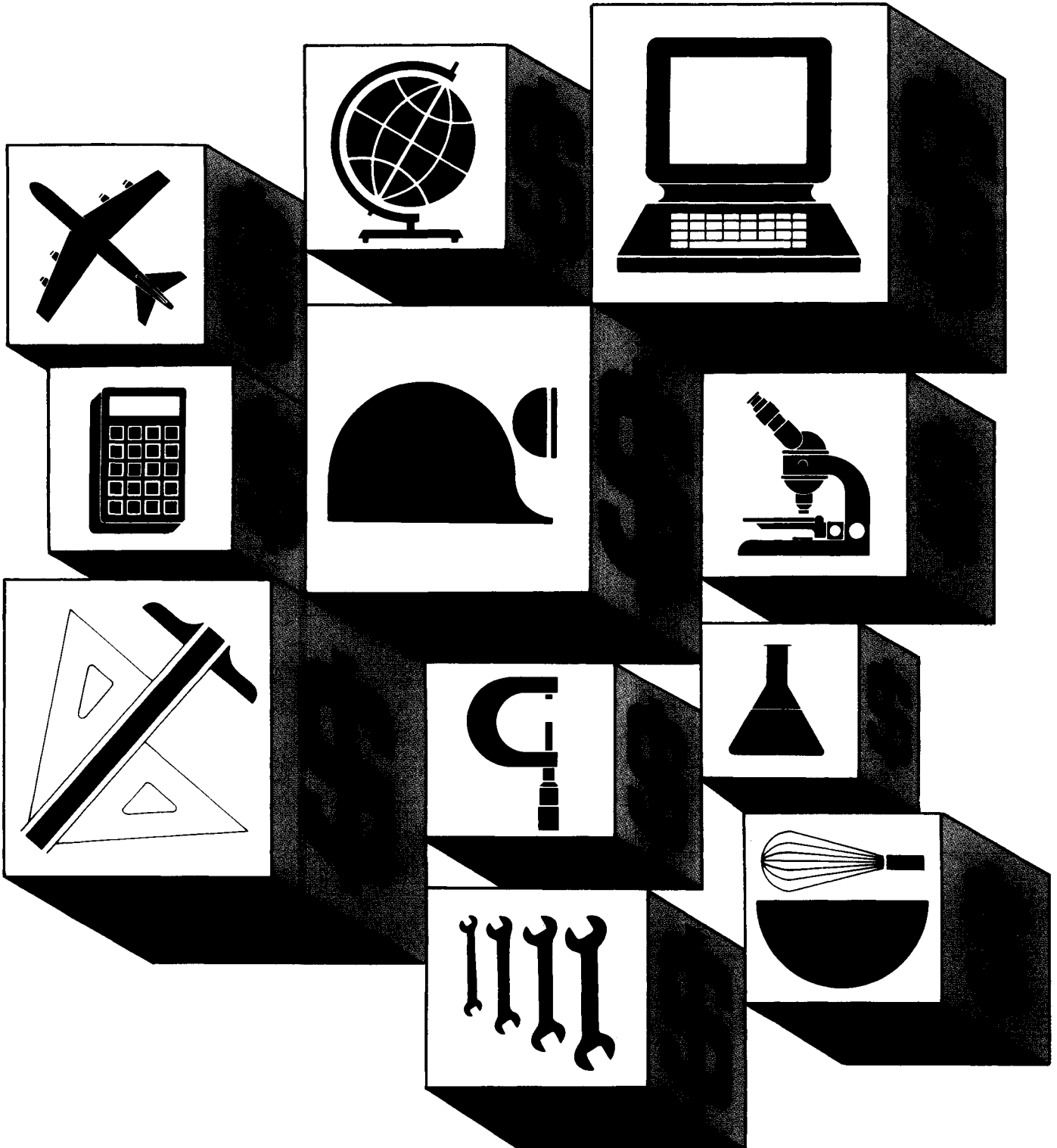


# EMPLOYMENT AND EARNINGS

U.S. Department of Labor  
Bureau of Labor Statistics  
August 1991





## U.S. DEPARTMENT OF LABOR

Lynn Martin, Secretary

## Calendar of Features

### BUREAU OF LABOR STATISTICS

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

### Household data

Annual averages	Jan.
Union affiliation	Jan.
Earnings by detailed occupation	Jan.
Employee absences	Jan.
Revised seasonally adjusted series	Jan., 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
Revised historical national data	Supplement <sup>1</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 latest supplement was published in July 1991.

# Employment and Earnings

Vol. 38 No. 8 August 1991

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Editors: Gloria Peterson Green, Eugene H. Becker

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# Employment and Unemployment Developments, July 1991

The unemployment rate receded from 7.0 percent in June to 6.8 percent in July, after edging up in prior months. Employment as measured in both the business and household surveys changed little over the month. In general, the labor market has shown no clear trend over the past few months.

## Unemployment

The number of unemployed persons eased back to 8.5 million in July (seasonally adjusted). The jobless level was still 1.6 million higher than in July 1990, when the recession began. The unemployment rate fell by two-tenths of a percentage point to 6.8 percent and stands 1.3 percentage points higher than its year-earlier level. (See table A-33.)

Jobless rates for blacks and adult women declined over the month. The rate for black workers (11.8 percent) was 1.3 percentage points lower than in June. The rate for adult women (5.4 percent) fell five-tenths of a percentage point in July, while the rate for adult men (6.5 percent) was about the same in July as it was in June. Since the beginning of the recession, the adult female rate has risen 0.7 percentage point, whereas the male rate increased by 1.6 points. The unemployment rate for teens increased to 20.6 percent in July, up 4.8 percentage points since the beginning of the recession and the highest level since October 1983. (See tables A-33 and A-34.)

The number of persons unemployed because they had lost their last jobs (as distinguished from persons who left their jobs voluntarily and searched for other jobs, and those who entered the labor force to seek work) decreased by 270,000 in July, reversing an increase in the prior month. At 5.9 million, the number of persons who were employed part time for economic reasons (often referred to as the partially unemployed) was little changed over the month but was 940,000 higher than a year earlier. (See tables A-35 and A-41.)

## Total employment and the labor force

At 116.7 million, total employment was little changed in July. While 1.2 million lower than a year earlier, the series has shown no clear trend over the past 4 months. The employment-population ratio—the proportion of the working-age population with jobs—was 61.5 percent in July, about the same as in the prior 2 months but down from 62.7 percent at the start of the recession. (See table A-33.)

The labor force declined by 420,000 in July to 125.2 million, reversing an increase of similar magnitude in June. Since last July, the overall labor force has risen by only 430,000, while that for teenagers has actually declined by about 600,000. The labor force participation rate—the proportion of working-age persons either employed or actively seeking employment—was 66.0 percent in July, down slightly from a year earlier. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment was essentially unchanged in July. This was the second consecutive month of stability, following a moderate increase in May. In contrast to this recent pattern, employment had declined by about 220,000 a month, on average, during the January-April period. (See table B-4.)

The number of factory jobs was unchanged in July at 18.4 million, after declining by 50,000 in June. Employment in motor vehicles, textiles, and apparel rose, after seasonal adjustment, primarily because some temporary plant shutdowns and layoffs that usually happen at this time of year did not occur until after the survey period. These developments were largely offset by continued job losses in industrial machinery and electronic equipment and a large reduction in the volatile food processing industry.

Employment in mining was also unchanged in July for the second month in a row. Construction employment fell by 20,000, seasonally adjusted, as fewer workers than normal were hired.

Employment in each of the major industries in the service-producing sector was about unchanged in July, with the exception of wholesale trade. Declines in this industry have shown no sign of abating, as the number of jobs fell by about 20,000, almost entirely in the distribution of durable goods. In contrast, the number of retail trade jobs held about steady, but has shown limited growth since April after declining markedly over the prior 8-month period. Jobs in the services industry, which had increased in each of the prior 2 months, also were unchanged in July, even though employment in the health services component continued to increase.

## Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls fell by 0.4 hour

in July to 34.1 hours, seasonally adjusted. This decline essentially erased gains that had occurred in the prior 2 months. The manufacturing workweek, however, edged down by only a tenth of an hour to 40.7 hours, thus preserving most of its strong upsurge since April. Manufacturing overtime remained at 3.7 hours. (See table C-5.)

As a result of the decline in the workweek, the index of aggregate weekly hours of private production or nonsupervisory workers fell by 1.4 percent to 120.4 (1982=100) in July, seasonally adjusted. The index for manufacturing was unchanged at 102.1. Over the year, the factory index was down by 4.8 percent. (See table C-6.)

### Hourly and weekly earnings

Average hourly earnings of private production or non-supervisory workers were about unchanged in July at \$10.36, seasonally adjusted. This followed an increase of 0.5 percent in June. Due to the decline in the workweek, average weekly earnings decreased by 1.3 percent to \$353.28 in July. Prior to seasonal adjustment, average hourly earnings edged down by 1 cent and average weekly earnings were down by \$2.41. Over the year, average hourly earnings increased by 3.1 percent and average weekly earnings by 1.9 percent. (See tables C-1 and C-7.)

<b>Scheduled Release Dates</b>			
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>
August	September 6	November	December 6
September	October 4	December	January 10
October	November 1	January	February 7

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1958 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>												
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	120,871	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	97,879	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	62,839	
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	
1990	189,686	126,424	66.6	119,550	1,637	117,914	3,186	114,728	6,874	5.4	63,262	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1990:</b>												
July	189,763	126,336	66.6	119,509	1,627	117,882	3,108	114,774	6,827	5.4	63,427	
August	189,901	126,345	66.5	119,330	1,640	117,690	3,152	114,538	7,015	5.6	63,556	
September	190,002	126,571	66.6	119,484	1,601	117,883	3,194	114,689	7,087	5.6	63,431	
October	190,095	126,445	66.5	119,303	1,570	117,733	3,175	114,558	7,142	5.6	63,650	
November	190,312	126,338	66.4	119,001	1,615	117,386	3,185	114,201	7,337	5.8	63,974	
December	190,483	126,791	66.6	119,191	1,617	117,574	3,253	114,321	7,600	6.0	63,692	
<b>1991:</b>												
January	190,592	126,253	66.2	118,537	1,615	116,922	3,163	113,759	7,715	6.1	64,339	
February	190,717	126,678	66.4	118,520	1,602	116,918	3,222	113,696	8,158	6.4	64,039	
March	190,703	126,786	66.5	118,214	1,460	116,754	3,098	113,656	8,572	6.8	63,917	
April	190,836	127,128	66.6	118,854	1,456	117,398	3,156	114,243	8,274	6.5	63,708	
May	190,980	126,690	66.3	118,049	1,458	116,591	3,272	113,319	6,640	6.8	64,291	
June	191,173	127,134	66.5	118,389	1,505	116,884	3,308	113,576	8,745	6.9	64,039	
July	191,443	126,818	66.2	118,316	1,604	116,712	3,239	113,474	8,501	6.7	64,625	

<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, 1980 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>											
1980 .....	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.6	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 .....	85,158	65,386	76.6	60,842	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> .....	67,349	66,673	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	63,864	1,577	62,107	2,543	59,564	4,101	6.1	20,692
1988 .....	89,404	66,474	76.8	64,620	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
1990 .....	91,122	69,705	76.5	65,906	1,472	64,435	2,507	61,928	3,799	5.4	21,417
<b>Monthly data, seasonally adjusted<sup>2</sup></b>											
<b>1990:</b>											
July .....	91,168	69,523	76.3	65,728	1,462	64,266	2,478	61,788	3,795	5.5	21,645
August .....	91,240	69,552	76.2	65,863	1,475	64,188	2,477	61,711	3,689	5.6	21,688
September .....	91,271	69,814	76.5	65,853	1,441	64,412	2,512	61,900	3,961	5.7	21,457
October .....	91,299	69,804	76.5	65,822	1,414	64,408	2,504	61,904	3,982	5.7	21,495
November .....	91,440	69,899	76.4	65,790	1,453	64,337	2,518	61,819	4,109	5.9	21,541
December .....	91,537	70,058	76.5	65,781	1,454	64,327	2,572	61,755	4,277	6.1	21,479
<b>1991:</b>											
January .....	91,590	69,543	75.9	65,251	1,453	63,798	2,466	61,331	4,292	6.2	22,047
February .....	91,650	69,749	76.1	65,043	1,439	63,604	2,520	61,064	4,706	6.7	21,901
March .....	91,587	69,808	78.2	64,846	1,314	63,532	2,456	61,076	4,962	7.1	21,779
April .....	91,652	69,855	76.2	65,112	1,310	63,802	2,504	61,298	4,743	6.8	21,797
May .....	91,720	69,704	78.0	64,746	1,303	63,443	2,596	60,647	4,957	7.1	22,017
June .....	91,839	69,793	76.0	64,750	1,345	63,405	2,640	60,785	5,043	7.2	22,046
July .....	92,023	69,821	75.9	64,820	1,431	63,389	2,586	60,803	5,001	7.2	22,202
<b>Annual averages</b>											
<b>WOMEN</b>											
1980 .....	88,472	45,611	51.6	42,241	124	42,117	658	41,461	3,370	7.4	42,661
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 .....	91,627	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,161
1984 .....	92,924	49,855	53.7	46,061	146	45,915	853	45,262	3,794	7.6	43,068
1985 .....	93,686	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,668
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
1990 .....	98,564	56,719	57.5	53,844	165	53,479	679	52,800	3,075	5.4	41,845
<b>Monthly data, seasonally adjusted<sup>2</sup></b>											
<b>1990:</b>											
July .....	98,595	56,813	57.6	53,781	165	53,616	630	52,986	3,032	5.3	41,782
August .....	98,661	56,793	57.8	53,667	165	53,502	675	52,827	3,126	5.5	41,868
September .....	98,731	56,757	57.5	53,631	160	53,471	682	52,789	3,126	5.5	41,974
October .....	98,796	56,641	57.3	53,481	156	53,325	671	52,654	3,160	5.8	42,155
November .....	98,872	56,439	57.1	53,211	162	53,049	667	52,382	3,228	5.7	42,433
December .....	98,946	56,733	57.3	53,410	163	53,247	681	52,566	3,323	5.9	42,213
<b>1991:</b>											
January .....	99,002	56,710	57.3	53,287	162	53,125	697	52,428	3,423	6.0	42,292
February .....	99,067	56,929	57.5	53,477	163	53,314	703	52,611	3,452	6.1	42,138
March .....	99,116	56,978	57.5	53,968	146	53,222	642	52,580	3,610	6.3	42,138
April .....	99,184	57,273	57.7	53,742	146	53,598	651	52,945	3,531	6.2	41,911
May .....	99,260	56,966	57.4	53,303	155	53,148	676	52,473	3,683	6.5	42,274
June .....	99,334	57,341	57.7	53,639	160	53,479	668	52,811	3,702	6.5	41,993
July .....	99,421	56,997	57.3	53,496	173	53,323	653	52,670	3,500	6.1	42,424

<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, 1958 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
<b>Annual averages</b>								
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	85,646	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
1990 .....	188,049	124,787	66.4	117,914	6,874	5.5	5.6	5.4
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1990:</b>								
July .....	188,136	124,709	66.3	117,882	6,827	5.5	5.6	5.4
August .....	188,261	124,705	66.2	117,690	7,015	5.6	5.7	5.5
September .....	168,401	124,970	66.3	117,883	7,087	5.7	5.8	5.5
October .....	186,525	124,875	66.2	117,733	7,142	5.7	5.8	5.6
November .....	188,697	124,723	66.1	117,386	7,337	5.9	6.0	5.7
December .....	188,866	125,174	66.3	117,574	7,600	6.1	6.2	5.9
<b>1991:</b>								
January .....	188,977	124,638	66.0	116,922	7,715	6.2	6.3	6.1
February .....	189,115	125,076	66.1	116,918	8,158	6.5	6.9	6.1
March .....	189,243	125,326	66.2	116,754	8,572	6.8	7.2	6.4
April .....	189,380	125,672	66.4	117,398	8,274	6.6	6.9	6.2
May .....	189,522	125,232	66.1	116,591	8,640	6.9	7.2	6.5
June .....	189,668	125,629	66.2	116,884	8,745	7.0	7.4	6.5
July .....	189,839	125,214	66.0	116,712	8,501	6.8	7.3	6.2

<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—Continued

(Numbers in thousands)

Age, sex, and race	July 1991										
	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>											
18 years and over .....	21,631	13,903	64.3	12,192	1,711	12.3	7,728	2,985	585	853	3,304
16 to 19 years .....	2,098	1,029	49.1	678	351	34.1	1,068	214	278	9	589
16 to 17 years .....	1,040	408	39.2	259	149	36.5	633	90	151	8	385
18 to 19 years .....	1,057	622	58.8	420	202	32.5	438	124	125	2	184
20 to 24 years .....	2,470	1,714	69.4	1,356	358	20.9	756	356	133	27	241
25 to 54 years .....	12,338	9,733	78.9	8,796	937	9.6	2,606	1,381	170	373	681
25 to 34 years .....	5,345	4,230	79.1	3,713	517	12.2	1,115	830	105	73	307
25 to 29 years .....	2,631	2,060	78.3	1,766	284	14.3	571	321	52	34	163
30 to 34 years .....	2,714	2,170	79.9	1,947	222	10.3	544	309	52	39	144
35 to 44 years .....	4,296	3,474	80.9	3,185	289	8.3	822	440	50	136	196
35 to 39 years .....	2,355	1,913	81.2	1,721	192	10.0	442	238	40	46	118
40 to 44 years .....	1,942	1,562	80.4	1,464	97	6.2	380	202	10	90	78
45 to 54 years .....	2,697	2,029	75.2	1,898	131	6.4	668	311	16	164	178
45 to 49 years .....	1,431	1,155	80.7	1,079	78	6.6	276	131	14	62	69
50 to 54 years .....	1,266	874	69.0	819	55	8.3	392	180	1	102	109
55 to 64 years .....	2,159	1,182	53.8	1,107	54	4.7	997	396	-	179	422
55 to 59 years .....	1,120	708	63.2	671	37	5.2	412	169	-	107	136
60 to 64 years .....	1,039	454	43.7	436	18	3.9	585	227	-	72	285
65 years and over .....	2,566	265	10.3	254	11	4.3	2,301	637	6	266	1,392
65 to 69 years .....	894	166	18.5	159	6	3.9	728	227	4	57	440
70 to 74 years .....	893	59	8.5	56	3	( <sup>1</sup> )	634	177	-	72	384
75 years and over .....	979	40	4.1	39	2	( <sup>1</sup> )	939	233	3	136	567
<b>Men</b>											
16 years and over .....	9,726	6,977	71.7	8,080	897	12.9	2,748	188	251	448	1,881
16 to 19 years .....	1,042	528	50.7	383	165	31.3	514	60	159	6	288
16 to 17 years .....	526	232	44.1	149	84	36.0	294	30	78	6	180
18 to 19 years .....	515	296	57.4	214	82	27.6	219	30	81	-	109
20 to 24 years .....	1,138	937	82.3	734	203	21.7	201	33	31	18	119
25 to 54 years .....	5,530	4,758	86.0	4,268	490	10.3	772	69	57	236	408
25 to 34 years .....	2,416	2,110	87.3	1,857	253	12.0	307	24	42	55	185
25 to 29 years .....	1,187	1,037	87.3	906	131	12.6	150	14	20	22	94
30 to 34 years .....	1,229	1,073	87.3	951	122	11.4	156	10	22	33	91
35 to 44 years .....	1,922	1,667	86.7	1,505	162	9.7	255	26	14	89	125
35 to 39 years .....	1,055	919	87.1	801	118	12.8	136	14	12	35	74
40 to 44 years .....	868	748	86.2	704	44	5.9	120	12	3	54	51
45 to 54 years .....	1,191	982	82.4	907	75	7.6	210	19	-	94	97
45 to 49 years .....	834	550	66.7	501	49	8.9	84	5	1	36	42
50 to 54 years .....	557	432	77.5	407	25	5.9	125	13	-	57	58
55 to 64 years .....	977	622	63.7	588	35	5.6	355	5	-	95	254
55 to 59 years .....	508	366	72.0	341	24	8.7	142	4	-	56	83
60 to 64 years .....	469	256	54.7	248	10	4.0	212	1	-	40	171
65 years and over .....	1,039	132	12.7	128	4	3.2	907	21	4	91	792
65 to 69 years .....	373	70	18.8	69	1	( <sup>1</sup> )	303	7	4	25	266
70 to 74 years .....	284	28	9.9	25	3	( <sup>1</sup> )	256	11	-	27	217
75 years and over .....	382	34	8.8	34	-	( <sup>1</sup> )	348	3	-	38	308
<b>Women</b>											
16 years and over .....	11,905	6,925	58.2	6,111	814	11.8	4,979	2,797	334	405	1,444
16 to 19 years .....	1,056	501	47.4	316	185	37.0	555	155	117	2	281
18 to 17 years .....	514	175	34.1	110	65	37.3	339	61	73	-	205
18 to 19 years .....	542	326	60.1	206	120	36.8	216	94	44	2	76
20 to 24 years .....	1,332	777	58.3	622	155	19.9	555	323	102	9	122
25 to 54 years .....	6,808	4,975	73.1	4,528	447	9.0	1,834	1,312	113	135	273
25 to 34 years .....	2,929	2,120	72.4	1,857	264	12.4	808	606	62	18	122
25 to 29 years .....	1,444	1,024	70.9	860	163	15.9	421	307	32	12	70
30 to 34 years .....	1,485	1,097	73.9	996	101	9.2	388	299	30	8	53
35 to 44 years .....	2,374	1,808	76.1	1,680	127	7.0	566	414	35	47	70
35 to 39 years .....	1,300	993	76.4	920	74	7.4	306	224	28	11	43
40 to 44 years .....	1,074	814	75.8	761	53	6.5	280	190	7	38	27
45 to 54 years .....	1,506	1,047	69.5	991	58	5.4	459	292	18	70	80
45 to 49 years .....	797	805	75.9	579	27	4.4	192	125	14	25	27
50 to 54 years .....	709	442	62.3	412	30	6.7	267	187	2	45	53
55 to 64 years .....	1,182	539	45.7	520	20	3.7	642	391	-	83	167
55 to 59 years .....	612	342	55.9	330	12	3.6	270	165	-	51	53
60 to 64 years .....	570	197	34.6	190	8	3.9	373	226	-	32	114
65 years and over .....	1,527	133	8.7	128	7	5.4	1,394	616	3	175	600
65 to 69 years .....	520	95	18.3	90	5	5.4	425	220	-	31	174
70 to 74 years .....	409	31	7.6	31	-	( <sup>1</sup> )	378	166	-	45	167
75 years and over .....	598	7	1.1	5	2	( <sup>1</sup> )	591	230	3	99	259

<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	July 1991								
	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
18 years and over .....	28,281	18,282	64.8	18,275	294	15,982	2,008	11.0	9,999
18 to 19 years .....	2,660	1,308	49.2	898	30	867	412	31.5	1,352
18 to 17 years .....	1,338	532	39.8	354	18	336	178	33.5	806
18 to 19 years .....	1,322	778	58.7	542	12	530	234	30.1	546
20 to 24 years .....	3,174	2,185	68.8	1,795	33	1,761	390	17.9	989
25 to 54 years .....	16,487	12,934	78.5	11,813	182	11,630	1,121	8.7	3,534
25 to 34 years .....	7,021	5,485	78.1	4,681	91	4,789	605	11.0	1,536
25 to 29 years .....	3,420	2,646	77.4	2,310	38	2,274	336	12.7	774
30 to 34 years .....	3,602	2,839	78.8	2,570	55	2,515	269	9.5	782
35 to 44 years .....	5,777	4,668	80.8	4,328	50	4,278	343	7.3	1,109
35 to 39 years .....	3,168	2,568	80.8	2,350	28	2,322	218	8.5	620
40 to 44 years .....	2,589	2,100	81.1	1,978	22	1,954	125	5.9	469
45 to 54 years .....	3,669	2,780	75.8	2,806	41	2,565	174	8.2	869
45 to 49 years .....	2,012	1,615	80.3	1,509	28	1,481	106	6.6	397
50 to 54 years .....	1,656	1,164	70.3	1,097	13	1,084	67	5.8	492
55 to 64 years .....	2,802	1,511	53.9	1,447	26	1,420	65	4.3	1,291
55 to 59 years .....	1,448	906	62.5	860	11	849	46	5.0	542
60 to 64 years .....	1,354	606	44.7	587	15	571	19	3.2	748
65 years and over .....	3,176	344	10.8	325	22	303	19	5.4	2,834
65 to 69 years .....	1,136	211	18.5	197	9	188	13	6.3	925
70 to 74 years .....	853	81	9.5	77	5	72	4	4.7	772
75 years and over .....	1,190	52	4.4	51	6	43	2	( <sup>1</sup> )	1,137
<b>Men</b>									
18 years and over .....	12,976	9,373	72.8	8,320	258	6,062	1,053	11.2	3,503
18 to 19 years .....	1,338	671	50.2	475	29	446	196	29.2	665
18 to 17 years .....	684	298	43.8	199	16	183	99	33.2	366
18 to 19 years .....	652	373	57.1	278	13	263	97	25.9	280
20 to 24 years .....	1,505	1,209	80.3	991	28	963	216	18.0	296
25 to 54 years .....	7,474	6,489	86.8	5,898	155	5,743	591	9.1	986
25 to 34 years .....	3,202	2,782	86.9	2,487	76	2,411	295	10.8	421
25 to 29 years .....	1,552	1,346	86.7	1,197	36	1,161	149	11.1	206
30 to 34 years .....	1,650	1,436	87.0	1,290	40	1,249	146	10.1	215
35 to 44 years .....	2,621	2,322	88.6	2,129	43	2,086	193	8.3	300
35 to 39 years .....	1,447	1,283	88.7	1,152	21	1,131	131	10.2	164
40 to 44 years .....	1,174	1,039	88.5	977	22	955	61	5.9	138
45 to 54 years .....	1,651	1,385	83.9	1,282	36	1,246	104	7.5	295
45 to 49 years .....	894	782	87.5	706	23	683	78	9.8	112
50 to 54 years .....	758	603	79.7	578	13	562	27	4.5	153
55 to 64 years .....	1,269	833	65.6	792	26	766	41	4.9	436
55 to 59 years .....	650	481	74.1	451	11	440	30	6.2	169
60 to 64 years .....	620	352	56.8	341	14	326	12	3.3	268
65 years and over .....	1,291	172	13.3	164	20	144	6	4.5	1,120
65 to 69 years .....	478	90	16.8	85	9	76	5	5.3	366
70 to 74 years .....	348	42	12.1	39	3	36	3	( <sup>1</sup> )	306
75 years and over .....	465	40	8.5	40	8	32	-	( <sup>1</sup> )	426
<b>Women</b>									
18 years and over .....	15,405	6,909	57.8	7,956	35	7,920	953	10.7	6,498
16 to 19 years .....	1,324	638	48.2	421	1	421	216	33.9	686
16 to 17 years .....	654	234	35.8	155	1	154	79	33.9	420
18 to 19 years .....	669	403	60.3	266	-	267	137	34.0	268
20 to 24 years .....	1,669	976	58.5	803	5	799	172	17.7	693
25 to 54 years .....	6,993	6,445	71.7	5,915	27	5,888	530	8.2	2,548
25 to 34 years .....	3,619	2,704	70.8	2,394	15	2,376	310	11.5	1,115
25 to 29 years .....	1,868	1,300	69.6	1,113	1	1,112	187	14.4	588
30 to 34 years .....	1,951	1,404	71.9	1,280	14	1,266	124	6.8	547
35 to 44 years .....	3,156	2,347	74.4	2,197	7	2,190	150	6.4	809
35 to 39 years .....	1,741	1,285	73.8	1,198	7	1,191	67	6.8	456
40 to 44 years .....	1,415	1,062	75.0	998	-	998	83	5.9	354
45 to 54 years .....	2,018	1,394	69.1	1,324	5	1,319	70	5.0	824
45 to 49 years .....	1,118	833	74.5	603	5	796	30	3.8	285
50 to 54 years .....	900	561	62.3	521	-	522	40	7.1	339
55 to 64 years .....	1,533	678	44.2	655	1	654	24	3.5	855
55 to 59 years .....	799	425	53.2	409	-	409	16	3.8	374
60 to 64 years .....	734	254	34.5	248	1	245	6	3.0	481
65 years and over .....	1,868	172	9.1	161	2	159	11	6.3	1,714
65 to 69 years .....	656	121	18.3	112	-	112	9	7.1	537
70 to 74 years .....	504	39	7.7	38	2	36	1	( <sup>1</sup> )	465
75 years and over .....	724	13	1.7	11	-	11	2	( <sup>1</sup> )	712

<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	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
<b>TOTAL</b>								
Civilian noninstitutional population .....	188,136	189,839	82,790	83,865	91,581	92,654	13,764	13,320
Civilian labor force .....	126,900	127,327	64,883	65,350	52,853	53,381	9,183	8,595
Percent of population .....	67.5	67.1	78.3	77.9	57.7	57.6	66.7	64.5
Employed .....	119,954	118,751	61,951	61,439	50,210	50,326	7,794	6,985
Agriculture .....	3,573	3,740	2,486	2,612	676	692	411	436
Nonagricultural industries .....	116,381	115,010	59,464	58,827	49,533	49,635	7,383	6,549
Unemployed .....	6,945	8,576	2,912	3,911	2,644	3,055	1,389	1,611
Unemployment rate .....	5.5	6.7	4.5	6.0	5.0	5.7	15.1	18.7
Not in labor force .....	61,237	62,513	17,928	18,515	38,728	39,273	4,581	4,725
<b>White</b>								
Civilian noninstitutional population .....	160,468	161,558	71,532	72,325	77,866	78,573	11,071	10,661
Civilian labor force .....	108,930	109,045	56,338	56,647	44,751	45,110	7,841	7,287
Percent of population .....	67.9	67.5	78.8	78.3	57.5	57.4	70.8	68.4
Employed .....	103,914	102,475	54,219	53,595	42,844	42,792	6,852	6,089
Agriculture .....	3,313	3,447	2,288	2,383	640	657	385	407
Nonagricultural industries .....	100,601	99,029	51,930	51,212	42,204	42,135	6,467	5,682
Unemployed .....	5,016	6,570	2,119	3,053	1,907	2,318	989	1,199
Unemployment rate .....	4.6	6.0	3.8	5.4	4.3	5.1	12.6	16.4
Not in labor force .....	51,539	52,513	15,194	15,677	33,115	33,483	3,230	3,373
<b>Black</b>								
Civilian noninstitutional population .....	21,318	21,631	8,519	8,684	10,655	10,849	2,144	2,098
Civilian labor force .....	13,799	13,903	6,367	6,449	6,342	6,424	1,090	1,029
Percent of population .....	64.7	64.3	74.7	74.3	59.5	59.2	50.8	49.1
Employed .....	12,168	12,192	5,707	5,717	5,724	5,796	738	678
Agriculture .....	178	215	134	168	26	27	18	19
Nonagricultural industries .....	11,991	11,977	5,573	5,549	5,698	5,769	720	659
Unemployed .....	1,631	1,711	660	732	619	629	352	351
Unemployment rate .....	11.8	12.3	10.4	11.3	9.8	9.8	32.3	34.1
Not in labor force .....	7,519	7,728	2,152	2,235	4,312	4,425	1,054	1,068

**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	July 1991									
	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 .....	4,146	2,345	56.6	2,048	826	1,223	297	91	206	12.7
16 to 19 years .....	2,008	971	48.4	796	245	552	175	43	131	18.0
20 to 24 years .....	2,138	1,374	64.3	1,252	581	671	122	47	75	8.9
High school .....	1,208	470	38.9	333	74	260	136	42	94	29.0
College .....	2,938	1,876	63.8	1,715	752	963	161	49	112	8.6
Full-time students .....	1,898	1,038	54.7	928	393	535	110	25	85	10.6
Part-time students .....	1,040	838	80.6	787	359	428	51	24	27	6.1
Men, 16 to 24 years .....	2,016	1,152	57.2	1,008	452	555	145	53	92	12.6
16 to 19 years .....	994	474	47.7	373	129	245	100	28	72	21.1
20 to 24 years .....	1,022	679	66.4	634	324	310	45	25	20	6.6
High school .....	667	290	43.5	199	49	150	92	31	61	31.6
College .....	1,349	862	63.9	809	404	405	53	22	31	6.2
Full-time students .....	900	492	54.7	456	221	235	36	12	24	7.4
Part-time students .....	448	370	82.5	353	183	170	17	10	7	4.6
Women, 16 to 24 years .....	2,130	1,193	56.0	1,041	373	667	152	38	114	12.7
16 to 19 years .....	1,014	498	49.1	423	118	307	75	15	59	15.0
20 to 24 years .....	1,116	695	62.3	616	257	361	77	23	55	11.1
High school .....	541	179	33.2	135	25	110	44	11	33	24.7
College .....	1,590	1,014	63.8	906	349	557	108	27	81	10.6
Full-time students .....	998	545	54.7	472	172	300	74	13	61	13.5
Part-time students .....	592	466	79.1	434	177	257	34	14	20	7.2
<b>White</b>										
Total, 16 to 24 years .....	3,195	1,964	61.5	1,769	721	1,048	195	49	146	9.9
16 to 19 years .....	1,487	805	54.1	684	217	467	121	24	96	15.0
20 to 24 years .....	1,707	1,159	67.9	1,084	504	580	74	24	50	6.4
Men .....	1,555	955	61.4	857	393	465	97	25	72	10.2
Women .....	1,640	1,009	61.5	911	328	583	98	24	74	9.7
High school .....	821	364	44.3	277	55	222	87	17	70	23.9
College .....	2,373	1,600	67.4	1,492	666	826	108	31	77	8.8
Full-time students .....	1,482	864	58.3	805	346	459	79	19	60	9.0
Part-time students .....	861	716	83.2	667	319	367	29	12	16	4.0
<b>Black</b>										
Total, 16 to 24 years .....	699	284	40.6	194	83	111	90	39	51	31.7
16 to 19 years .....	405	124	30.6	77	27	51	46	16	30	37.5
20 to 24 years .....	294	160	54.4	117	56	61	44	23	20	27.2
Men .....	321	137	42.6	96	45	51	41	25	16	30.0
Women .....	378	147	39.0	98	38	60	49	14	35	33.2
High school .....	322	86	26.8	41	19	22	45	23	22	52.6
College .....	376	198	52.5	153	64	89	45	17	28	22.6
Full-time students .....	274	117	42.7	90	39	51	27	6	21	22.9
Part-time students .....	102	81	78.8	63	25	38	18	10	7	22.0
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	473	203	42.9	168	54	114	35	13	22	17.2
16 to 19 years .....	288	92	32.0	88	15	54	24	7	17	25.6
20 to 24 years .....	185	111	59.9	100	39	81	11	6	5	10.2
Men .....	250	129	51.6	109	39	71	19	8	11	15.0
Women .....	223	74	33.2	59	15	43	16	5	11	20.9
High school .....	231	72	31.0	53	8	45	19	6	12	26.0
College .....	242	131	54.3	115	46	69	16	7	10	12.3
Full-time students .....	148	82	55.4	54	15	39	8	4	4	( <sup>2</sup> )
Part-time students .....	93	69	74.4	61	31	30	9	3	6	( <sup>2</sup> )

See footnotes at end of table.



**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	July 1991									
	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 .....	27,026	20,630	76.3	17,774	12,750	5,024	2,856	2,211	644	13.6
16 to 19 years .....	11,312	7,624	67.4	6,189	3,081	3,107	1,436	950	485	18.8
20 to 24 years .....	15,714	13,005	82.8	11,585	9,669	1,917	1,420	1,261	159	10.9
Less than 4 years of high school .....	9,540	5,878	59.5	4,410	2,341	2,069	1,268	887	401	22.3
4 years of high school .....	10,206	8,403	82.3	7,340	5,873	1,667	1,064	894	169	12.7
1 to 3 years of college .....	5,420	4,842	89.3	4,468	3,380	1,088	374	303	71	7.7
4 years of college or more .....	1,859	1,706	91.7	1,555	1,355	200	150	147	3	8.8
Men, 16 to 24 years .....	13,427	11,142	83.0	9,572	7,289	2,283	1,570	1,263	307	14.1
16 to 19 years .....	5,733	4,063	70.9	3,312	1,823	1,489	751	512	239	18.5
20 to 24 years .....	7,694	7,079	92.0	6,260	5,466	794	819	751	67	11.6
Less than 4 years of high school .....	5,013	3,447	68.8	2,713	1,624	1,089	734	534	200	21.3
4 years of high school .....	4,998	4,527	90.6	3,955	3,264	691	571	501	71	12.6
1 to 3 years of college .....	2,601	2,403	92.4	2,200	1,770	430	203	166	37	8.4
4 years of college or more .....	815	766	93.9	704	631	73	62	62	-	8.1
Women, 16 to 24 years .....	13,599	9,488	69.8	8,202	5,461	2,741	1,266	948	338	13.6
16 to 19 years .....	5,579	3,561	63.8	2,876	1,258	1,618	685	439	246	19.2
20 to 24 years .....	8,020	5,927	73.9	5,325	4,202	1,123	601	510	92	10.1
Less than 4 years of high school .....	4,527	2,231	49.3	1,697	717	980	534	333	201	23.9
4 years of high school .....	5,209	3,877	74.4	3,385	2,409	976	492	394	98	12.7
1 to 3 years of college .....	2,819	2,440	86.5	2,269	1,610	658	171	137	34	7.0
4 years of college or more .....	1,044	940	90.1	852	724	127	88	84	4	9.4
<b>White</b>										
Total, 16 to 24 years .....	22,144	17,518	79.1	15,363	11,092	4,271	2,155	1,856	499	12.3
16 to 19 years .....	9,174	6,482	70.7	5,404	2,737	2,668	1,078	700	378	16.6
20 to 24 years .....	12,971	11,036	85.1	9,958	8,355	1,603	1,077	956	121	9.8
Men .....	11,047	9,460	85.6	8,256	6,361	1,895	1,204	969	235	12.7
Women .....	11,097	8,058	72.8	7,106	4,730	2,376	952	687	265	11.8
Less than 4 years of high school .....	7,565	4,787	63.3	3,813	2,037	1,778	974	653	321	20.3
4 years of high school .....	8,243	6,949	84.3	6,204	4,855	1,349	745	620	124	10.7
1 to 3 years of college .....	4,698	4,264	90.7	3,958	2,988	969	307	253	54	7.2
4 years of college or more .....	1,638	1,518	92.7	1,389	1,212	177	129	129	-	8.5
<b>Black</b>										
Total, 16 to 24 years .....	3,669	2,459	63.6	1,840	1,261	580	619	498	120	25.2
16 to 19 years .....	1,693	905	53.5	601	269	332	304	216	89	33.6
20 to 24 years .....	2,176	1,554	71.4	1,239	992	248	314	283	32	20.2
Men .....	1,859	1,328	71.5	1,001	697	304	327	266	61	24.7
Women .....	2,010	1,131	56.3	840	564	276	291	232	59	25.7
Less than 4 years of high school .....	1,597	725	45.4	464	236	229	261	197	64	36.0
4 years of high school .....	1,637	1,210	73.9	918	663	255	292	251	41	24.1
1 to 3 years of college .....	524	426	81.3	373	285	88	53	41	12	12.5
4 years of college or more .....	111	98	88.6	86	77	9	13	9	3	12.9
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,969	2,026	68.2	1,694	1,334	360	332	269	63	16.4
16 to 19 years .....	1,172	662	56.5	496	306	190	167	125	42	25.2
20 to 24 years .....	1,797	1,364	75.9	1,198	1,028	170	166	145	21	12.1
Men .....	1,530	1,250	81.7	1,048	864	184	203	166	37	16.2
Women .....	1,439	776	53.9	646	470	176	130	103	26	16.7
Less than 4 years of high school .....	1,756	1,065	60.6	852	649	203	213	169	45	20.0
4 years of high school .....	897	688	76.7	609	503	106	79	66	13	11.5
1 to 3 years of college .....	263	225	85.6	192	147	44	34	29	5	15.0
4 years of college or more .....	52	47	( <sup>2</sup> )	41	35	6	6	6	-	( <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							
	July 1990	July 1991	Total		Employed		Unemployed			
			July 1990	July 1991	July 1990	July 1991	Number		Percent of labor force	
							July 1990	July 1991	July 1990	July 1991
<b>VIETNAM-ERA VETERANS</b>										
Total, 35 years and over .....	7,646	7,793	6,920	7,073	6,680	6,755	241	318	3.5	4.5
35 to 49 years .....	6,518	6,472	6,123	6,104	5,908	5,817	215	286	3.5	4.7
35 to 39 years .....	1,403	1,147	1,305	1,069	1,246	980	59	89	4.5	8.4
40 to 44 years .....	3,300	3,108	3,130	2,933	3,023	2,814	107	119	3.4	4.1
45 to 49 years .....	1,815	2,217	1,688	2,102	1,639	2,024	49	78	2.9	3.7
50 years and over .....	1,128	1,321	798	969	772	938	26	32	3.2	3.3
<b>NONVETERANS</b>										
Total, 35 to 49 years .....	17,290	18,465	16,188	17,275	15,590	16,400	598	876	3.7	5.1
35 to 39 years .....	7,972	8,422	7,581	7,961	7,320	7,562	262	399	3.5	5.0
40 to 44 years .....	5,103	5,887	4,752	5,519	4,564	5,255	188	264	4.0	4.8
45 to 49 years .....	4,215	4,155	3,855	3,795	3,707	3,583	148	212	3.8	5.6

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	July 1991							
	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 .....	99,302	97,278	2,024	19,448	14,926	4,523	7,203	1,373
16 to 19 years .....	3,326	3,148	178	3,659	2,510	1,149	994	617
16 to 17 years .....	896	846	51	1,929	1,386	543	334	441
18 to 19 years .....	2,429	2,302	127	1,730	1,124	606	660	175
20 years and over .....	95,976	94,130	1,846	15,789	12,416	3,373	6,210	756
20 to 24 years .....	10,250	9,935	315	2,588	1,749	838	1,308	234
25 years and over .....	85,726	84,195	1,531	13,202	10,667	2,535	4,901	522
25 to 54 years .....	74,861	73,506	1,355	9,436	7,310	2,126	4,431	409
55 years and over .....	10,865	10,689	176	3,766	3,357	409	470	113
<b>Men, 16 years and over</b> .....	58,828	57,626	1,202	6,296	4,280	2,017	4,208	554
16 to 19 years .....	1,951	1,822	129	1,734	1,165	569	540	312
20 years and over .....	56,877	55,804	1,073	4,562	3,115	1,448	3,668	243
20 to 24 years .....	5,790	5,605	185	1,104	672	432	776	87
25 years and over .....	51,087	50,199	888	3,458	2,442	1,016	2,892	155
25 to 54 years .....	44,269	43,477	792	1,925	1,098	827	2,587	101
55 years and over .....	6,818	6,722	96	1,533	1,344	189	306	54
<b>Women, 16 years and over</b> .....	40,474	39,652	822	13,152	10,646	2,506	2,996	818
16 to 19 years .....	1,374	1,326	48	1,925	1,345	580	454	305
20 years and over .....	39,099	38,326	773	11,227	9,301	1,926	2,542	513
20 to 24 years .....	4,460	4,330	130	1,483	1,077	406	532	146
25 years and over .....	34,640	33,996	643	9,744	8,225	1,519	2,009	367
25 to 54 years .....	30,592	30,029	563	7,510	6,212	1,299	1,845	308
55 years and over .....	4,047	3,967	80	2,233	2,013	221	165	59
<b>White</b>								
<b>Men, 16 years and over</b> .....	51,492	50,493	999	5,313	3,692	1,621	3,285	424
16 to 19 years .....	1,744	1,632	112	1,466	990	476	411	245
20 years and over .....	49,747	48,861	886	3,847	2,702	1,145	2,874	179
20 to 24 years .....	5,010	4,863	147	894	552	342	583	62
25 years and over .....	44,738	43,998	740	2,954	2,150	804	2,291	117
25 to 54 years .....	38,721	38,065	655	1,576	920	656	2,028	69
55 years and over .....	6,017	5,933	84	1,378	1,230	148	262	48
<b>Women, 16 years and over</b> .....	34,027	33,364	664	11,643	9,604	2,039	2,224	637
16 to 19 years .....	1,209	1,162	47	1,669	1,190	479	313	230
20 years and over .....	32,818	32,202	616	9,974	8,414	1,560	1,911	407
20 to 24 years .....	3,849	3,750	99	1,290	937	354	397	109
25 years and over .....	28,969	28,452	517	8,684	7,477	1,206	1,513	298
25 to 54 years .....	25,514	25,062	451	6,674	5,642	1,032	1,376	247
55 years and over .....	3,455	3,389	66	2,010	1,835	174	137	51
<b>Black</b>								
<b>Men, 16 years and over</b> .....	5,336	5,183	152	744	413	331	783	114
16 to 19 years .....	163	148	14	200	129	71	110	56
20 years and over .....	5,173	5,035	138	544	284	261	674	58
20 to 24 years .....	579	551	28	155	75	80	182	21
25 years and over .....	4,594	4,484	110	389	209	180	492	37
25 to 54 years .....	4,010	3,905	105	258	117	141	459	31
55 years and over .....	584	579	5	131	92	39	33	6
<b>Women, 16 years and over</b> .....	5,009	4,869	140	1,102	715	388	667	147
16 to 19 years .....	133	132	1	183	103	80	122	63
20 years and over .....	4,876	4,737	139	920	612	308	545	84
20 to 24 years .....	469	439	30	153	111	43	124	31
25 years and over .....	4,407	4,298	109	766	501	265	421	53
25 to 54 years .....	3,940	3,845	95	587	357	231	401	46
55 years and over .....	467	453	13	179	145	34	20	7

<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	July 1991									
	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> .....	101,860	67.6	94,978	6,882	6.8	48,763	21,850	2,298	2,664	21,951
Husbands .....	40,011	77.5	38,518	1,493	3.7	11,630	212	138	958	10,323
With employed wife .....	26,132	91.4	25,318	814	3.1	2,444	92	78	368	1,905
With unemployed wife .....	1,232	93.9	1,062	170	13.8	80	1	2	18	59
With wife not in labor force .....	12,646	58.1	12,137	509	4.0	9,107	119	58	572	8,359
Wives .....	29,888	57.9	28,576	1,312	4.4	21,753	16,484	256	446	4,568
With employed husband .....	26,381	68.5	25,318	1,062	4.0	12,137	10,411	214	168	1,344
With unemployed husband .....	984	65.9	814	170	17.3	509	431	14	14	49
With husband not in labor force .....	2,523	21.7	2,444	80	3.2	9,107	5,641	27	263	3,175
Relatives in married-couple families .....	14,295	71.4	12,463	1,832	12.8	5,716	877	1,081	397	3,361
16 to 19 years .....	5,707	66.8	4,813	894	15.7	2,833	296	584	28	1,925
20 to 24 years .....	5,135	83.3	4,561	574	11.2	1,030	159	395	30	446
25 years and over .....	3,453	65.1	3,089	364	10.5	1,853	422	102	339	990
Women who maintain families .....	7,102	61.3	6,483	619	8.7	4,480	2,936	116	279	1,149
Relatives in families maintained by women .....	6,177	63.7	5,066	1,110	18.0	3,514	929	568	367	1,650
16 to 19 years .....	1,627	56.4	1,172	454	27.9	1,258	226	339	18	674
20 to 24 years .....	1,691	75.4	1,398	293	17.3	551	180	139	24	208
25 years and over .....	2,859	62.6	2,496	363	12.7	1,705	523	90	325	768
Men who maintain families .....	2,424	79.0	2,210	213	8.8	646	44	25	115	462
Relatives in families maintained by men .....	1,965	65.7	1,662	303	15.4	1,024	368	114	102	440
16 to 19 years .....	370	66.9	278	92	25.0	183	38	55	-	90
20 to 24 years .....	504	81.7	454	49	9.8	113	41	33	7	33
25 years and over .....	1,092	60.0	930	162	14.8	728	289	26	95	317

