	51.3	51.2	-	40.5	40.7	39.3	39.2	-
Apparel and other textile products .....	23	1,074.7	1,073.8	1,025.8	1,029.7	1,027.2	906.5	906.1	859.4	862.9	861.4
Men's and boys' suits and coats .....	231	52.9	52.5	48.9	48.6	-	45.0	44.5	41.3	41.0	-
Men's and boys' furnishings .....	232	286.7	286.6	265.8	266.6	-	247.9	248.1	227.5	228.4	-
Men's and boys' shirts .....	2321	68.5	68.0	62.2	61.0	-	58.4	58.1	52.7	51.6	-
Men's and boys' trousers and slacks .....	2325	88.4	88.3	80.5	82.4	-	77.5	77.7	69.5	71.4	-
Men's and boys' work clothing .....	2326	46.5	46.6	44.6	44.3	-	40.7	40.7	38.6	38.3	-
Women's and misses' outerwear .....	233	339.6	336.5	328.2	330.2	-	284.3	281.6	275.3	276.7	-
Women's and misses' blouses and shirts .....	2331	42.7	42.1	39.6	39.5	-	35.4	34.8	32.5	32.4	-
Women's, juniors', and misses' dresses .....	2335	74.5	73.3	71.8	72.2	-	61.5	60.6	59.3	59.4	-
Women's and misses' suits and coats .....	2337	39.9	39.0	42.0	42.3	-	33.3	32.6	35.3	35.6	-
Women's and misses' outerwear, nec .....	2339	182.5	182.1	174.8	176.2	-	154.1	153.6	148.2	149.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	65.9	65.5	61.0	61.5	-	54.6	54.3	49.8	50.3	-
Women's and children's underwear .....	2341	52.6	52.0	48.9	49.2	-	45.4	45.0	41.8	42.0	-
Brassieres, girdles, and allied garments .....	2342	13.3	13.5	12.1	12.3	-	9.2	9.3	8.0	8.3	-
Girl's and children's outerwear .....	236	58.6	59.9	56.6	56.1	-	49.1	50.4	47.4	47.1	-
Girl's and children's dresses and blouses .....	2361	22.5	22.9	22.2	22.1	-	19.6	19.9	19.3	19.2	-
Misc. apparel and accessories .....	238	46.0	46.4	43.9	43.6	-	38.1	38.6	36.0	35.7	-
Misc. fabricated textile products .....	239	207.1	208.4	203.2	204.7	-	173.0	173.9	167.1	168.5	-
Curtains and draperies .....	2391	25.4	25.8	24.4	24.4	-	21.2	21.5	20.1	20.1	-
House furnishings, nec .....	2392	55.9	57.6	54.7	55.2	-	47.1	48.8	45.5	45.9	-
Automotive and apparel trimmings .....	2396	47.7	46.6	48.0	48.8	-	40.0	38.6	39.2	40.2	-
Paper and allied products .....	26	698.1	697.6	706.0	701.2	698.7	523.1	523.3	530.4	527.0	526.8
Paper mills .....	262	177.5	176.7	180.3	177.7	-	134.4	133.4	136.3	134.2	-
Paperboard mills .....	263	51.9	51.3	52.2	51.3	-	39.9	39.2	40.0	39.4	-
Paperboard containers and boxes .....	265	210.4	211.2	210.5	210.4	-	162.7	163.5	162.3	162.6	-
Corrugated and solid fiber boxes .....	2653	117.9	118.5	118.3	118.0	-	88.6	89.1	88.6	88.6	-
Sanitary food containers .....	2656	14.5	14.4	15.0	15.1	-	12.1	12.0	12.6	12.7	-
Folding paperboard boxes .....	2657	51.2	51.3	50.9	51.1	-	41.1	41.3	40.8	41.0	-
Misc. converted paper products .....	267	241.7	241.9	245.6	244.6	-	173.1	174.3	178.2	177.5	-
Paper, coated and laminated, nec .....	2672	43.6	43.9	45.0	44.6	-	19.6	20.2	22.0	21.5	-
Bags: plastics, laminated, and coated .....	2673	33.5	33.6	34.5	34.4	-	25.4	25.5	25.9	26.1	-
Envelopes .....	2677	26.9	27.0	26.5	26.7	-	20.8	21.0	20.5	20.8	-
Printing and publishing .....	27	1,558.9	1,563.9	1,577.7	1,572.2	1,576.8	861.2	863.7	873.9	868.9	869.7
Newspapers .....	271	471.0	472.7	478.8	478.4	-	164.2	165.1	165.8	166.1	-
Periodicals .....	272	128.7	129.4	131.1	131.3	-	46.0	46.7	48.4	48.8	-
Books .....	273	116.7	115.9	119.2	117.4	-	61.2	59.5	63.9	61.9	-
Book publishing .....	2731	82.8	82.1	84.3	82.9	-	34.2	32.8	35.6	33.8	-
Book printing .....	2732	33.9	33.8	34.9	34.5	-	27.0	26.7	28.3	28.1	-
Miscellaneous publishing .....	274	82.2	82.2	82.5	82.0	-	40.1	40.1	41.8	41.7	-
Commercial printing .....	275	545.5	549.3	550.4	548.4	-	396.3	399.2	400.4	398.7	-
Commercial printing, lithographic .....	2752	359.7	361.6	365.7	363.7	-	260.4	262.0	266.6	264.3	-
Commercial printing, nec .....	2759	170.1	172.0	169.5	169.2	-	123.4	124.7	121.7	122.0	-
Manifold business forms .....	276	49.8	49.6	48.4	48.2	-	34.0	34.1	33.5	33.5	-
Blankbooks and bookbinding .....	278	76.0	75.7	75.7	74.7	-	58.9	58.4	58.6	57.5	-
Printing trade services .....	279	63.9	64.0	64.0	64.0	-	47.4	47.4	46.6	46.7	-
Chemicals and allied products .....	28	1,076.2	1,074.0	1,094.1	1,089.8	1,085.6	605.8	603.1	602.8	599.3	598.1
Industrial inorganic chemicals .....	281	132.8	132.8	136.0	134.5	-	69.5	69.5	68.3	68.0	-
Industrial inorganic chemicals, nec .....	2819	89.6	89.6	91.2	90.3	-	47.8	47.6	47.5	47.3	-
Plastics materials and synthetics .....	282	184.3	184.5	185.5	183.7	-	120.2	120.3	119.0	117.2	-
Plastics materials and resins .....	2821	89.0	89.0	89.3	88.1	-	52.3	52.2	52.4	51.7	-
Organic fibers, noncellulosic .....	2824	66.3	66.6	66.0	65.5	-	47.4	47.6	45.6	44.8	-
Drugs .....	283	233.4	233.2	240.6	240.4	-	102.5	103.3	107.0	106.4	-
Pharmaceutical preparations .....	2834	194.1	194.0	199.4	199.2	-	85.6	86.3	90.2	89.6	-
Soap, cleaners, and toilet goods .....	284	161.2	158.5	161.1	161.3	-	102.1	99.2	99.4	99.6	-
Soap and other detergents .....	2841	43.0	43.3	44.0	43.8	-	27.1	27.3	28.5	28.3	-
Polishing, sanitation, and finishing preparations .....	2842,3	43.3	43.5	45.2	45.2	-	24.0	24.0	24.4	24.5	-
Toilet preparations .....	2844	74.9	71.7	71.9	72.3	-	51.0	47.9	46.5	46.8	-
Paints and allied products .....	285	63.1	62.8	64.3	63.6	-	31.8	31.7	32.8	32.3	-
Industrial organic chemicals .....	286	150.1	150.6	153.7	153.2	-	88.2	87.4	85.2	84.4	-
Cyclic crudes and intermediates .....	2865	28.5	28.9	29.4	29.4	-	17.6	17.4	17.8	17.7	-
Industrial organic chemicals, nec .....	2869	117.1	117.2	120.0	119.6	-	67.5	66.9	64.5	63.8	-
Agricultural chemicals .....	287	51.8	51.9	52.6	52.7	-	32.0	32.0	32.2	32.1	-
Miscellaneous chemical products .....	289	99.5	99.7	100.3	100.4	-	59.5	59.7	58.9	59.3	-
Petroleum and coal products .....	29	159.4	159.1	164.4	162.8	162.2	105.0	104.7	108.2	106.9	106.6
Petroleum refining .....	291	118.3	118.3	121.7	120.3	-	75.4	75.4	77.6	76.4	-
Asphalt paving and roofing materials .....	295	29.3	29.0	30.5	30.3	-	23.0	22.7	23.6	23.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	880.1	880.9	871.6	872.4	871.4	685.2	685.2	674.8	676.7	675.7
Tires and inner tubes .....	301	84.2	83.7	85.4	86.2	-	63.5	62.9	62.5	63.4	-
Rubber and plastics footwear .....	302	11.4	11.5	11.0	11.0	-	9.4	9.5	8.9	8.9	-
Hose, belting, gaskets, and packing .....	305	58.3	58.4	58.2	57.7	-	42.5	42.7	42.0	41.9	-
Rubber and plastics hose and belting .....	3052	25.5	25.6	24.7	24.2	-	19.0	19.1	18.3	18.0	-
Fabricated rubber products, nec .....	306	108.0	107.6	104.3	104.4	-	81.6	81.4	78.6	78.8	-
Miscellaneous plastics products, nec .....	308	618.2	619.7	612.7	613.1	-	488.2	488.7	482.8	483.7	-
Leather and leather products .....	31	136.7	136.4	127.1	126.3	124.0	113.5	113.2	104.6	103.4	101.2
Leather tanning and finishing .....	311	14.9	15.1	14.3	14.3	-	12.4	12.6	11.8	11.8	-
Footwear, except rubber .....	314	75.8	75.2	71.5	71.1	-	64.8	64.2	60.5	59.9	-
Men's footwear, except athletic .....	3143	32.7	32.6	30.8	30.5	-	26.8	26.8	24.9	24.8	-
Women's footwear, except athletic .....	3144	27.4	27.1	26.5	26.2	-	24.4	24.0	23.1	22.4	-
Luggage .....	316	11.3	11.4	10.6	10.3	-	8.3	8.3	7.4	7.1	-
Handbags and personal leather goods .....	317	16.9	16.8	13.5	13.6	-	13.5	13.5	10.8	10.8	-
<b>Transportation and public utilities .....</b>		<b>5,700</b>	<b>5,720</b>	<b>5,851</b>	<b>5,914</b>	<b>5,928</b>	<b>4,746</b>	<b>4,768</b>	<b>4,853</b>	<b>4,915</b>	<b>4,931</b>
Transportation .....		3,525	3,549	3,616	3,693	3,707	-	-	-	-	-
Railroad transportation .....	40	296.0	295.0	286.9	285.3	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	252.2	250.5	243.4	242.1	-	-	-	-	-	-
Local and interurban passenger transit .....	41	343.2	350.5	278.7	359.0	-	313.9	320.6	251.4	329.4	-
Local and suburban transportation .....	411	129.9	130.5	136.4	137.7	-	115.6	116.3	123.9	125.0	-
Taxicabs .....	412	33.0	33.3	32.3	32.8	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	29.1	29.4	18.1	18.2	-	26.3	26.1	15.9	15.9	-
School buses .....	415	121.8	127.4	62.5	139.0	-	-	-	-	-	-
Trucking and warehousing .....	42	1,638.1	1,644.1	1,678.4	1,683.6	-	1,431.6	1,437.8	1,462.1	1,467.3	-
Trucking and courier services, except air .....	421	1,515.7	1,515.7	1,556.1	1,556.3	-	1,329.8	1,329.7	1,361.1	1,362.0	-
Public warehousing and storage .....	422	118.8	124.7	118.6	123.6	-	98.7	104.9	97.8	102.1	-
Water transportation .....	44	178.9	175.5	178.9	176.7	-	-	-	-	-	-
Water transportation of freight, nec .....	444	14.4	14.1	13.8	13.8	-	-	-	-	-	-
Water transportation services .....	449	115.9	114.0	112.0	111.9	-	103.5	101.6	99.1	100.9	-
Transportation by air .....	45	711.7	723.8	809.4	806.3	-	-	-	-	-	-
Air transportation, scheduled .....	451	587.5	599.8	672.0	669.8	-	-	-	-	-	-
Airports, flying fields, and services .....	458	97.0	96.9	105.9	106.1	-	-	-	-	-	-
Pipelines, except natural gas .....	46	19.1	19.1	20.5	19.8	-	13.8	13.7	15.0	14.5	-
Transportation services .....	47	338.4	340.7	362.8	362.4	-	-	-	-	-	-
Freight transportation arrangement .....	473	127.7	128.9	133.0	133.4	-	102.4	103.6	107.9	108.4	-
Communications and public utilities .....		2,175	2,171	2,235	2,221	2,221	-	-	-	-	-
Communications .....	48	1,237.3	1,237.1	1,278.9	1,275.8	-	924.7	926.6	953.1	948.5	-
Telephone communications .....	481	847.2	845.6	881.5	878.7	-	607.2	608.5	631.6	627.2	-
Radio and television broadcasting .....	483	233.4	233.2	234.7	234.4	-	192.9	192.4	193.9	193.7	-
Radio broadcasting stations .....	4832	120.6	120.7	121.3	121.0	-	-	-	-	-	-
Television broadcasting stations .....	4833	112.8	112.5	113.4	113.4	-	-	-	-	-	-
Cable and other pay television services .....	484	119.2	120.8	127.9	127.9	-	100.6	102.0	106.4	106.4	-
Electric, gas, and sanitary services .....	49	937.3	934.0	956.1	945.5	-	741.1	738.5	759.6	747.8	-
Electric services .....	491	442.1	441.7	447.2	441.9	-	338.2	338.4	346.7	341.4	-
Gas production and distribution .....	492	164.9	164.8	170.4	167.6	-	129.4	129.2	133.8	130.8	-
Combination utility services .....	493	192.5	191.8	195.6	193.6	-	156.4	155.1	158.2	155.5	-
Sanitary services .....	495	108.6	106.6	112.6	112.5	-	94.4	93.1	97.1	96.9	-
<b>Wholesale trade .....</b>		<b>6,315</b>	<b>6,333</b>	<b>6,409</b>	<b>6,379</b>	<b>6,374</b>	<b>5,086</b>	<b>5,099</b>	<b>5,153</b>	<b>5,121</b>	<b>5,118</b>
Durable goods .....	50	3,738	3,746	3,785	3,760	3,754	2,987	2,993	3,013	2,986	-
Motor vehicles, parts, and supplies .....	501	452.9	452.1	453.3	449.7	-	366.2	365.6	366.1	362.8	-
Automobiles and other motor vehicles .....	5012	122.5	121.8	120.8	120.6	-	-	-	-	-	-
Motor vehicle supplies and new parts .....	5013	261.2	261.2	262.0	260.0	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Furniture and home furnishings .....	502	155.6	156.3	152.6	152.0	-	125.9	126.4	123.4	122.3	-
Furniture .....	5021	71.8	72.2	69.2	68.7	-	-	-	-	-	-
Home furnishings .....	5023	83.8	84.1	83.4	83.3	-	-	-	-	-	-
Lumber and other construction materials .....	503	238.7	239.9	246.6	243.7	-	195.5	196.2	201.2	198.4	-
Lumber, plywood, and millwork .....	5031	122.4	123.2	127.3	125.3	-	-	-	-	-	-
Construction materials, nec .....	5039	49.3	49.8	50.7	50.5	-	-	-	-	-	-
Professional and commercial equipment .....	504	788.7	791.2	788.6	785.2	-	639.5	640.6	635.7	632.4	-
Computers, peripherals and software .....	5045	311.8	312.5	302.2	301.4	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	145.0	144.6	142.4	141.8	-	115.0	114.7	113.0	112.3	-
Electrical goods .....	506	525.7	527.7	542.3	540.4	-	398.6	400.2	408.8	405.6	-
Electrical apparatus and equipment .....	5063	202.5	203.3	210.8	209.8	-	-	-	-	-	-
Electrical appliances, television and radio sets .....	5064	69.3	69.4	68.9	69.4	-	-	-	-	-	-
Electronic parts and equipment .....	5065	253.9	255.0	262.6	261.2	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	287.6	286.7	285.8	283.0	-	233.4	232.6	230.5	228.1	-
Hardware .....	5072	98.1	97.6	97.2	96.3	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	120.4	119.9	118.5	117.8	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	836.6	839.1	867.9	861.8	-	666.0	668.4	690.9	683.9	-
Construction and mining machinery .....	5082	86.5	86.6	88.4	87.2	-	-	-	-	-	-
Farm and garden machinery .....	5083	118.0	118.2	123.9	122.7	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	356.0	357.3	366.6	365.1	-	-	-	-	-	-
Industrial supplies .....	5085	148.5	149.1	154.4	153.4	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	307.6	308.1	305.7	302.2	-	247.1	248.6	243.6	240.3	-
Scrap and waste materials .....	5093	112.9	112.8	114.5	113.1	-	-	-	-	-	-
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,577</b>	<b>2,587</b>	<b>2,624</b>	<b>2,619</b>	<b>2,620</b>	<b>2,099</b>	<b>2,106</b>	<b>2,140</b>	<b>2,135</b>	<b>-</b>
Paper and paper products .....	511	229.5	231.1	233.5	231.4	-	184.4	185.2	187.9	186.2	-
Drugs, proprietaries, and sundries .....	512	186.0	186.9	189.6	188.5	-	155.7	156.7	159.3	158.5	-
Apparel, piece goods, and notions .....	513	210.7	212.2	217.9	218.0	-	164.8	165.8	172.5	172.4	-
Groceries and related products .....	514	848.1	845.5	862.1	862.9	-	715.8	713.1	726.7	726.2	-
Groceries, general line .....	5141	270.2	270.7	276.2	277.5	-	-	-	-	-	-
Meats and meat products .....	5147	63.4	62.9	63.6	62.9	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	103.6	101.4	108.0	110.1	-	-	-	-	-	-
Chemicals and allied products .....	516	128.9	127.7	131.1	130.3	-	91.5	91.0	93.5	92.6	-
Petroleum and petroleum products .....	517	212.4	212.5	214.2	213.5	-	167.1	167.1	170.0	169.7	-
Petroleum bulk stations and terminals .....	5171	93.1	92.9	95.7	95.3	-	-	-	-	-	-
Petroleum products, nec .....	5172	119.3	119.6	118.5	118.2	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	150.4	150.4	157.2	155.2	-	123.3	122.7	129.5	127.5	-
Beer and ale .....	5181	96.5	95.7	101.1	99.4	-	-	-	-	-	-
Wine and distilled beverages .....	5182	53.9	54.7	56.1	55.8	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	478.5	484.1	493.2	493.3	-	386.6	390.8	398.9	398.7	-
Farm supplies .....	5191	158.2	160.4	166.0	165.9	-	-	-	-	-	-
<b>Retail trade .....</b>	<b>52-59</b>	<b>19,681</b>	<b>19,688</b>	<b>19,965</b>	<b>19,872</b>	<b>19,804</b>	<b>17,440</b>	<b>17,451</b>	<b>17,696</b>	<b>17,596</b>	<b>17,527</b>
Building materials and garden supplies .....	52	793.2	793.3	810.2	790.3	-	659.3	659.6	673.9	653.8	-
Lumber and other building materials .....	521	448.0	445.5	452.1	439.5	-	379.9	377.6	381.8	369.5	-
Hardware stores .....	525	164.4	165.7	171.6	168.7	-	135.7	137.0	141.8	138.8	-
General merchandise stores .....	53	2,484.8	2,535.6	2,438.0	2,434.2	2,478.4	2,320.7	2,373.2	2,283.4	2,279.4	-
Department stores .....	531	2,057.2	2,099.7	2,020.7	2,023.3	-	1,934.5	1,978.5	1,907.9	1,910.5	-
Variety stores .....	533	217.4	220.2	209.5	205.5	-	199.8	202.8	191.8	187.8	-
Miscellaneous general merchandise stores .....	539	210.2	215.7	207.8	205.4	-	186.4	191.9	183.7	181.1	-
Food stores .....	54	3,204.2	3,236.9	3,304.7	3,292.5	3,304.1	2,947.8	2,978.9	3,041.0	3,027.4	-
Grocery stores .....	541	2,843.2	2,869.1	2,931.5	2,918.6	-	2,629.7	2,654.8	2,713.5	2,699.2	-
Meat and fish markets .....	542	55.4	55.3	55.3	55.1	-	-	-	-	-	-
Dairy products stores .....	545	28.6	28.0	26.1	25.5	-	-	-	-	-	-
Retail bakeries .....	546	174.1	177.3	177.8	179.2	-	156.2	158.9	158.4	159.6	-
Automotive dealers and service stations .....	55	2,124.1	2,123.6	2,160.8	2,152.4	2,137.0	1,775.6	1,773.3	1,802.7	1,792.8	-
New and used car dealers .....	551	959.0	959.2	959.0	963.6	-	798.7	797.8	796.9	800.3	-
Auto and home supply stores .....	553	351.2	352.7	365.5	364.0	-	282.9	283.6	293.6	291.9	-
Gasoline service stations .....	554	643.7	643.5	650.1	642.8	-	557.5	557.7	562.7	555.4	-
Automotive dealers, nec .....	559	11.5	11.7	15.2	15.1	-	9.6	9.6	12.5	12.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>b</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>b</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,174.6	1,183.6	1,131.9	1,113.8	-	984.7	994.7	946.2	929.6	-
Men's and boys' clothing stores .....	561	105.9	108.4	100.2	98.1	-	84.5	86.7	80.2	78.3	-
Women's clothing stores .....	562	415.1	416.7	384.4	386.2	-	345.8	348.1	318.9	320.3	-
Family clothing stores .....	565	274.6	276.2	272.6	260.2	-	237.2	239.4	235.0	224.5	-
Shoe stores .....	566	227.5	228.3	225.2	221.0	-	188.8	189.7	186.0	182.0	-
Furniture and home furnishings stores .....	57	828.1	835.2	826.7	821.3	-	679.1	686.0	676.2	671.5	-
Furniture and home furnishings stores .....	571	470.2	474.7	472.0	467.4	-	382.4	386.4	384.3	380.3	-
Furniture stores .....	5712	287.6	288.6	287.9	285.6	-	-	-	-	-	-
Household appliance stores .....	572	85.0	84.6	76.7	76.3	-	70.6	70.8	63.1	62.5	-
Radio, television, and computer stores .....	573	272.9	275.9	278.0	277.6	-	226.1	228.8	228.8	228.7	-
Radio, television, and electronic stores .....	5731	120.2	122.1	123.5	123.0	-	101.4	102.8	103.8	103.6	-
Record and prerecorded tape stores .....	5735	56.2	56.9	58.9	58.8	-	48.0	48.6	49.5	49.5	-
Eating and drinking places .....	58	6,619.2	6,481.4	6,805.2	6,768.3	6,619.4	6,015.2	5,883.5	6,188.9	6,144.8	-
Miscellaneous retail establishments .....	59	2,453.2	2,498.8	2,487.3	2,498.7	-	2,057.6	2,101.6	2,084.1	2,096.2	-
Drug stores and proprietary stores .....	591	605.6	613.7	614.4	614.6	-	512.3	520.2	517.5	517.9	-
Liquor stores .....	592	121.8	122.4	123.7	123.1	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	867.1	888.4	882.3	888.9	-	723.4	743.7	734.4	742.2	-
Sporting goods and bicycle shops .....	5941	160.3	163.9	166.8	167.5	-	-	-	-	-	-
Book stores .....	5942	92.0	90.3	92.7	100.9	-	-	-	-	-	-
Stationery stores .....	5943	82.4	82.7	81.2	81.3	-	-	-	-	-	-
Jewelry stores .....	5944	154.4	156.8	153.7	154.0	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	185.4	188.0	190.8	185.4	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	61.9	63.3	62.6	64.0	-	-	-	-	-	-
Nonstore retailers .....	596	285.0	290.6	267.1	268.9	-	253.4	259.0	235.7	237.6	-
Catalog and mail-order houses .....	5961	146.8	152.4	134.4	138.0	-	-	-	-	-	-
Merchandising machine operators .....	5962	86.2	86.0	82.4	82.5	-	-	-	-	-	-
Fuel dealers .....	598	109.9	112.4	111.0	111.3	-	91.0	93.5	92.1	92.0	-
Retail stores, nec .....	599	399.7	406.7	417.7	420.9	-	326.3	332.1	344.0	346.7	-
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		6,764	6,737	6,935	6,862	6,834	4,907	4,884	5,053	4,984	4,956
Finance .....		3,311	3,306	3,372	3,343	3,334	-	-	-	-	-
Depository institutions .....	60	2,292.6	2,288.6	2,323.7	2,299.8	-	1,663.0	1,659.0	1,690.9	1,667.7	-
Commercial banks .....	602	1,557.3	1,552.8	1,575.5	1,558.4	-	1,106.8	1,102.7	1,124.0	1,107.7	-
State commercial banks .....	6022	667.4	666.0	677.7	669.1	-	-	-	-	-	-
Savings institutions .....	603	485.6	484.0	471.1	464.0	-	-	-	-	-	-
Federal savings institutions .....	6035	242.6	241.4	237.7	234.2	-	-	-	-	-	-
Savings institutions, except federal .....	6036	243.0	242.6	233.4	229.8	-	-	-	-	-	-
Credit unions .....	606	131.3	131.8	136.9	136.4	-	105.0	105.7	110.1	109.2	-
Nondepository institutions .....	61	365.3	364.5	375.4	373.4	-	262.8	262.5	272.7	271.1	-
Personal credit institutions .....	614	129.2	128.8	131.2	131.5	-	97.6	97.0	98.2	98.3	-
Business credit institutions .....	615	78.1	78.5	82.8	82.4	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	148.3	147.5	152.1	150.4	-	-	-	-	-	-
Security and commodity brokers .....	62	426.9	425.3	428.1	424.8	-	-	-	-	-	-
Security brokers and dealers .....	621	329.6	328.0	323.1	320.6	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges .....	622,3	25.7	25.7	25.8	25.4	-	-	-	-	-	-
Security and commodity services .....	628	71.6	71.6	79.2	78.8	-	47.8	47.2	49.9	49.6	-
Holding and other investment offices .....	67	226.0	227.4	244.6	245.4	-	-	-	-	-	-
Insurance .....	63,64	2,105	2,104	2,157	2,144	2,150	-	-	-	-	-
Insurance carriers .....	63	1,451.3	1,450.3	1,491.4	1,482.3	-	966.9	966.8	1,003.4	998.3	-
Life insurance .....	631	556.1	554.6	562.1	558.7	-	337.1	336.6	343.6	340.8	-
Medical service and health insurance .....	632	231.4	232.0	248.1	247.6	-	185.9	187.4	201.1	200.5	-
Fire, marine, and casualty insurance .....	633	548.9	548.3	561.4	557.8	-	355.4	354.0	365.8	365.7	-
Title insurance .....	636	62.7	63.2	66.3	64.9	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	653.8	654.1	665.8	662.0	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate .....	65	1,348	1,327	1,406	1,375	1,350	-	-	-	-	-
Real estate operators and lessors .....	651	563.9	555.4	605.4	595.4	-	-	-	-	-	
Real estate agents and managers .....	653	586.5	576.8	595.9	580.2	-	-	-	-	-	
Subdividers and developers .....	655	166.4	163.0	171.7	166.0	-	-	-	-	-	
<b>Services .....</b>		<b>27,400</b>	<b>27,486</b>	<b>28,529</b>	<b>28,464</b>	<b>28,586</b>	<b>23,945</b>	<b>24,030</b>	<b>24,894</b>	<b>24,827</b>	<b>24,934</b>
Hotels and other lodging places .....	70	1,646.7	1,593.2	1,754.9	1,665.7	-	-	-	-	-	
Hotels and motels .....	701	1,596.6	1,547.9	1,649.2	1,609.6	-	1,419.8	1,376.2	1,466.8	1,428.5	
Personal services .....	72	1,061.9	1,068.8	1,069.3	1,072.7	-	-	-	-	-	
Laundry, cleaning, and garment services .....	721	419.3	421.2	428.7	427.2	-	372.8	374.7	381.2	379.3	
Photographic studios, portrait .....	722	69.6	74.4	69.9	72.8	-	-	-	-	-	
Beauty shops .....	723	367.6	369.0	373.6	374.8	-	327.8	329.5	334.7	335.9	
Funeral service and crematories .....	726	81.1	81.2	85.4	85.6	-	-	-	-	-	
Miscellaneous personal services .....	729	99.8	98.4	88.1	88.7	-	84.4	84.5	76.1	76.1	
Business services .....	73	5,036.0	5,026.7	5,107.7	5,123.2	5,110.9	4,439.4	4,427.7	4,482.7	4,495.7	
Advertising .....	731	237.7	237.6	240.3	240.1	-	177.1	176.5	171.9	171.3	
Advertising agencies .....	7311	172.8	172.5	173.0	172.9	-	-	-	-	-	
Credit reporting and collection .....	732	103.4	103.4	106.2	105.3	-	-	-	-	-	
Mailing, reproduction, and stenographic services .....	733	231.1	235.0	255.7	256.7	-	-	-	-	-	
Services to buildings .....	734	802.3	799.7	799.0	792.7	-	731.2	728.0	724.8	718.0	
Personnel supply services .....	736	1,483.5	1,457.2	1,453.8	1,468.6	-	-	-	-	-	
Employment agencies .....	7361	238.1	235.8	236.1	239.1	-	-	-	-	-	
Help supply services .....	7363	1,245.4	1,221.4	1,217.7	1,229.5	-	1,209.7	1,185.9	1,178.6	1,190.8	
Computer and data processing services .....	737	755.3	764.0	807.9	808.2	-	585.9	593.1	630.4	631.0	
Prepackaged software .....	7372	102.6	104.3	117.4	116.7	-	-	-	-	-	
Data processing and preparation .....	7374	203.9	205.8	206.3	207.3	-	-	-	-	-	
Miscellaneous business services .....	738	1,212.1	1,219.2	1,222.9	1,231.1	-	1,073.1	1,080.5	1,083.0	1,089.3	
Detective and armored car services .....	7381	446.7	449.5	450.1	455.8	-	418.9	421.7	422.4	427.6	
Photofinishing laboratories .....	7384	85.8	87.6	81.3	86.1	-	-	-	-	-	
Auto repair, services, and parking .....	75	896.4	895.8	935.8	935.1	-	741.0	741.4	773.8	771.8	
Automotive rentals, without drivers .....	751	180.7	181.0	197.5	198.3	-	-	-	-	-	
Automotive repair shops .....	753	516.8	515.1	538.5	537.5	-	423.8	422.8	442.0	440.6	
Miscellaneous repair services .....	76	379.9	382.6	391.2	392.0	-	312.7	315.3	321.7	321.7	
Electrical repair shops .....	762	121.3	121.4	133.2	133.0	-	-	-	-	-	
Motion pictures .....	78	377.0	378.9	417.8	393.5	-	318.0	316.6	355.8	330.6	
Motion picture production and services .....	781	141.7	144.5	162.1	155.5	-	116.6	116.6	134.2	127.3	
Motion picture theaters .....	783	109.5	105.2	120.6	107.0	-	-	-	-	-	
Amusement and recreation services .....	79	1,100.2	1,010.3	1,244.7	1,136.8	-	973.3	888.3	1,098.7	997.8	
Misc. amusement and recreation services .....	799	762.4	665.4	895.2	789.6	-	673.7	584.2	794.9	694.5	
Health services .....	80	7,646.7	7,685.3	8,215.9	8,233.9	8,286.1	6,795.9	6,829.4	7,303.7	7,318.7	
Offices and clinics of medical doctors .....	801	1,309.6	1,318.5	1,435.1	1,440.8	-	1,080.1	1,087.0	1,186.1	1,189.4	
Offices and clinics of dentists .....	802	507.7	508.7	528.0	526.8	-	444.1	445.0	462.7	461.5	
Nursing and personal care facilities .....	805	1,385.0	1,388.8	1,475.3	1,477.5	-	1,252.2	1,254.8	1,332.5	1,333.6	
Skilled nursing care facilities .....	8051	955.6	958.5	1,016.8	1,018.1	-	-	-	-	-	
Nursing and personal care, nec .....	8059	232.9	233.0	248.5	249.3	-	-	-	-	-	
Hospitals .....	806	3,510.1	3,522.7	3,716.8	3,723.4	-	3,211.2	3,222.4	3,403.8	3,411.4	
General medical and surgical hospitals .....	8062	3,244.0	3,255.6	3,437.6	3,444.3	-	-	-	-	-	
Psychiatric hospitals .....	8063	98.9	99.4	100.7	100.6	-	-	-	-	-	
Specialty hospitals, excluding psychiatric .....	8069	167.2	167.7	178.5	178.5	-	-	-	-	-	
Medical and dental laboratories .....	807	165.2	167.2	181.8	182.0	-	-	-	-	-	
Home health care services .....	808	254.0	258.4	309.0	313.2	-	234.2	238.4	285.1	288.8	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry—Continued**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Services—Continued</b>											
Legal services .....	81	894.0	901.0	948.2	929.6	-	737.6	743.4	783.3	764.5	-
Educational services .....	82	1,648.2	1,802.9	1,462.2	1,672.3	-	-	-	-	-	-
Elementary and secondary schools .....	821	446.5	462.0	413.1	453.1	-	-	-	-	-	-
Colleges and universities .....	822	997.6	1,130.6	839.0	1,012.5	-	-	-	-	-	-
Vocational schools .....	824	96.0	98.9	88.5	91.3	-	-	-	-	-	-
Social services .....	83	1,723.4	1,750.3	1,816.3	1,847.5	-	-	-	-	-	-
Individual and family services .....	832	431.3	436.9	460.3	454.1	-	-	-	-	-	-
Job training and related services .....	833	237.0	238.1	258.0	236.6	-	-	-	-	-	-
Residential care .....	836	433.2	436.9	485.8	484.5	-	-	-	-	-	-
Museums and botanical and zoological gardens .....	84	63.0	62.6	67.5	65.1	-	-	-	-	-	-
Membership organizations .....	86	1,804.1	1,809.1	1,875.9	1,830.3	-	-	-	-	-	-
Business associations .....	861	101.2	101.1	103.3	101.7	-	-	-	-	-	-
Labor organizations .....	863	133.7	133.9	133.2	137.1	-	-	-	-	-	-
Civic and social associations .....	864	399.0	405.3	449.7	406.1	-	-	-	-	-	-
Engineering and management services .....	87	2,383.4	2,388.9	2,456.6	2,424.0	-	1,824.6	1,830.4	1,873.2	1,840.0	-
Engineering and architectural services .....	871	780.2	779.2	809.9	793.2	-	641.9	640.1	666.0	650.4	-
Accounting, auditing, and bookkeeping .....	872	517.7	524.5	526.2	522.0	-	388.1	394.3	390.9	385.6	-
Research and testing services .....	873	527.7	529.3	552.1	540.5	-	389.9	391.1	400.7	390.9	-
Commercial physical research .....	8731	222.1	223.2	229.6	227.5	-	-	-	-	-	-
Noncommercial research organizations .....	8733	143.5	141.9	150.7	145.0	-	-	-	-	-	-
Management and public relations .....	874	557.8	555.9	568.4	568.3	-	404.7	404.9	415.6	413.1	-
Services, nec .....	89	39.6	40.4	39.2	38.8	-	31.1	32.5	31.0	30.7	-
<b>Government</b> .....		17,612	18,113	17,157	18,024	18,566	-	-	-	-	-
<b>Federal Government<sup>4</sup></b> .....		2,978	2,969	3,060	2,995	2,975	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		2,918.3	2,909.7	2,999.0	-	-	-	-	-	-	-
Department of Defense .....		975.0	975.9	952.9	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		822.7	821.2	820.7	-	-	-	-	-	-	-
Other executive agencies .....		1,120.6	1,112.6	1,225.4	-	-	-	-	-	-	-
Legislative .....		37.6	37.6	38.2	-	-	-	-	-	-	-
Judicial .....		21.7	21.6	23.1	-	-	-	-	-	-	-
<b>Federal Government, by industry</b>											
Manufacturing activities .....		112.2	112.2	108.1	107.1	-	-	-	-	-	-
Ship building and repairing .....	3731	69.6	69.7	66.5	65.9	-	-	-	-	-	-
Transportation and public utilities, except Postal Service .....		37.7	37.8	38.6	39.3	-	-	-	-	-	-
Services .....		397.3	394.7	396.3	395.0	-	-	-	-	-	-
Hospitals .....	806	226.3	226.0	228.9	228.3	-	-	-	-	-	-
State government .....		4,149	4,301	4,073	4,253	4,430	-	-	-	-	-
Hospitals .....	806	449.8	450.9	454.8	453.3	-	-	-	-	-	-
Education .....	82	1,610.2	1,780.7	1,430.5	1,638.3	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		1,567.8	1,552.6	1,643.9	1,626.9	-	-	-	-	-	-
Local government .....		10,485	10,843	10,024	10,776	11,161	-	-	-	-	-
Transportation and public utilities .....		490.4	486.3	495.8	491.0	-	-	-	-	-	-
Hospitals .....	806	647.0	649.6	678.4	679.5	-	-	-	-	-	-
Education .....	82	5,716.0	6,129.8	4,928.4	5,896.5	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		3,279.0	3,246.9	3,566.6	3,379.6	-	-	-	-	-	-

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

<sup>2</sup> Data relate to line-haul railroads with operating revenues of \$50,000,000 or more.

<sup>3</sup> Data for nonoffice sales agents are excluded from the nonsupervisory count for all series in this division.

<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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

**B-3. Women employees on nonfarm payrolls by major industry and manufacturing group**

(In thousands)

Industry	July 1989	Aug. 1989	June 1990	July 1990	Aug. 1990
<b>Total</b> .....	50,223	50,308	52,716	51,748	51,746
<b>Total private</b> .....	41,753	41,873	42,887	42,735	42,881
<b>Goods-producing</b> .....	7,032	7,121	7,008	6,931	7,006
<b>Mining</b> .....	97	97	100	101	101
<b>Construction</b> .....	563	566	573	576	576
<b>Manufacturing</b> .....	6,372	6,458	6,335	6,254	6,329
<b>Durable goods</b> .....	3,035	3,056	3,013	2,970	2,976
Lumber and wood products .....	123	123	123	122	121
Furniture and fixtures .....	162	162	161	156	159
Stone, clay, and glass products .....	111	112	110	108	109
Primary metal industries .....	104	105	104	103	103
Fabricated metal products .....	320	322	316	311	314
Industrial machinery and equipment .....	468	466	461	458	455
Electronic and other electrical equipment .....	746	752	730	719	719
Transportation equipment .....	404	406	412	408	404
Instruments and related products .....	423	425	416	411	411
Miscellaneous manufacturing .....	176	184	181	175	181
<b>Nondurable goods</b> .....	3,337	3,402	3,322	3,284	3,353
Food and kindred products .....	558	580	529	551	575
Tobacco products .....	15	16	14	14	16
Textile mill products .....	348	353	344	337	344
Apparel and other textile products .....	827	853	820	780	809
Paper and allied products .....	174	175	176	175	176
Printing and publishing .....	688	688	700	697	695
Chemicals and allied products .....	320	323	331	332	332
Petroleum and coal products .....	26	26	26	27	27
Rubber and misc. plastics products .....	305	309	308	302	306
Leather and leather products .....	76	81	76	71	74
<b>Service-producing</b> .....	43,191	43,187	45,708	44,817	44,740
<b>Transportation and public utilities</b> .....	1,625	1,559	1,723	1,694	1,699
<b>Wholesale trade</b> .....	1,922	1,929	1,963	1,956	1,955
<b>Retail trade</b> .....	10,443	10,506	10,557	10,518	10,540
<b>Finance, insurance, and real estate</b> .....	4,255	4,263	4,344	4,357	4,362
<b>Services</b> .....	16,476	16,495	17,292	17,279	17,319
<b>Government</b> .....	8,470	8,435	9,829	9,013	8,865
Federal .....	1,124	1,126	1,373	1,352	1,281
State .....	1,946	1,946	2,066	2,003	2,005
Local .....	5,400	5,363	6,390	5,658	5,579

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Total</b> .....	108,980	109,245	109,383	109,654	109,958	110,122	110,177	110,617	110,829	110,740	110,613	110,561	110,493
<b>Total private</b> .....	91,096	91,344	91,456	91,656	91,917	91,963	91,922	92,120	92,282	92,300	92,320	92,262	92,164
<b>Goods-producing</b> .....	25,283	25,280	25,218	25,188	25,339	25,259	25,180	25,191	25,162	25,105	25,013	24,936	24,794
<b>Mining</b> .....	710	716	718	723	727	729	734	738	744	745	735	736	735
Oil and gas extraction .....	390	394	396	398	402	403	405	408	413	413	410	410	412
<b>Construction</b> .....	5,239	5,258	5,216	5,294	5,368	5,313	5,256	5,286	5,270	5,229	5,194	5,183	5,103
General building contractors .....	1,338	1,339	1,335	1,361	1,368	1,351	1,338	1,334	1,334	1,319	1,307	1,309	1,286
<b>Manufacturing</b> .....	19,334	19,306	19,284	19,171	19,244	19,217	19,190	19,167	19,148	19,131	19,084	19,017	18,956
<b>Durable goods</b> .....	11,337	11,314	11,296	11,192	11,278	11,261	11,229	11,217	11,201	11,179	11,129	11,067	11,027
Lumber and wood products .....	753	752	753	753	751	751	750	748	743	742	739	736	731
Furniture and fixtures .....	521	521	519	519	518	518	516	516	515	511	513	511	508
Stone, clay, and glass products .....	566	567	566	567	568	565	560	559	556	552	551	547	545
Primary metal industries .....	764	760	759	754	756	754	755	755	756	759	755	751	751
Blast furnaces and basic steel products .....	274	272	273	272	272	270	271	271	270	271	271	270	271
Fabricated metal products .....	1,433	1,429	1,426	1,412	1,418	1,418	1,419	1,417	1,415	1,419	1,419	1,411	1,403
Industrial machinery and equipment .....	2,125	2,129	2,130	2,132	2,126	2,119	2,112	2,112	2,108	2,104	2,096	2,082	2,078
Electronic and other electrical equipment .....	1,737	1,732	1,722	1,722	1,720	1,718	1,713	1,711	1,703	1,695	1,685	1,673	1,665
Transportation equipment .....	2,031	2,023	2,024	1,933	2,023	2,022	2,014	2,010	2,021	2,015	1,997	1,981	1,974
Motor vehicles and equipment .....	833	826	828	736	828	825	820	817	826	824	814	805	804
Instruments and related products .....	1,021	1,018	1,011	1,011	1,009	1,008	1,005	1,002	1,000	996	990	990	989
Miscellaneous manufacturing .....	386	383	386	389	389	388	385	387	384	386	384	385	383
<b>Nondurable goods</b> .....	7,997	7,992	7,988	7,979	7,966	7,956	7,961	7,950	7,947	7,952	7,955	7,950	7,929
Food and kindred products .....	1,651	1,651	1,650	1,651	1,650	1,648	1,651	1,650	1,643	1,645	1,650	1,653	1,655
Tobacco products .....	48	48	47	47	47	46	46	46	47	46	48	47	46
Textile mill products .....	721	718	716	715	711	709	708	703	702	702	701	697	691
Apparel and other textile products .....	1,066	1,064	1,061	1,053	1,045	1,037	1,036	1,031	1,029	1,027	1,026	1,026	1,020
Paper and allied products .....	697	697	698	697	699	698	699	698	699	701	702	700	698
Printing and publishing .....	1,567	1,571	1,573	1,576	1,576	1,578	1,579	1,581	1,582	1,583	1,582	1,580	1,580
Chemicals and allied products .....	1,076	1,077	1,081	1,081	1,083	1,083	1,084	1,085	1,086	1,088	1,086	1,089	1,088
Petroleum and coal products .....	158	158	157	158	159	159	159	159	160	160	161	161	160
Rubber and misc. plastics products .....	878	875	873	869	865	867	869	868	871	874	874	872	869
Leather and leather products .....	135	133	132	132	131	131	130	129	128	126	125	125	122
<b>Service-producing</b> .....	83,697	83,965	84,165	84,466	84,619	84,863	84,997	85,426	85,667	85,635	85,600	85,625	85,699
<b>Transportation and public utilities</b> .....	5,671	5,693	5,776	5,790	5,804	5,808	5,809	5,833	5,846	5,841	5,846	5,868	5,877
Transportation .....	3,500	3,523	3,548	3,568	3,583	3,589	3,588	3,613	3,627	3,625	3,631	3,649	3,656
Communications and public utilities .....	2,171	2,170	2,228	2,222	2,221	2,219	2,221	2,220	2,219	2,216	2,215	2,219	2,221
<b>Wholesale trade</b> .....	6,313	6,335	6,344	6,356	6,357	6,361	6,363	6,369	6,383	6,374	6,376	6,367	6,356
Durable goods .....	3,744	3,760	3,767	3,773	3,775	3,775	3,771	3,770	3,779	3,775	3,770	3,764	3,754
Nondurable goods .....	2,569	2,575	2,577	2,583	2,582	2,586	2,592	2,599	2,604	2,599	2,606	2,603	2,602
<b>Retail trade</b> .....	19,665	19,714	19,710	19,807	19,758	19,764	19,778	19,795	19,822	19,851	19,846	19,832	19,784
General merchandise stores .....	2,527	2,542	2,519	2,529	2,505	2,495	2,493	2,487	2,496	2,494	2,493	2,484	2,471
Food stores .....	3,230	3,240	3,247	3,263	3,268	3,272	3,287	3,295	3,302	3,304	3,301	3,299	3,298
Automotive dealers and service stations .....	2,115	2,116	2,113	2,117	2,118	2,120	2,118	2,121	2,120	2,131	2,135	2,137	2,128
Eating and drinking places .....	6,491	6,511	6,523	6,538	6,556	6,563	6,573	6,583	6,598	6,619	6,613	6,623	6,633
<b>Finance, insurance, and real estate</b> .....	6,756	6,774	6,785	6,794	6,817	6,821	6,823	6,838	6,844	6,842	6,852	6,852	6,853
Finance .....	3,320	3,327	3,329	3,327	3,340	3,333	3,336	3,338	3,344	3,341	3,349	3,350	3,347
Insurance .....	2,109	2,114	2,119	2,124	2,128	2,135	2,135	2,139	2,143	2,147	2,151	2,150	2,156
Real estate .....	1,327	1,333	1,337	1,343	1,349	1,353	1,352	1,361	1,357	1,354	1,352	1,352	1,350
<b>Services</b> .....	27,408	27,548	27,623	27,721	27,842	27,950	27,969	28,094	28,225	28,287	28,387	28,407	28,500
Business services .....	4,970	4,990	4,986	4,993	5,010	5,021	5,026	5,048	5,060	5,051	5,052	5,062	5,050
Health services .....	7,690	7,743	7,789	7,837	7,889	7,936	7,984	8,040	8,096	8,132	8,191	8,234	8,294
<b>Government</b> .....	17,884	17,901	17,927	17,998	18,041	18,159	18,255	18,497	18,547	18,440	18,293	18,299	18,329
Federal .....	2,986	2,982	2,977	3,000	3,005	3,089	3,151	3,346	3,338	3,164	3,045	3,007	2,992
State .....	4,202	4,212	4,206	4,225	4,239	4,249	4,252	4,262	4,296	4,298	4,305	4,318	4,330
Local .....	10,696	10,707	10,744	10,773	10,797	10,821	10,852	10,889	10,913	10,978	10,943	10,974	11,007

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark

levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

**B-5. Women employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1989					1990							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total</b> .....	51,152	51,279	51,323	51,481	51,607	51,711	51,844	51,968	52,082	52,295	52,507	52,597	52,620
<b>Total private</b> .....	41,808	41,929	41,963	42,099	42,196	42,249	42,347	42,405	42,459	42,538	42,697	42,750	42,812
<b>Goods-producing</b> .....	7,068	7,049	7,040	7,027	7,025	7,001	7,003	6,988	6,983	6,974	6,969	6,964	6,952
<b>Mining</b> .....	96	96	95	95	95	96	97	98	98	98	99	99	100
<b>Construction</b> .....	554	553	557	557	558	562	564	563	563	566	565	564	563
<b>Manufacturing</b> .....	6,418	6,400	6,388	6,375	6,372	6,343	6,342	6,327	6,322	6,310	6,305	6,301	6,289
<b>Durable goods</b> .....	3,058	3,046	3,037	3,028	3,028	3,009	3,017	3,013	3,006	3,001	2,999	2,995	2,977
Lumber and wood products .....	121	120	121	120	120	120	120	120	120	120	120	121	119
Furniture and fixtures .....	163	163	162	162	162	161	161	161	160	160	161	159	161
Stone, clay, and glass products .....	110	110	110	110	110	110	110	110	109	109	108	107	108
Primary metal industries .....	105	104	104	103	103	102	102	103	103	103	103	104	102
Fabricated metal products .....	323	322	320	318	317	314	315	315	315	314	314	315	315
Industrial machinery and equipment .....	468	467	465	465	466	466	466	463	462	460	459	459	457
Electronic and other electrical equipment .....	752	749	746	743	740	738	736	735	733	732	729	726	719
Transportation equipment .....	410	407	407	408	411	398	408	408	408	408	411	411	408
Instruments and related products .....	424	422	421	420	418	418	417	417	416	415	415	413	410
Miscellaneous manufacturing .....	182	182	181	179	181	182	182	181	180	180	179	180	178
<b>Nondurable goods</b> .....	3,360	3,354	3,351	3,347	3,344	3,334	3,325	3,314	3,316	3,309	3,306	3,306	3,312
Food and kindred products .....	540	544	541	540	539	539	537	537	538	537	532	534	536
Tobacco products .....	16	16	16	16	16	16	16	16	15	15	16	16	16
Textile mill products .....	352	351	351	350	348	347	346	344	343	341	341	341	343
Apparel and other textile products .....	855	850	847	844	843	836	827	818	818	814	813	808	811
Paper and allied products .....	173	171	172	172	172	172	173	173	173	173	173	174	174
Printing and publishing .....	690	688	690	692	693	694	694	695	696	696	697	698	697
Chemicals and allied products .....	319	319	320	321	323	324	326	326	327	327	327	329	328
Petroleum and coal 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> )
Rubber and misc. plastics products .....	311	310	309	308	306	303	303	303	304	305	306	307	308
Leather and leather products .....	79	79	79	78	78	77	77	76	76	75	75	73	73
<b>Service-producing</b> .....	44,084	44,230	44,283	44,454	44,582	44,710	44,841	44,980	45,099	45,321	45,538	45,633	45,668
<b>Transportation and public utilities</b> .....	1,580	1,630	1,635	1,642	1,677	1,680	1,687	1,690	1,692	1,702	1,713	1,711	1,721
<b>Wholesale trade</b> .....	1,928	1,931	1,933	1,943	1,946	1,949	1,947	1,950	1,949	1,950	1,957	1,956	1,955
<b>Retail trade</b> .....	10,468	10,469	10,469	10,489	10,474	10,497	10,484	10,474	10,483	10,482	10,504	10,518	10,498
<b>Finance, insurance, and real estate</b> .....	4,232	4,244	4,246	4,257	4,267	4,278	4,287	4,295	4,303	4,309	4,314	4,322	4,332
<b>Services</b> .....	16,532	16,606	16,640	16,741	16,807	16,844	16,939	17,008	17,049	17,121	17,240	17,279	17,354
<b>Government</b> .....	9,344	9,350	9,360	9,382	9,411	9,462	9,497	9,563	9,623	9,757	9,810	9,847	9,808
Federal .....	1,119	1,127	1,139	1,150	1,161	1,181	1,189	1,234	1,269	1,366	1,362	1,335	1,272
State .....	2,075	2,085	2,077	2,082	2,075	2,088	2,097	2,104	2,107	2,115	2,134	2,133	2,138
Local .....	6,150	6,138	6,144	6,150	6,175	6,193	6,211	6,225	6,247	6,276	6,314	6,379	6,398