<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	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
Total, 16 years and over .....	3,650	4,762	5.2	6.8	3,296	3,814	5.8	6.6
Married, spouse present .....	1,261	1,644	3.0	3.9	1,150	1,397	3.8	4.5
Widowed, divorced, or separated .....	452	657	5.9	8.8	714	737	6.2	6.4
Single (never married) .....	1,937	2,461	9.7	12.2	1,432	1,680	9.4	11.1
White, 16 years and over .....	2,655	3,709	4.4	6.1	2,361	2,861	4.9	5.9
Married, spouse present .....	1,009	1,433	2.7	3.8	963	1,193	3.6	4.4
Widowed, divorced, or separated .....	341	486	5.4	7.9	509	562	5.5	6.1
Single (never married) .....	1,306	1,790	7.8	10.7	889	1,107	7.3	9.3
Black, 16 years and over .....	845	897	12.2	12.9	786	814	11.5	11.8
Married, spouse present .....	199	163	6.2	5.1	126	157	5.3	6.6
Widowed, divorced, or separated .....	91	146	8.6	14.1	179	148	9.4	7.8
Single (never married) .....	556	589	20.8	21.5	480	509	18.6	19.3
Total, 25 years and over .....	2,307	3,048	4.0	5.3	2,066	2,376	4.5	5.1
Married, spouse present .....	1,166	1,526	2.9	3.7	988	1,211	3.5	4.2
Widowed, divorced, or separated .....	436	621	5.9	8.6	638	691	5.8	6.2
Single (never married) .....	705	901	7.6	9.4	440	474	6.6	7.1
White, 25 years and over .....	1,709	2,408	3.4	4.8	1,525	1,812	3.9	4.6
Married, spouse present .....	938	1,330	2.6	3.7	832	1,039	3.3	4.0
Widowed, divorced, or separated .....	326	456	5.3	7.6	458	522	5.2	5.9
Single (never married) .....	445	622	5.9	8.0	235	251	4.8	5.2
Black, 25 years and over .....	495	529	9.1	9.6	445	474	8.1	8.4
Married, spouse present .....	176	149	5.8	4.8	103	129	4.7	5.7
Widowed, divorced, or separated .....	91	140	8.7	13.7	156	142	8.4	7.6
Single (never married) .....	228	240	16.7	17.1	186	203	12.8	13.3

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
Total, 16 years and over .....	6,945	8,576	5.5	6.7	5.2	6.8	5.8	6.6
Managerial and professional specialty .....	735	989	2.4	3.1	2.0	2.9	2.8	3.5
Executive, administrative, and managerial .....	345	546	2.2	3.5	1.9	3.2	2.8	3.8
Professional specialty .....	390	443	2.5	2.8	2.1	2.4	2.9	3.1
Technical, sales, and administrative support .....	1,599	1,896	4.2	5.0	3.6	4.5	4.5	5.2
Technicians and related support .....	118	127	2.9	3.2	3.2	4.2	2.7	2.2
Sales occupations .....	663	882	4.4	5.9	3.2	4.4	5.6	7.4
Administrative support, including clerical .....	817	887	4.2	4.7	4.7	5.1	4.1	4.6
Service occupations .....	1,136	1,272	6.5	7.1	6.7	7.7	6.3	6.7
Private household .....	50	47	5.6	4.7	( <sup>1</sup> )	( <sup>1</sup> )	5.9	4.7
Protective service .....	63	88	2.9	3.7	2.9	3.8	2.9	3.5
Service, except private household and protective .....	1,023	1,137	7.1	7.8	8.1	9.1	6.5	7.0
Precision production, craft, and repair .....	727	1,050	4.9	7.2	4.8	7.3	5.6	6.6
Mechanics and repairers .....	173	244	3.6	5.2	3.5	5.3	5.8	1.7
Construction trades .....	369	576	6.5	10.3	6.5	10.3	7.6	10.8
Other precision production, craft, and repair .....	186	230	4.3	5.5	3.9	5.0	5.3	7.0
Operators, fabricators, and laborers .....	1,487	1,944	7.6	9.9	7.1	9.5	8.8	11.2
Machine operators, assemblers, and inspectors .....	638	814	7.2	9.4	6.5	8.3	8.1	11.0
Transportation and material moving occupations .....	303	430	5.9	8.2	5.7	8.1	8.0	9.0
Handlers, equipment cleaners, helpers, and laborers .....	546	701	9.7	12.3	9.3	12.2	11.5	12.7
Construction laborers .....	115	168	11.2	16.2	11.4	16.3	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	432	533	9.4	11.4	8.7	11.1	11.8	12.7
Farming, forestry, and fishing .....	241	245	5.6	5.4	4.9	5.4	9.3	5.7
No previous work experience .....	970	1,152	-	-	-	-	-	-
16 to 19 years .....	717	788	-	-	-	-	-	-
20 to 24 years .....	125	227	-	-	-	-	-	-
25 years and over .....	129	137	-	-	-	-	-	-

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-13. Unemployed persons by industry and sex**

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
Total, 16 years and over .....	6,945	8,576	5.5	6.7	5.2	6.8	5.8	6.6
Nonagricultural private wage and salary workers .....	5,059	6,417	5.3	6.8	5.2	7.1	5.4	6.4
Mining .....	28	61	3.8	7.6	3.9	8.9	3.6	1.0
Construction .....	535	811	8.0	12.9	8.3	13.5	5.2	6.6
Manufacturing .....	1,196	1,439	5.4	6.7	4.7	5.9	6.8	8.3
Durable goods .....	721	865	5.5	6.9	5.0	6.2	6.8	8.5
Lumber and wood products .....	43	62	5.5	8.7	4.5	9.0	11.3	7.3
Furniture and fixtures .....	47	86	6.3	12.9	6.7	13.2	5.6	11.9
Stone, clay, and glass products .....	22	36	3.5	6.1	3.2	6.1	4.2	6.2
Primary metal industries .....	39	64	4.4	7.6	4.1	8.1	6.2	4.8
Fabricated metal products .....	105	97	7.6	7.8	7.0	5.8	10.1	15.1
Machinery, except electrical .....	112	133	4.4	5.0	4.2	4.5	5.0	6.7
Electrical machinery, equipment, and supplies .....	105	135	4.8	6.7	4.2	6.5	5.9	6.9
Transportation equipment .....	164	171	6.2	7.0	5.8	6.3	7.7	9.3
Automobiles .....	108	82	8.7	7.0	8.5	6.4	9.2	9.2
Other transportation equipment .....	56	89	4.0	6.9	3.3	6.2	6.3	9.4
Professional and photographic equipment .....	36	34	4.8	4.0	3.6	2.1	6.3	6.9
Other durable goods industries .....	48	47	8.6	8.5	7.3	4.8	11.3	13.4
Nondurable goods .....	475	574	5.2	6.4	4.1	5.2	6.7	8.1
Food and kindred products .....	132	144	6.4	7.5	5.0	6.4	8.8	9.5
Textile mill products .....	42	34	5.7	4.7	5.0	3.8	6.4	5.7
Apparel and other textile products .....	92	128	7.8	11.0	6.9	10.0	8.1	11.3
Paper and allied products .....	39	26	5.1	3.5	5.4	3.3	4.0	3.9
Printing and publishing .....	68	112	3.7	6.2	2.6	4.9	5.0	7.8
Chemicals and allied products .....	46	67	3.3	4.7	2.5	4.5	5.1	5.1
Rubber and miscellaneous plastics products .....	35	42	4.4	5.4	4.6	4.7	4.1	6.8
Other nondurable goods industries .....	22	22	5.8	5.3	2.4	4.9	10.9	4.3
Transportation and public utilities .....	239	342	3.7	5.1	3.7	5.0	3.6	5.3
Transportation .....	195	245	5.1	6.3	4.9	5.9	5.7	7.5
Communications and other public utilities .....	43	97	1.6	3.4	1.7	3.4	1.5	3.4
Wholesale and retail trade .....	1,438	1,899	6.0	7.9	5.5	7.5	6.5	8.3
Wholesale trade .....	193	270	4.3	5.8	4.0	5.5	5.1	6.6
Retail trade .....	1,245	1,628	6.4	8.4	6.0	8.2	6.7	8.5
Finance, insurance, and real estate .....	209	297	2.8	4.0	1.8	3.5	3.5	4.3
Service industries .....	1,415	1,568	5.1	5.6	5.5	6.5	4.8	5.0
Professional services .....	486	603	3.2	3.9	2.8	4.2	3.3	3.7
Other service industries .....	929	965	7.5	7.7	7.5	8.2	7.5	7.3
Agricultural wage and salary workers .....	173	199	8.2	9.3	7.1	9.4	12.0	8.6
Government, self-employed, and unpaid family workers .....	743	807	2.6	2.8	2.4	2.5	2.8	3.1
No previous work experience .....	970	1,152	-	-	-	-	-	-

**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	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,945	8,576	2,912	3,911	2,644	3,055	1,389	1,611	5,016	6,570	1,631	1,711
Job losers .....	2,968	4,339	1,680	2,659	1,102	1,403	186	277	2,230	3,406	620	800
On layoff .....	864	1,048	455	605	356	384	53	58	694	858	136	173
Other job losers .....	2,104	3,291	1,225	2,053	746	1,019	133	219	1,536	2,547	484	627
Job leavers .....	1,071	1,041	460	446	419	408	192	187	847	865	191	148
Reentrants .....	2,013	2,143	687	692	970	1,033	356	418	1,410	1,587	498	468
New entrants .....	893	1,053	85	114	153	210	655	729	528	712	322	296
<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 .....	42.7	50.6	57.7	68.0	41.7	45.9	13.4	17.2	44.5	51.8	38.0	46.7
On layoff .....	12.4	12.2	15.6	15.5	13.5	12.6	3.8	3.6	13.8	13.1	8.3	10.1
Other job losers .....	30.3	38.4	42.1	52.5	28.2	33.4	9.6	13.6	30.6	38.8	29.7	36.6
Job leavers .....	15.4	12.1	15.8	11.4	15.9	13.4	13.8	11.6	16.9	13.2	11.7	8.6
Reentrants .....	29.0	25.0	23.6	17.7	36.7	33.8	25.6	26.0	28.1	24.2	30.5	27.4
New entrants .....	12.9	12.3	2.9	2.9	5.8	6.9	47.1	45.2	10.5	10.8	19.7	17.3
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.3	3.4	2.6	4.1	2.1	2.6	2.0	3.2	2.0	3.1	4.5	5.8
Job leavers .....	.8	.8	.7	.7	.8	.8	2.1	2.2	.8	.8	1.4	1.1
Reentrants .....	1.6	1.7	1.1	1.1	1.8	1.9	3.9	4.9	1.3	1.5	3.6	3.4
New entrants .....	.7	.8	.1	.2	.3	.4	7.1	8.5	.5	.7	2.3	2.1



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

(Percent distribution)

Reason, sex, and age	July 1991						
	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 .....	8,576	100.0	41.1	33.3	25.6	12.5	13.1
Job losers .....	4,339	100.0	32.1	31.8	36.1	18.5	17.6
On layoff .....	1,048	100.0	47.6	29.4	23.0	15.8	7.2
Other job losers .....	3,291	100.0	27.1	32.6	40.3	19.4	20.9
Job leavers .....	1,041	100.0	52.0	28.9	19.1	7.2	12.0
Reentrants .....	2,143	100.0	48.0	36.2	15.8	7.3	8.4
New entrants .....	1,053	100.0	53.6	37.8	8.6	3.7	4.9
Men, 20 years and over .....	3,911	100.0	34.2	30.7	35.0	16.7	18.3
Job losers .....	2,659	100.0	29.2	30.8	40.0	20.2	19.9
On layoff .....	605	100.0	45.1	28.6	26.3	18.4	7.9
Other job losers .....	2,053	100.0	24.5	31.4	44.1	20.7	23.4
Job leavers .....	446	100.0	46.1	28.4	25.5	8.5	17.1
Reentrants .....	692	100.0	44.5	31.4	24.1	10.2	13.9
New entrants .....	114	100.0	43.4	34.3	22.3	7.6	14.7
Women, 20 years and over .....	3,055	100.0	42.4	34.8	22.8	10.9	11.9
Job losers .....	1,403	100.0	34.1	33.5	32.5	16.4	16.1
On layoff .....	384	100.0	47.8	33.1	19.1	12.2	6.8
Other job losers .....	1,019	100.0	28.9	33.6	37.5	17.9	19.6
Job leavers .....	408	100.0	51.6	32.0	16.4	5.6	10.8
Reentrants .....	1,033	100.0	49.1	36.9	14.0	6.4	7.6
New entrants .....	210	100.0	46.8	38.7	14.5	6.7	7.7
Both sexes, 16 to 19 years .....	1,611	100.0	55.5	36.6	7.9	5.5	2.4
Job losers .....	277	100.0	49.5	33.2	17.2	13.6	3.6
On layoff .....	58	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	219	100.0	43.5	38.8	17.6	13.8	3.8
Job leavers .....	187	100.0	67.1	23.1	9.7	7.4	2.3
Reentrants .....	418	100.0	51.2	42.4	6.4	5.0	1.4
New entrants .....	729	100.0	57.1	38.1	4.8	2.2	2.6

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

**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	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
Total, 16 years and over .....	6,945	8,576	100.0	100.0	5,648	7,203	100.0	100.0
Less than 5 weeks .....	3,292	3,526	47.4	41.1	2,461	2,784	43.6	38.7
5 to 14 weeks .....	2,269	2,855	32.7	33.3	1,890	2,377	33.5	33.0
5 to 10 weeks .....	1,797	2,172	25.9	25.3	1,471	1,771	26.0	24.6
11 to 14 weeks .....	472	683	6.8	8.0	419	607	7.4	8.4
15 weeks and over .....	1,384	2,195	19.9	25.6	1,297	2,042	23.0	28.3
15 to 26 weeks .....	695	1,074	10.0	12.5	647	985	11.5	13.7
27 weeks and over .....	689	1,121	9.9	13.1	650	1,057	11.5	14.7
27 to 51 weeks .....	332	620	4.8	7.2	314	593	5.6	8.2
52 weeks and over .....	357	501	5.1	5.8	336	464	5.9	6.4
Average (mean) duration, in weeks .....	11.4	13.2	-	-	12.6	14.2	-	-
Median duration, in weeks .....	4.9	6.3	-	-	5.6	7.0	-	-

**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	
	July 1991							July 1990	July 1991	July 1990	July 1991
Total, 16 years and over .....	8,576	3,526	2,855	1,074	1,121	13.2	6.3	47.4	41.1	19.9	25.6
16 to 19 years .....	1,611	893	590	89	39	6.5	4.1	64.9	55.5	4.2	7.9
20 to 24 years .....	1,542	697	556	146	143	10.8	5.4	51.7	45.2	15.3	18.7
25 to 34 years .....	2,311	931	760	309	311	13.5	6.9	46.0	40.3	20.4	26.8
35 to 44 years .....	1,622	551	513	269	289	16.3	8.7	38.8	34.0	28.2	34.4
45 to 54 years .....	908	278	288	161	160	18.3	10.4	31.1	30.7	35.8	37.6
55 to 64 years .....	467	140	111	82	133	21.0	12.8	34.9	30.1	36.7	46.0
65 years and over .....	117	34	37	19	27	21.5	9.8	43.8	29.6	13.1	38.9
Men, 16 years and over .....	4,762	1,601	1,514	704	743	14.7	7.2	43.9	37.8	22.3	30.4
16 to 19 years .....	851	462	313	51	26	6.7	4.1	64.4	54.2	3.5	9.0
20 to 24 years .....	863	381	281	104	96	12.1	5.7	46.7	44.2	16.1	23.3
25 to 34 years .....	1,271	439	419	205	208	15.0	8.3	41.9	34.5	23.5	32.5
35 to 44 years .....	916	283	272	178	183	17.4	9.8	33.5	30.9	32.2	39.4
45 to 54 years .....	502	135	154	100	113	20.7	11.7	28.0	26.9	39.9	42.4
55 to 64 years .....	294	81	56	58	100	23.7	16.7	31.0	27.4	42.5	53.5
65 years and over .....	65	20	19	9	17	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,814	1,725	1,340	370	378	11.4	5.4	51.3	45.2	17.3	19.6
16 to 19 years .....	759	431	277	38	13	6.2	4.0	65.5	56.8	5.0	6.7
20 to 24 years .....	679	316	275	42	46	9.2	5.2	56.9	46.6	14.4	12.9
25 to 34 years .....	1,041	493	341	104	103	11.6	5.1	50.7	47.3	16.6	19.9
35 to 44 years .....	706	268	241	91	106	14.8	7.5	43.8	38.0	24.4	27.9
45 to 54 years .....	406	143	134	61	67	15.3	8.7	34.6	35.3	31.2	31.7
55 to 64 years .....	172	60	55	24	33	16.4	8.1	41.0	34.7	27.7	33.1
65 years and over .....	51	14	17	10	10	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	6,570	2,739	2,123	859	849	12.9	6.2	48.8	41.7	19.7	26.0
Men .....	3,709	1,425	1,137	571	576	14.5	7.2	46.0	38.4	22.1	30.9
Women .....	2,861	1,314	986	288	273	10.8	5.3	52.0	45.9	17.0	19.6
Black, 16 years and over .....	1,711	658	637	188	228	14.4	6.6	43.5	38.5	20.1	24.3
Men .....	697	301	332	116	148	15.7	7.7	37.6	33.6	21.5	29.4
Women .....	814	357	305	72	80	13.0	5.7	49.7	43.9	18.6	18.7
Men, 16 years and over:											
Married, spouse present .....	1,644	500	463	327	355	18.1	10.2	36.8	30.4	32.7	41.5
Widowed, divorced, or separated .....	657	245	186	114	112	16.5	8.5	40.3	37.3	25.2	34.4
Single (never married) .....	2,461	1,055	866	263	276	12.0	5.7	49.4	42.9	14.9	21.9
Women, 16 years and over:											
Married, spouse present .....	1,397	648	432	160	158	11.9	5.4	49.1	46.4	19.7	22.8
Widowed, divorced, or separated .....	737	294	263	77	103	14.1	6.4	44.0	39.9	24.1	24.4
Single (never married) .....	1,680	784	645	133	117	9.9	5.0	56.7	46.7	12.0	14.9

<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	
	July 1991							July 1990	July 1991	July 1990	July 1991
<b>OCCUPATION</b>											
Managerial and professional specialty .....	989	325	334	170	160	14.9	8.2	36.1	32.9	24.1	33.4
Technical, sales, and administrative support .....	1,896	795	674	215	213	12.4	6.3	48.9	41.9	21.1	22.6
Service occupations .....	1,272	590	401	122	159	12.3	5.3	51.1	46.4	18.9	22.1
Precision production, craft, and repair .....	1,050	382	330	205	132	14.0	7.9	43.6	36.4	24.5	32.2
Operators, fabricators, and laborers .....	1,944	667	628	287	363	16.4	8.2	43.3	34.3	24.8	33.4
Farming, forestry, and fishing .....	245	134	58	28	24	11.8	4.1	49.0	54.7	13.7	21.6
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	199	99	46	33	21	14.0	4.7	45.1	49.7	11.6	27.1
Construction .....	823	307	255	129	132	14.0	7.5	45.3	37.3	22.1	31.7
Manufacturing .....	1,447	479	466	266	235	16.0	8.6	38.7	33.1	32.0	34.7
Durable goods .....	871	278	266	171	158	17.5	9.2	37.9	31.7	33.7	37.8
Nondurable goods .....	577	203	200	95	78	13.7	7.6	40.0	35.2	29.4	30.0
Transportation and public utilities .....	380	121	126	52	81	18.4	9.1	47.8	31.8	20.8	35.0
Wholesale and retail trade .....	1,911	848	625	193	245	12.5	5.7	49.5	44.4	17.1	22.9
Finance and service industries .....	2,198	875	763	292	268	13.1	6.7	46.7	39.8	21.2	25.5
Public administration .....	169	86	66	15	22	12.8	7.2	51.7	39.1	16.1	21.9
No previous work experience .....	1,152	622	424	48	58	8.2	4.2	59.2	54.0	6.1	9.2

<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	July 1991								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	8,576	7,408	21.9	8.2	73.8	42.0	23.3	4.8	1.74
16 to 19 years .....	1,611	1,535	12.9	3.7	79.6	33.6	20.1	1.8	1.52
20 to 24 years .....	1,542	1,355	22.2	7.6	71.8	43.1	21.2	4.2	1.70
25 to 34 years .....	2,311	1,970	24.3	8.2	71.8	46.1	25.4	5.1	1.81
35 to 44 years .....	1,622	1,357	27.4	11.8	75.1	44.3	23.5	6.0	1.88
45 to 54 years .....	908	749	23.3	11.1	71.5	41.4	28.1	7.2	1.83
55 to 64 years .....	467	337	26.0	10.9	69.3	47.4	23.6	9.4	1.87
65 years and over .....	117	106	9.7	5.4	65.1	32.3	16.7	7.6	1.37
Men, 16 years and over .....	4,762	4,055	24.3	8.6	74.6	41.0	25.7	5.9	1.80
16 to 19 years .....	851	808	13.8	3.5	79.7	32.1	22.7	1.8	1.54
20 to 24 years .....	863	738	25.5	9.5	73.0	39.9	26.9	4.1	1.79
25 to 34 years .....	1,271	1,047	26.6	7.2	71.9	46.6	26.1	6.9	1.85
35 to 44 years .....	916	771	31.0	12.0	76.9	44.6	27.9	7.0	1.99
45 to 54 years .....	502	418	25.4	14.4	75.7	39.7	27.7	9.7	1.93
55 to 64 years .....	294	212	26.9	8.8	69.6	41.2	23.8	11.2	1.81
65 years and over .....	65	62	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,814	3,353	19.0	7.6	72.8	43.2	20.3	3.6	1.66
16 to 19 years .....	759	727	12.0	3.9	79.5	35.2	17.2	1.7	1.50
20 to 24 years .....	679	619	18.3	5.3	70.5	47.0	14.5	4.2	1.60
25 to 34 years .....	1,041	923	21.8	9.2	71.8	45.4	24.6	3.1	1.78
35 to 44 years .....	706	585	22.6	11.5	72.8	44.0	17.7	4.7	1.73
45 to 54 years .....	406	331	20.7	6.8	66.2	43.6	28.5	3.9	1.70
55 to 64 years .....	172	125	24.5	14.6	68.7	57.9	23.3	6.2	1.95
65 years and over .....	51	44	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	6,570	5,599	20.3	7.7	74.2	44.3	24.0	5.0	1.75
Men .....	3,709	3,117	23.1	8.4	75.0	42.9	27.3	6.4	1.83
Women .....	2,861	2,482	16.8	6.8	73.1	46.0	20.0	3.3	1.66
Black, 16 years and over .....	1,711	1,538	26.0	9.5	73.7	34.0	20.9	4.3	1.68
Men .....	897	794	27.2	9.2	74.1	33.1	21.3	4.1	1.69
Women .....	814	744	24.8	9.9	73.2	34.9	20.4	4.5	1.68

<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	July 1991								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	8,576	7,408	21.9	8.2	73.8	42.0	23.3	4.8	1.74
Job losers <sup>1</sup> .....	4,339	3,270	28.7	9.3	74.3	45.4	25.5	5.6	1.89
Job leavers .....	1,041	1,006	18.5	11.3	74.5	44.3	20.0	3.6	1.72
Reentrants .....	2,143	2,100	17.5	7.1	72.1	38.7	21.0	5.2	1.61
New entrants .....	1,053	1,032	12.9	3.8	74.9	35.7	24.0	2.9	1.54
Men, 16 years and over .....	4,762	4,055	24.3	8.6	74.6	41.0	25.7	5.9	1.80
Job losers <sup>1</sup> .....	2,832	2,182	30.4	9.0	75.0	44.2	26.4	6.5	1.92
Job leavers .....	542	520	20.1	10.8	75.3	38.4	23.3	5.1	1.73
Reentrants .....	908	885	16.5	8.8	72.6	38.7	23.4	7.0	1.67
New entrants .....	480	468	15.7	4.1	75.9	33.7	29.6	2.1	1.61
Women, 16 years and over .....	3,814	3,353	19.0	7.6	72.8	43.2	20.3	3.6	1.66
Job losers <sup>1</sup> .....	1,507	1,088	25.1	9.7	73.0	48.0	23.7	3.8	1.83
Job leavers .....	499	486	16.7	11.8	73.7	50.6	16.4	2.0	1.71
Reentrants .....	1,234	1,214	18.2	5.9	71.7	38.6	19.2	3.9	1.57
New entrants .....	574	564	10.7	3.6	74.1	37.3	19.4	3.6	1.49

<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.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
All industries .....	119,954	118,751	66,047	65,125	53,907	53,626
16 to 19 years .....	7,794	6,985	4,096	3,686	3,698	3,299
16 to 17 years .....	3,098	2,825	1,653	1,544	1,445	1,281
18 to 19 years .....	4,696	4,160	2,444	2,142	2,253	2,018
20 to 24 years .....	13,382	12,838	7,163	6,894	6,218	5,943
25 to 54 years .....	83,990	84,297	46,240	46,194	37,750	38,103
25 to 34 years .....	33,744	32,898	18,808	18,291	14,936	14,607
35 to 44 years .....	30,440	31,305	16,603	17,021	13,836	14,284
45 to 54 years .....	19,806	20,094	10,828	10,882	8,978	9,212
55 to 64 years .....	11,390	11,278	6,550	6,412	4,840	4,866
55 to 59 years .....	6,760	6,792	3,847	3,784	2,913	3,008
60 to 64 years .....	4,630	4,486	2,703	2,628	1,927	1,857
65 years and over .....	3,399	3,354	1,998	1,939	1,401	1,415
Agriculture .....	3,573	3,740	2,824	2,960	749	780
16 to 19 years .....	411	436	338	348	73	88
16 to 17 years .....	218	240	174	199	45	41
18 to 19 years .....	193	197	164	150	28	47
20 to 24 years .....	422	394	355	333	67	61
25 to 54 years .....	2,018	2,205	1,538	1,701	480	504
25 to 34 years .....	879	864	692	704	187	160
35 to 44 years .....	693	609	519	604	174	205
45 to 54 years .....	446	531	327	393	119	138
55 to 64 years .....	416	416	321	323	96	93
55 to 59 years .....	231	207	176	159	56	48
60 to 64 years .....	185	209	145	164	40	45
65 years and over .....	306	290	273	255	34	34
Nonagricultural industries .....	116,381	115,010	63,223	62,165	53,158	52,846
16 to 19 years .....	7,383	6,549	3,758	3,337	3,625	3,211
16 to 17 years .....	2,880	2,586	1,479	1,345	1,400	1,240
18 to 19 years .....	4,504	3,963	2,279	1,992	2,225	1,971
20 to 24 years .....	12,960	12,444	6,809	6,561	6,151	5,882
25 to 54 years .....	81,972	82,092	44,701	44,493	37,270	37,599
25 to 34 years .....	32,865	32,034	18,116	17,587	14,749	14,447
35 to 44 years .....	29,747	30,495	16,085	16,417	13,662	14,078
45 to 54 years .....	19,360	19,563	10,501	10,489	8,859	9,074
55 to 64 years .....	10,974	10,862	6,229	6,089	4,745	4,773
55 to 59 years .....	6,529	6,585	3,671	3,625	2,658	2,960
60 to 64 years .....	4,445	4,277	2,558	2,464	1,887	1,813
65 years and over .....	3,092	3,064	1,725	1,684	1,367	1,381

**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	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
Total .....	119,954	118,751	66,047	65,125	61,951	61,439	53,907	53,626	50,210	50,326
Managerial and professional specialty .....	30,466	30,617	16,699	16,630	16,573	16,497	13,766	13,987	13,628	13,819
Executive, administrative, and managerial .....	15,097	15,155	9,051	9,015	8,995	8,973	6,046	6,140	5,984	6,087
Officials and administrators, public administration .....	617	596	369	348	369	348	248	248	247	247
Other executive, administrative, and managerial .....	10,575	10,624	6,718	6,697	6,666	6,661	3,857	3,927	3,803	3,877
Management-related occupations .....	3,905	3,936	1,965	1,971	1,960	1,964	1,941	1,965	1,934	1,963
Professional specialty .....	15,369	15,462	7,648	7,615	7,579	7,525	7,720	7,847	7,643	7,731
Engineers .....	1,915	1,842	1,760	1,682	1,759	1,680	155	160	154	159
Mathematical and computer scientists .....	785	991	487	633	487	633	298	358	298	356
Natural scientists .....	372	410	272	319	270	319	99	91	99	91
Health diagnosing occupations .....	665	837	733	676	730	676	132	161	132	160
Health assessment and treating occupations .....	2,323	2,375	336	335	335	335	1,988	2,040	1,987	2,037
Teachers, college and university .....	655	661	424	399	423	399	231	263	231	257
Teachers, except college and university .....	3,449	3,393	872	797	851	781	2,577	2,596	2,548	2,549
Lawyers and judges .....	795	822	615	678	615	677	179	144	175	144
Other professional specialty occupations .....	4,211	4,130	2,148	2,095	2,110	2,024	2,062	2,034	2,019	1,977
Technical, sales, and administrative support .....	36,756	36,106	12,858	12,666	12,185	12,009	23,898	23,439	22,015	21,854
Technicians and related support .....	3,894	3,848	1,962	1,889	1,936	1,862	1,932	1,959	1,903	1,932
Health technologists and technicians .....	1,286	1,429	210	228	205	226	1,076	1,201	1,071	1,197
Engineering and science technicians .....	1,241	1,168	945	896	927	875	297	271	277	261
Technicians, except health, engineering, and science .....	1,367	1,251	807	765	804	762	559	487	555	473
Sales occupations .....	14,406	14,098	7,247	7,162	6,848	6,763	7,159	6,936	6,019	5,972
Supervisors and proprietors .....	3,821	3,825	2,526	2,497	2,513	2,476	1,295	1,328	1,271	1,305
Sales representatives, finance and business services .....	2,487	2,346	1,442	1,360	1,433	1,348	1,045	986	994	960
Sales representatives, commodities, except retail .....	1,647	1,659	1,274	1,268	1,272	1,263	373	391	364	382
Sales workers, retail and personal services .....	6,377	6,184	1,973	2,008	1,602	1,646	4,404	4,177	3,354	3,272
Sales-related occupations .....	74	84	32	30	28	29	42	54	36	52
Administrative support, including clerical .....	18,457	18,160	3,649	3,616	3,402	3,385	14,807	14,545	14,094	13,951
Supervisors .....	794	804	347	300	345	300	447	503	447	500
Computer equipment operators .....	847	745	284	258	273	242	563	487	536	471
Secretaries, stenographers, and typists .....	4,687	4,541	77	70	73	68	4,610	4,471	4,423	4,340
Financial records processing .....	2,370	2,346	198	215	188	208	2,172	2,130	2,139	2,103
Mail and message distributing .....	941	915	609	574	580	537	332	341	316	320
Other administrative support, including clerical .....	8,818	8,810	2,135	2,197	1,942	2,029	6,684	6,613	6,233	6,216
Service occupations .....	16,400	16,687	6,609	6,726	5,457	5,736	9,791	9,961	8,473	8,735
Private household .....	831	938	34	36	25	32	797	902	639	719
Protective service .....	2,110	2,277	1,791	1,915	1,674	1,827	320	363	248	298
Service, except private household and protective .....	13,459	13,472	4,784	4,775	3,759	3,878	8,675	8,696	7,585	7,717
Food service .....	5,678	5,488	2,302	2,238	1,589	1,624	3,376	3,250	2,679	2,648
Health service .....	2,154	2,290	206	289	193	262	1,947	2,001	1,841	1,880
Cleaning and building service .....	3,161	3,144	1,804	1,756	1,601	1,586	1,357	1,388	1,254	1,325
Personal service .....	2,466	2,550	471	493	376	406	1,995	2,057	1,811	1,863
Precision production, craft, and repair .....	14,096	13,436	12,887	12,296	12,502	11,993	1,209	1,140	1,166	1,117
Mechanics and repairers .....	4,609	4,467	4,446	4,292	4,347	4,202	163	175	163	169
Construction trades .....	5,306	5,012	5,215	4,917	4,998	4,743	91	96	84	92
Other precision production, craft, and repair .....	4,181	3,957	3,225	3,087	3,157	3,048	956	870	919	856
Operators, fabricators, and laborers .....	18,180	17,645	13,544	13,234	12,280	12,142	4,636	4,412	4,389	4,200
Machine operators, assemblers, and inspectors .....	8,262	7,842	4,877	4,672	4,662	4,516	3,385	3,170	3,280	3,085
Manufacturing industries .....	6,726	6,409	3,965	3,753	3,795	3,656	2,761	2,656	2,676	2,587
Durable goods .....	3,699	3,471	2,546	2,433	2,447	2,382	1,153	1,038	1,118	1,014
Nondurable goods .....	3,027	2,938	1,419	1,321	1,348	1,275	1,608	1,617	1,559	1,573
Nonmanufacturing industries .....	1,536	1,433	912	919	867	860	624	514	603	498
Transportation and material moving occupations .....	4,828	4,814	4,441	4,438	4,302	4,314	387	376	382	366
Motor vehicle operators .....	3,494	3,614	3,169	3,286	3,049	3,182	325	328	323	318
Other transportation and material moving occupations .....	1,333	1,199	1,272	1,152	1,253	1,132	62	48	59	48
Handlers, equipment cleaners, helpers, and laborers .....	5,090	4,990	4,226	4,123	3,316	3,312	864	867	727	749
Construction laborers .....	912	867	876	831	735	709	36	36	30	30
Other handlers, equipment cleaners, helpers, and laborers .....	4,178	4,123	3,350	3,293	2,581	2,603	828	830	697	719
Farming, forestry, and fishing .....	4,057	4,259	3,450	3,573	2,952	3,061	607	686	539	602
Farm operators and managers .....	1,324	1,314	1,112	1,095	1,089	1,084	211	219	206	219
Other farming, forestry, and fishing occupations .....	2,733	2,945	2,338	2,478	1,863	1,977	396	467	333	383

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	July 1990	July 1991	July 1990	July 1991	July 1990	July 1991
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	119,954	118,751	66,047	65,125	53,907	53,628
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.4	25.8	25.3	25.5	25.5	26.1
Executive, administrative, and managerial .....	12.6	12.8	13.7	13.8	11.2	11.4
Professional specialty .....	12.8	13.0	11.6	11.7	14.3	14.6
Technical, sales, and administrative support .....	30.6	30.4	19.5	19.4	44.3	43.7
Technicians and related support .....	3.2	3.2	3.0	2.9	3.6	3.7
Sales occupations .....	12.0	11.9	11.0	11.0	13.3	12.9
Administrative support, including clerical .....	15.4	15.3	5.5	5.6	27.5	27.1
Service occupations .....	13.7	14.1	10.0	10.3	18.2	18.6
Private household .....	.7	.8	.1	.1	1.5	1.7
Protective service .....	1.8	1.9	2.7	2.9	.6	.7
Service, except private household and protective .....	11.2	11.3	7.2	7.3	16.1	18.2
Precision production, craft, and repair .....	11.8	11.3	19.5	18.9	2.2	2.1
Operators, fabricators, and laborers .....	15.2	14.9	20.5	20.3	8.6	8.2
Machine operators, assemblers, and inspectors .....	6.9	6.6	7.4	7.2	6.3	5.9
Transportation and material moving occupations .....	4.0	4.1	6.7	6.8	.7	.7
Handlers, equipment cleaners, helpers, and laborers .....	4.2	4.2	6.4	6.3	1.6	1.6
Farming, forestry, and fishing .....	3.4	3.6	5.2	5.5	1.1	1.3
<b>White</b>						
Total, 16 years and over (thousands) .....	103,914	102,475	57,819	56,805	46,095	45,670
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.4	26.9	26.4	26.6	28.5	27.2
Executive, administrative, and managerial .....	13.3	13.5	14.5	14.7	11.8	12.1
Professional specialty .....	13.1	13.4	11.9	12.0	14.7	15.1
Technical, sales, and administrative support .....	31.0	30.8	19.6	19.6	45.3	44.7
Technicians and related support .....	3.2	3.2	3.0	2.9	3.6	3.7
Sales occupations .....	12.5	12.4	11.5	11.5	13.8	13.5
Administrative support, including clerical .....	15.3	15.1	5.1	5.1	27.9	27.6
Service occupations .....	12.5	12.8	8.9	9.3	16.9	17.2
Private household .....	.6	.7	-	.1	1.3	1.5
Protective service .....	1.7	1.8	2.6	2.7	.5	.6
Service, except private household and protective .....	10.2	10.3	6.3	6.5	15.1	15.1
Precision production, craft, and repair .....	12.2	11.8	20.2	19.6	2.1	2.1
Operators, fabricators, and laborers .....	14.4	14.0	19.5	19.3	8.0	7.4
Machine operators, assemblers, and inspectors .....	6.5	6.1	7.1	6.9	5.7	5.2
Transportation and material moving occupations .....	3.8	3.8	6.3	6.3	.7	.7
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.1	6.0	6.1	1.6	1.6
Farming, forestry, and fishing .....	3.6	3.7	5.4	5.6	1.2	1.4
<b>Black</b>						
Total, 16 years and over (thousands) .....	12,168	12,192	6,095	6,080	6,074	6,111
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	18.1	15.8	14.0	13.1	18.2	18.6
Executive, administrative, and managerial .....	7.2	6.9	7.1	6.4	7.3	7.3
Professional specialty .....	8.9	8.9	6.9	6.7	10.9	11.2
Technical, sales, and administrative support .....	27.7	28.0	16.7	17.8	38.8	38.2
Technicians and related support .....	2.9	2.8	2.2	2.3	3.6	3.2
Sales occupations .....	7.9	8.1	6.0	6.5	9.9	9.8
Administrative support, including clerical .....	16.9	17.1	8.5	9.0	25.3	25.2
Service occupations .....	23.2	23.7	19.0	19.2	27.4	28.1
Private household .....	1.6	1.5	.1	.1	3.1	3.0
Protective service .....	2.8	3.3	4.6	5.3	1.1	1.3
Service, except private household and protective .....	18.8	18.8	14.3	13.9	23.3	23.7
Precision production, craft, and repair .....	8.7	8.1	14.7	14.3	2.7	1.9
Operators, fabricators, and laborers .....	22.2	21.7	32.1	30.5	12.2	12.9
Machine operators, assemblers, and inspectors .....	10.1	9.7	10.5	9.2	9.7	10.2
Transportation and material moving occupations .....	6.1	6.7	11.4	12.3	.8	1.2
Handlers, equipment cleaners, helpers, and laborers .....	6.0	5.3	10.2	9.1	1.7	1.6
Farming, forestry, and fishing .....	2.1	2.7	3.6	5.0	.6	.4

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	July 1991								
	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					
<b>Total, 16 years and over</b> .....	<b>105,876</b>	<b>1,215</b>	<b>17,376</b>	<b>87,286</b>	<b>8,904</b>	<b>230</b>	<b>1,956</b>	<b>1,629</b>	<b>156</b>
16 to 19 years .....	6,473	247	561	5,665	66	10	341	53	43
16 to 17 years .....	2,557	170	220	2,167	26	3	169	41	30
18 to 19 years .....	3,916	77	340	3,499	40	7	172	12	12
20 to 24 years .....	12,113	157	1,045	10,911	311	20	320	58	15
25 to 34 years .....	30,104	207	4,114	25,782	1,885	46	536	311	16
35 to 44 years .....	27,627	172	5,503	21,952	2,806	62	384	398	28
45 to 54 years .....	17,477	162	3,790	13,525	2,036	49	202	312	18
55 to 64 years .....	9,663	167	1,987	7,509	1,171	28	125	273	18
55 to 59 years .....	5,909	91	1,219	4,599	659	17	60	135	13
60 to 64 years .....	3,754	76	768	2,910	512	11	65	139	5
65 years and over .....	2,420	104	375	1,942	629	15	49	222	19
<b>Men, 16 years and over</b> .....	<b>56,422</b>	<b>207</b>	<b>8,230</b>	<b>47,984</b>	<b>5,709</b>	<b>33</b>	<b>1,553</b>	<b>1,340</b>	<b>68</b>
16 to 19 years .....	3,294	62	281	2,950	38	5	275	46	28
16 to 17 years .....	1,331	38	109	1,185	13	1	143	36	20
18 to 19 years .....	1,963	24	173	1,766	25	4	132	9	9
20 to 24 years .....	6,351	31	502	5,817	204	7	269	49	15
25 to 34 years .....	16,435	52	1,995	14,388	1,140	12	421	276	7
35 to 44 years .....	14,632	32	2,514	12,087	1,782	2	293	306	5
45 to 54 years .....	9,191	5	1,750	7,436	1,294	4	158	235	-
55 to 64 years .....	5,255	21	1,010	4,225	831	3	94	224	4
55 to 59 years .....	3,164	12	617	2,534	461	-	43	112	3
60 to 64 years .....	2,091	8	392	1,690	370	3	51	112	1
65 years and over .....	1,263	4	178	1,081	420	1	42	205	8
<b>Women, 16 years and over</b> .....	<b>49,455</b>	<b>1,008</b>	<b>9,145</b>	<b>39,302</b>	<b>3,195</b>	<b>197</b>	<b>403</b>	<b>289</b>	<b>88</b>
16 to 19 years .....	3,179	185	279	2,715	27	5	66	8	14
16 to 17 years .....	1,226	132	112	982	12	2	26	5	10
18 to 19 years .....	1,953	52	168	1,733	15	3	40	3	4
20 to 24 years .....	5,762	125	543	5,094	107	13	51	10	-
25 to 34 years .....	13,668	155	2,120	11,394	745	34	115	36	10
35 to 44 years .....	12,994	140	2,989	9,865	1,024	60	91	92	23
45 to 54 years .....	8,286	157	2,040	6,088	743	46	43	78	17
55 to 64 years .....	4,408	146	977	3,284	340	25	31	49	13
55 to 59 years .....	2,745	78	602	2,065	198	17	17	22	10
60 to 64 years .....	1,663	68	375	1,220	142	8	14	27	4
65 years and over .....	1,157	99	197	861	209	15	7	17	10



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	July 1991												
	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 .....	3,740	103	64	37	28	84	-	12	42	8	60	10	3,293
Mining .....	764	113	63	43	-	74	-	11	256	24	122	51	6
Construction .....	7,471	1,038	130	54	59	389	-	18	4,224	100	487	937	35
Manufacturing .....	20,677	2,586	1,739	738	736	2,266	-	364	3,920	6,409	773	1,062	84
Durable goods .....	12,078	1,551	1,143	486	279	1,285	-	205	2,664	3,471	427	493	74
Nondurable goods .....	8,600	1,035	596	252	457	981	-	159	1,256	2,938	346	569	10
Transportation and public utilities .....	8,209	960	482	315	344	2,116	-	303	1,305	116	1,768	482	18
Wholesale and retail trade .....	24,410	2,126	404	112	10,055	2,327	-	4,664	1,442	331	1,035	1,864	50
Wholesale trade .....	4,752	557	65	15	1,935	796	-	40	310	158	494	372	11
Retail trade .....	19,657	1,570	339	97	8,119	1,531	-	4,624	1,132	173	541	1,492	39
Finance, insurance, and real estate .....	7,890	2,060	239	115	1,844	3,015	-	272	209	15	9	19	91
Services .....	39,607	4,917	11,519	2,168	1,020	6,289	938	8,601	1,778	795	475	511	597
Private households .....	1,219	-	8	1	-	11	938	90	22	4	10	23	113
Other service industries .....	38,387	4,917	11,512	2,167	1,020	6,278	-	8,510	1,756	790	466	488	484
Professional services .....	24,848	2,736	9,985	1,790	170	4,546	-	4,577	361	213	233	102	135
Public administration .....	5,983	1,252	820	265	13	1,601	-	1,505	260	44	84	54	85

<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					
	July 1990	July 1991	Total		Wage and salary workers <sup>1</sup>			
			July 1990	July 1991	Paid absences		Unpaid absences	
					July 1990	July 1991	July 1990	July 1991
Total, 16 years and over .....	11,875	11,954	11,736	11,784	6,843	7,088	4,070	3,846
Vacation .....	9,343	9,364	9,266	9,284	6,090	6,252	2,670	2,514
Illness .....	1,175	1,273	1,149	1,223	456	484	612	613
Bad weather .....	65	40	50	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	25	4	24	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,266	1,271	1,246	1,254	297	351	787	720
Men, 16 years and over .....	5,070	4,981	4,957	4,864	3,212	3,215	1,308	1,232
Vacation .....	3,943	3,815	3,888	3,761	2,908	2,857	713	668
Illness .....	594	610	573	576	218	234	319	289
All other reasons <sup>3</sup> .....	534	556	497	526	85	125	276	276
Women, 16 years and over .....	6,805	6,973	6,779	6,921	3,632	3,873	2,763	2,615
Vacation .....	5,400	5,549	5,378	5,523	3,182	3,396	1,957	1,846
Illness .....	580	664	576	646	238	251	293	324
All other reasons <sup>3</sup> .....	825	760	826	752	212	227	512	445

<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	July 1991					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	106,797	3,571	103,226	100.0	100.0	100.0
1 to 34 hours .....	24,542	962	23,580	23.0	26.9	22.8
1 to 4 hours .....	707	41	666	.7	1.1	.6
5 to 14 hours .....	3,672	217	3,455	3.4	6.1	3.3
15 to 29 hours .....	12,633	459	12,174	11.8	12.9	11.8
30 to 34 hours .....	7,530	245	7,285	7.1	6.9	7.1
35 hours and over .....	82,255	2,609	79,646	77.0	73.1	77.2
35 to 39 hours .....	7,215	171	7,044	6.8	4.8	6.8
40 hours .....	43,806	737	43,068	41.0	20.6	41.7
41 hours and over .....	31,235	1,701	29,534	29.2	47.6	28.6
41 to 48 hours .....	10,767	220	10,547	10.1	6.2	10.2
49 to 59 hours .....	11,465	489	10,976	10.7	13.7	10.6
60 hours and over .....	9,003	992	8,011	8.4	27.8	7.8
Average hours, total at work .....	39.7	45.3	39.5	-	-	-
Average hours, workers on full-time schedules .....	43.7	52.8	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	July 1991					
	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 .....	24,542	7,366	17,176	23,580	7,107	16,473
Economic reasons .....	6,546	2,024	4,523	6,221	1,921	4,300
Slack work .....	3,082	1,689	1,393	2,918	1,596	1,322
Material shortages or repairs to plant and equipment .....	47	47	-	44	44	-
New job started during week .....	232	232	-	233	233	-
Job terminated during week .....	55	55	-	47	47	-
Could find only part-time work .....	3,129	-	3,129	2,978	-	2,978
Other reasons .....	17,995	5,342	12,653	17,359	5,186	12,173
Does not want, or unavailable for, full-time work .....	9,965	-	9,965	9,581	-	9,581
Vacation .....	2,494	2,494	-	2,472	2,472	-
Illness .....	1,079	952	127	1,056	937	119
Bad weather .....	209	209	-	153	153	-
Industrial dispute .....	1	1	-	1	1	-
Legal or religious holiday .....	192	192	-	188	188	-
Full time for this job .....	1,617	-	1,617	1,586	-	1,586
All other reasons .....	2,439	1,494	945	2,322	1,435	887
Average hours:						
Economic reasons .....	22.3	24.3	21.4	22.4	24.4	21.5
Other reasons .....	21.7	24.8	20.4	21.8	24.9	20.5
Worked 30 to 34 hours:						
Economic reasons .....	2,110	924	1,186	2,018	893	1,125
Other reasons .....	5,419	2,506	2,913	5,266	2,442	2,824

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

(Numbers in thousands)

Industry	July 1991								
	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 .....	103,226	6,221	12,173	84,832	55,298	10,547	18,987	39.5	43.4
Wage and salary workers .....	94,843	5,515	10,743	78,585	52,494	9,879	16,212	39.3	43.0
Mining .....	660	14	10	636	345	89	202	45.8	46.7
Construction .....	5,724	445	175	5,103	3,521	547	1,035	40.7	42.9
Manufacturing .....	18,259	488	515	17,257	11,306	2,579	3,371	42.0	43.1
Durable goods .....	10,646	194	215	10,238	6,697	1,483	2,058	42.5	43.2
Nondurable goods .....	7,612	294	300	7,019	4,609	1,096	1,313	41.4	42.9
Transportation and public utilities .....	7,215	232	391	6,592	4,124	855	1,613	42.2	44.1
Wholesale and retail trade .....	20,948	2,038	3,896	15,014	9,107	2,185	3,721	37.7	43.9
Finance, insurance, and real estate .....	6,748	151	609	5,988	4,138	690	1,160	40.1	42.5
Service industries .....	29,752	2,070	4,920	22,762	16,078	2,395	4,288	37.3	42.4
Private households .....	1,133	241	396	496	340	43	113	28.3	44.0
All other industries .....	28,620	1,830	4,524	22,265	15,738	2,352	4,175	37.6	42.4
Public administration .....	5,538	78	226	5,233	3,874	538	821	41.0	42.1
Self-employed workers .....	8,153	692	1,363	6,097	2,717	646	2,735	40.8	48.2
Unpaid family workers .....	230	13	67	150	87	22	41	38.5	46.4

**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	July 1991							
	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 .....	103,226	6,221	12,173	84,832	55,298	29,534	39.5	43.4
16 to 19 years .....	6,275	1,271	2,151	2,853	2,300	553	29.7	40.4
16 to 17 years .....	2,448	558	1,157	734	633	101	25.1	38.9
18 to 19 years .....	3,827	714	994	2,120	1,667	453	32.6	40.9
20 years and over .....	96,951	4,950	10,022	81,979	52,998	28,981	40.1	43.5
20 to 24 years .....	11,840	1,108	1,604	9,127	6,573	2,555	37.8	42.2
25 years and over .....	85,111	3,842	8,418	72,851	46,425	26,426	40.4	43.7
25 to 44 years .....	56,057	2,552	4,513	48,992	30,676	18,316	41.0	43.8
45 to 64 years .....	26,365	1,183	2,595	22,587	14,866	7,721	40.3	43.6
65 years and over .....	2,668	108	1,310	1,271	882	389	29.2	42.5
<b>Men, 16 years and over</b>								
Men, 16 years and over .....	57,301	2,966	3,446	50,888	29,846	21,042	42.2	44.8
16 to 19 years .....	3,204	653	954	1,597	1,263	334	30.9	40.8
16 to 17 years .....	1,273	303	568	402	344	58	25.7	38.8
18 to 19 years .....	1,932	351	386	1,195	919	276	34.3	41.4
20 years and over .....	54,097	2,313	2,492	49,292	28,584	20,708	42.9	45.0
20 to 24 years .....	6,313	578	605	5,129	3,448	1,681	39.5	43.4
25 years and over .....	47,784	1,735	1,887	44,162	25,136	19,027	43.3	45.2
25 to 44 years .....	31,414	1,189	657	29,568	16,395	13,173	44.0	45.3
45 to 64 years .....	14,846	485	569	13,792	8,193	5,599	43.3	45.0
65 years and over .....	1,524	61	661	802	548	254	31.1	43.0
<b>Women, 16 years and over</b>								
Women, 16 years and over .....	45,925	3,255	8,726	33,944	25,452	8,492	36.0	41.3
16 to 19 years .....	3,071	618	1,196	1,257	1,037	220	28.4	39.8
16 to 17 years .....	1,175	255	588	332	289	43	24.5	39.0
18 to 19 years .....	1,895	363	608	925	748	177	30.8	40.1
20 years and over .....	42,854	2,637	7,530	32,687	24,414	8,273	36.6	41.4
20 to 24 years .....	5,527	530	999	3,998	3,125	873	35.9	40.7
25 years and over .....	37,327	2,107	6,531	28,689	21,290	7,399	36.7	41.5
25 to 44 years .....	24,645	1,362	3,856	19,427	14,284	5,143	37.2	41.5
45 to 64 years .....	11,519	698	2,027	8,794	6,671	2,123	36.5	41.4
65 years and over .....	1,164	46	649	469	334	135	26.6	41.6
<b>RACE</b>								
<b>White, 16 years and over</b>								
White, 16 years and over .....	88,690	5,078	10,823	72,790	46,171	26,619	39.6	43.6
Men .....	49,791	2,438	2,968	44,385	25,217	19,169	42.5	45.1
Women .....	38,899	2,640	7,855	28,405	20,954	7,450	35.9	41.4
<b>Black, 16 years and over</b>								
Black, 16 years and over .....	10,821	948	923	8,949	7,010	1,939	38.2	41.6
Men .....	5,473	429	334	4,710	3,458	1,252	39.9	42.7
Women .....	5,347	520	589	4,239	3,552	687	36.5	40.3
<b>MARITAL STATUS</b>								
<b>Men, 16 years and over:</b>								
Married, spouse present .....	35,478	994	1,352	33,132	18,417	14,715	43.8	45.4
Widowed, divorced, or separated .....	5,911	359	217	5,335	3,112	2,222	42.9	45.1
Single (never married) .....	15,912	1,614	1,877	12,421	8,317	4,104	38.5	43.3
<b>Women, 16 years and over:</b>								
Married, spouse present .....	24,066	1,234	5,205	17,627	13,458	4,168	35.6	41.0
Widowed, divorced, or separated .....	9,531	694	1,149	7,688	5,515	2,173	38.0	42.1
Single (never married) .....	12,328	1,327	2,372	8,629	6,478	2,151	35.4	41.2

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	July 1991								
	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> .....	102,740	6,149	12,088	84,503	54,990	10,533	18,980	39.5	43.4
Managerial and professional specialty .....	25,897	681	2,342	22,874	12,877	2,888	7,109	41.9	44.8
Executive, administrative, and managerial .....	13,969	243	728	12,998	6,776	1,691	4,531	43.9	45.5
Professional specialty .....	11,928	438	1,614	9,876	6,101	1,197	2,578	39.6	43.8
Technical, sales, and administrative support .....	33,166	1,644	4,918	26,603	18,359	3,246	4,998	38.4	42.6
Technicians and related support .....	3,539	60	336	3,142	2,287	380	475	39.7	41.9
Sales occupations .....	13,197	967	2,277	9,952	5,273	1,341	3,338	39.6	45.5
Administrative support, including clerical .....	16,430	617	2,304	13,509	10,800	1,524	1,185	37.1	40.5
Service occupations .....	15,259	1,956	3,389	9,914	7,170	1,015	1,728	35.1	42.6
Private household .....	870	168	311	391	257	36	98	28.9	43.9
Protective service .....	2,088	89	128	1,871	1,141	253	477	42.9	45.2
Service, except private household and protective .....	12,300	1,699	2,950	7,652	5,772	726	1,153	34.2	41.9
Precision production, craft, and repair .....	12,453	711	403	11,339	7,359	1,574	2,405	41.6	43.6
Operators, fabricators, and laborers .....	15,965	1,156	1,036	13,774	9,224	1,810	2,739	40.6	43.4
Machine operators, assemblers, and inspectors .....	7,048	356	230	6,462	4,702	871	888	40.8	42.3
Transportation and material moving occupations .....	4,300	243	230	3,827	1,978	466	1,383	44.1	46.9
Handlers, equipment cleaners, helpers, and laborers .....	4,617	557	576	3,485	2,544	473	468	37.0	41.8
Men, 16 years and over <sup>1</sup> .....	56,726	2,884	3,324	50,519	29,515	6,595	14,409	42.3	44.9
Managerial and professional specialty .....	14,937	321	647	13,969	6,891	1,743	5,335	44.6	46.3
Executive, administrative, and managerial .....	8,377	131	249	7,997	3,579	1,017	3,400	45.9	47.1
Professional specialty .....	6,560	190	398	5,972	3,312	725	1,935	43.0	45.3
Technical, sales, and administrative support .....	11,928	371	863	10,694	5,838	1,454	3,402	42.8	45.3
Technicians and related support .....	1,736	25	70	1,641	1,106	225	309	41.5	42.6
Sales occupations .....	6,838	233	547	6,057	2,642	805	2,610	44.5	47.5
Administrative support, including clerical .....	3,355	113	246	2,995	2,089	424	483	40.1	42.3
Service occupations .....	6,292	723	832	4,736	3,270	503	964	38.2	43.5
Private household .....	31	7	3	22	16	-	7	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,769	58	91	1,620	958	233	430	43.6	45.5
Service, except private household and protective .....	4,491	659	738	3,094	2,296	271	527	36.0	42.5
Precision production, craft, and repair .....	11,432	649	293	10,491	6,740	1,475	2,276	41.9	43.7
Operators, fabricators, and laborers .....	12,137	820	689	10,628	6,777	1,420	2,432	41.5	44.2
Machine operators, assemblers, and inspectors .....	4,243	135	69	4,039	2,818	572	649	42.2	43.1
Transportation and material moving occupations .....	4,063	216	178	3,669	1,882	437	1,349	44.5	47.0
Handlers, equipment cleaners, helpers, and laborers .....	3,832	469	442	2,921	2,076	411	434	37.4	42.2
Women, 16 years and over <sup>1</sup> .....	46,014	3,265	8,764	33,984	25,474	3,939	4,571	36.0	41.3
Managerial and professional specialty .....	10,960	360	1,695	8,905	5,985	1,146	1,773	38.2	42.3
Executive, administrative, and managerial .....	5,592	112	479	5,001	3,197	674	1,131	40.8	43.0
Professional specialty .....	5,368	249	1,216	3,903	2,789	472	642	35.4	41.3
Technical, sales, and administrative support .....	21,238	1,273	4,055	15,909	12,522	1,791	1,597	35.8	40.7
Technicians and related support .....	1,803	35	266	1,501	1,180	155	166	38.0	41.2
Sales occupations .....	6,359	734	1,730	3,895	2,630	536	729	34.3	42.4
Administrative support, including clerical .....	13,075	504	2,058	10,513	8,711	1,101	702	36.3	40.0
Service occupations .....	8,967	1,233	2,557	5,177	3,900	512	765	32.9	41.8
Private household .....	838	161	308	369	241	37	91	28.6	43.7
Protective service .....	319	31	37	251	183	20	48	38.9	43.4
Service, except private household and protective .....	7,810	1,040	2,212	4,557	3,476	455	626	33.1	41.6
Precision production, craft, and repair .....	1,021	63	110	848	619	100	129	37.8	41.5
Operators, fabricators, and laborers .....	3,828	336	347	3,145	2,448	390	307	37.7	41.0
Machine operators, assemblers, and inspectors .....	2,806	221	161	2,423	1,884	300	239	38.6	41.0
Transportation and material moving occupations .....	237	26	52	159	96	29	34	36.6	44.9
Handlers, equipment cleaners, helpers, and laborers .....	786	88	134	563	467	62	34	34.7	39.9

<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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	189,763	189,901	190,002	190,095	190,312	190,483	190,592	190,717	190,703	190,836	190,980	191,173	191,443
Labor force <sup>1</sup> .....	126,336	126,345	126,571	126,445	126,338	126,791	126,253	126,678	126,786	127,128	126,690	127,134	126,818
Percent of population <sup>2</sup> .....	66.6	66.5	66.6	66.5	66.4	66.6	66.2	66.4	66.5	66.6	66.3	66.5	66.2
Total employed <sup>1</sup> .....	119,509	119,330	119,484	119,303	119,001	119,191	118,537	118,520	118,214	118,854	118,049	118,389	118,316
Employment-population ratio <sup>3</sup> .....	63.0	62.8	62.9	62.8	62.5	62.6	62.2	62.1	62.0	62.3	61.8	61.9	61.8
Resident Armed Forces .....	1,627	1,640	1,601	1,570	1,615	1,617	1,615	1,602	1,460	1,456	1,458	1,505	1,604
Civilian employed .....	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	116,754	117,398	116,591	116,884	116,712
Agriculture .....	3,108	3,152	3,194	3,175	3,185	3,253	3,163	3,222	3,098	3,156	3,272	3,308	3,239
Nonagricultural industries .....	114,774	114,538	114,689	114,558	114,201	114,321	113,759	113,696	113,656	114,243	113,319	113,576	113,474
Unemployed .....	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158	8,572	8,274	8,640	8,745	8,501
Unemployment rate <sup>4</sup> .....	5.4	5.6	5.6	5.6	5.8	6.0	6.1	6.4	6.8	6.5	6.8	6.9	6.7
Not in labor force .....	63,427	63,556	63,431	63,650	63,974	63,692	64,339	64,039	63,917	63,708	64,291	64,039	64,625
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	91,168	91,240	91,271	91,299	91,440	91,537	91,590	91,650	91,587	91,652	91,720	91,839	92,023
Labor force <sup>1</sup> .....	69,523	69,552	69,814	69,804	69,899	70,058	69,543	69,749	69,808	69,855	69,704	69,793	69,821
Percent of population <sup>2</sup> .....	76.3	76.2	76.5	76.5	76.4	76.5	75.9	76.1	76.2	76.2	76.0	76.0	75.9
Total employed <sup>1</sup> .....	65,728	65,663	65,853	65,822	65,790	65,781	65,251	65,043	64,846	65,112	64,746	64,750	64,820
Employment-population ratio <sup>3</sup> .....	72.1	72.0	72.2	72.1	71.9	71.9	71.2	71.0	70.8	71.0	70.6	70.5	70.4
Resident Armed Forces .....	1,462	1,475	1,441	1,414	1,453	1,454	1,453	1,439	1,314	1,310	1,303	1,345	1,431
Civilian employed .....	64,266	64,188	64,412	64,408	64,337	64,327	63,798	63,604	63,532	63,802	63,443	63,405	63,389
Unemployed .....	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706	4,962	4,743	4,957	5,043	5,001
Unemployment rate <sup>4</sup> .....	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.7	7.1	6.8	7.1	7.2	7.2
Not in labor force .....	21,645	21,688	21,457	21,495	21,541	21,479	22,047	21,901	21,779	21,797	22,017	22,046	22,202
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	98,595	98,661	98,731	98,796	98,872	98,946	99,002	99,067	99,116	99,184	99,260	99,334	99,421
Labor force <sup>1</sup> .....	56,813	56,793	56,757	56,641	56,439	56,733	56,710	56,929	56,978	57,273	56,986	57,341	56,997
Percent of population <sup>2</sup> .....	57.6	57.6	57.5	57.3	57.1	57.3	57.3	57.5	57.5	57.7	57.4	57.7	57.3
Total employed <sup>1</sup> .....	53,781	53,667	53,631	53,481	53,211	53,410	53,287	53,477	53,368	53,742	53,303	53,639	53,496
Employment-population ratio <sup>3</sup> .....	54.5	54.4	54.3	54.1	53.8	54.0	53.8	54.0	53.8	54.2	53.7	54.0	53.8
Resident Armed Forces .....	165	165	160	156	162	163	162	163	146	146	155	160	173
Civilian employed .....	53,616	53,502	53,471	53,325	53,049	53,247	53,125	53,314	53,222	53,596	53,148	53,479	53,323
Unemployed .....	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452	3,610	3,531	3,683	3,702	3,500
Unemployment rate <sup>4</sup> .....	5.3	5.5	5.5	5.6	5.7	5.9	6.0	6.1	6.3	6.2	6.5	6.5	6.1
Not in labor force .....	41,782	41,868	41,974	42,155	42,433	42,213	42,292	42,138	42,138	41,911	42,274	41,993	42,424

<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.



**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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	160,468	160,550	160,640	160,717	160,831	160,942	161,007	161,097	161,179	161,264	161,357	161,449	161,558
Civilian labor force .....	107,196	107,166	107,391	107,277	107,048	107,517	106,962	107,432	107,488	107,678	107,491	107,745	107,382
Percent of population .....	66.8	66.7	66.9	66.7	66.6	66.8	66.4	66.7	66.7	66.8	66.6	66.7	66.5
Employed .....	102,189	101,996	102,192	102,017	101,648	101,843	101,104	101,141	100,870	101,455	100,944	101,046	100,760
Employment-population ratio <sup>2</sup> .....	63.7	63.5	63.6	63.5	63.2	63.3	62.8	62.8	62.6	62.9	62.6	62.6	62.4
Unemployed .....	5,007	5,170	5,199	5,260	5,400	5,674	5,858	6,291	6,617	6,223	6,547	6,699	6,622
Unemployment rate .....	4.7	4.8	4.8	4.9	5.0	5.3	5.5	5.9	6.2	5.8	6.1	6.2	6.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	55,909	56,040	56,119	56,123	56,174	56,307	55,836	56,000	56,151	56,310	56,210	56,267	56,344
Percent of population .....	78.2	78.3	78.3	78.3	78.3	78.3	77.6	77.8	77.9	78.1	77.9	77.9	77.9
Employed .....	53,566	53,601	53,675	53,615	53,564	53,497	53,010	52,801	52,828	53,179	53,025	52,962	52,960
Employment-population ratio <sup>2</sup> .....	74.9	74.9	74.9	74.8	74.6	74.4	73.7	73.3	73.3	73.7	73.5	73.3	73.2
Unemployed .....	2,343	2,439	2,444	2,508	2,610	2,810	2,826	3,198	3,323	3,131	3,185	3,304	3,385
Unemployment rate .....	4.2	4.4	4.4	4.5	4.6	5.0	5.1	5.7	5.9	5.6	5.7	5.9	6.0
<b>Women, 20 years and over</b>													
Civilian labor force .....	45,039	45,060	44,984	44,918	44,711	44,995	44,888	45,211	45,186	45,304	45,242	45,572	45,316
Percent of population .....	57.8	57.8	57.7	57.6	57.2	57.6	57.4	57.8	57.7	57.8	57.7	58.0	57.7
Employed .....	43,229	43,194	43,101	43,032	42,768	43,001	42,841	43,019	42,892	43,169	42,932	43,213	43,137
Employment-population ratio <sup>2</sup> .....	55.5	55.4	55.3	55.1	54.8	55.0	54.8	55.0	54.8	55.1	54.7	55.0	54.9
Unemployed .....	1,810	1,866	1,883	1,886	1,943	1,994	2,047	2,192	2,294	2,136	2,310	2,360	2,179
Unemployment rate .....	4.0	4.1	4.2	4.2	4.3	4.4	4.6	4.8	5.1	4.7	5.1	5.2	4.8
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,248	6,066	6,288	6,236	6,163	6,215	6,238	6,222	6,151	6,064	6,039	5,906	5,722
Percent of population .....	56.4	54.9	57.1	56.9	56.3	57.0	57.4	57.5	57.1	56.4	56.3	55.3	53.7
Employed .....	5,394	5,201	5,416	5,370	5,316	5,345	5,253	5,321	5,150	5,108	4,987	4,871	4,663
Employment-population ratio <sup>2</sup> .....	48.7	47.1	49.2	49.0	48.6	49.0	48.3	49.2	47.8	47.5	46.5	45.6	43.7
Unemployed .....	854	865	872	866	847	870	985	901	1,001	956	1,052	1,035	1,059
Unemployment rate .....	13.7	14.3	13.9	13.9	13.7	14.0	15.8	14.5	16.3	15.8	17.4	17.5	18.5
Men .....	14.9	15.4	15.0	14.7	14.9	14.9	15.8	15.4	18.6	16.9	19.3	19.9	20.0
Women .....	12.4	13.1	12.6	13.0	12.5	13.0	15.8	13.4	13.7	14.7	15.4	14.9	16.8
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	21,318	21,337	21,361	21,383	21,417	21,448	21,470	21,493	21,516	21,541	21,569	21,595	21,631
Civilian labor force .....	13,406	13,401	13,476	13,493	13,550	13,486	13,501	13,421	13,610	13,670	13,472	13,613	13,516
Percent of population .....	62.9	62.8	63.1	63.1	63.3	62.9	62.9	62.4	63.3	63.5	62.5	63.0	62.5
Employed .....	11,884	11,838	11,869	11,913	11,897	11,836	11,866	11,839	11,934	11,948	11,727	11,837	11,922
Employment-population ratio <sup>2</sup> .....	55.7	55.5	55.6	55.7	55.5	55.2	55.3	55.1	55.5	55.5	54.4	54.8	55.1
Unemployed .....	1,522	1,563	1,607	1,580	1,653	1,650	1,635	1,582	1,675	1,722	1,745	1,777	1,595
Unemployment rate .....	11.4	11.7	11.9	11.7	12.2	12.2	12.1	11.8	12.3	12.6	13.0	13.1	11.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,292	6,260	6,324	6,339	6,348	6,359	6,313	6,366	6,395	6,416	6,265	6,399	6,379
Percent of population .....	73.9	73.4	74.1	74.1	74.3	74.1	73.5	73.9	74.1	74.2	72.6	73.9	73.5
Employed .....	5,618	5,594	5,597	5,635	5,638	5,664	5,602	5,649	5,672	5,647	5,475	5,584	5,638
Employment-population ratio <sup>2</sup> .....	65.9	65.6	65.5	65.9	66.0	66.0	65.2	65.6	65.7	65.3	63.5	64.5	64.9
Unemployed .....	674	666	727	704	710	695	712	717	723	769	790	815	741
Unemployment rate .....	10.7	10.6	11.5	11.1	11.2	10.9	11.3	11.3	11.3	12.0	12.6	12.7	11.6
<b>Women, 20 years and over</b>													
Civilian labor force .....	6,336	6,358	6,362	6,345	6,365	6,339	6,374	6,286	6,388	6,476	6,459	6,483	6,418
Percent of population .....	59.5	59.6	59.5	59.3	59.4	59.0	59.3	58.4	59.2	60.0	59.7	59.8	59.2
Employed .....	5,738	5,733	5,716	5,728	5,717	5,668	5,738	5,694	5,755	5,612	5,755	5,768	5,813
Employment-population ratio <sup>2</sup> .....	53.9	53.7	53.5	53.5	53.3	52.8	53.4	52.9	53.4	53.8	53.2	53.2	53.6
Unemployed .....	598	625	646	617	648	671	636	593	633	664	705	715	605
Unemployment rate .....	9.4	9.8	10.2	9.7	10.2	10.6	10.0	9.4	9.9	10.3	10.9	11.0	9.4

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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	778	783	790	809	837	788	814	769	826	779	747	732	719
Percent of population .....	36.3	36.6	37.0	38.0	38.9	36.9	38.4	36.4	39.2	37.1	35.1	34.8	34.3
Employed .....	528	511	556	550	542	504	526	497	507	490	497	485	470
Employment-population ratio <sup>2</sup> .....	24.6	23.9	26.0	25.8	25.2	23.6	24.8	23.5	24.1	23.3	23.3	23.0	22.4
Unemployed .....	250	272	234	259	295	284	288	272	319	289	250	247	249
Unemployment rate .....	32.1	34.7	29.6	32.0	35.2	36.0	35.4	35.4	38.6	37.1	33.5	33.7	34.6
Men .....	33.1	36.7	31.4	31.3	33.2	36.4	34.6	35.5	38.4	38.4	36.7	37.4	31.8
Women .....	31.1	32.7	27.6	32.7	37.5	35.6	36.1	35.2	38.9	35.7	30.1	28.9	37.4
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,317	14,356	14,396	14,435	14,474	14,514	14,553	14,593	14,632	14,672	14,711	14,751	14,790
Civilian labor force .....	9,638	9,665	9,632	9,580	9,500	9,569	9,675	9,578	9,696	9,739	9,695	9,737	9,834
Percent of population .....	67.3	67.3	66.9	66.4	65.6	65.9	66.5	65.6	66.3	66.4	65.9	66.0	66.5
Employed .....	8,875	8,904	8,809	8,793	8,683	8,676	8,779	8,664	8,700	8,859	8,756	8,781	8,903
Employment-population ratio <sup>2</sup> .....	62.0	62.0	61.2	60.9	60.0	59.8	60.3	59.4	59.5	60.4	59.5	59.5	60.2
Unemployed .....	763	761	823	787	817	893	896	914	997	880	939	956	931
Unemployment rate .....	7.9	7.9	8.5	8.2	8.6	9.3	9.3	9.5	10.3	9.0	9.7	9.8	9.5

<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.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Category	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>CHARACTERISTIC</b>													
Total .....	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	116,754	117,398	116,591	116,884	116,712
Married men, spouse present .....	40,601	40,661	40,833	40,833	40,844	40,728	40,316	40,482	40,296	40,502	40,280	40,337	40,503
Married women, spouse present .....	29,862	29,869	29,797	29,789	29,713	29,776	29,599	29,680	29,514	29,762	29,608	29,877	29,993
Women who maintain families .....	6,376	6,372	6,376	6,354	6,341	6,367	6,386	6,384	6,470	6,371	6,350	6,520	6,489
<b>OCCUPATION</b>													
Managerial and professional specialty .....	30,758	30,913	30,572	30,714	30,732	30,777	30,699	31,093	30,764	30,990	30,908	30,842	30,926
Technical, sales, and administrative support .....	36,499	36,009	36,541	36,447	36,380	36,242	36,360	36,100	36,265	36,515	36,233	36,283	35,891
Service occupations .....	15,917	15,847	15,889	15,880	15,861	15,904	15,746	15,773	15,948	15,882	15,793	16,142	16,138
Precision production, craft, and repair .....	13,697	13,586	13,604	13,547	13,428	13,524	13,399	13,333	13,212	13,197	13,181	13,207	13,057
Operators, fabricators, and laborers .....	17,698	17,852	17,814	17,858	17,752	17,695	17,227	16,997	17,051	17,150	17,188	16,974	17,184
Farming, forestry, and fishing .....	3,384	3,448	3,449	3,376	3,360	3,436	3,437	3,499	3,387	3,464	3,451	3,502	3,540
<b>INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,665	1,705	1,752	1,714	1,681	1,671	1,603	1,629	1,556	1,660	1,703	1,748	1,678
Self-employed workers .....	1,382	1,364	1,293	1,350	1,386	1,473	1,396	1,448	1,412	1,450	1,421	1,431	1,497
Unpaid family workers .....	100	97	108	99	116	102	157	168	134	95	117	115	120
Nonagricultural industries:													
Wage and salary workers .....	105,783	105,627	105,686	105,384	105,267	105,095	104,698	104,569	104,455	104,697	104,613	104,345	104,422
Government .....	17,785	17,798	17,597	17,694	17,633	17,640	17,680	17,792	17,829	18,064	17,904	17,898	17,969
Private industries .....	87,998	87,829	88,089	87,690	87,634	87,455	87,018	86,777	86,626	86,633	86,709	86,447	86,453
Private households .....	1,003	1,021	1,067	1,017	992	1,013	967	953	980	943	934	1,005	1,113
Other industries .....	86,995	86,808	87,022	86,673	86,642	86,442	86,051	85,824	85,646	85,690	85,775	85,441	85,340
Self-employed workers .....	8,725	8,646	8,809	8,859	8,800	8,896	8,738	8,876	8,926	9,209	8,732	8,968	8,860
Unpaid family workers .....	258	236	238	250	255	238	232	239	224	213	206	260	229
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,001	5,092	5,301	5,409	5,438	5,581	5,510	6,062	6,163	6,162	5,932	5,705	5,881
Slack work .....	2,570	2,491	2,658	2,663	2,786	2,928	2,908	3,252	3,303	3,383	3,138	3,146	3,091
Could only find part-time work .....	2,120	2,153	2,408	2,344	2,340	2,302	2,214	2,401	2,494	2,462	2,556	2,325	2,505
Voluntary part time .....	15,263	15,317	15,250	15,129	15,048	15,081	14,833	14,971	14,819	15,027	14,876	15,598	15,208
Nonagricultural industries:													
Part time for economic reasons .....	4,780	4,830	5,051	5,135	5,163	5,262	5,178	5,803	5,889	5,956	5,702	5,425	5,605
Slack work .....	2,399	2,290	2,482	2,467	2,625	2,742	2,692	3,067	3,107	3,181	2,971	2,964	2,915
Could only find part-time work .....	2,102	2,084	2,333	2,281	2,262	2,218	2,133	2,349	2,404	2,403	2,463	2,229	2,435
Voluntary part time .....	14,853	14,861	14,823	14,715	14,658	14,650	14,461	14,528	14,452	14,641	14,377	15,168	14,737

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

(Civilian workers)

Sex and age	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over .....	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5	6.8	6.6	6.9	7.0	6.8
16 to 24 years .....	11.0	11.4	11.5	11.7	11.6	11.7	12.4	12.8	13.2	12.8	13.8	13.8	14.3
16 to 19 years .....	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1	18.7	18.1	19.1	19.2	20.6
16 to 17 years .....	17.6	18.8	18.4	18.7	16.6	19.1	19.6	16.9	20.9	21.2	20.4	20.2	24.0
18 to 19 years .....	14.5	14.9	14.5	14.6	15.0	15.0	16.7	16.9	17.5	16.3	18.9	18.6	18.0
20 to 24 years .....	8.5	8.8	9.3	9.4	9.1	9.2	9.5	10.5	10.3	10.1	11.2	11.1	11.2
25 years and over .....	4.3	4.4	4.5	4.5	4.7	5.0	5.0	5.3	5.6	5.4	5.5	5.6	5.3
25 to 54 years .....	4.5	4.6	4.7	4.6	5.0	5.3	5.2	5.6	5.8	5.7	5.7	5.8	5.6
55 years and over .....	3.2	3.4	3.3	3.5	3.3	3.3	3.4	3.8	4.2	3.8	4.1	4.5	4.0
Men, 16 years and over .....	5.6	5.7	5.8	5.8	6.0	6.2	6.3	6.9	7.2	6.9	7.2	7.4	7.3
16 to 24 years .....	11.5	11.7	11.9	12.0	12.1	12.3	13.2	13.8	14.9	14.3	14.5	15.1	15.4
16 to 19 years .....	16.8	17.6	16.8	16.7	17.1	17.4	18.2	17.7	20.7	19.3	21.1	21.7	21.7
16 to 17 years .....	18.6	20.7	18.9	18.4	19.2	20.1	18.7	19.1	25.0	22.0	21.2	20.5	24.1
18 to 19 years .....	15.5	15.7	16.0	15.8	15.8	15.7	16.8	16.8	18.2	17.7	21.7	22.3	19.2
20 to 24 years .....	8.8	8.6	9.4	9.6	9.5	9.6	10.7	11.8	11.8	11.9	11.2	11.9	12.5
25 years and over .....	4.4	4.5	4.6	4.6	4.8	5.1	5.1	5.6	5.8	5.6	5.8	5.9	5.7
25 to 54 years .....	4.6	4.6	4.7	4.7	5.0	5.4	5.2	5.9	6.1	5.9	6.1	5.9	6.0
55 years and over .....	3.6	3.8	3.8	3.9	3.8	3.6	3.7	4.2	4.6	4.4	4.7	4.7	4.7
Women, 16 years and over .....	5.4	5.5	5.5	5.6	5.7	5.9	6.1	6.1	6.4	6.2	6.5	6.5	6.2
16 to 24 years .....	10.4	11.2	11.0	11.4	11.0	11.1	11.6	11.7	11.4	11.2	13.1	12.4	13.0
16 to 19 years .....	14.7	15.4	14.4	15.6	15.6	15.6	18.1	16.4	16.6	16.9	16.9	16.4	19.4
16 to 17 years .....	16.6	16.9	17.8	18.9	17.8	17.9	20.7	14.4	16.3	20.4	19.5	19.9	23.9
18 to 19 years .....	13.5	14.0	12.9	13.4	14.2	14.2	16.7	17.1	16.8	14.9	15.8	14.6	16.7
20 to 24 years .....	8.1	9.0	9.2	9.2	8.6	8.7	8.1	9.1	6.6	8.1	11.1	10.3	9.8
25 years and over .....	4.2	4.3	4.4	4.3	4.6	4.8	4.9	4.9	5.3	5.2	5.1	5.3	4.8
25 to 54 years .....	4.5	4.5	4.6	4.5	4.9	5.1	5.2	5.2	5.6	5.5	5.4	5.5	5.0
55 years and over .....	2.6	2.9	2.7	2.9	2.7	2.8	2.9	3.3	3.6	3.0	3.3	4.2	3.1

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5	6.8	6.6	6.9	7.0	6.8
Men, 20 years and over .....	4.9	5.0	5.1	5.2	5.4	5.6	5.6	6.3	6.5	6.2	6.5	6.6	6.5
Women, 20 years and over .....	4.7	4.9	4.9	4.9	5.1	5.3	5.3	5.4	5.7	5.5	5.8	5.9	5.4
Both sexes, 16 to 19 years .....	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1	18.7	18.1	19.1	19.2	20.6
White .....	4.7	4.8	4.8	4.9	5.0	5.3	5.5	5.9	6.2	5.8	6.1	6.2	6.2
Black and other .....	10.3	10.4	10.8	10.6	11.0	11.1	10.7	10.7	11.1	11.2	11.5	11.4	10.5
Black .....	11.4	11.7	11.9	11.7	12.2	12.2	12.1	11.8	12.3	12.6	13.0	13.1	11.8
Hispanic origin .....	7.9	7.9	8.5	8.2	8.6	9.3	9.3	9.5	10.3	9.0	9.7	9.8	9.5
Married men, spouse present .....	3.3	3.5	3.5	3.5	3.7	3.8	4.0	4.3	4.5	4.4	4.4	4.7	4.3
Married women, spouse present .....	3.6	3.9	3.9	3.9	4.1	4.1	4.1	4.4	4.8	4.5	4.6	4.7	4.3
Women who maintain families .....	8.3	8.4	8.7	8.5	8.7	8.7	9.0	9.1	9.0	9.9	9.1	9.2	8.3
Full-time workers .....	5.1	5.3	5.4	5.5	5.7	5.8	6.0	6.4	6.5	6.3	6.5	6.6	6.5
Part-time workers .....	7.8	7.7	7.2	7.1	7.3	7.6	7.7	7.6	9.1	8.1	9.0	8.6	8.3
Unemployed 15 weeks and over <sup>1</sup> .....	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	2.0	1.9
Labor force time lost <sup>2</sup> .....	6.1	6.3	6.4	6.6	6.7	6.9	7.0	7.5	7.7	7.6	7.7	7.6	7.5
<b>OCCUPATION<sup>3</sup></b>													
Managerial and professional specialty .....	2.1	2.2	2.3	2.2	2.2	2.2	2.7	2.4	2.7	2.6	3.0	2.8	2.9
Technical, sales, and administrative support .....	4.1	4.3	4.3	4.4	4.6	4.8	4.5	5.0	5.3	5.2	5.3	5.2	4.9
Precision production, craft, and repair .....	5.7	6.2	6.5	6.5	6.9	7.0	7.3	7.6	7.6	7.8	8.0	7.8	8.5
Operators, fabricators, and laborers .....	8.2	8.3	8.2	8.9	9.4	9.6	10.0	11.6	11.2	10.8	10.2	11.5	10.6
Farming, forestry, and fishing .....	6.8	6.3	6.2	5.5	6.2	6.9	7.6	7.9	9.1	6.5	7.1	7.6	6.7
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.5	5.7	5.8	5.9	6.2	6.3	6.4	6.9	7.2	7.0	7.2	7.4	7.1
Goods-producing industries .....	6.7	6.9	7.1	7.3	7.9	8.1	8.2	9.1	9.0	9.2	9.0	9.7	9.1
Mining .....	4.5	4.7	3.8	4.1	4.7	5.8	7.5	6.0	7.1	7.5	6.4	8.5	8.7
Construction .....	10.5	11.2	12.0	13.0	13.3	14.0	14.5	15.5	14.1	15.0	14.7	15.6	16.7
Manufacturing .....	5.7	5.8	5.8	5.8	6.5	6.5	6.4	7.4	7.6	7.6	7.4	8.2	7.0
Durable goods .....	5.7	5.9	6.0	5.9	6.9	6.6	6.8	8.1	8.2	8.3	7.7	8.4	7.1
Nondurable goods .....	5.7	5.6	5.4	5.7	5.9	6.4	5.9	6.5	6.8	6.6	7.0	7.9	6.9
Service-producing industries .....	5.0	5.2	5.3	5.3	5.4	5.4	5.6	5.9	6.4	6.0	6.4	6.3	6.2
Transportation and public utilities .....	3.7	4.0	3.9	4.1	4.1	4.2	4.4	5.3	5.5	5.4	5.5	5.4	5.1
Wholesale and retail trade .....	6.1	6.3	6.6	6.7	6.7	6.6	7.0	7.4	7.9	7.3	7.7	7.6	8.1
Finance and service industries .....	4.5	4.7	4.7	4.5	4.7	4.8	4.9	5.0	5.6	5.2	5.7	5.7	5.1
Government workers .....	2.8	2.8	2.8	2.8	2.8	2.7	3.0	3.2	3.7	3.2	3.2	2.8	2.8
Agricultural wage and salary workers .....	10.1	9.5	9.3	8.5	9.8	12.3	11.9	11.5	13.8	9.9	11.2	12.2	11.5

<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.

<sup>3</sup> Seasonally adjusted data for service occupations are not available because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Weeks of unemployment	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>DURATION</b>													
Less than 5 weeks .....	3,142	3,275	3,087	3,139	3,277	3,280	3,410	3,473	3,515	3,287	3,654	3,427	3,368
5 to 14 weeks .....	2,166	2,077	2,452	2,391	2,334	2,518	2,490	2,736	2,904	2,745	2,717	2,862	2,722
15 weeks and over .....	1,508	1,568	1,605	1,591	1,727	1,739	1,829	1,975	2,184	2,229	2,234	2,573	2,348
15 to 26 weeks .....	807	822	861	893	938	940	981	1,053	1,236	1,226	1,206	1,411	1,215
27 weeks and over .....	701	746	744	698	789	799	848	921	947	1,003	1,028	1,162	1,132
Average (mean) duration, in weeks .....	12.1	12.3	12.4	12.0	12.4	12.4	12.4	12.8	13.0	13.7	12.9	14.2	13.9
Median duration, in weeks .....	5.2	5.3	6.1	5.9	5.9	5.9	5.9	6.1	6.6	7.0	6.5	6.9	6.6
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	48.1	47.3	43.2	44.1	44.7	43.5	44.1	42.4	40.9	39.8	42.5	38.7	39.9
5 to 14 weeks .....	31.8	30.0	34.3	33.6	31.8	33.4	32.2	33.4	33.6	33.2	31.6	32.3	32.3
15 weeks and over .....	22.1	22.7	22.5	22.3	23.5	23.1	23.7	24.1	25.4	27.0	26.0	29.0	27.8
15 to 26 weeks .....	11.8	11.9	12.1	12.5	12.8	12.5	12.7	12.9	14.4	14.8	14.0	15.9	14.4
27 weeks and over .....	10.3	10.8	10.4	9.8	10.8	10.6	11.0	11.3	11.0	12.1	11.9	13.1	13.4

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

(Numbers in thousands)

Reasons for unemployment	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,145	3,388	3,519	3,563	3,756	3,797	4,068	4,515	4,703	4,528	4,657	4,869	4,596
On layoff .....	977	993	1,111	1,056	1,136	1,150	1,131	1,485	1,430	1,370	1,343	1,389	1,188
Other job losers .....	2,166	2,395	2,408	2,507	2,620	2,647	2,938	3,031	3,273	3,158	3,314	3,481	3,408
Job leavers .....	1,020	989	954	981	996	1,024	899	989	1,080	987	1,053	1,090	990
Reentrants .....	1,920	1,872	1,952	1,911	1,926	2,128	2,044	1,994	2,090	2,053	2,202	2,143	2,047
New entrants .....	677	869	683	684	655	682	672	633	699	741	779	741	821
<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 .....	46.5	49.0	49.6	49.9	51.2	49.9	53.0	55.5	54.9	54.5	53.6	55.1	54.4
On layoff .....	14.4	14.4	15.7	14.8	15.5	15.1	14.7	18.3	16.7	16.5	15.5	15.7	14.1
Other job losers .....	32.1	34.6	34.0	35.1	35.7	34.8	38.2	37.3	38.2	38.0	38.1	39.4	40.3
Job leavers .....	15.1	14.3	13.5	13.7	13.6	13.5	11.7	12.2	12.6	11.9	12.1	12.3	11.7
Reentrants .....	28.4	27.1	27.5	26.8	26.3	28.0	28.6	24.5	24.4	24.7	25.3	24.2	24.2
New entrants .....	10.0	9.7	9.4	9.6	8.9	8.7	8.7	7.8	8.2	8.9	9.0	8.4	9.7
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.5	2.7	2.8	2.9	3.0	3.0	3.3	3.6	3.8	3.6	3.7	3.9	3.7
Job leavers .....	.8	.8	.8	.8	.8	.8	.7	.8	.9	.8	.8	.9	.8
Reentrants .....	1.5	1.5	1.8	1.5	1.5	1.7	1.6	1.6	1.7	1.6	1.8	1.7	1.6
New entrants .....	.5	.5	.5	.5	.5	.5	.5	.5	.6	.6	.6	.6	.7