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

Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-6. Production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Total private</b> .....	73,838	74,045	74,115	74,300	74,512	74,545	74,496	74,651	74,827	74,799	74,779	74,730	74,654
<b>Goods-producing</b> .....	17,764	17,759	17,696	17,662	17,810	17,742	17,667	17,673	17,651	17,613	17,527	17,446	17,335
<b>Mining</b> .....	507	512	514	518	521	523	527	530	537	537	528	529	531
<b>Construction</b> .....	4,086	4,103	4,058	4,135	4,205	4,158	4,094	4,120	4,107	4,066	4,031	4,014	3,941
<b>Manufacturing</b> .....	13,171	13,144	13,124	13,009	13,084	13,061	13,046	13,023	13,007	13,010	12,968	12,903	12,863
<b>Durable goods</b> .....	7,541	7,519	7,506	7,400	7,488	7,479	7,461	7,450	7,439	7,438	7,395	7,340	7,315
Lumber and wood products .....	622	621	621	622	620	620	619	617	612	610	607	606	601
Furniture and fixtures .....	415	414	412	412	411	411	409	408	408	404	406	404	401
Stone, clay, and glass products .....	442	443	442	443	444	440	436	434	432	429	428	426	424
Primary metal industries .....	581	578	576	572	575	573	574	574	574	577	572	570	571
Blast furnaces and basic steel products .....	211	209	210	209	208	207	208	208	207	208	207	207	209
Fabricated metal products .....	1,059	1,055	1,052	1,039	1,044	1,044	1,047	1,045	1,043	1,047	1,046	1,039	1,034
Industrial machinery and equipment .....	1,277	1,282	1,282	1,284	1,280	1,276	1,274	1,274	1,270	1,271	1,263	1,247	1,246
Electronic and other electrical equipment .....	1,101	1,096	1,090	1,086	1,083	1,084	1,082	1,080	1,078	1,073	1,065	1,057	1,053
Transportation equipment .....	1,257	1,248	1,250	1,154	1,244	1,246	1,239	1,238	1,250	1,253	1,239	1,224	1,220
Motor vehicles and equipment .....	639	632	635	543	634	632	628	626	634	633	622	614	614
Instruments and related products .....	505	502	499	503	503	503	502	499	495	493	490	488	487
Miscellaneous manufacturing .....	282	280	282	285	284	282	279	281	277	281	279	279	278
<b>Nondurable goods</b> .....	5,630	5,625	5,618	5,609	5,596	5,582	5,585	5,573	5,568	5,572	5,573	5,563	5,548
Food and kindred products .....	1,184	1,183	1,182	1,185	1,183	1,183	1,188	1,187	1,179	1,182	1,187	1,189	1,190
Tobacco products .....	36	36	35	35	35	35	33	34	34	34	35	35	34
Textile mill products .....	622	619	617	615	612	609	609	604	603	602	602	598	592
Apparel and other textile products .....	898	896	894	886	879	870	869	865	863	860	860	859	855
Paper and allied products .....	522	522	523	524	525	524	525	523	525	526	527	526	526
Printing and publishing .....	867	870	873	875	876	876	875	876	877	880	879	875	873
Chemicals and allied products .....	605	605	605	604	603	601	601	601	600	602	597	598	600
Petroleum and coal products .....	103	104	103	103	104	105	104	104	105	105	105	105	105
Rubber and misc. plastics products .....	682	679	677	673	670	670	673	672	676	677	678	676	673
Leather and leather products .....	111	111	109	109	109	109	108	107	106	104	103	102	100
<b>Service-producing</b> .....	56,074	56,286	56,419	56,638	56,702	56,803	56,829	56,978	57,176	57,186	57,252	57,284	57,319
<b>Transportation and public utilities</b> .....	4,718	4,737	4,801	4,821	4,826	4,833	4,831	4,848	4,866	4,852	4,843	4,866	4,877
<b>Wholesale trade</b> .....	5,081	5,094	5,099	5,116	5,111	5,111	5,109	5,106	5,130	5,118	5,117	5,106	5,103
<b>Retail trade</b> .....	17,425	17,475	17,465	17,550	17,497	17,506	17,517	17,533	17,563	17,588	17,573	17,561	17,509
<b>Finance, insurance, and real estate</b> .....	4,901	4,914	4,923	4,938	4,958	4,960	4,961	4,970	4,970	4,965	4,973	4,974	4,971
<b>Services</b> .....	23,949	24,066	24,131	24,213	24,310	24,393	24,411	24,521	24,647	24,663	24,746	24,777	24,859

<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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

**B-7. Diffusion indexes of employment change, seasonally adjusted**

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries <sup>1</sup>												
Over 1-month span:												
1989 .....	64.5	58.7	58.0	57.0	55.6	57.3	55.8	57.7	50.0	55.2	59.6	56.6
1990 .....	55.6	58.6	53.7	49.9	55.8	49.9	50.8	48.2	P 44.9	P 44.9		
Over 3-month span:												
1989 .....	65.3	64.2	60.0	60.1	59.7	58.3	59.7	54.5	55.2	55.8	57.7	60.3
1990 .....	58.4	56.7	54.8	53.1	53.7	55.3	50.1	P 44.5	P 41.6			
Over 6-month span:												
1989 .....	67.6	65.4	65.0	61.0	61.2	58.7	57.0	58.1	56.2	58.3	57.4	58.4
1990 .....	57.3	56.5	55.5	55.9	51.4	P 48.2	P 46.8					
Over 12-month span:												
1989 .....	67.1	67.7	65.3	64.6	64.9	61.2	60.0	59.8	58.6	57.3	56.7	56.0
1990 .....	54.8	54.1	P 53.4	P 50.4								
Manufacturing payrolls, 139 industries <sup>1</sup>												
Over 1-month span:												
1989 .....	60.4	48.6	50.4	47.1	45.3	45.7	45.0	45.7	34.2	48.6	43.5	48.2
1990 .....	42.4	45.7	45.3	46.8	45.7	40.3	48.2	40.6	P 38.1	P 37.8		
Over 3-month span:												
1989 .....	54.0	54.7	45.3	43.9	43.2	42.8	41.7	33.1	36.3	34.9	41.7	39.2
1990 .....	40.3	37.1	44.2	41.4	40.6	44.2	39.9	P 34.2	P 29.9			
Over 6-month span:												
1989 .....	56.5	49.6	49.3	43.5	42.1	37.1	36.7	34.9	34.2	35.3	33.1	36.0
1990 .....	37.1	35.6	36.3	43.2	38.1	P 32.4	P 29.9					
Over 12-month span:												
1989 .....	53.6	55.0	49.3	45.3	43.9	39.9	37.1	35.6	33.8	32.4	30.9	31.7
1990 .....	31.3	31.3	P 30.2	P 27.0								

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

P = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent indicates an equal balance between industries with increasing and decreasing

employment. Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1989) and all seasonally adjusted data (beginning January 1986) are subject to revision.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry**

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Alabama</b> .....	1,588.8	1,592.0	1,603.7	11.6	11.8	11.9	77.4	79.0	78.2
Birmingham .....	413.2	414.6	417.7	5.6	5.6	5.6	23.2	23.0	22.8
Huntsville .....	132.5	134.3	134.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	5.3	5.2
Mobile .....	167.9	172.3	172.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.6	10.7	10.4
Montgomery .....	132.2	133.8	134.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	7.2	7.1
Tuscaloosa .....	63.2	63.8	65.1	2.6	2.4	2.4	3.7	4.4	4.3
<b>Alaska</b> .....	243.7	250.7	245.4	10.6	12.0	11.6	12.9	13.5	13.3
<b>Arizona</b> .....	1,461.9	1,477.1	1,510.3	12.3	12.9	12.8	87.9	85.7	85.1
Phoenix .....	962.0	977.1	994.9	1.0	.9	.9	58.6	57.0	56.7
Tucson .....	249.6	249.6	255.5	2.1	2.2	2.3	15.2	14.8	14.7
<b>Arkansas</b> .....	907.5	918.0	932.6	4.1	4.1	4.1	34.8	35.1	34.6
Fayetteville-Springdale .....	54.6	54.6	55.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.6
Fort Smith .....	78.9	80.1	79.7	.9	.9	.9	2.8	2.7	2.7
Little Rock-North Little Rock .....	248.4	248.6	251.8	.4	.4	.4	10.3	10.8	10.6
Pine Bluff .....	33.9	32.8	33.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.3	1.2
<b>California</b> .....	12,591.2	12,746.2	12,823.7	42.0	41.7	41.4	671.4	664.9	660.7
Anaheim-Santa Ana .....	1,201.4	1,213.7	1,216.3	1.4	1.4	1.3	75.9	69.6	68.4
Bakersfield .....	168.8	167.6	170.6	13.6	14.4	14.3	10.9	11.1	11.0
Fresno .....	223.8	233.9	240.4	.7	.7	.7	13.8	14.9	15.1
Los Angeles-Long Beach .....	4,224.3	4,271.4	4,287.2	9.4	9.9	9.9	157.9	155.6	155.5
Modesto .....	120.4	125.4	125.1	.1	.1	.1	8.1	8.8	8.6
Oakland .....	895.4	916.1	924.5	4.2	4.1	4.0	55.4	56.8	58.9
Oxnard-Ventura .....	228.9	233.4	232.8	2.4	2.5	2.4	17.9	18.7	18.5
Riverside-San Bernardino .....	684.3	706.4	712.9	1.4	1.4	1.4	69.5	71.2	71.1
Sacramento .....	605.8	622.2	628.5	.8	.9	.9	38.4	39.4	39.3
San Diego .....	976.2	991.9	999.6	.8	.8	.8	65.2	64.5	63.6
San Francisco .....	962.8	968.2	974.1	.6	.6	.6	35.9	35.9	36.2
San Jose .....	831.1	833.7	830.4	.2	.2	.2	34.9	35.0	34.6
Santa Barbara-Santa Maria-Lompoc .....	148.4	149.6	150.5	1.4	1.4	1.4	7.0	7.1	7.2
Santa Rosa-Petaluma .....	140.2	142.3	146.8	.7	.7	.7	12.0	11.5	11.6
Stockton .....	156.0	158.8	157.8	.1	.1	.1	9.4	9.4	9.4
Vallejo-Fairfield-Napa .....	135.4	140.3	141.1	.7	.7	.8	10.6	11.5	11.4
<b>Colorado</b> .....	1,479.3	1,500.8	1,507.9	20.0	19.6	19.4	62.4	63.4	62.5
Boulder-Longmont .....	115.1	113.6	116.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.2	4.2
Denver .....	822.7	836.3	841.9	11.8	11.3	11.3	32.3	36.5	36.4
<b>Connecticut</b> .....	1,681.6	1,661.9	1,670.8	1.4	1.3	1.3	80.7	74.1	73.2
Bridgeport-Milford .....	199.1	192.7	195.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.0	8.6	8.4
Hartford .....	487.7	481.8	487.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.1	20.0	20.5
New Britain .....	67.2	65.3	66.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.0	4.6	4.5
New Haven-Meriden .....	257.9	248.6	250.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.2	11.1	10.6
Stamford .....	126.1	123.6	123.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.6	5.2	5.1
Waterbury .....	88.1	85.3	85.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.5	4.5	4.3
<b>Delaware</b> .....	344.1	350.7	345.4	.1	.1	.1	20.2	20.0	19.5
Wilmington .....	295.0	298.7	296.6	.2	.2	.2	18.6	18.4	18.2
<b>District of Columbia</b> .....	683.8	681.3	683.1	.1	.1	.1	14.5	14.2	14.3
Washington MSA .....	2,241.4	2,240.9	2,246.6	1.1	1.1	1.1	152.9	141.8	140.2
<b>Florida</b> .....	5,286.7	5,396.1	5,469.8	9.3	9.2	9.2	341.4	328.3	325.2
Daytona Beach .....	121.5	121.1	122.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.1	7.6	7.5
Fort Lauderdale-Hollywood-Pompano Beach .....	500.3	509.3	513.4	.3	.2	.3	35.1	35.1	35.2
Fort Myers-Cape Coral .....	123.9	130.6	132.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	13.4	12.4	12.3
Gainesville .....	99.9	100.0	102.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.5	4.3	4.1
Jacksonville .....	420.3	421.7	426.9	.7	.7	.7	27.4	26.7	26.5
Lakeland-Winter Haven .....	154.5	154.8	156.5	4.0	3.8	3.7	8.9	8.5	8.6
Melbourne-Titusville-Palm Bay .....	160.6	163.5	164.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.5	8.9	9.0
Miami-Hialeah .....	876.2	887.9	900.8	1.0	.9	.9	40.7	40.5	40.5
Orlando .....	544.2	555.2	559.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	37.1	37.1	37.2
Pensacola .....	128.5	128.3	129.2	.4	.4	.4	8.3	8.3	8.1
Sarasota .....	112.4	113.8	115.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.4	10.0	9.9
Tallahassee .....	121.9	121.8	125.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.0	6.1	5.9
Tampa-St. Petersburg-Clearwater .....	864.2	875.2	881.1	.6	.7	.7	53.8	54.9	54.8
West Palm Beach-Boca Raton-Delray Beach .....	353.2	356.6	362.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	28.9	27.5	27.6

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Alabama</b> .....	385.4	381.3	382.3	79.9	80.8	80.4	350.4	350.2	349.9
Birmingham .....	57.7	56.8	57.1	32.3	32.4	32.2	102.1	101.9	102.3
Huntsville .....	33.0	33.8	33.6	2.9	2.8	2.8	25.1	25.6	25.6
Mobile .....	26.5	27.9	27.7	9.9	9.7	9.7	46.3	47.1	47.3
Montgomery .....	18.6	18.1	18.1	5.3	5.2	5.2	30.5	30.8	30.8
Tuscaloosa .....	10.5	10.7	10.7	2.1	2.2	2.2	12.9	13.0	13.1
<b>Alaska</b> .....	18.3	23.7	18.1	23.3	21.0	20.7	46.6	48.9	48.1
<b>Arizona</b> .....	188.0	188.8	188.1	76.9	80.8	80.8	364.0	372.7	376.0
Phoenix .....	139.8	139.3	139.1	53.7	56.9	57.2	244.0	250.8	253.3
Tucson .....	27.2	27.1	27.0	9.6	9.7	9.7	58.8	58.8	59.5
<b>Arkansas</b> .....	231.5	234.6	234.8	56.2	55.4	56.1	208.3	215.2	215.9
Fayetteville-Springdale .....	13.5	13.6	13.7	5.0	4.9	4.9	12.4	12.5	12.6
Fort Smith .....	24.8	26.3	26.0	4.3	4.4	4.3	16.8	16.4	16.4
Little Rock-North Little Rock .....	33.7	33.4	33.6	16.5	16.0	16.1	61.0	62.0	62.1
Pine Bluff .....	6.5	6.3	6.3	2.8	2.7	2.7	7.4	7.4	7.5
<b>California</b> .....	2,174.1	2,146.5	2,139.0	610.8	613.0	614.9	2,979.0	3,034.0	3,035.3
Anaheim-Santa Ana .....	259.4	257.0	257.3	35.1	36.1	36.1	303.5	310.5	308.1
Bakersfield .....	10.6	10.8	10.9	8.4	8.5	8.5	40.4	39.9	39.8
Fresno .....	27.4	27.0	28.0	12.9	12.6	12.9	56.7	60.0	60.3
Los Angeles-Long Beach .....	889.0	866.8	865.1	214.8	216.5	217.4	965.4	980.0	980.4
Modesto .....	29.6	31.7	30.5	4.8	5.0	5.0	30.0	30.5	30.6
Oakland .....	116.8	117.9	117.8	60.3	62.9	63.1	218.6	225.4	226.0
Oxnard-Ventura .....	31.8	30.4	30.6	11.7	11.3	11.4	56.8	58.8	58.9
Riverside-San Bernardino .....	89.6	90.1	90.5	33.4	33.9	34.0	169.0	174.7	174.8
Sacramento .....	45.5	48.7	47.8	27.2	27.6	27.8	143.3	146.1	147.5
San Diego .....	136.0	134.2	134.0	36.1	36.5	36.5	238.3	242.5	242.6
San Francisco .....	81.4	81.2	81.3	77.9	79.4	79.8	220.1	218.9	218.6
San Jose .....	272.7	270.1	267.1	22.5	22.5	22.6	170.4	169.3	169.2
Santa Barbara-Santa Maria-Lompoc .....	22.6	22.3	22.4	5.3	5.4	5.4	34.5	34.9	34.9
Santa Rosa-Petaluma .....	22.5	21.8	22.3	6.4	6.8	6.8	35.4	37.9	38.2
Stockton .....	26.3	28.7	26.9	9.3	9.1	8.9	36.6	36.5	36.8
Vallejo-Fairfield-Napa .....	13.7	14.1	14.1	4.9	5.3	5.4	33.3	35.1	35.4
<b>Colorado</b> .....	194.5	196.0	195.0	93.5	93.8	93.5	360.7	372.6	371.3
Boulder-Longmont .....	30.9	30.3	30.4	2.4	2.4	2.4	24.1	24.4	25.0
Denver .....	95.6	97.1	95.9	67.9	68.6	68.4	201.0	205.8	204.7
<b>Connecticut</b> .....	358.0	344.6	348.4	73.3	69.8	73.1	384.9	379.4	379.8
Bridgeport-Milford .....	52.9	49.6	50.0	8.8	8.7	8.9	45.3	44.0	44.3
Hartford .....	85.2	84.6	86.6	19.1	18.7	19.2	104.3	100.1	100.4
New Britain .....	19.3	18.1	18.7	3.2	3.4	3.8	14.0	13.8	13.8
New Haven-Meriden .....	46.1	43.4	44.3	16.2	16.3	16.4	59.5	56.3	56.0
Stamford .....	21.1	18.8	19.0	5.8	6.0	6.0	29.9	29.9	29.7
Waterbury .....	22.7	20.5	20.6	3.4	3.3	3.4	18.2	17.0	17.3
<b>Delaware</b> .....	73.8	72.4	71.4	14.6	14.7	14.7	74.7	77.1	75.6
Wilmington .....	63.0	61.6	61.1	15.5	16.3	16.5	61.3	61.5	61.5
<b>District of Columbia</b> .....	16.1	16.2	16.0	24.7	24.7	24.6	62.9	61.7	61.2
Washington MSA .....	90.1	88.8	87.9	110.8	112.2	112.4	435.1	443.6	439.9
<b>Florida</b> .....	540.5	533.0	531.2	267.3	278.8	277.6	1,428.8	1,469.7	1,469.2
Daytona Beach .....	12.2	12.3	12.4	4.1	4.2	4.1	35.7	36.0	35.7
Fort Lauderdale-Hollywood-Pompano Beach .....	46.0	46.1	45.9	22.6	23.5	23.5	146.7	150.9	150.8
Fort Myers-Cape Coral .....	6.1	6.2	6.3	5.2	5.7	5.8	36.7	39.1	39.0
Gainesville .....	5.7	5.4	5.4	1.8	1.9	1.9	21.9	22.0	22.2
Jacksonville .....	39.2	38.0	37.9	29.2	29.0	29.3	112.2	114.3	114.2
Lakeland-Winter Haven .....	23.0	22.5	22.8	7.0	7.2	7.2	42.8	43.9	43.9
Melbourne-Titusville-Palm Bay .....	29.6	30.2	30.3	4.2	4.4	4.4	37.5	38.3	38.3
Miami-Hialeah .....	91.0	90.7	90.9	68.7	72.9	72.8	238.0	242.8	243.1
Orlando .....	54.5	53.2	53.0	27.6	29.0	29.0	143.2	146.2	146.0
Pensacola .....	11.4	11.3	11.2	6.7	6.5	6.5	33.0	33.5	33.2
Sarasota .....	8.7	8.6	8.6	3.5	3.6	3.6	33.1	32.7	32.6
Tallahassee .....	4.9	4.8	4.8	3.1	3.1	3.1	27.0	27.3	27.9
Tampa-St. Petersburg-Clearwater .....	96.0	95.8	95.5	40.9	42.0	42.1	238.6	243.6	242.8
West Palm Beach-Boca Raton-Delray Beach .....	34.6	33.9	34.1	13.7	14.4	14.4	93.3	95.1	96.0

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Alabama</b> .....	70.8	71.8	71.7	305.2	308.4	309.8	308.1	308.7	319.5
Birmingham .....	29.0	29.0	28.8	98.8	101.8	101.9	64.5	64.1	67.0
Huntsville .....	3.8	3.9	3.9	32.0	32.7	32.7	30.7	30.2	31.0
Mobile .....	7.6	7.4	7.4	40.8	41.4	41.6	26.2	28.1	28.2
Montgomery .....	7.7	7.8	7.8	30.6	31.2	31.4	32.5	33.5	33.9
Tuscaloosa .....	2.1	2.2	2.2	9.3	9.7	9.8	20.0	19.2	20.4
<b>Alaska</b> .....	10.6	10.9	10.8	49.8	51.6	50.7	71.6	69.1	72.1
<b>Arizona</b> .....	93.0	95.5	95.6	388.8	406.8	409.1	251.0	233.9	262.6
Phoenix .....	74.5	76.8	77.0	261.6	273.9	275.8	128.8	121.5	134.9
Tucson .....	11.3	11.5	11.5	71.6	74.1	74.7	53.8	51.4	56.1
<b>Arkansas</b> .....	38.6	39.1	38.8	177.0	187.6	187.2	157.0	146.9	161.1
Fayetteville-Springdale .....	1.6	1.6	1.5	9.1	9.5	9.6	11.4	10.8	11.8
Fort Smith .....	3.0	2.9	2.9	18.3	19.0	18.3	8.0	7.5	8.2
Little Rock-North Little Rock .....	15.6	15.7	15.7	62.2	64.5	64.1	48.7	45.8	49.2
Pine Bluff .....	1.2	1.2	1.2	6.9	6.9	6.9	7.6	7.0	7.6
<b>California</b> .....	843.4	864.5	863.2	3,295.9	3,411.3	3,421.4	1,974.6	1,970.3	2,047.8
Anaheim-Santa Ana .....	95.9	98.5	97.8	312.2	323.9	323.7	118.0	116.7	123.6
Bakersfield .....	6.5	6.8	6.8	35.4	35.8	35.6	43.0	40.3	43.7
Fresno .....	12.2	12.8	12.8	52.8	58.3	58.8	47.3	47.6	50.8
Los Angeles-Long Beach .....	294.4	301.2	301.6	1,187.0	1,221.7	1,228.4	506.4	519.7	528.9
Modesto .....	5.1	5.4	5.4	23.8	25.2	25.5	18.9	18.7	19.4
Oakland .....	57.5	58.8	58.6	220.4	229.6	231.4	162.2	160.6	166.7
Oxnard-Ventura .....	11.5	11.3	11.3	54.9	57.2	56.9	41.9	43.2	42.8
Riverside-San Bernardino .....	28.8	29.9	30.1	158.2	165.9	168.3	134.4	139.3	142.7
Sacramento .....	39.4	40.5	40.4	134.3	140.5	140.9	176.9	178.5	183.9
San Diego .....	67.8	68.3	68.0	263.6	279.0	279.2	168.4	166.1	174.9
San Francisco .....	110.2	110.4	110.2	303.5	311.5	311.5	133.2	130.3	135.9
San Jose .....	32.8	32.6	32.4	212.6	218.1	215.7	85.0	85.9	88.6
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.7	8.7	41.9	42.4	42.6	27.1	27.4	27.9
Santa Rosa-Petaluma .....	8.0	8.2	8.2	31.8	34.8	35.1	23.4	20.6	23.9
Stockton .....	9.6	9.5	9.5	32.6	32.9	33.2	32.1	32.6	33.0
Vallejo-Fairfield-Napa .....	4.9	5.2	5.2	29.7	31.8	31.5	37.6	36.6	37.3
<b>Colorado</b> .....	95.5	97.3	96.5	381.1	402.7	396.5	271.6	255.4	273.2
Boulder-Longmont .....	4.2	4.2	4.2	26.7	28.2	27.9	22.7	19.9	22.2
Denver .....	63.9	64.2	64.1	221.1	231.1	229.8	129.1	121.7	131.3
<b>Connecticut</b> .....	150.7	153.1	151.3	428.4	439.4	438.2	204.2	200.2	205.5
Bridgeport-Milford .....	12.4	12.3	12.2	50.7	51.5	51.6	20.0	18.0	19.7
Hartford .....	74.2	75.4	74.9	116.6	118.4	119.2	66.2	64.6	66.6
New Britain .....	3.5	3.4	3.4	14.6	15.4	15.5	6.6	6.6	6.7
New Haven-Meriden .....	16.5	17.4	17.1	75.0	73.3	74.1	31.4	30.8	31.7
Stamford .....	14.3	14.3	14.1	38.4	39.2	38.6	11.0	10.2	10.8
Waterbury .....	4.3	4.1	4.2	22.4	23.3	23.1	12.6	12.6	12.6
<b>Delaware</b> .....	30.4	31.1	30.7	83.8	87.2	86.2	46.5	48.1	47.2
Wilmington .....	27.1	27.8	27.6	72.7	75.5	74.9	36.6	37.4	36.6
<b>District of Columbia</b> .....	33.4	33.3	32.8	257.3	253.9	257.1	274.8	277.2	277.0
Washington MSA .....	131.5	131.7	129.9	738.7	743.5	741.9	581.2	578.2	593.3
<b>Florida</b> .....	373.5	377.8	375.4	1,507.3	1,606.8	1,611.9	818.6	792.5	870.1
Daytona Beach .....	5.9	5.7	5.7	35.2	35.9	35.9	20.3	19.4	21.3
Fort Lauderdale-Hollywood-Pompano Beach .....	41.1	41.7	41.5	144.4	148.1	147.9	64.1	63.7	68.3
Fort Myers-Cape Coral .....	9.1	9.4	9.4	34.8	37.8	38.1	18.5	19.9	21.9
Gainesville .....	4.6	4.7	4.6	25.3	25.8	26.0	36.0	35.9	37.8
Jacksonville .....	40.2	41.1	41.1	109.0	113.1	113.1	62.4	58.8	64.1
Lakeland-Winter Haven .....	9.1	9.2	9.1	38.2	39.2	39.2	21.5	20.5	22.0
Melbourne-Titusville-Palm Bay .....	6.0	5.7	5.6	50.8	52.7	53.1	22.9	23.2	23.7
Miami-Hialeah .....	72.5	72.7	72.3	245.2	250.6	252.9	119.1	116.8	127.4
Orlando .....	33.7	33.3	33.3	185.5	198.3	195.1	62.4	58.0	65.3
Pensacola .....	5.4	5.3	5.3	33.5	34.2	34.2	29.8	28.8	30.3
Sarasota .....	8.0	8.2	8.2	35.5	38.0	38.4	13.2	12.7	13.8
Tallahassee .....	5.2	5.1	5.1	26.0	26.6	26.6	49.4	48.5	52.1
Tampa-St. Petersburg-Clearwater .....	65.7	65.7	65.7	257.6	266.9	266.7	111.0	105.6	112.8
West Palm Beach-Boca Raton-Delray Beach .....	29.6	29.6	29.5	108.1	112.6	114.0	45.0	43.5	47.3

See footnotes at end of table.



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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Georgia</b> .....	2,969.0	3,009.2	3,007.4	8.7	8.7	8.7	148.8	148.8	144.6
Albany .....	48.0	47.7	48.2	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	2.2	2.1	2.1
Athens .....	66.8	67.5	67.2	.1	.1	.1	2.7	2.8	2.7
Atlanta .....	1,466.2	1,491.7	1,491.5	1.3	1.2	1.2	68.9	69.3	68.0
Augusta .....	171.0	172.7	172.6	.5	.6	.6	15.3	15.5	15.4
Columbus .....	93.6	93.4	92.8	.1	.1	.1	4.9	4.3	4.2
Macon-Warner Robins .....	125.3	125.1	125.3	.1	.2	.2	5.0	5.0	4.8
Savannah .....	108.7	110.8	109.9	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	8.0	7.6	7.5
<b>Hawaii</b> .....	502.3	516.9	510.8	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	31.1	29.3	29.4
Honolulu .....	392.8	404.0	398.9	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	23.9	22.0	22.0
<b>Idaho</b> .....	381.7	388.2	399.1	3.8	4.0	4.0	18.0	21.1	21.2
Boise City .....	101.6	106.7	107.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	6.3	6.6	6.9
<b>Illinois</b> .....	5,191.6	5,208.4	5,218.8	20.2	20.2	20.2	224.2	219.8	218.4
Aurora-Elgin .....	138.5	145.0	145.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	7.6	8.6	8.4
Bloomington-Normal .....	64.6	63.2	66.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.3	3.4	3.3
Champaign-Urbana-Rantoul .....	90.3	84.4	90.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.7	2.6	2.6
Chicago .....	3,189.7	3,221.9	3,225.5	2.1	2.2	2.1	137.8	140.5	138.8
Davenport-Rock Island-Moline .....	162.3	165.1	165.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	6.3	6.4	6.3
Decatur .....	52.7	53.8	54.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.4	3.4	3.4
Joliet .....	103.2	103.7	104.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	8.7	8.8	8.7
Kankakee .....	34.4	35.3	35.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.0	1.8	1.9
Lake County .....	211.2	217.8	216.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	14.8	11.9	11.8
Peoria .....	144.7	145.2	145.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	6.7	7.1	7.1
Rockford .....	135.6	136.3	136.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	6.1	6.5	6.5
Springfield .....	103.3	109.6	104.2	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.6	4.0	3.9
<b>Indiana</b> .....	2,502.5	2,533.6	2,550.8	8.1	8.1	8.1	124.4	137.8	136.2
Anderson .....	50.6	49.8	50.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.6	1.9	1.9
Bloomington .....	56.9	53.3	58.2	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.5	2.5	2.5
Elkhart-Goshen .....	106.5	108.9	107.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.6	4.1	4.0
Evansville .....	134.4	138.7	138.7	2.2	2.1	2.1	8.1	9.8	9.7
Fort Wayne .....	203.3	207.5	209.1	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	10.0	11.7	11.6
Gary-Hammond .....	243.3	240.7	245.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	18.4	19.2	19.6
Indianapolis .....	665.2	672.5	674.7	.8	.8	.8	38.8	39.6	39.4
Kokomo .....	46.5	47.3	47.6	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.2	1.7	1.7
Lafayette-West Lafayette .....	71.1	68.4	74.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.6	3.2	3.0
Muncie .....	51.6	53.3	55.2	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.9	2.1	2.1
South Bend-Mishawaka .....	122.5	121.5	125.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	7.0	8.7	8.6
Terre Haute .....	57.6	56.0	58.5	.4	.4	.4	2.8	4.1	4.1
<b>Iowa</b> .....	1,214.5	1,217.4	1,235.3	2.1	2.2	2.2	46.0	52.9	51.9
Cedar Rapids .....	95.0	93.9	93.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	4.1	4.8	4.3
Des Moines .....	227.2	228.9	229.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	9.3	9.4	9.3
Dubuque .....	44.4	42.1	44.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.6	2.1	2.0
Iowa City .....	54.1	55.5	56.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.8	2.2	2.2
Sioux City .....	54.5	54.5	54.5	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.3	2.3	2.4
Waterloo-Cedar Falls .....	68.7	68.1	71.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.6	2.5	2.5
<b>Kansas</b> .....	1,079.8	1,084.3	1,098.4	9.4	10.0	9.9	42.6	45.3	44.9
Lawrence .....	36.4	37.1	37.5	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.7	1.7	1.7
Topeka .....	90.3	90.2	89.6	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.9	4.2	3.9
Wichita .....	238.7	237.4	239.9	1.7	2.0	2.0	9.2	9.7	9.6
<b>Kentucky</b> .....	1,452.0	1,474.5	1,482.4	34.4	34.1	34.0	70.8	72.4	71.5
Lexington-Fayette .....	200.1	204.7	205.5	.3	.2	.2	11.9	12.7	12.4
Louisville .....	472.1	487.5	487.2	.6	.5	.5	24.0	24.5	24.2
Owensboro .....	36.3	36.9	37.2	.5	.5	.5	2.3	2.1	2.1
<b>Louisiana</b> .....	1,525.2	1,528.6	1,540.0	54.6	55.1	55.1	82.1	83.4	84.3
Alexandria .....	46.2	45.3	45.6	.2	.1	.1	3.2	2.6	2.6
Baton Rouge .....	229.3	229.3	232.6	.8	.8	.8	25.2	26.3	26.5
Houma-Thibodaux .....	54.4	57.1	56.6	5.5	5.7	5.5	1.9	2.0	1.9
Lafayette .....	87.5	92.2	92.8	11.5	11.9	12.0	3.3	3.8	3.7
Lake Charles .....	62.6	62.8	63.6	.9	1.1	1.1	5.0	4.3	4.4
Monroe .....	56.1	56.6	56.0	.5	.6	.6	2.8	2.7	2.6
New Orleans .....	530.9	532.8	533.8	14.5	14.5	14.4	22.6	23.4	24.1
Shreveport .....	131.5	130.8	132.1	3.1	3.1	3.0	5.4	6.1	6.0

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Georgia</b> .....	571.0	561.4	555.8	186.0	192.6	192.1	755.5	771.2	772.6
Albany .....	7.4	7.8	7.8	2.9	2.9	2.9	11.8	11.7	11.8
Athens .....	15.6	14.8	14.8	2.0	1.8	1.8	15.0	15.5	15.6
Atlanta .....	179.4	177.5	173.6	122.9	128.8	129.2	414.3	419.2	420.1
Augusta .....	37.9	38.4	38.3	4.5	4.7	4.6	36.8	36.9	37.0
Columbus .....	19.0	18.9	18.8	3.2	3.1	3.0	21.6	21.3	21.2
Macon-Warner Robins .....	18.9	18.9	18.9	5.2	5.3	5.3	28.3	28.6	28.5
Savannah .....	17.2	17.7	17.7	9.4	10.3	9.6	26.5	26.8	26.5
<b>Hawaii</b> .....	21.0	20.8	20.5	40.9	41.6	41.8	133.0	135.2	134.1
Honolulu .....	15.7	15.4	15.2	33.2	33.8	34.0	102.2	103.4	102.8
<b>Idaho</b> .....	64.0	64.2	65.1	19.9	19.9	20.4	97.1	101.2	101.9
Boise City .....	15.2	16.8	16.6	5.6	6.0	5.8	26.3	28.3	28.2
<b>Illinois</b> .....	982.1	980.4	981.1	305.6	307.0	307.3	1,271.8	1,287.3	1,285.5
Aurora-Elgin .....	39.9	39.1	39.1	3.4	3.6	3.5	34.8	36.6	36.7
Bloomington-Normal .....	7.7	7.7	7.7	2.7	2.6	2.6	14.0	14.2	14.3
Champaign-Urbana-Rantoul .....	8.0	8.0	8.1	2.2	2.3	2.3	19.1	18.8	18.9
Chicago .....	556.6	559.2	558.9	206.2	205.9	207.5	774.0	793.1	791.7
Davenport-Rock Island-Moline .....	33.2	34.0	33.8	7.1	7.4	7.3	46.6	47.3	47.4
Decatur .....	13.9	14.3	14.3	5.0	5.2	5.2	11.2	11.5	11.5
Joliet .....	19.0	18.9	18.9	8.7	8.6	8.8	23.3	24.4	24.1
Kankakee .....	5.6	5.5	5.5	2.0	2.0	2.0	8.8	9.3	9.3
Lake County .....	46.5	47.5	47.4	5.9	6.1	6.1	58.7	61.1	60.7
Peoria .....	33.7	33.2	33.5	7.1	6.8	7.0	35.2	35.1	35.1
Rockford .....	48.0	47.5	47.7	4.7	4.6	4.6	30.6	31.1	31.1
Springfield .....	3.9	3.8	3.8	4.9	4.7	4.7	23.4	25.2	23.2
<b>Indiana</b> .....	640.4	638.6	638.4	129.5	133.5	133.4	597.2	605.4	603.2
Anderson .....	17.2	15.9	16.7	1.4	1.3	1.3	12.0	12.0	12.0
Bloomington .....	9.4	9.3	9.2	1.7	1.8	1.8	12.3	10.9	11.7
Elkhart-Goshen .....	53.5	53.0	52.2	3.4	3.8	3.8	20.2	20.6	20.0
Evansville .....	30.8	31.7	31.1	6.9	7.1	7.0	35.3	35.4	35.3
Fort Wayne .....	53.6	53.3	53.5	13.7	13.1	13.0	49.1	48.9	48.5
Gary-Hammond .....	56.9	56.9	56.4	15.3	15.0	14.8	57.9	58.7	58.2
Indianapolis .....	110.1	107.1	109.6	41.1	43.3	42.9	172.7	176.9	175.5
Kokomo .....	18.7	18.8	19.1	1.6	1.6	1.6	10.8	10.1	9.9
Lafayette-West Lafayette .....	13.1	13.3	13.2	1.8	1.8	1.8	14.9	15.1	15.3
Muncie .....	9.4	11.5	11.9	3.0	3.2	3.3	13.1	13.2	13.2
South Bend-Mishawaka .....	23.3	22.4	22.7	5.1	5.1	5.1	32.5	32.7	32.7
Terre Haute .....	10.6	10.8	10.9	2.8	2.8	2.7	15.6	15.1	15.3
<b>Iowa</b> .....	236.6	233.8	235.3	56.3	55.7	55.4	310.7	319.3	318.2
Cedar Rapids .....	24.1	21.5	21.7	5.7	5.9	5.7	22.3	22.9	22.4
Des Moines .....	25.4	26.0	26.0	12.7	12.3	12.4	59.2	59.8	59.5
Dubuque .....	12.8	11.5	12.7	1.7	1.7	1.7	10.4	10.2	10.2
Iowa City .....	4.5	4.5	4.5	1.4	1.4	1.4	10.9	11.0	11.5
Sioux City .....	10.8	10.7	10.7	3.4	3.5	3.4	14.1	13.8	13.7
Waterloo-Cedar Falls .....	15.8	16.8	17.1	1.8	2.0	2.0	16.9	17.3	17.5
<b>Kansas</b> .....	183.9	184.8	186.0	66.3	66.6	67.8	270.1	273.2	273.5
Lawrence .....	4.6	4.7	4.7	1.0	1.1	1.1	8.1	8.2	8.4
Topeka .....	9.1	9.7	9.3	6.9	6.7	6.7	20.1	19.7	19.6
Wichita .....	63.7	65.0	64.9	11.4	11.2	11.0	54.0	54.3	54.5
<b>Kentucky</b> .....	281.3	285.9	284.7	77.3	77.0	76.3	349.8	356.3	357.8
Lexington-Fayette .....	33.7	33.4	33.3	9.2	9.1	9.0	44.7	44.1	44.8
Louisville .....	84.9	89.3	87.9	30.6	30.3	30.0	120.4	122.6	124.1
Owensboro .....	6.4	6.5	6.4	2.2	2.3	2.2	9.5	10.0	10.1
<b>Louisiana</b> .....	174.9	175.8	177.0	106.1	106.0	106.4	365.4	367.9	367.6
Alexandria .....	3.4	3.5	3.4	2.3	2.4	2.4	10.6	10.3	10.2
Baton Rouge .....	21.2	22.0	22.1	10.5	10.5	10.5	53.8	54.3	54.4
Houma-Thibodaux .....	4.9	5.2	5.3	6.3	6.6	6.6	14.2	14.6	14.4
Lafayette .....	7.5	8.5	8.5	6.2	6.2	6.4	23.9	24.4	24.7
Lake Charles .....	11.4	11.4	11.3	3.8	4.1	4.3	15.0	15.0	15.2
Monroe .....	7.4	7.7	7.8	3.1	2.8	2.7	14.3	14.3	14.2
New Orleans .....	44.3	44.1	44.5	43.4	43.4	43.5	136.6	135.8	135.6
Shreveport .....	17.8	17.8	17.9	8.4	8.4	8.4	32.6	33.1	32.8

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Georgia</b> .....	164.8	165.4	164.8	622.6	640.0	641.8	511.5	521.2	527.0
Albany .....	2.1	2.1	2.1	8.8	8.8	8.7	12.8	12.2	12.7
Athens .....	2.0	2.0	2.0	11.1	11.5	11.7	18.4	18.9	18.4
Atlanta .....	106.6	107.2	106.5	364.2	374.9	376.7	208.7	213.7	216.3
Augusta .....	5.7	5.5	5.5	35.1	35.8	35.6	35.2	35.3	35.7
Columbus .....	6.0	5.8	5.7	18.1	18.7	18.7	20.7	21.2	21.1
Macon-Warner Robins .....	7.3	7.6	7.6	25.2	24.8	24.9	35.1	34.6	35.1
Savannah .....	4.9	5.0	5.0	26.4	26.8	26.8	16.3	16.6	16.8
<b>Hawaii</b> .....	35.3	36.3	36.3	145.8	151.7	151.3	95.2	102.0	97.4
Honolulu .....	28.7	29.6	29.6	110.4	115.7	115.3	78.7	84.1	80.0
<b>Idaho</b> .....	19.5	19.9	19.9	79.2	81.5	82.6	80.2	76.4	84.0
Boise City .....	7.8	7.8	7.8	22.1	23.1	22.4	18.3	18.1	19.3
<b>Illinois</b> .....	374.1	375.6	374.3	1,284.2	1,313.6	1,299.9	729.4	704.5	732.1
Aurora-Elgin .....	7.1	7.9	7.9	32.1	34.2	34.0	13.6	15.0	16.3
Bloomington-Normal .....	10.8	11.0	11.0	13.2	13.8	13.4	12.9	10.5	13.7
Champaign-Urbana-Rantoul .....	3.2	3.2	3.2	17.3	18.0	17.5	37.8	31.5	38.1
Chicago .....	270.7	274.7	273.2	877.9	888.7	885.0	364.4	357.6	368.3
Davenport-Rock Island-Moline .....	7.6	7.8	7.8	35.4	36.7	36.1	26.1	25.5	26.3
Decatur .....	2.3	2.3	2.4	11.3	11.8	11.5	5.6	5.3	5.7
Joliet .....	3.4	3.6	3.5	23.3	24.0	23.6	16.8	15.4	17.1
Kankakee .....	1.3	1.3	1.4	8.3	9.4	8.8	6.4	6.0	6.4
Lake County .....	9.9	10.2	10.1	44.4	51.0	48.7	31.0	30.0	31.2
Peoria .....	7.2	7.3	7.4	39.2	40.5	39.8	15.6	15.2	15.8
Rockford .....	5.2	5.3	5.3	29.0	30.4	29.8	12.0	10.9	11.8
Springfield .....	8.1	8.3	8.4	25.8	29.0	26.0	33.6	34.6	34.2
<b>Indiana</b> .....	123.1	127.0	125.0	517.0	535.8	537.8	362.9	347.4	368.8
Anderson .....	1.5	1.5	1.5	10.8	11.4	11.3	6.1	5.8	6.0
Bloomington .....	2.1	1.8	1.8	10.3	11.6	12.4	18.6	15.3	19.0
Elkhart-Goshen .....	3.2	3.2	3.1	16.3	17.8	17.6	6.2	6.5	6.5
Evansville .....	5.4	5.5	5.5	33.8	36.3	35.9	11.9	11.0	12.1
Fort Wayne .....	12.7	13.3	13.1	47.4	51.4	51.7	16.7	15.8	17.7
Gary-Hammond .....	8.4	8.6	8.5	55.1	56.0	57.0	31.3	26.3	31.5
Indianapolis .....	49.3	50.4	49.8	156.7	159.2	159.3	95.6	95.3	97.5
Kokomo .....	1.4	1.5	1.4	7.1	7.9	7.9	5.7	5.7	6.1
Lafayette-West Lafayette .....	3.1	3.1	3.1	14.1	15.2	15.7	21.6	16.7	22.2
Muncie .....	1.7	1.7	1.7	11.5	11.8	11.6	11.1	9.8	11.4
South Bend-Mishawaka .....	6.3	6.4	6.3	37.0	34.8	37.1	11.4	11.4	12.6
Terre Haute .....	2.1	2.1	2.1	12.5	12.0	12.3	10.8	8.7	10.7
<b>Iowa</b> .....	69.2	71.7	70.8	279.7	279.6	286.2	213.9	202.2	215.3
Cedar Rapids .....	4.6	4.6	4.6	23.4	23.3	24.1	10.8	10.9	11.0
Des Moines .....	32.0	33.6	33.3	58.2	57.4	58.2	30.4	30.4	31.1
Dubuque .....	1.5	1.5	1.5	12.8	11.9	13.1	3.6	3.2	3.7
Iowa City .....	1.4	1.5	1.5	9.5	9.5	9.8	24.6	25.4	25.8
Sioux City .....	2.5	2.7	2.7	14.9	14.7	14.9	6.5	6.8	6.7
Waterloo-Cedar Falls .....	2.9	3.0	3.0	15.8	15.2	15.8	12.9	11.3	13.4
<b>Kansas</b> .....	58.4	59.9	59.3	236.8	242.2	243.4	212.3	202.3	213.6
Lawrence .....	1.5	1.6	1.6	7.4	7.7	7.8	12.1	12.1	12.2
Topeka .....	6.6	6.5	6.5	21.9	22.6	22.4	21.8	20.8	21.2
Wichita .....	10.9	11.2	11.1	60.1	59.2	59.6	27.7	24.8	27.2
<b>Kentucky</b> .....	61.3	62.5	61.7	318.8	330.3	330.3	258.3	256.0	266.1
Lexington-Fayette .....	9.4	9.5	9.4	49.4	51.8	52.4	41.5	43.9	44.0
Louisville .....	27.4	27.3	27.2	122.2	128.7	128.3	62.0	64.3	65.0
Owensboro .....	1.5	1.5	1.5	8.5	8.7	8.6	5.4	5.3	5.8
<b>Louisiana</b> .....	78.3	78.6	78.5	348.0	350.8	354.3	315.8	311.0	316.8
Alexandria .....	2.5	2.4	2.3	11.5	11.8	11.9	12.5	12.2	12.7
Baton Rouge .....	13.1	13.1	13.0	50.3	50.5	50.6	54.4	51.8	54.7
Houma-Thibodaux .....	2.1	2.1	2.1	9.7	10.5	10.7	9.8	10.4	10.1
Lafayette .....	3.2	3.2	3.3	19.4	21.1	21.0	12.5	13.1	13.2
Lake Charles .....	3.1	3.1	3.1	12.9	13.1	13.5	10.5	10.7	10.7
Monroe .....	4.3	4.3	4.2	12.6	12.8	12.9	11.1	11.4	11.0
New Orleans .....	33.3	32.7	32.4	150.1	148.1	151.6	86.1	90.8	87.7
Shreveport .....	6.1	6.2	6.2	32.9	33.0	32.9	25.2	23.1	24.9

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Maine</b> .....	554.7	536.9	537.1	0.2	0.2	0.2	35.5	29.6	29.2
Lewiston-Auburn .....	41.7	40.9	41.7	(?)	(?)	(?)	2.3	2.1	2.1
Portland .....	133.5	133.1	133.5	(?)	(?)	(?)	8.7	8.2	8.1
<b>Maryland</b> .....	2,153.2	2,169.9	2,173.6	1.7	1.7	1.7	166.9	169.7	168.3
Baltimore MSA .....	1,147.0	1,150.6	1,153.8	.3	.3	.3	80.4	78.9	78.1
Baltimore City .....	481.6	481.6	482.4	(?)	(?)	(?)	21.4	20.6	20.2
Suburban Maryland-D.C. ....	777.2	779.2	785.5	(?)	(?)	(?)	73.6	73.0	72.8
<b>Massachusetts</b> .....	3,107.5	3,010.7	3,013.2	1.5	1.5	1.5	132.9	110.2	108.3
Boston .....	1,724.6	1,680.5	1,683.8	.7	.8	.8	67.4	53.7	53.2
Brockton .....	73.9	72.3	72.6	(?)	(?)	(?)	3.7	2.9	2.9
Fall River .....	57.5	54.2	55.5	(?)	(?)	(?)	2.6	2.4	2.4
Fitchburg-Leominster .....	41.4	38.7	39.2	(?)	(?)	(?)	2.2	1.7	1.7
Lawrence-Haverhill .....	164.6	162.3	163.2	(?)	(?)	(?)	7.5	6.6	6.5
Lowell .....	104.9	99.3	100.3	(?)	(?)	(?)	5.0	4.6	4.4
New Bedford .....	68.3	66.2	65.5	(?)	(?)	(?)	3.1	2.7	2.6
Pittsfield .....	42.4	43.0	42.3	.1	.1	.1	2.3	1.9	1.8
Springfield .....	242.3	234.0	236.4	.2	.2	.2	9.3	7.9	8.1
Worcester .....	202.9	198.7	200.8	.2	.3	.3	9.2	8.3	8.2
<b>Michigan</b> .....	3,939.9	3,882.5	3,918.7	10.8	8.9	8.7	151.1	144.9	145.2
Ann Arbor .....	171.2	171.0	176.9	(?)	(?)	(?)	6.3	5.8	5.8
Battle Creek .....	60.2	60.8	61.2	(?)	(?)	(?)	2.7	2.8	2.9
Benton Harbor .....	66.2	67.0	67.3	(?)	(?)	(?)	1.9	1.9	1.8
Detroit .....	1,950.7	1,917.6	1,937.8	1.2	1.1	1.2	70.9	63.0	63.0
Flint .....	168.1	166.9	169.6	(?)	(?)	(?)	5.6	6.2	6.2
Grand Rapids .....	347.7	348.4	352.6	(?)	(?)	(?)	17.3	17.7	17.3
Jackson .....	54.7	54.7	54.5	(?)	(?)	(?)	2.1	2.7	2.6
Kalamazoo .....	112.9	110.1	114.5	(?)	(?)	(?)	4.5	4.3	4.3
Lansing-East Lansing .....	208.7	208.9	211.1	(?)	(?)	(?)	7.2	6.1	5.8
Muskegon .....	59.4	59.1	59.2	(?)	(?)	(?)	2.6	2.7	2.6
Saginaw-Bay City-Midland .....	163.2	164.4	164.6	(?)	(?)	(?)	9.2	9.2	9.2
<b>Minnesota</b> .....	2,119.3	2,139.6	2,152.1	8.1	8.8	8.7	90.8	92.7	91.0
Duluth .....	97.0	97.1	96.5	5.4	5.7	5.6	4.2	3.8	3.6
Minneapolis-St. Paul .....	1,366.0	1,379.8	1,384.9	(?)	(?)	(?)	57.8	57.9	56.9
Rochester .....	65.2	65.2	65.9	(?)	(?)	(?)	2.6	2.3	2.4
St. Cloud .....	78.5	79.3	81.7	(?)	(?)	(?)	4.6	4.8	4.7
<b>Mississippi</b> .....	933.6	923.5	941.0	6.0	6.6	6.5	39.1	35.4	35.8
Jackson .....	186.8	187.1	190.1	.7	.7	.7	7.9	7.8	7.7
<b>Missouri</b> .....	2,335.0	2,321.4	2,345.3	5.3	5.4	5.3	103.7	105.2	103.3
Kansas City .....	784.6	793.7	797.6	(?)	(?)	(?)	34.5	35.5	35.4
St. Louis .....	1,186.5	1,183.1	1,191.8	(?)	(?)	(?)	65.9	63.1	60.7
Springfield .....	118.4	118.3	121.1	(?)	(?)	(?)	5.0	4.8	4.7
<b>Montana</b> .....	297.4	297.7	300.1	6.4	6.7	6.6	11.9	11.6	11.5
<b>Nebraska</b> .....	709.0	720.7	727.1	1.6	1.7	1.7	24.6	27.0	25.9
Lincoln .....	120.3	120.6	122.7	(?)	(?)	(?)	4.0	4.5	4.4
Omaha .....	322.8	329.5	330.4	(?)	(?)	(?)	12.0	13.3	13.0
<b>Nevada</b> .....	599.7	632.5	640.5	14.1	15.8	15.6	49.9	53.0	53.7
Las Vegas .....	352.1	377.9	383.1	.3	.3	.3	34.8	36.4	36.7
Reno .....	145.0	147.1	148.3	1.7	1.6	1.6	8.0	8.3	8.4
<b>New Hampshire</b> .....	529.0	507.1	514.0	.4	.5	.5	32.8	26.9	26.0
Manchester .....	87.6	81.8	83.4	(?)	(?)	(?)	5.9	4.5	4.3
Nashua .....	93.5	86.9	88.0	(?)	(?)	(?)	4.0	2.6	2.5
Portsmouth-Dover-Rochester .....	115.5	107.2	109.4	(?)	(?)	(?)	5.7	4.7	4.5
<b>New Jersey</b> .....	3,719.1	3,743.1	3,715.6	2.6	2.5	2.4	174.8	160.5	156.1
Atlantic City .....	177.0	195.7	184.6	(?)	(?)	(?)	9.8	9.3	8.9
Bergen-Passaic .....	674.0	671.8	673.5	(?)	(?)	(?)	33.1	31.8	31.3
Camden .....	452.6	460.9	461.1	(?)	(?)	(?)	26.4	26.4	26.0
Jersey City .....	254.3	252.2	252.4	(?)	(?)	(?)	7.3	6.9	6.7
Middlesex-Somerset-Hunterdon .....	542.6	541.2	537.8	.7	.7	.7	24.6	23.2	23.1
Monmouth-Ocean .....	340.4	356.2	344.5	(?)	(?)	(?)	22.0	18.3	17.9
Newark .....	976.0	982.0	980.5	.8	.7	.7	40.3	38.9	38.7
Trenton .....	197.5	196.9	197.8	(?)	(?)	(?)	5.7	5.2	5.1
Vineland-Millville-Bridgeton .....	59.7	60.0	60.7	.4	.4	.4	2.6	2.5	2.5