**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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Total</b> .....		111,405	110,045	109,304	109,819	108,562	-	-	-	-	-
<b>Total private</b> .....		92,754	92,559	90,493	91,307	91,105	75,254	75,052	73,188	73,947	73,735
<b>Mining</b> .....		723	726	705	709	712	520	522	503	505	506
Metal mining .....	10	60.4	60.7	59.6	60.5	-	48.1	48.3	46.7	47.5	-
Iron ores .....	101	9.3	9.5	9.0	9.1	-	7.7	7.9	6.9	7.0	-
Copper ores .....	102	15.3	14.8	15.7	16.0	-	12.5	12.0	12.9	13.1	-
Coal mining .....	12	150.3	149.7	140.4	138.8	-	122.1	120.9	113.2	111.9	-
Bituminous coal and lignite mining .....	122	140.5	139.9	130.9	129.4	-	114.1	112.9	105.6	104.3	-
Oil and gas extraction .....	13	397.1	400.5	395.1	398.2	399.8	261.7	264.9	260.4	261.2	-
Crude petroleum and natural gas .....	131	194.0	195.2	190.3	193.2	-	93.9	94.7	94.8	96.2	-
Oil and gas field services .....	138	198.7	201.0	200.3	200.5	-	164.4	166.8	162.4	161.9	-
Nonmetallic minerals, except fuels .....	14	115.5	115.5	109.6	111.4	-	88.2	87.9	82.8	84.1	-
Crushed and broken stone .....	142	43.1	42.9	40.9	41.4	-	33.8	33.4	31.3	31.7	-
Sand and gravel .....	144	35.5	35.9	33.4	34.1	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	16.8	16.7	16.1	16.6	-	-	-	-	-	-
<b>Construction</b> .....		5,388	5,446	4,748	4,897	4,964	4,222	4,278	3,627	3,768	3,834
General building contractors .....	15	1,367.2	1,377.1	1,173.0	1,211.6	1,226.9	1,000.6	1,010.8	833.6	868.9	-
Residential building construction .....	152	684.2	689.1	587.9	609.0	-	486.1	491.6	407.0	425.3	-
Operative builders .....	153	39.5	39.8	31.9	32.2	-	17.0	17.2	12.3	12.5	-
Nonresidential building construction .....	154	643.5	648.2	553.2	570.4	-	497.5	502.0	414.3	431.1	-
Heavy construction, except building .....	16	820.3	825.8	737.1	756.1	-	693.2	697.5	615.1	632.5	-
Highway and street construction .....	161	279.3	286.8	247.8	266.6	-	237.7	244.4	207.0	224.9	-
Heavy construction, except highway .....	162	541.0	539.0	489.3	489.5	-	455.5	453.1	408.1	407.6	-
Special trade contractors .....	17	3,200.2	3,243.4	2,837.7	2,928.9	-	2,528.3	2,570.1	2,178.1	2,266.5	-
Plumbing, heating, and air conditioning .....	171	665.8	675.9	607.9	622.7	-	490.2	499.5	438.1	451.8	-
Painting and paper hanging .....	172	189.7	196.0	164.8	175.0	-	159.3	164.3	134.5	143.8	-
Electrical work .....	173	560.3	569.9	518.5	531.4	-	435.2	445.5	392.2	404.8	-
Masonry, stonework, and plastering .....	174	512.6	520.9	428.2	447.3	-	442.0	449.3	361.4	379.5	-
Carpentry and floor work .....	175	206.0	205.0	171.9	178.9	-	156.7	156.7	126.7	133.4	-
Roofing, siding, and sheet metal work .....	176	219.5	224.0	195.6	203.2	-	175.8	180.4	152.8	160.2	-
<b>Manufacturing</b> .....		19,306	19,115	18,376	18,487	18,348	13,131	12,956	12,389	12,495	12,377
<b>Durable goods</b> .....		11,261	11,118	10,576	10,603	10,495	7,491	7,361	6,969	7,002	6,908
Lumber and wood products .....	24	760.4	759.9	694.8	709.8	713.6	627.6	626.9	568.2	582.4	586.1
Logging .....	241	87.6	89.9	76.0	80.7	-	72.5	74.8	61.6	66.0	-
Sawmills and planing mills .....	242	203.8	203.2	190.2	192.8	-	177.6	177.2	164.3	166.8	-
Sawmills and planing mills, general .....	2421	165.1	164.6	153.4	155.9	-	143.7	143.3	132.3	134.5	-
Hardwood dimension and flooring mills .....	2426	35.8	35.6	33.8	34.0	-	31.5	31.4	29.5	29.8	-
Millwork, plywood, and structural members .....	243	273.7	272.5	244.6	251.1	-	221.0	219.9	195.4	201.4	-
Millwork .....	2431	111.6	110.6	100.1	104.6	-	87.8	87.0	77.2	81.4	-
Wood kitchen cabinets .....	2434	75.2	74.7	67.8	67.9	-	59.9	59.5	53.6	53.7	-
Hardwood veneer and plywood .....	2435	24.4	24.1	21.4	21.7	-	21.0	20.6	18.4	18.7	-
Softwood veneer and plywood .....	2436	33.9	33.8	30.8	31.7	-	30.4	30.3	27.5	28.3	-
Wood containers .....	244	46.5	46.5	43.8	44.5	-	39.3	39.2	36.8	37.5	-
Wood buildings and mobile homes .....	245	62.5	62.7	59.4	60.0	-	47.3	47.2	44.9	45.6	-
Mobile homes .....	2451	42.3	43.1	41.5	42.0	-	34.3	35.0	33.4	33.8	-
Miscellaneous wood products .....	249	86.3	85.1	80.8	80.7	-	69.9	68.6	65.2	65.1	-
Furniture and fixtures .....	25	513.1	500.4	480.5	481.9	471.9	405.4	394.0	375.6	378.5	369.4
Household furniture .....	251	292.0	281.4	276.4	275.6	-	243.8	233.9	229.0	228.9	-
Wood household furniture .....	2511	128.5	123.1	121.8	121.2	-	110.5	105.1	103.9	103.5	-
Upholstered household furniture .....	2512	97.6	95.4	92.1	92.7	-	81.4	79.6	76.0	76.9	-
Metal household furniture .....	2514	24.2	22.1	23.5	22.6	-	19.4	17.3	18.7	18.0	-
Mattresses and bedsprings .....	2515	29.1	28.7	27.9	27.9	-	22.2	22.0	21.4	21.4	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures—Continued											
Office furniture .....	252	68.5	68.5	63.6	63.3	-	51.0	51.2	46.1	46.7	-
Public building and related furniture .....	253	33.8	31.9	30.4	31.2	-	26.2	24.5	23.7	24.3	-
Partitions and fixtures .....	254	80.8	80.9	76.2	77.4	-	58.4	56.6	54.4	55.7	-
Miscellaneous furniture and fixtures .....	259	38.0	37.7	33.9	34.4	-	26.0	25.8	22.4	22.9	-
Stone, clay, and glass products .....	32	571.0	564.5	522.8	528.9	524.9	444.9	439.0	403.4	408.7	405.1
Flat glass .....	321	16.8	16.7	14.5	14.4	-	13.3	13.1	11.4	11.2	-
Glass and glassware, pressed or blown .....	322	83.5	81.7	79.4	80.0	-	71.9	70.1	68.4	68.8	-
Glass containers .....	3221	40.6	40.0	38.2	39.1	-	36.6	36.1	34.6	35.4	-
Pressed and blown glass, nec .....	3229	42.9	41.7	41.2	40.9	-	35.3	34.0	33.8	33.4	-
Products of purchased glass .....	323	60.5	59.1	55.7	55.8	-	46.2	44.8	42.1	42.3	-
Cement, hydraulic .....	324	18.5	18.6	18.0	18.7	-	14.3	14.4	13.8	14.3	-
Structural clay products .....	325	37.1	36.5	32.4	32.7	-	28.9	28.2	24.7	25.0	-
Pottery and related products .....	326	39.0	38.1	36.0	36.6	-	30.6	29.9	28.0	28.6	-
Concrete, gypsum, and plaster products .....	327	216.1	215.3	195.8	198.7	-	165.5	165.3	147.5	150.5	-
Concrete block and brick .....	3271	21.1	20.8	18.7	18.9	-	13.8	13.6	11.7	11.8	-
Concrete products, nec .....	3272	73.1	72.7	65.8	66.9	-	54.9	54.8	48.9	50.2	-
Ready-mixed concrete .....	3273	102.9	102.7	94.0	95.7	-	82.2	82.2	73.7	75.3	-
Misc. nonmetallic mineral products .....	329	83.4	82.8	76.7	77.5	-	62.0	61.4	56.9	57.5	-
Abrasive products .....	3291	21.8	21.5	20.1	20.3	-	15.5	15.3	14.8	14.9	-
Asbestos products .....	3292	6.8	6.8	5.9	6.0	-	5.1	5.2	4.5	4.6	-
Mineral wool .....	3296	24.3	24.1	22.2	22.6	-	-	-	-	-	-
Primary metal industries .....	33	763.6	755.0	720.4	722.5	713.0	581.1	572.7	543.1	544.4	534.6
Blast furnaces and basic steel products .....	331	277.2	277.5	260.5	261.0	259.6	212.9	213.1	198.2	198.4	196.3
Blast furnaces and steel mills .....	3312	208.6	209.6	196.0	196.0	-	161.8	162.4	150.5	150.2	-
Steel pipe and tubes .....	3317	25.7	25.6	24.2	24.7	-	19.2	19.1	17.8	18.1	-
Iron and steel foundries .....	332	134.4	131.3	127.0	126.8	-	107.1	104.1	100.3	100.4	-
Gray and ductile iron foundries .....	3321	81.9	79.7	76.2	76.3	-	66.9	64.6	61.4	61.8	-
Malleable iron foundries .....	3322	9.0	8.3	8.4	8.4	-	6.9	6.2	6.0	6.1	-
Steel foundries, nec .....	3325	27.9	27.7	26.4	26.2	-	21.8	21.6	20.5	20.3	-
Primary nonferrous metals .....	333	46.5	46.7	45.4	45.7	-	34.1	34.3	34.2	34.4	-
Primary aluminum .....	3334	26.2	26.2	25.9	26.0	-	19.8	19.8	20.5	20.6	-
Nonferrous rolling and drawing .....	335	173.9	170.7	165.6	166.5	-	125.8	122.6	118.2	118.4	-
Copper rolling and drawing .....	3351	23.1	22.5	21.6	21.8	-	17.6	17.0	16.5	16.6	-
Aluminum sheet, plate, and foil .....	3353	28.6	28.6	28.1	28.1	-	19.4	19.3	18.7	18.5	-
Nonferrous wire drawing and insulating .....	3357	73.3	71.0	69.7	70.1	-	53.9	51.5	50.6	50.8	-
Nonferrous foundries (castings) .....	336	85.5	83.6	80.2	80.7	-	67.5	65.5	62.3	62.7	-
Aluminum foundries .....	3365	24.7	24.0	23.8	23.8	-	19.6	18.8	18.5	18.5	-
Fabricated metal products .....	34	1,437.0	1,417.7	1,352.9	1,362.9	1,344.8	1,060.3	1,042.5	989.2	997.0	978.1
Metal cans and shipping containers .....	341	51.4	51.2	49.2	49.3	-	44.1	44.0	42.6	42.6	-
Metal cans .....	3411	41.7	41.6	40.3	40.4	-	36.2	36.2	35.4	35.3	-
Cutlery, handtools, and hardware .....	342	132.6	130.6	121.5	121.8	-	97.4	95.4	88.6	89.0	-
Hand and edge tools, and blades and handsaws .....	3423,5	45.0	44.5	41.3	41.7	-	33.1	32.6	29.8	30.3	-
Hardware, nec .....	3429	75.6	74.3	68.9	68.9	-	56.1	54.8	51.1	51.1	-
Plumbing and heating, except electric .....	343	60.3	59.1	55.6	56.1	-	43.2	42.2	39.3	39.7	-
Plumbing fixture fittings and trim .....	3432	26.9	26.0	24.4	24.6	-	20.0	19.3	18.4	18.6	-
Heating equipment, except electric .....	3433	19.6	19.9	17.9	18.2	-	12.9	13.2	11.2	11.4	-
Fabricated structural metal products .....	344	429.9	430.0	407.1	411.7	-	306.0	305.9	284.8	289.0	-
Fabricated structural metal .....	3441	79.0	78.6	73.0	73.0	-	56.6	56.6	51.7	51.7	-
Metal doors, sash, and trim .....	3442	77.7	78.4	72.9	74.9	-	56.6	57.2	51.7	53.6	-
Fabricated plate work (boiler shops) .....	3443	106.5	106.7	104.0	104.6	-	71.7	71.6	69.0	69.6	-
Sheet metal work .....	3444	95.6	95.8	91.9	93.7	-	72.3	72.0	68.7	70.2	-
Architectural metal work .....	3446	29.6	29.7	26.5	26.8	-	21.1	21.2	18.3	18.5	-
Screw machine products, bolts, etc .....	345	97.1	94.8	90.9	91.2	-	74.4	72.4	69.1	69.2	-
Screw machine products .....	3451	46.4	45.5	43.4	43.5	-	37.6	36.9	35.0	35.1	-
Bolts, nuts, rivets, and washers .....	3452	50.7	49.3	47.5	47.7	-	36.8	35.5	34.1	34.1	-
Metal forgings and stampings .....	346	230.2	224.9	214.8	217.3	-	182.8	178.0	169.3	171.2	-
Iron and steel forgings .....	3462	33.3	32.5	32.4	32.1	-	25.5	24.7	24.5	24.4	-
Automotive stampings .....	3465	104.7	101.9	94.0	96.9	-	87.7	85.1	78.5	80.8	-
Metal stampings, nec .....	3469	80.4	78.8	77.4	77.4	-	60.8	59.5	58.2	58.0	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Metal services, nec .....	347	121.5	118.4	115.3	116.3	-	95.4	91.9	89.2	89.7	-
Plating and polishing .....	3471	76.9	74.2	71.6	72.0	-	60.7	57.8	55.4	55.4	-
Metal coating and allied services .....	3479	44.6	44.2	43.7	44.3	-	34.7	34.1	33.8	34.3	-
Ordnance and accessories, nec .....	348	74.8	74.3	70.1	69.7	-	46.3	46.3	44.1	43.2	-
Ammunition, except for small arms, nec .....	3483	45.1	44.6	41.8	41.6	-	25.1	25.0	23.9	23.3	-
Miscellaneous fabricated metal products .....	349	239.2	234.4	228.4	229.5	-	170.7	166.4	162.2	163.4	-
Valves and pipe fittings, nec .....	3494	28.9	28.2	27.8	27.7	-	18.5	18.0	19.0	19.1	-
Misc. fabricated wire products .....	3496	54.2	52.7	50.8	50.9	-	40.9	39.5	37.8	37.9	-
Industrial machinery and equipment .....	35	2,110.9	2,092.3	2,005.1	1,997.1	1,977.7	1,271.3	1,254.2	1,195.0	1,187.7	1,168.7
Engines and turbines .....	351	88.7	87.8	87.2	86.3	-	57.8	56.5	54.4	53.4	-
Turbines and turbine generator sets .....	3511	26.5	26.8	28.6	28.8	-	15.3	15.5	16.4	16.6	-
Internal combustion engines, nec .....	3519	62.2	61.0	58.6	57.5	-	42.5	41.0	38.0	36.8	-
Farm and garden machinery .....	352	107.0	103.2	102.7	99.5	-	78.6	74.5	74.9	72.0	-
Farm machinery and equipment .....	3523	80.0	79.0	75.4	75.2	-	57.5	56.2	54.1	54.0	-
Construction and related machinery .....	353	230.8	230.0	218.4	216.3	-	142.4	142.1	131.7	130.1	-
Construction machinery .....	3531	88.0	87.3	79.1	77.2	-	54.5	54.0	47.5	45.7	-
Mining machinery .....	3532	18.3	18.3	16.5	16.4	-	11.4	11.4	9.6	9.5	-
Oil and gas field machinery .....	3533	42.2	42.6	44.9	44.9	-	25.9	26.5	28.2	28.5	-
Conveyors and conveying equipment .....	3535	33.9	33.9	33.2	33.3	-	18.9	18.8	18.5	18.6	-
Industrial trucks and tractors .....	3537	28.3	28.0	25.8	25.6	-	19.3	19.1	16.9	16.7	-
Metalworking machinery .....	354	331.8	328.0	314.2	312.9	-	237.3	234.1	221.8	220.1	-
Machine tools, metal cutting types .....	3541	46.8	45.9	43.4	43.4	-	30.1	29.5	27.1	27.2	-
Machine tools, metal forming types .....	3542	18.1	17.9	16.7	16.5	-	11.3	11.2	10.2	10.0	-
Special dies, tools, jigs, and fixtures .....	3544	148.6	146.8	142.9	141.4	-	115.0	113.6	109.4	107.7	-
Machine tool accessories .....	3545	56.1	55.5	51.5	51.6	-	39.5	39.1	35.9	35.8	-
Power driven handtools .....	3546	21.3	20.6	20.0	20.4	-	14.7	14.0	13.6	13.9	-
Special industry machinery .....	355	160.7	159.5	148.8	148.6	-	94.7	93.5	85.5	85.0	-
Textile machinery .....	3552	18.3	18.2	16.8	16.8	-	12.1	12.0	11.0	11.0	-
Printing trades machinery .....	3555	25.6	25.5	24.3	24.2	-	14.0	14.0	12.7	12.4	-
Food products machinery .....	3556	23.8	23.6	21.4	21.3	-	14.4	14.1	12.5	12.4	-
General industrial machinery .....	356	250.3	248.9	242.1	241.5	-	159.9	158.4	153.2	152.8	-
Pumps and pumping equipment .....	3561	31.7	31.0	30.9	30.9	-	18.0	17.7	17.5	17.4	-
Ball and roller bearings .....	3562	43.3	43.3	41.8	41.6	-	33.5	33.4	32.3	32.3	-
Air and gas compressors .....	3563	26.7	26.6	25.9	25.9	-	15.1	15.0	14.2	14.1	-
Blowers and fans .....	3564	32.8	32.7	31.5	31.5	-	22.3	22.1	21.3	21.3	-
Speed changers, drives, and gears .....	3566	16.3	16.3	15.8	15.7	-	11.5	11.4	11.0	11.0	-
Power transmission equipment, nec .....	3568	19.5	19.6	18.6	18.5	-	13.2	13.1	12.2	12.1	-
Computer and office equipment .....	357	440.4	438.4	422.2	422.0	-	137.3	136.4	137.5	137.8	-
Electronic computers .....	3571	281.0	279.1	266.3	265.6	-	71.6	70.9	69.4	69.4	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	65.7	65.4	64.2	64.5	-	20.4	20.4	25.6	26.0	-
Refrigeration and service machinery .....	358	181.9	180.0	167.1	169.0	-	128.7	126.5	116.2	117.8	-
Refrigeration and heating equipment .....	3585	126.1	125.1	115.2	116.7	-	92.5	91.5	83.6	84.9	-
Misc. industrial and commercial machinery .....	359	319.3	316.5	302.4	301.0	-	234.6	232.2	219.8	218.7	-
Carburetors, pistons, rings, valves .....	3592	23.0	22.9	21.0	21.2	-	18.7	18.5	17.2	17.3	-
Scales, balances, and industrial machinery, nec .....	3596,9	247.9	245.7	236.3	235.1	-	188.0	186.1	176.7	175.8	-
Electronic and other electrical equipment .....	36	1,687.1	1,667.2	1,592.7	1,598.2	1,579.2	1,065.7	1,047.9	1,000.5	1,007.1	993.6
Electric distribution equipment .....	361	97.7	96.1	92.1	92.4	-	67.9	66.6	63.2	63.8	-
Transformers, except electronic .....	3612	49.6	48.0	47.1	47.1	-	35.0	33.5	33.3	33.5	-
Switchgear and switchboard apparatus .....	3613	48.1	48.1	45.0	45.3	-	32.9	33.1	29.9	30.3	-
Electrical industrial apparatus .....	362	171.0	167.7	160.6	161.4	-	120.3	117.0	111.6	112.6	-
Motors and generators .....	3621	84.4	82.0	78.5	79.4	-	65.8	63.6	60.1	61.0	-
Relays and industrial controls .....	3625	66.4	65.6	62.8	62.9	-	40.5	39.6	38.4	38.6	-
Household appliances .....	363	128.6	126.2	121.5	123.8	-	103.6	101.0	96.6	98.6	-
Household refrigerators and freezers .....	3632	29.5	29.7	28.6	29.2	-	24.4	24.5	23.3	23.8	-
Household laundry equipment .....	3633	21.2	21.1	20.1	20.2	-	16.9	16.7	15.9	16.0	-
Electric housewares and fans .....	3634	32.8	31.8	31.9	33.5	-	25.3	24.3	24.5	25.8	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Electronic and other electrical equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	190.5	187.1	176.5	176.2	-	137.2	134.2	126.2	126.0	-
Electric lamps .....	3641	24.5	24.3	22.8	22.6	-	20.7	20.6	19.2	19.0	-
Current-carrying wiring devices .....	3643	73.5	72.7	69.3	69.4	-	48.0	47.2	45.3	45.2	-
Noncurrent-carrying wiring devices .....	3644	17.4	16.9	15.4	15.3	-	12.9	12.2	10.9	11.0	-
Residential lighting fixtures .....	3645	23.1	22.3	20.8	20.6	-	17.0	16.3	15.3	15.3	-
Household audio and video equipment .....	365	83.0	81.8	77.0	77.2	-	58.3	56.7	51.2	51.6	-
Household audio and video equipment .....	3651	61.7	60.8	57.7	57.9	-	41.6	40.3	36.6	36.9	-
Communications equipment .....	366	265.3	264.2	250.5	250.5	-	134.2	133.5	126.1	126.8	-
Telephone and telegraph apparatus .....	3661	128.5	128.2	122.5	123.1	-	70.6	70.1	65.3	66.4	-
Electronic components and accessories .....	367	584.8	581.0	553.9	554.7	-	329.6	327.1	316.7	317.4	-
Electron tubes .....	3671	32.0	31.9	28.9	28.7	-	20.8	20.9	19.3	19.1	-
Semiconductors and related devices .....	3674	240.1	239.6	229.9	231.0	-	93.1	93.3	93.3	94.0	-
Electronic components, nec .....	3679	142.6	140.6	133.8	133.8	-	89.8	88.2	85.9	86.2	-
Misc. electrical equipment and supplies .....	369	166.2	163.1	160.6	162.0	-	114.6	111.8	108.9	110.3	-
Storage batteries .....	3691	30.1	28.9	29.4	30.0	-	23.2	22.1	22.2	23.0	-
Engine electrical equipment .....	3694	69.9	69.4	66.6	67.4	-	52.7	52.4	50.0	50.6	-
Transportation equipment .....	37	2,029.1	1,987.1	1,872.5	1,863.4	1,842.6	1,280.0	1,222.3	1,159.0	1,158.6	1,142.9
Motor vehicles and equipment .....	371	845.6	812.5	789.0	784.6	775.1	649.5	616.8	602.1	603.6	594.3
Motor vehicles and car bodies .....	3711	352.3	326.5	328.6	318.8	-	260.3	235.6	242.0	237.3	-
Truck and bus bodies .....	3713	41.3	41.3	37.8	38.1	-	32.5	32.6	28.9	29.3	-
Motor vehicle parts and accessories .....	3714	405.3	398.8	381.1	385.2	-	320.5	313.2	299.6	304.5	-
Truck trailers .....	3715	27.1	26.4	23.1	23.6	-	21.4	20.6	17.7	18.1	-
Aircraft and parts .....	372	712.5	707.6	652.6	648.3	-	344.1	342.0	316.4	312.8	-
Aircraft .....	3721	381.8	377.6	342.1	340.5	-	163.6	162.1	146.1	144.6	-
Aircraft engines and engine parts .....	3724	152.1	151.8	143.6	142.1	-	77.8	77.4	73.7	72.2	-
Aircraft parts and equipment, nec .....	3728	178.6	178.2	166.9	165.7	-	102.7	102.5	96.6	96.0	-
Ship and boat building and repairing .....	373	191.0	188.4	174.0	174.3	-	144.4	142.6	133.3	135.0	-
Ship building and repairing .....	3731	130.5	130.9	125.1	125.9	-	94.7	95.4	93.0	95.4	-
Boat building and repairing .....	3732	60.5	57.5	48.9	48.4	-	49.7	47.2	40.3	39.6	-
Railroad equipment .....	374	33.4	33.7	30.9	31.3	-	24.8	25.0	22.3	22.6	-
Guided missiles, space vehicles, and parts .....	376	187.1	186.3	171.6	170.2	-	57.1	56.6	49.0	48.3	-
Guided missiles and space vehicles .....	3761	134.2	134.0	124.0	122.8	-	36.6	36.6	33.3	33.1	-
Miscellaneous transportation equipment .....	379	46.3	45.6	41.6	42.1	-	30.4	29.9	27.0	27.3	-
Travel trailers and campers .....	3792	17.6	17.4	15.3	15.8	-	13.6	13.5	11.8	12.2	-
Instruments and related products .....	38	1,010.7	1,003.6	972.1	973.1	967.1	500.8	494.6	475.8	476.0	472.8
Search and navigation equipment .....	381	286.0	293.7	263.1	262.3	-	94.7	92.7	82.9	82.2	-
Measuring and controlling devices .....	382	325.4	322.7	308.2	308.3	-	181.5	178.8	168.4	168.2	-
Environmental controls .....	3822	49.5	49.2	44.8	44.6	-	33.6	33.2	29.8	29.7	-
Process control instruments .....	3823	68.3	68.1	65.0	64.9	-	35.4	35.0	32.9	32.8	-
Instruments to measure electricity .....	3825	91.8	90.4	86.7	86.4	-	46.1	44.9	44.1	43.8	-
Medical instruments and supplies .....	384	245.6	243.9	250.6	251.8	-	144.3	143.0	144.9	146.5	-
Surgical and medical instruments .....	3841	99.7	99.8	103.2	104.1	-	57.7	57.9	61.0	61.9	-
Surgical appliances and supplies .....	3842	93.5	92.8	95.9	95.9	-	58.6	58.2	61.0	61.4	-
Ophthalmic goods .....	385	42.3	41.9	39.9	39.7	-	29.1	28.9	28.0	27.6	-
Photographic equipment and supplies .....	386	100.8	100.8	100.7	101.2	-	43.2	43.2	44.1	43.9	-
Watches, clocks, watchcases, and parts .....	387	10.6	10.6	9.6	9.8	-	8.0	8.0	7.5	7.6	-
Miscellaneous manufacturing industries .....	39	378.2	369.8	362.2	365.1	359.7	274.1	266.8	259.2	261.6	256.8
Jewelry, silverware, and plated ware .....	391	51.6	50.3	50.7	51.0	-	36.2	34.9	36.0	36.1	-
Jewelry, precious metal .....	3911	37.8	36.9	37.0	37.0	-	26.2	25.3	26.2	26.1	-
Musical instruments .....	393	12.6	12.1	12.2	12.2	-	10.3	9.8	9.9	10.0	-
Toys and sporting goods .....	394	104.6	102.0	101.6	103.1	-	75.8	74.1	73.5	74.7	-
Dolls, games, toys, and children's vehicles .....	3942,4	42.9	41.9	42.4	43.2	-	29.8	29.3	29.7	30.4	-
Sporting and athletic goods, nec .....	3949	61.7	60.1	59.2	59.9	-	46.0	44.8	43.8	44.3	-
Pens, pencils, office, and art supplies .....	395	34.2	33.6	32.5	32.3	-	24.0	23.5	22.6	22.7	-
Costume jewelry and notions .....	396	33.4	31.5	30.4	30.3	-	25.3	23.3	21.6	21.6	-
Costume jewelry .....	3961	20.7	19.6	18.8	18.7	-	15.4	14.1	12.8	12.8	-
Miscellaneous manufactures .....	399	141.8	140.3	134.8	136.2	-	102.5	101.2	95.6	96.5	-
Signs and advertising specialties .....	3993	56.8	56.8	52.4	53.0	-	39.9	39.9	35.7	35.8	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Nondurable goods</b> .....		8,045	7,997	7,800	7,884	7,853	5,640	5,595	5,420	5,493	5,469
Food and kindred products .....	20	1,663.2	1,702.5	1,633.5	1,676.2	1,703.6	1,190.6	1,229.9	1,170.1	1,209.6	1,234.5
Meat products .....	201	425.9	427.2	432.6	438.1	-	361.7	363.2	369.9	374.5	-
Meat packing plants .....	2011	137.1	137.3	141.1	142.2	-	115.2	115.3	120.7	121.7	-
Sausages and other prepared meats .....	2013	88.6	88.9	87.6	89.3	-	65.9	66.6	66.2	67.3	-
Poultry slaughtering and processing .....	2015	200.2	201.0	203.9	206.6	-	180.6	181.3	183.0	185.5	-
Dairy products .....	202	158.5	158.5	153.7	156.5	-	97.8	97.7	94.9	96.9	-
Cheese, natural and processed .....	2022	42.3	42.1	40.0	41.3	-	32.8	32.6	31.0	31.9	-
Fluid milk .....	2026	74.4	74.4	72.8	73.2	-	37.2	37.2	36.4	36.5	-
Preserved fruits and vegetables .....	203	238.7	274.7	220.4	243.3	-	196.5	232.4	180.3	203.0	-
Canned specialties .....	2032	21.3	21.8	20.2	20.4	-	16.3	17.0	16.3	16.6	-
Canned fruits and vegetables .....	2033	78.3	111.3	70.0	82.4	-	64.7	97.7	57.3	69.5	-
Frozen fruits and vegetables .....	2037	53.2	53.6	45.4	50.3	-	46.6	46.8	39.0	43.7	-
Grain mill products .....	204	126.8	125.9	126.3	127.1	-	87.4	86.7	88.1	89.3	-
Flour and other grain mill products .....	2041	21.5	21.6	21.5	21.8	-	13.4	13.5	14.0	14.3	-
Prepared feeds, nec .....	2048	44.6	44.1	43.9	44.1	-	28.1	27.7	27.9	28.1	-
Bakery products .....	205	212.2	211.6	208.5	210.5	-	133.5	133.1	130.7	132.5	-
Bread, cake, and related products .....	2051	154.9	154.4	150.5	151.7	-	89.2	88.9	86.2	87.4	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	57.3	57.2	58.0	58.8	-	44.3	44.2	44.5	45.1	-
Sugar and confectionery products .....	206	93.1	94.1	97.2	98.7	-	71.4	72.6	73.6	75.0	-
Raw cane sugar .....	2061	6.2	5.4	6.9	6.6	-	4.4	3.8	5.0	4.8	-
Cane sugar refining .....	2062	5.4	5.5	5.4	5.4	-	4.1	4.1	3.9	4.0	-
Beet sugar .....	2063	7.2	7.1	7.8	7.6	-	5.7	5.7	6.2	6.1	-
Candy and other confectionery products .....	2064	45.5	47.4	49.5	51.1	-	36.4	38.4	38.9	40.3	-
Fats and oils .....	207	30.8	30.6	30.8	30.5	-	22.1	21.7	21.4	21.3	-
Beverages .....	208	188.9	189.5	183.8	185.7	-	79.8	80.0	77.6	78.1	-
Malt beverages .....	2082	39.7	39.8	38.7	39.2	-	23.8	23.9	23.2	23.2	-
Bottled and canned soft drinks .....	2086	105.6	106.3	102.5	103.8	-	35.2	35.7	34.3	34.9	-
Misc. food and kindred products .....	209	188.3	190.4	180.2	185.8	-	140.4	142.5	133.6	139.0	-
Tobacco products .....	21	45.7	45.8	44.4	44.8	45.4	33.0	32.7	32.0	32.6	33.0
Cigarettes .....	211	35.4	35.8	34.4	35.0	-	26.5	26.5	25.6	26.3	-
Textile mill products .....	22	696.7	682.6	664.0	668.6	663.5	597.8	584.8	569.0	573.5	568.6
Broadwoven fabric mills, cotton .....	221	91.4	87.6	88.1	87.9	-	81.7	78.0	78.5	78.5	-
Broadwoven fabric mills, synthetics .....	222	77.0	75.5	73.3	73.8	-	67.6	66.2	64.4	65.0	-
Broadwoven fabric mills, wool .....	223	17.7	17.3	17.2	17.4	-	14.3	13.9	14.1	14.3	-
Narrow fabric mills .....	224	24.1	23.4	24.0	24.2	-	20.3	19.7	20.3	20.4	-
Knitting mills .....	225	209.7	206.6	198.4	200.7	-	182.8	180.3	172.9	175.1	-
Women's hosiery, except socks .....	2251	32.6	32.2	31.4	31.6	-	29.1	28.6	28.0	28.3	-
Hosiery, nec .....	2252	39.7	39.3	38.2	38.7	-	35.6	35.1	34.0	34.4	-
Knit outerwear mills .....	2253	60.0	59.6	53.8	54.7	-	52.6	52.4	47.4	48.2	-
Knit underwear mills .....	2254	29.8	28.6	28.8	28.8	-	25.4	24.3	24.8	24.9	-
Weft knit fabric mills .....	2257	26.9	26.6	25.9	26.2	-	23.2	23.4	22.2	22.5	-
Textile finishing, except wool .....	226	61.6	60.7	60.9	61.3	-	50.0	49.3	49.6	50.1	-
Finishing plants, cotton .....	2261	24.9	24.2	24.8	24.8	-	20.0	19.4	20.0	20.1	-
Finishing plants, synthetics .....	2262	23.8	23.9	23.8	24.1	-	19.2	19.1	19.2	19.5	-
Carpets and rugs .....	227	61.7	61.6	58.6	58.9	-	50.3	50.0	47.7	48.0	-
Yarn and thread mills .....	228	101.8	98.5	93.6	93.9	-	91.1	88.1	83.2	83.6	-
Yarn spinning mills .....	2281	80.2	77.8	73.4	73.5	-	72.1	69.9	65.6	65.6	-
Throwing and winding mills .....	2282	14.3	13.6	13.6	13.7	-	12.5	11.9	11.8	12.0	-
Miscellaneous textile goods .....	229	51.7	51.4	49.9	50.5	-	39.7	39.3	38.3	38.5	-
Apparel and other textile products .....	23	1,053.9	1,010.9	1,015.0	1,026.8	1,000.9	885.2	843.4	848.5	859.1	835.7
Men's and boys' suits and coats .....	231	50.6	48.9	48.2	48.6	-	42.5	40.7	40.4	40.7	-
Men's and boys' furnishings .....	232	281.1	266.8	270.4	274.5	-	242.1	228.6	231.8	235.3	-
Men's and boys' shirts .....	2321	67.8	63.4	63.4	64.6	-	57.7	53.9	54.3	55.3	-
Men's and boys' trousers and slacks .....	2325	83.2	78.7	83.7	85.4	-	72.4	68.0	72.7	74.3	-
Men's and boys' work clothing .....	2326	44.1	43.5	42.5	42.9	-	38.1	37.6	36.8	37.1	-
Women's and misses' outerwear .....	233	330.2	315.4	323.3	326.7	-	276.0	262.0	270.3	273.2	-
Women's and misses' blouses and shirts .....	2331	39.7	38.0	37.2	37.7	-	32.4	30.8	30.4	30.8	-
Women's, juniors', and misses' dresses .....	2335	69.7	65.3	64.0	64.0	-	57.4	53.4	52.2	52.2	-
Women's and misses' suits and coats .....	2337	36.5	37.6	37.9	39.9	-	30.4	31.3	32.3	34.1	-
Women's and misses' outerwear, nec .....	2339	184.3	174.5	184.2	185.1	-	155.8	146.5	155.4	156.1	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	62.3	60.5	60.4	60.9	-	51.4	49.5	49.0	49.5	-
Women's and children's underwear .....	2341	50.2	49.5	49.0	49.6	-	43.2	42.4	41.4	41.9	-
Brassieres, girdles, and allied garments .....	2342	12.1	11.0	11.4	11.3	-	8.2	7.1	7.6	7.6	-
Girls' and children's outerwear .....	236	58.1	56.2	54.6	56.2	-	48.9	46.9	46.4	48.1	-
Girls' and children's dresses and blouses .....	2361	23.7	22.2	22.2	22.8	-	20.6	19.0	19.7	20.3	-
Misc. apparel and accessories .....	238	45.1	43.7	43.2	43.4	-	37.2	35.6	35.2	35.4	-
Misc. fabricated textile products .....	239	208.3	201.4	197.6	199.2	-	172.0	165.1	161.3	162.6	-
Curtains and draperies .....	2391	23.9	22.7	21.6	22.1	-	19.8	18.6	17.7	18.1	-
House furnishings, nec .....	2392	54.7	53.4	53.5	53.9	-	45.7	44.4	44.4	44.7	-
Automotive and apparel trimmings .....	2396	50.7	48.8	47.3	47.7	-	41.8	39.9	38.5	38.8	-
Paper and allied products .....	26	706.8	705.4	687.0	694.3	691.5	530.9	529.3	516.1	522.8	520.7
Paper mills .....	262	182.1	182.6	176.3	179.9	-	138.2	138.4	133.7	137.1	-
Paperboard mills .....	263	53.2	53.0	50.5	51.3	-	40.7	40.6	39.1	39.6	-
Paperboard containers and boxes .....	265	211.6	209.5	206.2	208.0	-	163.5	161.5	159.3	161.2	-
Corrugated and solid fiber boxes .....	2653	118.8	117.4	117.0	117.9	-	89.3	87.8	87.7	88.6	-
Sanitary food containers .....	2656	16.7	16.3	16.3	16.3	-	14.1	13.8	13.8	14.0	-
Folding paperboard boxes .....	2657	50.7	50.6	49.4	49.9	-	40.7	40.7	39.9	40.2	-
Misc. converted paper products .....	267	245.7	246.1	240.2	241.4	-	177.5	177.7	173.3	174.3	-
Paper, coated and laminated, nec .....	2672	46.2	46.4	45.3	46.0	-	22.8	22.7	21.9	22.7	-
Bags: plastics, laminated, and coated .....	2673	35.1	35.2	35.4	35.4	-	26.2	26.3	26.4	26.3	-
Envelopes .....	2677	26.9	26.1	25.9	25.7	-	20.8	20.2	20.0	19.9	-
Printing and publishing .....	27	1,579.7	1,573.1	1,538.8	1,534.0	1,528.0	877.0	871.9	845.1	841.2	837.3
Newspapers .....	271	479.0	477.7	463.4	462.6	-	166.5	165.5	160.9	160.2	-
Periodicals .....	272	129.4	129.8	126.9	126.8	-	47.4	47.8	45.3	44.8	-
Books .....	273	121.6	121.7	120.8	119.6	-	66.0	65.9	65.2	64.4	-
Book publishing .....	2731	85.7	85.5	85.1	83.9	-	36.9	36.4	36.6	35.9	-
Book printing .....	2732	35.9	36.2	35.7	35.7	-	29.1	29.5	28.6	28.5	-
Miscellaneous publishing .....	274	82.1	82.1	82.8	82.2	-	41.8	41.8	40.5	40.1	-
Commercial printing .....	275	554.9	550.3	539.8	536.1	-	403.7	400.0	389.3	385.9	-
Commercial printing, lithographic .....	2752	368.4	366.0	358.8	357.1	-	267.9	266.0	258.4	256.9	-
Commercial printing, nec .....	2759	168.9	167.0	164.2	162.1	-	121.7	120.2	117.6	115.6	-
Manifold business forms .....	276	50.4	50.1	48.4	48.3	-	35.0	34.8	33.8	33.8	-
Blankbooks and bookbinding .....	278	73.4	72.2	68.2	69.5	-	57.0	56.3	51.3	52.8	-
Printing trade services .....	279	63.6	63.4	62.2	62.1	-	46.5	46.1	45.1	44.8	-
Chemicals and allied products .....	28	1,102.2	1,102.4	1,084.8	1,094.8	1,091.7	608.9	607.8	584.5	588.9	586.1
Industrial inorganic chemicals .....	281	143.6	144.2	139.0	139.5	-	72.1	72.6	68.9	68.1	-
Industrial inorganic chemicals, nec .....	2819	96.7	97.2	92.9	93.6	-	50.8	50.8	47.4	47.0	-
Plastics materials and synthetics .....	282	182.5	182.6	178.4	179.1	-	118.5	117.9	110.8	111.1	-
Plastics materials and resins .....	2821	87.6	87.4	86.0	86.4	-	51.9	51.6	50.5	51.0	-
Organic fibers, noncellulosic .....	2824	64.9	64.8	61.9	61.9	-	45.5	45.0	40.5	40.0	-
Drugs .....	283	237.9	239.3	244.7	248.9	-	105.0	105.8	107.4	109.1	-
Pharmaceutical preparations .....	2834	197.7	198.9	201.6	205.3	-	88.5	89.4	90.7	92.3	-
Soap, cleaners, and toilet goods .....	284	162.1	160.4	154.6	156.9	-	100.3	99.0	94.2	96.0	-
Soap and other detergents .....	2841	42.9	42.9	43.9	44.5	-	27.7	27.7	28.2	28.4	-
Polishing, sanitation, and finishing preparations .....	2842,3	45.9	45.9	45.8	46.4	-	25.0	24.9	24.8	25.4	-
Toilet preparations .....	2844	73.3	71.6	64.9	66.0	-	47.6	46.4	41.2	42.2	-
Paints and allied products .....	285	62.9	63.3	59.4	59.8	-	32.0	32.4	30.1	30.5	-
Industrial organic chemicals .....	286	155.9	156.1	153.4	154.8	-	86.8	86.6	80.5	81.2	-
Cyclic crudes and intermediates .....	2865	27.8	27.8	28.2	28.4	-	16.7	16.7	16.2	16.5	-
Industrial organic chemicals, nec .....	2869	123.9	124.0	121.1	122.3	-	67.2	67.0	61.5	62.0	-
Agricultural chemicals .....	287	56.8	56.2	57.5	57.3	-	34.9	34.4	34.9	34.5	-
Miscellaneous chemical products .....	289	100.5	100.3	97.8	98.5	-	59.3	59.1	57.7	58.4	-
Petroleum and coal products .....	29	160.5	161.2	159.1	162.1	162.6	106.0	106.0	103.1	105.7	106.2
Petroleum refining .....	291	118.6	119.1	119.6	121.6	-	76.2	76.1	75.4	77.4	-
Asphalt paving and roofing materials .....	295	29.1	29.3	26.9	27.5	-	22.6	22.6	20.6	21.2	-
Rubber and misc. plastics products .....	30	900.5	886.7	853.7	860.6	849.0	698.2	684.5	653.7	661.1	652.0
Tires and inner tubes .....	301	84.3	84.9	85.2	83.5	-	61.7	61.9	62.2	61.5	-
Rubber and plastics footwear .....	302	11.2	10.6	11.4	11.4	-	9.1	8.6	9.1	9.1	-
Hose, belting, gaskets, and packing .....	305	61.8	61.8	57.2	57.5	-	44.6	44.5	41.4	41.7	-
Rubber and plastics hose and belting .....	3052	25.2	25.1	22.8	22.8	-	18.9	18.7	17.2	17.2	-
Fabricated rubber products, nec .....	306	105.7	103.5	95.3	95.8	-	79.5	77.7	71.1	71.9	-
Miscellaneous plastics products, nec .....	308	637.5	625.9	604.6	612.4	-	503.3	491.8	469.9	476.9	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	135.9	126.2	119.7	121.4	116.8	112.4	104.2	97.5	98.8	94.8
Leather tanning and finishing .....	311	15.0	12.8	13.7	13.9	-	12.5	10.8	11.4	11.6	-
Footwear, except rubber .....	314	75.9	71.5	66.8	67.8	-	64.6	60.6	56.4	57.2	-
Men's footwear, except athletic .....	3143	33.5	31.7	28.7	29.1	-	27.2	25.6	23.4	23.7	-
Women's footwear, except athletic .....	3144	27.6	26.3	24.9	25.4	-	24.6	23.1	21.5	21.7	-
Luggage .....	316	10.8	9.6	9.2	9.4	-	7.8	7.0	5.9	6.1	-
Handbags and personal leather goods .....	317	15.2	14.0	13.2	13.3	-	12.1	11.1	9.9	10.0	-
<b>Transportation and public utilities .....</b>		<b>5,869</b>	<b>5,833</b>	<b>5,821</b>	<b>5,850</b>	<b>5,810</b>	<b>4,877</b>	<b>4,836</b>	<b>4,834</b>	<b>4,864</b>	<b>4,831</b>
Transportation .....		3,582	3,541	3,560	3,574	3,529	-	-	-	-	-
Railroad transportation .....	40	265.5	284.0	272.6	271.3	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	245.8	244.8	233.6	232.5	-	-	-	-	-	-
Local and interurban passenger transit .....	41	334.4	283.6	377.5	355.5	-	304.5	254.9	348.4	326.7	-
Local and suburban transportation .....	411	138.8	138.8	144.1	145.5	-	125.2	125.9	131.2	132.3	-
Taxicabs .....	412	32.3	32.0	32.0	31.6	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	24.5	24.3	23.6	23.7	-	20.8	20.8	21.0	21.0	-
School buses .....	415	108.8	60.2	145.5	122.5	-	-	-	-	-	-
Trucking and warehousing .....	42	1,654.0	1,657.5	1,611.9	1,644.3	-	1,443.3	1,444.7	1,398.4	1,428.6	-
Trucking and courier services, except air .....	421	1,534.9	1,537.7	1,495.6	1,525.8	-	1,344.7	1,345.6	1,302.6	1,330.6	-
Public warehousing and storage .....	422	115.1	115.9	112.4	114.7	-	95.2	95.7	92.3	94.6	-
Water transportation .....	44	181.8	183.6	179.8	179.3	-	-	-	-	-	-
Water transportation of freight, nec .....	444	15.8	15.4	15.0	15.1	-	-	-	-	-	-
Water transportation services .....	449	112.8	113.1	113.5	110.8	-	99.5	100.2	100.5	97.8	-
Transportation by air .....	45	755.1	781.8	748.3	753.8	-	-	-	-	-	-
Air transportation, scheduled .....	451	626.2	631.7	619.7	623.8	-	-	-	-	-	-
Airports, flying fields, and services .....	458	100.4	101.3	100.4	101.2	-	-	-	-	-	-
Pipelines, except natural gas .....	46	19.0	19.2	18.6	19.3	-	14.0	14.1	13.7	14.3	-
Transportation services .....	47	352.0	351.8	351.1	350.9	-	-	-	-	-	-
Passenger transportation arrangement .....	472	194.3	193.5	191.5	191.6	-	155.9	155.2	149.6	150.3	-
Travel agencies .....	4724	153.0	152.9	152.0	151.6	-	121.7	121.8	116.0	118.5	-
Freight transportation arrangement .....	473	130.2	131.0	132.0	131.8	-	105.8	106.2	104.2	103.7	-
Communications and public utilities .....		2,287	2,292	2,261	2,276	2,281	-	-	-	-	-
Communications .....	48	1,315.7	1,315.8	1,293.6	1,297.7	-	984.1	981.4	974.2	980.4	-
Telephone communications .....	481	914.2	914.0	893.3	897.4	-	659.4	657.0	648.6	655.2	-
Radio and television broadcasting .....	483	235.5	236.2	232.9	232.3	-	195.0	195.2	193.0	192.6	-
Radio broadcasting stations .....	4832	120.0	120.4	118.4	118.2	-	-	-	-	-	-
Television broadcasting stations .....	4833	115.5	115.8	114.5	114.1	-	-	-	-	-	-
Cable and other pay television services .....	484	128.7	128.7	131.8	132.2	-	107.0	106.7	111.0	111.0	-
Electric, gas, and sanitary services .....	49	971.7	975.8	967.5	978.0	-	772.6	778.2	764.5	775.1	-
Electric services .....	491	481.6	461.9	453.9	458.2	-	357.7	358.4	351.6	355.8	-
Gas production and distribution .....	492	166.5	167.6	164.3	167.1	-	131.2	132.0	128.3	130.7	-
Combination utility services .....	493	194.5	195.9	192.3	193.3	-	157.3	158.6	152.2	152.9	-
Sanitary services .....	495	118.3	119.3	126.0	127.5	-	102.1	102.7	108.0	110.3	-
<b>Wholesale trade .....</b>		<b>6,262</b>	<b>6,254</b>	<b>6,082</b>	<b>6,112</b>	<b>6,091</b>	<b>5,041</b>	<b>5,035</b>	<b>4,878</b>	<b>4,905</b>	<b>4,885</b>
Durable goods .....	50	3,660	3,656	3,528	3,540	3,527	2,919	2,915	2,798	2,808	-
Motor vehicles, parts, and supplies .....	501	464.3	464.3	451.6	455.2	-	375.1	375.3	363.1	366.7	-
Automobiles and other motor vehicles .....	5012	120.3	120.7	119.5	120.0	-	-	-	-	-	-
Motor vehicle supplies and new parts .....	5013	272.4	272.4	263.7	265.7	-	-	-	-	-	-
Furniture and home furnishings .....	502	152.4	151.0	142.4	143.0	-	122.3	121.9	113.3	114.2	-
Furniture .....	5021	70.7	70.3	66.1	65.7	-	-	-	-	-	-
Home furnishings .....	5023	81.7	80.7	76.3	77.3	-	-	-	-	-	-
Lumber and other construction materials .....	503	237.2	238.9	223.2	225.9	-	193.5	195.3	180.7	183.1	-
Lumber, plywood, and millwork .....	5031	122.7	123.6	115.4	117.4	-	-	-	-	-	-
Construction materials, nec .....	5039	43.8	44.4	42.4	42.3	-	-	-	-	-	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Professional and commercial equipment .....	504	775.8	774.9	757.1	757.7	-	625.7	623.9	611.1	611.2	-
Computers, peripherals and software .....	5045	302.6	299.9	286.3	286.4	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	142.1	141.4	134.8	134.4	-	113.1	112.6	106.1	106.4	-
Electrical goods .....	506	498.2	498.9	491.8	491.4	-	378.5	378.3	370.2	369.5	-
Electrical apparatus and equipment .....	5063	205.7	205.7	201.4	201.4	-	-	-	-	-	-
Electrical appliances, television and radio sets .....	5064	62.4	62.4	60.6	61.2	-	-	-	-	-	-
Electronic parts and equipment .....	5065	230.1	230.8	229.8	228.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	283.3	283.7	266.0	267.4	-	228.9	228.6	212.1	213.4	-
Hardware .....	5072	98.0	98.0	90.5	90.8	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	118.1	117.9	111.2	111.6	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	811.3	810.4	780.7	784.1	-	646.1	645.4	618.7	620.6	-
Construction and mining machinery .....	5082	86.5	86.4	79.4	79.3	-	-	-	-	-	-
Farm and garden machinery .....	5083	121.8	121.6	118.2	119.1	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	332.1	331.3	319.2	320.6	-	-	-	-	-	-
Industrial supplies .....	5085	146.3	146.5	144.0	144.1	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	295.4	292.6	280.2	280.6	-	235.7	233.6	222.5	223.3	-
Scrap and waste materials .....	5093	110.1	109.0	105.3	104.8	-	-	-	-	-	-
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,602</b>	<b>2,598</b>	<b>2,554</b>	<b>2,572</b>	<b>2,564</b>	<b>2,122</b>	<b>2,120</b>	<b>2,080</b>	<b>2,097</b>	<b>-</b>
Paper and paper products .....	511	242.9	242.9	237.3	237.2	-	196.0	196.2	191.5	191.7	-
Drugs, proprietaries, and sundries .....	512	187.8	188.2	188.0	188.2	-	157.4	158.2	158.0	158.1	-
Apparel, piece goods, and notions .....	513	207.5	205.8	199.1	202.1	-	163.0	162.1	157.0	159.6	-
Groceries and related products .....	514	862.5	860.9	835.7	842.8	-	726.6	724.5	699.2	706.0	-
Groceries, general line .....	5141	273.2	274.1	271.1	272.4	-	-	-	-	-	-
Meats and meat products .....	5147	61.6	61.5	60.9	61.0	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	110.5	107.0	97.5	100.8	-	-	-	-	-	-
Chemicals and allied products .....	516	138.4	138.4	136.8	138.1	-	99.8	99.7	99.2	100.3	-
Petroleum and petroleum products .....	517	198.9	198.9	194.6	195.0	-	157.6	158.0	154.3	154.8	-
Petroleum bulk stations and terminals .....	5171	83.6	84.1	82.9	83.8	-	-	-	-	-	-
Petroleum products, nec .....	5172	115.3	114.8	111.7	111.4	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	152.7	153.3	152.6	158.5	-	125.6	125.9	124.8	128.0	-
Beer and ale .....	5181	97.6	98.2	97.0	100.2	-	-	-	-	-	-
Wine and distilled beverages .....	5182	55.1	55.1	55.8	58.3	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	490.5	490.9	494.3	496.8	-	397.6	398.6	401.1	404.0	-
Farm supplies .....	5191	161.2	162.6	167.4	168.4	-	-	-	-	-	-
<b>Retail trade .....</b>	<b>52</b>	<b>19,878</b>	<b>19,809</b>	<b>19,320</b>	<b>19,495</b>	<b>19,455</b>	<b>17,619</b>	<b>17,558</b>	<b>17,066</b>	<b>17,230</b>	<b>17,180</b>
<b>Building materials and garden supplies .....</b>	<b>52</b>	<b>809.8</b>	<b>799.2</b>	<b>771.4</b>	<b>778.3</b>	<b>-</b>	<b>674.9</b>	<b>665.5</b>	<b>640.3</b>	<b>647.0</b>	<b>-</b>
Lumber and other building materials .....	521	451.1	448.7	416.0	425.7	-	381.3	379.2	349.8	359.3	-
Hardware stores .....	525	165.1	183.5	163.8	165.4	-	136.7	134.9	135.1	136.7	-
<b>General merchandise stores .....</b>	<b>53</b>	<b>2,474.1</b>	<b>2,469.2</b>	<b>2,267.9</b>	<b>2,302.4</b>	<b>2,299.5</b>	<b>2,316.5</b>	<b>2,313.0</b>	<b>2,149.2</b>	<b>2,163.5</b>	<b>-</b>
Department stores .....	531	2,091.7	2,088.0	1,927.4	1,940.8	-	1,974.0	1,971.9	1,827.1	1,840.8	-
Variety stores .....	533	166.5	166.1	158.4	159.0	-	151.5	150.8	143.0	143.0	-
Miscellaneous general merchandise stores .....	539	215.9	215.1	202.1	202.8	-	191.0	190.3	179.1	179.7	-
<b>Food stores .....</b>	<b>54</b>	<b>3,243.3</b>	<b>3,247.5</b>	<b>3,205.8</b>	<b>3,242.4</b>	<b>3,254.1</b>	<b>2,981.0</b>	<b>2,985.7</b>	<b>2,939.4</b>	<b>2,975.5</b>	<b>-</b>
Grocery stores .....	541	2,901.2	2,909.6	2,861.9	2,894.7	-	2,680.5	2,689.8	2,640.2	2,672.6	-
Meat and fish markets .....	542	50.2	49.8	49.7	50.1	-	-	-	-	-	-
Dairy products stores .....	545	24.7	25.8	25.2	25.6	-	-	-	-	-	-
Retail bakeries .....	546	166.3	162.4	165.8	166.7	-	147.8	144.1	147.6	148.5	-
<b>Automotive dealers and service stations .....</b>	<b>55</b>	<b>2,104.0</b>	<b>2,112.4</b>	<b>2,035.3</b>	<b>2,050.7</b>	<b>2,064.2</b>	<b>1,756.3</b>	<b>1,764.1</b>	<b>1,692.3</b>	<b>1,706.4</b>	<b>-</b>
New and used car dealers .....	551	934.5	937.8	894.1	898.1	-	775.0	778.3	740.1	744.4	-
Auto and home supply stores .....	553	345.0	347.4	341.4	344.8	-	276.7	279.3	272.9	275.4	-
Gasoline service stations .....	554	657.3	659.9	637.4	642.9	-	569.8	571.5	548.9	554.1	-
Automotive dealers, nec .....	559	10.0	10.2	10.4	10.4	-	8.3	8.4	8.4	8.4	-
<b>Apparel and accessory stores .....</b>	<b>56</b>	<b>1,168.4</b>	<b>1,163.0</b>	<b>1,096.5</b>	<b>1,109.7</b>	<b>-</b>	<b>976.8</b>	<b>972.8</b>	<b>901.8</b>	<b>914.6</b>	<b>-</b>
Men's and boys' clothing stores .....	561	97.3	96.8	87.7	88.3	-	77.3	77.0	69.9	70.8	-
Women's clothing stores .....	562	403.7	400.8	380.5	382.3	-	335.5	333.1	313.4	315.3	-
Family clothing stores .....	565	290.8	289.7	273.8	284.1	-	250.9	250.3	233.8	243.6	-
Shoe stores .....	566	218.1	218.5	204.8	204.2	-	179.3	179.7	180.2	159.5	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Furniture and home furnishings stores .....	57	823.0	821.9	796.4	796.5	-	673.2	671.7	646.7	648.1	-
Furniture and home furnishings stores .....	571	463.6	463.5	450.6	451.5	-	377.8	377.1	363.5	365.6	-
Furniture stores .....	5712	283.0	282.5	275.4	275.7	-	-	-	-	-	-
Household appliance stores .....	572	81.0	79.9	72.2	71.7	-	66.3	65.6	58.6	58.3	-
Radio, television, and computer stores .....	573	278.4	278.5	273.6	273.3	-	229.1	229.0	224.6	224.2	-
Radio, television, and electronic stores .....	5731	114.5	114.9	116.1	115.6	-	95.4	96.0	97.3	96.5	-
Record and prerecorded tape stores .....	5735	63.5	62.9	58.4	57.8	-	53.8	53.1	48.2	48.0	-
Eating and drinking places .....	58	6,768.2	6,721.1	6,669.8	6,781.3	6,740.7	6,154.1	6,110.2	6,048.4	6,150.0	-
Miscellaneous retail establishments .....	59	2,486.7	2,474.9	2,456.4	2,433.7	-	2,086.2	2,074.9	2,048.3	2,025.3	-
Drug stores and proprietary stores .....	591	623.8	618.2	628.6	626.5	-	525.9	521.5	527.2	524.7	-
Liquor stores .....	592	119.8	121.1	120.5	121.6	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	857.0	856.9	833.6	835.5	-	715.1	714.2	689.6	689.7	-
Sporting goods and bicycle shops .....	5941	155.6	156.4	156.1	153.6	-	-	-	-	-	-
Book stores .....	5942	88.0	87.4	89.4	86.4	-	-	-	-	-	-
Stationery stores .....	5943	77.9	77.0	75.1	73.9	-	-	-	-	-	-
Jewelry stores .....	5944	147.4	145.9	142.2	140.8	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	193.9	194.6	184.3	189.4	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	63.9	63.1	66.3	64.8	-	-	-	-	-	-
Nonstore retailers .....	596	288.2	286.8	248.9	244.7	-	253.7	253.8	217.1	213.1	-
Catalog and mail-order houses .....	5961	153.0	152.7	125.2	122.2	-	-	-	-	-	-
Merchandising machine operators .....	5962	82.1	80.8	76.5	76.1	-	-	-	-	-	-
Fuel dealers .....	598	106.0	105.9	103.9	103.1	-	87.9	87.5	85.8	84.9	-
Retail stores, nec .....	599	423.2	417.4	452.2	433.0	-	348.5	342.2	372.9	356.0	-
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,817</b>	<b>6,838</b>	<b>6,710</b>	<b>6,771</b>	<b>6,790</b>	<b>4,939</b>	<b>4,953</b>	<b>4,849</b>	<b>4,906</b>	<b>4,928</b>
Finance .....		3,325	3,332	3,280	3,302	3,311	-	-	-	-	-
Depository institutions .....	60	2,296.5	2,297.8	2,255.0	2,269.1	-	1,670.1	1,671.7	1,632.6	1,645.8	-
Commercial banks .....	602	1,586.7	1,587.4	1,561.6	1,573.4	-	1,132.3	1,133.3	1,111.3	1,121.6	-
State commercial banks .....	6022	676.5	677.6	665.1	669.7	-	-	-	-	-	-
Savings institutions .....	603	456.8	455.2	435.2	436.5	-	-	-	-	-	-
Federal savings institutions .....	6035	241.2	240.4	227.6	228.1	-	-	-	-	-	-
Savings institutions, except federal .....	6036	215.6	214.8	207.6	208.4	-	-	-	-	-	-
Credit unions .....	606	135.2	135.6	137.9	138.2	-	108.4	108.7	110.0	110.5	-
Nondepository institutions .....	61	374.9	376.1	372.8	375.3	-	271.9	272.7	272.1	274.3	-
Personal credit institutions .....	614	126.9	127.2	126.5	126.8	-	94.6	94.9	95.1	95.4	-
Business credit institutions .....	615	80.0	80.4	80.3	80.1	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	157.0	157.6	155.5	157.9	-	-	-	-	-	-
Security and commodity brokers .....	62	430.3	431.7	422.5	426.9	-	-	-	-	-	-
Security brokers and dealers .....	621	327.0	327.7	320.7	324.2	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges .....	622,3	25.1	25.1	22.4	22.3	-	-	-	-	-	-
Security and commodity services .....	628	78.2	78.9	79.4	80.4	-	49.0	49.7	49.9	51.0	-
Holding and other investment offices .....	67	223.0	225.9	230.0	230.2	-	-	-	-	-	-
Insurance .....	63,64	2,127	2,133	2,132	2,138	2,141	-	-	-	-	-
Insurance carriers .....	63	1,457.0	1,463.7	1,465.7	1,470.4	-	979.7	982.4	988.3	991.7	-
Life insurance .....	631	539.1	541.3	537.9	537.3	-	330.0	329.9	326.7	325.0	-
Medical service and health insurance .....	632	241.2	243.4	254.0	255.7	-	195.9	197.5	207.6	209.0	-
Fire, marine, and casualty insurance .....	633	559.6	561.7	562.8	565.8	-	362.9	364.0	367.4	370.2	-
Title insurance .....	636	63.7	63.7	55.6	55.8	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	670.0	669.5	666.6	667.8	-	-	-	-	-	-
Real estate .....	65	1,365	1,373	1,298	1,331	1,338	-	-	-	-	-
Real estate operators and lessors .....	651	581.0	586.6	557.9	574.8	-	-	-	-	-	-
Real estate agents and managers .....	653	591.1	593.0	558.9	572.3	-	-	-	-	-	-
Subdividers and developers .....	655	161.7	161.7	151.4	153.6	-	-	-	-	-	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Services</b> .....		28,511	28,538	28,731	28,986	29,935	24,905	24,914	25,042	25,274	25,194
Hotels and other lodging places .....	70	1,740.2	1,789.9	1,614.9	1,687.9	-	-	-	-	-	-
Hotels and motels .....	701	1,665.8	1,682.0	1,564.7	1,614.0	-	1,479.5	1,496.2	1,381.2	1,431.0	-
Personal services .....	72	1,091.1	1,079.2	1,095.4	1,089.8	-	-	-	-	-	-
Laundry, cleaning, and garment services .....	721	437.3	435.3	432.4	434.3	-	389.3	387.7	382.3	383.9	-
Photographic studios, portrait .....	722	63.5	62.3	64.8	65.2	-	-	-	-	-	-
Beauty shops .....	723	371.7	370.9	380.5	378.6	-	332.4	331.6	342.0	340.3	-
Funeral service and crematories .....	726	83.6	83.6	85.1	85.5	-	-	-	-	-	-
Miscellaneous personal services .....	729	110.6	102.9	108.5	102.6	-	96.3	88.9	94.1	88.6	-
Business services .....	73	5,290.2	5,290.8	5,267.3	5,321.1	5,314.5	4,660.1	4,658.2	4,606.0	4,661.6	-
Advertising .....	731	238.7	239.5	233.1	233.4	-	171.6	171.8	164.4	165.0	-
Advertising agencies .....	7311	170.1	170.5	163.9	163.8	-	-	-	-	-	-
Credit reporting and collection .....	732	108.0	109.0	112.5	112.8	-	-	-	-	-	-
Mailing, reproduction, and stenographic services .....	733	242.0	242.9	255.0	256.1	-	-	-	-	-	-
Services to buildings .....	734	821.6	812.2	789.3	791.1	-	745.7	736.9	711.4	712.8	-
Personnel supply services .....	736	1,588.0	1,584.6	1,496.4	1,525.5	-	-	-	-	-	-
Employment agencies .....	7361	263.6	265.9	251.8	252.8	-	-	-	-	-	-
Help supply services .....	7363	1,324.4	1,318.7	1,244.6	1,272.7	-	1,283.2	1,276.2	1,198.7	1,226.6	-
Computer and data processing services .....	737	783.4	788.7	825.7	835.0	-	612.0	616.5	645.0	654.1	-
Computer programming services .....	7371	153.3	154.6	164.2	165.3	-	121.7	122.1	130.3	131.0	-
Prepackaged software .....	7372	113.9	115.2	123.1	126.5	-	-	-	-	-	-
Data processing and preparation .....	7374	199.0	199.6	206.2	208.4	-	-	-	-	-	-
Miscellaneous business services .....	738	1,290.4	1,297.1	1,344.5	1,355.5	-	1,142.0	1,147.4	1,185.5	1,197.4	-
Detective and armored car services .....	7381	459.0	461.3	482.8	483.5	-	430.9	432.6	451.8	453.1	-
Photofinishing laboratories .....	7384	80.7	80.5	76.7	78.1	-	-	-	-	-	-
Auto repair, services, and parking .....	75	937.5	939.9	913.4	922.6	-	776.7	778.0	751.7	761.7	-
Automotive rentals, without drivers .....	751	182.4	183.6	179.3	182.4	-	-	-	-	-	-
Automotive repair shops .....	753	537.9	541.7	523.7	529.5	-	440.9	444.3	426.6	432.3	-
Miscellaneous repair services .....	76	392.3	395.0	380.1	382.6	-	321.7	323.6	309.3	312.0	-
Electrical repair shops .....	762	116.5	117.8	120.4	122.2	-	-	-	-	-	-
Motion pictures .....	78	415.8	420.6	398.1	404.3	-	352.8	356.5	328.3	333.2	-
Motion picture production and services .....	781	143.7	149.6	149.5	151.7	-	116.4	121.5	117.6	119.0	-
Motion picture theaters .....	783	122.2	123.7	110.9	115.4	-	-	-	-	-	-
Amusement and recreation services .....	79	1,208.2	1,238.4	1,158.9	1,291.7	-	1,067.5	1,097.0	1,015.0	1,141.1	-
Misc. amusement and recreation services .....	799	847.4	881.5	760.7	877.4	-	754.7	786.9	669.2	780.0	-
Physical fitness facilities .....	7991	127.5	127.7	126.8	126.8	-	114.4	114.7	112.4	112.2	-
Membership sports and recreation clubs .....	7997	323.2	328.8	288.2	337.2	-	288.9	294.3	253.5	300.2	-
Health services .....	80	7,865.8	7,893.8	8,157.3	8,248.9	8,276.4	6,996.8	7,020.0	7,253.1	7,338.1	-
Offices and clinics of medical doctors .....	801	1,355.5	1,364.1	1,420.3	1,435.1	-	1,121.5	1,128.3	1,171.1	1,185.1	-
Offices and clinics of dentists .....	802	517.5	514.2	524.0	528.8	-	454.0	450.6	460.1	464.8	-
Offices and clinics of other health practitioners .....	804	281.4	280.6	296.7	301.9	-	233.1	233.1	245.1	249.0	-
Nursing and personal care facilities .....	805	1,420.4	1,424.4	1,489.3	1,507.1	-	1,284.6	1,287.8	1,343.8	1,360.2	-
Skilled nursing care facilities .....	8051	979.0	980.0	1,017.2	1,030.0	-	-	-	-	-	-
Intermediate care facilities .....	8052	201.8	202.9	215.9	217.6	-	182.1	182.9	194.3	195.7	-
Nursing and personal care, nec .....	8059	239.6	241.5	256.2	259.5	-	-	-	-	-	-
Hospitals .....	806	3,557.7	3,568.9	3,618.3	3,655.8	-	3,256.7	3,267.8	3,318.5	3,353.8	-
General medical and surgical hospitals .....	8062	3,276.1	3,286.6	3,326.7	3,362.3	-	-	-	-	-	-
Psychiatric hospitals .....	8063	105.7	104.8	105.5	105.2	-	-	-	-	-	-
Specialty hospitals, excluding psychiatric .....	8069	175.9	177.5	186.1	188.3	-	-	-	-	-	-
Medical and dental laboratories .....	807	170.3	172.3	182.8	185.8	-	-	-	-	-	-
Home health care services .....	808	289.9	293.0	327.9	333.8	-	268.4	270.8	304.0	309.3	-
Legal services .....	81	941.2	940.6	920.0	943.5	-	779.4	778.2	754.6	775.3	-
Educational services .....	82	1,510.7	1,428.5	1,692.8	1,509.4	-	-	-	-	-	-
Elementary and secondary schools .....	821	451.7	418.4	473.8	452.8	-	-	-	-	-	-
Colleges and universities .....	822	854.1	802.5	1,006.2	846.9	-	-	-	-	-	-
Vocational schools .....	824	88.3	85.5	87.2	84.7	-	-	-	-	-	-

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>				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Services—Continued</b>											
Social services .....	83	1,802.3	1,796.0	1,952.6	1,938.2	-	-	-	-	-	-
Individual and family services .....	832	466.4	473.8	489.2	492.5	-	-	-	-	-	-
Job training and related services .....	833	254.6	266.1	245.1	252.3	-	-	-	-	-	-
Child day care services .....	835	440.7	407.5	520.6	489.8	-	387.7	356.9	460.5	431.8	-
Residential care .....	836	470.2	476.5	516.7	525.7	-	-	-	-	-	-
Museums and botanical and zoological gardens .....	84	71.5	72.5	68.9	71.7	-	-	-	-	-	-
Membership organizations .....	86	1,970.1	2,001.8	1,944.2	1,979.6	-	-	-	-	-	-
Business associations .....	861	108.1	107.9	105.6	106.6	-	-	-	-	-	-
Labor organizations .....	863	138.3	135.2	139.7	140.8	-	-	-	-	-	-
Civic and social associations .....	864	444.3	477.4	422.2	451.9	-	-	-	-	-	-
Engineering and management services .....	87	2,518.2	2,522.5	2,455.9	2,468.0	-	1,921.7	1,918.8	1,869.0	1,880.7	-
Engineering and architectural services .....	871	806.5	810.2	762.6	770.0	-	664.1	666.3	625.1	632.5	-
Engineering services .....	8711	623.0	626.7	592.8	597.6	-	517.0	519.4	490.8	495.4	-
Architectural services .....	8712	130.4	130.7	122.3	122.8	-	103.4	103.5	96.0	96.8	-
Accounting, auditing, and bookkeeping .....	872	526.8	524.4	515.0	508.2	-	394.0	389.2	383.2	377.3	-
Research and testing services .....	873	580.5	582.7	552.2	557.1	-	407.0	407.3	401.4	406.4	-
Commercial physical research .....	8731	234.8	237.0	233.0	235.0	-	-	-	-	-	-
Noncommercial research organizations .....	8733	147.3	149.3	146.7	148.9	-	-	-	-	-	-
Management and public relations .....	874	624.4	625.2	626.1	632.7	-	456.6	456.0	459.3	464.5	-
Services, nec .....	89	38.5	38.5	37.4	37.3	-	31.1	30.9	29.2	29.3	-
<b>Government</b> .....		18,651	17,486	18,811	18,512	17,457	-	-	-	-	-
<b>Federal Government<sup>4</sup></b> .....		3,365	3,200	2,961	2,981	2,988	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		3,303.2	3,137.6	2,898.2	-	-	-	-	-	-	-
Department of Defense .....		981.0	960.2	915.7	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		819.5	822.3	807.6	-	-	-	-	-	-	-
Other executive agencies .....		1,522.7	1,355.1	1,174.9	-	-	-	-	-	-	-
Legislative .....		39.1	39.3	38.3	-	-	-	-	-	-	-
Judicial .....		22.9	23.1	24.4	-	-	-	-	-	-	-
<b>Federal Government, by industry:</b>											
Manufacturing activities .....		116.9	116.0	111.1	110.8	-	-	-	-	-	-
Ship building and repairing .....	3731	68.6	67.9	63.8	63.5	-	-	-	-	-	-
Transportation and public utilities, except Postal											
Service .....		35.7	34.9	34.9	33.8	-	-	-	-	-	-
Services .....		402.8	403.5	403.2	406.8	-	-	-	-	-	-
Hospitals .....	806	233.8	234.2	238.8	240.5	-	-	-	-	-	-
State government .....		4,188	4,084	4,409	4,240	4,133	-	-	-	-	-
Hospitals .....	806	433.3	431.1	428.5	431.0	-	-	-	-	-	-
Education .....	82	1,575.8	1,446.1	1,805.5	1,604.9	-	-	-	-	-	-
General administration, including executive, legislative,											
and judicial functions .....		1,668.7	1,691.1	1,674.7	1,695.4	-	-	-	-	-	-
Local government .....		11,098	10,202	11,441	11,291	10,336	-	-	-	-	-
Transportation and public utilities .....		461.1	463.7	456.1	460.4	-	-	-	-	-	-
Hospitals .....	806	653.7	658.0	674.6	681.5	-	-	-	-	-	-
Education .....	82	6,063.5	4,997.9	6,556.4	6,217.3	-	-	-	-	-	-
General administration, including executive, legislative,											
and judicial functions .....		3,528.3	3,640.3	3,431.7	3,578.6	-	-	-	-	-	-

<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> Excludes nonoffice commissioned real estate sales agents.

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

the National Security Agency.

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

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1990 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	Apr. 1990	May 1990	Mar. 1991	Apr. 1991	May 1991
<b>Total</b> .....	52,034	52,386	52,187	52,253	52,459
<b>Total private</b> .....	42,123	42,343	42,038	42,115	42,307
<b>Goods-producing</b> .....	6,947	6,955	6,662	6,659	6,679
<b>Mining</b> .....	95	96	97	98	98
<b>Construction</b> .....	548	557	528	534	542
<b>Manufacturing</b> .....	6,304	6,302	6,037	6,027	6,039
<b>Durable goods</b> .....	2,991	2,988	2,817	2,813	2,815
Lumber and wood products .....	119	121	108	109	111
Furniture and fixtures .....	161	160	148	148	148
Stone, clay, and glass products .....	109	109	102	103	104
Primary metal industries .....	103	103	99	98	98
Fabricated metal products .....	318	319	299	299	300
Industrial machinery and equipment .....	458	457	439	436	435
Electronic and other electrical equipment .....	720	718	675	674	674
Transportation equipment .....	410	408	374	375	377
Instruments and related products .....	418	417	404	403	401
Miscellaneous manufacturing .....	175	176	169	168	167
<b>Nondurable goods</b> .....	3,313	3,314	3,220	3,214	3,224
Food and kindred products .....	516	521	515	514	519
Tobacco products .....	15	15	15	14	14
Textile mill products .....	338	336	321	322	325
Apparel and other textile products .....	834	830	797	794	800
Paper and allied products .....	171	172	169	169	169
Printing and publishing .....	695	694	684	683	679
Chemicals and allied products .....	327	328	329	328	328
Petroleum and coal products .....	25	25	26	26	26
Rubber and misc. plastics products .....	314	315	295	295	295
Leather and leather products .....	79	79	70	69	70
<b>Service-producing</b> .....	45,087	45,431	45,525	45,594	45,780
<b>Transportation and public utilities</b> .....	1,689	1,709	1,725	1,724	1,730
<b>Wholesale trade</b> .....	1,892	1,896	1,861	1,856	1,860
<b>Retail trade</b> .....	10,296	10,429	10,061	10,101	10,244
<b>Finance, insurance, and real estate</b> .....	4,241	4,252	4,255	4,255	4,257
<b>Services</b> .....	17,058	17,102	17,474	17,520	17,537
<b>Government</b> .....	9,911	10,043	10,149	10,138	10,152
Federal .....	1,257	1,359	1,215	1,218	1,224
State .....	2,183	2,161	2,241	2,238	2,206
Local .....	6,471	6,523	6,693	6,682	6,722

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1990 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	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>Total</b> .....	52,162	52,281	52,347	52,371	52,380	52,372	52,349	52,319	52,355	52,264	52,207	52,149	52,227
<b>Total private</b> .....	42,378	42,454	42,510	42,578	42,594	42,579	42,540	42,500	42,527	42,415	42,344	42,275	42,344
<b>Goods-producing</b> .....	6,982	6,972	6,964	6,949	6,930	6,894	6,844	6,826	6,802	6,762	6,723	6,701	6,703
<b>Mining</b> .....	96	96	96	96	97	95	96	97	97	98	98	98	98
<b>Construction</b> .....	556	555	555	555	555	553	551	550	548	544	542	540	541
<b>Manufacturing</b> .....	6,330	6,321	6,313	6,298	6,278	6,246	6,197	6,179	6,157	6,120	6,083	6,063	6,064
<b>Durable goods</b> .....	2,992	2,987	2,984	2,965	2,950	2,936	2,904	2,892	2,879	2,853	2,828	2,819	2,817
Lumber and wood products .....	120	120	120	119	118	117	116	115	114	111	109	110	110
Furniture and fixtures .....	161	161	159	160	159	157	154	153	152	149	148	148	148
Stone, clay, and glass products .....	110	109	109	109	109	109	108	107	106	106	104	104	104
Primary metal industries .....	103	104	104	103	102	102	102	101	101	99	99	98	98
Fabricated metal products .....	318	318	319	318	316	315	311	310	308	303	300	300	299
Industrial machinery and equipment .....	457	456	455	453	450	449	446	444	444	441	439	436	435
Electronic and other electrical equipment .....	721	718	716	710	705	701	696	692	688	686	678	676	676
Transportation equipment .....	408	409	409	406	404	401	389	389	386	379	375	374	377
Instruments and related products .....	418	417	416	413	412	411	409	408	407	407	405	404	402
Miscellaneous manufacturing .....	176	175	177	174	175	174	173	173	173	172	171	169	168
<b>Nondurable goods</b> .....	3,338	3,334	3,329	3,333	3,328	3,310	3,293	3,287	3,278	3,267	3,255	3,244	3,247
Food and kindred products .....	544	541	541	542	543	543	540	542	542	544	543	543	541
Tobacco products .....	17	16	17	17	17	16	16	17	16	16	16	16	16
Textile mill products .....	337	337	336	337	334	330	330	328	327	324	322	323	326
Apparel and other textile products .....	827	825	819	821	822	814	807	803	800	798	796	791	797
Paper and allied products .....	173	173	173	174	173	172	172	171	172	171	171	170	169
Printing and publishing .....	693	694	694	694	693	693	692	692	690	686	684	681	679
Chemicals and allied products .....	329	329	330	330	331	331	330	331	330	331	330	329	329
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 .....	314	315	315	315	313	310	306	304	302	299	295	295	294
Leather and leather products .....	79	78	78	77	76	75	74	73	73	71	71	70	70
<b>Service-producing</b> .....	45,180	45,309	45,383	45,422	45,450	45,478	45,505	45,493	45,553	45,502	45,484	45,448	45,524
<b>Transportation and public utilities</b> .....	1,705	1,713	1,714	1,721	1,727	1,731	1,736	1,739	1,745	1,731	1,732	1,726	1,727
<b>Wholesale trade</b> .....	1,903	1,907	1,907	1,905	1,905	1,903	1,898	1,892	1,883	1,878	1,870	1,865	1,866
<b>Retail trade</b> .....	10,467	10,476	10,470	10,473	10,464	10,446	10,432	10,388	10,411	10,348	10,308	10,265	10,285
<b>Finance, insurance, and real estate</b> .....	4,256	4,250	4,266	4,277	4,276	4,273	4,270	4,262	4,271	4,271	4,272	4,268	4,261
<b>Services</b> .....	17,065	17,136	17,189	17,253	17,292	17,332	17,360	17,393	17,415	17,425	17,439	17,450	17,502
<b>Government</b> .....	9,784	9,827	9,837	9,793	9,786	9,793	9,809	9,819	9,828	9,849	9,863	9,874	9,883
Federal .....	1,362	1,358	1,324	1,264	1,237	1,231	1,225	1,220	1,222	1,226	1,227	1,230	1,228
State .....	2,129	2,146	2,143	2,148	2,156	2,161	2,167	2,169	2,173	2,174	2,176	2,175	2,173
Local .....	6,293	6,323	6,370	6,381	6,393	6,401	6,417	6,430	6,433	6,449	6,460	6,469	6,482

<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.

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1987 forward are subject to revision.

**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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>p</sup>	July <sup>p</sup>
<b>Total private</b> .....	74,401	74,407	74,348	74,209	73,984	73,841	73,666	73,378	73,172	72,983	73,121	73,155	73,123
<b>Goods-producing</b> .....	17,538	17,453	17,368	17,252	17,048	16,958	16,787	16,658	16,534	16,477	16,530	16,511	16,523
<b>Mining</b> .....	516	510	511	512	512	513	511	512	511	509	503	500	500
<b>Construction</b> .....	3,994	3,962	3,937	3,876	3,821	3,773	3,672	3,658	3,599	3,565	3,598	3,595	3,580
<b>Manufacturing</b> .....	13,028	12,981	12,920	12,864	12,715	12,672	12,604	12,488	12,424	12,403	12,429	12,416	12,443
<b>Durable goods</b> .....	7,417	7,375	7,322	7,287	7,172	7,148	7,098	7,000	6,956	6,948	6,964	6,948	6,958
Lumber and wood products .....	611	608	604	600	590	585	578	569	564	566	570	570	572
Furniture and fixtures .....	404	403	401	397	389	386	384	377	375	377	378	380	378
Stone, clay, and glass products .....	432	430	429	426	421	419	411	406	400	401	400	400	398
Primary metal industries .....	580	575	572	571	566	562	559	548	546	544	544	541	541
Blast furnaces and basic steel products .....	212	211	211	211	210	209	207	201	199	200	199	197	195
Fabricated metal products .....	1,056	1,053	1,046	1,041	1,030	1,024	1,018	994	990	989	990	991	990
Industrial machinery and equipment .....	1,262	1,257	1,246	1,244	1,235	1,228	1,223	1,215	1,209	1,198	1,191	1,182	1,176
Electronic and other electrical equipment .....	1,059	1,052	1,043	1,038	1,028	1,022	1,014	1,007	1,000	1,001	1,005	1,005	1,004
Transportation equipment .....	1,242	1,230	1,217	1,211	1,158	1,168	1,158	1,135	1,125	1,130	1,148	1,144	1,160
Motor vehicles and equipment .....	632	622	618	613	570	582	577	561	553	567	592	591	608
Instruments and related products .....	497	494	491	488	486	486	486	484	485	481	478	475	475
Miscellaneous manufacturing .....	274	273	273	271	269	268	267	265	262	261	260	260	264
<b>Nondurable goods</b> .....	5,611	5,606	5,598	5,577	5,543	5,524	5,506	5,488	5,468	5,455	5,465	5,468	5,485
Food and kindred products .....	1,197	1,201	1,203	1,204	1,202	1,206	1,208	1,213	1,213	1,207	1,211	1,213	1,202
Tobacco products .....	36	37	37	36	36	36	36	36	35	35	36	36	36
Textile mill products .....	593	592	588	580	580	574	571	565	564	565	570	570	577
Apparel and other textile products .....	873	870	870	864	854	850	844	843	842	840	847	851	865
Paper and allied products .....	526	526	525	525	522	521	522	522	521	519	519	517	517
Printing and publishing .....	877	876	873	871	867	864	860	855	851	849	844	840	842
Chemicals and allied products .....	604	601	601	600	598	596	594	592	591	591	585	584	583
Petroleum and coal products .....	103	103	103	104	104	103	102	102	102	103	102	103	103
Rubber and misc. plastics products .....	693	693	691	688	677	672	668	660	651	649	654	657	661
Leather and leather products .....	109	107	107	105	103	102	101	100	98	97	97	97	99
<b>Service-producing</b> .....	56,863	56,954	56,980	56,957	56,936	56,883	56,879	56,720	56,638	56,506	56,591	56,644	56,800
<b>Transportation and public utilities</b> .....	4,840	4,832	4,850	4,852	4,854	4,868	4,869	4,840	4,834	4,825	4,834	4,830	4,836
<b>Wholesale trade</b> .....	4,994	4,990	4,983	4,968	4,959	4,946	4,924	4,904	4,894	4,879	4,878	4,866	4,846
<b>Retail trade</b> .....	17,458	17,463	17,445	17,409	17,370	17,321	17,277	17,202	17,132	17,072	17,083	17,076	17,078
<b>Finance, insurance, and real estate</b> .....	4,868	4,899	4,891	4,886	4,876	4,863	4,869	4,863	4,862	4,851	4,854	4,848	4,846
<b>Services</b> .....	24,703	24,770	24,811	24,842	24,877	24,885	24,940	24,911	24,916	24,879	24,942	25,024	24,994

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

<sup>p</sup> = preliminary.  
NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1987 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.
<b>Private nonfarm payrolls, 356 industries<sup>1</sup></b>												
<b>Over 1-month span:</b>												
1989 .....	64.5	59.0	58.7	53.9	52.7	53.8	52.9	54.8	49.2	56.8	59.8	52.1
1990 .....	58.1	58.1	52.2	48.7	52.8	48.3	48.8	47.8	45.1	41.4	40.3	42.0
1991 .....	38.5	36.9	38.8	36.5	51.1	<sup>P</sup> 46.2	<sup>P</sup> 50.8					
<b>Over 3-month span:</b>												
1989 .....	67.8	65.2	61.1	56.2	54.5	53.9	54.9	52.5	55.9	56.0	55.6	59.1
1990 .....	56.8	59.0	54.4	50.7	48.7	49.4	45.8	43.7	40.0	37.4	35.8	35.1
1991 .....	31.6	30.6	30.3	36.3	<sup>P</sup> 39.7	<sup>P</sup> 49.4						
<b>Over 6-month span:</b>												
1989 .....	67.7	65.0	63.3	59.0	56.5	53.4	54.5	55.9	53.6	56.1	57.9	59.1
1990 .....	56.6	55.2	55.2	51.8	47.6	44.9	42.7	38.6	37.2	34.8	30.9	28.8
1991 .....	26.7	31.2	<sup>P</sup> 29.8	<sup>P</sup> 33.7								
<b>Over 12-month span:</b>												
1989 .....	65.3	65.2	62.2	61.5	61.5	59.6	57.6	56.7	55.6	56.0	55.5	55.6
1990 .....	54.8	54.5	51.4	48.3	48.6	43.5	40.3	35.6	34.1	30.6	32.0	<sup>P</sup> 29.9
1991 .....	<sup>P</sup> 30.2											
<b>Manufacturing payrolls, 139 industries<sup>1</sup></b>												
<b>Over 1-month span:</b>												
1989 .....	56.6	50.7	48.9	47.5	47.1	44.2	44.2	45.7	38.6	46.2	48.6	45.3
1990 .....	48.0	51.1	41.4	47.6	41.7	39.6	43.2	40.3	38.6	34.5	27.3	33.6
1991 .....	31.7	28.4	29.9	36.5	46.6	<sup>P</sup> 43.9	<sup>P</sup> 55.4					
<b>Over 3-month span:</b>												
1989 .....	56.5	54.3	49.3	43.5	42.6	42.1	40.3	36.3	39.9	41.0	41.0	41.7
1990 .....	45.0	43.2	45.0	38.1	36.1	37.4	35.6	31.3	27.0	23.0	21.6	18.3
1991 .....	19.4	18.5	18.0	30.2	<sup>P</sup> 34.9	<sup>P</sup> 46.6						
<b>Over 6-month span:</b>												
1989 .....	57.9	51.8	48.8	45.0	41.7	38.1	38.1	36.1	35.8	36.8	39.6	39.6
1990 .....	39.9	38.7	37.1	40.3	32.4	30.6	24.1	20.5	21.2	17.3	16.2	11.9
1991 .....	10.4	17.3	<sup>P</sup> 19.1	<sup>P</sup> 23.7								
<b>Over 12-month span:</b>												
1989 .....	53.6	56.1	51.8	46.4	44.6	41.7	38.1	35.3	34.9	36.3	32.4	32.7
1990 .....	35.3	33.5	31.3	29.5	25.2	20.9	19.8	14.0	12.9	10.1	11.2	<sup>P</sup> 10.6
1991 .....	<sup>P</sup> 14.4											

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

<sup>P</sup> = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus one half of the industries with unchanged employment, where 50 percent

indicates an equal balance between industries with increasing and decreasing employment. Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1990) and all seasonally adjusted data (beginning January 1987) 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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Alabama</b> .....	1,649.1	1,644.2	1,644.8	13.2	12.6	12.6	86.5	79.8	81.6
Birmingham .....	424.1	422.4	425.4	5.9	5.6	5.7	24.5	22.7	22.7
Huntsville .....	137.4	136.1	137.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.7	5.2	5.4
Mobile .....	179.7	180.5	181.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.4	11.0	11.2
Montgomery .....	136.0	135.7	134.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9	7.4	7.7
Tuscaloosa .....	65.6	67.1	65.8	3.5	3.4	3.3	4.4	4.0	4.0
<b>Alaska</b> .....	252.7	243.2	253.1	12.3	11.9	12.4	12.7	10.4	12.3
<b>Arizona</b> .....	1,468.4	1,522.6	1,496.9	12.5	12.9	13.0	83.7	78.7	80.5
Phoenix .....	977.0	1,000.8	989.7	.8	.7	.7	56.0	50.6	51.7
Tucson .....	248.0	262.9	255.3	2.2	2.3	2.3	15.2	15.4	15.8
<b>Arkansas</b> .....	933.7	953.9	958.3	4.2	3.9	4.0	40.3	38.2	40.0
Fayetteville-Springdale .....	55.9	56.9	56.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.8	1.9
Fort Smith .....	82.8	81.4	81.5	.9	.9	.9	2.7	2.8	2.8
Little Rock-North Little Rock .....	255.1	257.1	257.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.9	11.1	11.8
Pine Bluff .....	36.3	34.6	34.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	1.1	1.2
<b>California</b> .....	12,966.4	12,848.0	12,882.3	39.2	37.8	38.1	684.4	625.7	634.1
Anaheim-Santa Ana .....	1,232.2	1,210.5	1,215.5	1.2	1.1	1.1	71.4	63.1	63.8
Bakersfield .....	172.8	175.7	176.1	14.5	14.1	14.2	11.5	11.3	11.9
Fresno .....	233.2	242.0	244.5	.6	.6	.6	14.7	14.7	15.1
Los Angeles-Long Beach .....	4,327.1	4,260.5	4,266.8	8.4	8.2	8.3	164.0	152.7	153.2
Modesto .....	121.3	119.8	121.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.8	8.7	9.0
Oakland .....	904.1	908.1	908.5	3.5	2.9	2.9	53.0	48.6	49.2
Oxnard-Ventura .....	238.6	234.0	236.3	2.1	2.1	2.1	18.4	16.8	17.0
Riverside-San Bernardino .....	742.6	757.6	757.5	1.4	1.4	1.4	68.8	60.1	60.9
Sacramento .....	632.5	630.5	636.1	.6	.5	.5	42.5	36.4	37.8
Salinas-Seaside-Monterey .....	114.5	115.3	115.3	.3	.3	.3	4.6	4.5	4.5
San Diego .....	1,002.2	992.6	995.0	.7	.7	.7	63.4	58.9	60.1
San Francisco .....	979.0	979.1	981.6	.6	.6	.6	37.0	36.6	36.7
San Jose .....	839.0	826.0	828.8	.2	.3	.3	34.5	32.7	33.3
Santa Barbara-Santa Maria-Lompoc .....	153.4	152.5	152.7	1.2	1.2	1.2	7.5	7.3	7.3
Santa Rosa-Petaluma .....	145.4	149.8	150.6	.5	.5	.5	11.0	10.2	10.5
Stockton .....	156.9	157.0	157.8	.1	.1	.1	9.8	9.1	9.4
Vallejo-Fairfield-Napa .....	143.1	142.7	143.7	.6	.5	.5	12.3	11.6	11.7
<b>Colorado</b> .....	1,523.7	1,540.4	1,557.1	19.9	19.6	19.6	65.1	66.7	69.7
Boulder-Longmont .....	116.5	118.7	118.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	3.7	4.0
Denver .....	842.4	855.1	861.8	10.9	11.3	11.4	34.1	35.6	36.5
<b>Connecticut</b> .....	1,659.5	1,610.1	1,618.4	1.1	.8	.8	65.5	55.1	56.5
Bridgeport-Milford .....	195.8	186.9	188.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.2	6.5	6.6
Hartford .....	482.8	461.1	461.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.7	13.8	14.2
New Britain .....	65.2	62.6	62.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.9	4.0	4.2
New Haven-Meriden .....	261.1	251.4	250.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.9	8.4	8.8
Stamford .....	122.7	118.6	120.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.0	4.3
Waterbury .....	85.3	81.7	82.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.5	3.0	3.1
<b>Delaware</b> .....	354.7	346.3	349.6	.1	.1	.1	21.2	19.3	19.8
Wilmington .....	302.4	299.6	299.9	.2	.2	.2	18.6	16.5	17.0
<b>District of Columbia</b> .....	696.0	683.5	688.4	.1	.1	.1	14.5	13.3	13.3
Washington MSA .....	2,271.6	2,222.7	2,236.3	1.3	1.2	1.2	140.5	119.9	120.5
<b>Florida</b> .....	5,428.0	5,389.8	5,366.2	8.8	8.0	8.0	330.8	267.6	266.0
Daytona Beach .....	125.6	127.2	127.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.1	7.6	7.5
Fort Lauderdale-Hollywood-Pompano Beach .....	516.8	514.6	511.6	.2	.2	.2	34.2	27.9	27.7
Fort Myers-Cape Coral .....	128.6	134.6	133.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	13.1	12.1	11.9
Gainesville .....	101.1	102.1	98.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.3	3.9	3.8
Jacksonville .....	428.0	427.1	427.9	.7	.6	.6	27.0	22.7	22.8
Lakeland-Winter Haven .....	155.5	156.6	156.0	4.1	3.7	3.7	8.7	7.9	7.7
Melbourne-Titusville-Palm Bay .....	167.4	163.4	163.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.0	7.9	7.9
Miami-Hialeah .....	888.8	864.0	859.2	.9	.8	.8	38.8	34.7	34.2
Orlando .....	576.6	568.7	570.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	37.5	32.7	32.9
Pensacola .....	133.0	131.9	132.2	.4	.4	.4	8.2	7.7	7.8
Sarasota .....	119.0	119.7	118.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.6	8.7	8.4
Tallahassee .....	125.6	128.0	124.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.9	5.4	5.3
Tampa-St. Petersburg-Clearwater .....	887.4	890.3	886.7	.6	.5	.5	49.9	42.7	41.9
West Palm Beach-Boca Raton-Delray Beach .....	357.8	359.8	354.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	25.4	20.8	21.1

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Alabama</b> .....	390.5	379.3	382.0	84.3	84.4	84.9	356.7	351.8	353.3
Birmingham .....	59.2	56.0	56.2	32.8	32.0	32.1	100.0	98.5	98.8
Huntsville .....	33.7	32.9	32.7	3.2	3.2	3.2	25.4	25.0	25.1
Mobile .....	28.4	27.8	28.4	10.3	10.8	10.6	48.0	46.0	46.7
Montgomery .....	17.5	17.4	17.4	5.8	5.7	5.7	30.6	30.0	30.1
Tuscaloosa .....	10.4	10.2	10.4	2.1	2.1	2.1	13.7	14.2	14.2
<b>Alaska</b> .....	21.0	18.0	20.4	22.4	21.3	22.9	48.6	47.0	48.9
<b>Arizona</b> .....	186.4	179.9	180.1	81.4	81.3	82.0	369.0	378.5	376.0
Phoenix .....	139.2	133.8	133.9	58.0	58.1	58.5	246.9	255.1	254.1
Tucson .....	26.5	25.9	25.8	9.5	9.4	9.5	59.7	60.7	60.4
<b>Arkansas</b> .....	235.3	234.8	236.8	55.8	56.9	57.6	208.0	212.0	214.1
Fayetteville-Springdale .....	14.1	14.1	14.2	5.0	4.8	4.8	12.5	12.5	12.5
Fort Smith .....	26.9	25.8	25.7	4.7	4.7	4.8	16.9	16.4	16.5
Little Rock-North Little Rock .....	33.3	32.8	32.8	16.4	16.3	16.2	61.4	61.4	61.8
Pine Bluff .....	6.3	6.8	6.7	2.6	2.7	2.7	7.5	7.4	7.4
<b>California</b> .....	2,131.7	2,040.1	2,040.5	630.1	626.4	629.0	3,029.7	2,984.1	3,000.4
Anaheim-Santa Ana .....	254.4	245.4	245.5	37.9	38.2	38.2	305.5	298.2	301.0
Bakersfield .....	11.1	10.9	10.9	8.2	8.4	8.4	39.8	40.9	41.0
Fresno .....	26.4	26.6	26.8	12.8	13.2	13.3	59.4	60.6	61.0
Los Angeles-Long Beach .....	867.0	817.4	813.8	221.2	220.2	220.4	974.2	954.5	958.6
Modesto .....	24.8	23.5	23.8	5.1	5.2	5.3	30.8	30.4	30.5
Oakland .....	113.6	112.9	113.3	60.7	62.2	62.3	219.3	218.8	220.0
Oxnard-Ventura .....	33.0	31.2	31.5	12.2	11.8	11.9	58.4	57.8	58.3
Riverside-San Bernardino .....	89.6	88.8	88.7	35.5	36.1	36.5	183.9	187.8	188.7
Sacramento .....	45.4	45.1	45.8	28.9	28.6	29.1	144.8	144.6	145.2
Salinas-Seaside-Monterey .....	10.9	10.7	10.4	4.7	4.9	4.9	30.4	30.4	30.5
San Diego .....	137.1	131.4	131.4	37.2	36.6	36.6	238.8	235.1	236.1
San Francisco .....	79.7	78.4	78.6	78.9	77.5	77.9	213.8	210.1	211.2
San Jose .....	264.3	256.3	256.7	22.9	23.1	23.1	170.6	167.2	168.0
Santa Barbara-Santa Maria-Lompoc .....	22.4	21.5	21.5	5.5	5.5	5.5	34.6	34.0	34.2
Santa Rosa-Petaluma .....	21.6	21.5	21.7	6.7	6.8	6.8	37.2	39.5	39.8
Stockton .....	24.4	24.0	24.5	9.0	8.7	9.0	36.2	36.5	36.5
Vallejo-Fairfield-Napa .....	12.7	12.2	12.5	5.2	5.2	5.2	35.2	35.5	36.0
<b>Colorado</b> .....	193.0	190.3	191.0	96.2	96.9	97.8	369.9	369.1	375.3
Boulder-Longmont .....	30.4	29.9	30.0	2.3	2.3	2.4	24.7	24.9	25.2
Denver .....	95.3	92.4	92.9	69.2	69.7	70.3	204.6	207.2	209.8
<b>Connecticut</b> .....	346.3	326.4	327.4	74.9	73.8	73.6	369.2	355.7	358.4
Bridgeport-Milford .....	50.9	46.1	46.4	8.4	8.4	8.4	43.9	42.6	43.1
Hartford .....	83.9	80.7	80.2	19.5	18.8	18.7	103.7	96.1	95.9
New Britain .....	18.9	17.5	17.8	3.4	3.3	3.4	13.4	13.3	13.0
New Haven-Meriden .....	45.0	42.0	42.6	17.6	17.1	16.7	56.8	53.1	53.5
Stamford .....	19.7	18.6	18.7	6.2	6.4	6.5	27.7	27.2	27.4
Waterbury .....	20.8	18.2	18.3	9.5	9.4	9.4	17.9	17.4	17.5
<b>Delaware</b> .....	73.4	71.6	71.7	15.5	15.3	15.7	77.8	74.9	76.9
Wilmington .....	63.2	61.9	61.5	17.1	17.2	17.5	61.4	60.5	61.1
<b>District of Columbia</b> .....	15.7	15.4	15.4	24.3	23.6	23.7	62.7	60.4	61.0
Washington MSA .....	88.4	84.2	84.5	109.0	107.7	108.5	438.2	428.4	431.8
<b>Florida</b> .....	525.7	500.1	496.8	278.4	269.6	268.5	1,455.5	1,444.0	1,437.2
Daytona Beach .....	11.9	12.1	12.0	4.2	4.4	4.4	37.0	37.0	36.7
Fort Lauderdale-Hollywood-Pompano Beach .....	43.7	42.2	41.9	23.5	23.1	23.1	150.1	151.8	150.0
Fort Myers-Cape Coral .....	5.9	6.0	5.9	5.6	5.8	5.9	37.6	41.9	41.5
Gainesville .....	5.5	5.6	5.7	2.0	2.0	2.0	21.4	21.2	21.2
Jacksonville .....	36.8	35.4	35.4	29.6	29.2	29.1	112.2	116.1	117.2
Lakeland-Winter Haven .....	21.2	21.4	20.9	7.5	7.3	7.3	43.1	44.2	43.8
Melbourne-Titusville-Palm Bay .....	31.3	29.6	29.4	4.6	4.6	4.8	38.7	38.2	37.8
Miami-Hialeah .....	89.3	87.1	87.0	72.6	64.8	64.7	240.4	231.2	230.5
Orlando .....	54.2	51.8	51.9	29.4	29.1	29.2	148.5	147.0	147.3
Pensacola .....	12.1	11.4	11.2	6.7	6.4	6.5	33.3	33.3	33.5
Sarasota .....	8.9	8.4	8.4	3.7	3.6	3.6	34.2	34.2	33.4
Tallahassee .....	4.8	4.2	4.2	3.1	3.1	3.2	27.0	27.2	27.3
Tampa-St. Petersburg-Clearwater .....	93.2	89.6	89.0	41.9	41.7	41.6	242.0	246.8	246.1
West Palm Beach-Boca Raton-DeLray Beach .....	32.6	31.7	31.7	14.4	14.9	14.9	94.7	95.9	93.5