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>Maine</b> .....	107.6	107.5	105.6	21.4	22.5	22.7	143.0	137.3	133.6
Lewiston-Auburn .....	9.8	9.6	9.4	1.4	1.4	1.4	11.1	10.8	11.1
Portland .....	16.7	17.3	16.8	4.7	5.5	5.4	41.3	40.8	40.4
<b>Maryland</b> .....	209.0	204.4	203.6	101.0	102.6	102.4	541.3	548.8	544.6
Baltimore MSA .....	130.5	127.2	127.2	56.2	57.2	57.2	280.8	281.9	281.2
Baltimore City .....	45.5	44.8	44.7	28.4	28.7	28.6	96.7	95.3	95.5
Suburban Maryland-D.C. ....	38.6	37.7	37.3	31.3	31.7	31.6	198.5	201.9	200.7
<b>Massachusetts</b> .....	557.3	524.2	522.8	121.3	126.5	130.0	747.0	720.7	720.0
Boston .....	256.9	242.7	242.1	70.2	75.6	76.9	389.1	376.6	376.4
Brockton .....	9.9	9.2	9.2	4.2	4.5	4.6	24.4	23.7	23.8
Fall River .....	15.4	13.7	14.4	1.7	1.9	1.9	15.8	14.8	14.7
Fitchburg-Leominster .....	12.3	11.7	11.7	1.3	1.2	1.4	10.2	9.2	9.3
Lawrence-Haverhill .....	47.4	45.3	45.3	6.2	5.7	6.2	37.7	37.3	37.3
Lowell .....	34.3	31.4	31.1	4.6	4.5	4.9	22.5	21.4	21.6
New Bedford .....	17.9	16.8	16.7	2.7	2.3	2.5	17.0	16.8	16.9
Pittsfield .....	10.6	10.6	10.5	1.2	1.4	1.4	10.1	10.1	10.1
Springfield .....	47.4	46.0	45.8	9.4	9.7	10.0	60.5	58.3	58.6
Worcester .....	44.6	43.5	43.4	8.5	9.2	9.4	49.3	49.5	49.7
<b>Michigan</b> .....	971.7	935.5	943.8	153.4	156.2	155.8	930.6	937.4	927.8
Ann Arbor .....	37.0	38.1	38.5	4.9	5.1	5.1	30.4	30.0	30.2
Battle Creek .....	16.9	16.4	16.4	1.6	1.6	1.6	12.0	12.2	12.2
Benton Harbor .....	21.2	20.9	21.0	2.6	2.7	2.7	14.8	15.0	14.8
Detroit .....	462.7	437.3	445.3	87.5	88.6	88.9	468.2	468.3	465.9
Flint .....	53.2	50.1	51.7	4.5	4.2	4.4	41.9	42.3	42.1
Grand Rapids .....	103.0	103.3	103.0	11.6	11.3	11.3	92.1	93.8	94.5
Jackson .....	13.7	12.7	12.5	4.1	3.9	3.9	13.2	13.1	13.1
Kalamazoo .....	30.6	30.0	30.0	3.2	3.4	3.3	25.9	26.3	26.4
Lansing-East Lansing .....	32.5	32.1	32.1	5.6	5.9	5.9	46.0	45.4	45.2
Muskegon .....	17.0	16.2	16.2	2.3	2.2	2.2	13.8	14.3	14.2
Saginaw-Bay City-Midland .....	45.4	44.8	44.9	6.4	6.1	6.1	39.1	41.2	40.7
<b>Minnesota</b> .....	407.6	405.5	403.1	107.5	108.2	110.4	526.6	534.3	531.3
Duluth .....	8.5	8.8	8.6	6.0	6.0	6.0	24.7	24.7	24.3
Minneapolis-St. Paul .....	265.3	262.5	260.5	75.6	77.3	79.2	336.0	340.5	339.3
Rochester .....	12.1	12.1	12.3	2.0	1.9	1.9	12.8	12.9	12.8
St. Cloud .....	14.5	15.3	15.1	3.9	3.9	3.8	24.1	26.3	26.2
<b>Mississippi</b> .....	245.4	243.0	243.2	46.2	47.2	47.5	199.2	203.4	203.0
Jackson .....	21.5	21.6	21.5	14.1	14.7	14.8	43.7	44.3	44.5
<b>Missouri</b> .....	440.1	432.9	432.9	152.7	150.6	151.7	576.5	578.5	576.5
Kansas City .....	111.4	109.9	110.1	65.2	64.9	65.9	204.7	209.9	209.2
St. Louis .....	225.8	220.0	222.2	77.3	77.8	78.1	287.5	294.3	290.8
Springfield .....	21.3	21.3	21.2	7.5	7.7	7.7	33.8	34.9	35.0
<b>Montana</b> .....	22.6	23.1	23.7	20.4	20.0	20.0	79.9	82.5	80.6
<b>Nebraska</b> .....	95.3	97.4	97.5	46.2	46.9	47.1	183.5	187.1	185.3
Lincoln .....	14.4	14.4	14.6	6.6	6.7	6.8	27.3	27.4	27.7
Omaha .....	35.9	36.6	36.7	24.6	24.7	24.9	82.8	85.4	84.5
<b>Nevada</b> .....	25.7	26.4	26.3	31.4	32.6	32.5	123.0	130.1	131.8
Las Vegas .....	10.3	10.8	10.8	18.3	19.4	19.6	74.5	79.8	80.4
Reno .....	8.6	8.6	8.5	9.4	9.1	9.1	33.2	34.3	34.5
<b>New Hampshire</b> .....	113.1	108.4	107.2	15.7	17.4	18.4	135.8	132.6	128.4
Manchester .....	11.6	11.0	10.9	4.9	4.8	4.7	22.6	21.1	21.1
Nashua .....	34.0	32.3	32.2	3.2	3.2	3.1	23.1	21.6	21.1
Portsmouth-Dover-Rochester .....	21.3	19.0	18.8	2.7	2.7	2.6	28.6	28.0	27.0
<b>New Jersey</b> .....	657.3	633.9	634.9	243.6	240.3	244.5	890.8	903.2	895.5
Atlantic City .....	8.7	8.4	8.5	6.8	6.9	6.6	41.1	48.3	42.0
Bergen-Passaic .....	150.2	145.3	146.0	29.8	29.2	29.2	194.0	191.9	193.2
Camden .....	73.1	69.9	69.9	19.6	19.9	20.1	122.4	125.5	126.2
Jersey City .....	45.0	43.1	43.7	34.1	33.4	33.9	61.9	60.7	60.5
Middlesex-Somerset-Hunterdon .....	115.1	111.2	111.3	41.8	41.8	42.2	130.8	129.9	128.8
Monmouth-Ocean .....	27.9	27.0	27.1	17.5	17.3	17.4	91.2	101.3	96.1
Newark .....	175.3	169.7	170.0	81.7	83.9	84.3	197.4	195.3	195.8
Trenton .....	28.8	27.5	27.5	6.7	6.5	6.8	31.1	31.8	31.7
Vineland-Millville-Bridgeton .....	17.5	17.4	17.6	2.2	2.2	2.2	11.4	11.3	11.5

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Maine</b> .....	25.6	25.6	25.2	126.3	130.8	126.9	95.1	83.4	93.7
Lewiston-Auburn .....	2.4	2.3	2.3	10.5	11.1	11.2	4.2	3.6	4.2
Portland .....	11.8	11.4	11.4	34.5	36.4	35.9	15.8	13.5	15.5
<b>Maryland</b> .....	132.5	134.0	132.4	596.8	611.4	605.3	404.0	397.3	415.3
Baltimore MSA .....	77.8	77.6	76.9	317.2	322.1	322.6	203.8	205.4	210.3
Baltimore City .....	46.1	45.8	45.7	152.0	152.4	152.4	91.5	94.0	95.3
Suburban Maryland-D.C. ....	45.9	46.6	45.8	227.7	231.9	228.8	161.6	156.4	168.5
<b>Massachusetts</b> .....	216.9	220.1	216.1	932.0	933.3	925.5	398.6	374.2	389.0
Boston .....	147.0	148.0	146.0	590.7	594.3	592.2	202.6	188.8	196.2
Brockton .....	3.6	3.5	3.5	16.1	16.4	16.5	12.0	12.1	12.1
Fall River .....	3.5	3.6	3.5	11.3	11.5	11.4	7.2	6.3	7.2
Fitchburg-Leominster .....	1.5	1.5	1.5	9.1	9.2	9.1	4.8	4.2	4.5
Lawrence-Haverhill .....	6.4	6.5	6.3	38.2	41.0	40.7	21.2	19.9	20.9
Lowell .....	3.8	3.4	3.4	21.9	22.0	22.1	12.8	12.0	12.8
New Bedford .....	2.5	2.5	2.5	15.2	16.1	15.2	9.9	9.0	9.1
Pittsfield .....	2.0	2.0	1.9	11.6	12.7	12.2	4.5	4.3	4.4
Springfield .....	15.6	14.9	14.7	60.4	61.5	61.5	39.5	35.5	37.5
Worcester .....	14.2	14.2	14.0	52.8	51.6	52.6	24.1	22.1	23.2
<b>Michigan</b> .....	190.2	194.8	192.9	912.0	927.4	925.3	620.1	577.4	619.3
Ann Arbor .....	4.6	4.8	4.5	37.3	39.6	39.8	50.7	47.5	53.0
Battle Creek .....	3.3	3.5	3.4	12.2	13.3	13.3	11.6	11.0	11.5
Benton Harbor .....	2.6	2.7	2.7	14.7	15.5	15.6	8.6	8.2	8.6
Detroit .....	111.7	114.9	114.3	510.9	522.1	522.0	237.6	222.3	237.1
Flint .....	6.0	6.4	6.4	33.8	36.1	35.9	23.2	21.6	22.9
Grand Rapids .....	15.7	16.0	15.9	75.4	75.4	77.2	32.7	30.9	33.5
Jackson .....	1.8	1.8	1.7	10.2	10.6	10.4	9.7	9.8	10.1
Kalamazoo .....	5.0	5.2	5.3	25.4	26.0	25.9	18.4	15.0	19.3
Lansing-East Lansing .....	12.9	12.9	12.9	43.3	43.5	44.1	61.1	63.1	65.0
Muskegon .....	1.5	1.5	1.5	12.6	12.8	12.7	9.6	9.3	9.8
Saginaw-Bay City-Midland .....	6.3	6.3	6.2	35.9	37.7	37.7	20.9	19.1	19.9
<b>Minnesota</b> .....	121.6	124.9	123.8	546.0	561.7	564.5	311.1	303.5	319.3
Duluth .....	3.3	3.3	3.2	23.7	24.4	24.2	21.2	20.4	21.0
Minneapolis-St. Paul .....	93.7	96.0	95.0	365.5	374.9	377.2	171.4	170.2	176.3
Rochester .....	1.6	1.7	1.7	27.8	28.8	28.6	8.3	5.5	6.2
St. Cloud .....	2.4	2.4	2.4	16.3	16.7	17.3	12.7	9.9	12.2
<b>Mississippi</b> .....	39.1	38.8	38.5	154.9	157.1	159.4	203.6	192.2	207.1
Jackson .....	14.8	14.5	14.5	42.3	43.7	43.7	41.9	39.6	42.9
<b>Missouri</b> .....	135.3	136.4	134.6	561.5	574.4	573.7	359.9	336.0	367.3
Kansas City .....	59.1	59.6	59.1	192.4	197.2	195.7	117.2	116.7	122.2
St. Louis .....	74.8	74.9	73.9	310.6	320.9	320.5	144.5	132.1	145.6
Springfield .....	5.5	5.6	5.6	30.5	30.6	31.6	14.8	13.4	15.3
<b>Montana</b> .....	13.3	13.8	13.6	72.6	75.7	74.7	70.3	64.3	69.4
<b>Nebraska</b> .....	48.4	48.3	48.0	168.5	173.4	174.5	140.9	138.9	147.1
Lincoln .....	8.5	8.4	8.4	27.7	28.2	28.6	31.8	31.0	32.2
Omaha .....	29.2	29.3	29.1	91.7	95.4	95.2	46.6	44.8	47.0
<b>Nevada</b> .....	26.1	27.7	27.9	258.4	276.4	275.9	71.1	70.5	76.8
Las Vegas .....	16.6	17.5	17.5	161.1	178.4	178.3	36.2	35.3	39.5
Reno .....	6.9	7.2	7.2	60.0	61.1	60.8	17.2	16.9	18.2
<b>New Hampshire</b> .....	33.0	32.4	31.8	126.9	127.4	128.2	71.3	61.5	73.5
Manchester .....	8.8	8.8	8.9	25.2	23.5	24.6	8.6	8.1	8.9
Nashua .....	3.4	3.2	3.2	18.2	17.8	17.8	7.6	6.2	8.1
Portsmouth-Dover-Rochester .....	7.3	7.2	7.0	24.4	24.5	23.6	25.5	21.1	25.9
<b>New Jersey</b> .....	242.6	245.1	240.2	964.0	1,004.4	990.4	543.4	553.2	551.6
Atlantic City .....	6.8	7.2	7.0	77.1	88.8	85.0	26.7	26.8	26.6
Bergen-Passaic .....	39.2	39.5	38.7	160.8	166.8	166.9	66.9	67.3	68.2
Camden .....	25.2	25.1	24.6	113.9	121.2	120.8	72.0	72.9	73.3
Jersey City .....	16.4	16.3	16.3	50.1	51.1	51.4	39.5	40.7	39.9
Middlesex-Somerset-Hunterdon .....	39.1	39.0	38.3	119.0	122.4	120.5	71.5	73.0	72.9
Monmouth-Ocean .....	19.4	19.7	19.3	99.9	108.4	103.7	62.5	64.2	63.0
Newark .....	80.5	79.9	78.9	263.4	274.3	272.6	136.6	139.3	139.5
Trenton .....	10.5	11.0	10.8	59.0	58.7	59.6	55.7	56.2	56.3
Vineland-Millville-Bridgeton .....	3.8	3.9	3.9	10.6	10.6	10.7	11.2	11.7	11.9

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>New Mexico</b> .....	569.7	565.9	571.8	14.8	14.4	14.6	31.6	29.5	29.1
Albuquerque .....	243.7	241.5	244.8	(?)	(?)	(?)	14.2	12.3	12.2
Las Cruces .....	42.8	41.8	43.7	(?)	(?)	(?)	2.4	2.5	2.4
Santa Fe .....	57.3	60.3	59.2	(?)	(?)	(?)	2.8	2.8	2.8
<b>New York</b> .....	8,259.7	8,253.3	8,261.8	6.0	6.0	6.0	357.2	326.0	322.1
Albany-Schenectady-Troy .....	427.2	436.0	435.3	.6	.8	.8	22.9	22.6	22.1
Binghamton .....	121.6	119.4	121.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	5.8	5.7
Buffalo .....	461.8	463.8	467.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.2	19.5	19.2
Elmira .....	41.3	42.0	41.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.7	1.7
Glens Falls .....	48.7	52.5	48.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	3.2	2.9
Nassau-Suffolk .....	1,136.9	1,127.3	1,130.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	60.8	55.3	55.1
New York PMSA .....	4,116.5	4,114.6	4,112.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	157.7	143.9	143.6
New York City .....	3,587.9	3,580.4	3,580.8	.4	.2	.2	124.0	111.8	111.7
Niagara Falls .....	85.8	87.1	87.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.8	4.8
Orange County .....	108.3	106.6	106.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.0	4.9
Poughkeepsie .....	120.0	120.0	121.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	6.5	6.3
Rochester .....	489.7	487.5	491.3	.8	.7	.7	21.1	21.3	20.9
Rockland County .....	102.2	104.0	102.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	5.3	5.1
Syracuse .....	314.6	314.9	317.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.1	17.9	17.7
Utica-Rome .....	128.5	128.9	128.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	4.6	4.4
Westchester County .....	407.2	410.5	410.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.1	24.6	24.6
<b>North Carolina</b> .....	3,095.9	3,078.9	3,112.2	4.9	5.0	5.0	167.3	165.6	163.3
Asheville .....	86.3	89.5	91.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.5	4.5
Charlotte-Gastonia-Rock Hill .....	621.5	628.2	635.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	37.0	38.5	38.2
Greensboro-Winston-Salem-High Point .....	486.8	477.0	485.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.9	25.2	24.8
Raleigh-Durham .....	424.9	425.6	428.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.4	22.2	21.9
<b>North Dakota</b> .....	264.0	264.9	269.1	4.2	4.5	4.5	12.0	12.2	11.9
Bismarck .....	39.7	40.5	41.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.3	2.3
Fargo-Moorhead .....	75.4	75.7	77.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.9	4.7
Grand Forks .....	30.9	30.9	31.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.6
<b>Ohio</b> .....	4,877.8	4,938.2	4,981.2	18.5	18.4	18.3	211.8	219.9	219.3
Akron .....	289.1	291.2	297.4	.7	.6	.6	11.0	11.5	11.5
Canton .....	168.3	168.4	169.6	.8	.8	.8	7.8	8.3	8.3
Cincinnati .....	738.0	756.1	761.4	.5	.5	.5	36.4	38.2	37.8
Cleveland .....	945.9	960.2	965.6	.9	.9	.9	36.1	37.6	37.6
Columbus .....	706.2	726.4	730.7	.9	.9	.9	31.4	33.0	32.8
Dayton-Springfield .....	454.0	456.7	462.1	.5	.5	.5	18.9	19.1	18.9
Toledo .....	296.6	294.8	301.4	.3	.3	.3	12.9	13.6	13.5
Youngstown-Warren .....	201.0	201.1	204.0	.4	.5	.5	8.7	9.0	9.1
<b>Oklahoma</b> .....	1,153.7	1,156.5	1,170.9	43.2	45.7	45.2	36.1	37.1	37.1
Enid .....	21.4	21.0	21.2	.9	.9	.9	.6	.6	.6
Lawton .....	34.8	34.6	35.1	.3	.3	.3	1.1	1.0	1.0
Oklahoma City .....	423.2	423.1	432.0	11.0	10.2	10.3	11.9	13.4	13.1
Tulsa .....	307.0	317.5	317.6	12.9	12.2	12.2	10.7	11.8	11.6
<b>Oregon</b> .....	1,231.0	1,259.4	1,263.0	1.6	1.5	1.6	49.7	53.5	53.7
Eugene-Springfield .....	115.7	117.6	119.4	.2	.2	.2	4.5	4.7	4.7
Portland .....	621.7	641.4	641.8	.4	.4	.4	27.9	28.2	28.2
Salem .....	109.2	112.2	111.7	.1	.1	.1	4.6	4.9	4.7
<b>Pennsylvania</b> .....	5,133.5	5,117.2	5,145.2	27.9	27.2	27.5	252.1	252.8	249.2
Allentown-Bethlehem .....	281.3	280.4	282.4	.6	.6	.6	14.1	13.8	13.4
Altoona .....	52.4	53.0	53.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.7	2.7
Beaver County .....	49.9	49.2	49.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.4	2.4
Erie .....	118.1	120.0	120.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	4.5	4.3
Harrisburg-Lebanon-Carlisle .....	312.7	322.4	321.0	.4	.4	.5	15.0	16.4	16.0
Johnstown .....	79.5	80.5	81.4	2.6	2.6	2.5	3.3	3.3	3.3
Lancaster .....	188.6	189.2	189.9	.4	.5	.5	12.4	13.1	12.9
Philadelphia PMSA .....	2,184.8	2,190.3	2,196.0	1.1	1.1	1.1	106.1	106.6	105.1
Philadelphia City .....	765.5	759.7	762.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.3	17.8	17.8
Pittsburgh .....	902.2	909.7	915.8	4.6	4.5	4.6	46.5	45.0	44.7

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>New Mexico</b> .....	43.5	44.0	43.9	29.3	27.9	28.6	136.9	136.3	135.6
Albuquerque .....	21.3	21.4	21.3	12.7	12.1	12.6	61.2	61.4	61.1
Las Cruces .....	3.7	3.5	3.6	1.6	1.3	1.5	9.0	9.3	9.3
Santa Fe .....	1.7	1.8	1.7	1.0	.9	1.0	11.1	11.8	11.4
<b>New York</b> .....	1,196.0	1,149.5	1,154.0	385.3	420.5	427.2	1,744.3	1,713.8	1,708.0
Albany-Schenectady-Troy .....	46.5	47.2	47.2	15.9	17.4	17.8	92.6	93.4	93.1
Binghamton .....	35.5	33.9	33.9	4.1	4.6	4.6	25.7	26.3	26.2
Buffalo .....	78.4	75.5	76.0	21.0	22.0	22.2	118.2	119.4	119.8
Elmira .....	8.9	8.6	8.4	1.2	1.4	1.4	10.7	11.0	10.8
Glens Falls .....	10.4	9.9	9.7	1.4	2.0	1.6	12.1	13.4	12.3
Nassau-Suffolk .....	161.0	152.1	152.1	44.3	49.3	52.2	303.3	300.4	298.2
New York PMSA .....	440.7	418.9	422.1	223.0	243.0	246.6	753.0	734.7	735.2
New York City .....	363.7	346.7	348.4	200.5	218.0	221.1	631.0	613.4	614.0
Niagara Falls .....	24.2	23.4	23.6	4.1	4.1	4.3	20.8	21.5	21.5
Orange County .....	14.4	13.1	13.2	6.6	6.9	7.0	30.2	29.7	29.3
Poughkeepsie .....	30.1	29.5	29.3	3.3	3.9	3.9	22.3	22.3	22.1
Rochester .....	137.9	132.8	132.9	15.4	15.4	15.6	106.2	108.2	107.6
Rockland County .....	15.0	14.3	14.2	4.9	5.0	5.2	24.0	23.6	23.4
Syracuse .....	53.5	52.2	52.0	18.0	19.2	19.3	76.0	77.8	76.2
Utica-Rome .....	24.1	23.5	23.6	3.7	4.4	4.5	28.5	29.1	28.8
Westchester County .....	59.9	55.8	57.5	17.0	19.3	19.7	93.5	93.2	93.3
<b>North Carolina</b> .....	870.8	851.7	850.3	153.7	156.8	156.9	720.0	733.9	731.8
Asheville .....	20.0	20.0	20.1	4.2	4.3	4.3	20.8	22.2	22.3
Charlotte-Gastonia-Rock Hill .....	155.0	153.3	152.9	50.2	51.3	51.4	154.4	158.2	158.3
Greensboro-Winston-Salem-High Point .....	149.1	145.5	145.2	26.2	26.0	25.9	112.1	112.0	112.1
Raleigh-Durham .....	63.4	63.4	63.0	20.6	21.1	21.0	90.9	90.8	91.2
<b>North Dakota</b> .....	16.6	17.1	17.8	17.1	17.3	17.4	70.3	70.6	70.6
Bismarck .....	2.2	2.3	2.3	2.8	3.1	3.1	10.4	10.5	10.4
Fargo-Moorhead .....	5.5	5.8	5.9	4.7	4.7	4.7	21.9	21.7	21.9
Grand Forks .....	1.5	1.1	1.4	1.6	1.7	1.7	9.2	9.5	9.7
<b>Ohio</b> .....	1,131.4	1,123.6	1,126.9	219.0	221.1	222.2	1,182.7	1,222.8	1,219.6
Akron .....	68.1	67.9	68.4	13.3	13.7	13.7	71.3	73.4	73.7
Canton .....	46.0	45.3	45.8	5.8	5.7	5.7	41.6	42.7	42.6
Cincinnati .....	148.9	148.9	149.8	40.2	41.4	42.1	192.5	202.3	201.8
Cleveland .....	207.7	205.6	207.6	42.7	43.4	43.6	227.8	236.3	235.7
Columbus .....	106.1	105.5	106.0	31.1	31.9	32.1	182.2	191.1	191.4
Dayton-Springfield .....	105.0	104.7	104.9	17.8	18.8	18.8	101.8	104.1	104.0
Toledo .....	61.3	60.0	60.8	14.6	14.7	14.8	75.1	77.2	76.9
Youngstown-Warren .....	50.2	48.4	49.3	7.9	8.0	8.1	53.7	55.9	55.5
<b>Oklahoma</b> .....	162.7	161.6	165.6	64.8	66.9	66.4	274.9	282.6	280.3
Enid .....	1.5	1.5	1.5	2.2	2.1	2.1	6.3	6.3	6.2
Lawton .....	3.5	3.6	3.5	1.9	1.7	1.7	8.6	8.7	8.9
Oklahoma City .....	48.7	44.6	48.5	21.0	21.2	21.1	103.1	105.8	105.2
Tulsa .....	52.6	54.8	54.8	24.4	25.4	25.3	72.4	75.7	75.4
<b>Oregon</b> .....	226.9	230.3	226.7	64.2	64.6	64.3	319.4	333.8	329.7
Eugene-Springfield .....	21.6	21.5	21.2	4.6	4.4	4.5	29.6	31.1	31.0
Portland .....	103.4	105.9	104.4	37.7	37.8	37.7	166.4	177.4	173.8
Salem .....	18.9	20.9	19.4	2.9	2.7	2.8	24.3	23.9	24.4
<b>Pennsylvania</b> .....	1,047.8	1,035.1	1,030.1	255.9	249.9	256.3	1,174.4	1,177.6	1,174.8
Allentown-Bethlehem .....	75.6	74.7	74.5	14.4	13.9	14.1	61.7	62.4	62.6
Altoona .....	10.5	10.1	10.0	4.8	4.5	4.6	14.0	14.5	14.4
Beaver County .....	9.0	9.1	9.1	5.2	5.0	5.1	11.7	11.8	11.7
Erie .....	35.9	36.7	36.6	4.4	4.5	4.5	25.5	26.0	25.8
Harrisburg-Lebanon-Carlisle .....	52.1	51.2	51.0	19.2	19.1	19.5	70.8	72.7	72.2
Johnstown .....	13.8	14.8	14.8	5.2	4.7	5.1	17.5	17.7	17.7
Lancaster .....	58.8	57.5	56.8	7.5	7.3	7.6	47.0	47.9	47.8
Philadelphia PMSA .....	362.4	353.8	353.7	100.2	99.5	101.3	506.6	504.5	505.8
Philadelphia City .....	86.9	82.3	83.8	41.5	41.3	41.3	146.6	146.4	146.5
Pittsburgh .....	123.3	124.3	123.5	49.2	49.7	50.5	225.8	228.8	228.2

See footnotes at end of table.



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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>New Mexico</b> .....	26.7	26.6	26.4	140.5	145.0	143.5	146.4	142.2	150.1
Albuquerque .....	14.3	14.2	14.1	71.0	72.2	73.0	48.9	47.8	50.4
Las Cruces .....	1.7	1.7	1.7	7.6	7.8	7.8	16.7	15.6	17.3
Santa Fe .....	2.1	2.1	2.1	15.3	16.6	15.8	23.2	24.2	24.3
<b>New York</b> .....	796.0	792.9	783.8	2,362.5	2,423.5	2,426.2	1,412.4	1,421.1	1,434.6
Albany-Schenectady-Troy .....	25.0	25.7	25.4	113.4	118.1	116.5	110.5	110.9	112.4
Binghamton .....	4.1	4.3	4.2	25.2	25.4	25.2	20.8	19.3	21.7
Buffalo .....	28.5	28.7	28.5	124.0	127.9	129.3	72.4	70.7	72.7
Elmira .....	1.4	1.5	1.5	10.4	11.1	11.0	6.8	6.8	7.0
Glens Falls .....	1.7	1.7	1.6	11.4	13.4	11.5	9.0	8.9	9.2
Nassau-Suffolk .....	84.1	85.1	84.3	308.0	316.8	314.6	175.3	166.2	173.8
New York PMSA .....	567.1	559.4	554.7	1,304.9	1,326.4	1,334.3	670.1	688.4	675.5
New York City .....	530.4	522.9	518.6	1,146.9	1,160.0	1,171.3	590.9	607.3	595.4
Niagara Falls .....	2.0	2.1	2.1	18.0	18.4	18.4	12.5	12.9	12.7
Orange County .....	4.8	5.0	4.8	23.7	24.3	24.2	23.1	22.6	23.3
Poughkeepsie .....	4.9	5.0	4.9	28.7	29.5	29.6	23.6	23.3	24.9
Rochester .....	23.1	23.8	23.2	122.7	124.0	126.0	62.5	61.3	64.3
Rockland County .....	5.5	5.5	5.5	27.2	29.6	27.8	20.5	20.7	20.9
Syracuse .....	20.2	20.5	20.3	78.4	76.7	80.9	50.3	50.6	50.9
Utica-Rome .....	7.4	7.8	7.7	28.5	29.2	29.4	31.2	30.3	30.3
Westchester County .....	30.4	30.2	29.9	125.4	131.0	129.9	54.9	56.4	55.3
<b>North Carolina</b> .....	133.7	135.1	134.0	571.2	592.2	589.9	474.3	438.6	481.0
Asheville .....	2.8	2.9	2.9	21.0	22.9	22.8	12.7	12.7	14.1
Charlotte-Gastonia-Rock Hill .....	38.1	38.7	38.5	116.8	122.7	124.0	70.0	65.5	72.2
Greensboro-Winston-Salem-High Point .....	23.7	23.5	23.3	97.9	99.3	99.8	52.9	45.5	54.3
Raleigh-Durham .....	23.7	24.2	24.2	109.7	110.2	111.8	94.2	93.7	95.1
<b>North Dakota</b> .....	12.3	12.6	12.5	67.1	69.5	70.0	64.4	61.1	64.4
Bismarck .....	1.5	1.5	1.5	12.1	12.2	12.5	8.8	8.6	9.0
Fargo-Moorhead .....	4.5	4.6	4.6	20.4	21.4	21.4	14.0	12.6	14.6
Grand Forks .....	1.2	1.2	1.2	7.0	7.2	7.2	8.7	8.5	8.8
<b>Ohio</b> .....	254.9	260.4	258.5	1,165.8	1,202.5	1,208.8	693.6	669.5	707.5
Akron .....	10.7	10.9	10.8	69.2	73.8	73.0	45.0	39.4	45.7
Canton .....	6.9	6.9	6.7	38.7	40.0	40.2	18.8	18.6	19.5
Cincinnati .....	43.0	43.7	43.5	187.4	194.0	194.4	89.0	87.1	91.6
Cleveland .....	57.3	58.7	58.2	257.1	264.0	264.6	116.4	113.9	117.4
Columbus .....	60.4	61.7	61.0	174.4	182.1	183.2	119.6	120.3	123.2
Dayton-Springfield .....	18.0	17.8	17.7	116.1	118.1	119.9	76.0	73.6	77.4
Toledo .....	12.1	12.2	12.1	77.6	79.6	79.9	42.7	37.2	43.2
Youngstown-Warren .....	8.7	8.8	8.7	48.1	48.4	49.2	23.3	22.0	23.5
<b>Oklahoma</b> .....	58.2	55.7	55.4	262.4	265.1	266.4	251.4	241.8	254.5
Enid .....	.9	.9	.9	5.3	5.0	5.2	3.7	3.7	3.8
Lawton .....	1.7	1.8	1.7	6.2	6.6	6.5	11.5	10.9	11.5
Oklahoma City .....	24.6	24.0	23.8	103.8	107.0	109.0	99.1	96.9	101.0
Tulsa .....	16.6	18.1	18.0	80.4	83.2	84.2	37.0	36.3	36.1
<b>Oregon</b> .....	76.0	77.9	78.0	285.9	294.6	295.0	207.3	203.2	214.0
Eugene-Springfield .....	5.6	5.9	6.0	28.3	29.3	29.5	21.3	20.5	22.3
Portland .....	49.9	50.9	51.0	157.0	163.0	163.9	79.0	77.8	82.4
Salem .....	5.5	5.6	5.6	22.7	23.3	23.8	30.2	30.8	30.9
<b>Pennsylvania</b> .....	296.9	299.0	295.7	1,392.6	1,416.0	1,421.4	685.9	659.6	690.2
Allentown-Bethlehem .....	14.3	14.5	14.3	70.9	71.2	71.6	29.7	29.3	31.3
Altoona .....	1.9	1.9	1.9	11.7	12.0	12.2	7.0	7.3	7.5
Beaver County .....	1.7	1.6	1.6	11.8	11.7	11.9	7.8	7.6	7.8
Erie .....	5.6	5.7	5.6	29.0	30.2	30.4	13.7	12.4	13.6
Harrisburg-Lebanon-Carlisle .....	20.1	21.9	21.7	69.2	74.6	73.3	65.9	66.1	66.8
Johnstown .....	4.3	4.4	4.3	20.3	20.7	20.9	12.5	12.3	12.8
Lancaster .....	7.3	7.7	7.6	39.9	41.2	41.3	15.3	14.0	15.4
Philadelphia PMSA .....	159.2	161.5	160.4	651.5	666.9	667.3	297.7	296.4	301.3
Philadelphia City .....	70.0	69.6	69.1	260.3	258.3	261.3	141.9	144.0	142.5
Pittsburgh .....	54.1	55.4	55.1	293.5	301.4	302.7	105.2	100.6	106.5

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	155.8	154.5	157.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.4	8.2
Scranton-Wilkes-Barre .....	307.3	309.5	309.7	0.6	0.6	0.7	15.8	16.3	15.7
Sharon .....	43.4	43.8	44.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.7
State College .....	60.4	58.3	61.3	.4	.3	.3	3.6	3.9	3.8
Williamsport .....	52.3	51.6	52.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	3.0	3.0
York .....	180.4	179.3	180.4	.5	.5	.4	11.3	11.8	11.5
<b>Rhode Island</b> .....	463.6	450.1	451.4	.1	.1	.1	21.3	19.1	18.1
Pawtucket-Woonsocket-Attleboro .....	133.5	130.3	130.7	.2	.2	.2	5.6	4.8	4.6
Providence .....	330.1	324.1	327.6	.1	.1	.1	16.4	15.4	15.2
<b>South Carolina</b> .....	1,520.8	1,547.0	1,562.3	1.8	1.8	1.8	95.7	102.0	102.3
Charleston .....	198.1	207.7	209.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.5	15.3	14.8
Columbia .....	236.7	240.9	246.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.0	16.7	19.0
Greenville-Spartanburg .....	336.6	334.8	342.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	23.5	23.8	23.8
<b>South Dakota</b> .....	280.0	281.1	283.0	2.7	2.9	2.8	11.6	12.3	11.8
Rapid City .....	37.5	38.9	37.7	.3	.3	.3	2.0	2.2	2.2
Sioux Falls .....	71.7	73.7	74.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.9	3.8
<b>Tennessee</b> .....	2,188.3	2,183.9	2,196.1	6.4	6.4	6.3	103.4	102.3	101.4
Chattanooga .....	197.3	198.5	199.3	.8	.8	.8	7.9	8.6	8.7
Johnson City-Kingsport-Bristol .....	166.7	172.7	173.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.0	8.1	7.9
Knoxville .....	269.3	265.3	265.0	1.8	1.9	1.9	16.5	15.1	15.1
Memphis .....	465.0	468.5	473.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.6	20.4	20.4
Nashville .....	494.5	495.5	497.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.8	24.9	24.6
<b>Texas</b> .....	6,839.9	6,920.0	6,947.6	173.5	179.5	179.8	317.9	330.1	326.2
Abilene .....	48.5	47.9	49.4	1.4	1.4	1.6	1.5	1.6	1.7
Amarillo .....	76.8	76.2	77.1	1.2	1.0	1.0	3.5	3.7	3.5
Austin .....	366.2	360.4	371.3	.7	.6	.7	11.2	11.2	11.0
Beaumont-Port Arthur .....	136.2	139.2	140.2	1.5	1.7	1.7	10.3	10.7	10.8
Brazoria .....	62.2	64.7	65.2	2.1	2.1	2.1	8.0	9.5	9.1
Brownsville-Harlingen .....	73.8	75.5	76.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.2	2.2
Bryan-College Station .....	53.2	52.1	53.3	.5	.5	.5	1.7	1.7	1.5
Corpus Christi .....	127.6	129.6	129.8	3.4	3.4	3.5	9.5	10.1	10.1
Dallas .....	1,355.9	1,361.1	1,368.4	17.3	17.5	17.3	47.8	47.1	46.8
El Paso .....	205.1	206.1	205.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.2	8.2	8.0
Ft. Worth-Arlington .....	567.4	580.0	579.2	3.9	4.0	4.0	21.7	21.2	20.9
Galveston-Texas City .....	74.2	76.0	74.9	.5	.6	.6	6.1	6.4	6.2
Houston .....	1,509.7	1,555.7	1,558.5	65.5	69.8	69.4	97.4	103.5	102.2
Killeen-Temple .....	73.6	74.0	73.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.2	3.0
Laredo .....	43.1	44.2	44.5	1.6	1.7	1.7	1.2	1.2	1.2
Longview-Marshall .....	67.5	68.7	68.7	3.4	3.5	3.4	3.1	3.7	3.5
Lubbock .....	96.3	96.8	97.6	.3	.2	.2	3.2	3.5	3.3
McAllen-Edinburg-Mission .....	96.2	98.0	100.3	.9	.9	.9	4.2	4.6	4.4
Midland .....	44.5	44.3	44.8	8.5	8.4	8.6	1.4	1.5	1.4
Odessa .....	42.8	42.6	43.1	5.2	4.8	5.0	2.0	2.1	2.0
San Angelo .....	36.5	35.4	35.9	.5	.6	.6	1.1	1.1	1.1
San Antonio .....	511.7	511.4	518.5	2.2	2.2	2.2	21.5	21.5	21.6
Sherman-Denison .....	37.3	36.4	37.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.7
Texarkana .....	47.1	46.3	46.8	.1	.1	.1	1.7	1.5	1.4
Tyler .....	61.1	61.5	62.1	1.7	1.6	1.6	1.7	1.8	1.7
Victoria .....	28.0	28.1	27.6	1.2	1.5	1.4	1.6	1.9	1.8
Waco .....	80.9	80.0	83.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	3.2	3.1
Wichita Falls .....	50.4	49.8	50.4	1.5	1.4	1.4	1.5	1.6	1.6

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	48.6	45.7	46.7	6.7	6.4	6.7	34.8	35.9	36.0
Scranton-Wilkes-Barre .....	70.9	70.0	70.0	16.5	16.3	16.8	73.0	73.8	73.8
Sharon .....	11.4	11.8	11.9	1.9	2.0	2.0	10.5	10.5	10.5
State College .....	8.0	7.8	7.7	1.6	1.7	1.7	11.8	11.6	12.0
Williamsport .....	16.1	14.8	15.0	1.8	1.9	2.0	11.8	12.0	11.9
York .....	60.2	58.2	57.9	7.5	6.9	7.2	43.2	44.8	44.7
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	108.2	104.4	104.3	15.7	15.8	15.7	108.3	106.2	105.0
Providence .....	49.2	47.8	47.8	4.0	4.0	3.9	34.2	34.4	34.4
	70.1	68.2	68.5	10.9	11.4	11.3	73.4	72.2	71.7
<b>South Carolina</b>									
Charleston .....	391.4	384.8	382.6	64.3	65.7	65.9	345.1	354.5	351.4
Columbia .....	20.5	21.4	21.3	10.1	10.2	10.4	50.3	53.7	53.1
Greenville-Spartanburg .....	28.3	28.4	28.4	11.0	11.4	11.4	54.2	54.2	54.2
	103.6	101.0	100.9	13.3	13.5	13.6	78.4	80.8	81.2
<b>South Dakota</b>									
Rapid City .....	31.7	32.7	32.3	13.8	13.4	13.6	75.0	77.0	75.9
Sioux Falls .....	3.7	3.9	3.8	2.2	2.0	2.0	11.3	12.1	11.1
	8.2	8.7	8.5	5.2	5.1	5.1	19.8	21.0	21.2
<b>Tennessee</b>									
Chattanooga .....	528.1	521.0	519.8	116.5	116.6	116.7	513.3	515.2	515.6
Johnson City-Kingsport-Bristol .....	47.1	46.9	46.3	7.9	8.1	8.1	47.4	46.3	46.3
Knoxville .....	54.6	54.3	53.9	6.2	6.2	6.3	38.1	39.5	39.6
Memphis .....	51.9	49.5	49.6	10.5	11.1	11.1	70.5	69.1	68.0
Nashville .....	62.8	62.2	62.0	47.4	47.4	47.7	125.9	127.6	127.8
	89.2	89.5	88.8	26.6	26.7	26.9	120.7	119.7	120.2
<b>Texas</b>									
Abilene .....	968.7	966.1	964.9	404.7	419.8	419.4	1,689.6	1,712.0	1,708.7
Amarillo .....	4.8	4.4	4.5	2.6	2.7	2.7	13.1	13.4	13.4
Austin .....	8.5	8.6	8.5	5.7	5.6	5.6	22.3	21.9	21.9
Beaumont-Port Arthur .....	45.0	45.8	45.8	11.2	11.1	11.2	79.4	77.9	78.1
Brazoria .....	24.8	25.1	25.1	9.5	9.6	9.7	32.3	32.9	32.7
Brownsville-Harlingen .....	16.0	16.5	16.6	2.6	2.6	2.6	11.7	12.0	11.9
Bryan-College Station .....	10.6	10.9	11.0	3.2	3.4	3.3	20.0	20.6	20.4
Corpus Christi .....	3.8	3.8	3.7	1.4	1.5	1.5	11.8	11.5	12.3
Dallas .....	11.3	12.0	11.9	6.8	6.6	6.6	32.0	32.3	32.5
El Paso .....	223.3	221.0	220.7	79.4	80.4	80.4	347.5	359.6	359.7
Ft. Worth-Arlington .....	41.7	41.5	41.4	10.3	10.7	10.6	51.8	53.4	52.7
Galveston-Texas City .....	120.4	118.9	118.5	53.0	56.6	57.0	145.0	147.3	146.2
Houston .....	8.9	8.6	8.5	4.7	5.3	5.1	14.1	14.4	14.4
Killeen-Temple .....	163.2	165.9	165.9	106.7	107.6	107.2	366.7	374.8	373.5
Laredo .....	8.6	8.8	8.7	2.7	2.6	2.5	16.9	16.7	16.5
Longview-Marshall .....	1.9	1.8	1.8	6.1	6.1	6.1	13.9	14.2	14.5
Lubbock .....	16.0	16.1	16.2	3.4	3.4	3.4	17.1	17.1	17.0
McAllen-Edinburg-Mission .....	7.4	7.2	7.2	5.1	5.4	5.5	28.1	28.3	28.5
Midland .....	12.8	12.9	13.3	3.0	2.9	3.0	29.7	31.1	31.2
Odessa .....	2.4	2.3	2.4	2.3	2.2	2.2	10.9	11.1	11.0
San Angelo .....	4.2	4.1	4.1	1.9	1.9	1.9	12.6	12.8	12.8
San Antonio .....	5.4	4.9	5.0	2.7	2.5	2.5	9.1	8.8	8.8
Sherman-Denison .....	48.9	45.8	45.5	19.4	19.7	19.7	129.0	133.0	132.8
Texas .....	11.1	10.9	10.9	1.6	1.3	1.3	8.0	8.2	8.1
Tyler .....	7.3	7.1	7.1	2.4	2.4	2.4	10.9	10.9	10.9
Victoria .....	10.7	10.9	11.0	2.8	2.8	2.9	16.3	16.3	16.4
Waco .....	2.9	3.1	3.1	1.3	1.3	1.3	7.7	7.8	7.5
Wichita Falls .....	15.5	15.8	16.0	3.5	3.5	3.5	18.7	18.7	18.8
	8.4	8.0	7.9	2.5	2.6	2.6	11.8	11.8	11.9

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	8.9	9.1	9.1	32.3	33.1	32.8	16.7	15.9	17.8
Scranton-Wilkes-Barre .....	13.1	13.6	13.4	77.1	79.9	78.8	40.3	39.0	40.5
Sharon .....	1.3	1.4	1.4	11.8	11.7	12.3	4.8	4.7	4.9
State College .....	1.9	2.0	2.0	10.8	10.9	11.1	22.3	20.1	22.7
Williamsport .....	2.3	2.5	2.4	10.6	11.1	11.1	7.0	8.3	6.8
York .....	5.0	5.2	5.1	34.3	34.6	35.6	18.4	17.3	18.0
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	3.9	4.0	4.0	26.4	26.0	26.1	10.0	9.1	9.7
Providence .....	22.1	22.0	21.9	93.1	92.4	94.9	44.0	42.4	44.0
<b>South Carolina</b>									
Charleston .....	8.8	9.1	8.9	42.2	45.3	45.9	52.7	52.7	54.8
Columbia .....	18.5	18.8	18.7	47.1	47.7	47.5	63.6	63.7	67.5
Greenville-Spartanburg .....	12.4	12.4	12.4	63.4	66.3	67.5	42.0	37.0	42.7
<b>South Dakota</b>									
Rapid City .....	1.5	1.6	1.5	9.6	10.5	9.9	6.9	6.3	6.9
Sioux Falls .....	7.6	7.9	7.8	19.4	19.6	19.5	7.9	7.5	8.2
<b>Tennessee</b>									
Chattanooga .....	12.6	13.3	13.3	40.0	41.1	41.4	33.6	33.5	34.5
Johnson City-Kingsport-Bristol .....	5.4	5.3	5.2	30.6	34.1	34.4	23.8	25.2	26.2
Knoxville .....	9.8	10.3	10.1	57.3	58.3	57.2	51.0	50.0	52.0
Memphis .....	26.1	26.6	26.4	109.6	113.2	113.3	73.6	71.1	75.8
Nashville .....	32.2	32.3	32.2	131.2	136.3	137.7	68.8	66.1	67.5
<b>Texas</b>									
Abilene .....	2.3	2.2	2.2	13.9	13.7	14.4	8.9	8.5	8.9
Amarillo .....	4.1	3.8	3.8	17.3	17.7	17.8	14.2	13.9	15.0
Austin .....	23.8	23.9	23.7	91.2	94.1	94.2	103.7	95.8	106.6
Beaumont-Port Arthur .....	5.3	5.4	5.4	31.6	33.7	33.7	20.9	20.1	21.1
Brazoria .....	1.8	1.8	1.8	8.9	9.1	9.2	11.1	11.1	11.9
Brownsville-Harlingen .....	3.8	3.9	3.9	17.0	17.7	17.6	17.0	16.8	18.0
Bryan-College Station .....	1.6	1.8	1.7	8.9	9.6	9.3	23.5	21.7	22.8
Corpus Christi .....	6.3	6.3	6.3	30.3	30.7	30.7	28.0	28.2	28.2
Dallas .....	129.9	128.7	128.2	352.6	351.1	351.4	158.1	155.7	163.9
El Paso .....	8.5	8.4	8.2	42.0	42.9	42.3	42.6	41.0	42.2
Ft. Worth-Arlington .....	28.2	27.9	27.7	123.5	129.7	128.4	71.7	74.4	76.5
Galveston-Texas City .....	4.5	4.6	4.5	13.7	14.4	14.2	21.7	21.7	21.4
Houston .....	101.9	102.7	102.7	415.4	433.8	433.8	192.9	197.6	203.8
Killeen-Temple .....	3.1	3.2	3.2	17.2	17.5	17.4	21.6	22.0	22.6
Laredo .....	1.8	1.9	1.9	7.2	7.4	7.4	9.4	9.9	9.9
Longview-Marshall .....	2.7	2.6	2.6	13.2	13.9	13.8	8.6	8.4	8.8
Lubbock .....	5.5	5.4	5.4	23.8	24.0	24.2	22.9	22.8	23.3
McAllen-Edinburg-Mission .....	4.2	4.3	4.2	16.0	16.8	16.8	25.4	24.5	26.5
Midland .....	2.4	2.4	2.4	9.6	9.7	9.5	7.0	6.7	7.3
Odessa .....	1.6	1.5	1.5	7.6	7.9	7.8	7.7	7.5	8.0
San Angelo .....	1.7	1.7	1.6	8.8	8.8	8.8	7.2	7.0	7.5
San Antonio .....	41.0	40.6	40.5	132.1	134.7	134.7	117.6	113.9	121.5
Sherman-Denison .....	1.9	1.9	1.8	8.6	8.4	8.8	4.4	4.0	4.4
Texarkana .....	1.8	1.8	1.8	10.4	11.2	10.9	12.5	11.3	12.2
Tyler .....	3.4	3.3	3.3	15.0	15.5	15.5	9.5	9.3	9.7
Victoria .....	1.5	1.6	1.5	6.1	5.8	5.8	5.7	5.1	5.2
Waco .....	5.2	5.1	5.1	22.4	22.1	23.3	12.8	11.6	13.3
Wichita Falls .....	2.3	2.4	2.3	12.5	12.6	12.8	9.9	9.4	9.9

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Utah</b> .....	705.5	723.4	736.9	8.5	8.8	8.7	29.2	29.6	29.8
Provo-Orem .....	90.4	90.6	95.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	3.1	3.1
Salt Lake City-Ogden .....	484.4	494.6	499.2	2.6	2.8	2.8	19.8	21.0	20.8
<b>Vermont</b> .....	260.5	253.4	257.3	.6	.5	.5	19.3	16.8	16.5
Barre-Montpelier .....	34.8	33.6	34.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.5	2.4
Burlington .....	79.4	78.3	79.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	4.8	4.6
<b>Virginia</b> .....	2,895.9	2,925.8	2,938.1	14.9	16.7	16.6	202.3	197.7	194.8
Bristol .....	33.6	33.2	32.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.2	1.2
Charlottesville .....	75.9	74.5	76.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.3	4.2
Danville .....	43.7	40.7	42.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.2	2.2
Lynchburg .....	77.7	76.1	77.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	4.0	4.0
Norfolk-Virginia Beach-Newport News .....	591.6	596.7	595.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	38.5	37.7	37.0
Northern Virginia .....	780.0	780.6	778.3	.6	.5	.5	65.3	55.0	53.7
Richmond-Petersburg .....	473.6	475.5	478.2	.8	.8	.8	31.2	31.9	31.7
Roanoke .....	125.8	127.1	128.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.1	8.0	7.8
<b>Washington</b> .....	2,089.8	2,153.6	2,172.3	3.7	4.2	4.1	116.8	128.4	128.2
Seattle .....	1,072.8	1,107.9	1,105.6	.6	.6	.6	62.1	62.9	59.9
<b>West Virginia</b> .....	616.9	618.4	622.0	35.4	36.0	35.9	25.0	24.5	24.7
Charleston .....	108.6	113.4	113.0	1.9	2.1	2.0	4.1	5.5	5.6
Huntington-Ashland .....	109.5	109.8	111.3	1.5	1.7	1.6	5.3	5.4	5.2
Parkersburg-Marietta .....	61.0	61.6	61.4	.5	.5	.5	3.3	3.3	3.1
Wheeling .....	60.2	61.6	61.9	2.2	2.5	2.5	2.2	2.4	2.5
<b>Wisconsin</b> .....	2,262.6	2,288.9	2,296.9	2.6	2.7	2.6	90.6	91.4	89.0
Appleton-Oshkosh-Neenah .....	158.4	161.9	163.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.2	8.1
Eau Claire .....	61.1	61.3	62.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.8	2.5
Green Bay .....	103.5	106.3	106.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	6.1	5.9
Janesville-Beloit .....	59.0	58.9	59.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.1	1.9
Kenosha .....	40.3	40.3	40.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.4	1.5
La Crosse .....	54.1	53.2	54.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.2	2.0
Madison .....	215.1	219.6	221.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.2	9.4	9.2
Milwaukee .....	754.2	766.9	769.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.8	29.6	29.2
Racine .....	78.3	78.7	78.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	2.6	2.5
Sheboygan .....	52.7	54.3	54.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.5	1.3
Wausau .....	53.6	55.0	55.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.2	2.3
<b>Wyoming</b> .....	202.2	200.6	203.4	17.8	17.8	18.1	11.7	11.9	11.8
Casper .....	28.1	28.3	28.5	2.4	2.5	2.5	1.7	1.7	1.7
<b>Puerto Rico</b> .....	826.8	842.4	838.7	.9	.9	.9	42.9	45.6	45.0
Caguas .....	52.0	52.3	52.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.4	1.3
Mayaguez .....	58.6	58.3	58.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	1.9	1.8
Ponce .....	56.2	60.4	60.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	4.0	4.0
San Juan .....	510.7	519.2	516.4	.5	.5	.6	32.0	32.8	32.4
<b>Virgin Islands</b> .....	41.3	41.9	41.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.6	2.9

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>Utah</b> .....	103.9	107.4	107.7	42.4	43.1	43.6	170.2	178.1	178.9
Provo-Orem .....	13.6	13.7	13.7	2.8	2.7	2.7	20.7	21.2	22.0
Salt Lake City-Ogden .....	67.5	68.6	68.8	31.9	33.0	33.3	122.0	123.8	124.0
<b>Vermont</b> .....	47.9	45.2	44.5	9.4	10.8	11.1	61.6	61.7	61.0
Barre-Montpelier .....	5.0	4.8	4.8	.8	.9	.9	7.6	7.4	7.3
Burlington .....	15.9	15.3	15.0	2.8	3.7	3.4	20.1	20.4	20.5
<b>Virginia</b> .....	429.4	422.1	421.6	151.7	153.8	154.0	659.7	674.8	668.0
Bristol .....	11.0	10.7	10.1	1.3	1.2	1.2	8.5	8.9	8.7
Charlottesville .....	9.3	9.0	8.7	2.6	2.8	2.8	14.6	14.8	14.8
Danville .....	17.6	15.2	16.2	1.0	1.0	1.0	9.5	9.4	9.3
Lynchburg .....	24.1	23.7	23.5	2.9	2.6	2.6	17.0	17.4	17.5
Norfolk-Virginia Beach-Newport News .....	68.0	68.3	67.9	27.3	27.7	28.4	145.7	146.8	144.4
Northern Virginia .....	35.5	35.1	34.6	54.6	55.9	56.2	173.7	180.0	178.3
Richmond-Petersburg .....	64.9	63.2	63.1	24.6	24.4	24.4	112.2	111.7	111.3
Roanoke .....	19.7	19.6	19.8	7.9	7.8	7.7	33.5	34.7	34.8
<b>Washington</b> .....	372.8	369.7	369.5	111.2	114.9	114.9	512.4	539.9	539.3
Seattle .....	220.0	219.3	219.4	68.4	71.4	70.7	255.5	272.6	269.8
<b>West Virginia</b> .....	87.3	66.6	65.8	37.0	37.2	36.8	147.2	148.1	147.5
Charleston .....	10.7	11.0	11.0	9.1	9.2	9.2	28.9	30.3	30.1
Huntington-Ashland .....	20.6	20.6	20.8	8.1	8.1	8.0	27.7	28.3	28.5
Parkersburg-Marietta .....	13.8	14.1	13.5	2.6	2.5	2.5	15.1	15.3	15.3
Wheeling .....	7.2	7.6	7.7	3.5	3.5	3.5	16.6	17.1	17.1
<b>Wisconsin</b> .....	563.4	573.9	566.9	102.4	100.4	102.9	539.1	554.4	548.1
Appleton-Oshkosh-Neenah .....	54.6	55.9	54.8	5.3	5.7	5.8	35.6	36.4	37.5
Eau Claire .....	11.6	10.9	10.7	3.4	3.7	3.8	16.8	17.1	17.4
Green Bay .....	25.5	26.1	25.4	7.6	7.6	7.8	26.4	26.8	26.5
Janesville-Beloit .....	18.3	17.7	17.7	2.4	2.0	2.3	13.8	13.9	13.8
Kenosha .....	10.1	9.6	9.6	1.4	1.8	1.7	10.7	11.0	11.1
La Crosse .....	10.7	10.3	10.3	2.3	2.5	2.5	14.6	14.1	14.3
Madison .....	24.9	26.7	26.2	6.8	6.5	6.6	49.6	51.3	51.9
Milwaukee .....	173.2	173.5	172.8	37.1	36.4	37.4	174.4	181.2	178.8
Racine .....	26.3	25.9	25.9	2.3	2.3	2.4	18.7	19.6	19.3
Sheboygan .....	22.2	23.2	22.8	1.6	1.6	1.6	10.0	10.4	10.3
Wausau .....	15.3	15.6	15.4	3.1	3.1	3.1	13.8	14.1	14.3
<b>Wyoming</b> .....	9.3	9.0	9.3	14.7	14.9	14.8	46.1	48.7	47.0
Casper .....	1.7	1.7	1.7	1.7	1.8	1.8	8.0	8.0	8.0
<b>Puerto Rico</b> .....	157.1	154.4	154.3	18.4	19.4	19.5	151.1	156.8	156.3
Caguas .....	15.4	15.1	14.9	.4	.4	.4	10.7	11.5	11.6
Mayaguez .....	20.1	19.9	20.0	.4	.5	.5	8.2	8.4	8.4
Ponce .....	10.3	10.2	10.4	2.1	2.0	1.8	8.9	9.0	9.0
San Juan .....	66.2	67.3	66.9	14.1	14.4	14.5	103.4	106.7	106.2
<b>Virgin Islands</b> .....	2.4	2.3	2.3	2.4	2.2	2.3	9.6	10.3	10.0

See footnotes at end of table.

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

**B-8. Employees on nonfarm payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Utah</b> .....	33.6	34.6	34.4	172.5	180.8	184.4	145.2	141.0	149.4
Provo-Orem .....	2.3	2.4	2.3	34.2	33.3	37.3	13.8	14.2	14.6
Salt Lake City-Ogden .....	27.4	28.0	28.0	117.1	122.7	122.5	96.1	94.7	99.0
<b>Vermont</b> .....	13.0	13.2	12.8	65.9	67.2	66.1	42.8	38.0	44.8
Barre-Montpelier .....	3.1	2.8	2.8	7.7	8.1	7.8	7.9	7.1	8.3
Burlington .....	4.0	4.3	4.2	19.3	19.1	19.5	11.8	10.7	12.6
<b>Virginia</b> .....	153.9	157.5	156.1	719.8	749.9	749.9	564.2	553.3	577.1
Bristol .....	1.2	1.2	1.1	5.2	5.0	5.1	5.2	5.0	5.3
Charlottesville .....	4.5	4.8	4.6	13.5	14.0	13.7	26.9	25.0	28.1
Danville .....	1.3	1.3	1.3	6.5	6.7	6.8	5.4	4.9	5.5
Lynchburg .....	3.7	3.7	3.7	16.5	15.0	16.3	9.6	9.7	9.8
Norfolk-Virginia Beach-Newport News .....	27.0	28.0	27.6	151.5	156.8	154.4	133.6	131.4	135.4
Northern Virginia .....	52.1	51.7	51.4	253.4	257.7	255.9	144.8	144.7	147.7
Richmond-Petersburg .....	39.5	40.1	39.8	108.5	110.4	111.8	93.9	93.0	95.3
Roanoke .....	8.9	8.9	8.8	32.3	33.1	33.3	15.4	15.0	15.8
<b>Washington</b> .....	114.3	118.6	118.1	483.7	507.0	512.2	374.9	370.9	386.0
Seattle .....	72.1	74.6	74.2	256.3	266.7	268.0	137.8	137.8	143.0
<b>West Virginia</b> .....	24.0	24.7	24.5	139.0	145.2	146.7	122.0	116.1	120.1
Charleston .....	6.2	6.2	6.2	27.4	28.9	28.9	20.3	20.2	20.0
Huntington-Ashland .....	3.8	3.9	3.9	24.1	24.5	24.7	18.4	17.3	18.6
Parkersburg-Marietta .....	2.1	2.2	2.2	14.5	14.7	14.8	9.1	9.0	9.5
Wheeling .....	2.9	3.1	3.1	16.7	16.5	16.6	8.9	8.9	8.9
<b>Wisconsin</b> .....	118.9	122.2	121.4	516.2	528.8	525.8	329.4	315.2	340.2
Appleton-Oshkosh-Neenah .....	7.4	7.8	7.7	31.6	32.2	32.2	16.1	15.8	17.1
Eau Claire .....	1.9	1.9	1.9	14.2	15.1	15.1	11.0	9.8	11.4
Green Bay .....	4.0	4.4	4.4	24.3	24.8	25.1	10.8	10.4	11.2
Janesville-Beloit .....	1.7	1.7	1.7	13.4	13.8	13.7	7.3	7.8	7.9
Kenosha .....	1.3	1.3	1.3	8.7	9.8	9.6	6.4	5.5	6.1
La Crosse .....	1.7	1.6	1.7	15.4	15.9	16.1	7.2	6.6	7.5
Madison .....	18.9	19.4	19.4	47.7	49.1	49.2	58.8	57.3	59.3
Milwaukee .....	50.8	51.7	51.3	206.2	214.2	213.0	82.4	80.3	86.8
Racine .....	2.4	2.4	2.4	17.1	17.6	17.4	8.2	8.3	8.8
Sheboygan .....	2.7	2.4	2.4	9.7	10.3	10.4	5.2	4.9	5.6
Wausau .....	3.4	3.4	3.3	9.6	11.1	10.7	6.1	5.6	6.2
<b>Wyoming</b> .....	7.3	7.4	7.5	39.3	41.7	39.5	56.0	49.2	55.4
Casper .....	1.4	1.4	1.4	6.3	6.6	6.5	4.9	4.6	4.9
<b>Puerto Rico</b> .....	36.4	36.2	36.0	129.5	134.1	134.5	290.6	295.1	292.2
Caguas .....	1.3	1.4	1.4	6.3	6.3	6.3	16.4	16.2	16.4
Mayaguez .....	1.3	1.3	1.3	7.4	7.7	7.7	18.7	18.6	18.4
Ponce .....	1.9	1.7	1.7	10.5	11.6	11.7	18.9	21.9	21.8
San Juan .....	29.4	29.8	29.6	92.4	95.3	95.8	172.6	172.4	170.4
<b>Virgin Islands</b> .....	2.0	1.9	1.9	9.4	8.3	8.5	13.2	14.3	13.2

<sup>1</sup> Combined with construction.

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

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

All State and area data have been adjusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989 .....	34.6	9.66	334.24	43.0	13.25	569.75	37.9	13.52	512.41
Monthly data, not seasonally adjusted									
<b>1989:</b>									
October .....	34.8	\$9.81	\$341.39	44.1	\$13.23	\$583.44	39.2	\$13.71	\$537.43
November .....	34.5	9.81	338.45	43.8	13.27	581.23	38.0	13.69	520.22
December .....	34.6	9.84	340.46	43.7	13.46	588.20	37.0	13.84	512.08
<b>1990:</b>									
January .....	34.1	9.87	336.57	43.6	13.46	586.86	37.6	13.59	510.98
February .....	34.2	9.91	338.92	43.3	13.46	582.82	37.3	13.59	506.91
March .....	34.3	9.93	340.60	43.0	13.57	583.51	37.9	13.63	516.58
April .....	34.4	9.97	342.97	43.1	13.66	588.75	37.3	13.58	506.53
May .....	34.4	9.97	342.97	43.2	13.56	585.79	38.2	13.68	522.58
June .....	34.8	9.98	347.30	44.4	13.66	606.50	39.1	13.63	532.93
July .....	34.9	10.00	349.00	43.6	13.69	596.88	38.3	13.70	524.71
August .....	34.8	10.00	348.00	44.0	13.63	599.72	39.0	13.74	535.86
September <sup>p</sup> .....	34.8	10.17	353.92	45.0	13.81	621.45	39.1	13.92	544.27
October <sup>p</sup> .....	34.4	10.17	349.85	44.8	13.77	616.90	38.0	13.90	528.20

See footnotes at end of table.



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.36
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.27
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.08
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.85
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.89
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.74
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.91
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.68
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.42
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.74
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	170.11
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.42
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.15
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	208.76
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	227.87
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.65
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	267.13
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.75
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.23
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.25
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.78
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.08
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.57
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.30
1988 .....	41.1	10.19	9.73	418.81	38.8	12.26	475.69	38.1	9.98	380.24
1989 .....	41.0	10.49	10.02	430.09	38.9	12.61	490.53	38.0	10.39	394.82
<b>Monthly data, not seasonally adjusted</b>										
<b>1989:</b>										
October .....	40.9	\$10.54	\$10.06	\$431.09	39.0	\$12.74	\$496.86	38.2	\$10.51	\$401.48
November .....	41.1	10.59	10.11	435.25	38.7	12.71	491.88	38.1	10.56	402.34
December .....	41.3	10.68	10.20	441.08	38.7	12.76	493.81	38.2	10.63	406.07
<b>1990:</b>										
January .....	40.6	10.60	10.16	430.36	37.8	12.79	483.46	37.8	10.61	401.06
February .....	40.4	10.68	10.25	431.47	38.4	12.87	494.21	37.8	10.66	402.95
March .....	40.7	10.75	10.30	437.53	38.7	12.83	496.52	37.9	10.66	404.01
April .....	39.8	10.75	10.37	427.85	38.9	12.96	504.14	38.1	10.78	410.72
May .....	40.9	10.81	10.36	442.13	38.9	12.82	498.70	38.0	10.73	407.74
June .....	41.1	10.85	10.37	445.94	39.4	12.86	506.68	38.2	10.76	411.03
July .....	40.5	10.88	10.41	440.64	39.4	12.99	511.81	38.3	10.82	414.41
August .....	40.8	10.82	10.33	441.46	39.2	12.96	508.03	38.1	10.77	410.34
September <sup>p</sup> .....	41.3	10.94	10.42	451.82	39.3	13.04	512.47	38.3	10.94	419.00
October <sup>p</sup> .....	41.0	10.96	10.47	449.36	38.8	13.03	505.56	38.2	10.90	416.38

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. 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	\$64.81	37.3	\$2.30	\$85.77	36.1	\$1.94	\$70.05
1965 .....	36.6	1.82	66.65	37.2	2.39	88.85	35.9	2.05	73.60
1966 .....	35.9	1.91	68.50	37.3	2.47	92.21	35.5	2.17	76.92
1967 .....	35.3	2.01	70.86	37.1	2.58	95.70	35.1	2.29	80.30
1968 .....	34.7	2.16	74.93	37.0	2.75	101.70	34.7	2.42	84.08
1969 .....	34.2	2.30	78.67	37.1	2.93	108.56	34.7	2.61	90.62
1970 .....	33.8	2.44	82.31	36.7	3.07	112.79	34.4	2.81	96.52
1971 .....	33.7	2.60	87.51	36.6	3.22	118.02	33.9	3.04	103.04
1972 .....	33.4	2.75	92.03	36.6	3.36	122.94	33.9	3.27	110.62
1973 .....	33.1	2.91	96.45	36.6	3.53	129.34	33.8	3.47	117.49
1974 .....	32.7	3.14	102.55	36.5	3.77	137.68	33.6	3.75	126.22
1975 .....	32.4	3.36	108.63	36.5	4.06	147.89	33.5	4.02	134.73
1976 .....	32.1	3.57	114.56	36.4	4.27	155.51	33.3	4.31	143.53
1977 .....	31.6	3.85	121.54	36.4	4.54	165.42	33.0	4.65	153.59
1978 .....	31.0	4.20	130.14	36.4	4.89	178.03	32.8	4.99	163.89
1979 .....	30.6	4.53	138.83	36.2	5.27	190.92	32.7	5.36	175.36
1980 .....	30.2	4.88	147.24	36.2	5.79	209.68	32.6	5.85	190.98
1981 .....	30.1	5.25	157.99	36.3	6.31	228.73	32.6	6.41	209.16
1982 .....	29.9	5.48	163.83	36.2	6.78	245.68	32.6	6.92	225.87
1983 .....	29.8	5.74	171.13	36.2	7.29	263.68	32.7	7.31	239.04
1984 .....	29.8	5.85	174.47	36.5	7.63	278.04	32.6	7.59	247.25
1985 .....	29.4	5.94	174.81	36.4	7.94	289.20	32.5	7.90	256.49
1986 .....	29.2	6.03	175.80	36.4	8.36	304.49	32.5	8.18	265.93
1987 .....	29.2	6.12	178.80	36.3	8.73	316.37	32.5	8.49	276.03
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	9.54	341.53	32.6	9.39	306.11
Monthly data, not seasonally adjusted									
<b>1989:</b>									
October .....	28.9	\$6.61	\$191.03	36.1	\$9.70	\$350.17	32.8	\$9.58	\$314.22
November .....	28.6	6.63	189.62	35.6	9.67	344.25	32.5	9.61	312.33
December .....	29.3	6.65	194.85	35.6	9.73	346.39	32.5	9.68	314.60
<b>1990:</b>									
January .....	28.1	6.73	189.11	35.6	9.80	348.88	32.4	9.72	314.93
February .....	28.3	6.72	190.18	35.7	9.87	352.36	32.4	9.75	315.90
March .....	28.5	6.74	192.09	35.6	9.84	350.30	32.4	9.76	316.22
April .....	29.0	6.75	195.75	36.1	9.97	359.92	32.6	9.82	320.13
May .....	28.8	6.75	194.40	35.5	9.90	351.45	32.3	9.77	315.57
June .....	29.3	6.75	197.78	35.8	9.90	354.42	32.7	9.75	318.83
July .....	29.7	6.74	200.18	36.2	10.00	362.00	33.0	9.79	323.07
August .....	29.4	6.75	198.45	35.7	9.96	355.57	32.8	9.78	320.78
September <sup>p</sup> .....	28.9	6.86	198.25	36.1	10.12	365.33	32.7	9.99	326.67
October <sup>p</sup> .....	28.4	6.86	194.82	35.6	10.09	359.20	32.4	10.02	324.65

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

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Total private</b> .....		34.7	34.8	34.8	34.8	34.4	-	-	-	-	-
<b>Mining</b> .....		44.0	44.1	44.0	45.0	44.8	-	-	-	-	-
Metal mining .....	10	43.6	43.1	42.7	43.0	-	-	-	-	-	-
Iron ores .....	101	43.3	43.4	42.9	44.0	-	-	-	-	-	-
Copper ores .....	102	47.2	45.7	45.3	46.1	-	-	-	-	-	-
Coal mining .....	12	44.2	44.4	43.8	44.5	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	44.1	44.3	43.7	44.4	-	-	-	-	-	-
Oil and gas extraction .....	13	42.8	43.1	43.7	45.0	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	42.7	41.7	41.8	44.0	-	-	-	-	-	-
Oil and gas field services .....	138	42.9	44.0	44.8	45.6	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	47.3	47.2	46.3	46.6	-	-	-	-	-	-
Crushed and broken stone .....	142	48.4	48.3	47.3	47.2	-	-	-	-	-	-
<b>Construction</b> .....		38.6	39.2	39.0	39.1	38.0	-	-	-	-	-
General building contractors .....	15	37.9	38.3	38.2	38.3	-	-	-	-	-	-
Residential building construction .....	152	37.1	37.6	37.8	37.3	-	-	-	-	-	-
Operative builders .....	153	38.7	38.0	36.9	36.9	-	-	-	-	-	-
Nonresidential building construction .....	154	38.7	39.1	38.8	39.3	-	-	-	-	-	-
Heavy construction, except building .....	16	42.6	44.2	43.3	43.5	-	-	-	-	-	-
Highway and street construction .....	161	43.6	46.1	45.4	45.3	-	-	-	-	-	-
Heavy construction, except highway .....	162	42.2	43.3	42.2	42.5	-	-	-	-	-	-
Special trade contractors .....	17	37.7	38.2	38.0	38.2	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	38.8	39.0	38.8	38.7	-	-	-	-	-	-
Painting and paper hanging .....	172	35.9	36.0	36.4	36.5	-	-	-	-	-	-
Electrical work .....	173	39.5	39.5	39.6	39.7	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	34.9	35.6	35.6	35.7	-	-	-	-	-	-
Carpentry and floor work .....	175	35.4	35.6	35.7	35.7	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	35.2	36.5	36.4	36.5	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.2	40.9	40.8	41.3	41.0	4.1	3.9	3.9	4.1	3.8
<b>Durable goods</b> .....		41.7	41.4	41.3	41.8	41.5	4.1	3.9	3.9	4.1	3.9
Lumber and wood products .....	24	40.4	40.6	40.6	41.0	40.3	3.8	3.7	3.8	3.8	-
Logging .....	241	41.1	41.8	42.2	43.2	-	5.2	5.4	5.5	5.8	-
Sawmills and planing mills .....	242	41.4	41.8	41.3	41.7	-	4.4	4.6	4.3	4.4	-
Sawmills and planing mills, general .....	2421	41.8	42.3	41.5	42.2	-	4.7	4.9	4.6	4.8	-
Hardwood dimension and flooring mills .....	2426	40.1	39.8	40.6	40.0	-	3.1	3.3	3.2	3.1	-
Millwork, plywood, and structural members .....	243	40.1	40.1	39.7	40.1	-	3.3	3.2	3.0	3.1	-
Millwork .....	2431	39.6	39.5	39.4	39.7	-	2.6	2.4	2.4	2.8	-
Wood kitchen cabinets .....	2434	39.4	38.7	39.0	39.1	-	3.1	2.7	2.7	2.7	-
Hardwood veneer and plywood .....	2435	41.2	41.9	40.3	40.3	-	3.9	3.8	3.8	3.6	-
Softwood veneer and plywood .....	2436	41.9	43.8	41.5	43.0	-	5.1	5.4	4.4	4.9	-
Wood containers .....	244	39.0	38.7	40.1	40.1	-	3.6	3.2	3.3	3.5	-
Wood buildings and mobile homes .....	245	38.4	38.7	40.3	39.4	-	2.0	2.0	2.9	2.4	-
Mobile homes .....	2451	38.1	38.6	40.1	39.2	-	1.6	1.6	2.8	2.4	-
Miscellaneous wood products .....	249	40.4	40.5	40.6	41.0	-	3.4	3.2	3.4	3.6	-
Furniture and fixtures .....	25	40.1	39.8	39.6	39.7	39.2	3.1	3.0	2.8	2.9	-
Household furniture .....	251	39.3	39.2	39.1	39.1	-	2.6	2.6	2.4	2.4	-
Wood household furniture .....	2511	39.8	39.9	39.5	39.2	-	2.8	2.9	2.5	2.3	-
Upholstered household furniture .....	2512	38.0	38.4	37.6	38.0	-	1.8	2.1	1.8	1.8	-
Metal household furniture .....	2514	40.0	39.9	41.5	41.0	-	2.9	2.5	3.6	3.7	-
Mattresses and bedsprings .....	2515	41.0	38.5	40.5	40.5	-	4.1	2.6	3.7	3.7	-
Office furniture .....	252	40.4	39.9	39.4	39.9	-	2.9	2.5	2.7	3.0	-
Public building and related furniture .....	253	40.4	40.5	41.1	41.2	-	3.7	3.7	3.8	4.1	-
Partitions and fixtures .....	254	42.7	41.8	41.4	41.8	-	5.1	4.6	3.9	4.5	-
Miscellaneous furniture and fixtures .....	259	40.4	40.0	39.1	39.4	-	3.5	3.0	2.5	2.6	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Total private</b> .....		\$9.77	\$9.81	\$10.00	\$10.17	\$10.17	\$339.02	\$341.39	\$348.00	\$353.92	\$349.85
<b>Mining</b> .....		13.29	13.23	13.63	13.81	13.77	584.76	583.44	599.72	621.45	616.90
Metal mining .....	10	13.63	13.69	14.27	14.41	-	594.27	590.04	609.33	619.63	-
Iron ores .....	101	13.91	13.96	15.16	15.21	-	602.30	605.86	650.36	669.24	-
Copper ores .....	102	12.03	11.95	12.80	12.98	-	567.82	546.12	579.84	598.38	-
Coal mining .....	12	16.31	16.30	16.70	16.80	-	720.90	723.72	731.46	747.60	-
Bituminous coal and lignite mining .....	122	16.45	16.44	16.86	16.97	-	725.45	728.29	736.78	753.47	-
Oil and gas extraction .....	13	12.46	12.35	12.80	13.03	-	533.29	532.29	559.36	586.35	-
Crude petroleum and natural gas .....	131	15.46	15.54	16.17	16.53	-	660.14	648.02	675.91	727.32	-
Oil and gas field services .....	138	10.68	10.59	11.08	11.21	-	458.17	465.96	496.38	511.18	-
Nonmetallic minerals, except fuels .....	14	11.38	11.38	11.60	11.78	-	538.27	537.14	537.08	548.95	-
Crushed and broken stone .....	142	10.87	10.90	11.17	11.40	-	526.11	526.47	528.34	538.08	-
<b>Construction</b> .....		13.65	13.71	13.74	13.92	13.90	526.89	537.43	535.86	544.27	528.20
General building contractors .....	15	12.80	12.84	12.88	13.07	-	485.12	491.77	492.02	500.58	-
Residential building construction .....	152	12.17	12.21	12.12	12.27	-	451.51	459.10	458.14	457.67	-
Operative builders .....	153	12.24	12.13	12.97	13.07	-	473.69	460.94	478.59	482.28	-
Nonresidential building construction .....	154	13.47	13.49	13.63	13.82	-	521.29	527.46	528.84	543.13	-
Heavy construction, except building .....	16	13.44	13.52	13.56	13.76	-	572.54	597.58	587.15	598.56	-
Highway and street construction .....	161	13.32	13.35	13.51	13.74	-	580.75	615.44	613.35	622.42	-
Heavy construction, except highway .....	162	13.49	13.60	13.58	13.78	-	569.28	588.88	573.08	585.65	-
Special trade contractors .....	17	14.06	14.11	14.14	14.31	-	530.06	539.00	537.32	546.64	-
Plumbing, heating, and air conditioning .....	171	14.35	14.32	14.41	14.54	-	556.78	558.48	559.11	562.70	-
Painting and paper hanging .....	172	13.00	13.03	12.77	13.02	-	466.70	469.08	464.83	475.23	-
Electrical work .....	173	14.92	15.00	15.05	15.24	-	589.34	592.50	595.98	605.03	-
Masonry, stonework, and plastering .....	174	14.06	14.22	14.23	14.42	-	490.69	506.23	506.59	514.79	-
Carpentry and floor work .....	175	14.29	14.57	14.19	14.33	-	505.87	518.69	506.58	511.58	-
Roofing, siding, and sheet metal work .....	176	12.34	12.23	12.36	12.41	-	434.37	446.40	449.90	452.97	-
<b>Manufacturing</b> .....		10.56	10.54	10.82	10.94	10.96	435.07	431.09	441.46	451.82	449.36
<b>Durable goods</b> .....		11.11	11.07	11.35	11.49	11.50	463.29	458.30	468.76	480.28	477.25
Lumber and wood products .....	24	8.95	8.96	9.14	9.22	9.13	361.58	363.78	371.08	378.02	367.94
Logging .....	241	11.29	11.32	11.49	11.59	-	464.02	473.18	484.88	500.69	-
Sawmills and planing mills .....	242	9.11	9.13	9.16	9.23	-	377.15	381.63	378.31	384.89	-
Sawmills and planing mills, general .....	2421	9.47	9.50	9.52	9.58	-	395.85	401.85	395.08	404.28	-
Hardwood dimension and flooring mills .....	2426	7.39	7.34	7.57	7.60	-	296.34	292.13	307.34	304.00	-
Millwork, plywood, and structural members .....	243	8.82	8.80	9.10	9.19	-	353.68	352.88	361.27	368.52	-
Millwork .....	2431	9.00	8.97	9.41	9.59	-	356.40	354.32	370.75	380.72	-
Wood kitchen cabinets .....	2434	8.31	8.25	8.52	8.53	-	327.41	319.28	332.28	333.52	-
Hardwood veneer and plywood .....	2435	7.45	7.43	7.84	7.80	-	306.94	311.32	315.95	314.34	-
Softwood veneer and plywood .....	2436	10.25	10.22	10.32	10.41	-	429.48	447.64	428.28	447.63	-
Wood containers .....	244	6.57	6.57	6.58	6.67	-	256.23	254.26	263.86	267.47	-
Wood buildings and mobile homes .....	245	8.36	8.39	8.64	8.64	-	321.02	324.69	348.19	340.42	-
Mobile homes .....	2451	8.39	8.45	8.73	8.74	-	319.66	326.17	350.07	342.61	-
Miscellaneous wood products .....	249	8.00	7.97	8.25	8.34	-	323.20	322.79	334.95	341.94	-
Furniture and fixtures .....	25	8.40	8.41	8.56	8.64	8.61	336.84	334.72	338.98	343.01	337.51
Household furniture .....	251	7.74	7.76	7.94	7.95	-	304.18	304.19	310.45	310.85	-
Wood household furniture .....	2511	7.24	7.29	7.41	7.41	-	288.15	290.87	292.70	290.47	-
Upholstered household furniture .....	2512	8.45	8.48	8.62	8.70	-	321.10	325.63	324.11	330.60	-
Metal household furniture .....	2514	8.04	7.98	8.26	8.22	-	321.60	318.40	342.79	337.02	-
Mattresses and bedsprings .....	2515	8.09	8.04	8.31	8.26	-	331.69	309.54	336.56	334.53	-
Office furniture .....	252	9.43	9.45	9.52	9.72	-	380.97	377.06	375.09	387.83	-
Public building and related furniture .....	253	8.88	8.77	9.10	9.30	-	358.75	355.19	374.01	383.16	-
Partitions and fixtures .....	254	9.83	9.80	9.76	9.90	-	419.74	409.64	404.06	413.82	-
Miscellaneous furniture and fixtures .....	259	8.67	8.65	8.93	9.01	-	350.27	346.00	349.16	354.99	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	42.7	43.0	42.7	42.7	42.0	5.5	5.7	5.4	5.3	-
Flat glass .....	321	43.8	44.0	46.5	45.3	-	5.3	5.5	7.4	6.5	-
Glass and glassware, pressed or blown .....	322	41.8	41.9	41.7	41.9	-	4.7	4.7	4.8	4.7	-
Glass containers .....	3221	41.9	42.2	42.1	42.3	-	5.6	5.9	5.9	5.8	-
Pressed and blown glass, nec .....	3229	41.6	41.6	41.3	41.5	-	3.7	3.5	3.6	3.5	-
Products of purchased glass .....	323	41.9	42.5	40.9	41.4	-	3.6	3.7	3.6	3.7	-
Cement, hydraulic .....	324	41.8	41.5	41.6	42.1	-	3.9	3.4	4.2	3.8	-
Structural clay products .....	325	42.0	41.0	40.9	40.4	-	4.0	3.8	3.7	3.3	-
Pottery and related products .....	326	40.4	40.1	39.9	39.7	-	3.4	3.3	2.8	3.0	-
Concrete, gypsum, and plaster products .....	327	44.1	44.8	44.5	44.5	-	7.4	7.9	7.3	7.2	-
Concrete block and brick .....	3271	45.5	45.1	45.3	45.2	-	7.7	7.9	7.2	7.1	-
Concrete products, nec .....	3272	44.1	44.1	43.9	43.5	-	6.8	6.7	6.6	6.3	-
Ready-mixed concrete .....	3273	43.3	45.0	44.1	44.5	-	7.4	8.5	7.5	7.4	-
Misc. nonmetallic mineral products .....	329	42.6	42.5	42.2	42.5	-	5.4	5.5	4.9	4.9	-
Abrasive products .....	3291	42.1	42.1	42.2	42.5	-	3.5	3.7	3.5	3.3	-
Asbestos products .....	3292	43.0	42.5	39.7	40.3	-	5.0	6.3	3.6	3.2	-
Primary metal industries .....	33	42.8	42.4	42.5	43.2	42.9	5.2	4.8	5.2	5.5	-
Blast furnaces and basic steel products .....	331	43.1	42.5	43.2	44.0	43.9	5.3	5.0	5.8	6.2	-
Blast furnaces and steel mills .....	3312	43.5	42.8	43.4	44.3	-	5.4	5.2	6.0	6.4	-
Steel pipe and tubes .....	3317	41.5	42.0	44.1	44.4	-	4.8	4.8	5.9	6.1	-
Iron and steel foundries .....	332	42.5	41.7	41.8	42.8	-	4.8	4.3	4.8	5.2	-
Gray and ductile iron foundries .....	3321	42.5	41.8	42.5	43.1	-	5.1	4.6	5.0	5.4	-
Malleable iron foundries .....	3322	41.6	40.4	44.0	44.1	-	3.6	3.0	5.4	5.8	-
Steel foundries, nec .....	3325	41.8	40.9	39.3	42.0	-	4.3	4.0	4.1	5.1	-
Primary nonferrous metals .....	333	43.3	44.0	43.1	43.4	-	5.0	5.2	4.9	5.1	-
Primary aluminum .....	3334	42.9	43.5	42.8	43.0	-	5.1	5.3	5.2	5.2	-
Nonferrous rolling and drawing .....	335	43.9	43.2	43.1	43.5	-	6.7	5.9	5.9	6.2	-
Copper rolling and drawing .....	3351	44.8	43.2	43.9	43.7	-	7.0	5.4	6.1	6.6	-
Aluminum sheet, plate, and foil .....	3353	43.8	42.6	43.9	44.7	-	8.3	7.2	7.7	8.6	-
Nonferrous wire drawing and insulating .....	3357	43.2	42.8	42.3	43.1	-	6.0	5.7	5.4	5.5	-
Nonferrous foundries (castings) .....	336	40.1	40.2	40.1	40.7	-	3.3	3.0	2.9	3.1	-
Aluminum foundries .....	3365	40.2	41.2	40.5	40.8	-	2.9	3.1	3.1	2.9	-
Fabricated metal products .....	34	41.7	41.5	41.3	41.8	41.6	4.1	3.9	3.9	4.1	-
Metal cans and shipping containers .....	341	44.0	43.2	43.9	43.4	-	6.4	5.8	5.5	5.7	-
Metal cans .....	3411	44.4	43.4	44.1	43.8	-	6.6	5.9	5.5	5.7	-
Cutlery, handtools, and hardware .....	342	41.5	41.2	40.7	41.1	-	3.5	3.3	3.1	3.2	-
Hand and edge tools, and blades and handsaws ...	3423,5	41.2	41.6	40.3	40.1	-	3.0	3.4	2.8	2.8	-
Hardware, nec .....	3429	41.1	40.4	40.4	41.2	-	3.5	3.0	2.9	3.3	-
Plumbing and heating, except electric .....	343	41.3	41.7	40.7	40.2	-	3.6	3.6	3.3	3.1	-
Plumbing fixture fittings and trim .....	3432	40.4	40.6	39.9	39.6	-	2.5	2.5	2.6	2.7	-
Heating equipment, except electric .....	3433	42.8	43.2	40.6	40.3	-	4.6	4.6	3.3	2.9	-
Fabricated structural metal products .....	344	41.5	41.4	41.2	41.3	-	4.1	3.9	3.9	3.8	-
Fabricated structural metal .....	3441	42.9	42.9	42.5	42.5	-	5.3	5.0	4.9	4.8	-
Metal doors, sash, and trim .....	3442	39.8	39.9	39.4	39.2	-	2.9	2.7	2.5	2.2	-
Fabricated plate work (boiler shops) .....	3443	42.7	42.4	42.4	42.9	-	4.5	4.3	4.7	4.8	-
Sheet metal work .....	3444	40.4	40.7	40.8	40.7	-	3.2	3.2	3.5	3.5	-
Architectural metal work .....	3446	40.4	39.9	39.1	38.4	-	5.1	4.2	3.4	2.8	-
Screw machine products, bolts, etc .....	345	42.1	42.0	42.0	42.1	-	4.9	4.7	4.7	5.0	-
Screw machine products .....	3451	41.0	40.8	40.3	40.7	-	4.0	3.8	3.4	3.7	-
Bolts, nuts, rivets, and washers .....	3452	43.3	43.2	43.8	43.7	-	5.9	5.5	6.0	6.3	-
Metal forgings and stampings .....	346	42.3	42.0	41.8	43.2	-	4.6	4.2	4.0	4.8	-
Iron and steel forgings .....	3462	41.9	41.6	42.0	42.7	-	4.3	4.0	4.3	4.3	-
Automotive stampings .....	3465	43.3	43.0	42.3	44.5	-	5.2	4.9	4.3	5.5	-
Metal stampings, nec .....	3469	40.9	40.7	41.0	41.4	-	3.6	3.3	3.4	3.9	-
Metal services, nec .....	347	41.0	40.9	40.5	41.5	-	3.6	3.5	3.8	4.3	-
Plating and polishing .....	3471	40.7	40.6	40.0	40.8	-	3.3	3.2	3.0	3.5	-
Metal coating and allied services .....	3479	41.5	41.4	41.5	42.8	-	4.2	4.1	5.2	5.7	-
Ordnance and accessories, nec .....	348	41.6	41.0	41.3	40.7	-	3.6	3.1	3.4	3.6	-
Ammunition, except for small arms, nec .....	3483	40.5	40.3	41.6	40.2	-	3.3	2.8	3.0	3.2	-
Misc. fabricated metal products .....	349	41.3	41.2	40.9	41.7	-	3.6	3.3	3.5	3.9	-
Valves and pipe fittings, nec .....	3494	40.6	40.9	43.4	43.3	-	3.4	3.2	4.0	4.3	-
Misc. fabricated wire products .....	3496	40.4	40.3	39.7	40.6	-	3.4	3.2	2.9	3.3	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$10.87	\$10.90	\$11.17	\$11.27	\$11.23	\$464.15	\$468.70	\$476.96	\$481.23	\$471.66
Flat glass .....	321	14.75	14.86	15.10	15.11	-	646.05	653.84	702.15	684.48	-
Glass and glassware, pressed or blown .....	322	12.05	12.01	12.49	12.55	-	503.69	503.22	520.83	525.85	-
Glass containers .....	3221	12.64	12.52	13.29	13.38	-	529.62	528.34	559.51	565.97	-
Pressed and blown glass, nec .....	3229	11.41	11.46	11.59	11.63	-	474.66	476.74	478.67	482.65	-
Products of purchased glass .....	323	9.39	9.61	9.79	9.85	-	393.44	408.43	400.41	407.79	-
Cement, hydraulic .....	324	13.67	13.66	13.65	13.78	-	571.41	566.89	567.84	580.14	-
Structural clay products .....	325	9.22	9.35	9.62	9.62	-	387.24	383.35	393.46	388.65	-
Pottery and related products .....	326	9.45	9.46	9.68	9.59	-	381.78	379.35	386.23	380.72	-
Concrete, gypsum, and plaster products .....	327	10.66	10.66	10.86	11.03	-	470.11	477.57	483.27	490.84	-
Concrete block and brick .....	3271	9.83	9.87	9.70	9.79	-	447.27	445.14	439.41	442.51	-
Concrete products, nec .....	3272	9.64	9.57	9.79	9.91	-	425.12	422.04	429.78	431.09	-
Ready-mixed concrete .....	3273	11.43	11.46	11.69	11.91	-	494.92	515.70	515.53	530.00	-
Misc. nonmetallic mineral products .....	329	11.40	11.40	11.60	11.74	-	485.64	484.50	489.52	498.95	-
Abrasive products .....	3291	10.16	10.19	10.29	10.43	-	427.74	429.00	434.24	443.28	-
Asbestos products .....	3292	11.17	11.18	11.19	11.15	-	480.31	475.15	444.24	449.35	-
Primary metal industries .....	33	12.54	12.50	12.94	13.05	13.07	536.71	530.00	549.95	563.76	560.70
Blast furnaces and basic steel products .....	331	14.40	14.42	14.86	14.99	15.07	620.64	612.85	641.95	659.56	661.57
Blast furnaces and steel mills .....	3312	15.17	15.19	15.61	15.75	-	659.90	650.13	677.47	697.73	-
Steel pipe and tubes .....	3317	11.32	11.43	11.98	12.07	-	469.78	480.06	528.32	535.91	-
Iron and steel foundries .....	332	11.18	11.16	11.52	11.68	-	475.15	465.37	481.54	499.90	-
Gray and ductile iron foundries .....	3321	11.69	11.61	11.94	12.16	-	496.83	485.30	507.45	524.10	-
Malleable iron foundries .....	3322	12.33	12.25	12.54	12.28	-	512.93	494.90	551.76	541.55	-
Steel foundries, nec .....	3325	10.50	10.58	10.84	11.12	-	438.90	432.72	426.01	467.04	-
Primary nonferrous metals .....	333	13.93	13.91	14.60	14.51	-	603.17	612.04	629.26	629.73	-
Primary aluminum .....	3334	14.27	14.27	14.74	14.57	-	612.18	620.75	630.87	626.51	-
Nonferrous rolling and drawing .....	335	12.01	11.90	12.27	12.42	-	527.24	514.08	528.84	540.27	-
Copper rolling and drawing .....	3351	11.25	11.12	11.55	11.66	-	504.00	480.38	507.05	509.54	-
Aluminum sheet, plate, and foil .....	3353	14.49	14.30	15.08	15.38	-	634.66	609.18	662.01	687.49	-
Nonferrous wire drawing and insulating .....	3357	12.18	12.01	12.14	12.33	-	526.18	514.03	513.52	531.42	-
Nonferrous foundries (castings) .....	336	9.95	9.92	10.32	10.37	-	399.00	398.78	413.83	422.06	-
Aluminum foundries .....	3365	9.38	9.35	9.93	9.91	-	377.08	385.22	402.17	404.33	-
Fabricated metal products .....	34	10.68	10.61	10.84	10.94	10.96	445.36	440.32	447.69	457.29	455.94
Metal cans and shipping containers .....	341	14.01	13.78	14.30	14.31	-	616.44	595.30	627.77	621.05	-
Metal cans .....	3411	14.86	14.66	15.10	15.14	-	659.78	636.24	665.91	663.13	-
Cutlery, handtools, and hardware .....	342	10.59	10.58	10.77	10.83	-	439.49	435.90	438.34	445.11	-
Hand and edge tools, and blades and handsaws .....	3423,5	9.73	9.76	9.97	10.03	-	400.88	406.02	401.79	402.20	-
Hardware, nec .....	3429	11.00	10.98	11.09	11.16	-	452.10	443.59	448.04	459.79	-
Plumbing and heating, except electric .....	343	9.58	9.55	9.78	9.84	-	395.65	398.24	398.05	395.57	-
Plumbing fixture fittings and trim .....	3432	9.03	9.09	9.39	9.46	-	364.81	369.05	374.66	374.62	-
Heating equipment, except electric .....	3433	9.61	9.44	9.58	9.61	-	411.31	407.81	388.95	387.28	-
Fabricated structural metal products .....	344	9.99	9.93	10.17	10.22	-	414.59	411.10	419.00	422.09	-
Fabricated structural metal .....	3441	10.51	10.44	10.31	10.34	-	450.88	447.88	438.18	439.45	-
Metal doors, sash, and trim .....	3442	8.30	8.30	8.53	8.55	-	330.34	331.17	336.08	335.16	-
Fabricated plate work (boiler shops) .....	3443	10.76	10.74	11.02	11.05	-	459.45	455.38	467.25	474.05	-
Sheet metal work .....	3444	10.25	10.12	10.50	10.58	-	414.10	411.88	428.40	430.61	-
Architectural metal work .....	3446	9.30	9.26	10.01	10.05	-	375.72	369.47	391.39	385.92	-
Screw machine products, bolts, etc .....	345	10.42	10.37	10.77	10.82	-	438.68	435.54	452.34	455.52	-
Screw machine products .....	3451	9.82	9.79	10.14	10.17	-	402.62	399.43	408.64	413.92	-
Bolts, nuts, rivets, and washers .....	3452	11.01	10.94	11.38	11.46	-	476.73	472.61	498.44	500.80	-
Metal forgings and stampings .....	346	12.80	12.63	12.66	12.89	-	541.44	530.46	529.19	556.85	-
Iron and steel forgings .....	3462	13.32	13.11	12.91	12.96	-	558.11	545.38	542.22	553.39	-
Automotive stampings .....	3465	14.48	14.31	14.25	14.44	-	626.98	615.33	602.78	642.58	-
Metal stampings, nec .....	3469	9.90	9.88	10.16	10.35	-	404.91	402.12	416.56	428.49	-
Metal services, nec .....	347	8.56	8.59	9.03	9.11	-	350.96	351.33	365.72	378.07	-
Plating and polishing .....	3471	8.55	8.56	8.95	9.02	-	347.99	347.54	358.00	368.02	-
Metal coating and allied services .....	3479	8.59	8.65	9.18	9.26	-	356.49	358.11	380.97	396.33	-
Ordnance and accessories, nec .....	348	11.77	11.74	11.89	11.97	-	489.63	481.34	491.06	487.18	-
Ammunition, except for small arms, nec .....	3483	11.63	11.63	11.62	11.82	-	471.02	468.69	483.39	475.16	-
Misc. fabricated metal products .....	349	10.04	10.02	10.19	10.32	-	414.65	412.82	416.77	430.34	-
Valves and pipe fittings, nec .....	3494	10.57	10.57	10.40	10.51	-	429.14	432.31	451.36	455.08	-
Misc. fabricated wire products .....	3496	8.52	8.53	8.86	8.98	-	344.21	343.76	351.74	364.59	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	42.3	42.0	41.6	42.3	42.0	4.3	4.0	3.9	4.3	-
Engines and turbines .....	351	42.2	42.4	41.8	42.6	-	3.8	4.0	4.1	4.4	-
Turbines and turbine generator sets .....	3511	42.9	44.3	44.0	44.9	-	6.0	7.0	6.0	7.1	-
Internal combustion engines, nec .....	3519	41.9	41.7	41.0	41.8	-	3.0	3.0	3.4	3.4	-
Farm and garden machinery .....	352	41.3	41.1	40.8	41.5	-	3.7	3.2	3.4	3.9	-
Farm machinery and equipment .....	3523	42.0	41.5	41.5	42.2	-	4.3	3.8	4.1	4.3	-
Construction and related machinery .....	353	42.5	42.4	42.1	43.5	-	4.4	4.0	3.7	4.1	-
Construction machinery .....	3531	42.4	42.7	40.9	41.7	-	4.4	3.8	2.6	2.2	-
Mining machinery .....	3532	42.3	42.0	40.9	42.1	-	4.6	4.7	4.0	4.4	-
Oil and gas field machinery .....	3533	43.2	42.5	46.5	49.1	-	4.8	4.5	6.3	7.4	-
Conveyors and conveying equipment .....	3535	42.7	42.1	40.8	41.7	-	4.9	4.4	3.9	4.5	-
Industrial trucks and tractors .....	3537	41.0	40.9	40.4	41.5	-	3.1	3.0	2.5	2.8	-
Metalworking machinery .....	354	43.2	42.9	42.3	42.8	-	5.2	5.0	4.6	5.0	-
Machine tools, metal cutting types .....	3541	43.5	42.6	40.4	40.5	-	5.3	4.7	3.5	3.6	-
Machine tools, metal forming types .....	3542	43.7	43.4	41.7	43.2	-	5.9	5.5	3.6	4.8	-
Special dies, tools, jigs, and fixtures .....	3544	43.9	43.7	43.7	43.9	-	6.0	5.9	5.9	6.2	-
Machine tool accessories .....	3545	41.6	41.5	41.1	41.6	-	4.2	4.0	3.5	3.7	-
Power driven handtools .....	3546	43.0	42.7	41.4	42.8	-	3.8	3.8	3.4	4.1	-
Special industry machinery .....	355	42.1	42.0	41.6	41.9	-	4.9	4.3	3.9	4.2	-
Textile machinery .....	3552	42.7	42.8	42.1	42.2	-	4.2	3.9	3.6	3.6	-
Printing trades machinery .....	3555	37.6	38.2	38.4	37.4	-	4.7	3.3	4.0	3.8	-
Food products machinery .....	3556	41.9	41.5	41.4	41.8	-	4.4	4.0	3.8	4.0	-
General industrial machinery .....	356	42.2	41.8	41.5	42.3	-	4.4	4.1	3.9	4.5	-
Pumps and pumping equipment .....	3561	39.8	40.1	40.6	41.3	-	2.9	3.4	3.8	4.1	-
Ball and roller bearings .....	3562	43.8	43.1	43.2	44.2	-	5.9	5.3	5.8	6.5	-
Air and gas compressors .....	3563	44.1	43.6	43.3	43.8	-	5.5	4.5	4.4	4.6	-
Blowers and fans .....	3564	40.8	40.3	39.1	40.5	-	3.0	2.7	2.8	3.3	-
Speed changers, drives, and gears .....	3566	41.5	42.1	41.1	40.9	-	4.1	4.9	4.0	4.9	-
Power transmission equipment, nec .....	3568	42.3	42.0	41.4	42.3	-	4.9	4.6	3.6	4.3	-
Computer and office equipment .....	357	42.1	42.2	41.8	42.6	-	3.4	3.2	3.0	3.3	-
Electronic computers .....	3571	42.0	41.9	41.4	42.2	-	3.6	3.5	3.2	3.6	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	41.3	40.5	40.2	40.6	-	2.7	2.0	2.5	3.0	-
Refrigeration and service machinery .....	358	41.0	40.6	39.6	40.3	-	3.1	2.6	2.7	2.9	-
Refrigeration and heating equipment .....	3585	41.4	40.8	39.6	40.4	-	3.3	2.8	2.8	2.9	-
Misc. industrial and commercial machinery .....	359	42.5	42.1	41.8	42.3	-	4.7	4.5	4.6	4.9	-
Carburetors, pistons, rings, valves .....	3592	41.4	41.1	41.6	41.7	-	3.8	3.5	4.6	4.4	-
Scales, balances, and industrial machinery, nec .....	3596,9	42.4	42.0	41.9	42.3	-	4.7	4.5	4.6	5.0	-
Electronic and other electrical equipment .....	36	41.2	41.1	40.4	41.2	40.8	3.5	3.3	3.2	3.5	-
Electric distribution equipment .....	361	41.4	41.3	41.1	41.9	-	3.0	2.9	3.1	3.6	-
Transformers, except electronic .....	3612	41.8	41.5	41.9	42.5	-	3.1	3.1	3.5	4.0	-
Switchgear and switchboard apparatus .....	3613	40.9	41.2	40.2	41.4	-	3.0	2.8	2.6	3.1	-
Electrical industrial apparatus .....	362	42.1	41.7	41.4	42.2	-	4.0	3.6	3.2	3.4	-
Motors and generators .....	3621	42.3	41.6	41.0	41.6	-	4.5	4.0	3.1	3.3	-
Relays and industrial controls .....	3625	41.8	41.4	41.1	42.7	-	3.4	2.8	3.0	3.3	-
Household appliances .....	363	39.5	40.3	38.6	40.2	-	2.6	2.7	2.5	2.6	-
Household refrigerators and freezers .....	3632	36.0	38.1	34.3	38.6	-	1.6	1.8	2.0	1.8	-
Household laundry equipment .....	3633	39.0	40.1	40.7	40.9	-	1.3	1.4	3.2	2.6	-
Electric housewares and fans .....	3634	42.5	42.6	40.6	41.0	-	4.5	4.1	2.2	2.6	-
Electric lighting and wiring equipment .....	364	40.3	40.2	39.8	39.8	-	3.0	2.9	3.0	3.2	-
Electric lamps .....	3641	40.4	40.9	40.9	39.2	-	2.8	2.9	3.8	3.9	-
Current-carrying wiring devices .....	3643	39.9	39.9	39.1	39.3	-	2.8	2.9	2.7	2.7	-
Noncurrent-carrying wiring devices .....	3644	41.2	41.2	41.0	41.3	-	3.3	2.8	2.2	2.8	-
Residential lighting fixtures .....	3645	38.7	39.0	37.6	38.0	-	2.3	2.6	2.9	2.6	-
Household audio and video equipment .....	365	41.8	40.8	40.9	42.3	-	4.0	3.4	3.4	4.1	-
Household audio and video equipment .....	3651	41.3	39.8	41.1	42.4	-	3.2	2.4	2.7	3.4	-
Communications equipment .....	366	42.6	42.8	42.0	42.3	-	3.0	2.9	3.1	3.5	-
Telephone and telegraph apparatus .....	3661	44.0	44.3	43.2	43.9	-	3.4	3.2	3.6	4.3	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$11.46	\$11.48	\$11.80	\$11.93	\$11.91	\$484.76	\$482.16	\$490.88	\$504.64	\$500.22
Engines and turbines .....	351	14.02	14.12	14.61	14.69	-	591.64	598.69	610.70	625.79	-
Turbines and turbine generator sets .....	3511	14.45	14.62	15.00	15.10	-	619.91	647.67	660.00	677.99	-
Internal combustion engines, nec .....	3519	13.87	13.93	14.45	14.53	-	581.15	580.88	592.45	607.35	-
Farm and garden machinery .....	352	11.00	10.97	11.26	11.41	-	454.30	450.87	459.41	473.52	-
Farm machinery and equipment .....	3523	11.80	11.89	12.14	12.25	-	495.60	493.44	503.81	516.95	-
Construction and related machinery .....	353	11.59	11.65	11.81	11.99	-	492.58	493.96	497.20	521.57	-
Construction machinery .....	3531	12.93	13.00	13.32	13.59	-	548.23	555.10	544.79	566.70	-
Mining machinery .....	3532	11.53	11.63	11.92	11.97	-	487.72	488.46	487.53	503.94	-
Oil and gas field machinery .....	3533	11.22	11.26	11.14	11.39	-	484.70	478.55	518.01	559.25	-
Conveyors and conveying equipment .....	3535	10.32	10.28	10.62	10.80	-	440.66	432.79	433.30	450.36	-
Industrial trucks and tractors .....	3537	10.15	10.23	10.56	10.54	-	416.15	418.41	426.62	437.41	-
Metalworking machinery .....	354	11.95	11.96	12.31	12.45	-	516.24	513.08	520.71	532.86	-
Machine tools, metal cutting types .....	3541	11.81	11.80	12.25	12.37	-	513.74	502.68	494.90	500.99	-
Machine tools, metal forming types .....	3542	12.16	12.25	12.27	12.59	-	531.39	531.65	511.66	543.89	-
Special dies, tools, jigs, and fixtures .....	3544	12.71	12.69	12.97	13.13	-	557.97	554.55	566.79	576.41	-
Machine tool accessories .....	3545	10.59	10.60	10.93	11.05	-	440.54	439.90	449.22	459.68	-
Power driven handtools .....	3546	9.41	9.38	9.98	9.96	-	404.63	400.53	413.17	426.29	-
Special industry machinery .....	355	11.65	11.61	11.90	11.99	-	490.47	487.62	495.04	502.38	-
Textile machinery .....	3552	9.78	9.84	10.32	10.24	-	417.61	421.15	434.47	432.13	-
Printing trades machinery .....	3555	13.52	13.29	14.00	14.08	-	508.35	507.68	537.60	526.59	-
Food products machinery .....	3556	11.59	11.56	11.68	11.82	-	485.62	479.74	483.55	494.08	-
General industrial machinery .....	356	10.94	10.97	11.30	11.48	-	461.67	458.55	468.95	485.60	-
Pumps and pumping equipment .....	3561	11.30	11.30	11.92	11.95	-	449.74	453.13	483.95	493.54	-
Ball and roller bearings .....	3562	11.63	11.76	11.96	12.33	-	509.39	506.86	516.67	544.99	-
Air and gas compressors .....	3563	10.88	11.00	11.78	11.78	-	479.81	479.60	510.07	515.96	-
Blowers and fans .....	3564	9.85	9.81	9.90	10.09	-	401.88	395.34	387.09	408.65	-
Speed changers, drives, and gears .....	3566	11.51	11.63	11.57	11.77	-	477.67	489.62	475.53	481.39	-
Power transmission equipment, nec .....	3568	10.41	10.56	10.78	11.02	-	440.34	443.52	446.29	466.15	-
Computer and office equipment .....	357	11.00	11.06	11.50	11.49	-	463.10	466.73	480.70	489.47	-
Electronic computers .....	3571	11.47	11.63	11.97	11.87	-	481.74	487.30	495.56	500.91	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	10.18	10.24	10.99	11.07	-	420.43	414.72	441.80	449.44	-
Refrigeration and service machinery .....	358	10.67	10.63	11.03	11.22	-	437.47	431.58	436.79	452.17	-
Refrigeration and heating equipment .....	3585	10.73	10.71	11.24	11.43	-	444.22	436.97	445.10	461.77	-
Misc. industrial and commercial machinery .....	359	11.36	11.37	11.57	11.69	-	482.80	478.68	483.63	494.49	-
Carburetors, pistons, rings, valves .....	3592	13.26	13.28	12.45	12.52	-	548.96	545.81	517.92	522.08	-
Scales, balances, and industrial machinery, nec .....	3596,9	10.96	10.96	11.22	11.37	-	464.70	460.32	470.12	480.95	-
Electronic and other electrical equipment .....	36	10.13	10.08	10.33	10.43	10.45	417.36	414.29	417.33	429.72	426.36
Electric distribution equipment .....	361	9.66	9.68	10.29	10.39	-	399.92	399.78	422.92	435.34	-
Transformers, except electronic .....	3612	9.33	9.35	10.05	10.11	-	389.99	388.03	421.10	429.68	-
Switchgear and switchboard apparatus .....	3613	10.00	10.03	10.54	10.68	-	409.00	413.24	423.71	442.15	-
Electrical industrial apparatus .....	362	10.05	9.98	9.98	10.00	-	423.11	416.17	413.17	422.00	-
Motors and generators .....	3621	10.25	10.18	9.87	9.88	-	433.58	423.49	404.67	411.01	-
Relays and industrial controls .....	3625	9.79	9.70	10.15	10.20	-	409.22	401.58	417.17	435.54	-
Household appliances .....	363	10.00	10.05	10.07	10.21	-	395.00	405.02	388.70	410.44	-
Household refrigerators and freezers .....	3632	11.65	11.66	11.05	11.32	-	419.40	444.25	379.02	436.95	-
Household laundry equipment .....	3633	11.89	11.93	12.47	12.60	-	463.71	478.39	507.53	515.34	-
Electric housewares and fans .....	3634	7.49	7.49	7.53	7.54	-	318.33	319.07	305.72	309.14	-
Electric lighting and wiring equipment .....	364	9.92	9.90	10.11	10.22	-	399.78	397.98	402.38	406.76	-
Electric lamps .....	3641	11.31	11.29	11.42	11.44	-	456.92	461.76	467.08	448.45	-
Current-carrying wiring devices .....	3643	9.78	9.78	9.87	10.04	-	390.22	390.22	385.92	394.57	-
Noncurrent-carrying wiring devices .....	3644	9.45	9.50	9.37	9.41	-	389.34	391.40	384.17	388.63	-
Residential lighting fixtures .....	3645	7.32	7.38	7.61	7.57	-	283.28	287.82	286.14	287.66	-
Household audio and video equipment .....	365	9.47	9.33	9.82	10.04	-	395.85	380.66	401.64	424.69	-
Household audio and video equipment .....	3651	9.86	9.80	10.21	10.58	-	407.22	390.04	419.63	448.59	-
Communications equipment .....	366	11.18	11.09	11.06	11.23	-	476.27	474.65	464.52	475.03	-
Telephone and telegraph apparatus .....	3661	11.81	11.67	11.61	11.82	-	519.64	516.98	501.55	518.90	-