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Alabama</b> .....	74.1	73.5	74.1	321.1	326.1	326.7	322.7	336.7	329.6
Birmingham .....	30.7	30.5	30.7	106.1	109.4	110.1	64.9	67.7	69.1
Huntsville .....	4.0	4.0	4.1	33.5	33.4	33.5	31.9	32.4	33.0
Mobile .....	8.1	8.0	8.0	43.4	44.9	45.0	29.1	32.0	31.8
Montgomery .....	8.4	8.4	8.5	31.2	31.2	31.0	34.6	35.8	34.2
Tuscaloosa .....	2.1	2.2	2.1	10.3	9.9	10.1	19.1	21.1	19.6
<b>Alaska</b> .....	10.5	10.4	10.7	54.3	52.7	55.4	70.9	71.5	70.1
<b>Arizona</b> .....	94.8	95.3	95.5	408.3	420.6	421.2	232.5	275.4	248.6
Phoenix .....	75.4	75.9	78.1	276.7	284.3	283.8	124.0	142.3	130.9
Tucson .....	11.7	11.7	11.8	74.0	77.5	78.0	49.2	60.0	51.7
<b>Arkansas</b> .....	38.8	38.8	39.1	193.1	203.1	204.8	158.2	166.4	161.9
Fayetteville-Springdale .....	1.7	1.8	1.7	9.9	9.8	9.8	10.9	12.3	11.5
Fort Smith .....	2.7	2.7	2.7	19.6	19.2	19.6	8.4	8.9	8.5
Little Rock-North Little Rock .....	15.7	15.6	15.8	67.6	68.8	69.3	48.8	51.1	49.7
Pine Bluff .....	1.3	1.2	1.3	7.5	7.3	7.3	7.8	8.1	7.8
<b>California</b> .....	849.2	843.2	843.4	3,479.9	3,554.6	3,563.1	2,122.2	2,136.1	2,133.7
Anaheim-Santa Ana .....	103.4	103.7	104.3	329.2	329.6	331.8	129.2	131.2	129.8
Bakersfield .....	8.9	6.7	8.8	36.0	36.9	37.1	44.8	46.5	45.8
Fresno .....	13.5	13.7	13.9	54.6	56.4	58.5	51.2	56.2	55.3
Los Angeles-Long Beach .....	293.1	290.8	290.3	1,244.8	1,271.9	1,275.4	554.4	544.8	546.8
Modesto .....	5.0	4.8	4.9	24.8	25.4	25.8	21.0	21.8	21.9
Oakland .....	58.3	57.4	57.5	226.3	232.5	232.6	169.4	172.8	170.7
Oxnard-Ventura .....	12.8	11.9	12.0	58.8	57.6	58.2	45.1	44.8	45.3
Riverside-San Bernardino .....	33.1	33.7	33.8	177.5	193.0	191.0	152.8	156.7	156.5
Sacramento .....	41.2	43.0	43.0	141.4	143.6	144.5	187.7	188.7	190.2
Salinas-Seaside-Monterey .....	8.2	8.5	8.5	28.8	29.0	29.1	28.6	29.0	29.1
San Diego .....	68.3	66.8	66.5	276.7	280.9	282.1	180.0	182.2	181.5
San Francisco .....	108.9	108.5	108.8	318.7	325.2	326.2	141.4	142.2	141.6
San Jose .....	32.9	32.3	32.2	222.4	223.7	223.8	91.2	90.4	91.4
Santa Barbara-Santa Maria-Lompoc .....	8.8	8.6	8.6	43.1	44.5	44.6	30.5	29.9	29.8
Santa Rosa-Petaluma .....	8.8	8.9	9.0	34.7	36.9	37.1	24.9	25.5	25.2
Stockton .....	9.7	9.6	9.6	33.0	33.9	33.7	34.7	35.1	35.0
Vallejo-Fairfield-Napa .....	5.2	5.2	5.3	32.7	34.5	34.5	39.2	38.0	38.0
<b>Colorado</b> .....	97.4	97.5	98.5	404.8	409.2	419.4	277.4	291.1	285.8
Boulder-Longmont .....	4.2	4.3	4.2	28.8	29.3	29.6	22.2	24.3	22.7
Denver .....	65.3	65.2	65.8	232.4	238.1	240.5	130.6	135.6	134.6
<b>Connecticut</b> .....	153.1	147.8	149.0	434.9	436.6	440.8	214.5	213.9	211.9
Bridgeport-Milford .....	11.7	11.3	11.4	52.4	52.2	52.7	21.3	19.8	19.5
Hartford .....	75.8	73.0	73.6	117.3	114.0	113.6	64.9	64.7	64.9
New Britain .....	3.0	2.8	2.8	14.8	14.6	14.7	6.8	7.1	6.8
New Haven-Meriden .....	17.1	16.1	16.4	81.4	82.6	80.7	32.3	32.1	31.8
Stamford .....	14.2	14.0	14.1	39.2	38.0	38.8	11.0	10.4	10.5
Waterbury .....	4.7	4.4	4.4	21.7	22.3	22.3	13.2	13.0	13.1
<b>Delaware</b> .....	32.3	32.3	32.5	86.8	84.9	86.1	47.6	47.9	46.8
Wilmington .....	28.8	29.2	29.2	76.4	75.8	75.9	36.7	38.3	37.5
<b>District of Columbia</b> .....	34.1	32.6	32.5	263.0	262.1	262.2	281.6	276.0	280.2
Washington MSA .....	132.4	128.1	128.4	768.7	761.4	767.5	593.1	591.8	593.9
<b>Florida</b> .....	372.9	362.3	360.5	1,608.7	1,650.1	1,655.1	847.2	886.1	874.1
Daytona Beach .....	5.9	5.7	5.7	37.0	37.9	38.1	21.5	22.5	22.9
Fort Lauderdale-Hollywood-Pompano Beach .....	40.6	39.2	39.1	154.0	157.1	156.5	70.5	73.1	73.1
Fort Myers-Cape Coral .....	9.5	9.1	9.0	36.6	38.5	38.3	20.2	21.1	21.0
Gainesville .....	4.7	4.6	4.6	25.9	26.1	25.9	37.2	36.6	35.5
Jacksonville .....	42.9	41.8	41.8	115.7	115.9	116.0	63.1	65.4	65.0
Lakeland-Winter Haven .....	9.0	8.9	8.9	36.0	38.9	39.1	23.9	24.3	24.6
Melbourne-Titusville-Palm Bay .....	5.9	5.5	5.4	53.3	53.5	53.4	24.5	24.0	24.3
Miami-Hialeah .....	70.9	69.7	69.7	253.9	252.7	250.4	122.0	123.0	121.9
Orlando .....	33.1	31.8	31.8	207.5	208.3	211.2	66.3	67.9	66.5
Pensacola .....	5.8	5.7	5.7	35.0	35.4	35.5	31.5	31.6	31.6
Sarasota .....	8.5	8.2	8.1	40.2	42.4	42.8	13.8	14.2	14.0
Tallahassee .....	5.3	5.3	5.3	27.8	28.2	28.1	51.4	54.3	51.0
Tampa-St. Petersburg-Clearwater .....	65.4	63.8	63.7	278.1	286.8	286.5	116.3	116.4	117.4
West Palm Beach-Boca Raton-Delray Beach .....	28.5	27.5	27.3	114.7	120.6	119.0	47.5	48.2	46.7

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	Total			Mining			Construction		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Georgia</b> .....	3,021.0	2,964.1	2,969.2	8.8	8.5	8.5	152.1	132.8	134.4
Albany .....	51.0	51.4	51.1	(?)	(?)	(?)	2.5	3.2	3.0
Athens .....	69.1	67.7	67.5	.1	.1	.1	2.7	2.5	2.4
Atlanta .....	1,493.3	1,468.7	1,470.4	1.2	1.1	1.1	70.1	60.4	61.7
Augusta .....	184.6	182.0	181.6	.5	.6	.6	18.9	17.6	17.1
Columbus .....	97.8	97.1	97.4	.1	.1	.1	5.4	5.6	5.5
Macon-Warner Robins .....	129.9	127.9	128.2	.2	.1	.1	5.7	4.8	4.7
Savannah .....	114.5	113.2	113.2	(?)	(?)	(?)	10.9	11.0	10.6
<b>Hawaii</b> .....	531.6	536.6	536.2	(?)	(?)	(?)	32.1	33.2	33.3
Honolulu .....	412.9	414.8	414.3	(?)	(?)	(?)	24.3	24.8	25.0
<b>Idaho</b> .....	391.0	397.3	405.0	4.0	3.3	3.1	20.1	19.9	21.7
Boise City .....	107.0	107.5	109.2	(!)	(!)	(!)	6.0	5.1	5.4
<b>Illinois</b> .....	5,306.7	5,293.9	5,320.6	20.1	19.5	19.9	229.1	218.0	224.4
Aurora-Elgin .....	151.4	151.0	152.4	(!)	(!)	(!)	9.4	8.9	9.4
Bloomington-Normal .....	64.8	66.8	64.3	(!)	(!)	(!)	2.6	2.1	2.4
Champaign-Urbana-Rantoul .....	89.2	94.6	92.2	(!)	(!)	(!)	2.8	2.5	2.6
Chicago .....	3,225.2	3,211.1	3,228.3	2.3	2.1	2.1	134.8	128.7	132.2
Davenport-Rock Island-Moline .....	166.6	163.7	165.9	(!)	(!)	(!)	6.7	6.2	6.6
Decatur .....	54.8	53.6	54.4	(!)	(!)	(!)	3.5	3.0	3.4
Joliet .....	108.5	106.7	107.8	(!)	(!)	(!)	8.3	8.0	8.2
Kankakee .....	36.6	36.4	36.7	(!)	(!)	(!)	1.8	1.7	1.8
Lake County .....	227.2	224.3	229.2	(!)	(!)	(!)	12.6	11.6	11.9
Peoria .....	152.1	149.5	150.2	(!)	(!)	(!)	8.5	8.0	8.4
Rockford .....	140.8	138.1	138.4	(!)	(!)	(!)	6.1	6.3	6.3
Springfield .....	106.0	105.8	106.3	(!)	(!)	(!)	3.7	3.8	3.8
<b>Indiana</b> .....	2,542.3	2,535.1	2,532.0	8.3	7.4	7.6	125.6	119.4	123.8
Anderson .....	50.7	50.9	50.1	(!)	(!)	(!)	1.4	1.4	1.5
Bloomington .....	53.6	55.0	55.2	(!)	(!)	(!)	2.5	2.7	2.8
Elkhart-Goshen .....	104.6	103.9	104.4	(!)	(!)	(!)	3.8	3.6	3.7
Evansville .....	137.1	137.7	138.6	2.0	1.8	2.0	7.7	6.6	6.5
Fort Wayne .....	206.3	204.8	205.2	(!)	(!)	(!)	10.5	10.2	10.7
Gary-Hammond .....	251.5	248.3	249.6	(!)	(!)	(!)	16.6	15.8	15.9
Indianapolis .....	675.7	682.8	685.1	.8	.8	.8	39.1	37.9	39.5
Kokomo .....	47.5	46.1	46.4	(!)	(!)	(!)	1.5	1.5	1.6
Lafayette-West Lafayette .....	67.7	68.1	67.4	(!)	(!)	(!)	2.9	2.7	2.7
Muncie .....	53.5	55.8	53.4	(!)	(!)	(!)	2.3	2.3	2.4
South Bend-Mishawaka .....	118.8	121.0	120.1	(!)	(!)	(!)	7.1	7.2	7.6
Terre Haute .....	57.6	58.5	58.2	.5	.5	.6	2.9	2.4	2.5
<b>Iowa</b> .....	1,239.0	1,246.0	1,244.2	2.2	2.2	2.2	49.3	47.3	50.2
Cedar Rapids .....	95.1	94.9	94.2	(!)	(!)	(!)	4.9	4.6	4.6
Des Moines .....	236.2	234.0	235.0	(!)	(!)	(!)	10.1	9.3	9.6
Dubuque .....	44.9	46.2	45.4	(!)	(!)	(!)	1.8	1.8	2.0
Iowa City .....	55.6	56.8	55.7	(!)	(!)	(!)	1.9	1.8	1.9
Sioux City .....	56.4	56.6	56.8	(!)	(!)	(!)	2.6	2.8	3.0
Waterloo-Cedar Falls .....	68.7	72.1	70.0	(!)	(!)	(!)	2.6	2.4	2.6
<b>Kansas</b> .....	1,092.4	1,098.6	1,097.6	10.0	10.1	10.1	44.1	42.7	44.5
Lawrence .....	35.4	38.1	35.6	(!)	(!)	(!)	1.8	1.7	1.7
Topeka .....	92.5	90.2	90.8	(!)	(!)	(!)	3.8	3.4	3.6
Wichita .....	242.4	247.3	247.3	1.9	1.9	2.0	10.3	10.8	10.9
<b>Kentucky</b> .....	1,481.1	1,490.4	1,489.6	36.1	34.7	34.3	69.9	67.4	69.2
Lexington-Fayette .....	200.9	200.2	198.9	.3	.2	.2	11.1	10.0	10.0
Louisville .....	485.1	490.4	491.4	.6	.6	.6	24.6	23.3	24.1
Owensboro .....	36.3	36.4	35.8	.6	.4	.4	2.2	2.0	2.1
<b>Louisiana</b> .....	1,601.8	1,620.7	1,618.5	55.9	55.9	56.2	91.1	96.8	96.4
Alexandria .....	46.9	46.9	47.4	.1	.1	.1	3.1	3.4	3.6
Baton Rouge .....	238.0	238.8	238.9	.9	.9	.9	27.0	27.6	27.4
Houma-Thibodaux .....	58.8	59.7	60.5	5.3	5.5	5.7	2.0	2.2	2.3
Lafayette .....	97.2	100.6	99.6	12.5	12.7	12.6	4.3	4.6	4.6
Lake Charles .....	69.8	68.9	69.3	1.3	1.3	1.4	6.9	7.6	7.2
Monroe .....	58.6	58.5	58.5	.4	.3	.4	2.6	2.6	2.8
New Orleans .....	533.3	542.3	540.6	13.9	14.0	14.0	22.2	23.7	23.3
Shreveport .....	134.1	134.3	134.0	3.1	3.0	3.1	6.2	6.1	8.6

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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Georgia</b> .....	565.7	539.9	541.3	198.2	192.1	192.6	748.2	731.3	730.6
Albany .....	8.2	8.3	8.2	2.9	2.8	2.8	12.0	12.0	12.0
Athens .....	15.5	14.6	14.9	2.0	1.9	1.9	15.8	14.8	14.7
Atlanta .....	175.8	167.9	168.7	128.1	124.4	124.6	404.7	395.3	394.3
Augusta .....	41.7	41.5	41.8	4.9	4.6	4.7	38.9	37.9	38.1
Columbus .....	20.9	20.4	20.2	3.4	3.1	3.2	20.9	19.1	19.0
Macon-Warner Robins .....	18.9	18.4	18.5	5.2	5.3	5.3	29.3	28.5	28.5
Savannah .....	17.4	16.3	16.3	9.8	9.3	9.3	27.3	26.6	26.5
<b>Hawaii</b> .....	21.1	20.2	20.6	42.2	42.4	42.4	136.5	134.5	135.2
Honolulu .....	16.0	15.1	15.3	34.4	34.4	34.4	102.9	101.4	101.9
<b>Idaho</b> .....	63.8	62.6	65.1	19.8	20.0	20.2	98.2	99.6	100.5
Boise City .....	16.2	16.2	16.2	5.9	5.9	5.9	27.0	27.3	27.1
<b>Illinois</b> .....	982.2	974.8	979.7	309.8	309.1	308.6	1,263.3	1,264.0	1,274.3
Aurora-Elgin .....	38.6	38.3	38.5	3.7	3.7	3.8	40.2	40.3	40.6
Bloomington-Normal .....	7.8	7.6	7.7	3.1	2.9	2.9	15.2	15.0	14.9
Champaign-Urbana-Rantoul .....	9.7	10.0	10.0	2.4	2.3	2.3	19.1	18.9	19.0
Chicago .....	562.9	555.1	556.7	208.8	208.9	208.7	762.1	762.1	767.4
Davenport-Rock Island-Moline .....	32.8	31.3	31.7	7.4	7.5	7.6	47.2	47.2	47.3
Decatur .....	14.6	14.3	14.3	4.2	4.4	4.5	11.6	11.5	11.6
Joliet .....	20.0	19.3	19.5	8.5	8.6	8.6	25.4	24.7	25.2
Kankakee .....	5.8	5.8	5.8	2.2	2.1	2.1	8.6	8.8	8.6
Lake County .....	48.5	48.6	48.5	6.0	5.8	5.9	60.5	58.9	60.2
Peoria .....	34.3	33.0	32.8	7.1	7.1	7.1	35.5	34.5	34.8
Rockford .....	48.8	47.4	47.2	5.1	4.9	4.9	29.9	30.0	29.8
Springfield .....	4.3	4.2	4.0	4.7	4.8	4.8	23.1	22.9	22.9
<b>Indiana</b> .....	641.3	623.1	630.4	133.4	134.5	134.3	605.3	597.4	598.4
Anderson .....	16.1	16.0	15.9	1.3	1.2	1.2	12.3	11.9	11.9
Bloomington .....	9.4	9.1	9.2	1.7	1.7	1.8	12.5	12.4	12.2
Elkhart-Goshen .....	52.5	51.3	51.6	3.3	3.3	3.4	19.5	19.0	19.3
Evansville .....	31.3	30.9	31.4	7.0	7.0	7.0	35.5	35.6	35.6
Fort Wayne .....	51.8	50.2	50.8	14.0	14.1	14.2	52.1	50.8	50.7
Gary-Hammond .....	57.5	55.2	55.7	16.8	16.6	16.8	60.0	58.9	59.4
Indianapolis .....	110.7	109.4	110.3	43.9	43.9	44.0	172.9	174.6	175.2
Kokomo .....	18.8	17.3	17.5	1.5	1.4	1.4	10.6	10.1	9.9
Lafayette-West Lafayette .....	13.8	13.7	13.8	2.1	2.0	2.0	14.2	14.0	13.9
Muncie .....	11.3	10.8	11.0	2.7	2.6	2.6	13.0	12.9	12.8
South Bend-Mishawaka .....	21.9	20.7	20.6	5.7	5.6	5.7	31.1	30.9	31.2
Terre Haute .....	10.8	11.0	11.3	2.8	2.8	2.8	15.8	16.1	16.2
<b>Iowa</b> .....	237.9	231.7	231.9	56.8	55.4	55.7	312.1	310.4	311.1
Cedar Rapids .....	21.9	21.2	21.2	6.2	6.1	6.1	22.4	22.6	22.4
Des Moines .....	26.5	25.9	26.1	12.8	12.1	12.3	60.5	58.9	59.2
Dubuque .....	12.5	12.5	11.5	1.8	1.7	1.7	10.7	10.4	10.4
Iowa City .....	4.6	4.6	4.8	1.5	1.5	1.5	10.7	10.9	11.0
Sioux City .....	11.1	10.7	10.7	3.2	3.2	3.3	14.4	14.1	14.1
Waterloo-Cedar Falls .....	16.4	16.7	16.7	1.8	1.9	1.9	16.8	17.2	17.0
<b>Kansas</b> .....	187.1	184.1	186.1	66.9	67.9	68.1	268.5	266.1	268.5
Lawrence .....	4.7	4.6	4.8	1.1	1.0	1.1	8.1	7.9	7.8
Topeka .....	9.5	9.6	9.6	7.1	6.6	6.8	20.3	19.0	19.2
Wichita .....	63.9	64.0	64.4	11.8	11.4	11.5	57.0	57.2	58.2
<b>Kentucky</b> .....	290.0	282.0	283.1	81.0	81.1	81.8	352.8	354.1	355.3
Lexington-Fayette .....	33.7	32.2	32.4	9.2	9.1	9.2	45.0	44.6	45.0
Louisville .....	89.8	86.0	87.1	31.3	31.0	30.9	119.7	123.2	123.5
Owensboro .....	6.8	6.5	6.5	2.4	2.3	2.4	9.5	9.4	9.4
<b>Louisiana</b> .....	185.6	183.6	184.4	111.7	110.6	111.3	374.3	376.2	377.5
Alexandria .....	3.4	3.2	3.2	2.4	2.3	2.3	10.8	10.4	10.6
Baton Rouge .....	22.6	23.2	23.4	11.1	11.3	11.4	53.8	54.1	54.4
Houma-Thibodaux .....	5.8	5.9	6.2	6.7	6.8	6.6	14.6	15.0	14.8
Lafayette .....	9.2	9.4	9.5	6.8	7.2	7.2	25.2	26.0	26.1
Lake Charles .....	11.8	10.8	10.6	4.1	4.5	4.6	16.0	15.7	15.7
Monroe .....	7.8	7.9	7.9	3.3	3.1	3.1	15.2	14.6	14.7
New Orleans .....	45.0	45.6	45.5	44.1	44.2	44.2	133.9	132.6	133.3
Shreveport .....	17.9	17.1	17.2	8.3	8.1	8.2	32.1	32.0	32.1

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Georgia</b> .....	163.3	162.5	162.6	644.5	653.0	657.3	540.2	544.0	541.9
Albany .....	2.1	2.2	2.2	9.3	9.1	9.2	13.9	13.8	13.7
Athens .....	2.2	2.1	2.1	11.0	11.0	11.1	19.9	20.5	20.4
Atlanta .....	107.6	107.9	108.0	379.8	381.7	383.4	225.9	230.0	228.6
Augusta .....	6.2	5.9	5.9	36.9	37.0	37.1	36.7	36.8	36.6
Columbus .....	6.3	6.3	6.4	19.7	20.7	21.1	21.1	21.8	22.0
Macon-Warner Robins .....	7.7	8.3	8.3	27.1	27.0	27.2	35.8	35.5	35.5
Savannah .....	4.8	5.1	5.3	27.2	28.4	28.6	17.2	16.5	16.5
<b>Hawaii</b> .....	37.2	37.8	38.0	154.9	157.7	158.3	107.6	110.8	108.4
Honolulu .....	29.8	30.4	30.4	115.6	117.2	117.9	89.9	91.5	89.4
<b>Idaho</b> .....	19.9	20.4	20.6	82.8	84.9	87.1	82.4	86.6	86.7
Boise City .....	8.2	8.3	8.5	24.3	24.3	25.4	19.4	20.4	20.7
<b>Illinois</b> .....	378.2	373.8	377.9	1,352.1	1,366.5	1,378.0	761.9	768.2	757.8
Aurora-Elgin .....	8.4	8.5	8.5	34.6	34.4	35.3	16.5	16.9	16.3
Bloomington-Normal .....	11.3	11.3	11.3	14.8	14.5	14.9	10.0	13.4	10.2
Champaign-Urbana-Rantoul .....	3.3	3.3	3.3	18.5	18.7	18.8	33.4	38.9	36.2
Chicago .....	270.9	266.7	268.9	896.6	905.3	907.5	396.8	382.2	384.8
Davenport-Rock Island-Moline .....	7.7	7.8	7.9	38.1	37.1	38.2	26.7	26.6	26.6
Decatur .....	2.3	2.3	2.3	12.8	12.1	12.4	5.8	6.0	5.9
Joliet .....	3.7	3.8	3.7	25.4	24.2	25.4	17.2	18.1	17.2
Kankakee .....	2.0	1.9	1.9	9.6	9.5	10.0	6.6	6.6	6.5
Lake County .....	13.5	13.5	13.5	54.2	53.8	56.5	31.9	32.1	32.7
Peoria .....	7.7	7.7	7.7	42.2	41.8	42.7	16.8	17.4	16.7
Rockford .....	5.6	5.5	5.5	32.2	31.0	31.8	13.1	13.0	12.9
Springfield .....	8.1	8.1	8.1	27.5	26.9	27.5	34.6	35.1	35.2
<b>Indiana</b> .....	125.0	124.8	126.8	536.7	545.4	548.2	366.6	383.0	362.4
Anderson .....	1.6	1.6	1.6	11.1	11.5	11.3	6.8	7.2	6.6
Bloomington .....	1.9	1.9	2.0	10.0	11.1	11.3	15.6	16.1	16.0
Elkhart-Goshen .....	3.0	2.5	2.5	16.5	17.5	17.6	6.1	6.7	6.4
Evansville .....	5.4	5.5	5.5	35.1	36.6	36.5	13.0	13.9	14.3
Fort Wayne .....	12.9	13.1	13.4	46.8	46.9	47.0	18.2	19.8	18.4
Gary-Hammond .....	8.5	8.5	8.6	58.1	59.5	59.9	34.0	33.9	33.3
Indianapolis .....	50.3	52.1	53.2	159.9	162.1	163.6	98.1	102.1	98.5
Kokomo .....	1.5	1.4	1.4	7.6	7.7	7.7	6.3	6.8	6.9
Lafayette-West Lafayette .....	3.1	3.1	3.1	13.0	13.2	13.2	18.6	19.5	18.6
Muncie .....	1.7	1.7	1.7	12.1	12.4	12.6	10.4	13.0	10.2
South Bend-Mishawaka .....	6.4	6.4	6.6	34.5	37.9	36.3	12.0	12.2	12.2
Terre Haute .....	2.1	2.1	2.1	12.9	12.7	12.6	9.9	11.0	10.2
<b>Iowa</b> .....	70.3	70.7	71.7	288.4	299.0	296.2	222.0	229.3	225.2
Cedar Rapids .....	4.9	4.9	5.0	23.4	23.4	23.5	11.4	12.1	11.4
Des Moines .....	31.9	32.2	32.6	61.8	62.3	62.2	32.6	33.3	33.0
Dubuque .....	1.5	1.6	1.6	12.9	14.2	14.3	3.7	4.0	3.9
Iowa City .....	1.5	1.5	1.5	10.0	10.1	10.0	25.4	26.4	25.0
Sioux City .....	2.5	2.6	2.6	15.7	16.7	16.6	6.9	6.5	6.5
Waterloo-Cedar Falls .....	3.1	3.3	3.4	16.0	16.9	16.6	12.0	13.7	11.8
<b>Kansas</b> .....	58.7	58.6	59.3	244.1	248.2	249.6	213.0	220.9	211.4
Lawrence .....	1.6	1.6	1.6	7.7	8.6	8.1	10.4	12.7	10.5
Topeka .....	6.4	6.3	6.5	23.3	22.7	23.0	22.1	22.4	22.1
Wichita .....	11.3	11.5	11.6	58.3	60.5	60.8	27.9	30.0	27.9
<b>Kentucky</b> .....	62.1	61.8	62.1	334.0	341.5	342.1	255.2	267.8	261.7
Lexington-Fayette .....	9.5	9.6	9.7	50.3	50.6	50.2	41.8	43.9	42.2
Louisville .....	28.1	28.1	28.3	127.5	130.1	131.5	63.5	66.3	65.4
Owensboro .....	1.5	1.5	1.5	8.3	8.5	8.4	5.0	5.8	5.1
<b>Louisiana</b> .....	79.2	79.4	79.3	376.2	381.7	379.5	327.8	336.5	333.9
Alexandria .....	2.1	2.0	2.1	12.4	12.3	12.5	12.6	13.2	13.0
Baton Rouge .....	13.1	13.0	12.9	54.4	54.6	55.1	55.1	54.1	53.4
Houma-Thibodaux .....	2.1	2.1	2.1	10.9	11.0	11.3	11.4	11.2	11.5
Lafayette .....	3.3	3.4	3.3	22.8	23.2	23.1	13.1	14.1	13.2
Lake Charles .....	2.8	2.7	2.7	14.8	15.0	15.1	12.1	11.3	12.0
Monroe .....	4.4	4.5	4.5	13.4	13.5	13.9	11.5	12.0	11.2
New Orleans .....	31.9	31.3	31.5	153.7	160.6	158.0	88.6	90.3	90.8
Shreveport .....	6.4	6.7	6.6	34.0	34.4	34.1	26.1	26.9	26.1

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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Maine</b> .....	554.6	515.8	524.6	0.2	0.1	0.2	31.5	24.2	25.6
Lewiston-Auburn .....	40.0	38.5	38.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	1.7	1.8
Portland .....	133.0	124.2	125.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	5.4	5.6
<b>Maryland</b> .....	2,207.9	2,171.1	2,183.6	2.1	2.2	2.1	163.8	155.6	156.6
Baltimore MSA .....	1,170.6	1,147.6	1,151.0	.5	.5	.5	77.6	72.2	73.7
Baltimore City .....	477.3	466.1	466.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.3	17.7	18.0
Suburban Maryland-D.C. ....	785.9	776.5	782.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	70.8	65.4	65.7
<b>Massachusetts</b> .....	3,030.2	2,848.3	2,654.8	1.5	1.5	1.6	106.5	76.2	76.5
Boston .....	1,697.5	1,602.7	1,607.7	.6	.7	.7	54.0	40.8	41.1
Brockton .....	71.0	67.4	67.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.1	2.3
Fall River .....	52.5	51.1	50.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.6	1.6
Fitchburg-Leominster .....	39.5	36.5	36.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.2	1.3
Lawrence-Haverhill .....	157.9	147.7	148.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	4.5	4.5
Lowell .....	101.9	95.5	95.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	3.3	3.4
New Bedford .....	65.7	62.6	63.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.1	2.2
Pittsfield .....	42.9	41.2	42.2	.1	.1	.1	2.2	1.8	2.0
Springfield .....	237.0	227.4	227.1	.1	.2	.2	8.2	6.4	6.6
Worcester .....	195.0	181.8	182.1	.2	.2	.2	6.9	4.9	5.0
<b>Michigan</b> .....	3,999.9	3,902.4	3,901.9	10.4	9.5	9.7	150.0	130.5	135.0
Ann Arbor .....	179.2	180.8	178.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	3.9	3.9
Battle Creek .....	60.7	60.1	59.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.4	2.4
Benton Harbor .....	67.9	67.3	66.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.0	2.1
Detroit .....	1,964.2	1,912.5	1,914.0	1.0	1.1	1.2	66.0	60.2	60.5
Flint .....	174.8	174.4	174.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	4.9	5.0
Grand Rapids .....	360.8	359.5	359.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.9	15.4	15.5
Jackson .....	56.4	54.5	54.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.0	2.1
Kalamazoo .....	114.2	113.4	113.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.7	3.8
Lansing-East Lansing .....	220.6	216.5	213.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.3	6.1	6.5
Muskegon .....	59.9	59.4	59.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	2.3	2.4
Saginaw-Bay City-Midland .....	165.8	165.7	167.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	7.4	7.7
<b>Minnesota</b> .....	2,162.4	2,146.8	2,172.8	8.6	8.7	8.9	88.2	76.2	83.3
Duluth .....	99.1	98.6	99.1	5.4	5.4	5.5	4.1	3.4	3.8
Minneapolis-St. Paul .....	1,388.5	1,378.7	1,383.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	54.1	47.5	50.7
Rochester .....	67.0	67.3	68.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.3	2.4
St. Cloud .....	78.5	60.6	79.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	3.3	3.9
<b>Mississippi</b> .....	941.8	942.4	943.0	6.0	6.0	5.9	38.0	34.2	35.0
Jackson .....	187.3	187.3	187.0	.5	.5	.6	7.7	6.8	7.1
<b>Missouri</b> .....	2,359.6	2,337.5	2,332.6	5.4	4.9	4.9	104.9	99.4	103.5
Kansas City .....	790.7	786.8	793.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	33.8	33.5	34.6
St. Louis .....	1,191.9	1,181.0	1,178.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	57.8	53.0	54.4
Springfield .....	121.0	122.6	123.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.7	4.9
<b>Montana</b> .....	306.1	301.0	305.9	6.4	5.9	6.1	11.4	10.6	11.5
<b>Nebraska</b> .....	736.1	768.9	773.0	1.8	1.9	2.0	29.1	32.0	34.0
Lincoln .....	121.5	126.3	125.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.5	4.5
Omaha .....	331.7	345.7	348.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.5	14.1	14.9
<b>Nevada</b> .....	624.9	635.7	637.3	14.8	14.3	14.7	49.1	45.1	46.3
Las Vegas .....	375.2	387.3	387.1	.3	.3	.3	35.8	32.5	33.1
Reno .....	145.6	144.7	145.0	1.6	1.5	1.5	7.8	7.4	7.7
<b>New Hampshire</b> .....	517.0	486.0	489.7	.5	.4	.4	24.0	17.2	17.7
Manchester .....	82.8	78.4	78.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	2.2	2.3
Nashua .....	90.8	83.2	83.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	1.8	1.8
Portsmouth-Dover-Rochester .....	115.2	109.5	109.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.4	3.5
<b>New Jersey</b> .....	3,725.4	3,585.8	3,626.8	2.5	2.3	2.3	155.0	131.9	133.8
Atlantic City .....	189.0	171.2	181.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.0	7.0	7.1
Bergen-Passaic .....	660.1	631.2	635.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	28.7	23.6	24.1
Camden .....	455.6	445.0	447.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.4	22.7	23.5
Jersey City .....	249.9	238.9	239.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	5.0	5.2
Middlesex-Somerset-Hunterdon .....	553.6	543.5	547.3	.7	.8	.7	22.5	21.0	21.5
Monmouth-Ocean .....	347.8	330.3	344.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.2	14.3	14.7
Newark .....	946.8	920.9	925.8	.8	.6	.6	36.4	32.3	32.5
Trenton .....	200.0	195.2	196.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.3	4.4
Vineland-Millville-Bridgeton .....	60.5	58.7	59.9	.4	.4	.4	2.3	2.1	2.2

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Maine</b> .....	104.0	94.9	96.0	22.5	21.4	22.0	140.7	127.0	131.5
Lewiston-Auburn .....	9.1	8.4	8.3	1.4	1.3	1.3	10.3	9.9	9.9
Portland .....	17.2	15.7	15.9	6.4	7.1	7.1	39.5	36.2	36.6
<b>Maryland</b> .....	208.6	198.3	199.7	103.1	101.4	101.9	541.5	528.0	535.0
Baltimore MSA .....	131.7	124.4	125.0	57.6	55.6	56.3	273.2	266.6	268.3
Baltimore City .....	45.0	43.6	43.4	26.7	26.1	26.1	89.3	86.6	86.6
Suburban Maryland-D.C. ....	37.2	35.4	35.4	32.7	33.9	34.1	198.7	197.4	199.0
<b>Massachusetts</b> .....	525.2	489.6	490.2	131.2	123.2	124.7	713.7	654.5	659.9
Boston .....	242.8	226.6	227.3	75.1	72.5	73.7	375.3	346.4	348.0
Brockton .....	9.3	8.2	8.2	4.7	4.3	4.4	22.6	21.4	21.8
Fall River .....	14.0	13.2	13.3	2.0	1.9	1.6	13.4	13.0	12.9
Fitchburg-Leominster .....	11.0	10.5	10.6	1.4	1.4	1.4	9.8	9.1	9.2
Lawrence-Haverhill .....	44.7	42.2	41.7	6.5	6.1	6.2	38.7	33.8	34.4
Lowell .....	31.5	29.2	29.3	5.1	5.1	5.1	22.6	20.9	20.9
New Bedford .....	18.2	15.3	15.4	2.9	2.6	2.7	16.6	16.1	16.3
Pittsfield .....	9.5	9.0	9.0	1.3	1.3	1.3	9.8	9.3	9.5
Springfield .....	46.2	43.5	43.9	10.3	9.6	9.9	54.2	51.5	51.3
Worcester .....	40.8	37.6	38.3	9.3	6.4	6.3	47.2	43.2	43.1
<b>Michigan</b> .....	961.3	895.2	896.2	159.9	154.7	156.5	957.8	930.6	934.7
Ann Arbor .....	39.5	37.4	37.3	5.3	5.3	5.4	32.2	31.5	32.0
Battle Creek .....	18.2	15.4	15.5	1.7	1.5	1.6	12.7	12.8	12.9
Benton Harbor .....	21.9	20.7	20.7	2.7	2.7	2.7	14.7	13.7	14.0
Detroit .....	450.0	424.6	422.3	91.2	89.4	90.0	479.6	461.5	463.1
Flint .....	53.6	49.6	50.2	4.5	4.6	4.7	44.4	44.8	44.8
Grand Rapids .....	103.4	100.1	100.7	12.4	12.1	12.2	97.2	97.2	97.6
Jackson .....	13.3	12.1	12.4	3.9	3.8	3.9	13.6	13.4	13.5
Kalamazoo .....	29.9	26.3	26.6	3.3	3.5	3.5	26.5	26.1	25.7
Lansing-East Lansing .....	32.8	27.9	25.4	5.8	5.9	5.9	48.3	48.0	47.6
Muskegon .....	16.6	16.1	16.5	2.2	2.2	2.2	14.5	14.4	14.5
Saginaw-Bay City-Midland .....	44.3	42.9	43.8	6.5	6.4	6.4	40.5	41.9	42.5
<b>Minnesota</b> .....	403.5	389.9	398.5	110.1	109.0	109.4	526.3	516.3	524.7
Duluth .....	8.7	9.0	9.1	6.1	5.9	5.9	25.2	23.8	23.9
Minneapolis-St. Paul .....	262.7	254.5	256.7	77.6	76.0	76.5	333.5	328.2	331.5
Rochester .....	12.3	11.6	12.3	1.9	1.9	1.9	13.6	13.4	13.6
St. Cloud .....	15.0	14.6	15.4	4.0	4.1	4.2	23.1	23.3	23.6
<b>Mississippi</b> .....	249.4	241.8	245.6	45.7	45.2	45.4	199.5	201.7	203.3
Jackson .....	22.2	20.9	21.3	12.9	13.0	13.1	43.6	44.3	44.5
<b>Missouri</b> .....	444.1	416.5	419.1	154.2	152.9	152.4	566.1	553.9	558.1
Kansas City .....	111.0	107.2	109.2	63.5	63.5	64.4	200.2	197.2	199.0
St. Louis .....	227.5	213.8	212.4	78.7	77.3	77.4	285.5	278.3	281.8
Springfield .....	22.0	21.2	21.4	7.6	7.5	7.5	34.4	34.6	34.7
<b>Montana</b> .....	22.5	22.0	22.9	20.4	20.5	20.3	80.7	79.4	81.3
<b>Nebraska</b> .....	98.3	101.1	102.1	46.1	46.0	46.4	168.1	192.4	192.7
Lincoln .....	14.7	15.0	14.9	6.8	7.0	7.1	26.1	26.3	26.1
Omaha .....	36.6	38.9	39.5	23.5	23.5	23.7	62.5	64.3	65.1
<b>Nevada</b> .....	26.5	26.4	26.4	32.4	33.9	34.1	124.4	126.7	129.6
Las Vegas .....	10.9	10.2	10.1	19.4	20.5	20.5	75.5	78.2	78.5
Reno .....	8.6	8.9	6.8	9.6	9.8	9.9	33.4	33.6	33.8
<b>New Hampshire</b> .....	107.3	99.4	100.4	18.2	17.1	17.2	133.0	119.1	121.1
Manchester .....	11.4	10.8	10.9	4.7	4.6	4.6	21.8	20.2	20.0
Nashua .....	31.2	26.5	28.7	2.4	2.1	2.3	22.4	19.4	19.6
Portsmouth-Dover-Rochester .....	20.9	20.0	20.2	3.2	2.8	2.9	30.6	27.6	28.2
<b>New Jersey</b> .....	605.2	559.4	562.8	239.4	234.0	236.4	687.0	648.4	661.9
Atlantic City .....	7.7	6.9	7.0	7.3	7.2	7.3	43.5	36.2	42.4
Bergen-Passaic .....	137.2	127.0	127.3	31.3	29.1	29.4	185.5	178.4	179.6
Camden .....	67.9	63.6	63.3	18.3	19.2	19.5	120.4	117.4	118.6
Jersey City .....	40.2	35.7	35.6	30.7	28.6	28.3	63.2	61.8	61.8
Middlesex-Somerset-Hunterdon .....	108.8	103.3	103.6	42.9	42.5	43.2	134.4	128.9	129.7
Monmouth-Ocean .....	25.9	23.4	23.7	15.2	15.5	15.8	94.6	68.7	95.1
Newark .....	158.6	148.5	149.1	78.0	76.0	77.3	188.4	181.5	182.5
Trenton .....	27.1	25.2	24.9	7.3	7.2	7.3	31.4	30.3	30.2
Vineland-Millville-Bridgeton .....	15.6	14.3	15.1	2.5	2.4	2.4	11.4	10.8	11.1

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Maine</b> .....	25.4	25.1	25.4	132.8	128.0	131.5	97.5	95.1	92.4
Lewiston-Auburn .....	2.3	2.2	2.2	10.5	10.7	10.3	4.4	4.3	4.3
Portland .....	12.2	12.4	12.4	34.9	31.5	33.0	15.8	15.9	15.1
<b>Maryland</b> .....	133.7	131.1	131.8	634.7	626.1	634.7	420.4	428.4	421.6
Baltimore MSA .....	77.0	75.2	75.5	333.4	332.5	332.2	219.6	220.2	216.5
Baltimore City .....	45.6	44.0	44.0	155.8	154.8	155.0	93.6	91.3	90.8
Suburban Maryland-D.C. ....	47.0	45.8	46.1	238.9	234.8	238.6	160.6	165.8	163.3
<b>Massachusetts</b> .....	217.1	207.8	208.5	927.8	906.4	906.4	407.2	388.9	387.0
Boston .....	147.3	138.6	138.8	594.8	581.9	581.8	207.6	195.2	196.3
Brockton .....	3.3	3.1	3.2	16.0	16.7	16.2	12.4	11.6	11.5
Fall River .....	3.4	3.2	3.2	11.1	11.2	11.1	6.7	7.0	6.5
Fitchburg-Leominster .....	1.5	1.4	1.4	9.0	8.4	8.5	5.1	4.5	4.4
Lawrence-Haverhill .....	6.0	5.6	5.7	36.9	35.6	35.8	21.1	19.9	19.8
Lowell .....	3.4	3.0	3.0	21.5	20.6	20.6	13.8	13.4	13.3
New Bedford .....	2.4	2.4	2.4	14.8	14.7	14.8	10.0	9.4	9.4
Pittsfield .....	1.9	1.9	1.9	13.0	12.8	13.4	5.1	5.0	5.0
Springfield .....	15.7	14.6	14.6	63.1	63.5	62.5	39.2	37.9	38.1
Worcester .....	14.4	13.8	13.9	51.8	49.6	49.6	24.6	23.9	23.7
<b>Michigan</b> .....	192.9	192.7	194.6	947.5	952.4	958.4	620.2	636.8	616.9
Ann Arbor .....	4.9	4.8	4.9	40.3	41.3	41.6	51.7	56.6	53.0
Battle Creek .....	3.5	3.5	3.5	12.4	12.7	12.7	11.6	11.7	11.2
Benton Harbor .....	2.7	2.7	2.7	14.9	16.2	15.5	8.9	9.3	9.0
Detroit .....	113.6	114.8	115.2	526.7	522.8	525.6	236.3	238.3	236.1
Flint .....	6.5	6.5	6.6	37.5	39.7	40.0	22.7	24.1	23.4
Grand Rapids .....	18.2	16.4	18.5	80.4	83.7	83.2	33.1	34.6	33.4
Jackson .....	1.8	1.8	1.8	11.1	11.2	11.3	10.4	10.2	9.9
Kalamazoo .....	5.4	5.6	5.6	28.8	29.4	29.4	16.3	16.8	16.4
Lansing-East Lansing .....	12.9	13.3	13.4	43.9	45.1	44.4	69.6	72.1	69.9
Muskegon .....	1.6	1.5	1.5	12.8	13.2	13.3	9.4	9.8	9.2
Saginaw-Bay City-Midland .....	6.2	6.6	6.6	39.0	39.3	39.7	21.2	21.3	21.1
<b>Minnesota</b> .....	124.9	125.7	127.0	555.7	570.8	572.8	345.1	352.0	348.2
Duluth .....	3.2	3.3	3.3	25.0	25.0	25.5	21.4	22.8	22.1
Minneapolis-St. Paul .....	97.2	98.0	99.1	371.6	382.3	384.6	190.9	193.7	194.0
Rochester .....	1.8	1.8	1.8	28.1	29.0	29.2	6.9	7.1	6.8
St. Cloud .....	2.4	2.6	2.5	17.3	18.7	17.6	12.4	13.8	12.4
<b>Mississippi</b> .....	39.0	38.9	39.1	187.0	166.5	171.0	197.2	208.4	197.6
Jackson .....	14.4	14.1	14.2	44.4	45.2	45.0	41.3	42.5	41.3
<b>Missouri</b> .....	140.5	138.9	140.5	582.9	589.3	591.8	361.5	379.7	362.3
Kansas City .....	60.2	59.6	60.2	199.4	200.9	201.7	122.6	124.7	123.7
St. Louis .....	77.4	75.9	76.2	325.5	333.6	335.5	139.5	149.1	139.1
Springfield .....	5.4	5.3	5.4	32.1	33.3	33.4	14.6	16.0	16.0
<b>Montana</b> .....	13.7	13.4	13.6	77.8	76.2	78.1	73.2	73.0	72.1
<b>Nebraska</b> .....	48.8	49.7	50.1	178.9	192.3	193.4	147.0	153.5	152.3
Lincoln .....	8.5	8.5	8.8	28.2	29.8	29.8	32.7	35.2	34.0
Omaha .....	26.9	29.2	29.5	99.4	105.5	106.7	47.3	50.2	49.4
<b>Nevada</b> .....	26.6	26.9	29.1	273.9	274.5	276.2	75.2	83.9	60.9
Las Vegas .....	18.5	19.1	19.2	176.6	182.9	183.6	38.2	43.6	41.8
Reno .....	7.3	7.3	7.4	58.7	56.3	56.8	18.2	19.9	19.1
<b>New Hampshire</b> .....	32.1	30.7	30.9	130.0	126.3	128.8	71.9	75.8	73.2
Manchester .....	8.6	8.3	8.3	23.7	23.3	23.1	8.9	9.0	9.0
Nashua .....	3.6	3.3	3.5	20.1	20.3	20.1	7.8	7.8	7.6
Portsmouth-Dover-Rochester .....	7.3	7.1	7.1	24.0	22.4	23.3	25.1	26.2	24.7
<b>New Jersey</b> .....	242.6	233.8	237.0	1,008.8	1,001.2	1,017.1	584.9	575.0	575.7
Atlantic City .....	6.9	6.5	6.7	88.3	79.9	82.7	28.3	27.5	28.5
Bergen-Passaic .....	36.5	36.0	36.6	166.3	166.8	168.2	72.6	70.3	69.9
Camden .....	24.9	24.4	24.7	119.9	119.2	121.5	78.8	78.5	78.1
Jersey City .....	16.8	16.4	16.5	50.2	50.7	50.6	42.2	40.7	41.2
Middlesex-Somerset-Hunterdon .....	42.7	41.9	43.1	124.0	126.7	128.5	77.6	78.6	76.8
Monmouth-Ocean .....	19.9	18.8	19.2	105.2	103.1	107.0	69.8	66.5	69.0
Newark .....	75.9	73.6	73.9	271.6	272.5	275.7	136.9	135.9	134.2
Trenton .....	11.3	11.1	11.5	61.0	60.8	61.7	57.2	56.3	58.3
Vineland-Millville-Bridgeton .....	4.3	4.4	4.4	11.1	11.4	11.4	12.9	12.9	12.9