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Electronic and other electrical equipment—Continued</b>											
Electric components and accessories .....	367	40.6	40.5	39.8	40.5	-	3.7	3.5	3.4	3.6	-
Electron tubes .....	3671	41.3	42.6	41.8	41.6	-	3.7	3.9	3.9	3.8	-
Semiconductors and related devices .....	3674	40.5	40.8	39.4	40.8	-	4.6	4.3	4.4	4.6	-
Electronic components, nec .....	3679	40.4	40.2	39.4	39.9	-	3.1	2.9	2.4	2.7	-
Misc. electrical equipment and supplies .....	369	42.7	42.3	41.6	42.0	-	4.2	3.9	3.8	4.1	-
Storage batteries .....	3691	43.0	42.9	42.5	44.1	-	4.6	4.6	5.2	5.9	-
Engine electrical equipment .....	3694	43.4	42.5	41.2	41.3	-	4.7	4.1	3.6	3.8	-
Transportation equipment .....	37	42.8	41.3	41.8	42.9	42.5	4.8	4.4	4.3	4.8	-
Motor vehicles and equipment .....	371	43.4	43.0	42.4	44.0	43.5	4.9	4.6	4.6	5.4	-
Motor vehicles and car bodies .....	3711	43.6	43.9	41.9	44.2	-	5.0	5.0	4.3	5.3	-
Truck and bus bodies .....	3713	42.6	41.7	42.2	43.0	-	4.4	3.5	3.7	5.1	-
Motor vehicle parts and accessories .....	3714	43.6	42.8	43.0	44.4	-	5.2	4.6	5.1	5.8	-
Truck trailers .....	3715	40.3	40.0	41.2	41.5	-	2.7	2.1	3.7	3.3	-
Aircraft and parts .....	372	42.7	38.1	41.9	42.3	-	5.4	4.9	4.5	4.7	-
Aircraft .....	3721	42.7	35.1	41.3	41.4	-	5.6	4.6	4.0	4.1	-
Aircraft engines and engine parts .....	3724	42.9	43.0	42.3	43.5	-	5.6	5.7	5.4	6.0	-
Aircraft parts and equipment, nec .....	3728	42.5	39.2	42.5	42.7	-	5.1	4.7	4.7	4.6	-
Ship and boat building and repairing .....	373	40.6	40.2	40.1	40.1	-	3.2	2.6	3.1	2.9	-
Ship building and repairing .....	3731	41.4	40.9	41.0	41.1	-	3.5	2.8	3.6	3.2	-
Boat building and repairing .....	3732	39.4	39.1	38.3	37.8	-	2.8	2.3	2.2	2.3	-
Railroad equipment .....	374	44.1	42.7	40.0	42.5	-	4.9	4.3	3.5	4.1	-
Guided missiles, space vehicles, and parts .....	376	43.0	43.6	42.0	42.5	-	4.6	4.8	3.8	4.1	-
Guided missiles and space vehicles .....	3761	43.1	44.2	42.0	42.9	-	4.8	5.1	4.1	4.4	-
Misc. transportation equipment .....	379	40.4	40.0	39.6	39.5	-	2.8	2.7	2.9	3.0	-
Travel trailers and campers .....	3792	39.2	38.4	38.2	38.9	-	2.0	1.8	2.2	2.4	-
Instruments and related products .....	38	40.9	41.0	40.9	41.4	41.2	2.7	2.7	2.9	3.2	-
Search and navigation equipment .....	381	41.2	41.1	40.5	40.9	-	2.5	2.5	2.3	2.5	-
Measuring and controlling devices .....	382	41.0	41.3	41.2	41.9	-	2.6	2.6	2.7	3.0	-
Environmental controls .....	3822	39.9	40.0	40.6	41.0	-	2.2	2.0	2.6	2.7	-
Process control instruments .....	3823	42.1	41.5	42.1	42.2	-	3.6	3.5	3.9	4.0	-
Instruments to measure electricity .....	3825	40.0	41.3	41.6	42.5	-	2.1	2.1	2.0	2.2	-
Medical instruments and supplies .....	384	40.6	40.7	41.0	41.0	-	2.9	2.9	3.4	3.5	-
Surgical and medical instruments .....	3841	40.8	40.7	40.6	40.7	-	3.3	3.2	3.9	3.8	-
Surgical appliances and supplies .....	3842	40.2	40.6	40.9	41.0	-	2.4	2.5	2.9	3.3	-
Ophthalmic goods .....	385	39.5	39.0	39.0	39.1	-	2.8	2.7	2.5	2.7	-
Photographic equipment and supplies .....	386	42.4	42.0	42.1	42.6	-	3.3	3.0	3.6	4.3	-
Watches, clocks, watchcases, and parts .....	387	38.9	39.5	39.3	41.3	-	2.1	2.4	2.1	3.3	-
Miscellaneous manufacturing industries .....	39	39.3	39.7	39.7	40.0	40.1	2.9	3.0	2.8	3.0	-
Jewelry, silverware, and plated ware .....	391	38.6	39.4	38.9	39.3	-	2.5	3.5	2.4	2.9	-
Jewelry, precious metal .....	3911	38.5	39.5	38.6	38.7	-	2.5	3.7	2.7	2.9	-
Musical instruments .....	393	38.5	39.4	41.1	40.6	-	2.0	2.0	2.2	2.1	-
Toys and sporting goods .....	394	39.2	39.6	39.9	40.4	-	2.6	2.7	3.0	3.2	-
Dolls, games, toys, and children's vehicles .....	3942,4	38.7	39.1	39.8	40.0	-	1.9	2.5	2.6	2.6	-
Sporting and athletic goods, nec .....	3949	39.6	40.0	40.0	40.8	-	3.2	2.9	3.2	3.6	-
Pens, pencils, office, and art supplies .....	395	40.7	41.0	40.7	40.8	-	2.9	3.1	2.5	2.5	-
Costume jewelry and notions .....	396	38.3	39.6	40.6	40.1	-	3.5	3.0	3.9	2.9	-
Costume jewelry .....	3961	37.7	40.0	41.7	40.8	-	4.1	3.7	5.2	3.6	-
Miscellaneous manufactures .....	399	39.7	39.8	39.4	39.6	-	3.1	3.0	2.7	3.1	-
Signs and advertising specialties .....	3993	40.2	40.4	39.8	40.3	-	3.4	3.6	3.0	3.4	-
<b>Nondurable goods</b> .....		40.5	40.3	40.3	40.6	40.3	4.1	3.8	3.9	4.1	3.8
Food and kindred products .....	20	41.5	41.1	41.5	41.9	41.0	5.4	4.8	5.3	5.6	-
Meat products .....	201	41.8	41.1	40.4	41.2	-	5.5	4.9	4.6	5.2	-
Meat packing plants .....	2011	43.3	42.3	41.4	42.6	-	6.9	5.7	5.2	6.4	-
Sausages and other prepared meats .....	2013	41.7	41.1	41.9	42.3	-	5.7	4.8	5.5	6.0	-
Poultry slaughtering and processing .....	2015	40.8	40.3	39.2	39.9	-	4.5	4.4	3.8	4.1	-
Dairy products .....	202	41.4	40.7	40.5	41.7	-	4.7	4.0	4.4	4.9	-
Cheese, natural and processed .....	2022	39.6	39.5	38.9	40.1	-	3.9	3.4	3.5	4.0	-
Fluid milk .....	2026	42.4	41.5	41.1	42.7	-	5.4	4.7	4.6	5.5	-
Preserved fruits and vegetables .....	203	41.3	40.7	42.6	43.4	-	6.5	5.3	6.8	7.3	-
Canned specialties .....	2032	44.1	44.2	44.8	45.7	-	8.5	8.9	7.0	9.4	-
Canned fruits and vegetables .....	2033	41.0	39.9	43.5	43.6	-	7.4	5.7	7.6	7.9	-
Frozen fruits and vegetables .....	2037	41.4	41.5	40.8	44.1	-	6.3	5.6	6.3	8.0	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Oct. 1990 <sup>P</sup>
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electronic components and accessories .....	367	\$9.70	\$9.65	\$10.08	\$10.12	-	\$393.82	\$390.83	\$401.18	\$409.86	-
Electron tubes .....	3671	11.21	11.16	12.10	12.10	-	462.97	475.42	505.78	503.36	-
Semiconductors and related devices .....	3674	11.94	11.73	12.32	12.38	-	483.57	478.58	485.41	505.10	-
Electronic components, nec .....	3679	9.12	9.08	9.49	9.50	-	368.45	365.02	373.91	379.05	-
Misc. electrical equipment and supplies .....	369	11.12	11.03	11.33	11.46	-	474.82	466.57	471.33	481.32	-
Storage batteries .....	3691	12.08	11.92	12.56	12.74	-	519.44	511.37	533.80	561.83	-
Engine electrical equipment .....	3694	11.87	11.82	12.03	12.18	-	515.16	502.35	495.64	503.03	-
Transportation equipment .....	37	13.86	13.82	14.07	14.31	\$14.42	593.21	570.77	588.13	613.90	\$612.85
Motor vehicles and equipment .....	371	14.45	14.42	14.54	14.85	15.00	627.13	620.06	616.50	653.40	652.50
Motor vehicles and car bodies .....	3711	16.77	16.80	17.19	17.54	-	731.17	737.52	720.26	775.27	-
Truck and bus bodies .....	3713	12.14	11.92	12.27	12.82	-	517.16	497.06	517.79	551.26	-
Motor vehicle parts and accessories .....	3714	13.42	13.38	13.51	13.70	-	585.11	572.66	580.93	608.28	-
Truck trailers .....	3715	9.47	9.41	9.67	9.74	-	381.64	376.40	398.40	404.21	-
Aircraft and parts .....	372	14.34	14.35	14.82	14.94	-	612.32	546.74	620.96	631.96	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$14.62	\$14.56	\$14.89	\$15.10	-	\$627.20	\$626.08	\$629.85	\$656.85	-
Aircraft parts and equipment, nec .....	3728	12.88	12.84	13.44	13.51	-	547.40	503.33	571.20	576.88	-
Ship and boat building and repairing .....	373	10.62	10.60	10.99	11.08	-	431.17	426.12	440.70	444.31	-
Ship building and repairing .....	3731	11.54	11.49	11.89	11.92	-	477.76	469.94	487.49	489.91	-
Boat building and repairing .....	3732	9.04	9.02	9.02	9.15	-	356.18	352.68	345.47	345.87	-
Railroad equipment .....	374	12.90	12.97	13.39	13.61	-	568.89	553.82	535.60	578.43	-
Guided missiles, space vehicles, and parts .....	376	13.93	13.94	14.52	14.66	-	598.99	607.78	609.84	623.05	-
Guided missiles and space vehicles .....	3761	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Misc. transportation equipment .....	379	\$10.77	\$10.75	\$10.79	\$10.89	-	\$435.11	\$430.00	\$427.28	\$430.16	-
Travel trailers and campers .....	3792	9.29	9.31	9.02	8.85	-	364.17	357.50	344.56	344.27	-
Instruments and related products .....	38	10.94	10.97	11.35	11.47	\$11.48	447.45	449.77	464.22	474.86	\$472.98
Search and navigation equipment .....	381	14.03	14.06	14.77	14.80	-	578.04	577.87	598.19	605.32	-
Measuring and controlling devices .....	382	10.30	10.38	10.74	10.86	-	422.30	428.69	442.49	455.03	-
Environmental controls .....	3822	9.22	9.24	9.47	9.60	-	367.88	369.60	384.48	393.60	-
Process control instruments .....	3823	9.81	9.91	10.64	10.74	-	413.00	411.27	447.94	453.23	-
Instruments to measure electricity .....	3825	10.46	10.50	10.83	11.04	-	418.40	433.65	450.53	469.20	-
Medical instruments and supplies .....	384	9.46	9.49	9.86	10.03	-	384.08	386.24	404.26	411.23	-
Surgical and medical instruments .....	3841	9.44	9.51	9.95	10.13	-	385.15	387.06	403.97	412.29	-
Surgical appliances and supplies .....	3842	9.23	9.26	9.54	9.73	-	371.05	375.96	390.19	398.93	-
Ophthalmic goods .....	385	7.79	7.87	8.27	8.28	-	307.71	306.93	322.53	323.75	-
Photographic equipment and supplies .....	386	13.55	13.44	14.10	14.37	-	574.52	564.48	593.61	612.16	-
Watches, clocks, watchcases, and parts .....	387	7.44	7.46	7.76	7.69	-	289.42	294.67	304.97	317.60	-
Miscellaneous manufacturing industries .....	39	8.36	8.36	8.59	8.62	8.68	328.55	331.89	341.02	344.80	348.07
Jewelry, silverware, and plated ware .....	391	8.98	9.08	9.22	9.22	-	346.63	357.75	358.66	362.35	-
Jewelry, precious metal .....	3911	9.00	9.13	9.21	9.21	-	346.50	360.64	355.51	356.43	-
Musical instruments .....	393	8.43	8.50	8.65	8.71	-	324.56	334.90	355.52	353.63	-
Toys and sporting goods .....	394	7.68	7.66	8.01	8.00	-	301.06	303.34	319.60	323.20	-
Dolls, games, toys, and children's vehicles .....	3942,4	7.27	7.30	7.73	7.71	-	281.35	285.43	307.65	308.40	-
Sporting and athletic goods, nec .....	3949	8.01	7.94	8.22	8.22	-	317.20	317.60	328.80	335.38	-
Pens, pencils, office, and art supplies .....	395	8.34	8.50	8.85	8.84	-	339.44	348.50	360.20	360.67	-
Costume jewelry and notions .....	396	7.36	7.11	7.40	7.29	-	281.89	281.56	300.44	292.33	-
Costume jewelry .....	3961	6.62	6.29	6.70	6.44	-	249.57	251.60	279.39	262.75	-
Miscellaneous manufactures .....	399	8.92	8.93	9.08	9.18	-	354.12	355.41	357.75	363.53	-
Signs and advertising specialties .....	3993	9.72	9.72	9.83	9.93	-	390.74	392.69	391.23	400.18	-
<b>Nondurable goods</b>											
Food and kindred products .....	20	9.81	9.81	10.12	10.20	10.23	397.31	395.34	407.84	414.12	412.27
Meat products .....	201	7.90	7.78	7.98	8.00	-	330.22	319.76	322.39	329.60	-
Meat packing plants .....	2011	8.85	8.66	8.76	8.80	-	383.21	366.32	362.66	374.88	-
Sausages and other prepared meats .....	2013	9.38	9.19	9.28	9.39	-	391.15	377.71	388.83	397.20	-
Poultry slaughtering and processing .....	2015	6.67	6.65	6.93	6.88	-	272.14	268.00	271.66	274.51	-
Dairy products .....	202	10.36	10.28	10.54	10.66	-	428.90	418.40	426.87	444.52	-
Cheese, natural and processed .....	2022	9.67	9.55	9.67	9.77	-	382.93	377.23	376.16	391.78	-
Fluid milk .....	2026	10.76	10.71	11.00	11.14	-	456.22	444.47	452.10	475.68	-
Preserved fruits and vegetables .....	203	8.45	8.51	8.71	8.67	-	348.99	346.36	371.05	376.28	-
Canned specialties .....	2032	10.62	10.68	11.79	11.67	-	468.34	472.06	528.19	533.32	-
Canned fruits and vegetables .....	2033	8.51	8.54	8.80	8.52	-	348.91	340.75	382.80	371.47	-
Frozen fruits and vegetables .....	2037	7.51	7.58	7.70	7.93	-	310.91	314.57	314.16	349.71	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Grain mill products .....	204	44.8	44.2	45.3	46.1	-	6.5	5.9	6.5	7.2	-
Flour and other grain mill products .....	2041	49.5	47.8	49.5	50.2	-	9.1	8.2	8.0	9.0	-
Prepared feeds, nec .....	2048	42.2	42.8	42.4	43.0	-	5.4	5.5	5.4	6.0	-
Bakery products .....	205	40.2	40.2	39.6	39.7	-	4.3	4.3	4.2	4.3	-
Bread, cake, and related products .....	2051	39.3	39.3	39.3	39.2	-	4.4	4.4	4.3	4.4	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	42.0	42.1	40.3	40.6	-	4.1	4.1	4.0	4.1	-
Sugar and confectionery products .....	206	41.5	41.3	41.3	40.9	-	4.6	4.6	4.4	4.4	-
Raw cane sugar .....	2061	45.0	47.8	41.9	43.3	-	3.8	7.0	4.0	4.7	-
Cane sugar refining .....	2062	50.9	50.9	45.9	49.5	-	13.4	12.8	9.3	12.0	-
Beet sugar .....	2063	38.8	41.3	40.0	37.9	-	5.3	5.8	3.5	4.6	-
Candy and other confectionery products .....	2064	40.3	39.7	40.3	39.7	-	3.7	3.5	3.8	3.5	-
Fats and oils .....	207	44.8	45.0	44.1	44.5	-	6.8	6.7	6.0	6.7	-
Beverages .....	208	41.4	41.5	41.7	42.7	-	4.2	4.3	4.9	5.3	-
Malt beverages .....	2082	42.9	42.9	43.3	43.8	-	6.0	5.8	7.0	6.9	-
Bottled and canned soft drinks .....	2086	40.7	40.2	41.7	41.9	-	3.4	2.9	4.4	4.4	-
Misc. food and kindred products .....	209	39.2	39.4	41.6	39.8	-	4.5	4.5	5.8	4.6	-
Tobacco products .....	21	40.3	40.3	39.4	40.9	40.4	3.0	3.2	1.7	3.3	-
Cigarettes .....	211	39.2	40.1	40.0	41.3	-	3.0	3.6	1.8	3.6	-
Textile mill products .....	22	41.0	40.9	40.3	40.4	40.2	4.2	4.1	3.9	3.9	-
Broadwoven fabric mills, cotton .....	221	41.9	42.0	39.9	40.8	-	4.7	4.9	4.6	4.6	-
Broadwoven fabric mills, synthetics .....	222	41.1	41.1	41.1	41.3	-	4.2	4.2	4.1	4.2	-
Broadwoven fabric mills, wool .....	223	40.7	39.8	40.7	39.1	-	3.4	2.9	3.2	2.8	-
Narrow fabric mills .....	224	41.2	40.3	40.5	40.6	-	3.4	3.3	2.9	2.9	-
Knitting mills .....	225	39.7	39.7	38.8	38.8	-	3.7	3.7	3.2	3.1	-
Women's hosiery, except socks .....	2251	38.7	39.0	37.1	37.8	-	2.8	2.9	2.9	2.8	-
Hosiery, nec .....	2252	39.4	38.9	38.8	38.0	-	3.2	3.1	2.3	2.0	-
Knit outerwear mills .....	2253	39.4	39.5	38.8	38.5	-	4.2	4.6	3.5	3.5	-
Knit underwear mills .....	2254	39.4	40.1	38.0	38.2	-	1.8	2.3	2.0	2.1	-
Weft knit fabric mills .....	2257	41.6	41.0	39.9	40.4	-	4.9	4.4	3.5	3.8	-
Textile finishing, except wool .....	226	42.3	42.0	41.2	42.2	-	5.2	5.1	4.8	5.3	-
Finishing plants, cotton .....	2261	43.6	43.0	41.0	42.6	-	5.6	5.3	4.6	5.5	-
Finishing plants, synthetics .....	2262	42.0	42.2	42.0	43.0	-	5.2	5.1	5.3	5.9	-
Carpets and rugs .....	227	41.9	42.1	42.8	43.0	-	4.5	4.4	4.9	4.9	-
Yarn and thread mills .....	228	40.7	40.7	40.1	39.9	-	4.1	4.0	3.8	3.5	-
Yarn spinning mills .....	2281	41.0	41.1	40.7	40.6	-	4.3	4.3	4.1	3.9	-
Throwing and winding mills .....	2282	38.0	38.1	36.3	36.2	-	2.7	2.7	2.4	1.8	-
Miscellaneous textile goods .....	229	42.3	42.0	41.8	41.5	-	4.5	4.3	4.1	3.9	-
Apparel and other textile products .....	23	36.9	37.1	36.7	36.7	36.7	2.0	2.0	1.7	1.8	-
Men's and boys' suits and coats .....	231	35.9	35.8	36.0	35.8	-	1.1	1.1	.9	.9	-
Men's and boys' furnishings .....	232	37.1	37.1	36.6	36.3	-	1.6	1.6	1.3	1.3	-
Men's and boys' shirts .....	2321	37.3	36.9	36.0	35.2	-	1.6	1.4	1.2	.9	-
Men's and boys' trousers and slacks .....	2325	36.1	35.8	35.8	35.6	-	1.5	1.4	1.3	1.4	-
Men's and boys' work clothing .....	2326	36.5	36.6	37.5	37.6	-	1.5	1.5	1.2	1.6	-
Women's and misses' outerwear .....	233	34.8	35.2	35.2	35.0	-	1.6	1.6	1.6	1.4	-
Women's and misses' blouses and shirts .....	2331	34.6	35.3	35.8	35.8	-	1.2	1.1	1.0	1.0	-
Women's, juniors', and misses' dresses .....	2335	34.1	33.8	34.1	33.5	-	1.6	1.5	1.4	1.0	-
Women's and misses' suits and coats .....	2337	35.6	34.7	36.1	35.6	-	2.3	2.0	2.4	2.2	-
Women's and misses' outerwear, nec .....	2339	34.9	35.9	35.4	35.3	-	1.5	1.7	1.6	1.5	-
Women's and children's undergarments .....	234	37.9	38.2	37.9	38.3	-	1.7	2.0	1.5	1.7	-
Women's and children's underwear .....	2341	38.4	38.8	38.5	38.7	-	1.8	2.1	1.7	1.7	-
Brassieres, girdles, and allied garments .....	2342	35.6	35.3	35.0	36.6	-	1.2	1.4	.5	1.5	-
Girl's and children's outerwear .....	236	37.4	37.4	36.6	36.5	-	1.8	1.9	1.4	1.4	-
Girl's and children's dresses and blouses .....	2361	36.9	37.6	36.4	36.5	-	1.7	2.1	1.8	1.9	-
Misc. apparel and accessories .....	238	38.1	38.0	36.9	37.5	-	2.4	2.7	1.3	1.7	-
Misc. fabricated textile products .....	239	39.7	39.7	39.2	39.8	-	3.4	3.4	2.9	3.4	-
Curtains and draperies .....	2391	36.6	36.5	36.6	36.5	-	2.4	2.2	1.4	1.8	-
House furnishings, nec .....	2392	40.5	40.7	39.3	40.3	-	3.5	3.9	3.0	3.9	-
Automotive and apparel trimmings .....	2396	40.5	41.5	41.5	41.9	-	4.0	4.4	4.1	4.5	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
<b>Food and kindred products—Continued</b>											
Grain mill products .....	204	\$11.48	\$11.36	\$11.69	\$11.64	-	\$514.30	\$502.11	\$529.56	\$536.60	-
Flour and other grain mill products .....	2041	10.95	10.89	10.87	10.77	-	542.03	520.54	538.07	540.65	-
Prepared feeds, nec .....	2048	8.83	8.77	8.99	9.14	-	372.63	375.36	381.18	393.02	-
Bakery products .....	205	10.49	10.48	10.93	10.87	-	421.70	421.30	432.83	431.54	-
Bread, cake, and related products .....	2051	10.49	10.47	10.93	10.98	-	412.26	411.47	429.55	430.42	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	10.48	10.49	10.91	10.68	-	440.16	441.63	439.67	433.61	-
Sugar and confectionery products .....	206	10.02	9.50	10.29	10.15	-	415.83	392.35	424.98	415.14	-
Raw cane sugar .....	2061	9.74	8.88	10.13	10.17	-	438.30	424.46	424.45	440.36	-
Cane sugar refining .....	2062	14.42	14.10	14.36	14.49	-	733.98	717.69	659.12	717.26	-
Beet sugar .....	2063	10.67	9.01	11.85	11.04	-	414.00	372.11	474.00	418.42	-
Candy and other confectionery products .....	2064	8.81	8.58	9.00	8.83	-	355.04	340.63	362.70	350.55	-
Fats and oils .....	207	10.19	9.85	10.20	10.29	-	456.51	443.25	449.82	457.91	-
Beverages .....	208	13.11	13.35	13.48	13.58	-	542.75	554.03	562.12	579.87	-
Malt beverages .....	2082	18.19	18.23	18.65	18.71	-	780.35	782.07	807.55	819.50	-
Bottled and canned soft drinks .....	2086	10.35	10.43	10.78	10.92	-	421.25	419.29	449.53	457.55	-
Misc. food and kindred products .....	209	8.89	8.82	8.95	8.99	-	348.49	347.51	372.32	357.80	-
Tobacco products .....	21	14.71	14.91	16.34	16.12	\$15.66	592.81	600.87	643.80	659.31	\$632.66
Cigarettes .....	211	18.97	19.13	19.41	19.86	-	743.62	767.11	776.40	820.22	-
Textile mill products .....	22	7.74	7.76	8.04	8.09	8.10	317.34	317.38	324.01	326.84	325.62
Broadwoven fabric mills, cotton .....	221	8.05	8.05	8.35	8.41	-	337.30	338.10	333.17	343.13	-
Broadwoven fabric mills, synthetics .....	222	8.39	8.39	8.66	8.73	-	344.83	344.83	355.93	360.55	-
Broadwoven fabric mills, wool .....	223	8.37	8.52	8.57	8.64	-	340.66	339.10	348.80	337.82	-
Narrow fabric mills .....	224	7.13	7.16	7.41	7.43	-	293.76	288.55	300.11	301.66	-
Knitting mills .....	225	7.08	7.12	7.40	7.42	-	281.08	282.66	287.12	287.90	-
Women's hosiery, except socks .....	2251	6.84	6.84	6.86	6.95	-	264.71	266.76	254.51	262.71	-
Hosiery, nec .....	2252	6.84	6.80	7.07	7.07	-	269.50	264.52	274.32	268.66	-
Knit outerwear mills .....	2253	6.84	6.94	7.31	7.33	-	269.50	274.13	283.63	282.21	-
Knit underwear mills .....	2254	6.99	7.08	7.40	7.38	-	275.41	283.91	281.20	281.92	-
Weft knit fabric mills .....	2257	7.76	7.75	8.04	8.05	-	322.82	317.75	320.80	325.22	-
Textile finishing, except wool .....	226	8.23	8.25	8.43	8.53	-	348.13	346.50	347.32	359.97	-
Finishing plants, cotton .....	2261	8.17	8.18	8.36	8.49	-	356.21	351.74	342.76	361.67	-
Finishing plants, synthetics .....	2262	8.57	8.56	8.79	8.87	-	359.94	361.23	369.18	381.41	-
Carpets and rugs .....	227	8.02	7.99	8.24	8.28	-	336.04	336.38	352.67	356.04	-
Yarn and thread mills .....	228	7.46	7.47	7.74	7.77	-	303.62	304.03	310.37	310.02	-
Yarn spinning mills .....	2281	7.45	7.47	7.73	7.78	-	305.45	307.02	314.61	315.87	-
Throwing and winding mills .....	2282	7.64	7.56	7.97	7.95	-	290.32	288.04	289.31	287.79	-
Miscellaneous textile goods .....	229	8.62	8.60	9.12	9.14	-	364.63	361.20	381.22	379.31	-
Apparel and other textile products .....	23	6.41	6.39	6.62	6.69	6.67	236.53	237.07	242.95	245.52	244.79
Men's and boys' suits and coats .....	231	7.16	7.25	7.33	7.28	-	257.04	259.55	263.88	260.62	-
Men's and boys' furnishings .....	232	5.82	5.81	6.07	6.11	-	215.92	215.55	222.16	221.79	-
Men's and boys' shirts .....	2321	5.72	5.73	5.98	5.99	-	213.36	211.44	215.28	210.85	-
Men's and boys' trousers and slacks .....	2325	5.74	5.71	5.96	6.02	-	207.21	204.42	213.37	214.31	-
Men's and boys' work clothing .....	2326	5.62	5.58	5.91	5.95	-	205.13	204.23	221.63	223.72	-
Women's and misses' outerwear .....	233	6.14	6.12	6.33	6.38	-	213.67	215.42	222.82	223.30	-
Women's and misses' blouses and shirts .....	2331	5.36	5.32	5.61	5.66	-	185.46	187.80	200.84	202.63	-
Women's, juniors', and misses' dresses .....	2335	6.52	6.53	6.79	6.80	-	222.33	220.71	231.54	227.80	-
Women's and misses' suits and coats .....	2337	6.64	6.59	7.05	7.11	-	236.38	228.67	254.51	253.12	-
Women's and misses' outerwear, nec .....	2339	6.07	6.06	6.14	6.20	-	211.84	217.55	217.36	218.86	-
Women's and children's undergarments .....	234	6.02	6.00	6.20	6.26	-	228.16	229.20	234.98	239.76	-
Women's and children's underwear .....	2341	5.86	5.83	6.09	6.15	-	225.02	226.20	234.47	238.01	-
Brassieres, girdles, and allied garments .....	2342	6.84	6.88	6.81	6.83	-	243.50	242.86	238.35	249.98	-
Girl's and children's outerwear .....	236	5.74	5.74	5.99	6.04	-	214.68	214.68	219.23	220.46	-
Girl's and children's dresses and blouses .....	2361	5.71	5.70	5.87	5.87	-	210.70	214.32	213.67	214.26	-
Misc. apparel and accessories .....	238	6.25	6.30	6.44	6.48	-	238.13	239.40	237.64	243.00	-
Misc. fabricated textile products .....	239	7.72	7.67	7.92	8.06	-	306.48	304.50	310.46	320.79	-
Curtains and draperies .....	2391	6.53	6.43	6.57	6.60	-	239.00	234.70	240.46	240.90	-
House furnishings, nec .....	2392	6.51	6.44	6.70	6.82	-	263.66	262.11	263.31	274.85	-
Automotive and apparel trimmings .....	2396	11.60	11.57	11.30	11.52	-	469.80	480.16	468.95	482.69	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products .....	26	43.7	43.4	43.2	43.6	43.8	5.1	4.9	4.9	5.3	-
Paper mills .....	262	45.7	45.4	44.5	45.0	-	4.9	4.8	5.1	5.6	-
Paperboard mills .....	263	45.7	45.3	45.1	45.9	-	7.9	7.6	6.9	7.3	-
Paperboard containers and boxes .....	265	43.3	43.0	42.9	43.4	-	5.2	4.9	5.0	5.5	-
Corrugated and solid fiber boxes .....	2653	44.4	44.1	43.4	44.3	-	5.8	5.5	5.5	6.4	-
Sanitary food containers .....	2656	43.1	41.5	44.5	44.1	-	4.8	4.1	4.9	4.7	-
Folding paperboard boxes .....	2657	42.0	42.0	42.5	42.3	-	4.7	4.5	4.9	5.0	-
Misc. converted paper products .....	267	42.4	42.1	42.1	42.3	-	4.5	4.4	4.2	4.4	-
Paper, coated and laminated, nec .....	2672	42.1	42.1	43.5	43.1	-	3.2	3.6	4.0	4.1	-
Bags: plastics, laminated, and coated .....	2673	42.6	42.4	41.6	41.8	-	5.2	5.4	4.8	5.2	-
Envelopes .....	2677	41.6	41.5	41.9	41.6	-	3.4	3.7	3.8	4.0	-
Printing and publishing .....	27	38.4	37.9	38.3	38.5	38.3	3.5	3.1	3.2	3.5	-
Newspapers .....	271	33.4	33.5	33.2	33.2	-	1.5	1.4	1.3	1.4	-
Periodicals .....	272	38.1	38.0	38.8	38.8	-	3.7	3.6	3.6	3.8	-
Books .....	273	39.1	38.4	39.4	39.5	-	3.7	3.0	3.4	3.8	-
Book publishing .....	2731	37.9	38.0	38.3	39.5	-	2.3	2.1	2.2	2.4	-
Book printing .....	2732	40.5	38.9	40.7	39.6	-	5.4	4.1	4.9	5.5	-
Miscellaneous publishing .....	274	36.0	35.8	37.3	36.3	-	2.0	1.8	2.2	1.9	-
Commercial printing .....	275	40.2	39.5	39.7	40.2	-	4.3	3.8	3.7	4.3	-
Commercial printing, lithographic .....	2752	40.0	39.3	39.4	39.9	-	4.3	3.8	3.8	4.4	-
Commercial printing, nec .....	2759	40.2	39.7	39.9	40.2	-	3.9	3.5	3.4	4.0	-
Manifold business forms .....	276	41.5	41.8	41.3	41.4	-	4.2	4.1	3.7	3.9	-
Blankbooks and bookbinding .....	278	37.8	37.1	38.2	38.6	-	3.1	3.0	2.9	3.4	-
Printing trade services .....	279	39.7	39.2	39.9	40.0	-	4.6	4.2	5.2	4.9	-
Chemicals and allied products .....	28	42.5	42.4	42.0	42.7	42.6	4.5	4.3	4.2	4.6	-
Industrial inorganic chemicals .....	281	42.7	42.8	42.2	43.1	-	4.4	4.3	4.3	4.4	-
Industrial inorganic chemicals, nec .....	2819	42.0	42.1	41.6	42.6	-	4.3	4.2	4.1	4.2	-
Plastics materials and synthetics .....	282	43.3	43.0	41.8	42.7	-	5.1	4.9	4.4	4.9	-
Plastics materials and resins .....	2821	43.6	43.9	43.5	44.1	-	5.3	5.4	5.4	5.8	-
Organic fibers, noncellulosic .....	2824	43.5	42.6	40.3	41.3	-	4.8	4.3	3.5	3.9	-
Drugs .....	283	41.6	41.5	41.2	41.9	-	3.9	3.9	3.7	4.1	-
Pharmaceutical preparations .....	2834	41.5	41.4	41.3	42.1	-	3.8	3.8	3.7	4.1	-
Soap, cleaners, and toilet goods .....	284	40.6	39.7	40.5	41.0	-	3.5	2.8	3.2	3.5	-
Soap and other detergents .....	2841	42.6	42.2	42.0	41.8	-	5.5	4.9	4.9	4.9	-
Polishing, sanitation, and finishing preparations .....	2842,3	42.0	41.1	41.6	41.9	-	3.7	3.7	3.5	4.0	-
Toilet preparations .....	2844	38.9	37.5	39.0	40.1	-	2.3	1.2	2.1	2.4	-
Paints and allied products .....	285	41.8	41.5	42.2	42.2	-	4.3	3.8	3.9	3.7	-
Industrial organic chemicals .....	286	44.5	45.0	44.6	45.3	-	5.6	5.7	5.6	5.8	-
Cyclic crudes and intermediates .....	2865	43.5	43.6	43.8	43.9	-	5.0	5.7	5.8	6.0	-
Industrial organic chemicals, nec .....	2869	44.8	45.5	44.9	45.8	-	5.8	5.8	5.6	5.8	-
Agricultural chemicals .....	287	43.8	43.6	42.9	44.5	-	5.4	5.6	4.5	5.5	-
Miscellaneous chemical products .....	289	42.4	42.6	42.2	42.3	-	4.1	4.3	4.5	4.8	-
Petroleum and coal products .....	29	44.4	45.2	43.8	45.2	44.5	5.9	6.9	5.9	6.5	-
Petroleum refining .....	291	44.3	44.5	42.8	44.7	-	5.2	6.0	4.8	5.7	-
Asphalt paving and roofing materials .....	295	46.3	48.7	48.1	48.0	-	9.3	10.8	10.3	9.9	-
Rubber and misc. plastics products .....	30	41.3	41.3	41.1	41.6	41.3	3.9	3.7	3.8	4.1	-
Tires and inner tubes .....	301	42.4	43.3	42.0	43.9	-	5.0	4.7	4.9	5.2	-
Rubber and plastics footwear .....	302	40.1	42.6	41.8	41.5	-	2.6	3.2	3.7	3.8	-
Hose, belting, gaskets, and packing .....	305	41.3	40.9	42.2	42.4	-	2.9	2.8	3.5	3.9	-
Rubber and plastics hose and belting .....	3052	42.6	41.4	41.6	42.3	-	3.6	3.2	3.2	4.1	-
Fabricated rubber products, nec .....	306	41.0	41.3	41.2	41.5	-	3.5	3.4	3.3	3.5	-
Miscellaneous plastics products, nec .....	308	41.2	41.1	40.8	41.3	-	3.9	3.7	3.8	4.0	-
Leather and leather products .....	31	38.2	37.9	38.0	37.5	37.3	2.2	2.3	2.1	2.0	-
Leather tanning and finishing .....	311	42.0	41.6	42.6	42.2	-	4.8	4.2	4.3	4.7	-
Footwear, except rubber .....	314	37.4	36.9	37.1	36.2	-	1.8	1.4	1.5	1.3	-
Men's footwear, except athletic .....	3143	37.9	37.4	37.2	36.3	-	1.4	1.2	1.0	1.2	-
Women's footwear, except athletic .....	3144	36.4	36.1	37.4	35.9	-	1.8	1.5	2.3	1.3	-
Luggage .....	316	39.9	40.0	39.2	40.4	-	2.9	3.3	2.8	2.7	-
Handbags and personal leather goods .....	317	37.8	37.9	37.7	38.0	-	2.4	4.5	1.8	2.3	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products .....	26	\$12.04	\$12.01	\$12.29	\$12.43	\$12.45	\$526.15	\$521.23	\$530.93	\$541.95	\$545.31
Paper mills .....	262	14.76	14.82	15.09	15.38	-	674.53	672.83	671.51	692.10	-
Paperboard mills .....	263	14.96	14.93	15.17	15.43	-	683.67	676.33	684.17	708.24	-
Paperboard containers and boxes .....	265	10.21	10.16	10.46	10.53	-	442.09	436.88	448.73	457.00	-
Corrugated and solid fiber boxes .....	2653	10.36	10.34	10.63	10.70	-	459.98	455.99	461.34	474.01	-
Sanitary food containers .....	2656	10.19	10.18	10.22	10.23	-	439.19	422.47	454.79	451.14	-
Folding paperboard boxes .....	2657	10.47	10.44	10.71	10.81	-	439.74	438.48	455.18	457.26	-
Misc. converted paper products .....	267	10.53	10.48	10.74	10.82	-	446.47	441.21	452.15	457.69	-
Paper, coated and laminated, nec .....	2672	11.77	11.70	12.06	12.27	-	495.52	492.57	524.61	528.84	-
Bags: plastics, laminated, and coated .....	2673	9.83	9.95	10.12	10.22	-	418.76	421.88	420.99	427.20	-
Envelopes .....	2677	9.81	9.83	10.23	10.29	-	408.10	407.95	428.64	428.06	-
Printing and publishing .....	27	11.07	11.06	11.30	11.41	11.37	425.09	419.17	432.79	439.29	435.47
Newspapers .....	271	10.96	10.93	11.25	11.28	-	366.06	366.16	373.50	374.50	-
Periodicals .....	272	11.69	11.89	11.98	12.06	-	445.39	451.82	464.82	467.93	-
Books .....	273	10.02	10.11	10.32	10.49	-	391.78	388.22	406.61	414.36	-
Book publishing .....	2731	9.64	9.77	10.27	10.40	-	365.36	371.26	393.34	410.80	-
Book printing .....	2732	10.47	10.53	10.38	10.59	-	424.04	409.62	422.47	419.36	-
Miscellaneous publishing .....	274	10.17	10.25	10.34	10.28	-	366.12	366.95	385.68	373.16	-
Commercial printing .....	275	11.36	11.30	11.60	11.72	-	456.67	446.35	460.52	471.14	-
Commercial printing, lithographic .....	2752	11.52	11.41	11.72	11.81	-	460.80	448.41	461.77	471.22	-
Commercial printing, nec .....	2759	10.96	11.00	11.27	11.50	-	440.59	436.70	449.67	462.30	-
Manifold business forms .....	276	11.43	11.37	11.75	11.80	-	474.35	475.27	485.28	488.52	-
Blankbooks and bookbinding .....	278	8.80	8.85	8.78	9.02	-	332.64	328.34	335.40	348.17	-
Printing trade services .....	279	13.40	13.33	13.82	13.82	-	531.98	522.54	551.42	552.80	-
Chemicals and allied products .....	28	13.20	13.27	13.57	13.63	13.76	561.00	562.65	569.94	582.00	586.18
Industrial inorganic chemicals .....	281	14.28	14.25	14.75	14.83	-	609.76	609.90	622.45	639.17	-
Industrial inorganic chemicals, nec .....	2819	14.38	14.43	14.93	15.06	-	603.96	607.50	621.09	641.56	-
Plastics materials and synthetics .....	282	13.58	13.57	14.02	14.16	-	588.01	583.51	586.04	604.63	-
Plastics materials and resins .....	2821	14.50	14.67	14.93	14.96	-	632.20	644.01	649.46	659.74	-
Organic fibers, noncellulosic .....	2824	12.88	12.59	13.23	13.31	-	560.28	536.33	533.17	549.70	-
Drugs .....	283	12.64	12.75	12.92	12.93	-	525.82	529.13	532.30	541.77	-
Pharmaceutical preparations .....	2834	12.59	12.74	12.88	12.89	-	522.49	527.44	531.94	542.67	-
Soap, cleaners, and toilet goods .....	284	11.22	11.44	11.79	11.78	-	455.53	454.17	477.50	482.98	-
Soap and other detergents .....	2841	15.17	15.29	15.56	15.65	-	646.24	645.24	653.52	654.17	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.33	10.35	10.51	10.49	-	433.86	425.39	437.22	439.53	-
Toilet preparations .....	2844	9.37	9.56	10.02	10.04	-	364.49	358.50	390.78	402.60	-
Paints and allied products .....	285	11.76	11.70	12.11	12.11	-	491.57	485.55	511.04	511.04	-
Industrial organic chemicals .....	286	15.80	15.86	15.99	16.01	-	703.10	713.70	713.15	725.25	-
Cyclic crudes and intermediates .....	2865	15.50	15.65	16.11	16.07	-	674.25	682.34	705.62	705.47	-
Industrial organic chemicals, nec .....	2869	16.08	16.10	16.14	16.17	-	720.38	732.55	724.69	740.59	-
Agricultural chemicals .....	287	13.18	13.31	13.67	13.86	-	577.28	580.32	586.44	616.77	-
Miscellaneous chemical products .....	289	12.10	12.06	12.40	12.51	-	513.04	513.76	523.28	529.17	-
Petroleum and coal products .....	29	15.41	15.60	16.06	16.42	16.56	684.20	705.12	703.43	742.18	736.92
Petroleum refining .....	291	16.63	16.81	17.45	17.83	-	736.71	748.05	746.86	797.00	-
Asphalt paving and roofing materials .....	295	12.50	12.87	13.18	13.38	-	578.75	626.77	633.96	642.24	-
Rubber and misc. plastics products .....	30	9.50	9.50	9.81	9.90	9.92	392.35	392.35	403.19	411.84	409.70
Tires and inner tubes .....	301	14.84	15.20	15.47	15.57	-	629.22	658.16	649.74	683.52	-
Rubber and plastics footwear .....	302	6.58	6.54	6.67	6.86	-	263.86	278.60	278.81	284.69	-
Hose, belting, gaskets, and packing .....	305	9.34	9.25	9.70	9.80	-	385.74	378.33	409.34	415.52	-
Rubber and plastics hose and belting .....	3052	9.67	9.55	9.93	9.95	-	411.94	395.37	413.09	420.89	-
Fabricated rubber products, nec .....	306	9.09	9.08	9.37	9.46	-	372.69	375.00	386.04	392.59	-
Miscellaneous plastics products, nec .....	308	8.92	8.88	9.19	9.25	-	367.50	364.97	374.95	382.03	-
Leather and leather products .....	31	6.65	6.65	6.85	6.97	7.01	254.03	252.04	260.30	261.38	261.47
Leather tanning and finishing .....	311	8.88	8.73	9.00	9.21	-	372.96	363.17	383.40	388.66	-
Footwear, except rubber .....	314	6.32	6.33	6.54	6.66	-	236.37	233.58	242.63	241.09	-
Men's footwear, except athletic .....	3143	6.80	6.75	7.08	7.26	-	257.72	252.45	263.38	263.54	-
Women's footwear, except athletic .....	3144	5.93	5.97	6.13	6.16	-	215.85	215.52	229.26	221.14	-
Luggage .....	316	6.83	6.80	6.72	6.98	-	272.52	272.00	263.42	281.99	-
Handbags and personal leather goods .....	317	6.04	6.04	5.96	6.07	-	228.31	228.92	224.69	230.66	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Transportation and public utilities</b> .....		38.9	39.0	39.2	39.3	38.8	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	42.3	42.5	46.3	45.8	-	-	-	-	-	-
Local and interurban passenger transit .....	41	33.3	33.7	34.7	32.8	-	-	-	-	-	-
Local and suburban transportation .....	411	37.8	38.2	38.2	37.9	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	39.3	40.4	39.1	39.4	-	-	-	-	-	-
Trucking and warehousing .....	42	38.8	39.0	39.1	39.2	-	-	-	-	-	-
Trucking and courier services, except air .....	421	38.7	38.9	39.1	39.2	-	-	-	-	-	-
Public warehousing and storage .....	422	39.3	39.9	39.2	39.4	-	-	-	-	-	-
Pipelines, except natural gas .....	46	41.5	40.7	41.9	42.2	-	-	-	-	-	-
Transportation services:											
Freight transportation arrangement .....	473	37.3	38.4	37.7	38.0	-	-	-	-	-	-
Communications .....	48	39.4	39.1	39.5	39.8	-	-	-	-	-	-
Telephone communications .....	481	41.0	40.6	41.2	41.3	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.0	35.5	34.6	35.4	-	-	-	-	-	-
Cable and other pay television services .....	484	37.7	37.4	38.8	38.8	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	42.0	42.3	41.4	42.0	-	-	-	-	-	-
Electric services .....	491	42.0	42.2	41.3	42.1	-	-	-	-	-	-
Gas production and distribution .....	492	42.4	43.0	41.9	42.7	-	-	-	-	-	-
Combination utility services .....	493	42.4	42.7	41.2	41.6	-	-	-	-	-	-
Sanitary services .....	495	41.8	42.0	42.0	42.3	-	-	-	-	-	-
<b>Wholesale trade</b> .....		38.1	38.2	38.1	38.3	38.2	-	-	-	-	-
Durable goods .....	50	38.5	38.7	38.7	38.8	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	37.5	37.8	38.1	38.1	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.1	36.9	37.2	37.6	-	-	-	-	-	-
Lumber and other construction materials .....	503	39.9	40.1	40.0	40.2	-	-	-	-	-	-
Professional and commercial equipment .....	504	38.7	38.8	38.8	39.0	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.1	40.4	40.2	40.6	-	-	-	-	-	-
Electrical goods .....	506	38.0	38.6	38.6	38.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.8	38.8	38.8	38.9	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.0	39.2	39.0	39.2	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	37.3	37.3	37.1	37.3	-	-	-	-	-	-
Nondurable goods .....	51	37.5	37.6	37.4	37.5	-	-	-	-	-	-
Paper and paper products .....	511	36.9	37.1	37.6	37.7	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	37.3	37.6	37.0	37.2	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.9	36.6	36.8	36.8	-	-	-	-	-	-
Groceries and related products .....	514	38.3	38.2	37.8	38.2	-	-	-	-	-	-
Chemicals and allied products .....	516	40.2	39.9	40.0	40.1	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.4	38.4	38.3	38.6	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	36.3	36.3	36.7	36.6	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	36.6	37.0	36.7	36.5	-	-	-	-	-	-
<b>Retail trade</b> .....		28.9	28.9	29.4	28.9	28.4	-	-	-	-	-
Building materials and garden supplies .....	52	36.5	36.3	36.6	36.4	-	-	-	-	-	-
Lumber and other building materials .....	521	38.2	38.2	38.5	38.3	-	-	-	-	-	-
Hardware stores .....	525	32.4	32.0	32.7	32.3	-	-	-	-	-	-
General merchandise stores .....	53	28.0	27.7	28.6	28.3	-	-	-	-	-	-
Department stores .....	531	27.9	27.6	28.5	28.2	-	-	-	-	-	-
Variety stores .....	533	28.0	28.0	28.7	28.0	-	-	-	-	-	-
Misc. general merchandise stores .....	539	28.4	28.2	29.5	29.2	-	-	-	-	-	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Transportation and public utilities</b> .....		\$12.73	\$12.74	\$12.96	\$13.04	\$13.03	\$495.20	\$496.86	\$508.03	\$512.47	\$505.56
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	16.21	16.10	15.98	16.05	-	685.68	684.25	739.87	735.09	-
Local and interurban passenger transit .....	41	8.90	9.00	9.20	9.08	-	296.37	303.30	319.24	297.82	-
Local and suburban transportation .....	411	9.62	9.69	9.79	9.85	-	363.64	370.16	373.98	373.32	-
Intercity and rural bus transportation .....	413	11.65	11.66	11.20	11.22	-	457.85	471.06	437.92	442.07	-
Trucking and warehousing .....	42	11.47	11.53	11.71	11.82	-	445.04	449.67	457.86	463.34	-
Trucking and courier services, except air .....	421	11.64	11.72	11.86	11.98	-	450.47	455.91	463.73	469.62	-
Public warehousing and storage .....	422	9.18	9.12	9.64	9.58	-	360.77	363.89	377.89	377.45	-
Pipelines, except natural gas .....	46	16.22	16.51	16.84	17.36	-	673.13	671.96	705.60	732.59	-
Transportation services:											
Freight transportation arrangement .....	473	11.50	11.56	12.07	12.28	-	428.95	443.90	455.04	466.64	-
Communications .....	48	13.33	13.25	13.60	13.62	-	525.20	518.08	537.20	542.08	-
Telephone communications .....	481	14.10	13.98	14.29	14.31	-	578.10	567.59	588.75	591.00	-
Radio and television broadcasting .....	483	12.24	12.24	12.70	12.72	-	428.40	434.52	439.42	450.29	-
Cable and other pay television services .....	484	10.09	10.07	10.59	10.60	-	380.39	376.62	410.89	411.28	-
Electric, gas, and sanitary services .....	49	14.85	15.03	15.12	15.39	-	623.70	635.77	625.97	646.38	-
Electric services .....	491	15.18	15.40	15.69	15.97	-	637.56	648.88	648.00	672.34	-
Gas production and distribution .....	492	13.76	14.21	14.11	14.49	-	583.42	611.03	591.21	618.72	-
Combination utility services .....	493	17.49	17.44	17.44	17.70	-	741.58	744.69	718.53	736.32	-
Sanitary services .....	495	11.46	11.45	11.51	11.70	-	479.03	480.90	483.42	494.91	-
<b>Wholesale trade</b> .....		10.48	10.51	10.77	10.94	10.90	399.29	401.48	410.34	419.00	416.38
Durable goods .....	50	10.78	10.84	11.13	11.32	-	415.03	419.51	430.73	439.22	-
Motor vehicles, parts, and supplies .....	501	9.65	9.71	9.98	10.13	-	361.88	367.04	380.24	385.95	-
Furniture and home furnishings .....	502	9.90	9.98	10.19	10.22	-	367.29	368.26	379.07	384.27	-
Lumber and other construction materials .....	503	10.19	10.23	10.48	10.64	-	406.58	410.22	419.20	427.73	-
Professional and commercial equipment .....	504	12.37	12.53	13.02	13.29	-	478.72	486.16	505.18	518.31	-
Metals and minerals, except petroleum .....	505	11.00	11.03	11.29	11.37	-	441.10	445.61	453.86	461.62	-
Electrical goods .....	506	11.23	11.30	11.39	11.67	-	426.74	436.18	439.65	452.80	-
Hardware, plumbing, and heating equipment .....	507	10.19	10.26	10.50	10.76	-	395.37	398.09	407.40	418.56	-
Machinery, equipment, and supplies .....	508	10.87	10.88	11.12	11.26	-	423.93	426.50	433.68	441.39	-
Misc. wholesale trade durable goods .....	509	8.58	8.58	8.86	8.96	-	320.03	320.03	328.71	334.21	-
Nondurable goods .....	51	10.05	10.03	10.26	10.38	-	376.88	377.13	383.72	389.25	-
Paper and paper products .....	511	10.85	10.83	10.97	11.23	-	400.37	401.79	412.47	423.37	-
Drugs, proprietaries, and sundries .....	512	11.64	11.69	11.87	12.21	-	434.17	439.54	439.19	454.21	-
Apparel, piece goods, and notions .....	513	9.81	9.79	9.93	10.02	-	361.99	358.31	365.42	368.74	-
Groceries and related products .....	514	10.19	10.18	10.43	10.49	-	390.28	388.88	394.25	400.72	-
Chemicals and allied products .....	516	12.67	12.62	12.41	12.67	-	509.33	503.54	496.40	508.07	-
Petroleum and petroleum products .....	517	10.08	10.13	10.14	10.27	-	387.07	388.99	388.36	396.42	-
Beer, wine, and distilled beverages .....	518	11.81	11.79	11.96	12.11	-	428.70	427.98	438.93	443.23	-
Misc. wholesale trade nondurable goods .....	519	8.35	8.34	8.62	8.75	-	305.61	308.58	316.35	319.38	-
<b>Retail trade</b> .....		6.59	6.61	6.75	6.86	6.86	190.45	191.03	198.45	198.25	194.82
Building materials and garden supplies .....	52	7.81	7.83	7.97	8.07	-	285.07	284.23	291.70	293.75	-
Lumber and other building materials .....	521	8.16	8.19	8.30	8.42	-	311.71	312.86	319.55	322.49	-
Hardware stores .....	525	6.52	6.55	6.73	6.78	-	211.25	209.60	220.07	218.99	-
General merchandise stores .....	53	6.65	6.71	6.80	6.86	-	186.20	185.87	194.48	194.14	-
Department stores .....	531	6.85	6.92	6.96	7.01	-	191.12	190.99	198.36	197.68	-
Variety stores .....	533	5.35	5.36	5.67	5.69	-	149.80	150.08	162.73	159.32	-
Misc. general merchandise stores .....	539	6.01	6.04	6.37	6.45	-	170.68	170.33	187.92	188.34	-