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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>New Mexico</b> .....	579.1	584.8	583.4	15.5	16.0	16.2	30.5	30.1	30.8
Albuquerque .....	246.6	248.3	247.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.5	12.8	13.0
Las Cruces .....	43.5	44.8	43.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.1	2.1
Santa Fe .....	62.1	61.1	62.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.0	3.1
<b>New York</b> .....	8,344.3	8,100.8	8,159.2	5.8	5.3	5.4	335.4	291.1	302.8
Albany-Schenectady-Troy .....	442.3	431.3	433.6	.4	.3	.3	21.5	16.7	17.3
Binghamton .....	120.5	116.4	116.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	4.4	4.5
Buffalo .....	469.0	462.8	466.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.4	18.8	20.1
Elmira .....	42.3	39.9	40.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.5	1.6
Glens Falls .....	50.8	46.4	49.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.2	2.2
Nassau-Suffolk .....	1,150.1	1,110.1	1,122.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	56.3	49.9	50.8
New York PMSA .....	4,146.5	4,023.7	4,035.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	146.4	126.4	128.0
New York City .....	3,606.4	3,503.8	3,510.8	.2	.2	.2	115.5	100.8	101.8
Niagara Falls .....	88.4	85.5	86.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.0	4.3
Orange County .....	110.0	105.3	106.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	3.8	4.0
Poughkeepsie .....	122.6	120.5	120.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.5	5.5	5.6
Rochester .....	497.4	492.1	493.6	.8	.7	.7	20.9	18.4	19.1
Rockland County .....	104.0	100.1	100.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	3.7	3.8
Syracuse .....	320.8	312.1	313.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.2	13.7	14.6
Utica-Rome .....	131.4	124.8	125.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.1	4.4
Westchester County .....	416.7	400.7	405.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.3	20.2	20.6
<b>North Carolina</b> .....	3,165.5	3,109.4	3,119.3	5.4	5.2	5.2	169.1	158.4	160.0
Asheville .....	89.7	66.0	89.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	4.5	4.6
Charlotte-Gastonia-Rock Hill .....	634.5	629.0	630.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	37.8	36.5	36.9
Greensboro-Winston-Salem-High Point .....	502.2	492.2	493.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.6	23.7	23.7
Raleigh-Durham .....	432.9	430.1	430.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.7	21.5	21.7
<b>North Dakota</b> .....	269.6	272.7	272.7	4.4	4.6	4.8	11.7	10.9	12.0
Bismarck .....	40.7	41.7	42.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.4	2.5
Fargo-Moorhead .....	77.7	80.8	79.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	3.8	4.3
Grand Forks .....	30.7	32.7	31.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.1	1.2
<b>Ohio</b> .....	4,956.0	4,947.0	4,979.9	17.9	16.9	17.2	207.4	201.3	210.9
Akron .....	285.3	292.2	288.8	.7	.6	.6	11.2	10.6	11.1
Canton .....	168.2	167.1	167.8	.8	.8	.8	7.9	7.7	8.1
Cincinnati .....	751.5	758.3	763.2	.4	.4	.4	35.0	34.0	34.7
Cleveland .....	965.2	953.4	965.3	.8	.5	.7	36.8	35.1	37.0
Columbus .....	731.9	734.5	742.5	.9	.9	.9	30.9	29.5	31.0
Dayton-Springfield .....	455.3	453.3	453.8	.4	.4	.4	16.9	15.9	16.5
Toledo .....	293.1	266.9	292.1	.2	.2	.2	12.2	11.6	11.8
Youngstown-Warren .....	202.0	199.3	200.3	.4	.4	.4	8.9	7.8	8.3
<b>Oklahoma</b> .....	1,193.7	1,196.5	1,198.0	44.3	43.1	43.3	38.7	34.5	35.9
Enid .....	21.5	21.2	21.3	.9	.9	.8	.7	.6	.6
Lawton .....	34.9	35.6	35.4	.2	.3	.3	1.0	1.0	1.0
Oklahoma City .....	429.9	429.9	428.9	10.3	9.5	9.1	12.2	11.6	12.0
Tulsa .....	321.8	320.6	323.3	12.0	12.2	12.3	12.0	11.2	12.1
<b>Oregon</b> .....	1,264.3	1,261.3	1,276.4	1.6	1.7	1.8	53.5	53.2	55.6
Eugene-Springfield .....	121.0	117.5	118.5	.2	.2	.2	4.1	3.9	4.1
Medford .....	54.8	53.3	54.2	.1	.1	.1	2.0	1.9	2.1
Portland .....	643.2	645.2	650.9	.6	.6	.6	30.0	28.6	29.6
Salem .....	109.5	108.5	109.2	.1	.1	.1	5.0	4.5	4.7
<b>Pennsylvania</b> .....	5,210.9	5,149.2	5,163.9	28.2	26.4	26.6	239.5	222.4	229.6
Allentown-Bethlehem .....	291.4	291.4	292.3	.6	.5	.6	13.8	12.8	13.1
Altoona .....	55.2	54.5	54.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.5	2.6
Beaver County .....	51.1	50.7	50.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.4	2.5
Erie .....	121.1	119.5	120.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	3.8	4.3
Harrisburg-Lebanon-Carlisle .....	317.7	315.7	317.5	.5	.4	.5	14.4	13.5	13.9
Johnstown .....	82.9	83.3	83.2	2.9	2.5	2.6	3.4	3.3	3.6
Lancaster .....	195.4	192.3	192.9	.4	.4	.4	12.7	12.0	12.4
Philadelphia PMSA .....	2,235.9	2,201.9	2,206.6	1.1	1.0	1.0	103.3	97.4	99.3
Philadelphia City .....	751.7	731.1	729.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.6	14.3	14.1
Pittsburgh .....	929.9	917.6	923.0	4.7	4.1	4.2	45.8	43.6	44.5

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>New Mexico</b> .....	43.6	43.1	43.2	28.2	28.8	28.3	138.7	138.3	139.2
Albuquerque .....	21.4	20.6	20.8	12.4	12.8	12.4	61.4	61.0	61.2
Las Cruces .....	3.6	3.4	3.5	1.4	1.6	1.4	9.3	9.2	9.2
Santa Fe .....	1.9	1.9	1.9	1.0	1.0	1.0	12.1	12.2	12.8
<b>New York</b> .....	1,149.5	1,082.2	1,087.4	433.3	429.1	433.3	1,714.1	1,637.5	1,652.9
Albany-Schenectady-Troy .....	47.0	46.3	48.7	17.4	17.0	17.1	93.0	90.9	91.1
Binghamton .....	34.4	32.3	32.5	4.4	4.2	4.3	25.4	25.0	25.0
Buffalo .....	75.7	72.2	72.2	23.6	23.5	23.9	116.3	115.6	115.6
Elmira .....	9.0	8.1	8.1	1.5	1.4	1.4	10.5	10.0	9.9
Glens Falls .....	10.3	9.8	9.8	1.9	1.6	1.7	11.8	10.5	11.6
Nassau-Suffolk .....	152.3	138.7	138.7	51.2	51.0	51.6	296.4	280.1	285.1
New York PMSA .....	418.4	392.8	394.4	254.0	249.6	251.3	733.0	699.1	700.7
New York City .....	343.9	322.7	324.0	227.0	222.2	223.7	613.3	584.6	585.4
Niagara Falls .....	23.6	21.8	21.9	4.3	4.2	4.3	21.4	21.0	21.4
Orange County .....	14.4	13.1	13.1	6.6	6.6	6.7	29.5	27.8	28.2
Poughkeepsie .....	29.8	29.5	29.6	3.9	3.8	3.7	22.6	21.6	21.8
Rochester .....	134.3	132.0	133.0	15.4	15.4	15.5	106.8	103.3	104.3
Rockland County .....	15.1	14.6	14.7	5.3	5.2	5.3	23.6	22.4	22.8
Syracuse .....	53.2	49.4	49.6	19.8	18.8	18.8	77.1	77.1	77.7
Utica-Rome .....	24.3	21.5	21.7	4.6	4.2	4.3	28.5	27.5	28.0
Westchester County .....	57.3	53.3	53.6	21.0	21.5	21.6	91.7	87.7	88.1
<b>North Carolina</b> .....	868.4	830.3	833.9	152.3	153.2	153.2	725.1	710.2	712.4
Asheville .....	20.4	20.0	19.8	4.2	4.1	4.1	21.7	21.5	21.4
Charlotte-Gastonia-Rock Hill .....	155.3	147.4	148.2	51.6	51.3	51.3	154.4	151.9	152.4
Greensboro-Winston-Salem-High Point .....	149.1	143.8	144.7	26.5	25.4	25.3	114.7	112.8	112.9
Raleigh-Durham .....	64.3	63.3	64.2	21.4	21.6	21.6	90.5	89.7	89.6
<b>North Dakota</b> .....	17.3	17.4	17.6	17.3	17.0	17.1	71.3	72.2	72.5
Bismarck .....	2.3	2.4	2.4	2.8	2.9	2.9	10.6	10.5	10.6
Fargo-Moorhead .....	5.7	5.5	5.6	4.8	4.9	4.9	22.5	23.4	23.3
Grand Forks .....	1.5	1.8	1.7	1.7	1.8	1.8	9.1	9.3	9.3
<b>Ohio</b> .....	1,128.7	1,080.2	1,090.0	221.1	220.9	222.2	1,184.6	1,177.9	1,168.8
Akron .....	67.1	66.5	66.6	13.9	13.9	14.0	69.5	68.8	69.3
Canton .....	45.1	43.6	43.9	5.7	5.8	5.8	42.1	41.4	41.9
Cincinnati .....	148.5	145.6	145.8	41.2	42.1	42.4	190.0	190.5	192.3
Cleveland .....	206.6	201.8	203.0	43.2	43.2	43.5	230.1	227.8	230.9
Columbus .....	105.3	104.0	104.7	30.8	30.6	30.8	183.9	183.9	185.1
Dayton-Springfield .....	104.3	98.7	99.0	18.3	18.8	18.9	102.9	103.5	104.2
Toledo .....	80.7	53.4	58.3	14.9	14.7	14.5	72.9	71.3	71.9
Youngstown-Warren .....	50.5	47.9	48.3	7.4	7.0	7.1	53.9	53.4	53.9
<b>Oklahoma</b> .....	167.5	166.7	167.5	68.0	67.2	68.1	280.5	277.3	280.2
Enid .....	1.6	1.5	1.6	2.1	2.1	2.1	6.2	6.0	6.0
Lawton .....	3.5	3.5	3.5	1.7	1.7	1.7	8.6	9.2	9.0
Oklahoma City .....	48.6	47.9	47.3	21.2	20.6	21.0	103.1	102.3	102.1
Tulsa .....	56.7	56.4	56.7	25.7	26.0	26.2	74.6	74.2	75.5
<b>Oregon</b> .....	221.9	205.6	210.2	84.1	64.4	65.0	313.9	314.8	317.5
Eugene-Springfield .....	20.8	18.6	18.9	4.5	4.4	4.4	30.8	29.7	29.8
Medford .....	9.1	7.3	7.7	3.0	2.8	3.0	15.4	16.0	15.7
Portland .....	105.1	101.9	103.2	38.0	38.0	38.4	164.7	165.8	167.6
Salem .....	15.8	13.9	14.5	2.9	2.9	2.9	24.1	24.0	24.4
<b>Pennsylvania</b> .....	1,023.2	969.0	973.3	267.6	269.7	269.1	1,184.3	1,171.2	1,181.2
Allentown-Bethlehem .....	74.9	73.6	73.9	15.0	14.8	15.0	63.5	64.0	64.4
Altoona .....	11.2	10.7	10.7	4.7	4.7	4.1	14.1	14.3	14.3
Beaver County .....	9.4	9.0	9.0	5.3	4.9	5.0	11.8	11.9	12.2
Erie .....	36.7	35.6	35.6	4.4	4.3	4.5	26.3	25.9	26.0
Harrisburg-Lebanon-Carlisle .....	50.1	47.1	47.4	20.1	20.8	20.9	70.2	66.3	66.7
Johnstown .....	14.3	14.6	14.5	5.4	5.4	5.1	16.5	18.4	18.8
Lancaster .....	58.2	55.3	55.6	7.5	7.7	7.6	49.3	47.6	47.9
Philadelphia PMSA .....	349.8	330.0	330.4	101.3	100.1	100.3	507.9	499.1	497.7
Philadelphia City .....	81.8	76.4	76.8	40.4	39.9	39.6	138.1	128.2	128.0
Pittsburgh .....	120.2	115.6	115.1	54.9	55.2	54.9	227.3	219.1	224.6

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	Finance, insurance, and real estate			Services			Government		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>New Mexico</b> .....	26.3	25.9	26.2	149.3	149.0	151.2	147.0	153.4	148.3
Albuquerque .....	14.0	13.8	14.0	75.6	77.0	77.5	48.3	50.3	48.7
Las Cruces .....	1.6	1.6	1.6	7.8	8.2	8.3	17.5	18.7	17.4
Santa Fe .....	2.4	2.3	2.3	16.9	16.2	17.1	24.4	24.5	24.6
<b>New York</b> .....	785.9	756.9	764.1	2,414.9	2,424.0	2,438.4	1,505.4	1,474.6	1,474.8
Albany-Schenectady-Troy .....	25.3	25.4	26.0	118.8	120.6	120.9	118.9	114.0	114.1
Binghamton .....	4.2	4.1	4.1	25.5	25.0	25.3	21.3	21.5	21.0
Buffalo .....	27.7	27.8	28.0	127.8	128.5	130.0	77.5	76.4	76.3
Elmira .....	1.5	1.5	1.5	10.6	10.4	10.4	7.5	7.1	7.2
Glens Falls .....	1.7	1.8	1.8	12.6	11.3	12.7	9.9	9.5	9.5
Nassau-Suffolk .....	82.0	81.2	82.1	319.3	321.5	325.4	192.4	187.8	188.7
New York PMSA .....	557.8	532.4	535.8	1,332.2	1,334.3	1,338.2	704.8	689.1	687.7
New York City .....	521.4	496.6	499.4	1,187.8	1,171.0	1,172.3	617.5	605.8	603.9
Niagara Falls .....	2.0	2.1	2.1	19.1	19.1	19.2	13.7	13.3	13.2
Orange County .....	5.0	4.9	5.0	24.6	24.7	24.9	25.2	24.4	24.3
Poughkeepsie .....	4.8	4.8	4.8	29.4	30.7	30.4	25.8	24.8	24.8
Rochester .....	23.8	22.9	23.5	125.6	129.6	128.4	69.8	69.9	69.2
Rockland County .....	5.4	5.3	5.3	27.6	27.6	27.8	22.4	21.2	21.2
Syracuse .....	20.7	21.3	21.4	77.8	78.3	77.0	54.9	53.5	54.0
Utica-Rome .....	7.5	7.6	7.7	29.1	29.1	29.3	32.6	30.8	30.4
Westchester County .....	30.2	29.7	30.0	131.5	130.4	132.9	60.7	57.9	58.4
<b>North Carolina</b> .....	135.9	134.5	135.7	803.0	609.2	614.7	506.3	508.4	504.2
Asheville .....	3.0	2.9	2.9	22.6	21.9	23.4	13.2	13.1	13.2
Charlotte-Gastonia-Rock Hill .....	38.6	37.9	38.2	124.0	129.9	130.3	72.8	74.1	73.3
Greensboro-Winston-Salem-High Point .....	24.5	23.7	23.9	104.2	106.0	107.4	57.6	56.8	55.8
Raleigh-Durham .....	24.5	24.0	23.9	115.2	115.8	116.0	94.3	94.2	93.3
<b>North Dakota</b> .....	12.5	12.7	12.7	69.3	70.7	71.3	65.6	67.2	64.7
Bismarck .....	1.5	1.5	1.5	12.3	12.8	12.8	9.1	9.2	9.6
Fargo-Moorhead .....	4.6	4.7	4.7	21.3	22.9	22.2	14.4	15.6	14.9
Grand Forks .....	1.1	1.1	1.1	7.1	7.6	7.7	8.8	10.0	8.6
<b>Ohio</b> .....	257.3	256.6	259.3	1,214.9	1,242.8	1,259.7	726.1	750.4	731.8
Akron .....	10.9	10.9	10.9	71.1	73.1	75.2	41.0	47.9	41.2
Canton .....	6.8	6.7	6.7	40.5	41.4	41.7	19.3	19.7	18.9
Cincinnati .....	44.2	44.1	44.6	196.0	203.0	206.9	94.0	96.6	96.0
Cleveland .....	58.5	58.3	59.0	264.1	265.7	269.2	123.1	121.0	122.0
Columbus .....	61.3	60.9	61.5	185.3	191.3	193.5	133.5	133.3	134.9
Dayton-Springfield .....	17.5	17.7	17.9	117.9	120.3	121.2	77.0	78.1	75.6
Toledo .....	12.2	12.2	12.2	77.4	79.7	80.8	42.6	45.9	42.5
Youngstown-Warren .....	8.5	8.3	8.4	48.4	49.1	49.6	24.1	25.5	24.3
<b>Oklahoma</b> .....	59.6	57.9	58.4	275.1	279.4	282.9	260.0	270.4	261.7
Enid .....	.9	.9	.9	5.2	5.2	5.4	3.9	4.0	3.9
Lawton .....	1.8	1.6	1.6	6.2	6.3	6.3	11.9	12.0	12.0
Oklahoma City .....	24.7	24.6	24.6	108.1	109.3	110.3	101.7	104.1	102.5
Tulsa .....	17.6	17.4	17.5	83.4	83.6	84.8	39.6	39.4	38.2
<b>Oregon</b> .....	79.9	81.7	82.8	295.6	306.2	307.7	233.8	233.7	235.8
Eugene-Springfield .....	5.7	5.7	5.8	29.0	29.2	29.1	25.9	25.8	26.2
Medford .....	2.6	2.5	2.5	12.7	12.8	13.2	9.9	9.9	9.9
Portland .....	51.8	52.2	52.8	165.6	170.2	170.1	67.4	67.9	68.6
Salem .....	6.0	6.0	6.1	23.1	24.4	24.0	32.5	32.7	32.5
<b>Pennsylvania</b> .....	302.1	300.3	303.6	1,457.3	1,480.3	1,488.4	706.7	709.9	691.9
Allentown-Bethlehem .....	14.7	15.0	15.1	76.1	76.4	78.3	32.8	32.3	31.9
Altoona .....	2.3	2.3	2.4	12.6	12.6	12.6	7.7	7.4	7.6
Beaver County .....	1.6	1.6	1.6	12.2	12.9	12.7	8.2	8.0	7.8
Erie .....	5.8	5.6	5.6	30.4	30.6	31.2	13.3	13.7	13.2
Harrisburg-Lebanon-Carlisle .....	21.2	22.1	22.3	73.2	74.4	75.5	68.0	69.1	68.3
Johnstown .....	4.7	4.6	4.7	20.8	21.5	21.4	12.9	13.0	12.7
Lancaster .....	7.9	8.0	8.1	42.7	43.9	44.2	16.7	17.4	16.7
Philadelphia PMSA .....	164.0	160.1	161.8	697.9	707.9	712.7	310.6	306.3	303.4
Philadelphia City .....	65.1	62.4	63.1	264.4	269.4	267.7	145.3	140.5	140.4
Pittsburgh .....	55.9	55.9	56.4	312.3	316.8	317.2	106.8	107.3	106.1

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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Pennsylvania—Continued</b>									
Reading .....	155.2	152.7	153.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.7	7.1	7.5
Scranton-Wilkes-Barre .....	310.3	305.7	306.7	0.6	0.6	0.6	14.7	13.4	13.9
Sharon .....	44.6	44.5	44.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.4	1.5
State College .....	58.1	62.4	57.7	.4	.4	.4	3.0	2.5	2.7
Williamsport .....	51.3	50.8	50.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.9	3.0
York .....	162.4	181.2	180.7	.5	.5	.5	10.7	9.8	10.0
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	458.6	438.4	438.8	.2	.2	.2	19.9	14.5	15.4
Providence .....	129.0	121.4	121.6	.2	.2	.2	4.8	3.3	3.4
	324.4	312.9	312.7	.1	.1	.1	14.8	11.4	12.2
<b>South Carolina</b>									
Charleston .....	1,568.8	1,568.2	1,569.0	2.1	2.0	2.0	104.6	96.7	97.0
Columbia .....	211.3	216.8	217.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.5	16.1	16.3
Greenville-Spartanburg .....	248.4	253.4	252.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.0	13.7	13.4
	340.8	340.0	340.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.4	25.6	26.1
<b>South Dakota</b>									
Rapid City .....	297.5	299.7	304.8	2.8	2.6	2.6	13.4	12.4	13.9
Sioux Falls .....	40.8	39.8	41.4	.3	.2	.2	2.4	2.6	2.7
	76.6	77.9	79.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.0	4.4
<b>Tennessee</b>									
Chattanooga .....	2,215.2	2,192.0	2,188.6	6.3	6.0	6.0	94.7	87.0	88.5
Johnson City-Kingsport-Bristol .....	202.7	200.6	200.3	.6	.6	.6	7.3	7.1	7.1
Knoxville .....	172.4	172.2	171.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.9	6.9	7.2
Memphis .....	270.9	264.9	266.0	1.4	1.3	1.3	13.6	11.9	11.9
Nashville .....	476.4	479.6	478.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.7	19.7	20.0
	504.5	504.3	503.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.3	24.4	24.8
<b>Texas</b>									
Abilene .....	7,055.6	7,122.8	7,143.0	180.2	182.3	182.1	337.2	339.9	343.0
Amarillo .....	47.6	48.6	47.6	1.5	1.5	1.5	1.5	1.5	1.5
Austin .....	78.8	78.4	77.5	1.1	1.0	1.0	3.3	2.9	3.1
Beaumont-Port Arthur .....	377.9	383.7	380.0	.7	.7	.7	12.4	12.4	12.6
Brazoria .....	142.4	148.0	148.5	1.8	1.9	1.9	11.3	13.4	13.9
Brownsville-Harlingen .....	66.9	88.2	67.9	2.0	2.0	2.0	9.2	9.0	9.0
Bryan-College Station .....	75.5	77.6	77.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.4	2.4
Corpus Christi .....	51.4	55.7	50.8	.6	.5	.5	2.0	1.8	1.9
Dallas .....	135.7	137.6	137.6	3.9	4.0	4.0	13.3	11.3	11.3
El Paso .....	1,375.8	1,376.0	1,376.3	18.1	18.0	16.2	47.4	47.1	47.8
Fl. Worth-Arlington .....	206.4	211.2	210.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.1	8.0	8.0
Galveston-Texas City .....	592.5	587.8	587.1	4.4	4.6	4.5	23.3	23.1	23.0
Houston .....	77.8	77.0	77.6	.8	.7	.7	4.4	4.0	4.1
Killeen-Temple .....	1,612.8	1,629.4	1,639.9	88.6	72.0	72.7	111.1	108.5	109.0
Laredo .....	74.7	73.8	74.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.4	2.5
Longview-Marshall .....	44.6	45.2	45.1	1.8	1.8	1.8	1.3	1.3	1.3
Lubbock .....	70.4	69.3	88.9	3.5	3.4	3.4	3.8	3.5	3.6
McAllen-Edinburg-Mission .....	97.3	98.9	97.6	.2	.2	.2	3.5	3.5	3.6
Midland .....	103.1	103.4	101.8	.8	.9	.9	4.7	4.5	4.5
Odessa .....	44.7	44.9	45.1	9.1	9.0	9.1	1.4	1.4	1.5
San Angelo .....	43.8	44.5	44.7	5.1	5.2	5.2	2.4	2.3	2.4
San Antonio .....	36.3	38.3	36.6	.5	.5	.5	1.1	1.0	1.1
Sherman-Denison .....	521.4	521.7	519.0	1.7	1.9	1.8	22.1	22.4	22.5
Texas City .....	38.0	37.8	37.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.4	1.4
Tyler .....	47.6	45.7	45.5	.1	.1	.1	1.5	1.3	1.4
Victoria .....	62.6	62.9	62.1	1.6	1.7	1.7	1.9	1.6	1.6
Waco .....	29.0	29.3	29.0	1.6	1.5	1.6	1.9	1.7	1.8
Wichita Falls .....	81.3	82.1	81.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.1	3.1
	50.1	50.1	49.9	1.4	1.4	1.4	1.8	1.7	1.7

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	46.4	43.4	43.8	6.7	6.7	8.8	34.2	34.0	34.3
Scranton-Wilkes-Barre .....	70.1	66.4	87.3	16.8	16.9	18.8	73.9	72.9	73.2
Sharon .....	11.9	11.6	11.8	2.2	2.2	2.1	11.0	10.8	11.1
State College .....	8.6	8.4	8.3	1.7	1.8	1.8	11.5	12.2	12.1
Williamsport .....	15.5	15.2	15.4	1.7	1.8	1.7	11.7	11.3	11.4
York .....	57.4	55.4	55.4	7.9	8.1	7.9	46.3	46.6	46.8
<b>Rhode Island</b> .....	100.2	92.1	93.0	16.1	15.3	15.7	100.0	94.5	94.9
Pawtucket-Woonsocket-Attleboro .....	46.2	43.4	43.5	3.9	3.5	3.6	32.6	30.5	30.6
Providence .....	63.4	59.2	60.0	12.1	11.9	12.2	66.6	62.0	61.9
<b>South Carolina</b> .....	366.4	367.9	369.1	68.3	66.9	67.3	357.6	352.7	357.0
Charleston .....	21.6	21.1	21.1	11.2	11.2	11.4	53.2	54.0	55.0
Columbia .....	28.1	27.8	27.8	11.4	11.3	11.6	56.0	58.1	56.5
Greenville-Spartanburg .....	99.9	96.1	96.5	14.8	14.7	14.9	79.2	79.7	80.4
<b>South Dakota</b> .....	34.7	34.8	35.5	13.1	13.8	13.3	78.1	79.7	81.4
Rapid City .....	4.1	3.8	3.9	1.9	1.9	1.5	11.9	11.5	12.5
Sioux Falls .....	9.0	9.6	9.8	4.9	4.9	4.8	21.2	21.6	21.7
<b>Tennessee</b> .....	527.2	512.1	511.5	118.3	117.4	118.0	522.1	514.2	517.5
Chattanooga .....	47.3	44.6	44.6	9.3	9.2	9.2	48.6	47.9	48.0
Johnson City-Kingsport-Bristol .....	54.3	51.7	52.2	6.0	6.3	6.3	40.0	39.3	39.4
Knoxville .....	50.1	47.4	47.5	11.5	11.5	11.6	71.7	69.7	70.2
Memphis .....	62.4	60.8	60.2	47.8	47.9	48.2	125.7	125.2	125.9
Nashville .....	89.8	87.2	87.5	26.8	26.8	26.9	123.4	123.9	124.2
<b>Texas</b> .....	987.5	974.2	978.1	423.9	429.1	432.4	1,713.5	1,712.1	1,719.8
Abilene .....	4.6	4.5	4.5	2.8	2.7	2.7	12.5	12.6	12.4
Amarillo .....	8.6	8.8	8.6	5.5	5.6	5.5	22.8	22.7	22.8
Austin .....	48.5	48.7	48.7	11.7	11.9	12.0	77.9	76.2	76.7
Beaumont-Port Arthur .....	25.4	25.7	25.8	9.6	9.6	9.6	32.6	33.3	33.3
Brazoria .....	16.7	16.8	17.0	2.9	3.0	3.0	12.6	13.0	13.1
Brownsville-Harlingen .....	11.8	11.7	12.0	3.2	3.5	3.5	20.5	20.7	20.8
Bryan-College Station .....	3.8	3.4	3.5	1.3	1.3	1.3	11.1	11.1	10.7
Corpus Christi .....	12.2	12.4	12.4	6.5	6.6	6.5	31.8	32.1	32.1
Dallas .....	221.3	214.5	214.4	82.8	83.0	83.4	352.3	352.0	354.2
El Paso .....	40.7	41.0	41.3	10.9	10.8	10.6	51.8	52.9	52.7
Ft. Worth-Arlington .....	118.1	106.3	105.4	55.0	56.5	56.7	152.2	150.2	150.4
Galveston-Texas City .....	9.0	8.6	8.5	5.3	5.4	5.2	15.6	15.5	15.8
Houston .....	174.5	176.7	177.8	110.3	113.2	113.9	376.3	372.2	374.8
Killeen-Temple .....	8.7	8.5	8.9	2.5	2.4	2.5	16.9	16.3	16.3
Laredo .....	1.7	1.6	1.8	8.2	8.3	6.2	14.0	14.0	14.0
Longview-Marshall .....	16.9	16.1	16.0	3.5	3.6	3.8	17.1	17.0	17.0
Lubbock .....	7.0	7.0	7.1	5.5	5.3	5.2	28.3	28.8	28.5
McAllen-Edinburg-Mission .....	13.7	13.0	12.9	3.0	3.1	3.1	32.0	32.4	31.7
Midland .....	2.2	2.3	2.3	2.5	2.4	2.4	10.5	10.6	10.8
Odessa .....	4.3	4.5	4.6	2.0	2.0	2.1	12.4	12.7	12.7
San Angelo .....	4.9	4.9	4.8	2.6	2.7	2.7	9.1	8.7	8.7
San Antonio .....	43.8	43.7	44.2	22.0	22.0	22.3	130.9	130.2	131.0
Sherman-Denison .....	11.2	10.8	10.9	1.5	1.6	1.6	7.9	7.8	8.0
Texarkana .....	7.0	6.5	6.5	2.4	2.4	2.4	11.0	11.0	11.0
Tyler .....	11.0	10.8	10.7	2.8	2.9	2.9	16.0	15.9	15.8
Victoria .....	3.0	3.1	3.1	1.4	1.4	1.3	7.7	7.7	7.8
Waco .....	15.7	15.7	15.7	3.4	3.4	3.4	19.1	19.5	19.5
Wichita Falls .....	8.4	8.0	8.1	2.7	2.7	2.7	11.4	11.6	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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	8.3	8.5	8.4	34.6	34.3	34.9	17.3	18.7	17.8
Scranton-Wilkes-Barre .....	14.0	13.5	13.8	78.6	80.0	80.7	41.6	42.0	40.6
Sharon .....	1.4	1.4	1.4	11.1	11.6	10.9	5.4	5.5	5.5
State College .....	2.0	1.9	2.0	11.3	11.1	11.3	19.6	23.8	19.1
Williamsport .....	2.3	2.4	2.4	10.7	10.3	10.3	6.6	6.9	6.5
York .....	5.4	5.4	5.4	35.2	35.9	35.9	19.0	19.5	18.8
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	27.3	26.3	26.6	130.4	130.7	128.2	64.5	64.6	64.8
Providence .....	3.8	3.5	3.5	26.5	25.3	25.2	11.0	11.7	11.6
Providence .....	22.5	21.8	22.2	97.2	99.3	97.0	47.7	47.2	47.1
<b>South Carolina</b>									
Charleston .....	67.5	65.9	66.9	300.7	315.7	318.3	281.6	300.4	293.4
Columbia .....	7.9	6.1	6.2	46.9	49.7	50.0	54.0	56.8	55.4
Columbia .....	18.2	18.3	18.5	53.1	55.6	56.0	66.8	70.6	66.9
Greenville-Spartanburg .....	12.1	12.0	12.1	65.7	68.4	67.2	42.7	43.5	43.0
<b>South Dakota</b>									
Rapid City .....	16.3	16.6	16.6	73.9	74.5	75.7	65.2	65.3	65.6
Rapid City .....	1.5	1.5	1.8	11.3	10.7	11.5	7.4	7.8	7.5
Sioux Falls .....	8.1	6.3	8.3	20.9	21.4	21.8	6.4	6.1	6.6
<b>Tennessee</b>									
Chattanooga .....	103.7	101.8	102.7	496.6	498.7	501.9	346.1	354.6	342.5
Chattanooga .....	13.0	13.5	13.6	42.5	42.7	42.4	34.1	35.0	34.8
Johnson City-Kingsport-Bristol .....	5.3	5.1	5.2	34.6	36.4	36.1	25.1	26.5	25.5
Knoxville .....	10.2	10.3	10.4	59.9	61.1	62.0	52.5	51.7	51.1
Memphis .....	25.2	25.3	25.6	121.6	123.0	124.0	73.0	77.7	74.2
Nashville .....	31.2	30.5	30.5	140.6	141.9	142.6	67.4	69.6	66.5
<b>Texas</b>									
Arlene .....	432.7	427.6	428.4	1,716.5	1,733.1	1,750.1	1,262.1	1,324.3	1,309.1
Arlene .....	1.9	2.0	2.0	13.7	14.6	14.0	9.1	9.2	9.0
Amarillo .....	4.3	4.3	4.2	18.2	17.9	18.4	15.0	15.2	13.9
Austin .....	23.6	23.3	23.3	97.5	96.6	99.7	105.4	111.7	106.3
Beaumont-Port Arthur .....	5.4	5.4	5.5	35.1	36.9	37.4	21.2	21.8	21.1
Brazoria .....	1.8	1.8	1.8	9.9	10.0	10.1	11.6	12.6	11.9
Brownsville-Harlingen .....	3.5	3.7	3.6	17.4	17.7	17.9	16.6	17.9	17.2
Bryan-College Station .....	1.8	1.8	1.8	10.4	10.9	10.7	20.8	24.9	20.4
Corpus Christi .....	6.3	6.3	6.3	32.0	33.6	34.0	29.7	31.5	31.0
Dallas .....	126.3	123.2	123.6	367.7	374.1	373.7	159.9	164.1	161.0
El Paso .....	6.4	6.3	6.2	43.6	44.9	45.1	42.9	45.3	44.0
Ft. Worth-Arlington .....	27.5	27.1	27.0	136.1	140.7	142.7	73.9	79.3	77.4
Galveston-Texas City .....	5.1	5.1	5.1	15.2	14.8	15.2	22.6	22.9	23.0
Houston .....	103.2	102.1	102.6	461.7	469.5	475.4	207.1	215.2	213.9
Killeen-Temple .....	3.4	3.4	3.4	17.6	17.6	17.8	22.8	23.0	23.1
Laredo .....	1.6	1.7	1.7	7.9	8.3	8.4	9.9	10.2	10.1
Longview-Marshall .....	2.7	2.6	2.6	14.0	14.1	14.0	6.9	9.0	6.7
Lubbock .....	5.6	5.7	5.6	25.4	25.1	25.1	21.8	23.3	22.3
McAllen-Edinburg-Mission .....	4.2	3.9	3.9	17.9	16.6	16.4	26.8	27.0	26.4
Midland .....	2.5	2.3	2.3	9.6	9.7	9.6	6.9	7.2	6.9
Odessa .....	1.5	1.3	1.3	8.2	6.2	6.3	7.9	8.3	6.1
San Angelo .....	1.7	1.7	1.7	8.9	8.9	9.3	7.5	7.9	7.6
San Antonio .....	39.8	37.6	37.7	142.1	141.3	141.1	119.0	122.4	118.4
Sherman-Denison .....	2.0	2.1	2.1	9.5	9.6	9.2	4.4	4.5	4.3
Texarkana .....	1.8	1.7	1.7	11.2	11.2	11.2	12.6	11.5	11.2
Tyler .....	3.6	3.5	3.4	16.1	16.3	16.3	9.6	10.2	9.7
Victoria .....	1.6	1.6	1.6	6.4	6.6	6.6	5.4	5.5	5.0
Waco .....	5.3	5.3	5.2	21.7	21.6	21.5	12.9	13.5	12.6
Wichita Falls .....	2.1	2.1	2.1	12.6	12.7	12.7	9.7	9.9	9.7

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	Total			Mining			Construction		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Utah</b> .....	729.5	748.9	754.0	8.7	8.7	8.4	29.0	29.5	30.5
Provo-Orem .....	92.5	96.7	96.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.8	4.0
Salt Lake City-Ogden .....	499.1	508.5	511.7	2.8	2.9	3.0	19.9	20.7	21.1
<b>Vermont</b> .....	259.7	247.5	249.0	.6	.5	.5	15.9	13.1	13.7
Barre-Montpelier .....	34.8	33.4	33.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	1.9	2.0
Burlington .....	80.7	78.4	77.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	3.8	4.0
<b>Virginia</b> .....	2,939.8	2,871.5	2,890.4	15.8	14.9	14.7	189.3	162.4	165.5
Bristol .....	34.8	34.9	35.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.2	1.2
Charlottesville .....	71.9	71.1	71.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	3.8	3.9
Danville .....	41.9	40.1	40.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.0	2.0
Lynchburg .....	78.1	78.2	78.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	3.8	3.8
Norfolk-Virginia Beach-Newport News .....	600.1	580.2	588.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	36.3	32.5	33.2
Northern Virginia .....	790.1	760.8	765.1	.8	.5	.5	55.8	41.8	42.0
Richmond-Petersburg .....	480.6	476.3	480.0	.8	.7	.7	31.5	29.1	29.7
Roanoke .....	126.9	126.9	127.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	7.3	7.4
<b>Washington</b> .....	2,183.3	2,198.6	2,207.2	3.8	3.7	3.8	122.7	119.2	120.5
Seattle .....	1,121.3	1,128.2	1,135.4	.6	.6	.6	63.6	62.1	63.1
<b>West Virginia</b> .....	634.7	636.0	634.6	36.1	34.4	34.2	27.9	29.5	29.2
Charleston .....	112.6	113.0	113.6	2.2	2.3	2.3	4.8	4.9	5.0
Huntington-Ashland .....	112.4	112.3	111.8	1.5	1.6	1.6	5.4	5.4	5.3
Parkersburg-Marietta .....	62.6	62.7	62.5	.5	.5	.5	3.1	2.9	3.0
Wheeling .....	81.1	81.0	81.1	2.3	2.3	2.3	2.0	1.9	2.0
<b>Wisconsin</b> .....	2,312.4	2,299.0	2,326.7	2.6	2.4	2.5	86.8	81.8	85.1
Appleton-Oshkosh-Neenah .....	162.5	163.4	166.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	8.5	9.0
Eau Claire .....	58.9	59.8	59.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.7	2.9
Green Bay .....	106.8	107.5	109.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.8	6.2
Janesville-Beloit .....	60.7	58.5	58.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.5	1.5
Kenosha .....	41.8	42.9	42.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.8	1.7
La Crosse .....	52.8	53.8	53.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.5	1.5
Madison .....	221.4	226.0	226.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.0	8.5	8.6
Milwaukee .....	780.1	758.5	762.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.2	25.2	25.6
Racine .....	78.3	77.3	78.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.1	2.2
Sheboygan .....	53.0	52.7	54.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.4	1.7
Wausau .....	52.8	53.7	54.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.3	2.4
<b>Wyoming</b> .....	208.9	203.8	211.8	18.5	18.3	18.9	12.5	11.9	13.2
Casper .....	29.2	29.3	29.7	2.4	2.5	2.6	1.8	1.7	1.8
<b>Puerto Rico</b> .....	675.2	636.3	661.7	1.0	.9	.9	46.6	46.8	47.0
Caguas .....	55.8	53.9	55.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.3	1.4
Mayaguez .....	60.0	58.7	60.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.4	2.3
Ponce .....	57.8	55.1	56.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	3.9	3.9
San Juan .....	533.1	515.8	522.2	.6	.5	.5	32.7	33.4	33.3
<b>Virgin Islands</b> .....	43.5	42.2	42.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	3.5	3.5

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Utah</b> .....	107.7	108.3	108.7	42.2	42.6	42.9	173.5	175.9	178.3
Provo-Orem .....	14.4	14.2	14.1	2.6	2.4	2.3	21.5	22.8	23.2
Salt Lake City-Ogden .....	69.8	69.8	69.9	32.8	33.2	33.5	122.0	120.7	122.5
<b>Vermont</b> .....	46.7	44.0	44.5	11.2	10.7	10.9	60.1	57.0	57.4
Barre-Montpelier .....	4.6	4.4	4.4	.9	.9	1.0	7.5	7.1	7.2
Burlington .....	16.0	15.1	15.2	3.7	3.4	3.3	19.4	19.3	19.0
<b>Virginia</b> .....	429.7	409.9	413.3	150.2	148.0	149.1	661.8	644.2	648.6
Bristol .....	10.9	10.8	11.0	1.5	1.5	1.6	8.9	8.7	8.7
Charlottesville .....	9.1	8.5	8.5	2.6	2.6	2.6	15.0	14.7	14.7
Danville .....	15.7	14.1	14.3	1.1	1.2	1.2	8.7	8.6	8.6
Lynchburg .....	23.7	23.0	22.9	2.9	2.8	2.8	16.7	16.0	16.2
Norfolk-Virginia Beach-Newport News .....	67.8	64.0	66.0	28.0	27.6	28.1	146.3	138.6	140.1
Northern Virginia .....	35.4	33.3	33.3	52.0	50.1	50.6	176.9	170.8	172.0
Richmond-Petersburg .....	65.1	63.8	63.9	24.1	23.7	24.1	109.1	106.6	107.4
Roanoke .....	19.9	19.2	19.2	8.3	8.2	8.2	34.5	34.2	34.4
<b>Washington</b> .....	372.5	365.0	366.2	114.9	115.6	115.9	530.4	521.1	527.6
Seattle .....	222.2	219.6	220.0	69.7	69.0	69.5	265.3	264.7	267.3
<b>West Virginia</b> .....	89.3	84.1	84.5	38.2	37.6	37.4	146.5	144.3	145.3
Charleston .....	11.0	10.6	10.7	9.1	9.2	9.2	29.4	29.4	29.8
Huntington-Ashland .....	20.6	19.5	19.6	8.6	8.2	8.2	28.4	27.9	27.9
Parkersburg-Marietta .....	14.8	14.2	14.2	2.5	2.5	2.5	14.9	15.2	15.1
Wheeling .....	7.5	7.3	7.4	3.4	3.3	3.3	16.1	16.2	16.2
<b>Wisconsin</b> .....	567.3	545.1	558.1	107.1	108.9	109.7	546.5	538.9	547.0
Appleton-Oshkosh-Neenah .....	54.9	52.4	53.8	6.3	6.4	6.9	34.6	34.9	35.0
Eau Claire .....	11.0	10.9	11.0	3.3	3.2	3.2	15.5	15.5	15.2
Green Bay .....	23.8	22.3	23.4	7.7	7.8	7.9	27.6	27.4	27.7
Janesville-Beloit .....	19.3	16.4	16.7	2.4	2.2	2.1	14.7	14.8	14.9
Kenosha .....	9.9	9.8	9.7	1.5	1.4	1.5	11.2	11.8	12.0
La Crosse .....	10.7	10.6	10.8	2.5	2.4	2.6	14.0	14.4	14.3
Madison .....	26.2	26.2	26.9	8.1	8.8	8.8	49.9	50.3	50.9
Milwaukee .....	174.5	170.3	170.5	37.5	37.9	37.7	173.8	172.2	173.9
Racine .....	26.7	25.6	25.6	2.3	2.3	2.2	18.0	18.2	18.5
Sheboygan .....	22.4	22.4	23.1	1.7	1.7	1.7	9.9	9.8	10.1
Wausau .....	15.4	15.1	15.6	3.2	3.2	3.2	12.6	12.7	12.6
<b>Wyoming</b> .....	9.4	9.2	9.7	14.6	14.4	14.6	47.0	45.5	46.0
Casper .....	1.7	1.8	1.8	1.7	1.8	1.7	8.0	8.0	8.1
<b>Puerto Rico</b> .....	155.4	151.3	151.3	21.7	19.4	19.3	156.2	154.4	153.0
Caguas .....	15.3	15.6	15.8	.5	.5	.5	11.3	11.0	10.9
Mayaguez .....	19.9	18.7	18.6	.5	.6	.6	8.3	8.7	8.9
Ponce .....	10.4	10.4	10.2	1.6	1.4	1.4	8.6	6.6	8.5
San Juan .....	66.3	63.2	63.1	17.5	16.1	16.0	106.8	106.0	105.1
<b>Virgin Islands</b> .....	2.5	2.5	2.5	2.3	2.3	2.4	9.7	9.5	9.3

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	Finance, insurance, and real estate			Services			Government		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Utah</b> .....	34.2	34.9	35.3	180.8	189.4	192.8	153.4	159.6	157.1
Provo-Orem .....	2.3	2.3	2.3	33.4	35.6	38.5	15.1	15.6	15.6
Salt Lake City-Ogden .....	28.1	29.3	29.4	123.5	128.8	130.7	100.2	103.1	101.6
<b>Vermont</b> .....	12.9	11.4	11.5	68.3	65.7	66.6	44.0	45.1	43.9
Barre-Montpelier .....	2.9	2.8	2.6	8.3	8.3	8.3	8.3	8.2	8.4
Burlington .....	4.3	3.8	3.8	20.8	20.5	20.4	11.8	12.5	11.7
<b>Virginia</b> .....	157.4	150.5	152.4	752.7	753.2	763.4	582.7	588.4	583.4
Bristol .....	1.2	1.1	1.1	5.4	5.4	5.4	5.8	6.2	6.3
Charlottesville .....	3.9	3.5	3.4	14.8	15.0	15.5	22.1	23.0	22.4
Danville .....	1.4	1.4	1.4	7.0	7.1	7.1	5.8	5.7	5.7
Lynchburg .....	3.5	3.4	3.4	17.4	17.2	16.8	10.1	10.0	10.1
Norfolk-Virginia Beach-Newport News .....	27.7	25.7	26.2	155.3	154.3	157.5	138.7	137.5	137.0
Northern Virginia .....	51.4	49.6	49.9	267.3	264.5	266.4	150.7	150.2	150.4
Richmond-Petersburg .....	40.5	39.4	39.4	112.2	114.6	115.8	97.3	98.6	99.0
Roanoke .....	8.8	8.8	8.7	33.0	33.4	33.6	16.2	16.0	15.9
<b>Washington</b> .....	117.6	118.5	118.9	515.9	532.7	534.2	405.5	420.8	420.1
Seattle .....	74.2	75.3	75.1	276.7	281.9	285.0	149.0	155.0	154.8
<b>West Virginia</b> .....	24.9	24.7	24.8	146.7	153.8	153.7	125.1	127.6	125.5
Charleston .....	8.6	6.5	6.5	29.4	30.2	30.3	20.3	19.9	20.0
Huntington-Ashland .....	3.9	4.0	4.0	25.0	26.2	26.3	19.0	19.5	18.9
Parkersburg-Marietta .....	2.3	2.3	2.3	14.8	15.2	15.1	9.9	9.9	9.8
Wheeling .....	3.1	3.1	3.1	17.2	17.4	17.3	9.5	9.5	9.5
<b>Wisconsin</b> .....	121.0	122.4	123.6	537.9	545.6	553.3	343.4	354.0	347.5
Appleton-Oshkosh-Neenah .....	7.7	8.1	8.2	33.1	34.5	35.5	17.7	18.8	18.1
Eau Claire .....	1.8	1.8	1.8	13.5	13.7	13.9	10.9	12.0	11.1
Green Bay .....	5.7	6.5	6.6	24.8	25.2	25.2	11.8	12.7	12.2
Janesville-Beloit .....	1.7	1.7	1.6	13.8	14.8	14.6	7.3	7.4	7.2
Kenosha .....	1.4	1.4	1.4	9.6	10.0	10.2	8.2	6.8	6.3
La Crosse .....	1.7	1.6	1.6	15.2	15.2	15.3	7.1	8.0	7.3
Madison .....	19.3	19.6	19.9	49.1	50.3	50.5	59.7	62.3	60.9
Milwaukee .....	51.0	50.9	51.3	209.5	212.4	215.2	87.6	89.6	87.8
Racine .....	2.2	2.3	2.3	17.9	18.1	18.5	8.7	8.8	9.0
Sheboygan .....	2.2	2.2	2.2	9.7	9.5	10.0	5.4	5.7	5.8
Wausau .....	3.6	3.9	4.0	9.6	9.9	10.1	6.1	6.6	6.5
<b>Wyoming</b> .....	7.4	7.1	7.3	42.9	39.4	43.6	56.8	58.0	56.5
Casper .....	1.4	1.4	1.4	6.8	6.8	6.8	5.4	5.3	5.5
<b>Puerto Rico</b> .....	37.4	36.4	36.7	131.3	136.1	132.7	325.7	291.0	320.8
Caguas .....	1.4	1.3	1.3	7.4	7.8	7.4	18.4	16.6	17.9
Mayaguez .....	1.5	1.5	1.5	6.9	8.0	7.9	20.8	18.8	21.1
Ponce .....	1.8	1.7	1.6	11.2	11.6	11.6	19.1	17.6	16.9
San Juan .....	29.8	29.0	29.2	92.9	95.3	93.2	186.5	172.2	181.9
<b>Virgin Islands</b> .....	2.1	2.1	2.1	9.0	9.1	9.0	13.6	13.2	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 1990 benchmarks.