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Retail trade—Continued</b>											
Food stores .....	54	30.0	29.6	30.4	29.9	-	-	-	-	-	-
Grocery stores .....	541	30.2	29.7	30.5	30.1	-	-	-	-	-	-
Retail bakeries .....	546	29.0	28.9	29.4	28.9	-	-	-	-	-	-
Automotive dealers and service stations .....	55	36.2	36.2	36.6	36.3	-	-	-	-	-	-
New and used car dealers .....	551	37.0	37.0	37.4	37.2	-	-	-	-	-	-
Auto and home supply stores .....	553	38.2	38.3	38.8	38.5	-	-	-	-	-	-
Gasoline service stations .....	554	34.1	34.0	34.3	33.9	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.5	35.8	34.8	35.1	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.9	26.8	27.9	27.2	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	28.1	28.1	29.1	28.0	-	-	-	-	-	-
Women's clothing stores .....	562	24.7	24.4	24.9	24.3	-	-	-	-	-	-
Family clothing stores .....	565	26.9	27.0	28.1	27.5	-	-	-	-	-	-
Shoe stores .....	566	29.2	29.1	31.4	30.8	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	33.2	33.2	33.1	33.1	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.6	33.6	33.5	33.4	-	-	-	-	-	-
Household appliance stores .....	572	32.7	33.3	33.5	33.2	-	-	-	-	-	-
Radio, television, and computer stores .....	573	32.7	32.4	32.5	32.4	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	32.4	32.3	32.2	32.2	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	27.4	26.4	27.1	26.8	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.3	25.5	26.0	25.3	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	29.7	29.7	30.1	29.5	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	27.5	27.1	28.3	27.5	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	28.4	28.4	29.2	28.4	-	-	-	-	-	-
Nonstore retailers .....	596	33.2	33.1	33.2	32.7	-	-	-	-	-	-
Fuel dealers .....	598	37.9	38.9	36.6	37.0	-	-	-	-	-	-
Retail stores, nec .....	599	31.7	31.5	31.5	31.3	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		35.6	36.1	35.7	36.1	35.6	-	-	-	-	-
Depository institutions .....	60	35.4	35.8	35.6	36.0	-	-	-	-	-	-
Commercial banks .....	602	35.2	35.8	35.5	36.0	-	-	-	-	-	-
Credit unions .....	606	35.8	35.9	35.9	35.9	-	-	-	-	-	-
Nondepository institutions .....	61	37.3	38.2	37.5	38.3	-	-	-	-	-	-
Personal credit institutions .....	614	38.0	38.5	37.9	38.4	-	-	-	-	-	-
Security and commodity brokers: Security and commodity services .....	628	37.7	37.9	37.4	37.5	-	-	-	-	-	-
Insurance carriers .....	63	37.1	37.4	37.3	37.8	-	-	-	-	-	-
Life insurance .....	631	37.0	37.2	36.9	37.3	-	-	-	-	-	-
Medical service and health insurance .....	632	37.5	38.1	38.6	38.7	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	36.9	37.1	37.0	37.6	-	-	-	-	-	-
<b>Services</b> .....		32.5	32.8	32.8	32.7	32.4	-	-	-	-	-
Hotels and other lodging places: Hotels and motels <sup>4</sup> .....	701	31.3	31.8	31.6	31.3	-	-	-	-	-	-
Personal services: Laundry, cleaning, and garment services .....	721	34.1	34.4	34.0	33.9	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	29.5	29.5	29.4	29.3	-	-	-	-	-	-
Miscellaneous personal services .....	729	24.0	23.9	24.9	25.4	-	-	-	-	-	-
Business services .....	73	33.2	33.5	33.3	33.2	-	-	-	-	-	-
Advertising .....	731	36.4	37.0	36.5	36.5	-	-	-	-	-	-
Services to buildings .....	734	29.0	29.4	28.8	28.6	-	-	-	-	-	-
Personnel supply services: Help supply services .....	7363	30.6	30.7	31.2	30.6	-	-	-	-	-	-
Computer and data processing services .....	737	38.1	38.4	37.8	38.3	-	-	-	-	-	-
Miscellaneous business services .....	738	34.6	34.7	34.4	34.4	-	-	-	-	-	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Retail trade—Continued</b>											
Food stores .....	54	\$7.20	\$7.22	\$7.32	\$7.50	-	\$216.00	\$213.71	\$222.53	\$224.25	-
Grocery stores .....	541	7.29	7.31	7.40	7.59	-	220.16	217.11	225.70	228.46	-
Retail bakeries .....	546	6.13	6.14	6.32	6.40	-	177.77	177.45	185.81	184.96	-
Automotive dealers and service stations .....	55	8.78	8.69	9.03	9.16	-	317.84	314.58	330.50	332.51	-
New and used car dealers .....	551	10.97	10.73	11.29	11.45	-	405.89	397.01	422.25	425.94	-
Auto and home supply stores .....	553	7.64	7.65	7.77	7.86	-	291.85	293.00	301.48	302.61	-
Gasoline service stations .....	554	5.99	6.00	6.22	6.22	-	204.26	204.00	213.35	210.86	-
Automotive dealers, nec .....	559	10.56	10.62	10.78	10.92	-	374.88	380.20	375.14	383.29	-
Apparel and accessory stores .....	56	6.10	6.13	6.22	6.35	-	164.09	164.28	173.54	172.72	-
Men's and boys' clothing stores .....	561	7.46	7.54	7.49	7.71	-	209.63	211.87	217.96	215.88	-
Women's clothing stores .....	562	5.80	5.79	5.94	6.13	-	143.26	141.28	147.91	148.96	-
Family clothing stores .....	565	6.03	6.06	6.17	6.30	-	162.21	163.62	173.38	173.25	-
Shoe stores .....	566	6.11	6.09	6.09	6.14	-	178.41	177.22	191.23	189.11	-
Furniture and home furnishings stores .....	57	8.41	8.42	8.58	8.71	-	279.21	279.54	284.00	288.30	-
Furniture and home furnishings stores .....	571	8.30	8.27	8.46	8.53	-	278.88	277.87	283.41	284.90	-
Household appliance stores .....	572	8.77	8.78	8.88	9.05	-	286.78	292.37	297.48	300.46	-
Radio, television, and computer stores .....	573	8.49	8.56	8.69	8.93	-	277.62	277.34	282.43	289.33	-
Radio, television, and electronic stores .....	5731	8.59	8.50	8.75	9.00	-	278.32	274.55	281.75	289.80	-
Record and prerecorded tape stores .....	5735	4.85	5.00	5.31	5.36	-	132.89	132.00	143.90	143.65	-
Eating and drinking places <sup>4</sup> .....	58	4.80	4.81	4.98	5.02	-	121.44	122.66	129.48	127.01	-
Miscellaneous retail establishments .....	59	6.88	6.89	7.11	7.21	-	204.34	204.63	214.01	212.70	-
Drug stores and proprietary stores .....	591	6.54	6.58	6.76	6.90	-	179.85	178.32	191.31	189.75	-
Miscellaneous shopping goods stores .....	594	6.45	6.43	6.66	6.78	-	183.18	182.61	194.47	192.55	-
Nonstore retailers .....	596	7.78	7.69	7.97	7.93	-	258.30	254.54	264.60	259.31	-
Fuel dealers .....	598	9.32	9.57	9.69	9.79	-	353.23	372.27	354.65	362.23	-
Retail stores, nec .....	599	7.07	7.10	7.47	7.54	-	224.12	223.65	235.31	236.00	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		9.60	9.70	9.96	10.12	\$10.09	341.76	350.17	355.57	365.33	\$359.20
Depository institutions .....	60	8.18	8.27	8.50	8.61	-	289.57	296.07	302.60	309.96	-
Commercial banks .....	602	7.89	7.97	8.12	8.22	-	277.73	285.33	288.26	295.92	-
Credit unions .....	606	7.83	7.93	8.04	8.21	-	280.31	284.69	288.64	294.74	-
Nondepository institutions .....	61	9.90	10.04	10.31	10.56	-	369.27	383.53	386.63	404.45	-
Personal credit institutions .....	614	8.85	9.14	9.16	9.36	-	336.30	351.89	347.16	359.42	-
Security and commodity brokers: Security and commodity services .....	628	13.22	13.24	13.16	13.34	-	498.39	501.80	492.18	500.25	-
Insurance carriers .....	63	10.75	10.81	11.19	11.33	-	398.83	404.29	417.39	428.27	-
Life insurance .....	631	9.98	10.04	10.37	10.45	-	369.26	373.49	382.65	389.79	-
Medical service and health insurance .....	632	10.43	10.50	10.74	10.92	-	391.13	400.05	414.56	422.60	-
Fire, marine, and casualty insurance .....	633	11.52	11.57	12.02	12.16	-	425.09	429.25	444.74	457.22	-
<b>Services</b> .....		9.49	9.58	9.78	9.99	10.02	308.43	314.22	320.78	326.67	324.65
Hotels and other lodging places: Hotels and motels <sup>6</sup> .....	701	6.73	6.75	6.82	7.06	-	210.65	214.65	215.51	220.98	-
Personal services: Laundry, cleaning, and garment services .....	721	6.65	6.64	6.85	6.89	-	226.77	228.42	232.90	233.57	-
Beauty shops <sup>4</sup> .....	723	6.98	6.96	7.20	7.13	-	205.91	205.32	211.68	208.91	-
Miscellaneous personal services .....	729	7.28	7.20	7.31	7.42	-	174.72	172.08	182.02	188.47	-
Business services .....	73	9.17	9.23	9.53	9.65	-	304.44	309.21	317.35	320.38	-
Advertising .....	731	13.12	13.37	13.37	13.85	-	477.57	494.69	488.01	505.53	-
Services to buildings .....	734	7.11	7.05	7.25	7.27	-	206.19	207.27	208.80	207.92	-
Personnel supply services: Help supply services .....	7363	7.72	7.73	8.05	8.05	-	236.23	237.31	251.16	246.33	-
Computer and data processing services .....	737	14.32	14.56	15.09	15.32	-	545.59	559.10	570.40	586.76	-
Miscellaneous business services .....	738	7.74	7.75	7.92	8.06	-	267.80	268.93	272.45	277.26	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Oct. 1990 <sup>a</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking .....	75	36.7	37.0	37.3	36.9	-	-	-	-	-	-
Automotive repair shops .....	753	38.3	38.4	39.0	38.4	-	-	-	-	-	-
Miscellaneous repair services .....	76	37.8	37.7	38.2	38.2	-	-	-	-	-	-
Motion pictures .....	78	27.4	28.0	28.1	27.8	-	-	-	-	-	-
Motion picture production and services .....	781	34.8	36.7	35.1	35.8	-	-	-	-	-	-
Amusement and recreation services .....	79	27.1	27.2	28.3	26.6	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	26.5	26.5	28.5	26.0	-	-	-	-	-	-
Health services .....	80	32.5	32.6	32.7	32.7	-	-	-	-	-	-
Offices and clinics of medical doctors .....	801	31.8	32.1	32.0	31.9	-	-	-	-	-	-
Offices and clinics of dentists .....	802	28.3	28.5	28.5	28.4	-	-	-	-	-	-
Nursing and personal care facilities .....	805	31.9	32.2	32.0	32.7	-	-	-	-	-	-
Hospitals .....	806	34.1	34.0	34.5	34.2	-	-	-	-	-	-
Home health care services .....	808	25.3	25.4	25.3	25.9	-	-	-	-	-	-
Legal services .....	81	34.8	35.4	34.9	35.3	-	-	-	-	-	-
Engineering and management services .....	87	37.3	37.4	37.4	37.5	-	-	-	-	-	-
Engineering and architectural services .....	871	39.0	39.3	39.4	39.4	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	36.7	36.7	36.8	37.3	-	-	-	-	-	-
Research and testing services .....	873	36.7	36.7	36.5	36.4	-	-	-	-	-	-
Management and public relations .....	874	35.6	35.8	35.6	35.7	-	-	-	-	-	-
Services, nec .....	89	37.3	38.2	36.8	36.8	-	-	-	-	-	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking .....	75	\$8.58	\$8.57	\$8.82	\$8.88	-	\$314.89	\$317.09	\$328.99	\$327.67	-
Automotive repair shops .....	753	9.43	9.43	9.67	9.72	-	361.17	362.11	377.13	373.25	-
Miscellaneous repair services .....	76	10.08	10.16	10.31	10.39	-	381.02	383.03	393.84	396.90	-
Motion pictures .....	78	10.42	10.42	10.83	11.56	-	285.51	291.76	304.32	321.37	-
Motion picture production and services .....	781	15.96	15.65	16.70	17.50	-	555.41	574.36	586.17	626.50	-
Amusement and recreation services .....	79	7.75	8.20	7.65	8.31	-	210.03	223.04	216.50	221.05	-
Misc. amusement and recreation services .....	799	7.04	7.25	6.96	7.35	-	186.56	192.13	198.36	191.10	-
Health services .....	80	9.99	10.02	10.47	10.56	-	324.68	326.65	342.37	345.31	-
Offices and clinics of medical doctors .....	801	9.98	10.03	10.68	10.78	-	317.36	321.96	341.76	343.88	-
Offices and clinics of dentists .....	802	9.50	9.53	10.22	10.28	-	268.85	271.61	291.27	291.95	-
Nursing and personal care facilities .....	805	6.90	6.92	7.25	7.31	-	220.11	222.82	232.00	239.04	-
Hospitals .....	806	11.40	11.45	11.84	11.98	-	388.74	389.30	408.48	409.72	-
Home health care services .....	808	8.00	8.06	8.80	8.85	-	202.40	204.72	222.64	229.22	-
Legal services .....	81	13.41	13.69	14.09	14.36	-	466.67	484.63	491.74	506.91	-
Engineering and management services .....	87	13.18	13.35	13.51	13.84	-	491.61	499.29	505.27	519.00	-
Engineering and architectural services .....	871	14.21	14.34	14.61	15.00	-	554.19	563.56	575.63	591.00	-
Accounting, auditing, and bookkeeping .....	872	11.84	12.11	12.19	12.51	-	434.53	444.44	448.59	466.62	-
Research and testing services .....	873	13.73	13.88	13.99	14.36	-	503.89	509.40	510.64	522.70	-
Management and public relations .....	874	12.20	12.35	12.39	12.63	-	434.32	442.13	441.08	450.89	-
Services, nec .....	89	13.03	12.94	13.57	14.22	-	486.02	494.31	499.38	523.30	-

<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 C-2a 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 \$50,000,000 or more.

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

<sup>5</sup> Data for nonoffice sales agents are excluded from the nonsupervisory count for all series in this division.

- Data not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 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 bargain-

ing 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 C-2a 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.

Lump-sum payments are but one of several recent changes in the way that employees are compensated. The changes are widespread and they differ by industry. Because of these developments, the Bureau is conducting a broad-based review of all concepts and definitions used in its earnings and wage programs to determine the proper treatment of lump-sum payments and other new compensation practices.

**C-2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing**

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Aug. 1989	Sept. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Aug. 1989	Sept. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>
Average hourly earnings, excluding lump-sum payments .....	\$14.91	\$15.05	\$15.66	\$15.78	\$14.29	\$14.41	\$14.97	\$15.09
Average hourly earnings, including lump-sum payments .....	15.36	15.49	16.38	16.50	14.72	14.83	15.41	15.51

<sup>p</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-3. Average hourly earnings, excluding overtime,<sup>1</sup> of production workers on manufacturing payrolls**

Industry	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Manufacturing</b> .....	\$10.06	\$10.06	\$10.33	\$10.42	\$10.47
<b>Durable goods</b> .....	10.59	10.57	10.84	10.95	10.99
Lumber and wood products .....	8.55	8.56	8.74	8.81	(°)
Furniture and fixtures .....	8.09	8.10	8.27	8.33	(°)
Stone, clay, and glass products .....	10.21	10.22	10.50	10.61	(°)
Primary metal industries .....	11.82	11.82	12.20	12.27	(°)
Fabricated metal products .....	10.18	10.14	10.36	10.43	(°)
Industrial machinery and equipment .....	10.90	10.95	11.27	11.36	(°)
Electronic and other electrical equipment .....	9.71	9.69	9.93	10.00	(°)
Transportation equipment .....	13.12	13.12	13.39	13.56	(°)
Instruments and related products .....	10.59	10.62	10.97	11.05	(°)
Miscellaneous manufacturing .....	8.07	8.06	8.30	8.31	(°)
<b>Nondurable goods</b> .....	9.35	9.37	9.66	9.71	\$9.77
Food and kindred products .....	8.80	8.81	8.98	8.96	(°)
Tobacco products .....	14.18	14.35	15.99	15.49	(°)
Textile mill products .....	7.37	7.38	7.67	7.72	(°)
Apparel and other textile products .....	6.24	6.23	6.48	6.53	(°)
Paper and allied products .....	11.37	11.37	11.63	11.72	(°)
Printing and publishing .....	10.59	10.62	10.85	10.91	(°)
Chemicals and allied products .....	12.54	12.63	12.92	12.94	(°)
Petroleum and coal products .....	14.44	14.49	15.04	15.31	(°)
Rubber and misc. plastics products .....	9.08	9.10	9.37	9.44	(°)
Leather and leather products .....	6.46	6.46	6.66	6.78	(°)

<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 reflect the 1987

Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-4. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry, in current and constant (1982) dollars**

Industry	Average hourly earnings					Average weekly earnings				
	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>	Sept. 1989	Oct. 1989	Aug. 1990	Sept. 1990 <sup>p</sup>	Oct. 1990 <sup>p</sup>
<b>Total private:</b>										
Current dollars .....	\$9.77	\$9.81	\$10.00	\$10.17	\$10.17	\$339.02	\$341.39	\$348.00	\$353.92	\$349.85
Constant (1982) dollars .....	7.66	7.65	7.46	7.52	( <sup>1</sup> )	265.69	266.29	259.51	261.58	( <sup>1</sup> )
<b>Mining:</b>										
Current dollars .....	13.29	13.23	13.63	13.81	\$13.77	584.76	583.44	599.72	621.45	\$616.90
Constant (1982) dollars .....	10.42	10.32	10.16	10.21	( <sup>1</sup> )	458.28	455.10	447.22	459.31	( <sup>1</sup> )
<b>Construction:</b>										
Current dollars .....	13.65	13.71	13.74	13.92	\$13.90	526.89	537.43	535.86	544.27	\$528.20
Constant (1982) dollars .....	10.70	10.69	10.25	10.29	( <sup>1</sup> )	412.92	419.21	399.60	402.27	( <sup>1</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.56	10.54	10.82	10.94	\$10.96	435.07	431.09	441.46	451.82	\$449.36
Constant (1982) dollars .....	8.28	8.22	8.07	8.09	( <sup>1</sup> )	340.96	336.26	329.20	333.94	( <sup>1</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.73	12.74	12.96	13.04	\$13.03	495.20	496.86	508.03	512.47	\$505.56
Constant (1982) dollars .....	9.98	9.94	9.66	9.64	( <sup>1</sup> )	388.09	387.57	378.84	378.77	( <sup>1</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	10.48	10.51	10.77	10.94	\$10.90	399.29	401.48	410.34	419.00	\$416.38
Constant (1982) dollars .....	8.21	8.20	8.03	8.09	( <sup>1</sup> )	312.92	313.17	306.00	309.68	( <sup>1</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.59	6.61	6.75	6.86	\$6.86	190.45	191.03	198.45	198.25	\$194.82
Constant (1982) dollars .....	5.16	5.16	5.03	5.07	( <sup>1</sup> )	149.26	149.01	147.99	146.53	( <sup>1</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.60	9.70	9.96	10.12	\$10.09	341.76	350.17	355.57	365.33	\$359.20
Constant (1982) dollars .....	7.52	7.57	7.43	7.48	( <sup>1</sup> )	267.84	273.14	265.15	270.01	( <sup>1</sup> )
<b>Services:</b>										
Current dollars .....	9.49	9.58	9.78	9.99	\$10.02	308.43	314.22	320.78	326.67	\$324.65
Constant (1982) dollars .....	7.44	7.47	7.29	7.38	( <sup>1</sup> )	241.72	245.10	239.21	241.44	( <sup>1</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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**C-5. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>p</sup>	Oct. <sup>p</sup>
<b>Total private</b> .....	34.6	34.5	34.4	34.4	34.6	34.6	34.5	34.5	34.7	34.5	34.5	34.7	34.2
<b>Mining</b> .....	43.6	43.7	43.0	43.6	43.7	43.5	43.4	43.6	44.4	43.7	43.9	44.6	44.2
<b>Construction</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>Manufacturing</b> .....	40.8	40.7	40.6	40.7	40.8	40.8	40.7	40.9	41.0	40.9	41.0	41.1	40.8
<i>Overtime hours</i> .....	3.7	3.7	3.7	3.6	3.6	3.7	3.5	3.8	3.8	3.7	3.8	3.7	3.7
<b>Durable goods</b> .....	41.3	41.2	41.2	41.3	41.3	41.4	41.2	41.5	41.6	41.5	41.5	41.7	41.4
<i>Overtime hours</i> .....	3.7	3.7	3.7	3.6	3.6	3.8	3.5	3.9	3.9	3.8	3.9	3.8	3.7
Lumber and wood products .....	40.3	40.2	40.0	40.4	40.1	40.4	40.2	40.4	40.3	40.2	40.4	40.8	39.9
Furniture and fixtures .....	39.2	39.4	39.1	39.6	39.3	39.2	39.0	39.2	39.3	39.6	39.4	39.1	38.6
Stone, clay, and glass products .....	42.4	42.4	41.6	42.3	42.2	42.0	42.0	42.1	42.3	41.7	42.3	42.2	41.3
Primary metal industries .....	42.5	42.5	42.5	42.6	42.5	42.7	41.8	43.0	43.0	43.1	42.9	43.0	43.0
Blast furnaces and basic steel products ..	42.8	43.0	42.9	43.1	42.9	43.0	42.9	43.5	43.3	44.1	43.5	44.0	44.2
Fabricated metal products .....	41.4	41.3	41.2	41.1	41.4	41.5	41.2	41.7	41.6	41.7	41.6	41.6	41.4
Industrial machinery and equipment .....	42.1	42.2	42.1	42.1	42.1	42.0	41.8	42.1	42.0	42.0	42.1	42.2	42.1
Electronic and other electrical equipment ..	41.0	40.8	40.5	40.9	41.1	41.0	40.9	40.9	41.0	40.7	40.6	41.1	40.6
Transportation equipment .....	41.3	41.0	41.7	41.5	41.6	42.0	41.9	42.5	42.6	42.8	42.6	42.8	42.5
Motor vehicles and equipment .....	42.7	42.3	42.2	41.0	41.5	42.3	41.8	43.4	43.7	43.6	43.7	43.5	43.1
Instruments and related products .....	41.0	41.0	41.0	40.9	41.0	41.1	41.2	41.1	41.2	41.2	41.3	41.4	41.2
Miscellaneous manufacturing .....	39.3	39.7	39.3	39.5	39.5	39.4	39.2	39.4	39.4	39.5	39.9	40.0	39.7
<b>Nondurable goods</b> .....	40.1	40.1	40.0	40.0	40.0	40.0	40.0	40.1	40.3	40.1	40.2	40.2	40.1
<i>Overtime hours</i> .....	3.6	3.6	3.6	3.5	3.5	3.6	3.4	3.6	3.6	3.6	3.7	3.6	3.6
Food and kindred products .....	40.8	40.8	40.7	40.6	40.6	40.7	40.6	40.8	40.9	40.5	41.0	41.2	40.6
Tobacco 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> )
Textile mill products .....	40.6	40.4	40.2	40.3	40.2	40.0	40.0	40.2	40.4	40.2	40.0	39.9	39.9
Apparel and other textile products .....	36.9	36.8	36.4	36.6	36.6	36.3	36.4	36.6	36.7	36.6	36.6	36.6	36.5
Paper and allied products .....	43.3	43.4	43.2	43.2	43.1	43.2	43.3	43.3	43.5	43.5	43.5	43.1	43.7
Printing and publishing .....	37.8	37.9	37.7	37.9	37.9	38.0	37.8	37.9	38.0	38.0	38.2	38.0	38.2
Chemicals and allied products .....	42.5	42.4	42.6	42.7	42.4	42.5	42.6	42.6	42.6	42.4	42.3	42.7	42.7
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 .....	41.1	41.1	40.9	40.8	41.2	41.4	40.9	41.4	41.6	41.5	41.3	41.4	41.1
Leather and leather products .....	37.7	37.6	37.4	37.4	37.7	37.7	37.5	37.4	37.5	37.4	37.7	37.5	37.1
<b>Transportation and public utilities</b> .....	38.8	38.6	38.6	38.3	38.7	39.0	39.0	39.1	39.2	39.0	38.9	39.2	38.6
<b>Wholesale trade</b> .....	38.1	38.1	38.1	38.0	38.0	38.1	38.1	38.0	38.1	38.1	38.1	38.2	38.0
<b>Retail trade</b> .....	28.9	28.8	28.8	28.8	28.9	29.0	29.0	29.0	29.0	28.9	28.7	28.9	28.4
<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> .....	32.7	32.6	32.6	32.5	32.6	32.5	32.6	32.5	32.6	32.6	32.5	32.8	32.3

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

<sup>2</sup> These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.



**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**C-6. 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	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>p</sup>	Oct. <sup>p</sup>
<b>Total private</b> .....	123.4	123.5	123.3	123.6	124.4	124.4	124.2	124.6	125.3	124.8	124.6	125.3	123.3
<b>Goods-producing</b> .....	111.6	111.6	110.4	111.1	112.1	111.5	110.1	111.2	111.7	110.5	110.5	110.4	108.3
<b>Mining</b> .....	63.1	63.8	63.0	64.4	64.9	64.9	65.2	65.9	68.0	66.9	66.1	67.3	66.9
<b>Construction</b> .....	141.7	143.0	138.1	144.9	147.7	144.6	138.6	142.1	144.3	138.4	139.8	140.3	132.4
<b>Manufacturing</b> .....	108.3	108.0	107.6	106.8	107.6	107.5	107.0	107.5	107.6	107.4	107.1	106.8	105.8
<b>Durable goods</b> .....	107.9	107.4	107.1	105.9	107.2	107.3	106.5	107.3	107.1	107.1	106.5	106.1	104.8
Lumber and wood products .....	132.6	132.1	131.4	133.0	131.5	132.5	131.7	131.9	130.5	129.7	129.7	130.8	126.9
Furniture and fixtures .....	127.9	128.2	126.6	128.2	127.0	126.6	125.4	125.7	126.0	125.8	125.7	124.2	121.7
Stone, clay, and glass products .....	113.3	113.6	111.2	113.3	113.3	111.7	110.7	110.5	110.5	108.2	109.5	108.7	105.9
Primary metal industries .....	93.6	93.1	92.8	92.4	92.6	92.7	90.9	93.5	93.5	94.3	93.0	92.9	93.1
Blast furnaces and basic steel products .....	81.4	81.0	81.1	81.4	80.3	79.3	79.1	81.2	80.4	82.3	80.8	81.7	82.9
Fabricated metal products .....	108.9	108.3	107.7	106.1	107.4	107.7	107.2	108.3	107.8	108.5	108.1	107.4	106.4
Industrial machinery and equipment .....	99.2	99.8	99.5	99.7	99.4	98.8	98.2	98.9	98.4	98.5	98.1	97.1	96.7
Electronic and other electrical equipment .....	111.9	110.8	109.4	110.1	110.3	110.2	109.7	109.5	109.6	108.3	107.2	107.7	106.0
Transportation equipment .....	120.2	118.4	120.7	110.9	119.8	121.1	120.2	121.8	123.3	124.1	122.2	121.3	120.0
Motor vehicles and equipment .....	132.3	128.6	128.7	105.2	125.5	128.3	123.4	131.2	133.7	133.2	131.2	128.9	127.7
Instruments and related products .....	88.5	88.0	87.5	87.9	88.2	88.4	88.4	87.7	87.2	86.8	86.5	86.4	85.8
Miscellaneous manufacturing .....	104.3	104.6	104.3	105.9	105.6	104.6	102.9	104.2	102.7	104.5	104.8	105.0	103.9
<b>Nondurable goods</b> .....	109.0	108.8	108.3	108.2	108.0	107.8	107.6	107.9	108.2	107.7	108.0	107.9	107.3
Food and kindred products .....	108.9	108.8	108.4	108.4	108.3	108.5	108.7	109.2	108.7	107.9	109.7	110.4	108.9
Tobacco products .....	68.8	68.3	65.8	66.9	67.6	68.1	64.7	65.8	64.3	66.6	68.8	68.5	65.3
Textile mill products .....	104.9	103.9	103.1	103.0	102.2	101.2	101.2	100.9	101.2	100.6	100.1	99.1	98.1
Apparel and other textile products .....	97.3	96.8	95.5	95.2	94.4	92.7	92.9	92.9	93.0	92.4	92.4	92.3	91.6
Paper and allied products .....	110.2	110.5	110.2	110.4	110.3	110.4	110.8	110.4	111.4	111.6	111.8	110.5	112.1
Printing and publishing .....	126.4	127.2	127.0	128.0	128.1	128.4	127.6	128.1	128.6	129.0	129.6	128.3	128.7
Chemicals and allied products .....	105.0	104.8	105.3	105.4	104.4	104.3	104.6	104.6	104.4	104.3	103.2	104.3	104.7
Petroleum and coal products .....	87.5	88.4	87.9	86.9	88.4	89.2	88.0	88.0	93.0	88.3	88.0	89.6	87.6
Rubber and misc. plastics products .....	126.9	126.4	125.4	124.3	125.0	125.6	124.6	126.0	127.3	127.2	126.8	126.7	125.2
Leather and leather products .....	64.3	64.1	62.6	62.6	63.1	63.1	62.2	61.5	61.1	59.8	59.6	58.8	57.0
<b>Service-producing</b> .....	128.8	128.8	129.1	129.3	129.9	130.2	130.5	130.6	131.4	131.2	130.9	132.0	130.1
<b>Transportation and public utilities</b> .....	112.0	111.8	113.4	112.9	114.2	115.3	115.2	116.0	116.7	115.8	115.2	116.7	115.2
<b>Wholesale trade</b> .....	118.7	119.0	119.1	119.2	119.1	119.4	119.3	118.9	119.8	119.5	119.5	119.6	118.9
<b>Retail trade</b> .....	123.9	123.8	123.8	124.4	124.4	124.9	125.0	125.1	125.3	125.1	124.1	124.9	122.4
<b>Finance, insurance, and real estate</b> .....	121.8	121.1	121.0	121.4	122.2	122.3	122.6	122.5	122.9	123.1	122.9	124.3	121.9
<b>Services</b> .....	142.1	142.4	142.8	142.8	143.8	143.9	144.4	144.6	145.8	145.9	146.0	147.5	145.7

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

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

**C-7. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls, seasonally adjusted**

Industry	1989			1990									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>p</sup>	Oct. <sup>p</sup>
<b>Average hourly earnings</b>													
<b>Total private (in current dollars) .....</b>	\$9.78	\$9.78	\$9.83	\$9.82	\$9.88	\$9.93	\$9.96	\$9.98	\$10.03	\$10.07	\$10.09	\$10.13	\$10.13
<b>Mining .....</b>	13.32	13.32	13.40	13.33	13.33	13.51	13.59	13.58	13.73	13.79	13.73	13.82	13.87
<b>Construction .....</b>	13.61	13.66	13.76	13.55	13.63	13.66	13.62	13.71	13.73	13.76	13.78	13.82	13.80
<b>Manufacturing .....</b>	10.57	10.58	10.62	10.57	10.67	10.73	10.75	10.81	10.86	10.89	10.90	10.93	10.98
<b>Excluding overtime<sup>2</sup> .....</b>	10.10	10.12	10.17	10.13	10.22	10.28	10.34	10.35	10.38	10.40	10.40	10.44	10.51
<b>Transportation and public utilities .....</b>	12.71	12.65	12.73	12.78	12.83	12.87	12.96	12.88	12.92	13.02	13.00	12.99	12.99
<b>Wholesale trade .....</b>	10.54	10.55	10.60	10.57	10.62	10.67	10.74	10.74	10.80	10.84	10.84	10.94	10.92
<b>Retail trade .....</b>	6.60	6.61	6.64	6.68	6.69	6.73	6.74	6.76	6.78	6.79	6.82	6.84	6.85
<b>Finance, insurance, and real estate .....</b>	9.72	9.66	9.75	9.73	9.77	9.82	9.88	9.87	9.98	10.08	10.06	10.17	10.10
<b>Services .....</b>	9.55	9.55	9.61	9.63	9.67	9.72	9.79	9.80	9.85	9.92	9.93	9.99	9.99
<b>Total private (in constant dollars)<sup>3</sup> .....</b>	7.65	7.62	7.63	7.54	7.55	7.56	7.57	7.58	7.58	7.58	7.54	7.50	( <sup>4</sup> )
<b>Average weekly earnings</b>													
<b>Total private:</b>													
In current dollars .....	338.39	337.41	338.15	337.81	341.85	343.58	343.62	344.31	348.04	347.42	348.11	351.51	346.45
In constant (1982) dollars <sup>3</sup> .....	264.57	262.99	262.54	259.45	261.35	261.48	261.31	261.63	262.87	261.61	259.98	260.38	( <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>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

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

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Alabama</b> .....	41.6	41.3	41.4	\$9.05	\$9.47	\$9.48	\$376.48	\$391.11	\$392.47
Birmingham .....	41.0	41.1	41.6	9.47	9.73	9.71	388.27	399.90	403.94
Mobile .....	41.6	42.4	42.4	10.96	11.24	11.22	455.94	476.58	475.73
<b>Alaska</b> .....	40.9	54.5	41.8	13.04	11.47	13.02	533.34	625.12	544.24
<b>Arizona</b> .....	41.8	40.4	40.6	9.98	10.30	10.35	416.33	416.12	420.21
<b>Arkansas</b> .....	41.5	41.3	41.9	8.32	8.56	8.65	345.28	353.53	362.44
Fayetteville-Springdale .....	41.4	40.7	40.4	7.45	7.64	7.89	308.43	310.95	318.76
Fort Smith .....	39.4	40.7	40.5	8.78	8.94	8.93	345.93	363.86	381.67
Little Rock-North Little Rock .....	42.1	42.4	41.9	8.99	9.12	9.10	378.48	386.69	381.29
Pine Bluff .....	45.0	44.7	44.2	10.30	10.61	10.42	463.50	474.27	460.56
<b>California</b> .....	40.5	40.7	40.8	11.27	11.52	11.63	456.44	468.86	474.50
Anaheim-Santa Ana .....	41.1	41.2	40.8	11.56	11.73	11.77	475.12	483.28	480.22
Bakersfield .....	38.6	39.8	39.8	12.12	12.18	12.16	487.83	484.76	483.97
Fresno .....	41.0	40.9	43.0	9.05	9.23	9.51	371.05	377.51	408.93
Los Angeles-Long Beach .....	40.5	40.4	40.5	10.75	10.99	11.12	435.38	444.00	450.36
Modesto .....	38.9	40.6	39.0	10.21	10.58	10.59	397.17	429.55	413.01
Oakland .....	41.4	41.4	41.3	13.37	13.56	13.65	553.52	561.38	563.75
Oxnard-Ventura .....	41.1	41.2	41.3	10.73	11.06	11.14	441.00	455.67	460.08
Riverside-San Bernardino .....	40.1	39.9	40.0	9.98	10.48	10.53	400.20	418.15	421.20
Sacramento .....	40.3	41.5	40.4	11.79	11.99	12.06	475.14	497.59	487.22
San Diego .....	40.6	40.5	41.5	11.27	11.66	11.68	457.56	472.23	484.72
San Francisco .....	37.7	39.5	39.6	13.20	13.10	13.24	497.64	517.45	524.30
San Jose .....	40.7	41.1	40.9	13.33	13.43	13.52	542.53	551.97	552.97
Santa Barbara-Santa Maria-Lompoc .....	39.4	40.5	40.7	11.34	11.86	11.99	446.80	480.33	487.99
Santa Rosa-Petaluma .....	38.2	39.2	39.8	10.68	11.38	11.44	407.98	446.10	455.31
Stockton .....	41.4	42.1	41.8	11.09	11.16	11.13	459.13	469.84	465.23
Vallejo-Fairfield-Napa .....	43.0	40.2	41.1	13.30	13.27	13.68	571.90	533.45	562.25
<b>Colorado</b> .....	40.5	41.1	41.1	10.47	11.13	11.28	424.04	457.44	463.61
Denver .....	40.3	40.8	40.4	11.59	12.64	12.59	467.08	515.71	508.64
<b>Connecticut</b> .....	42.2	42.1	42.5	11.28	11.48	11.54	475.17	483.31	490.45
Bridgeport-Milford .....	41.7	40.6	41.5	11.70	12.02	12.19	487.89	488.01	505.89
Hartford .....	43.2	41.8	42.2	11.96	12.47	12.49	516.67	521.25	527.08
New Britain .....	42.2	42.3	42.8	11.72	12.35	12.50	494.58	522.41	535.00
New Haven-Meriden .....	41.2	41.2	41.4	10.91	11.13	11.12	449.49	458.56	460.37
Stamford .....	42.0	40.0	39.5	11.28	12.46	12.64	473.76	498.40	499.28
Waterbury .....	42.6	42.2	42.3	10.16	10.39	10.87	432.82	438.46	459.80
<b>Delaware</b> .....	42.3	40.2	42.5	12.39	12.51	12.41	524.10	502.90	527.43
Wilmington .....	43.4	41.5	43.1	15.39	15.63	15.49	667.93	648.65	667.62
<b>District of Columbia:</b>									
Washington MSA .....	39.7	39.1	39.3	12.01	12.63	12.63	476.80	493.83	496.36
<b>Florida</b> .....	41.0	40.6	40.7	8.70	9.07	9.06	356.70	368.24	368.74
Fort Lauderdale-Hollywood-Pompano Beach .....	41.7	40.7	41.0	8.65	9.05	9.12	360.71	368.34	373.92
Jacksonville .....	42.8	39.9	40.3	9.34	9.75	9.81	399.75	389.03	395.34
Miami-Hialeah .....	39.3	38.9	39.8	7.30	7.70	7.44	286.89	299.53	296.11
Orlando .....	40.0	41.4	41.5	10.03	10.24	10.28	401.20	423.94	426.62
Pensacola .....	43.7	46.0	45.3	11.21	11.78	11.80	489.88	541.88	534.54
Tampa-St. Petersburg-Clearwater .....	40.9	40.4	40.3	8.95	9.39	9.38	366.06	379.36	378.01
West Palm Beach-Boca Raton-Delray Beach .....	41.7	39.8	39.1	9.34	9.64	10.32	389.48	383.67	403.51
<b>Georgia</b> .....	41.5	41.1	41.1	8.96	9.22	9.28	371.84	378.94	381.41
Atlanta .....	41.2	41.6	42.1	10.30	10.55	10.51	424.36	438.88	442.47
Savannah .....	44.5	45.9	44.6	11.64	11.43	11.61	517.98	524.64	517.81
<b>Hawaii</b> .....	40.3	42.0	41.7	10.39	10.88	11.04	418.72	456.96	460.37
Honolulu .....	39.4	40.8	39.7	10.53	11.21	11.50	414.88	457.37	456.55
<b>Idaho</b> .....	40.0	39.8	42.6	10.22	10.41	10.35	408.80	414.32	440.91

See footnotes at end of table.

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

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Illinois</b> .....	42.2	41.5	41.6	\$11.30	\$11.44	\$11.44	\$476.86	\$474.76	\$475.90
Aurora-Elgin .....	41.1	40.8	41.8	10.68	10.96	11.05	438.95	447.17	461.89
Bloomington-Normal .....	43.2	46.1	44.1	12.70	13.14	13.12	548.64	605.75	578.59
Champaign-Urbana-Rantoul .....	40.4	41.6	41.9	10.07	9.85	9.94	406.83	409.76	416.49
Chicago .....	42.1	41.3	41.3	10.99	11.17	11.17	482.68	461.32	461.32
Davenport-Rock Island-Moline .....	40.9	40.6	41.0	12.97	12.99	12.90	530.47	527.39	528.90
Decatur .....	45.5	42.8	44.2	14.54	14.96	14.88	661.57	640.29	657.70
Joliet .....	40.6	41.9	41.7	12.73	13.13	13.02	518.84	550.15	542.93
Kankakee .....	42.8	42.8	42.8	11.85	11.94	11.82	507.18	511.03	505.90
Lake County .....	40.5	39.4	39.6	11.77	11.40	11.45	478.89	449.16	453.42
Peoria .....	42.3	42.3	44.0	13.44	13.96	14.02	568.51	590.51	616.88
Rockford .....	43.3	42.4	42.8	12.35	12.71	12.83	534.76	538.90	549.12
Springfield .....	38.0	36.9	37.9	10.31	10.76	11.12	391.78	397.04	421.45
<b>Indiana</b> .....	( <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> )
<b>Iowa</b> .....	41.3	40.2	41.5	10.98	11.25	11.36	453.47	452.25	471.44
Cedar Rapids .....	39.5	38.9	40.0	12.71	13.91	14.01	502.05	541.10	560.40
Des Moines .....	41.8	40.1	40.7	12.27	12.34	12.42	512.89	494.83	505.49
Dubuque .....	41.0	41.0	43.0	11.70	11.11	11.27	479.70	455.51	527.61
Sioux City .....	44.1	39.4	40.6	8.96	9.09	9.07	395.14	358.15	368.24
<b>Kansas</b> .....	40.7	40.5	41.0	10.82	10.83	11.07	440.37	438.62	453.87
Topeka .....	39.9	40.6	39.9	12.79	12.40	12.53	510.32	503.44	499.95
Wichita .....	39.9	40.6	40.9	11.45	12.12	12.12	456.86	492.07	495.71
<b>Kentucky</b> .....	39.8	39.0	40.7	10.27	10.81	10.70	408.75	413.79	435.49
Lexington-Fayette .....	40.6	40.9	42.0	10.74	11.36	11.25	436.04	464.62	472.50
Louisville .....	40.5	37.3	42.4	11.35	12.03	12.24	459.68	448.72	518.98
<b>Louisiana</b> .....	43.3	42.9	44.0	11.05	11.58	11.68	478.47	498.78	513.92
Baton Rouge .....	44.8	43.8	44.1	13.16	13.59	13.81	589.57	595.24	609.02
New Orleans .....	41.7	42.1	42.0	10.70	11.21	11.28	446.19	471.94	472.92
Shreveport .....	41.2	38.8	45.1	11.08	11.07	11.92	456.50	429.52	537.59
<b>Maine</b> .....	40.4	39.9	40.3	9.91	10.43	10.75	400.38	418.16	433.23
Lewiston-Auburn .....	39.2	39.5	39.4	8.54	9.30	9.49	334.77	387.35	373.91
Portland .....	39.7	37.0	38.1	10.85	10.72	11.08	430.75	396.64	422.15
<b>Maryland</b> .....	41.7	40.9	41.2	11.27	11.59	11.69	469.96	474.03	481.63
Baltimore MSA .....	41.7	40.9	41.1	11.73	12.09	12.20	489.14	494.48	501.42
<b>Massachusetts</b> .....	40.7	40.4	40.6	10.99	11.31	11.40	447.29	456.92	462.84
Boston .....	40.6	40.6	40.6	11.67	12.12	12.27	473.80	492.07	498.16
Springfield .....	41.9	41.4	41.4	10.46	10.75	10.84	438.27	445.05	448.78
Worcester .....	40.8	41.3	41.3	10.87	11.05	11.07	441.32	456.37	457.19
<b>Michigan</b> .....	43.1	42.3	43.0	13.68	13.77	13.98	588.75	582.47	601.14
Ann Arbor .....	44.0	44.3	44.2	14.40	15.96	15.93	633.60	707.03	704.11
Battle Creek .....	43.0	41.7	42.2	14.76	14.69	14.78	634.68	612.57	623.72
Detroit .....	43.8	43.5	44.3	14.77	14.94	15.06	646.93	649.89	667.16
Flint .....	43.3	39.6	41.4	17.07	17.34	17.36	739.13	686.66	718.70
Grand Rapids .....	41.8	40.9	40.8	11.78	11.58	11.84	492.40	472.80	483.07
Jackson .....	42.5	42.1	42.4	10.66	10.84	10.80	453.05	456.36	457.92
Kalamazoo .....	42.4	41.2	43.1	13.09	13.58	14.08	555.02	559.50	605.99
Lansing-East Lansing .....	43.9	41.1	42.3	15.05	15.56	15.71	660.69	639.52	664.53
Muskegon .....	40.7	40.4	41.6	12.46	12.58	12.66	507.12	508.23	526.66
Saginaw-Bay City-Midland .....	44.0	42.9	44.2	15.64	15.91	18.31	688.16	682.54	720.90
<b>Minnesota</b> .....	41.3	40.8	41.3	11.03	11.16	11.25	455.54	455.33	464.63
Duluth .....	40.8	41.4	41.2	11.90	11.29	11.70	485.52	467.41	482.04
Minneapolis-St. Paul .....	41.1	40.4	41.1	11.67	11.88	11.96	479.64	479.95	491.56
St. Cloud .....	38.6	41.5	40.8	10.13	10.09	10.25	391.02	418.74	418.20
<b>Mississippi</b> .....	40.3	39.8	39.9	8.09	8.37	8.44	326.03	333.13	336.76
Jackson .....	40.7	39.4	41.1	9.18	9.25	9.36	373.83	384.45	384.70

See footnotes at end of table.

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

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Missouri</b> .....	41.5	40.9	40.9	\$10.62	\$10.78	\$10.85	\$440.73	\$440.90	\$443.77
Kansas City .....	41.4	40.8	40.8	11.61	11.63	11.74	480.65	474.50	478.99
St. Louis .....	42.8	41.8	42.0	12.63	12.82	12.99	540.56	535.88	545.58
Springfield .....	40.8	40.9	41.3	9.06	9.21	9.30	369.65	376.69	384.09
<b>Montana</b> .....	39.6	39.9	40.9	11.38	11.43	11.79	450.65	456.06	482.21
<b>Nebraska</b> .....	41.7	40.7	41.6	9.66	9.75	9.77	402.82	396.83	406.43
Lincoln .....	40.6	40.1	40.4	10.70	11.16	11.14	434.42	447.52	450.06
Omaha .....	42.8	40.8	42.2	10.30	10.34	10.29	440.84	421.87	434.24
<b>Nevada</b> .....	40.7	40.2	40.6	10.35	11.33	11.18	421.25	455.47	453.91
Las Vegas .....	42.7	41.2	41.7	12.57	13.47	13.03	536.74	554.96	543.35
<b>New Hampshire</b> .....	41.2	40.3	40.5	10.45	10.71	10.78	430.54	431.61	436.59
Manchester .....	41.4	41.0	41.4	10.60	10.73	11.01	438.84	439.93	455.81
Nashua .....	40.6	40.1	40.2	12.70	13.59	13.61	515.62	544.96	547.12
Portsmouth-Dover-Rochester .....	41.0	41.5	41.8	9.71	10.02	9.99	398.11	415.83	417.58
<b>New Jersey</b> .....	40.9	40.6	40.9	11.25	11.67	11.70	460.13	473.80	478.53
<b>New Mexico</b> .....	39.1	39.1	38.7	8.60	8.93	9.02	336.26	349.16	349.07
Albuquerque .....	39.8	39.9	39.1	8.78	9.16	9.48	349.44	365.48	370.67
<b>New York</b> .....	40.2	39.6	39.8	10.74	11.11	11.21	431.75	439.96	446.16
Albany-Schenectady-Troy .....	40.7	40.5	41.1	11.48	11.92	11.89	467.24	482.76	488.68
Binghamton .....	41.2	39.6	39.2	9.52	9.90	9.89	392.22	392.04	387.69
Buffalo .....	42.2	41.7	43.2	13.12	13.16	13.12	553.66	548.77	566.78
Elmira .....	40.4	39.5	40.0	9.32	10.00	10.07	376.53	395.00	402.80
Glens Falls .....	( <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> )
Nassau-Suffolk .....	39.8	39.3	39.5	11.53	11.84	11.81	458.89	465.31	466.50
New York PMSA .....	37.4	37.3	37.0	9.93	10.24	10.28	371.38	381.95	380.36
New York City .....	36.9	37.1	36.9	9.76	10.16	10.09	360.14	376.94	372.32
Niagara Falls .....	42.4	39.9	40.4	14.13	14.18	14.23	599.11	565.78	574.89
Orange County .....	39.8	39.3	39.8	9.39	9.43	9.65	373.72	370.60	384.07
Poughkeepsie .....	39.9	40.4	40.7	11.09	10.75	10.73	442.49	434.30	436.71
Rochester .....	42.8	41.8	43.0	12.23	12.61	12.86	523.44	527.10	552.98
Rockland County .....	38.7	39.8	39.0	8.33	9.32	9.61	322.37	370.94	374.79
Syracuse .....	41.3	40.3	40.8	12.01	12.54	12.34	496.01	505.36	503.47
Utica-Rome .....	41.3	40.4	40.9	10.17	10.36	10.32	420.02	418.54	422.09
Westchester County .....	41.5	38.4	37.6	11.88	11.30	12.14	493.02	433.92	456.46
<b>North Carolina</b> .....	40.5	40.0	40.1	8.45	8.80	8.86	342.23	352.00	355.29
Asheville .....	40.9	41.1	41.3	8.55	8.76	8.80	349.70	360.04	363.44
Charlotte-Gastonia-Rock Hill .....	40.3	39.9	39.3	8.98	9.38	9.45	361.89	374.26	371.39
Greensboro-Winston-Salem-High Point .....	39.6	39.0	39.1	9.15	9.36	9.51	362.34	365.04	371.84
Raleigh-Durham .....	41.5	42.1	42.2	9.71	10.09	10.13	402.97	424.79	427.49
<b>North Dakota</b> .....	39.8	39.4	39.4	8.97	8.92	8.95	357.01	351.45	352.63
Fargo-Moorhead .....	41.8	39.1	38.7	9.09	8.92	8.85	379.96	348.77	342.50
<b>Ohio</b> .....	42.7	42.4	43.2	12.33	12.66	12.88	526.49	536.78	556.42
Akron .....	43.2	43.5	43.7	11.84	12.17	12.18	511.49	529.40	532.27
Canton .....	41.4	42.5	43.0	11.28	11.39	11.50	466.99	484.08	494.50
Cincinnati .....	43.4	43.5	43.6	11.67	12.18	12.17	506.48	529.83	530.61
Cleveland .....	43.5	42.7	42.9	11.90	12.14	12.24	517.65	518.38	525.10
Columbus .....	41.7	41.7	42.3	12.09	12.36	12.56	504.15	515.41	531.29
Dayton-Springfield .....	42.8	41.8	43.1	12.98	13.33	13.69	555.54	557.19	590.04
Toledo .....	43.1	43.1	43.8	13.11	13.57	13.57	565.04	584.87	594.37
Youngstown-Warren .....	43.4	41.7	44.5	14.26	14.52	15.23	618.88	605.48	677.74
<b>Oklahoma</b> .....	42.0	40.8	39.1	10.55	10.53	11.19	443.10	429.62	437.53
Oklahoma City .....	43.2	41.6	41.4	11.38	11.00	11.78	491.62	457.60	487.69
Tulsa .....	42.2	41.7	41.9	10.39	11.36	11.37	438.46	473.71	476.40
<b>Oregon</b> .....	39.4	39.5	40.5	10.82	10.97	11.12	426.31	433.32	450.36
Eugene-Springfield .....	39.2	37.5	37.7	10.85	10.82	10.90	425.32	405.75	410.93
Portland .....	39.9	39.9	40.0	11.09	11.47	11.58	442.49	457.65	463.20
Salem .....	37.9	39.8	38.3	8.70	8.60	9.06	329.73	342.28	347.00

See footnotes at end of table.

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

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>Pennsylvania</b> .....	41.1	40.7	41.1	\$10.74	\$11.03	\$11.13	\$441.41	\$448.92	\$457.44
Allentown-Bethlehem .....	40.2	39.9	40.5	10.72	11.10	11.17	430.84	442.89	452.39
Altoona .....	39.1	39.5	40.0	9.37	9.59	9.57	366.37	378.81	382.80
Beaver County .....	44.0	42.7	42.1	10.76	11.11	11.25	473.44	474.40	473.63
Erie .....	44.0	42.4	44.2	11.35	11.76	11.91	499.40	498.62	526.42
Harrisburg-Lebanon-Carlisle .....	41.6	40.7	40.9	10.95	11.28	11.25	455.52	459.10	460.13
Johnstown .....	39.3	39.0	39.8	8.26	8.32	8.50	324.62	324.48	336.60
Lancaster .....	40.8	40.3	40.6	10.71	11.02	11.14	436.97	444.11	452.28
Philadelphia PMSA .....	40.3	39.8	40.4	11.78	12.03	12.05	474.73	478.79	486.82
Pittsburgh .....	42.1	41.8	42.0	11.13	11.40	11.44	468.57	476.52	480.48
Reading .....	41.1	41.4	41.2	11.10	11.42	11.62	456.21	472.79	478.74
Scranton-Wilkes-Barre .....	39.5	39.9	39.6	9.40	9.68	9.75	371.30	386.23	386.10
Sharon .....	44.1	42.7	44.3	12.13	11.91	12.10	534.93	508.56	536.03
State College .....	39.5	40.7	41.8	9.53	9.84	9.98	376.44	400.49	417.16
Williamsport .....	40.2	40.8	40.5	9.80	9.23	9.25	385.92	376.58	374.63
York .....	42.1	41.3	42.0	10.28	10.64	10.76	432.79	439.43	451.92
<b>Rhode Island</b> .....	39.3	39.2	40.1	9.14	9.36	9.36	359.20	366.91	375.34
Pawtucket-Woonsocket-Attleboro .....	40.2	39.0	39.3	8.52	8.95	9.19	342.50	349.05	361.17
Providence .....	39.2	38.4	40.0	8.65	9.10	9.21	339.08	349.44	368.40
<b>South Carolina</b> .....	41.4	40.7	40.8	8.58	8.92	8.96	355.21	363.04	365.57
Charleston .....	40.0	40.3	40.2	9.38	9.53	9.51	375.20	384.06	382.30
Columbia .....	41.4	42.2	42.1	8.75	9.15	9.11	362.25	386.13	383.53
Greenville-Spartanburg .....	41.3	41.6	41.7	8.41	8.84	8.87	347.33	367.74	369.88
<b>South Dakota</b> .....	42.1	40.7	42.0	8.44	8.39	8.47	355.32	341.47	355.74
Sioux Falls .....	48.9	39.5	42.7	8.46	8.77	8.91	413.69	346.42	380.46
<b>Tennessee</b> .....	41.6	39.4	39.6	9.21	9.55	9.65	383.14	376.27	382.14
Chattanooga .....	40.2	40.0	41.2	8.49	8.78	8.84	341.30	351.20	364.21
Johnson City-Kingsport-Bristol .....	42.6	39.9	40.6	9.69	9.78	10.08	412.79	390.22	409.25
Knoxville .....	40.2	37.5	38.0	9.51	9.27	9.36	382.30	347.83	355.68
Memphis .....	42.4	40.3	40.8	9.41	9.68	9.69	398.98	390.10	395.35
Nashville .....	42.5	42.6	42.6	10.27	11.38	11.44	436.48	484.79	487.34
<b>Texas</b> .....	42.0	41.9	42.3	10.32	10.54	10.61	433.44	441.63	448.80
Dallas .....	42.5	42.3	42.7	10.47	10.59	10.57	444.98	447.96	451.34
Ft. Worth-Arlington .....	41.3	41.3	41.2	11.14	11.39	11.35	460.08	470.41	467.62
Houston .....	44.1	43.8	44.8	11.75	12.00	12.08	518.18	525.60	541.18
San Antonio .....	40.6	40.4	40.0	7.50	7.81	7.85	304.50	315.52	314.00
<b>Utah</b> .....	39.9	39.8	40.2	10.18	10.39	10.52	406.18	413.52	422.90
Salt Lake City-Ogden .....	40.4	39.7	40.3	9.99	10.46	10.50	403.60	415.26	423.15
<b>Vermont</b> .....	41.9	41.3	40.8	9.89	10.46	10.78	414.39	432.00	439.82
Burlington .....	43.2	41.1	40.9	9.74	10.93	11.11	420.77	449.22	454.40
<b>Virginia</b> .....	41.4	40.3	40.6	9.80	10.16	10.19	405.72	409.45	413.71
Bristol .....	40.0	36.3	39.8	7.91	8.34	8.45	316.40	302.74	336.31
Charlottesville .....	42.5	41.7	41.5	8.48	8.93	8.94	360.40	372.38	371.01
Danville .....	42.6	40.0	41.0	9.09	8.88	9.47	387.23	355.20	388.27
Lynchburg .....	42.9	42.3	41.5	9.69	10.06	9.98	415.70	425.54	414.17
Northern Virginia .....	39.5	40.2	40.3	10.75	11.25	11.37	424.63	452.25	458.21
Richmond-Petersburg .....	42.6	44.2	44.9	12.93	13.55	13.58	550.82	596.91	609.74
Roanoke .....	42.0	41.3	41.3	11.57	11.77	11.69	485.94	486.10	482.80
<b>Washington</b> .....	40.3	39.7	40.5	12.22	12.65	12.72	492.47	502.21	515.16
<b>West Virginia</b> .....	40.7	40.7	41.1	11.33	11.54	11.60	461.13	469.68	476.76
Charleston .....	43.6	43.9	44.9	13.23	13.51	13.66	576.83	593.09	613.33
Huntington-Ashland .....	40.6	41.6	41.8	12.75	13.41	13.34	517.65	557.86	557.61
Parkersburg-Marietta .....	42.8	41.1	40.8	13.05	13.09	13.43	558.54	538.00	547.94
Wheeling .....	44.4	41.6	42.4	14.33	13.21	13.17	636.25	549.54	558.41

See footnotes at end of table.

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

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Wisconsin</b> .....	42.3	41.6	42.7	\$10.71	\$10.93	\$11.08	\$453.03	\$454.69	\$473.12
Appleton-Oshkosh .....	43.6	43.2	43.5	11.80	11.96	12.20	514.48	516.67	530.70
Eau Claire .....	43.5	43.7	43.8	11.14	11.76	11.69	484.59	513.91	512.02
Green Bay .....	42.5	42.9	42.6	11.38	11.65	11.76	483.65	499.79	500.96
Janesville-Beloit .....	39.9	36.0	36.3	12.75	11.88	12.10	508.73	427.68	439.23
Kenosha .....	42.3	42.2	42.4	11.36	12.10	12.13	480.53	510.62	514.31
La Crosse .....	40.7	40.7	41.3	9.30	9.69	9.66	378.51	394.38	398.96
Madison .....	43.5	42.3	43.7	9.77	10.36	10.28	425.00	438.23	449.24
Milwaukee .....	41.9	41.2	41.5	11.63	11.87	11.90	487.30	489.04	493.85
Racine .....	40.5	39.9	39.4	10.92	11.55	11.62	442.26	460.85	457.83
Sheboygan .....	43.7	43.1	45.7	10.61	10.65	10.83	463.66	459.02	494.93
Wausau .....	43.3	42.9	44.0	10.58	10.98	11.16	458.11	471.04	491.04
<b>Wyoming</b> .....	38.4	41.6	41.9	10.77	10.83	10.84	413.57	450.53	454.20
<b>Puerto Rico</b> .....	39.6	39.1	39.5	5.71	6.08	6.08	226.11	237.73	240.16
<b>Virgin Islands</b> .....	39.9	42.3	43.4	10.57	12.19	12.06	421.74	515.64	523.40

<sup>1</sup> Not available.

<sup>P</sup> = preliminary.

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

publication. All State and area data have been adjusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

**C-9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted**

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Aug. 1990 <sup>r</sup>	Sept. 1990 <sup>r</sup>	Oct. 1990 <sup>p</sup>	Oct. 1989 to Oct. 1990 <sup>p</sup>	Aug. 1990 to Sept. 1990 <sup>r</sup>	Sept. 1990 to Oct. 1990 <sup>p</sup>
Total .....	204,744	205,724	203,128	0.4	0.5	-1.3
Private sector .....	167,860	168,876	166,420	.0	.6	-1.5
Mining .....	1,678	1,707	1,689	4.9	1.7	-1.0
Construction .....	10,307	10,403	9,847	-5.6	.9	-5.3
Manufacturing .....	40,625	40,558	40,284	-1.9	-2	-.7
Durable goods .....	23,940	23,883	23,683	-2.6	-2	-.8
Nondurable goods .....	16,685	16,675	16,602	-.8	-.1	-.4
Transportation and public utilities .....	11,825	11,961	11,796	3.1	1.2	-1.4
Wholesale trade .....	12,632	12,647	12,559	.4	.1	-.7
Retail trade .....	29,618	29,804	29,217	-1.1	.6	-2.0
Finance, insurance, and real estate .....	12,720	12,863	12,686	.0	1.1	-1.4
Services .....	48,454	48,934	48,340	2.6	1.0	-1.2
Government .....	36,885	36,848	36,708	2.0	-.1	-.4

<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 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).



C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted<sup>1</sup>

(1982=100)

Item	Annual average		Quarterly index										
	1988'	1989'	1988				1989				1990		
			I'	II'	III'	IV'	I'	II'	III'	IV'	I'	II'	III <sup>P</sup>
<b>Business sector</b>													
Output per hour of all persons .....	113.2	112.6	113.2	112.9	113.6	113.1	113.0	112.6	111.9	111.7	111.9	112.4	
Output .....	133.0	135.8	131.2	132.6	133.8	134.5	135.6	135.9	136.1	135.5	136.0	136.4	136.9
Hours .....	117.5	120.5	115.8	117.5	117.8	118.8	120.0	120.2	120.9	121.0	121.7	121.9	121.8
Compensation per hour .....	128.6	132.9	126.3	127.9	129.7	130.8	131.8	132.7	133.1	133.8	135.3	137.0	138.5
Real compensation per hour .....	104.9	103.4	104.7	104.9	105.1	104.9	104.3	103.5	103.1	102.6	101.7	102.1	101.7
Unit labor costs .....	113.7	117.9	111.5	113.3	114.2	115.6	116.7	117.4	118.2	119.5	121.1	122.5	123.3
Unit nonlabor payments .....	127.9	133.1	125.8	126.4	128.8	130.2	130.9	133.3	133.9	134.5	135.5	137.0	138.2
Implicit price deflator .....	118.2	122.8	116.2	117.5	118.9	120.3	121.2	122.5	123.3	124.3	125.8	127.2	128.1
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	112.5	111.7	112.2	112.0	112.8	112.9	112.1	112.0	111.7	111.0	110.7	110.7	111.2
Output .....	134.0	136.7	131.6	133.4	134.8	136.0	136.4	136.8	137.1	136.3	136.8	137.2	137.7
Hours .....	119.1	122.3	117.3	119.1	119.5	120.5	121.7	122.2	122.7	122.8	123.7	123.9	123.9
Compensation per hour .....	127.8	131.9	125.5	127.1	128.8	130.0	131.0	131.6	132.1	132.9	134.2	135.8	137.3
Real compensation per hour .....	104.3	102.7	104.1	104.3	104.4	104.2	103.7	102.6	102.3	101.9	100.9	101.2	100.8
Unit labor costs .....	113.7	118.1	111.9	113.5	114.2	115.2	116.9	117.5	118.3	119.7	121.3	122.7	123.5
Unit nonlabor payments .....	128.8	133.8	126.9	127.2	128.8	132.1	131.0	134.0	134.8	135.4	135.7	137.5	138.6
Implicit price deflator .....	118.4	123.0	116.6	117.8	118.8	120.5	121.4	122.7	123.5	124.7	125.8	127.3	128.3
<b>Manufacturing</b>													
Output per hour of all persons .....	127.8	131.1	126.2	127.3	128.8	129.3	130.2	131.4	131.1	131.9	133.5	134.5	136.3
Output .....	139.9	144.0	136.9	138.9	141.1	142.6	143.7	144.5	144.0	143.5	144.2	145.7	147.0
Hours .....	109.4	109.8	108.5	109.1	109.5	110.3	110.4	110.0	109.9	108.8	108.0	108.3	107.8
Compensation per hour .....	122.9	127.7	121.1	122.1	123.6	125.0	126.7	127.1	128.2	128.9	129.7	131.2	132.4
Real compensation per hour .....	100.2	99.4	100.5	100.2	100.1	100.3	100.2	99.1	99.3	98.9	97.5	97.8	97.1
Unit labor costs .....	96.1	97.4	96.0	95.9	95.9	96.7	97.3	96.7	97.8	97.8	97.1	97.5	97.1
<b>Durable goods</b>													
Output per hour of all persons .....	140.2	144.4	138.5	139.7	141.1	141.9	142.6	145.0	144.9	144.9	146.7	149.0	151.7
Output .....	155.1	159.8	150.8	154.0	156.6	158.9	159.7	160.8	160.2	158.5	159.1	161.9	163.6
Hours .....	110.6	110.7	108.9	110.2	111.0	112.0	112.0	110.9	110.5	109.3	108.5	108.7	107.9
Compensation per hour .....	121.4	126.4	120.5	120.5	121.7	123.4	125.3	125.7	127.0	127.6	128.1	129.5	130.9
Real compensation per hour .....	99.0	98.4	99.9	98.8	98.6	99.0	99.2	98.0	98.4	97.9	96.3	96.5	96.0
Unit labor costs .....	86.6	87.5	87.0	86.2	86.3	87.0	87.9	86.7	87.6	88.0	87.3	86.9	86.3
<b>Nondurable goods</b>													
Output per hour of all persons .....	111.1	113.2	109.8	110.6	112.2	112.1	113.1	113.0	112.4	114.4	115.8	115.1	115.9
Output .....	119.6	122.8	118.3	118.8	120.4	120.9	122.3	122.8	122.5	123.7	124.3	124.2	124.9
Hours .....	107.7	108.5	107.8	107.5	107.4	107.9	108.1	108.7	109.0	108.1	107.4	107.9	107.8
Compensation per hour .....	125.0	129.6	122.1	124.6	126.3	127.4	128.5	129.1	130.0	131.1	132.2	134.0	135.0
Real compensation per hour .....	102.0	100.9	101.3	102.2	102.4	102.2	101.7	100.7	100.6	100.5	99.4	99.9	99.0
Unit labor costs .....	112.6	114.5	111.2	112.7	112.6	113.7	113.6	114.3	115.6	114.6	114.2	116.4	116.4
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	113.5	111.6	113.6	113.6	113.4	113.0	111.9	111.6	111.8	110.5	110.1	110.6	( <sup>2</sup> )
Output .....	134.9	136.4	133.2	134.6	135.4	136.3	136.2	136.4	137.1	135.9	136.0	136.9	( <sup>2</sup> )
Hours .....	118.8	122.2	117.2	118.5	119.4	120.6	121.7	122.2	122.7	123.0	123.5	123.8	( <sup>2</sup> )
Compensation per hour .....	125.2	129.3	122.9	124.4	125.9	126.9	128.3	128.8	129.3	130.0	130.9	133.0	( <sup>2</sup> )
Real compensation per hour .....	102.1	100.6	101.9	102.1	102.1	101.7	101.5	100.5	100.2	99.7	98.4	99.1	( <sup>2</sup> )
Total unit costs .....	109.0	114.7	107.1	108.2	109.7	110.9	112.7	114.1	115.0	117.0	118.1	119.1	( <sup>2</sup> )
Unit labor costs .....	110.3	115.8	108.1	109.6	111.1	112.3	114.6	115.4	115.7	117.6	118.9	120.2	( <sup>2</sup> )
Unit nonlabor costs .....	105.5	111.8	104.2	104.6	106.0	107.3	108.0	110.6	113.3	115.2	116.2	116.2	( <sup>2</sup> )
Unit profits .....	176.3	157.9	176.6	178.1	171.4	179.1	162.3	162.9	159.3	147.2	147.6	153.9	( <sup>2</sup> )
Implicit price deflator .....	113.2	117.4	111.4	112.6	113.5	115.2	115.9	117.1	117.8	118.9	120.0	121.3	( <sup>2</sup> )

<sup>1</sup> The hours series underlying the productivity and cost series have been revised to incorporate the 1989 Hours at Work Survey and changes in the Current Establishment Survey.

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.  
' = revised.

SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

**C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates<sup>1</sup>**

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	II 1989'	III 1989'	IV 1989'	I 1990'	II 1990'	III 1990 <sup>p</sup>	II 1989'	III 1989'	IV 1989'	I 1990'	II 1990'	III 1990 <sup>p</sup>
<b>Business sector</b>												
Output per hour of all persons .....	0.1	-1.6	-2.3	-0.9	0.6	1.9	0.1	-0.9	-1.1	-1.2	-1.0	-0.2
Output .....	.9	.6	-1.8	1.4	1.2	1.5	2.5	1.7	.8	.3	.3	.6
Hours .....	.8	2.2	.4	2.3	.5	-4	2.3	2.7	1.9	1.4	1.4	.7
Compensation per hour .....	2.6	1.1	2.2	4.5	5.4	4.4	3.7	2.6	2.3	2.6	3.3	4.1
Real compensation per hour .....	-3.2	-1.7	-1.8	-3.3	1.6	-1.9	-1.4	-2.0	-2.2	-2.5	-1.3	-1.4
Unit labor costs .....	2.5	2.8	4.6	5.4	4.7	2.5	3.6	3.5	3.4	3.8	4.4	4.3
Unit nonlabor payments .....	7.7	1.8	1.7	3.1	4.5	3.4	5.5	4.0	3.2	3.6	2.8	3.2
Implicit price deflator .....	4.3	2.5	3.5	4.6	4.6	2.8	4.2	3.7	3.4	3.7	3.8	3.9
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	-3	-1.0	-2.5	-1.3	.3	1.6	.0	-1.0	-1.6	-1.3	-1.1	-.5
Output .....	1.3	.6	-2.1	1.4	1.2	1.5	2.6	1.7	.3	.3	.3	.5
Hours .....	1.6	1.6	.5	2.8	.9	-1	2.6	2.7	1.9	1.6	1.4	1.0
Compensation per hour .....	1.7	1.6	2.3	3.9	5.0	4.5	3.5	2.6	2.2	2.4	3.2	3.9
Real compensation per hour .....	-4.1	-1.2	-1.6	-3.8	1.2	-1.8	-1.6	-2.0	-2.2	-2.7	-1.4	-1.5
Unit labor costs .....	2.0	2.6	5.0	5.3	4.7	2.8	3.6	3.6	3.9	3.7	4.4	4.4
Unit nonlabor payments .....	9.3	2.6	1.7	1.0	5.2	3.5	5.3	4.7	2.5	3.6	2.6	2.8
Implicit price deflator .....	4.4	2.6	3.9	3.8	4.8	3.0	4.1	3.9	3.4	3.7	3.8	3.9
<b>Manufacturing</b>												
Output per hour of all persons .....	3.9	-1.0	2.5	4.9	3.1	5.6	3.2	1.7	2.0	2.5	2.4	4.0
Output .....	2.4	-1.4	-1.3	1.8	4.3	3.6	4.1	2.1	.7	.4	.8	2.1
Hours .....	-1.4	-.4	-3.7	-2.9	1.2	-1.9	.8	.4	-1.3	-2.1	-1.5	-1.9
Compensation per hour .....	1.3	3.6	2.4	2.3	4.7	3.7	4.1	3.7	3.1	2.4	3.2	3.3
Real compensation per hour .....	-4.5	.7	-1.6	-5.4	1.0	-2.6	-1.1	-.9	-1.4	-2.7	-1.3	-2.1
Unit labor costs .....	-2.5	4.6	-.1	-2.5	1.6	-1.7	.8	2.0	1.1	-.2	.9	-.7
<b>Durable goods</b>												
Output per hour of all persons .....	6.9	-.2	.0	4.8	6.6	7.3	3.8	2.8	2.1	2.8	2.7	4.6
Output .....	2.8	-1.7	-4.1	1.6	7.3	4.2	4.5	2.3	-.2	-.4	.7	2.2
Hours .....	-3.8	-1.5	-4.1	-3.1	.7	-2.9	.6	-.4	-2.3	-3.1	-2.0	-2.4
Compensation per hour .....	1.2	4.3	1.8	1.5	4.4	4.3	4.4	4.4	3.4	2.2	3.0	3.0
Real compensation per hour .....	-4.5	1.4	-2.1	-6.1	.7	-2.0	-.8	-.3	-1.1	-2.9	-1.6	-2.4
Unit labor costs .....	-5.3	4.5	1.8	-3.1	-2.0	-2.8	.5	1.6	1.2	-.6	.3	-1.5
<b>Nondurable goods</b>												
Output per hour of all persons .....	-.5	-2.1	7.1	5.2	-2.4	2.9	2.2	.2	2.1	2.3	1.9	3.1
Output .....	1.8	-1.0	3.7	2.3	-.6	2.5	3.4	1.8	2.3	1.7	1.1	1.9
Hours .....	2.3	1.1	-3.2	-2.7	1.8	-.4	1.2	1.5	.2	-.7	-.8	-1.1
Compensation per hour .....	1.9	2.6	3.4	3.6	5.4	3.0	3.6	2.9	2.9	2.9	3.7	3.8
Real compensation per hour .....	-3.9	-.3	-.6	-4.1	1.6	-3.2	-1.5	-1.7	-1.6	-2.2	-.9	-1.6
Unit labor costs .....	2.4	4.8	-3.4	-1.5	8.0	.1	1.4	2.6	.8	.5	1.9	.7
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-1.1	.6	-4.6	-1.5	1.9	( <sup>q</sup> )	-1.7	-1.4	-2.2	-1.7	-1.0	( <sup>q</sup> )
Output .....	.6	2.1	-3.6	.2	2.8	( <sup>q</sup> )	1.4	1.3	-.3	-.2	.4	( <sup>q</sup> )
Hours .....	1.7	1.5	1.1	1.8	.9	( <sup>q</sup> )	3.1	2.7	2.0	1.5	1.3	( <sup>q</sup> )
Compensation per hour .....	1.8	1.6	1.9	2.8	6.6	( <sup>q</sup> )	3.5	2.7	2.5	2.0	3.2	( <sup>q</sup> )
Real compensation per hour .....	-4.0	-1.2	-2.0	-4.9	2.8	( <sup>q</sup> )	-1.6	-1.9	-2.0	-3.0	-1.4	( <sup>q</sup> )
Total unit costs .....	4.7	3.5	6.9	4.1	3.4	( <sup>q</sup> )	5.4	4.9	5.5	4.8	4.4	( <sup>q</sup> )
Unit labor costs .....	2.8	1.0	6.9	4.4	4.6	( <sup>q</sup> )	5.3	4.1	4.8	3.8	4.2	( <sup>q</sup> )
Unit nonlabor costs .....	9.9	10.2	6.9	3.3	.2	( <sup>q</sup> )	5.7	6.9	7.4	7.6	5.1	( <sup>q</sup> )
Unit profits .....	1.5	-8.5	-27.1	1.2	18.2	( <sup>q</sup> )	-8.5	-7.0	-17.8	-9.0	-5.5	( <sup>q</sup> )
Implicit price deflator .....	4.4	2.4	3.6	3.9	4.5	( <sup>q</sup> )	4.0	3.8	3.2	3.6	3.6	( <sup>q</sup> )

<sup>1</sup> The hours series underlying the productivity and cost series have been revised to incorporate the 1989 Hours at Work Survey and changes in the Current Establishment Survey.

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

<sup>q</sup> = revised.

SOURCE: Office of Productivity and Technology (202 523 9261).

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

**D-1. Labor force status by State and selected metropolitan areas**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>a</sup>
<b>Alabama</b> .....	1,910.2	1,893.7	1,902.3	127.1	144.8	142.0	6.7	7.6	7.5
Birmingham .....	447.3	440.2	444.0	25.2	27.2	28.2	5.6	6.2	6.4
Huntsville .....	133.9	133.1	133.6	6.5	6.7	6.9	4.8	5.0	5.1
Mobile .....	209.4	209.1	209.1	16.5	16.8	16.3	7.9	8.0	7.8
Montgomery .....	139.3	139.0	139.3	8.7	10.0	9.8	6.2	7.2	7.0
Tuscaloosa .....	71.8	71.6	72.5	3.3	3.9	3.8	4.6	5.4	5.2
<b>Alaska</b> .....	257.8	266.6	259.8	16.2	14.8	16.5	6.3	5.5	6.4
<b>Arizona</b> .....	1,698.5	1,725.7	1,747.2	88.7	97.3	89.2	5.2	5.6	5.1
Phoenix .....	1,052.8	1,073.0	1,079.3	45.6	46.8	43.6	4.3	4.4	4.0
Tucson .....	314.5	313.5	317.3	15.0	12.8	12.3	4.8	4.1	3.9
<b>Arkansas</b> .....	1,131.2	1,129.0	1,140.0	70.6	68.6	76.9	6.2	6.1	6.7
Fayetteville-Springdale .....	63.5	63.7	64.7	2.0	1.9	2.4	3.1	3.0	3.7
Fort Smith .....	92.7	92.9	92.0	6.8	5.3	5.9	7.4	5.7	6.4
Little Rock-North Little Rock .....	268.0	267.5	269.3	16.2	14.8	16.3	6.1	5.6	6.1
Pine Bluff .....	37.3	36.3	37.2	2.6	2.9	3.4	6.9	8.0	9.1
<b>California</b> <sup>1</sup> .....	14,635.5	14,939.7	14,607.8	726.1	813.4	846.5	5.0	5.4	5.8
Anaheim-Santa Ana .....	1,425.0	1,401.7	1,369.0	45.2	46.0	51.6	3.2	3.3	3.8
Bakersfield .....	236.5	231.0	229.1	24.1	20.1	23.6	10.2	8.7	10.3
Fresno .....	346.2	328.7	341.0	26.8	24.8	28.2	7.7	7.5	8.3
Los Angeles-Long Beach <sup>1</sup> .....	4,179.6	4,587.0	4,386.0	199.6	304.0	269.0	4.8	6.6	6.1
Modesto .....	169.9	166.9	167.1	13.9	13.3	14.9	8.2	7.9	8.9
Oakland .....	1,131.5	1,133.9	1,116.3	47.5	44.3	49.8	4.2	3.9	4.5
Oxnard-Ventura .....	373.9	374.8	368.0	21.1	21.9	25.3	5.6	5.9	6.9
Riverside-San Bernardino .....	1,023.6	1,044.2	1,034.3	63.4	71.4	80.2	6.2	6.8	7.8
Sacramento .....	741.7	744.3	734.2	35.3	29.8	34.7	4.8	4.0	4.7
San Diego .....	1,194.5	1,195.4	1,179.9	49.8	51.2	60.4	4.2	4.3	5.1
San Francisco .....	894.6	895.0	869.1	29.2	28.9	31.8	3.3	3.3	3.7
San Jose .....	847.1	826.2	803.8	32.2	30.7	35.1	3.8	3.7	4.4
Santa Barbara-Santa Maria-Lompoc .....	182.8	180.8	178.1	7.6	6.9	8.4	4.1	3.8	4.7
Santa Rosa-Petaluma .....	212.7	211.8	213.6	8.4	8.2	9.2	4.0	3.9	4.3
Stockton .....	206.7	200.8	198.0	15.4	14.4	16.0	7.4	7.2	8.1
Vallejo-Fairfield-Napa .....	201.1	203.5	200.9	10.0	9.6	10.9	5.0	4.7	5.4
<b>Colorado</b> .....	1,685.4	1,755.6	1,746.8	74.2	80.9	67.3	4.4	4.6	3.9
Boulder-Longmont .....	134.6	135.8	138.0	4.5	4.6	4.1	3.3	3.4	2.9
Denver .....	865.1	895.1	894.7	36.5	39.5	32.8	4.2	4.4	3.7
<b>Connecticut</b> .....	1,754.0	1,816.8	1,788.7	66.4	93.9	90.9	3.8	5.2	5.1
Bridgeport-Milford .....	228.5	233.3	231.4	11.3	14.7	14.6	5.0	6.3	6.3
Hartford .....	425.8	443.1	438.9	13.9	20.6	19.5	3.3	4.6	4.5
New Britain .....	73.6	76.3	75.6	3.1	4.6	4.5	4.2	6.1	5.9
New Haven-Meriden .....	275.0	282.0	277.5	10.6	14.8	14.3	3.8	5.2	5.2
Stamford .....	115.1	118.3	115.4	3.3	4.2	4.1	2.9	3.5	3.6
Waterbury .....	101.4	105.5	103.3	4.9	7.9	7.7	4.8	7.5	7.4
<b>Delaware</b> .....	361.1	363.7	360.7	11.8	16.0	19.7	3.3	4.4	5.5
Wilmington .....	311.5	312.5	310.8	11.2	14.1	16.6	3.6	4.5	5.3
<b>District of Columbia</b> .....	312.8	297.9	295.4	15.5	18.2	19.9	5.0	6.1	6.8
Washington .....	2,209.2	2,238.5	2,220.5	61.3	74.2	77.8	2.8	3.3	3.5
<b>Florida</b> <sup>1</sup> .....	6,162.4	6,454.5	6,419.2	352.9	440.2	395.2	5.7	6.8	6.2
Daytona Beach .....	153.2	157.5	157.0	7.7	9.3	8.9	5.0	5.9	5.6
Fort Lauderdale-Hollywood-Pompano Beach .....	640.6	673.7	667.2	33.1	42.2	37.4	5.2	6.3	5.6
Fort Myers-Cape Coral .....	144.8	158.5	158.8	5.6	8.0	7.4	3.9	5.1	4.7
Gainesville .....	105.8	109.6	110.3	2.9	4.1	4.0	2.8	3.8	3.7
Jacksonville .....	452.8	467.1	466.7	24.1	28.0	26.6	5.3	6.0	5.7
Lakeland-Winter Haven .....	177.6	185.8	181.5	18.6	23.6	19.1	10.5	12.7	10.5
Melbourne-Titusville-Palm Bay .....	187.4	198.0	196.5	9.5	12.1	11.2	5.1	6.1	5.7
Miami-Hialeah .....	940.5	980.2	976.3	60.8	74.7	66.9	6.5	7.6	6.9
Orlando .....	612.5	640.8	636.0	30.5	39.0	36.2	5.0	6.1	5.7
Pensacola .....	147.1	150.7	149.5	8.6	9.7	9.1	5.8	6.5	6.1
Sarasota .....	120.8	126.3	126.1	4.5	5.9	5.6	3.7	4.7	4.5
Tallahassee .....	133.5	136.8	138.1	5.6	6.7	5.3	4.2	4.9	3.8
Tampa-St. Petersburg-Clearwater .....	987.6	1,026.0	1,018.2	48.7	57.6	52.6	4.9	5.6	5.2
West Palm Beach-Boca Raton-Delray Beach .....	417.9	433.5	432.0	27.3	35.4	30.5	6.5	8.2	7.1

See footnotes at end of table.

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

**D-1. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Georgia</b> .....	3,227.4	3,254.2	3,267.5	198.3	184.0	215.2	6.1	5.7	6.6
Albany .....	53.7	52.4	53.2	4.7	3.8	4.3	8.8	7.2	8.2
Athens .....	76.7	76.9	77.0	4.3	3.7	4.4	5.6	4.8	5.7
Atlanta .....	1,526.3	1,550.1	1,556.2	86.7	83.6	99.4	5.7	5.4	6.4
Augusta .....	190.4	192.7	190.4	10.5	9.1	10.1	5.5	4.7	5.3
Columbus .....	99.6	98.5	98.0	6.4	6.3	6.8	6.4	6.4	7.0
Macon-Warner Robins .....	134.4	132.6	133.1	7.5	6.3	7.3	5.6	4.7	5.5
Savannah .....	114.0	115.4	115.2	6.5	5.5	6.9	5.7	4.8	6.0
<b>Hawaii</b> .....	516.6	540.3	532.4	10.3	13.4	14.7	2.0	2.5	2.8
Honolulu .....	378.4	394.9	388.8	7.1	8.9	10.0	1.9	2.2	2.6
<b>Idaho</b> .....	485.7	490.9	487.2	19.5	24.6	22.0	4.0	5.0	4.5
Boise City .....	108.2	112.3	111.4	3.3	3.6	4.1	3.0	3.3	3.7
<b>Illinois<sup>1</sup></b> .....	6,063.2	6,025.3	6,028.8	335.3	381.2	393.1	5.5	6.3	6.5
Aurora-Elgin .....	181.7	185.4	186.6	9.1	11.2	11.4	5.0	6.0	6.1
Bloomington-Normal .....	75.9	72.8	74.9	2.6	3.0	3.0	3.4	4.2	4.0
Champaign-Urbana-Rantoul .....	93.8	86.6	91.4	3.2	3.4	3.4	3.5	3.9	3.7
Chicago .....	3,335.9	3,322.4	3,337.9	181.4	206.8	218.0	5.4	6.2	6.5
Davenport-Rock Island-Moline .....	185.3	184.4	182.6	11.7	11.0	10.5	6.3	6.0	5.7
Decatur .....	60.3	59.7	60.4	4.2	4.2	4.6	7.0	7.1	7.6
Joliet .....	206.5	204.7	207.1	11.6	14.1	14.0	5.6	6.9	6.8
Kankakee .....	46.0	46.8	46.5	3.1	3.4	3.3	6.7	7.2	7.2
Lake County .....	301.2	305.8	305.5	10.4	12.2	12.5	3.4	4.0	4.1
Peoria .....	163.9	161.6	161.9	8.9	10.1	10.1	5.4	6.3	6.2
Rockford .....	156.1	154.1	154.5	8.3	9.3	9.4	5.3	6.0	6.1
Springfield .....	115.0	119.0	113.2	4.8	5.4	5.2	4.2	4.6	4.6
<b>Indiana</b> .....	2,882.0	2,795.9	2,832.6	140.6	181.3	138.5	4.9	6.5	4.9
Anderson .....	59.6	58.2	58.9	3.0	5.0	3.6	5.1	8.5	6.2
Bloomington .....	63.0	56.7	61.8	1.8	2.3	1.6	2.9	4.1	2.5
Elkhart-Goshen .....	98.5	97.4	97.1	5.2	6.6	6.0	5.3	6.8	6.2
Evansville .....	144.9	144.0	144.0	7.2	8.7	6.8	5.0	6.1	4.7
Fort Wayne .....	206.5	202.1	205.1	10.6	12.8	10.6	5.1	6.3	5.2
Gary-Hammond .....	262.0	251.1	256.6	13.9	18.1	13.9	5.3	7.2	5.4
Indianapolis .....	696.1	674.8	679.7	28.5	35.5	25.3	4.1	5.3	3.7
Kokomo .....	48.2	48.7	47.4	3.1	4.9	2.8	6.4	10.1	5.9
Lafayette-West Lafayette .....	70.9	65.9	70.8	2.2	2.5	1.4	3.1	3.8	2.0
Muncie .....	60.7	58.7	59.7	3.1	4.2	2.7	5.1	7.2	4.6
South Bend-Mishawaka .....	135.4	130.0	133.9	6.3	8.6	6.6	4.7	6.6	5.0
Terre Haute .....	61.4	57.2	59.7	2.8	3.2	2.5	4.5	5.6	4.1
<b>Iowa</b> .....	1,499.9	1,484.1	1,477.2	63.5	59.4	58.3	4.2	4.0	3.9
Cedar Rapids .....	97.1	96.6	96.4	3.9	5.0	5.6	4.0	5.2	5.8
Des Moines .....	234.8	231.9	231.9	9.6	7.2	7.6	4.1	3.1	3.3
Dubuque .....	44.1	43.2	43.6	2.3	3.5	1.9	5.1	8.0	4.4
Iowa City .....	60.0	61.2	61.9	1.0	1.0	.9	1.7	1.7	1.5
Sioux City .....	59.8	59.5	58.6	2.5	2.6	2.3	4.1	4.3	3.9
Waterloo-Cedar Falls .....	72.8	70.6	73.3	3.9	3.2	3.5	5.4	4.5	4.8
<b>Kansas</b> .....	1,282.2	1,320.5	1,306.6	51.9	58.2	56.6	4.0	4.4	4.3
Lawrence .....	42.8	45.3	44.7	1.3	1.6	1.5	3.0	3.6	3.5
Topeka .....	90.9	93.7	91.6	4.3	4.8	4.9	4.7	5.2	5.4
Wichita .....	253.1	258.0	255.6	10.8	11.5	11.6	4.3	4.5	4.5
<b>Kentucky</b> .....	1,743.0	1,782.6	1,760.2	91.4	87.7	92.2	5.2	4.9	5.2
Lexington-Fayette .....	199.3	204.5	199.9	5.7	6.6	6.3	2.9	3.2	3.1
Louisville .....	526.2	522.6	524.9	38.0	22.4	30.2	7.2	4.3	5.7
Owensboro .....	45.0	46.2	45.4	2.0	2.5	2.2	4.4	5.3	4.9
<b>Louisiana</b> .....	1,908.6	1,907.1	1,900.4	127.8	123.0	133.1	6.7	8.5	7.0
Alexandria .....	60.1	58.9	58.0	4.0	4.1	4.2	6.7	7.0	7.2
Baton Rouge .....	271.7	272.1	271.2	15.3	15.8	16.6	5.7	5.8	6.1
Houma-Thibodaux .....	68.2	70.6	69.1	4.1	3.7	4.3	6.0	5.2	6.2
Lafayette .....	99.6	102.6	102.3	5.7	4.7	5.8	5.7	4.6	5.6
Lake Charles .....	76.3	75.9	76.0	5.3	5.3	5.7	6.9	7.0	7.6
Monroe .....	68.5	68.2	67.7	4.2	4.1	4.8	6.1	6.0	7.0
New Orleans .....	601.8	596.2	591.1	38.8	36.3	39.6	6.4	6.1	6.7
Shreveport .....	158.0	155.9	155.9	11.1	10.1	11.1	7.1	6.5	7.1
<b>Maine</b> .....	622.1	641.7	631.5	20.8	27.0	25.7	3.3	4.2	4.1
Lewiston-Auburn .....	41.9	42.1	42.9	2.0	2.6	2.6	4.9	6.2	6.0
Portland .....	128.5	132.6	131.8	3.0	4.6	4.4	2.3	3.5	3.3

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

D-1. Labor force status by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Maryland</b> .....	2,519.9	2,567.8	2,544.9	93.4	114.8	114.1	3.7	4.5	4.5
Baltimore .....	1,201.9	1,225.7	1,214.1	48.9	59.8	59.0	4.1	4.9	4.9
<b>Massachusetts</b> <sup>1</sup> .....	3,120.7	3,238.0	3,146.8	134.2	207.2	193.8	4.3	6.4	6.2
Boston .....	1,527.3	1,580.3	1,540.2	58.5	90.0	84.7	3.8	5.7	5.5
Brockton .....	99.2	103.5	100.9	5.4	8.2	7.7	5.4	7.9	7.7
Fall River .....	77.3	79.6	78.5	4.8	7.5	6.8	6.2	9.4	8.7
Fitchburg-Leominster .....	46.8	47.4	46.1	2.8	4.6	4.3	6.0	9.7	9.3
Lawrence-Haverhill .....	186.3	197.8	194.0	11.5	15.7	15.7	6.2	8.0	8.1
Lowell .....	150.0	154.4	149.8	7.9	11.8	10.7	5.2	7.6	7.1
New Bedford .....	85.2	88.8	85.6	4.9	7.7	7.5	5.8	8.6	8.7
Pittsfield .....	39.4	42.7	40.6	1.8	2.6	2.4	4.5	6.2	5.9
Springfield .....	251.0	258.9	253.5	11.0	16.4	15.1	4.4	6.3	6.0
Worcester .....	216.8	227.4	222.9	9.5	15.3	14.3	4.4	6.7	6.4
<b>Michigan</b> <sup>1</sup> .....	4,614.2	4,696.7	4,579.1	343.9	349.0	314.5	7.5	7.4	6.9
Ann Arbor .....	159.3	163.8	163.3	7.8	9.1	6.9	4.9	5.6	4.2
Battle Creek .....	65.1	67.3	66.0	4.9	4.9	4.7	7.5	7.2	7.1
Benton Harbor .....	78.4	80.3	78.5	6.6	5.8	5.4	8.5	7.2	6.9
Detroit .....	2,207.3	2,208.7	2,140.8	175.4	169.0	150.6	7.9	7.7	7.0
Flint .....	184.3	186.2	182.8	18.4	17.3	14.6	10.0	9.3	8.0
Grand Rapids .....	369.0	380.4	376.1	19.0	22.9	21.0	5.2	6.0	5.6
Jackson .....	66.3	67.4	65.9	4.7	5.2	5.1	7.1	7.7	7.7
Kalamazoo .....	119.4	119.7	120.7	6.2	5.9	5.8	5.2	4.9	4.8
Lansing-East Lansing .....	237.4	240.3	237.8	14.4	13.8	12.9	6.1	5.7	5.4
Muskegon .....	69.7	70.6	69.1	7.1	6.5	6.2	10.3	9.3	8.9
Saginaw-Bay City-Midland .....	187.6	192.4	188.0	13.6	13.2	12.4	7.2	6.9	6.6
<b>Minnesota</b> .....	2,359.1	2,430.4	2,428.3	98.4	105.5	110.5	4.2	4.3	4.5
Duluth .....	110.3	112.5	111.3	5.9	5.4	5.8	5.4	4.8	5.2
Minneapolis-St.Paul .....	1,405.1	1,447.1	1,436.5	55.6	59.3	63.6	4.0	4.1	4.4
Rochester .....	63.4	65.4	65.0	1.9	2.1	2.2	3.0	3.2	3.3
St. Cloud .....	96.5	102.6	104.4	3.9	5.0	5.1	4.0	4.8	4.9
<b>Mississippi</b> .....	1,162.2	1,181.3	1,167.3	83.5	93.7	82.7	7.2	7.9	7.1
Jackson .....	202.3	207.1	205.8	10.4	12.0	11.0	5.1	5.8	5.3
<b>Missouri</b> .....	2,614.3	2,634.2	2,620.6	137.0	150.7	150.4	5.2	5.7	5.7
Kansas City .....	846.6	872.2	859.0	40.5	44.8	43.5	4.8	5.1	5.1
St. Louis LMA .....	1,269.6	1,277.1	1,266.3	67.0	80.4	77.4	5.3	6.3	6.1
Springfield .....	127.8	126.4	128.5	5.9	5.4	6.0	4.6	4.3	4.6
<b>Montana</b> .....	405.8	405.6	392.5	19.9	17.7	21.9	4.9	4.4	5.6
<b>Nebraska</b> .....	807.8	838.6	824.1	23.6	19.5	17.7	2.9	2.3	2.1
Lincoln .....	125.3	126.5	126.0	2.9	2.4	2.1	2.3	1.9	1.7
Omaha .....	327.8	333.3	328.9	11.4	9.5	9.5	3.5	2.8	2.9
<b>Nevada</b> .....	602.0	630.6	634.5	29.9	25.6	27.2	5.0	4.1	4.3
Las Vegas .....	359.6	384.4	388.9	18.1	16.7	17.8	5.0	4.3	4.6
Reno .....	135.9	136.8	137.3	6.3	4.9	5.0	4.6	3.6	3.7
<b>New Hampshire</b> .....	611.8	635.6	627.6	23.5	33.7	33.8	3.8	5.3	5.4
Manchester .....	85.4	88.8	88.6	3.0	4.9	5.1	3.5	5.5	5.7
Nashua .....	97.3	98.6	97.5	4.6	6.0	5.9	4.7	6.1	6.1
Portsmouth-Dover-Rochester .....	134.7	136.2	133.6	3.6	6.3	5.1	2.7	4.6	3.8
<b>New Jersey</b> <sup>1</sup> .....	3,950.0	4,104.0	4,041.2	169.9	188.9	203.3	4.3	4.6	5.0
Atlantic City .....	181.1	202.7	191.5	8.9	9.0	10.9	4.9	4.4	5.7
Bergen-Passaic .....	701.2	716.9	712.7	28.2	29.3	31.7	4.0	4.1	4.4
Jersey City .....	272.4	276.4	275.1	18.1	18.2	19.8	6.7	6.6	7.2
Middlesex-Somerset-Hunterdon .....	561.3	579.4	569.6	16.8	22.5	22.9	3.0	3.9	4.0
Monmouth-Ocean .....	480.5	517.3	497.4	18.7	22.0	24.1	3.9	4.2	4.9
Newark .....	950.1	983.5	974.0	43.7	49.6	53.3	4.6	5.0	5.5
Trenton .....	168.1	173.1	171.9	5.9	7.3	7.5	3.5	4.2	4.3
Vineland-Millville-Bridgeton .....	58.2	60.5	60.6	3.8	4.0	4.3	6.5	6.6	7.1
<b>New Mexico</b> .....	704.2	706.2	701.2	43.0	42.8	39.5	6.1	6.1	5.6
Albuquerque .....	267.9	263.8	262.5	13.1	13.6	12.4	4.9	5.2	4.7
Las Cruces .....	59.1	58.8	59.0	3.7	3.9	3.5	6.3	6.7	5.9
Santa Fe .....	67.5	71.2	69.1	2.5	2.2	2.3	3.7	3.1	3.3

See footnotes at end of table.

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

**D-1. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,587.5	8,731.0	8,671.5	447.4	419.6	473.4	5.2	4.8	5.5
Albany-Schenectady-Troy .....	432.4	447.6	436.9	17.5	14.8	14.7	4.0	3.3	3.4
Binghamton .....	126.1	124.5	123.7	6.0	4.5	4.5	4.7	3.6	3.6
Buffalo .....	463.0	469.7	462.5	26.2	21.7	20.5	5.6	4.6	4.4
Elmira .....	43.6	45.0	44.1	2.2	1.6	2.1	5.1	3.6	4.8
Glens Falls .....	55.7	58.7	54.0	3.0	2.6	2.6	5.5	4.4	4.9
Nassau-Suffolk .....	1,417.1	1,431.3	1,405.9	65.3	58.5	57.4	4.6	4.1	4.1
New York .....	3,921.3	3,981.4	4,008.5	227.1	230.0	287.8	5.8	5.8	7.2
New York City <sup>1</sup> .....	3,243.5	3,283.0	3,333.0	200.3	205.0	264.0	6.2	6.2	7.9
Orange County .....	138.0	138.0	135.2	7.3	6.2	5.9	5.3	4.5	4.4
Poughkeepsie .....	128.0	130.3	128.4	4.3	4.0	4.0	3.4	3.1	3.1
Rochester .....	507.0	515.0	506.6	20.6	18.0	17.3	4.1	3.5	3.4
Syracuse .....	321.5	326.2	321.9	13.7	11.4	11.5	4.3	3.5	3.6
Utica-Rome .....	138.0	139.7	136.3	6.5	5.1	5.1	4.7	3.7	3.7
<b>North Carolina<sup>1</sup></b> .....	3,397.4	3,418.2	3,396.9	119.2	118.3	110.4	3.5	3.5	3.3
Asheville .....	91.7	94.9	95.0	2.9	2.4	2.4	3.1	2.5	2.6
Charlotte-Gastonia-Rock Hill .....	650.2	658.8	653.3	21.3	20.3	19.7	3.3	3.1	3.0
Greensboro-Winston-Salem-High Point .....	516.4	507.7	506.9	17.4	16.6	15.2	3.4	3.3	3.0
Raleigh-Durham .....	423.0	421.9	417.0	11.2	9.4	8.5	2.7	2.2	2.0
<b>North Dakota</b> .....	331.7	337.9	325.9	13.3	11.0	11.0	4.0	3.3	3.4
Bismarck .....	48.0	49.4	47.6	2.0	1.5	1.5	4.1	3.0	3.2
Fargo-Moorhead .....	86.9	88.8	87.9	2.1	1.9	2.1	2.4	2.2	2.3
Grand Forks .....	36.0	36.6	35.5	1.4	1.2	1.3	3.8	3.4	3.6
<b>Ohio<sup>1</sup></b> .....	5,424.8	5,503.6	5,435.9	266.8	258.3	258.6	4.9	4.7	4.8
Akron .....	336.5	340.4	339.9	15.4	14.1	14.9	4.6	4.1	4.4
Canton .....	194.5	196.6	193.8	11.0	9.9	9.8	5.7	5.0	5.1
Cincinnati .....	784.2	803.6	794.1	31.5	30.2	30.1	4.0	3.8	3.8
Cleveland .....	953.8	968.6	956.0	41.6	39.3	40.8	4.4	4.1	4.3
Columbus .....	728.2	747.6	736.8	31.2	27.4	28.3	4.3	3.7	3.8
Dayton-Springfield .....	479.3	484.6	479.9	21.9	22.2	22.3	4.6	4.6	4.6
Toledo .....	318.6	317.9	318.0	17.8	17.2	17.5	5.6	5.4	5.5
Youngstown-Warren .....	225.0	225.2	222.5	13.8	12.8	11.9	6.1	5.7	5.4
<b>Oklahoma</b> .....	1,524.5	1,564.2	1,543.7	76.4	83.7	78.9	5.0	5.4	5.1
Enid .....	27.5	28.2	27.7	1.1	1.0	1.2	4.1	3.7	4.2
Lawton .....	48.5	50.1	49.4	2.2	2.4	2.6	4.5	4.8	5.4
Oklahoma City .....	499.4	521.7	509.4	22.0	30.9	22.8	4.4	5.9	4.5
Tulsa .....	341.0	359.3	351.6	17.9	16.8	18.3	5.3	4.7	5.2
<b>Oregon</b> .....	1,460.5	1,531.1	1,514.7	74.4	79.1	80.9	5.1	5.2	5.3
Eugene-Springfield .....	144.0	150.3	150.6	7.6	8.0	9.1	5.3	5.3	6.1
Portland .....	662.6	697.4	689.6	29.2	29.5	31.0	4.4	4.2	4.5
Salem .....	138.1	146.7	143.7	6.8	6.6	6.9	4.9	4.5	4.8
<b>Pennsylvania<sup>1</sup></b> .....	5,823.2	5,876.8	5,857.8	235.3	253.1	296.7	4.0	4.3	5.1
Allentown-Bethlehem .....	326.1	329.1	327.3	13.4	15.3	16.4	4.1	4.7	5.0
Altoona .....	59.4	61.5	61.7	3.1	3.3	4.2	5.2	5.3	6.7
Beaver County .....	59.2	58.4	58.2	3.6	3.5	4.2	6.1	6.0	7.1
Erie .....	132.3	134.3	134.4	5.9	5.5	6.5	4.5	4.1	4.9
Harrisburg-Lebanon-Carlisle .....	332.7	343.1	339.5	12.7	13.0	15.8	3.8	3.8	4.6
Johnstown .....	94.4	94.7	94.4	6.0	5.7	5.9	6.3	6.0	6.3
Lancaster .....	222.5	223.9	223.1	6.4	7.3	8.5	2.9	3.3	3.8
Philadelphia .....	2,398.3	2,429.0	2,407.9	91.1	98.5	114.6	3.8	4.1	4.8
Pittsburgh .....	978.0	985.4	984.2	37.9	36.5	43.2	3.9	3.7	4.4
Reading .....	176.3	177.8	178.8	5.8	7.5	8.4	3.3	4.2	4.7
Scranton-Wilkes-Barre .....	361.3	367.3	365.0	17.3	19.6	22.6	4.8	5.3	6.2
Sharon .....	50.6	51.9	52.4	1.9	2.0	2.4	3.8	3.8	4.6
State College .....	66.8	65.9	67.9	2.5	3.0	3.3	3.8	4.5	4.9
Williamsport .....	60.1	61.9	62.5	3.0	3.7	4.5	5.0	6.0	7.2
York .....	221.5	222.2	221.3	7.7	9.6	10.2	3.5	4.3	4.6
<b>Rhode Island</b> .....	529.3	521.7	513.5	22.5	31.6	30.2	4.2	6.0	5.9
Pawtucket-Woonsocket-Attleboro .....	165.9	166.7	164.3	8.3	12.1	11.7	5.0	7.3	7.1
Providence .....	346.9	339.2	335.4	14.0	19.9	18.8	4.0	5.9	5.6
<b>South Carolina</b> .....	1,713.6	1,753.3	1,731.6	90.8	83.0	89.7	5.3	4.7	5.2
Charleston .....	227.3	245.2	238.2	10.4	8.3	9.1	4.6	3.4	3.8
Columbia .....	233.6	245.1	243.5	9.6	8.7	10.5	4.1	3.6	4.3
Greenville-Spartanburg .....	343.3	353.9	347.2	14.8	14.4	14.7	4.3	4.1	4.2
<b>South Dakota</b> .....	364.1	368.1	363.6	14.0	14.0	12.3	3.8	3.8	3.4
Rapid City .....	40.2	40.9	39.5	1.5	1.6	1.4	3.7	3.9	3.6
Sioux Falls .....	74.0	73.9	74.1	2.2	1.8	1.8	3.0	2.4	2.4

See footnotes at end of table.

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

**D-1. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>	Sept. 1989	Aug. 1990	Sept. 1990 <sup>P</sup>
<b>Tennessee</b> .....	2,397.9	2,420.0	2,416.2	110.0	120.4	125.8	4.6	5.0	5.2
Chattanooga .....	211.3	212.2	212.0	10.2	9.4	10.4	4.8	4.4	4.9
Johnson City-Kingsport-Bristol .....	215.4	224.3	223.9	9.0	9.0	10.1	4.2	4.0	4.5
Knoxville .....	294.4	289.6	286.5	13.5	12.7	12.4	4.6	4.4	4.3
Memphis .....	473.2	476.0	477.3	20.8	21.7	23.0	4.4	4.5	4.8
Nashville .....	534.5	536.2	535.1	19.4	21.0	22.9	3.6	3.9	4.3
<b>Texas<sup>1</sup></b> .....	8,438.5	8,458.7	8,490.7	531.9	500.9	525.6	6.3	5.9	6.2
Abilene .....	53.0	51.5	52.6	3.3	3.2	3.3	6.2	6.3	6.3
Amarillo .....	99.1	96.9	97.7	5.6	4.5	4.9	5.6	4.6	5.1
Austin .....	434.6	424.6	435.1	22.1	19.2	20.6	5.1	4.5	4.7
Beaumont-Port Arthur .....	163.8	164.7	165.6	13.0	12.1	12.3	7.9	7.3	7.4
Brazoria .....	85.8	87.7	88.0	5.6	4.7	5.0	6.5	5.3	5.7
Brownsville-Harlingen .....	104.2	108.2	107.3	11.5	11.8	12.1	11.0	10.9	11.3
Bryan-College Station .....	62.6	60.9	62.1	2.4	2.0	2.2	3.8	3.3	3.6
Corpus Christi .....	157.7	158.1	157.9	12.3	10.5	11.4	7.8	6.7	7.2
Dallas .....	1,450.4	1,448.4	1,452.9	76.5	74.1	77.8	5.3	5.1	5.4
El Paso .....	252.8	253.2	254.7	24.5	26.2	27.9	9.7	10.3	10.9
Fort Worth-Arlington .....	725.1	737.3	733.9	38.1	36.5	37.9	5.2	4.9	5.2
Galveston-Texas City .....	108.9	111.8	110.3	7.6	7.5	8.1	7.0	6.7	7.3
Houston .....	1,690.0	1,718.9	1,718.2	95.0	90.4	94.8	5.6	5.3	5.5
Killeen-Temple .....	97.9	99.7	99.2	6.6	6.8	7.0	6.8	6.8	7.0
Laredo .....	52.6	52.9	53.3	5.3	4.6	4.9	10.0	8.7	9.3
Longview-Marshall .....	80.8	80.5	80.5	6.4	5.4	5.8	7.9	6.7	7.2
Lubbock .....	114.8	116.0	115.9	5.2	6.0	5.7	4.5	5.2	5.0
McAllen-Edinburg-Mission .....	153.9	154.0	158.5	26.4	24.5	26.8	17.2	15.9	16.9
Midland .....	49.8	49.0	49.1	2.9	2.6	2.7	5.9	5.4	5.5
Odessa .....	52.2	50.9	51.4	4.0	3.0	3.0	7.8	5.8	5.9
San Angelo .....	45.6	43.6	44.3	2.6	2.4	2.5	5.8	5.5	5.7
San Antonio .....	611.1	609.4	614.9	42.7	42.5	43.7	7.0	7.0	7.1
Sherman-Denison .....	47.4	46.6	46.9	2.7	2.4	2.4	5.6	5.1	5.2
Texarkana .....	58.0	57.2	57.7	3.7	3.3	3.5	6.4	5.8	6.1
Tyler .....	75.6	74.9	75.0	5.2	4.7	4.9	6.9	6.3	6.5
Victoria .....	36.6	36.3	35.7	2.1	1.8	1.8	5.8	5.0	4.9
Waco .....	93.9	93.0	95.4	5.0	5.7	5.8	5.3	6.1	6.0
Wichita Falls .....	56.7	55.8	56.2	3.2	3.4	3.7	5.7	6.1	6.5
<b>Utah</b> .....	809.0	808.4	817.9	33.6	35.3	34.2	4.2	4.4	4.2
Provo-Orem .....	115.6	116.5	120.6	4.3	4.1	4.1	3.7	3.6	3.4
Salt Lake City-Ogden .....	524.0	523.0	526.4	21.5	22.8	21.3	4.1	4.4	4.1
<b>Vermont</b> .....	305.6	309.1	306.8	9.9	14.1	14.1	3.2	4.5	4.6
Burlington .....	77.5	79.0	78.4	2.0	2.6	2.7	2.6	3.3	3.4
<b>Virginia</b> .....	3,145.4	3,224.5	3,215.7	122.0	131.5	139.1	3.9	4.1	4.3
Charlottesville .....	72.9	73.2	75.2	1.7	1.9	2.2	2.4	2.5	2.9
Danville .....	53.4	51.4	52.2	3.6	3.8	3.5	6.8	7.4	6.7
Lynchburg .....	74.2	73.7	74.6	4.0	3.3	3.7	5.5	4.5	4.9
Norfolk-Virginia Beach-Newport News .....	624.7	641.7	634.8	29.6	30.0	32.0	4.7	4.7	5.0
Richmond-Petersburg .....	454.0	466.0	465.0	16.3	17.9	19.8	3.6	3.8	4.3
Roanoke .....	120.1	124.6	124.2	3.9	4.3	4.7	3.3	3.5	3.8
<b>Washington</b> .....	2,448.1	2,529.3	2,454.4	140.9	117.2	103.7	5.8	4.6	4.2
Seattle .....	1,092.0	1,136.1	1,094.3	50.7	39.0	37.4	4.6	3.4	3.4
<b>West Virginia</b> .....	766.7	776.1	764.8	65.7	67.2	68.8	8.6	8.7	9.0
Charleston .....	117.0	122.0	119.5	8.0	7.6	8.2	6.8	6.2	6.8
Huntington-Ashland .....	128.9	130.9	129.8	7.3	8.4	8.2	5.7	6.4	6.3
Parkersburg-Manetta .....	72.2	74.8	72.5	4.5	6.4	5.3	6.3	8.5	7.3
Wheeling .....	72.2	73.2	72.2	4.2	3.5	3.7	5.8	4.8	5.1
<b>Wisconsin</b> .....	2,614.4	2,614.3	2,615.1	103.7	95.9	91.7	4.0	3.7	3.5
Appleton-Oshkosh-Neenah .....	173.3	174.5	175.7	6.9	6.1	6.0	4.0	3.5	3.4
Eau Claire .....	75.0	74.6	76.0	2.7	2.7	2.7	3.7	3.6	3.5
Green Bay .....	111.3	112.2	112.4	4.4	3.8	3.9	3.9	3.4	3.5
Janesville-Beloit .....	73.8	72.4	72.3	3.8	3.2	3.0	5.1	4.4	4.1
Kenosha .....	54.1	51.9	52.1	4.4	2.7	2.5	8.2	5.2	4.8
La Crosse .....	54.3	52.6	53.4	1.9	1.6	1.3	3.4	3.0	2.5
Madison .....	224.3	226.1	228.2	5.6	5.0	4.9	2.5	2.2	2.1
Milwaukee .....	769.5	773.3	775.2	30.1	28.3	26.8	3.9	3.7	3.5
Racine .....	92.8	91.6	91.5	4.5	3.6	3.5	4.9	4.0	3.8
Sheboygan .....	60.1	60.8	60.6	2.5	2.3	2.1	4.1	3.8	3.4
Wausau .....	65.4	66.2	66.1	2.5	2.3	2.2	3.9	3.5	3.3
<b>Wyoming</b> .....	240.3	245.4	242.9	13.8	9.9	10.9	5.8	4.0	4.5
Casper .....	31.1	31.0	31.2	2.0	1.5	1.7	6.5	4.9	5.5

<sup>1</sup> Data are obtained directly from the Current Population Survey. See the Explanatory Notes for State and Area Labor Force Data.  
<sup>P</sup> = preliminary.  
 NOTE: Data refer to place of residence. Estimates for 1989 have been benchmarked to 1989 Current Population Survey annual averages. Except in the

11 States and 2 areas designated by footnote 1, estimates for 1990 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

# Explanatory Notes

## 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 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, including 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 60,000 households, representing 729 areas in 1,973 counties and independent cities, 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 by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment 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 currently based on payroll reports from a sample of over 340,000 establishments employing over 40 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 day of the month.

## RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

The household and establishment data supplement one another, each providing significant types of information that the other cannot suitably supply. Population characteristics, for example, are readily obtained only from the household survey whereas detailed industrial classifications can be reliably derived only from establishment reports.

Data from these two sources differ from each other because of differences in definitions and coverage, sources 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 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, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian 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 and are classified according to the job at which they worked the greatest number of hours during the survey week. 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 survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, 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 not those on leave without pay for the entire payroll period.

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article, "Comparing Employment Estimates From Household and Payroll Surveys," *Monthly Labor Review*, December 1969.

## Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by



employers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, production or nonsupervisory employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

## Earnings

The household survey measures median 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 household survey earnings series, see *Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey*, BLS Bulletin 2113.

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job at all during the survey week 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 Department of Labor, exclude 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). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used in the household survey. For example, persons with a job but not at work and persons working only a few hours during the week are sometimes eligible for unemployment

compensation but are classified as employed rather than unemployed in the household survey.

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*.

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Economics and 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 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 THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures 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.* Data in *County Business Patterns* (CBP), published by the Bureau of the Census, U.S. Department of Commerce, 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 government, and coverage is incomplete for some of the nonprofit activities.

*Employment covered by State unemployment insurance programs.* Most nonfarm wage and salary workers are covered by the unemployment insurance programs. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in the BLS establishment statistics.

# Household Data

## (A tables)

### COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey*, BLS Bulletin 2307.

These monthly surveys of the population are conducted 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 of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions and persons under 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,600 of these households are visited 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 of between 4 and 5 percent. In addition to the 60,000 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan 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 used since 1967 are as follows:

*Employed persons* are (a) all civilians who, during the survey week, did any work at all as paid employees, 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 illness, bad weather, vacation, labor-management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey 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 the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

*Unemployed persons* are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

*Duration of unemployment* represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Measurements of mean and median duration are computed from a distribution of single weeks of 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 four major groups. (1) *Job losers* are persons whose employment ended involuntarily who immediately began looking for work, and persons on layoff. (2) *Job leavers* are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) *Reentrants* are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) *New entrants* are persons who never worked at a full-time job lasting 2 weeks or longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

*Jobseekers* are all unemployed persons who made specific

efforts to find a job sometime during the 4-week period preceding the survey week. Jobseekers do not include those persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other 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.

The *civilian labor force* comprises all civilians classified as employed or unemployed in accordance with the criteria described above. The *labor force* also includes members of the Armed Forces stationed in the United States.

The *overall unemployment rate* represents the number unemployed as a percent of the labor force, including members of the Armed Forces stationed in the United States.

The *unemployment rate for all civilian workers* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, race, Hispanic origin, marital status, etc.

*Participation rates* represent the proportion of the population that is in the labor force. The *labor force participation rate* is the ratio of the labor force, including the resident Armed Forces, to the noninstitutional population. The *civilian labor force participation rate* is the ratio of the civilian labor force to the civilian noninstitutional population. Civilian labor force participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

*Employment-population ratios* represent the proportion of the noninstitutional population that is employed. The *total employment-population ratio* is total employment, including the resident Armed Forces, as a percent of the noninstitutional population. The *civilian employment-population ratio* is the percentage of all employed civilians in the civilian noninstitutional population.

*Not in the labor force* includes all persons who are not classified as employed or unemployed. These persons are further classified as engaged in own home housework, in school, unable to work because of long-term physical or mental illness, retired, and other. The "other" group includes individuals reported as too old or temporarily unable to work, the voluntarily idle, seasonal workers for whom the survey week fell in an off season and who were not reported as looking for work, and persons who did not look for work because they believed that no jobs were available in the area or that no jobs were available for which they could qualify—discouraged workers. Persons doing only incidental, unpaid family work (less than 15 hours in the specified week) are also classified as not in labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the

time of interview, and reasons for not looking for work are published on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, i.e., the "incoming" groups.

*Occupation, industry, and class of worker* for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. Information on the detailed categories included in these groups is available upon request.

The class-of-worker breakdown specifies wage and salary workers subdivided into private and government workers; self-employed workers; and unpaid family workers. Wage and salary workers receive wages, salary, commission, 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, or trade, or operate a farm. 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.

*Hours of work* statistics relate to the actual number of hours worked during the survey 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 figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job.

Persons who worked 35 hours or more during the survey week are designated as working *full time*. Persons who worked between 1 and 34 hours are designated as working *part time*. Part-time workers are classified by their usual status at their present job (either full or part time) and by their reason for working part time during the survey week (economic or noneconomic reasons). Economic reasons include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. Noneconomic reasons include: Labor dispute, bad weather, own illness, vacation, demands of home or school, no desire for full-time work, and full-time worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

Data on employment "at work" differ from data on total employment because they exclude persons 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.

Employed persons are also categorized into full- and part-time groupings based primarily on their *usual status*. In this context, *full-time workers* are those who (a) worked 35 hours or more during the survey week, (b) worked 1 to 34 hours for economic or noneconomic reasons, but usually work full time, and (c) were with a job but not at work and usually work full time. Similarly, *part-time workers* are those who (a) voluntarily worked 1 to 34 hours during the survey week, (b) worked 1 to 34 hours for economic reasons, but usually work part time, i.e., persons who could only find part-time work, and (c) were with a job but not at work and usually work part time.

Unemployment rates for full- and part-time workers are calculated using the concepts of the *full- and part-time labor force* which are based on the type of job—full or part time—that persons—whether working or unemployed—report that they want. The "full-time labor force" includes all persons working part time but who desire full-time work, that is, working part time for economic reasons. Thus, this category consists of persons on full-time schedules; all persons involuntarily working part time regardless of their usual status; and unemployed persons seeking full-time jobs. The "part-time labor force" consists of persons working part time voluntarily and unemployed persons seeking part-time work. Employed persons with a job but not at work are distributed according to whether they usually work on full-time or voluntary part-time schedules.

*Labor force time lost* is a measure of aggregate hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming that: (1) unemployed persons looking for full-time work lost an average of 37.5 hours, (2) those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

*White, black, and other* are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-5 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

*Hispanic origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, 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* are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Data are limited to men in the civilian non-institutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

*Usual weekly earnings* data are provided from responses to the question "How much does...USUALLY earn per week at this job before deductions?" Included are any overtime pay, commissions, or tips usually received. 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 the incorporated self-employed) who usually work full time on their sole or primary job.

*Median earnings* 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* are 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 reported as members of 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, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

A *household* consists of all persons—related family members and all unrelated persons—who occupy a housing unit. 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* refers to 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 even though they may include a related subfamily, that is, a married couple or a parent-child group related by birth or marriage to the householder and sharing the living quarters. The

count of families used in this publication excludes unrelated subfamilies such as lodgers, guests, or resident employees living in a household but not related to the householder. 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 persons maintaining the family is either self-employed or in the Armed Forces.

*Poverty areas* are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untraced areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas, and conversely, the areas include many people who are not poor.

The *metropolitan areas* classification consists of the total of all Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the *1980 Census of Population Supplementary Report on Metropolitan Statistical Areas*, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.

The *urban population*, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

## HISTORICAL COMPARABILITY

### Change in lower age limit

The lower age limit for official statistics on the labor force, employment, and unemployment was raised from 14 to 16 years of age in January 1967. Insofar as possible, historical series have been revised to provide consistent information based on the population 16 years and over. For a detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series, see "New Definitions for Employment and

Unemployment," *Employment and Earnings and Monthly Report on the Labor Force*, February 1967.

### Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) 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. (2) 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. (3) 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. (4) 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; and unemployment levels and rates were essentially unchanged. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. 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.

In addition, beginning in January 1974, the methodology 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 *Employment and Earnings*.

Effective in July 1975, as a result of the immigration 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, and all of the changes were in the other 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 *Employment and Earnings*.

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 estimation 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 *Employment and Earnings*.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. 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 *Employment and Earnings*. In addition, current population estimates used in the second-stage estimation procedure are derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in total population and 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 is also described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for results obtained 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 *Employment and Earnings*. 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 methodology 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 civilian population and labor force estimates were raised by about 425,000 and 305,000, respectively, and civilian 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 have been revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appears 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.

### **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 *Employment and Earnings*.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. These systems differ from those developed for the 1970 census, which were used in the CPS from January 1971 through December 1982.

The 1980 census occupational classification system evolved from the Standard Occupational Classification system (SOC). While the CPS occupational data are now comparable with other data sources, the new system is 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 is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had much less of an adverse effect on historical comparability than did the new occupational system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation," and some interchange between "professional and related services" and "public administration."

Additional information on the 1980 census occupational and industrial classification systems appears in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*.

### Changes in the sample design

Since the inception of the survey, there have been various changes in the design of the CPS sample. Most of these changes were made in order to improve the efficiency of the sample design and/or to increase the reliability of the sample estimates.

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia

and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information, providing an opportunity to improve the efficiency of the sample design and increase the reliability for State estimates. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of *Employment and Earnings*, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8-month period, April-November 1989.

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. 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.

### 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. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was



**Table A. Characteristics of the CPS sample, 1947 to date**

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

<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.

obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city" and "balance of the MSA." Residence categories of non-MSA areas are "urban" and "rural." The proportion of sample households not interviewed varies from 4 to 5 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 residence. Since 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 estimates as follows:

a. *First-stage ratio estimate.* In the CPS, a portion of the 729 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The adjustment is made at the State level for each of the 43 States which contains nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 38 and 24 age-sex groups respectively; the other races category has 4 age-sex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race-origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985 and August 1989. The nature and effect of the 1985 changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of *Employment and Earnings*.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population using the two most recent July 1 estimates, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 957 of that series. A description of the age



estimates methodology is available in Report 1010 of that series.

Prior to January 1985, there was no separate control for Hispanics in the second-stage ratio procedure. These Hispanic controls are prepared by carrying forward the 1980 census count for Hispanics by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths and emigrants to yield an estimate of the Hispanic population by age and sex.

During the period from January 1982 to December 1984, the "inflation-deflation" method was temporarily discontinued in the preparation of the independent national controls used for the age-sex-race groups in the third step of the second-stage ratio estimation procedure. These controls were prepared by carrying forward the 1980 census data after taking account of subsequent aging of the population, births, deaths, and net migration and then subtracting the estimate for the institutional population and Armed Forces. Beginning in January 1985, the "inflation-deflation" method of deriving independent population controls was reintroduced into the CPS estimation procedure. With the "inflation-deflation" method, the independent controls are prepared by inflating the 1980 census counts to include estimated undercounts by age, sex, and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then deflated to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. Because an estimate of undercount is first added and then subtracted, the size of each race-sex group is unaffected by the "inflation-deflation" method. Similarly, the final estimate is affected only by the age structure of the undercount, but not the level. This feature of the method is important since the exact amount of undercount in the 1980 census remains unknown.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls.

For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreign-born residents has been incorporated into the post-censal population estimates since 1980. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of *Employment and Earnings*.

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent), as well as the sample results for the current month. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level are also improved, but to a lesser extent.

### **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 primarily indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration but do not measure 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., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in 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 have been 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. Compared to the level of the decennial census, undercoverage is about 6 percent. 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 combined than for whites. Ratio estimation 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. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

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.* The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated

standard error enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from 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 average result of all possible samples.

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 average of all possible samples.

3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations are required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors are computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

Tables B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the table may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of

**Table B. Standard errors for major employment status categories**

(in thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<b>Total, 16 years and over:</b>		
Civilian labor force .....	275	212
Employed .....	293	224
Unemployed .....	136	140
<b>Men, 20 years and over:</b>		
Civilian labor force .....	173	151
Employed .....	186	163
Unemployed .....	93	95
<b>Women, 20 years and over:</b>		
Civilian labor force .....	211	155
Employed .....	212	160
Unemployed .....	83	87
<b>Both sexes, 16 to 19 years:</b>		
Civilian labor force .....	88	94
Employed .....	92	102
Unemployed .....	59	66
<b>Black, 16 years and over:</b>		
Civilian labor force .....	94	73
Employed .....	104	79
Unemployed .....	68	71
<b>Men, 20 years and over:</b>		
Civilian labor force .....	59	51
Employed .....	64	57
Unemployed .....	44	47
<b>Women, 20 years and over:</b>		
Civilian labor force .....	76	50
Employed .....	76	54
Unemployed .....	45	48
<b>Both sexes, 16 to 19 years:</b>		
Civilian labor force .....	36	40
Employed .....	33	38
Unemployed .....	30	33

change between 2 consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956-66 period, they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

*Standard errors for estimated totals.* Tables D and E provide generalized standard errors for monthly totals and for month-to-month change. The figures given in these tables are to be used for the characteristics as indicated.

*Illustration.* Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. Therefore, a conclusion that the average estimate derived from all possible samples

**Table C. Standard errors for unemployment rates by major characteristics**

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive-month change		Monthly level	Consecutive-month change
<b>Total (all civilian workers)</b> .....	0.11	0.12			
Men, 20 years and over .....	.15	.15			
Women, 20 years and over .....	.16	.17			
Both sexes, 16 to 19 years .....	.67	.81			
White workers .....	.11	.12			
Black workers .....	.51	.54			
Married men, spouse present .....	.15	.17			
Married women, spouse present .....	.19	.21			
Full-time workers .....	.12	.12			
Part-time workers .....	.34	.42			
Unemployed 15 weeks and over .....	.06	.07			
			<b>Occupation—Continued</b>		
			Precision production, craft, and repair .....	0.32	0.36
			Machine operators, assemblers, and inspectors .....	.49	.55
			Transportation and material moving .....	.59	.66
			Handlers, equipment cleaners, helpers, and laborers .....	.72	.82
			Farming, forestry, and fishing .....	.68	.76
			<b>Industry</b>		
			Nonagricultural private wage and salary workers .....	.12	.13
			Mining .....	1.63	1.86
			Construction .....	.65	.75
			Manufacturing .....	.26	.29
			Durable goods .....	.33	.37
			Nondurable goods .....	.42	.47
			Transportation, communications, and public utilities .....	.42	.48
			Wholesale and retail trade .....	.27	.30
			Finance and services .....	.20	.22
			Government workers .....	.23	.25
			Agricultural wage and salary workers .....	1.16	1.32
<b>Occupation</b>					
Executive, administrative, and managerial .....	.22	.24			
Professional specialty .....	.19	.21			
Technicians and related support .....	.47	.52			
Sales .....	.29	.33			
Administrative support, including clerical .....	.23	.26			
Private household .....	1.18	1.33			
Protective service .....	.76	.85			
Service, except private household and protective .....	.39	.43			

lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 129,000.

*Standard errors for rates and percentages.* The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First obtain the standard error from table H for the specific percentage and base.

The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

*Illustration.* Assume that in a given month 2.9 percent of a total of 112,440,000 employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of 112,440,000 is obtained from table H (0.08 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 2.9 percent is then approximately  $0.08 \times 1.26 = 0.10$  percentage point.

*Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages.* The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus, to obtain the standard error of an estimate of an average level, rate, or

**Table D. Standard errors for estimates of monthly level**

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only
50	15	11	12	12	12	12	12	11	10
100	21	16	17	17	17	17	16	15	14
500	47	36	38	37	37	36	32	34	31
1,000	66	51	53	52	51	50	35	49	43
2,000	93	72	73	74	70	68	-	68	58
4,000	131	101	97	104	92	86	-	95	73
6,000	159	123	110	126	104	92	-	115	76
8,000	182	141	116	145	109	88	-	132	69
10,000	202	156	-	161	108	72	-	145	47
15,000	-	188	-	193	74	-	-	172	-
20,000	-	213	-	219	-	-	-	191	-
30,000	-	-	-	259	-	-	-	215	-
40,000	-	-	-	286	-	-	-	225	-
50,000	-	-	-	306	-	-	-	222	-
60,000	-	-	-	319	-	-	-	206	-
70,000	-	-	-	326	-	-	-	172	-
80,000	-	-	-	327	-	-	-	107	-
100,000	-	-	-	314	-	-	-	-	-
120,000	-	-	-	274	-	-	-	-	-
140,000	-	-	-	195	-	-	-	-	-

<sup>1</sup> When determining the standard error of an estimate for a group which is a subset of the age, sex, or race groups listed, use the standard error for the next larger group, e.g., when determining the standard error

of the estimated number of employed persons age 20 to 54 years, use the column for total employed.

**Table E. Standard errors for estimates of month-to-month change**

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force <sup>2</sup>	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years
50	13	14	13	14	9	9	14	14
100	18	20	19	20	12	12	20	19
500	40	45	41	38	27	27	43	37
1,000	56	63	57	41	39	38	59	39
2,000	78	89	76	-	55	52	80	-
4,000	108	124	95	-	77	68	100	-
6,000	129	150	99	-	93	78	104	-
8,000	144	-	89	-	107	82	94	-
10,000	157	-	58	-	119	81	65	-
15,000	177	-	-	-	143	59	-	-
20,000	184	-	-	-	163	-	-	-
30,000	-	-	-	-	192	-	-	-
40,000	-	-	-	-	213	-	-	-
50,000	-	-	-	-	228	-	-	-
60,000	-	-	-	-	238	-	-	-
70,000	-	-	-	-	244	-	-	-
80,000	-	-	-	-	245	-	-	-
100,000	-	-	-	-	237	-	-	-
120,000	-	-	-	-	212	-	-	-
140,000	-	-	-	-	160	-	-	-

<sup>1</sup> See footnote 1, table D.

<sup>2</sup> Part-time labor force for unemployment also includes persons reentering

the labor force, persons who left their last job, and persons by duration of unemployment.

percentage, or an estimate of a change in level, rate, or percentage, it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate, or percentage, find the standard error of this estimate. For an estimate of change in level, rate, or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table J to obtain the approximate standard error for the average or change.

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that a year prior to this the unemployment rate was 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, is obtained from table F (0.11 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.11 x 1.40 = 0.15 percentage point.

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for persons and families may be obtained by using table K in conjunction with the following formula:

$$\text{Standard error of year-to-year change} = \sqrt{\left(\frac{\text{Standard error}}{X}\right)^2 + \left(\frac{\text{Standard error}}{Y}\right)^2 - 2(P) \left(\frac{\text{Standard error}}{X}\right) \left(\frac{\text{Standard error}}{Y}\right)}$$

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the correlation between the estimates X and Y resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of P are 0.30 for persons (total, white, and black) and 0.35 for families (total, white, and black). The respective values for estimates of Hispanics are 0.45 and 0.55.

*Illustration.* Assume that in a given quarter the number of women employed as full-time wage and salary workers was 27,000,000 and in the same quarter a year later, their number had increased to 29,000,000. Using linear interpolation in the eighth column of table K, the standard error of an estimate of 27,000,000 is 216,000; for 29,000,000 it is 221,000. Using the above formula, the standard error of the 2,000,000 year-to-year change is:

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(0.30) (216,000) (221,000)},$$

or about 259,000.

**Table F. Standard errors for unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.28	3.20	4.98	6.85	8.13	9.09	9.82	10.36	10.75	11.12
100	1.61	2.26	3.52	4.84	5.75	6.43	6.94	7.33	7.60	7.87
500	.72	1.01	1.58	2.16	2.57	2.88	3.11	3.28	3.40	3.52
1,000	.51	.72	1.11	1.53	1.82	2.03	2.20	2.32	2.40	2.49
2,000	.36	.51	.79	1.08	1.29	1.44	1.55	1.64	1.70	1.76
4,000	.25	.36	.56	.77	.91	1.02	1.10	1.16	1.20	1.24
6,000	.21	.29	.45	.62	.74	.83	.90	.95	.98	1.02
10,000	.16	.23	.35	.48	.58	.64	.69	.73	.76	.79
20,000	.11	.16	.25	.34	.41	.45	.49	.52	.54	.56
60,000	.07	.09	.14	.20	.24	.26	.28	.30	.31	.32
100,000	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
120,000	.05	.07	.10	.14	.17	.19	.20	.21	.22	.23
140,000	.04	.06	.09	.13	.15	.17	.19	.20	.21	.21

**Table G. Standard errors for month-to-month change in unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.87	13.71	15.67
100	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000	.28	.40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000	.13	.18	.28	.38	.46	.51	.56	.60	.62	-
60,000	.07	.10	.16	.21	.24	.27	.28	-	-	-
100,000	.06	.08	.12	.15	.17	.18	-	-	-	-
120,000	.05	.07	.11	.14	.15	-	-	-	-	-
140,000	.05	.07	.10	-	-	-	-	-	-	-

**Table H. Standard errors for estimated percentages and month-to-month change in percentages for labor force data**

Monthly base of percentages (in thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.34	3.29	5.12	7.05	8.39	9.40	10.18	10.77	11.21	11.75
100	1.65	2.33	3.62	4.99	5.94	6.65	7.20	7.62	7.93	8.31
500	.74	1.04	1.62	2.23	2.65	2.97	3.22	3.41	3.55	3.72
1,000	.52	.74	1.15	1.58	1.88	2.10	2.28	2.41	2.51	2.63
2,000	.37	.52	.81	1.12	1.33	1.49	1.61	1.70	1.77	1.86
4,000	.26	.37	.57	.79	.94	1.05	1.14	1.20	1.25	1.31
6,000	.21	.30	.47	.64	.77	.86	.93	.98	1.02	1.07
10,000	.17	.23	.36	.50	.59	.66	.72	.76	.79	.83
20,000	.12	.16	.26	.35	.42	.47	.51	.54	.56	.59
40,000	.08	.12	.18	.25	.30	.33	.36	.38	.40	.42
60,000	.07	.10	.15	.20	.24	.27	.29	.31	.32	.34
80,000	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
100,000	.05	.07	.11	.16	.19	.21	.23	.24	.25	.26
120,000	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
140,000	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22
160,000	.04	.06	.09	.12	.15	.17	.18	.19	.20	.21

NOTE: The standard errors in this table must be multiplied by the factors in table I to obtain the approximate standard error for a specific characteristic.

**Table I. Factors to be used with table H to compute approximate standard errors for percentages and month-to-month change in percentages**

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force .....	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force .....	1.01	1.21
Part-time labor force .....	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment and unemployment:			Total or white:		
Total .....	1.00	.74	Total .....	.97	1.08
Men only .....	.93	.84	Both sexes, 16 to 19 years .....	.97	1.21
Women only .....	.86	.75	Black:		
Both sexes, 16 to 19 years .....	1.00	1.18	Total .....	1.04	1.13
Part-time labor force .....	1.00	1.18	Both sexes, 16 to 19 years .....	1.04	1.24

**Table J. Factors to be used with tables D, F, H, and I 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	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years) .....	1.30	.83	.80	.58	.70
Part time .....	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment and unemployment:					
Total or white .....	1.30	.88	.88	.67	.70
Black or teenagers (16 to 19 years) .....	1.30	.82	.88	.57	.70
Part time .....	1.40	.74	.88	.46	.60
Unemployment:					
Total .....	1.40	.76	.88	.50	.65
Part time .....	1.40	.69	.88	.39	.54

**Table K. Standard errors for estimates of quarterly levels, to be used with CPS earnings data**

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men				Women	
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10	5	5	5	5	5	5	5	5	5
50	11	12	12	11	12	12	11	11	11
75	13	15	15	13	15	15	15	13	13
100	15	17	17	15	17	17	17	15	15
150	19	21	21	19	21	21	21	19	19
200	22	24	24	22	24	24	24	22	21
250	24	27	27	24	27	27	27	24	24
300	26	30	30	26	30	30	29	26	26
500	34	38	38	34	38	38	37	34	33
750	42	47	46	42	47	47	45	42	41
1,000	48	54	53	48	54	54	50	48	46
1,500	59	66	63	59	66	66	59	59	56
2,000	68	76	72	68	76	76	65	68	63
2,500	76	85	79	75	84	84	69	75	69
3,000	83	93	85	82	92	92	71	82	74
5,000	107	119	100	105	117	116	64	105	85
7,500	130	145	107	127	140	138	64	127	88
10,000	149	165	102	144	157	155	-	145	-
15,000	180	198	102	187	183	179	-	173	-
20,000	205	224	-	192	199	193	-	195	-
25,000	226	244	-	207	209	199	-	211	-
30,000	224	261	-	219	212	198	-	224	-
40,000	273	286	-	233	201	174	-	242	-
50,000	296	301	-	-	160	100	-	249	-
75,000	331	304	-	-	160	-	-	-	-
100,000	343	255	-	-	-	-	-	-	-



# Establishment Data (Tables B-1 through C-8)

## COLLECTION

Payroll reports provide current information on wage and salary employment, hours, and earnings in nonfarm establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, and Employment, Hours, and Earnings, States and Areas*, and their supplements.

### Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data to State agencies. State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the reported data to prepare State and area series and also send the reported data to the BLS (Washington Office) for use in preparing the national series. This avoids a duplicate reporting burden on establishments, and, together with the use of similar estimating techniques at the national and State levels, promotes increased comparability between estimates.

### Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonfarm establishments and, for most industries, employment, payroll, and hours of production and related workers or non-supervisory workers for the pay period which includes the 12th of the month.

## 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 (SIC) Manual*, Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

### 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 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-7).* 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 (three-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 three-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* include 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* include 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* include 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* covers 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 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. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

*Hours* cover 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* cover 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 figures 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.

Since 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 (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, as defined above. 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 make-up 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,* or earnings in constant dollars, 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).

## ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the establishment statistics are (1) the use of the "link relative" technique, which is a form of ratio estimation; (2) periodic adjustment of employment levels to new benchmarks; and (3) the use of size and regional stratification.

### The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current-month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and non-production workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, bias correction factors are applied to most employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the

sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

a size stratum, a region stratum, or a size stratum of a region within an industry.

### Size and regional stratification

A number of industries are stratified by size of establishment and/or by region, and the stratified production or non-supervisory worker data are used to weight the hours and earnings for aggregation into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, may be a whole industry or

### Benchmark adjustments

Employment estimates are compared periodically with benchmarks (comprehensive counts of employment) for the various nonfarm industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1989 levels. Benchmark adjustments are made annually.

The primary sources of benchmark information are

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

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

<sup>1</sup> The estimates are computed by multiplying the above product by bias adjustment 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.

agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonfarm payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1988 benchmark adjustment is shown in table M.

Normally, data for all months since the last benchmark to which the series has been adjusted are subject to revision. Revised data are published as soon as possible after each benchmark revision.

## THE SAMPLE

### Design

The sampling plan used in the establishment survey is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a larger percent of total employment is

**Table M. Comparison of nonfarm employment benchmarks and estimates for March 1989**

(In thousands)

Industry	Benchmark	1987 SIC-based estimate	Difference	
			Level	Percent
Total	107,026	107,073	-47	( <sup>1</sup> )
Mining	678	703	-25	-3.7
Construction	4,741	4,813	-72	-1.5
Manufacturing	19,396	19,585	-189	-1.0
Transportation and public utilities	5,549	5,646	-97	-1.7
Wholesale trade	6,195	6,145	50	.8
Retail trade	19,115	19,023	92	.5
Finance, insurance, and real estate	6,639	6,714	-75	-1.1
Services	26,702	26,479	223	.8
Government	18,011	17,965	46	.3

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

included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small 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 design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS establishment survey program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat late date, statistics in considerably greater industrial detail.

### Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table N shows the latest benchmarks and the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown.

### Reliability

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may accumulate over several months. To remove this accumulated error, the estimates are adjusted annually to new benchmarks. In addition to taking account of sampling and

**Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1989**

Industry	Benchmarks (thousands)	Sample coverage <sup>1</sup>		
		Number of establishments	Employees	
			Number (thousands)	Percent of benchmarks
Total .....	107,026	282,003	39,158	37
Mining .....	678	3,352	261	38
Construction .....	4,741	27,194	948	20
Manufacturing .....	19,396	51,253	9,377	48
Transportation and public utilities .....	5,549	214,673	22,149	39
Wholesale trade .....	6,195	25,311	1,120	18
Retail trade .....	19,115	55,477	4,136	22
Finance, insurance, and real estate .....	6,639	21,001	2,139	32
Services .....	26,702	63,877	6,184	23
Government:				
Federal .....	2,976	( <sup>3</sup> )	2,976	100
State .....	4,257	4,437	3,207	75
Local .....	10,778	15,428	6,661	62

<sup>1</sup> Counts reflect reports used in final estimates. Since 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. 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 5,000 reports covering about 56 percent of employment in Federal establishments.

**Table O. Average benchmark revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry**

(In percent)

Industry	Average benchmark revision in employment estimates <sup>1</sup>	Relative error <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total .....	0.2	-	-
Total private .....	.2	0.1	0.2
Mining .....	2.6	1.0	1.3
Construction .....	1.4	.2	.5
Manufacturing .....	.8	.1	.2
Durable goods .....	.6	.1	.3
Nondurable goods .....	.9	.1	.2
Transportation and public utilities .....	.7	.7	.6
Wholesale trade .....	1.1	.2	.4
Retail trade .....	.5	.2	.4
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.4	.4	.6
Government <sup>3</sup> .....	.4	-	-

<sup>1</sup> The average percent revision in employment for the 1985-89 benchmarks.

<sup>2</sup> Relative errors relate to 1982 data.

<sup>3</sup> Data for government are based on a total count for Federal Government provided by the Office of Personnel Management and a sample of State and local government reports.

response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes

in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors, which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates:

$$RMSE = \sqrt{(standard\ deviation)^2 + (bias)^2}$$

If the bias is small, the chances are about 2 out of 3 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. The chances are about 19 out of 20 that the difference would be less than twice the root-mean-square error.

Approximations of the root-mean-square errors (based on the most recent benchmark revisions) of differences between final estimates and benchmarks are presented in table P.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of

**Table P. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings**

Size of employment estimate	Root-mean-square error of employment estimates <sup>1</sup>	Relative error <sup>2</sup> (in percent)	
		Average weekly hours	Average hourly earnings
50,000 .....	2,100	2.2	4.0
100,000 .....	3,900	1.3	2.3
200,000 .....	5,600	1.1	2.0
500,000 .....	14,000	.9	1.6
1,000,000 .....	15,000	.8	1.2
2,000,000 .....	26,000	.5	.9

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

<sup>2</sup> Relative errors relate to 1982 data.

the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. 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.

## STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas. Defini-

tions 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. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

**Table Q. Errors of preliminary employment estimates**

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total .....	76,100	75,200	Nondurable goods—Continued		
Total private .....	59,700	57,100	Printing and publishing .....	2,100	2,000
Goods-producing industries .....	21,700	21,100	Chemicals and allied products .....	2,600	2,800
Mining .....	3,700	3,400	Petroleum and coal products .....	1,200	1,200
Oil and gas extraction .....	3,100	2,800	Rubber and misc. plastics products .....	1,600	1,600
Construction .....	13,800	14,600	Leather and leather products .....	1,400	1,300
General building contractors .....	5,200	5,400	Service-producing industries .....	71,200	69,300
Manufacturing .....	16,700	17,700	Transportation and public utilities .....	14,500	12,900
Durable goods .....	12,600	11,600	Transportation .....	12,600	10,500
Lumber and wood products .....	2,100	1,900	Communications and public utilities .....	5,500	4,900
Furniture and fixtures .....	1,600	1,600	Wholesale trade .....	7,800	7,100
Stone, clay, and glass products .....	1,500	1,500	Durable goods .....	5,600	4,900
Primary metal industries .....	4,000	3,800	Nondurable goods .....	4,900	4,300
Blast furnaces and basic steel products .....	3,000	2,700	Retail trade .....	35,200	30,800
Fabricated metal products .....	2,200	2,100	General merchandise stores .....	22,300	19,800
Industrial machinery and equipment .....	5,600	6,600	Food stores .....	7,000	6,100
Electronic and other electrical equipment .....	4,200	4,100	Automotive dealers and service stations .....	4,000	4,900
Transportation equipment .....	7,200	6,700	Eating and drinking places .....	8,800	7,700
Motor vehicles and equipment .....	6,000	6,100	Finance, insurance, and real estate .....	8,000	6,700
Instruments and related products .....	2,000	2,100	Finance .....	4,000	3,500
Miscellaneous manufacturing .....	1,800	1,600	Insurance .....	3,600	3,000
Nondurable goods .....	8,300	8,200	Real estate .....	4,300	3,800
Food and kindred products .....	5,200	4,900	Services .....	31,000	32,100
Tobacco products .....	1,400	1,300	Business services .....	11,000	10,400
Textile mill products .....	1,800	1,600	Health services .....	8,500	7,800
Apparel and other textile products .....	4,300	4,000	Government .....	51,900	45,800
Paper and allied products .....	1,500	1,400	Federal .....	16,100	11,600
			State .....	20,800	16,900
			Local .....	35,600	36,200

NOTE: Data are based on differences from December 1984 through December 1989.

## Productivity Data (Tables C-9 through C-11)

### COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment and household survey labor input data and from measures of compensation and output supplied by the U.S. Department of Commerce and the Federal Reserve Board.

### CONCEPTS

*Hours* of wage and salary workers in nonagricultural establishments (table C-9) refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers. For productivity and cost measures (tables C-10, 11), hours of all persons include hours of employees, proprietors, and unpaid family workers. Labor input is measured by hours at the work site.

*Output* is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of all persons (productivity) measure changes in the volume of goods and services produced per hour at work.

*Compensation per hour* includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

*Real compensation per hour* is compensation per hour adjusted by the Consumer Price Index for All Urban Consumers (CPI-U).

*Unit labor costs* measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour.

*Unit nonlabor payments* include profits, capital consump-

tion allowances, interest, rental income of persons, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross product originating in the sector and dividing by output. In these tables, *unit nonlabor costs* contain all the components of unit nonlabor payments except unit profits.

*Unit profits* include corporate profits and inventory valuation and capital consumption adjustments per unit of output.

The *implicit price deflator* is derived by dividing the current-dollar estimate of gross product by the constant-dollar estimate, making the deflator, in effect, a price index for gross product of the sector reported.

### NOTES ON THE DATA

For the business sector and the nonfarm business sector, these indexes relate to the gross domestic product less general government, households and institutions, owner-occupied housing, and the statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business. All measures are seasonally adjusted.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis.

Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202-523-9261).

## State and Area Labor Force Data (D table)

### 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 are derived 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 and Partnership Act, the Economic Dislocation and Worker Adjustment Assistance Act, and the Urban Development Action Grant program.

Annual average data for the States and areas shown in table

D 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 2,600 labor market areas. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. 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.* The civilian labor force and unemployment estimates for the 11 largest States—California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas—are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. 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 CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.

Two models—one for employment and one for the unemployment rate—are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.

The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the self-employed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-to-population ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment 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 models are termed "variable coefficient models" because they include 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, the unemployment level and labor force estimates are calculated.

*Benchmark correction procedures.* Once each year, monthly estimates for the 39 non-direct-use 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 average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

### Estimates for sub-State areas

Monthly labor force and employment estimates for two large sub-State areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained directly from the CPS. Estimates for all other sub-State areas, more than 2,600 labor market areas (LMA's), are prepared through indirect estimation techniques, described below.

*Preliminary estimate—employment.* The total civilian employment estimates are based 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 for several categories of employment on the basis of employment relationships at the time of the 1980 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—agriculture, 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 three categories: (1) persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) 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 LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

*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 claims counts, and updated historical

relationships. The corrected estimates are then readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

## Seasonal Adjustment

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

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.

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 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.

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, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall 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.

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 rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April–March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are calculated and published twice a year. Revisions of historical data will continue to be made once a year, coincident with benchmark revisions.

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component 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 has developed 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. This extension was also used for the seasonal adjustment of many of the establishment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

Revised seasonally adjusted establishment-based series based on the experience through May 1990, new seasonal adjustment factors for August 1990–April 1991, and a description of the current seasonal adjustment procedure appear in the September 1990 issue of *Employment and Earnings*.

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Bureau of Labor Statistics**

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