**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
<b>Annual averages</b>									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989 .....	34.6	9.66	334.24	43.0	13.26	570.18	37.9	13.54	513.17
1990 .....	34.5	10.02	345.69	44.1	13.69	603.73	38.2	13.78	526.40
<b>Monthly data, not seasonally adjusted</b>									
<b>1990:</b>									
July .....	34.9	\$9.99	\$348.65	43.6	\$13.74	\$599.06	38.4	\$13.76	\$528.38
August .....	34.8	9.98	347.30	44.0	13.66	601.04	39.0	13.79	537.81
September .....	34.8	10.15	353.22	45.1	13.86	625.09	39.1	13.97	546.23
October .....	34.3	10.14	347.80	44.6	13.73	612.36	38.0	13.97	530.86
November .....	34.3	10.16	348.49	45.0	13.82	621.90	38.2	13.87	529.83
December .....	34.7	10.19	353.59	45.5	13.88	631.54	38.3	13.92	533.14
<b>1991:</b>									
January .....	33.7	10.22	344.41	44.4	14.20	630.48	36.2	14.02	507.52
February .....	33.9	10.23	346.80	44.4	14.10	626.04	37.0	13.93	515.41
March .....	34.0	10.24	348.16	44.0	14.09	619.96	37.2	13.93	518.20
April .....	34.0	10.30	350.20	43.9	14.12	619.87	37.8	13.99	528.82
May .....	34.2	10.31	352.60	44.3	14.10	624.63	38.2	13.96	533.27
June <sup>a</sup> .....	34.7	10.31	357.76	44.9	14.27	640.72	38.7	13.87	536.77
July <sup>b</sup> .....	34.5	10.30	355.35	43.5	14.26	620.31	38.6	13.97	539.24

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	108.27
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	10.48	10.02	429.68	38.9	12.60	490.14	38.0	10.39	394.82
1990 .....	40.8	10.83	10.37	441.86	38.9	12.96	504.14	38.1	10.79	411.10
<b>Monthly data, not seasonally adjusted</b>										
<b>1990:</b>										
July .....	40.5	\$10.87	\$10.40	\$440.24	39.5	\$13.00	\$513.50	38.3	\$10.81	\$414.02
August .....	40.8	10.81	10.33	441.05	39.3	12.97	509.72	38.1	10.76	409.96
September .....	41.3	10.93	10.41	451.41	39.2	13.08	512.74	38.3	10.93	418.62
October .....	40.9	10.94	10.46	447.45	38.7	13.08	506.20	38.1	10.86	413.77
November .....	40.8	10.96	10.48	447.17	38.8	13.09	507.89	38.0	10.93	415.34
December .....	41.3	11.05	10.57	456.37	39.1	13.14	513.77	38.4	11.04	423.94
<b>1991:</b>										
January .....	40.2	11.05	10.62	444.21	38.2	13.18	503.48	37.7	11.04	416.21
February .....	39.9	11.02	10.61	439.70	38.3	13.17	504.41	37.7	11.08	417.72
March .....	40.1	11.06	10.64	443.51	38.3	13.15	503.65	37.9	11.06	419.17
April .....	40.1	11.11	10.69	445.51	38.4	13.19	506.50	37.9	11.12	421.45
May .....	40.3	11.15	10.72	449.35	38.6	13.17	508.36	38.1	11.11	423.29
June <sup>a</sup> .....	40.9	11.19	10.71	457.67	39.1	13.17	514.95	38.4	11.19	429.70
July <sup>b</sup> .....	40.3	11.23	10.75	452.57	38.6	13.22	510.29	38.1	11.15	424.82

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	9.53	341.17	32.6	9.38	305.79
1990 .....	28.8	6.76	194.69	35.8	9.97	356.93	32.6	9.83	320.46
	Monthly data, not seasonally adjusted								
<b>1990:</b>									
July .....	29.7	\$6.73	\$199.88	36.2	\$9.99	\$361.64	32.9	\$9.76	\$321.10
August .....	29.4	6.73	197.86	35.7	9.94	354.86	32.8	9.75	319.80
September .....	28.9	6.83	197.39	36.1	10.10	364.61	32.7	9.95	325.37
October .....	28.4	6.83	193.97	35.5	10.08	357.84	32.4	9.96	322.70
November .....	28.4	6.86	194.82	35.6	10.12	360.27	32.4	10.02	324.65
December .....	29.2	6.84	199.73	36.2	10.24	370.69	32.7	10.11	330.60
<b>1991:</b>									
January .....	27.6	6.90	190.44	35.7	10.24	365.57	32.1	10.12	324.85
February .....	28.0	6.89	192.92	35.8	10.30	368.74	32.3	10.14	327.52
March .....	28.1	6.91	194.17	35.6	10.33	367.75	32.3	10.16	328.17
April .....	28.3	6.98	197.53	35.6	10.36	368.82	32.3	10.19	329.14
May .....	28.6	6.97	199.34	35.5	10.36	367.78	32.3	10.21	329.78
June <sup>p</sup> .....	29.2	6.97	203.52	36.2	10.41	376.84	32.8	10.19	334.23
July <sup>p</sup> .....	29.3	6.96	203.93	35.6	10.36	368.82	32.6	10.15	330.89

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

<sup>p</sup> = preliminary.  
NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1990 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				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Total private</b> .....		34.8	34.9	34.2	34.7	34.5	-	-	-	-	-
<b>Mining</b> .....		44.4	43.6	44.3	44.9	43.5	-	-	-	-	-
Metal mining .....	10	42.9	43.3	42.1	43.0	-	-	-	-	-	-
Iron ores .....	101	43.0	41.9	41.6	42.1	-	-	-	-	-	-
Copper ores .....	102	44.9	47.9	45.2	45.5	-	-	-	-	-	-
Coal mining .....	12	44.1	41.8	44.1	44.8	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	44.1	41.9	44.3	44.9	-	-	-	-	-	-
Oil and gas extraction .....	13	44.1	43.6	44.8	45.1	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	44.8	42.9	43.7	43.1	-	-	-	-	-	-
Oil and gas field services .....	138	43.6	44.1	45.4	46.3	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	46.7	46.2	44.6	45.9	-	-	-	-	-	-
Crushed and broken stone .....	142	47.8	47.2	44.8	46.1	-	-	-	-	-	-
<b>Construction</b> .....		39.1	38.4	38.2	38.7	38.6	-	-	-	-	-
General building contractors .....	15	38.3	37.8	37.7	37.9	-	-	-	-	-	-
Residential building construction .....	152	37.6	37.2	36.5	36.9	-	-	-	-	-	-
Operative builders .....	153	37.2	36.5	37.2	37.6	-	-	-	-	-	-
Nonresidential building construction .....	154	39.0	38.5	39.0	39.0	-	-	-	-	-	-
Heavy construction, except building .....	16	43.3	42.1	41.3	42.7	-	-	-	-	-	-
Highway and street construction .....	161	45.0	43.7	41.6	44.1	-	-	-	-	-	-
Heavy construction, except highway .....	162	42.4	41.1	41.2	41.9	-	-	-	-	-	-
Special trade contractors .....	17	38.2	37.6	37.6	37.9	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	39.2	39.1	38.7	36.9	-	-	-	-	-	-
Painting and paper hanging .....	172	36.4	35.8	35.9	36.6	-	-	-	-	-	-
Electrical work .....	173	39.4	39.1	38.8	39.2	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	35.8	35.0	35.5	35.7	-	-	-	-	-	-
Carpentry and floor work .....	175	35.9	35.2	34.6	34.7	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	36.2	34.5	34.4	35.6	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.1	40.5	40.3	40.9	40.3	3.8	3.6	3.2	3.7	3.6
<b>Durable goods</b> .....		41.7	41.0	40.7	41.5	40.7	3.9	3.6	3.2	3.7	3.5
Lumber and wood products .....	24	40.6	40.0	39.9	41.1	40.1	3.7	3.6	3.2	3.8	-
Logging .....	241	42.4	41.6	40.0	42.6	-	5.7	5.0	4.2	5.3	-
Sawmills and planing mills .....	242	41.6	40.5	40.5	42.2	-	4.4	4.2	3.8	4.6	-
Sawmills and planing mills, general .....	2421	41.9	40.8	41.0	42.7	-	4.6	4.5	4.1	5.0	-
Hardwood dimension and flooring mills .....	2426	40.5	39.4	38.6	39.9	-	3.3	2.9	2.5	3.3	-
Millwork, plywood, and structural members .....	243	40.4	39.3	40.2	41.0	-	3.1	3.1	3.0	3.6	-
Millwork .....	2431	40.0	39.1	40.1	41.3	-	2.6	2.4	2.9	3.5	-
Wood kitchen cabinets .....	2434	39.6	38.9	39.5	39.3	-	2.8	2.8	2.6	2.6	-
Hardwood veneer and plywood .....	2435	41.2	38.9	39.7	40.6	-	3.6	3.3	3.1	3.6	-
Softwood veneer and plywood .....	2436	42.1	40.3	42.9	43.9	-	4.5	4.9	4.2	5.0	-
Wood containers .....	244	39.6	39.6	39.2	39.5	-	3.5	3.5	2.9	2.8	-
Wood buildings and mobile homes .....	245	39.2	39.5	38.1	38.4	-	2.1	2.3	2.2	2.1	-
Mobile homes .....	2451	39.2	39.4	38.3	38.2	-	1.9	2.2	2.1	1.8	-
Miscellaneous wood products .....	249	40.6	40.1	39.4	40.1	-	3.2	3.2	2.3	2.7	-
Furniture and fixtures .....	25	39.2	39.0	38.4	39.1	38.6	2.5	2.4	2.0	2.5	-
Household furniture .....	251	38.4	38.1	37.6	38.5	-	2.2	2.0	1.8	2.1	-
Wood household furniture .....	2511	38.8	38.8	38.5	38.6	-	2.3	2.1	2.0	2.2	-
Upholstered household furniture .....	2512	37.0	36.3	35.2	37.1	-	1.6	1.3	1.1	1.6	-
Metal household furniture .....	2514	39.5	41.1	41.2	41.4	-	2.7	3.4	3.3	3.2	-
Mattresses and bedsprings .....	2515	40.1	38.8	39.1	40.3	-	3.6	3.1	2.2	3.4	-
Office furniture .....	252	40.6	39.6	37.8	37.9	-	2.9	2.9	1.7	2.2	-
Public building and related furniture .....	253	40.7	40.4	41.7	42.5	-	3.4	3.2	3.6	4.4	-
Partitions and fixtures .....	254	40.7	41.0	40.3	40.9	-	3.0	3.3	2.2	3.1	-
Miscellaneous furniture and fixtures .....	259	40.0	39.8	39.6	40.3	-	2.7	3.0	2.7	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' on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	42.1	41.6	41.1	41.8	41.2	4.0	3.8	3.2	3.6	-
Engines and turbines .....	351	42.0	42.9	42.2	42.6	-	3.5	3.3	4.4	4.8	-
Turbines and turbine generator sets .....	3511	43.6	42.9	43.3	44.1	-	5.6	5.6	5.9	6.3	-
Internal combustion engines, nec .....	3519	41.4	42.9	41.7	41.9	-	2.7	2.4	3.7	4.1	-
Farm and garden machinery .....	352	41.4	40.3	40.6	41.3	-	3.5	3.2	2.4	2.8	-
Farm machinery and equipment .....	3523	41.6	41.0	40.2	40.6	-	3.8	4.0	2.7	2.9	-
Construction and related machinery .....	353	42.9	42.2	41.1	42.6	-	4.1	3.8	2.8	3.3	-
Construction machinery .....	3531	42.4	41.3	40.1	42.2	-	3.4	2.6	1.8	2.4	-
Mining machinery .....	3532	42.2	41.2	39.3	39.5	-	4.3	4.0	2.5	2.8	-
Oil and gas field machinery .....	3533	46.1	46.2	45.3	46.1	-	6.3	6.7	4.7	4.6	-
Conveyors and conveying equipment .....	3535	42.5	42.4	41.0	42.3	-	4.7	4.6	3.7	4.4	-
Industrial trucks and tractors .....	3537	39.9	38.6	38.1	38.7	-	2.2	2.0	1.5	1.8	-
Metalworking machinery .....	354	42.6	42.2	41.4	41.7	-	4.6	4.6	3.7	3.9	-
Machine tools, metal cutting types .....	3541	41.7	40.8	40.8	41.1	-	3.8	3.5	3.4	3.4	-
Machine tools, metal forming types .....	3542	43.0	42.6	40.9	41.7	-	4.4	4.4	2.5	2.8	-
Special dies, tools, jigs, and fixtures .....	3544	43.2	43.5	42.0	42.3	-	5.4	5.7	4.7	4.9	-
Machine tool accessories .....	3545	41.5	40.7	40.5	40.7	-	3.4	3.5	2.5	2.6	-
Power driven handtools .....	3546	41.7	41.4	41.3	42.0	-	3.7	3.4	2.6	3.2	-
Special industry machinery .....	355	42.3	40.9	41.2	41.6	-	4.2	3.5	3.4	3.7	-
Textile machinery .....	3552	42.8	42.0	41.3	42.2	-	4.0	3.2	2.9	3.8	-
Printing trades machinery .....	3555	39.3	37.8	38.8	39.0	-	3.8	3.0	3.6	3.8	-
Food products machinery .....	3556	41.7	40.5	41.1	41.4	-	3.8	3.5	3.6	3.6	-
General industrial machinery .....	356	42.1	41.5	40.8	41.3	-	4.2	4.0	3.2	3.6	-
Pumps and pumping equipment .....	3561	41.4	40.0	40.8	41.3	-	3.8	3.3	2.9	3.5	-
Ball and roller bearings .....	3562	43.4	42.9	40.9	41.7	-	5.7	5.6	3.5	4.0	-
Air and gas compressors .....	3563	43.6	43.2	43.2	43.5	-	4.1	4.2	4.8	5.0	-
Blowers and fans .....	3564	40.2	39.5	39.6	40.3	-	3.4	3.5	2.1	2.7	-
Speed changers, drives, and gears .....	3566	42.0	41.7	40.5	40.5	-	5.1	4.6	3.9	4.5	-
Power transmission equipment, nec .....	3568	41.8	41.1	39.8	40.6	-	4.4	3.8	2.7	3.1	-
Computer and office equipment .....	357	42.2	41.9	40.8	41.9	-	3.1	2.6	2.1	2.7	-
Electronic computers .....	3571	42.0	41.1	40.3	41.3	-	3.0	2.6	2.2	2.6	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	40.3	39.8	41.3	42.0	-	2.8	1.8	2.5	3.6	-
Refrigeration and service machinery .....	358	40.7	39.9	40.5	41.8	-	2.9	3.0	2.7	3.6	-
Refrigeration and heating equipment .....	3585	40.9	40.7	40.6	42.4	-	3.1	3.4	2.8	4.1	-
Misc. industrial and commercial machinery .....	359	42.2	41.8	41.6	41.8	-	4.5	4.4	3.8	4.0	-
Carburetors, pistons, rings, valves .....	3592	42.1	41.0	40.8	41.2	-	4.7	4.1	3.3	3.5	-
Scales, balances, and industrial machinery, nec .....	3596,9	42.0	41.7	41.6	41.8	-	4.4	4.4	4.0	4.1	-
Electronic and other electrical equipment .....	36	41.0	40.1	40.3	40.8	40.1	3.2	2.9	2.8	3.3	-
Electric distribution equipment .....	361	41.2	40.8	41.2	42.0	-	2.9	3.2	2.7	3.1	-
Transformers, except electronic .....	3612	41.6	41.3	41.4	41.9	-	3.4	3.7	3.2	3.3	-
Switchgear and switchboard apparatus .....	3613	40.8	40.3	40.9	42.2	-	2.3	2.7	2.2	2.8	-
Electrical industrial apparatus .....	362	42.3	41.5	41.3	42.1	-	3.6	3.2	2.9	3.3	-
Motors and generators .....	3621	42.2	40.9	41.0	42.3	-	3.9	3.2	2.9	3.5	-
Relays and industrial controls .....	3625	42.0	42.0	41.1	41.7	-	3.0	3.0	2.6	2.9	-
Household appliances .....	363	40.1	39.6	40.1	40.7	-	2.6	2.4	2.5	3.3	-
Household refrigerators and freezers .....	3632	38.8	39.4	39.7	41.1	-	2.8	2.8	2.4	3.4	-
Household laundry equipment .....	3633	41.0	39.2	41.9	41.0	-	3.4	2.6	1.7	3.1	-
Electric housewares and fans .....	3634	41.3	39.9	39.7	40.1	-	2.2	1.9	2.7	2.8	-
Electric lighting and wiring equipment .....	364	40.5	39.3	39.1	39.7	-	2.9	2.5	2.1	2.6	-
Electric lamps .....	3641	40.8	39.7	40.6	41.1	-	3.0	2.4	2.9	3.2	-
Current-carrying wiring devices .....	3643	40.0	39.3	38.5	38.9	-	2.8	2.9	1.9	2.1	-
Noncurrent-carrying wiring devices .....	3644	40.1	39.3	40.1	40.2	-	2.1	1.7	1.8	2.1	-
Residential lighting fixtures .....	3645	38.3	36.8	37.0	37.4	-	2.3	1.9	1.7	1.6	-
Household audio and video equipment .....	365	40.9	41.0	39.0	39.4	-	3.4	3.3	3.0	3.2	-
Household audio and video equipment .....	3651	42.0	41.9	39.1	39.9	-	3.5	3.1	2.4	3.0	-
Communications equipment .....	366	42.1	41.4	41.1	41.1	-	2.7	2.8	3.1	3.3	-
Telephone and telegraph apparatus .....	3661	43.6	42.7	41.9	41.9	-	3.1	3.2	4.0	4.0	-
Electronic components and accessories .....	367	40.5	39.5	40.2	40.5	-	3.5	3.2	3.2	3.5	-
Electron tubes .....	3671	41.4	40.8	40.9	41.7	-	4.0	3.8	3.5	3.8	-
Semiconductors and related devices .....	3674	40.5	39.4	41.2	40.9	-	4.2	4.1	4.5	4.5	-
Electronic components, nec .....	3679	39.9	36.9	39.4	39.9	-	2.6	2.2	2.4	2.7	-
Misc. electrical equipment and supplies .....	369	41.3	39.8	40.1	41.7	-	3.3	2.9	2.5	3.5	-
Storage batteries .....	3691	40.0	39.4	39.9	41.9	-	2.2	3.7	2.1	3.1	-
Engine electrical equipment .....	3694	41.9	39.4	39.8	41.8	-	4.2	2.6	2.4	4.0	-

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 weekly hours					Average overtime hours				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	42.8	41.9	41.5	42.3	41.3	4.7	4.0	3.4	4.1	-
Motor vehicles and equipment .....	371	43.9	42.3	42.1	43.4	42.3	5.4	4.1	3.6	4.6	-
Motor vehicles and car bodies .....	3711	43.9	42.5	42.0	43.2	-	5.4	3.8	3.9	4.6	-
Truck and bus bodies .....	3713	42.5	41.9	42.0	42.8	-	4.0	3.8	3.2	3.7	-
Motor vehicle parts and accessories .....	3714	44.6	42.4	42.3	43.8	-	5.8	4.5	3.5	4.9	-
Truck trailers .....	3715	41.2	42.0	41.0	41.9	-	3.2	3.8	2.6	3.4	-
Aircraft and parts .....	372	42.2	41.7	41.3	41.5	-	4.5	4.3	3.5	3.8	-
Aircraft .....	3721	41.7	41.0	41.4	41.3	-	4.1	3.7	3.9	4.0	-
Aircraft engines and engine parts .....	3724	42.8	43.1	41.5	42.3	-	5.3	5.5	3.6	4.2	-
Aircraft parts and equipment, nec .....	3728	42.6	41.9	41.1	41.3	-	4.4	4.4	2.9	3.1	-
Ship and boat building and repairing .....	373	40.5	40.5	39.8	39.8	-	3.0	3.0	2.5	2.7	-
Ship building and repairing .....	3731	40.9	41.9	40.3	40.4	-	2.9	3.4	2.5	2.9	-
Boat building and repairing .....	3732	39.8	37.6	36.7	36.3	-	3.1	2.3	2.5	2.2	-
Railroad equipment .....	374	41.4	42.4	41.0	41.1	-	3.4	3.6	1.6	2.2	-
Guided missiles, space vehicles, and parts .....	376	42.2	42.3	41.4	42.5	-	3.8	3.7	3.4	4.3	-
Guided missiles and space vehicles .....	3761	42.6	42.7	41.3	42.9	-	4.3	4.1	3.9	5.0	-
Misc. transportation equipment .....	379	39.7	40.1	40.0	39.2	-	2.5	3.1	2.4	2.1	-
Travel trailers and campers .....	3792	38.1	38.8	39.5	38.7	-	2.0	3.0	2.5	2.2	-
Instruments and related products .....	38	41.2	40.6	40.5	41.0	40.2	2.8	2.6	2.6	2.9	-
Search and navigation equipment .....	381	40.5	40.3	40.2	40.1	-	2.1	2.1	1.9	2.2	-
Measuring and controlling devices .....	382	41.5	41.2	40.3	40.9	-	2.9	2.5	2.1	2.4	-
Environmental controls .....	3822	40.4	39.8	39.4	40.8	-	2.4	2.5	2.1	2.7	-
Process control instruments .....	3823	43.5	42.2	40.5	41.2	-	4.3	3.8	2.3	2.6	-
Instruments to measure electricity .....	3825	40.9	41.1	40.0	40.1	-	2.1	1.4	1.6	1.9	-
Medical instruments and supplies .....	384	41.4	40.1	40.8	41.4	-	3.1	3.0	3.2	3.5	-
Surgical and medical instruments .....	3841	41.6	39.3	41.1	41.6	-	3.0	3.0	3.7	4.0	-
Surgical appliances and supplies .....	3842	40.9	40.2	39.9	40.7	-	3.0	2.7	2.6	2.9	-
Ophthalmic goods .....	385	40.5	39.2	39.8	40.4	-	2.4	2.2	2.5	2.6	-
Photographic equipment and supplies .....	386	41.9	42.0	41.9	42.8	-	3.4	3.5	3.6	4.0	-
Watches, clocks, watchcases, and parts .....	387	40.1	38.8	38.3	38.9	-	2.8	1.9	1.2	2.2	-
Miscellaneous manufacturing industries .....	39	39.4	38.8	39.2	39.8	38.5	2.4	2.1	2.3	2.6	-
Jewelry, silverware, and plated ware .....	391	38.0	36.9	37.8	38.1	-	1.4	.9	1.7	1.7	-
Jewelry, precious metal .....	3911	37.4	36.1	37.6	37.6	-	1.2	.9	1.8	1.8	-
Musical instruments .....	393	39.6	38.6	37.9	38.7	-	2.4	1.2	1.6	1.8	-
Toys and sporting goods .....	394	39.5	39.2	39.6	40.3	-	2.4	2.2	2.8	3.0	-
Dolls, games, toys, and children's vehicles .....	3942,4	39.4	38.8	39.0	39.5	-	1.7	1.7	2.4	2.4	-
Sporting and athletic goods, nec .....	3949	39.6	39.5	40.0	40.9	-	2.9	2.5	3.1	3.4	-
Pens, pencils, office, and art supplies .....	395	40.4	41.0	40.3	41.4	-	2.4	3.1	2.1	2.6	-
Costume jewelry and notions .....	396	40.9	38.3	40.2	40.3	-	3.0	2.1	2.1	1.9	-
Costume jewelry .....	3961	42.0	39.0	40.0	39.7	-	3.6	2.3	1.9	1.2	-
Miscellaneous manufactures .....	399	39.3	38.7	39.0	39.5	-	2.6	2.4	2.4	2.8	-
Signs and advertising specialties .....	3993	39.6	39.5	39.5	39.7	-	3.0	3.0	2.8	3.1	-
<b>Nondurable goods .....</b>		<b>40.3</b>	<b>39.8</b>	<b>39.8</b>	<b>40.3</b>	<b>39.9</b>	<b>3.6</b>	<b>3.6</b>	<b>3.3</b>	<b>3.7</b>	<b>3.7</b>
Food and kindred products .....	20	40.9	40.6	40.2	40.6	40.5	4.5	4.7	4.1	4.5	-
Meat products .....	201	40.3	39.9	39.3	39.5	-	4.4	4.1	3.7	3.8	-
Meat packing plants .....	2011	41.3	41.0	39.4	39.7	-	5.0	4.7	3.6	4.1	-
Sausages and other prepared meats .....	2013	41.7	42.0	41.6	41.3	-	5.2	5.2	5.0	4.8	-
Poultry slaughtering and processing .....	2015	39.1	38.5	38.4	38.7	-	3.7	3.3	3.2	3.2	-
Dairy products .....	202	41.3	41.5	40.9	42.0	-	4.9	5.0	4.4	5.0	-
Cheese, natural and processed .....	2022	39.6	39.7	39.1	40.7	-	3.8	3.6	3.5	4.1	-
Fluid milk .....	2026	41.9	42.0	41.6	42.1	-	5.0	5.2	4.7	4.7	-
Preserved fruits and vegetables .....	203	39.9	39.7	39.7	39.7	-	4.0	4.9	3.5	4.3	-
Canned specialties .....	2032	44.0	41.8	41.6	42.7	-	4.0	2.8	5.7	6.1	-
Canned fruits and vegetables .....	2033	38.9	39.0	39.5	37.6	-	4.2	5.8	3.1	3.9	-
Frozen fruits and vegetables .....	2037	38.1	39.7	37.4	39.0	-	3.8	5.5	2.9	3.7	-
Grain mill products .....	204	45.4	45.2	44.1	45.2	-	6.3	6.3	6.0	6.7	-
Flour and other grain mill products .....	2041	49.0	48.6	45.7	48.0	-	7.2	7.1	6.0	7.3	-
Prepared feeds, nec .....	2048	42.1	42.3	42.3	43.1	-	5.2	5.3	5.5	6.1	-

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' on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
<b>Food and kindred products—Continued</b>											
Bakery products .....	205	39.6	39.2	39.6	39.3	-	3.9	4.2	4.1	4.1	-
Bread, cake, and related products .....	2051	39.5	39.1	39.6	39.3	-	4.5	4.6	4.6	4.5	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	39.9	39.3	39.6	39.4	-	2.8	3.6	3.2	3.4	-
Sugar and confectionery products .....	206	41.5	41.0	39.2	40.5	-	3.4	3.9	2.2	3.1	-
Raw cane sugar .....	2061	41.4	40.1	43.1	44.8	-	3.2	3.8	3.8	3.5	-
Cane sugar refining .....	2062	48.8	48.6	44.1	47.1	-	9.7	9.9	6.1	8.5	-
Beet sugar .....	2063	38.7	40.7	39.2	40.8	-	3.0	3.8	2.0	1.8	-
Candy and other confectionery products .....	2064	40.8	39.9	37.9	39.2	-	2.6	3.0	1.5	2.7	-
Fats and oils .....	207	44.4	43.5	43.7	43.9	-	6.1	6.0	5.4	5.8	-
Beverages .....	208	42.4	42.2	41.8	43.0	-	5.1	5.3	5.2	6.0	-
Malt beverages .....	2082	44.0	43.6	43.3	45.0	-	7.2	7.2	7.6	9.0	-
Bottled and canned soft drinks .....	2086	41.9	42.7	41.9	42.7	-	4.8	5.4	5.0	5.7	-
Misc. food and kindred products .....	209	40.0	40.3	39.6	40.1	-	4.6	5.4	4.5	4.7	-
Tobacco products .....	21	39.4	38.6	39.0	39.5	38.2	2.0	1.7	2.4	3.5	-
Cigarettes .....	211	39.4	38.6	39.2	39.6	-	1.9	1.7	2.6	3.8	-
Textile mill products .....	22	40.8	39.7	40.1	41.2	40.4	3.9	3.5	3.7	4.3	-
Broadwoven fabric mills, cotton .....	221	39.9	38.5	39.5	40.2	-	4.1	3.9	4.0	4.8	-
Broadwoven fabric mills, synthetics .....	222	41.2	40.3	39.9	40.7	-	3.9	3.6	3.6	4.1	-
Broadwoven fabric mills, wool .....	223	42.0	41.6	41.8	43.7	-	4.7	4.1	4.0	5.7	-
Narrow fabric mills .....	224	41.0	40.1	40.2	40.7	-	3.1	2.5	2.9	3.4	-
Knitting mills .....	225	39.7	38.5	39.0	40.4	-	3.3	3.1	3.0	3.7	-
Women's hosiery, except socks .....	2251	38.8	37.0	37.6	39.8	-	2.6	2.2	2.4	3.5	-
Hosiery, nec .....	2252	38.9	38.2	37.4	40.4	-	2.7	2.7	1.8	3.2	-
Knit outerwear mills .....	2253	39.6	38.7	39.0	39.9	-	3.6	3.5	3.2	3.8	-
Knit underwear mills .....	2254	38.9	37.1	36.0	38.8	-	1.9	1.7	2.0	2.1	-
Weft knit fabric mills .....	2257	40.8	39.4	41.3	42.1	-	4.1	3.3	4.4	4.8	-
Textile finishing, except wool .....	226	42.5	40.8	43.0	44.0	-	5.4	4.2	5.9	6.7	-
Finishing plants, cotton .....	2281	42.1	40.6	41.5	43.0	-	4.9	3.6	5.1	6.0	-
Finishing plants, synthetics .....	2282	42.9	41.0	44.3	44.7	-	5.9	4.2	6.6	7.3	-
Carpets and rugs .....	227	43.1	42.4	42.2	43.9	-	4.6	4.1	4.3	5.2	-
Yarn and thread mills .....	228	40.0	39.4	39.5	40.2	-	3.8	3.4	3.5	4.0	-
Yarn spinning mills .....	2281	40.3	39.9	39.9	40.8	-	3.9	3.7	3.7	4.3	-
Throwing and winding mills .....	2282	37.9	36.4	35.7	38.8	-	2.5	1.9	2.2	2.4	-
Miscellaneous textile goods .....	229	41.2	41.0	40.8	41.6	-	3.9	3.4	3.0	3.7	-
Apparel and other textile products .....	23	36.9	36.3	36.7	37.2	36.8	1.7	1.4	1.6	1.9	-
Men's and boys' suits and coats .....	231	35.7	36.5	36.4	36.9	-	.8	1.0	.8	1.1	-
Men's and boys' furnishings .....	232	36.9	36.5	36.8	37.4	-	1.3	1.1	1.5	1.8	-
Men's and boys' shirts .....	2321	36.9	36.5	36.9	37.5	-	1.1	.9	1.3	1.8	-
Men's and boys' trousers and slacks .....	2325	35.7	35.9	36.4	36.7	-	1.3	1.1	1.6	1.8	-
Men's and boys' work clothing .....	2326	37.6	37.1	36.4	37.1	-	1.5	.9	1.0	1.4	-
Women's and misses' outerwear .....	233	35.4	34.9	35.4	35.8	-	1.5	1.3	1.5	1.7	-
Women's and misses' blouses and shirts .....	2331	36.7	35.0	35.4	36.2	-	1.2	.8	.8	.9	-
Women's, juniors', and misses' dresses .....	2335	34.0	33.5	34.5	34.8	-	1.3	1.2	1.6	1.8	-
Women's and misses' suits and coats .....	2337	35.3	35.4	33.8	35.1	-	1.8	1.7	1.2	1.4	-
Women's and misses' outerwear, nec .....	2339	35.7	35.2	36.0	36.1	-	1.5	1.4	1.7	1.9	-
Women's and children's undergarments .....	234	37.8	36.7	37.4	38.1	-	1.4	1.3	1.3	1.7	-
Women's and children's underwear .....	2341	38.4	37.2	37.7	38.6	-	1.5	1.4	1.4	1.8	-
Brassieres, girdles, and allied garments .....	2342	34.5	33.8	35.8	35.5	-	1.0	.9	1.1	1.1	-
Girls' and children's outerwear .....	236	36.6	36.1	37.8	38.4	-	1.5	1.5	2.1	2.5	-
Girls' and children's dresses and blouses .....	2361	35.9	35.3	36.6	37.1	-	1.7	1.6	1.8	2.0	-
Misc. apparel and accessories .....	238	37.2	36.2	38.8	37.5	-	1.4	1.0	1.8	1.7	-
Misc. fabricated textile products .....	239	39.1	37.9	38.3	38.9	-	2.9	2.2	2.2	2.6	-
Curtains and draperies .....	2391	37.3	34.6	36.9	37.3	-	2.0	1.7	1.6	1.6	-
House furnishings, nec .....	2392	36.3	37.7	36.7	36.4	-	2.2	2.0	1.7	2.0	-
Automotive and apparel trimmings .....	2396	40.8	39.9	39.5	41.4	-	4.1	2.3	2.6	3.4	-
Paper and allied products .....	26	43.4	43.2	42.8	43.2	43.2	4.6	4.8	4.4	4.7	-
Paper mills .....	262	45.2	44.7	44.7	44.6	-	5.0	5.1	5.3	5.2	-
Paperboard mills .....	263	45.5	46.1	45.1	45.4	-	8.6	7.1	6.8	6.9	-

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' on private nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	42.9	42.4	42.2	43.2	-	4.7	4.6	4.0	4.8	-
Corrugated and solid fiber boxes .....	2653	43.4	42.6	42.7	43.5	-	5.1	5.0	4.5	5.3	-
Sanitary food containers .....	2656	44.5	44.6	44.2	45.8	-	4.8	5.1	4.4	5.4	-
Folding paperboard boxes .....	2657	42.5	41.9	41.5	42.4	-	4.7	4.6	3.6	4.2	-
Misc. converted paper products .....	267	41.9	42.1	41.3	41.4	-	3.7	4.0	3.5	3.7	-
Paper, coated and laminated, nec .....	2672	43.1	43.2	41.6	42.4	-	3.8	3.5	3.1	3.4	-
Bags: plastics, laminated, and coated .....	2673	41.6	41.4	40.6	41.1	-	4.7	5.0	3.9	4.2	-
Envelopes .....	2677	41.8	40.9	40.1	40.3	-	3.1	3.2	2.3	2.5	-
Printing and publishing .....	27	37.6	37.7	37.1	37.4	37.3	2.6	2.8	2.3	2.4	-
Newspapers .....	271	33.0	32.9	32.7	32.7	-	1.2	1.2	1.0	1.0	-
Periodicals .....	272	37.2	37.3	37.0	37.5	-	2.6	2.7	2.3	2.5	-
Books .....	273	37.9	39.1	38.6	38.6	-	2.2	2.7	2.6	2.6	-
Book publishing .....	2731	37.9	38.5	38.9	38.7	-	1.7	1.9	2.2	1.8	-
Book printing .....	2732	37.8	39.8	38.3	38.5	-	2.8	3.7	3.2	3.6	-
Miscellaneous publishing .....	274	36.5	36.5	36.2	35.9	-	1.7	1.7	1.8	1.3	-
Commercial printing .....	275	39.0	39.0	38.4	38.7	-	3.1	3.3	2.6	2.8	-
Commercial printing, lithographic .....	2752	38.5	38.5	38.2	38.4	-	3.1	3.3	2.6	2.7	-
Commercial printing, nec .....	2759	39.9	39.7	38.7	38.9	-	3.0	3.0	2.6	2.9	-
Manifold business forms .....	276	42.0	41.3	39.9	41.2	-	3.7	3.6	2.7	3.6	-
Blankbooks and bookbinding .....	278	37.7	37.4	37.2	38.2	-	2.0	2.3	1.9	2.4	-
Printing trade services .....	279	38.9	39.4	38.6	38.8	-	3.8	4.4	3.3	3.7	-
Chemicals and allied products .....	28	42.6	42.1	42.4	43.0	42.3	4.4	4.3	4.3	4.6	-
Industrial inorganic chemicals .....	281	42.4	42.8	43.0	43.8	-	4.3	4.6	4.5	4.9	-
Industrial inorganic chemicals, nec .....	2819	42.1	42.7	43.0	43.3	-	4.1	4.6	4.4	4.6	-
Plastics materials and synthetics .....	282	42.7	42.1	42.2	42.7	-	5.1	4.7	4.7	5.1	-
Plastics materials and resins .....	2821	44.3	44.1	43.3	43.6	-	5.7	5.6	5.1	5.6	-
Organic fibers, noncellulosic .....	2824	41.1	40.0	41.1	41.6	-	4.5	3.7	4.0	4.4	-
Drugs .....	283	41.8	40.8	41.8	42.6	-	3.6	3.5	3.8	3.8	-
Pharmaceutical preparations .....	2834	41.8	40.9	41.7	42.8	-	3.6	3.4	3.7	3.8	-
Soap, cleaners, and toilet goods .....	284	41.3	40.0	40.3	40.6	-	3.5	2.9	2.7	2.9	-
Soap and other detergents .....	2841	43.4	42.4	41.2	41.3	-	5.5	4.9	4.2	4.2	-
Polishing, sanitation, and finishing preparations .....	2842,3	42.0	40.9	41.0	41.5	-	3.3	3.1	3.1	3.8	-
Toilet preparations .....	2844	39.7	38.2	39.2	39.6	-	2.4	1.7	1.4	1.5	-
Paints and allied products .....	285	42.3	42.3	41.5	42.6	-	4.1	4.1	3.4	4.4	-
Industrial organic chemicals .....	286	45.0	45.5	45.4	45.4	-	5.5	6.0	6.2	6.1	-
Cyclic crudes and intermediates .....	2865	44.2	44.6	44.3	45.4	-	5.6	5.2	5.3	6.6	-
Industrial organic chemicals, nec .....	2869	45.3	45.9	45.8	45.5	-	5.6	6.2	6.5	6.1	-
Agricultural chemicals .....	287	43.9	42.9	44.4	45.2	-	5.0	4.3	5.7	6.2	-
Miscellaneous chemical products .....	289	42.3	40.9	41.4	42.4	-	4.2	4.2	3.6	4.3	-
Petroleum and coal products .....	29	46.7	44.7	45.1	44.5	43.9	6.5	5.9	6.4	6.8	-
Petroleum refining .....	291	46.9	44.6	45.5	44.3	-	5.9	5.2	6.3	6.3	-
Asphalt paving and roofing materials .....	295	48.0	46.2	45.1	46.8	-	9.6	9.1	7.8	9.4	-
Rubber and misc. plastics products .....	30	41.7	40.8	40.9	41.3	40.4	3.9	3.7	3.3	3.7	-
Tires and inner tubes .....	301	43.2	42.6	42.2	41.3	-	5.0	5.4	4.2	3.9	-
Rubber and plastics footwear .....	302	40.8	40.9	42.4	43.0	-	1.9	2.3	3.7	4.2	-
Hose, belting, gaskets, and packing .....	305	43.0	42.0	41.3	42.0	-	3.8	3.6	2.9	3.8	-
Rubber and plastics hose and belting .....	3052	43.0	42.1	41.2	42.2	-	3.7	3.7	2.3	2.9	-
Fabricated rubber products, nec .....	306	41.9	40.4	40.0	40.8	-	3.7	3.0	2.4	3.0	-
Miscellaneous plastics products, nec .....	308	41.4	40.6	40.7	41.3	-	3.8	3.7	3.3	3.8	-
Leather and leather products .....	31	38.1	37.4	37.2	38.3	37.5	1.9	1.7	1.6	2.0	-
Leather tanning and finishing .....	311	41.8	40.1	42.5	42.4	-	4.5	3.5	4.4	4.3	-
Footwear, except rubber .....	314	37.5	36.9	35.9	37.4	-	1.4	1.4	1.2	1.7	-
Men's footwear, except athletic .....	3143	37.4	36.5	36.4	37.4	-	1.2	1.0	1.1	1.5	-
Women's footwear, except athletic .....	3144	37.7	37.7	35.1	37.1	-	1.5	1.8	1.2	1.8	-
Luggage .....	316	39.9	40.0	40.7	41.8	-	2.9	2.7	1.9	3.0	-
Handbags and personal leather goods .....	317	36.9	36.4	36.0	36.7	-	1.6	1.4	.8	.9	-
Transportation and public utilities .....		39.4	39.5	38.6	39.1	38.6	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	47.6	47.9	45.4	45.9	-	-	-	-	-	-

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				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Local and interurban passenger transit .....	41	34.0	35.5	33.2	33.7	-	-	-	-	-	-
Local and suburban transportation .....	411	38.7	38.3	37.5	37.8	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	38.7	40.5	37.8	39.3	-	-	-	-	-	-
Trucking and warehousing .....	42	39.2	38.9	38.2	39.1	-	-	-	-	-	-
Trucking and courier services, except air .....	421	39.1	38.9	38.1	39.0	-	-	-	-	-	-
Public warehousing and storage .....	422	39.3	39.1	39.1	39.6	-	-	-	-	-	-
Pipelines, except natural gas .....	46	42.3	41.7	41.3	42.8	-	-	-	-	-	-
Transportation services:											
Passenger transportation arrangement .....	472	35.6	36.1	35.3	36.4	-	-	-	-	-	-
Travel agencies .....	4724	35.7	36.2	35.5	36.5	-	-	-	-	-	-
Freight transportation arrangement .....	473	37.5	38.0	36.9	37.5	-	-	-	-	-	-
Communications .....	48	39.7	39.7	39.0	39.4	-	-	-	-	-	-
Telephone communications .....	481	41.3	41.2	40.5	40.7	-	-	-	-	-	-
Radio and television broadcasting .....	483	34.7	35.2	34.2	35.1	-	-	-	-	-	-
Cable and other pay television services .....	484	38.5	38.6	38.6	38.8	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	41.7	41.6	41.5	41.9	-	-	-	-	-	-
Electric services .....	491	41.8	41.8	41.4	41.8	-	-	-	-	-	-
Gas production and distribution .....	492	41.7	41.7	41.8	42.2	-	-	-	-	-	-
Combination utility services .....	493	41.8	41.0	41.6	41.9	-	-	-	-	-	-
Sanitary services .....	495	42.1	42.2	42.0	42.4	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>38.2</b>	<b>38.3</b>	<b>38.1</b>	<b>38.4</b>	<b>38.1</b>	-	-	-	-	-
Durable goods .....	50	38.7	38.8	38.5	38.9	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	38.2	38.3	37.7	38.1	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.3	37.3	36.3	36.3	-	-	-	-	-	-
Lumber and other construction materials .....	503	39.9	39.9	40.2	40.6	-	-	-	-	-	-
Professional and commercial equipment .....	504	38.9	39.0	38.9	39.3	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.2	39.8	40.0	40.0	-	-	-	-	-	-
Electrical goods .....	506	38.6	38.7	38.4	39.0	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.7	39.1	38.6	39.1	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.1	39.2	38.9	39.3	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	37.2	36.9	36.9	37.2	-	-	-	-	-	-
Nondurable goods .....	51	37.5	37.6	37.5	37.8	-	-	-	-	-	-
Paper and paper products .....	511	37.8	37.7	37.1	37.6	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	37.1	37.5	37.0	36.7	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.5	36.7	36.2	36.9	-	-	-	-	-	-
Groceries and related products .....	514	38.0	38.2	37.9	38.3	-	-	-	-	-	-
Chemicals and allied products .....	516	40.3	40.1	39.6	40.3	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.4	38.6	38.1	38.8	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	36.8	37.1	36.6	36.8	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	37.0	36.9	37.3	37.3	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>29.2</b>	<b>29.7</b>	<b>28.6</b>	<b>29.2</b>	<b>29.3</b>	-	-	-	-	-
Building materials and garden supplies .....	52	36.8	36.9	36.0	36.7	-	-	-	-	-	-
Lumber and other building materials .....	521	38.5	38.7	37.8	38.6	-	-	-	-	-	-
Hardware stores .....	525	32.8	33.2	32.0	33.2	-	-	-	-	-	-
General merchandise stores .....	53	28.6	29.3	28.3	28.8	-	-	-	-	-	-
Department stores .....	531	28.5	29.2	28.2	28.7	-	-	-	-	-	-
Variety stores .....	533	28.6	29.4	28.2	28.6	-	-	-	-	-	-
Misc. general merchandise stores .....	539	29.1	29.9	28.9	29.6	-	-	-	-	-	-
Food stores .....	54	30.4	30.9	29.2	30.2	-	-	-	-	-	-
Grocery stores .....	541	30.6	31.0	29.3	30.4	-	-	-	-	-	-
Retail bakeries .....	546	29.0	29.3	28.5	29.1	-	-	-	-	-	-

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				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Automotive dealers and service stations .....	55	36.5	36.6	36.0	36.6	-	-	-	-	-	-
New and used car dealers .....	551	37.3	37.3	37.3	37.7	-	-	-	-	-	-
Auto and home supply stores .....	553	38.6	38.8	38.2	38.9	-	-	-	-	-	-
Gasoline service stations .....	554	34.3	34.5	33.3	34.0	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.2	35.5	35.0	34.9	-	-	-	-	-	-
Apparel and accessory stores .....	56	27.4	27.8	26.4	27.1	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	29.2	29.4	28.3	29.1	-	-	-	-	-	-
Women's clothing stores .....	562	24.3	24.8	23.9	24.5	-	-	-	-	-	-
Family clothing stores .....	565	27.6	28.2	26.8	27.4	-	-	-	-	-	-
Shoe stores .....	566	31.0	31.2	29.7	30.5	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	33.2	33.5	32.5	33.2	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.7	34.0	33.0	33.5	-	-	-	-	-	-
Household appliance stores .....	572	33.7	34.1	33.0	34.6	-	-	-	-	-	-
Radio, television, and computer stores .....	573	32.2	32.7	31.6	32.4	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	31.9	32.5	31.1	31.6	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	27.2	27.5	25.5	27.0	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.7	26.2	25.1	25.7	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	29.8	30.1	29.6	30.0	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	27.8	28.3	27.4	28.2	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	28.6	29.3	27.6	28.8	-	-	-	-	-	-
Nonstore retailers .....	596	32.9	32.8	33.6	33.9	-	-	-	-	-	-
Fuel dealers .....	598	37.2	36.6	37.2	37.4	-	-	-	-	-	-
Retail stores, nec .....	599	31.2	31.4	32.4	31.5	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>35.8</b>	<b>36.2</b>	<b>35.5</b>	<b>36.2</b>	<b>35.6</b>	-	-	-	-	-
Depository institutions .....	60	35.5	36.1	35.1	36.1	-	-	-	-	-	-
Commercial banks .....	602	35.3	36.0	34.8	36.0	-	-	-	-	-	-
Credit unions .....	606	35.8	36.1	35.4	36.2	-	-	-	-	-	-
Nondepository institutions .....	61	37.4	38.0	37.4	38.7	-	-	-	-	-	-
Personal credit institutions .....	614	37.5	38.0	37.3	38.2	-	-	-	-	-	-
Security and commodity brokers:											
Security and commodity services .....	628	37.2	37.6	36.6	37.4	-	-	-	-	-	-
Insurance carriers .....	63	37.3	37.6	37.2	37.7	-	-	-	-	-	-
Life insurance .....	631	37.0	37.1	36.3	37.0	-	-	-	-	-	-
Medical service and health insurance .....	632	38.2	38.5	38.2	38.1	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.1	37.6	37.3	37.7	-	-	-	-	-	-
<b>Services</b> .....		<b>32.6</b>	<b>32.9</b>	<b>32.3</b>	<b>32.8</b>	<b>32.6</b>	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	31.0	31.8	30.3	31.2	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.4	34.1	34.3	34.2	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	29.4	29.4	29.6	29.8	-	-	-	-	-	-
Miscellaneous personal services .....	729	24.9	24.6	26.5	26.3	-	-	-	-	-	-
Business services .....	73	33.2	33.2	33.0	33.3	-	-	-	-	-	-
Advertising .....	731	36.6	36.8	36.2	36.2	-	-	-	-	-	-
Services to buildings .....	734	29.1	28.7	28.6	28.7	-	-	-	-	-	-
Personnel supply services:											
Help supply services .....	7363	31.1	30.8	30.5	30.9	-	-	-	-	-	-
Computer and data processing services .....	737	38.0	38.1	37.9	38.3	-	-	-	-	-	-
Computer programming services .....	7371	38.4	38.0	38.2	38.8	-	-	-	-	-	-
Miscellaneous business services .....	738	34.2	34.4	34.0	34.1	-	-	-	-	-	-
Detective and armored car services .....	7381	33.8	33.9	33.8	33.7	-	-	-	-	-	-

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				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking .....	75	37.1	37.2	36.6	37.0	-	-	-	-	-	-
Automotive repair shops .....	753	36.8	36.8	36.1	36.5	-	-	-	-	-	-
Miscellaneous repair services .....	76	36.4	36.5	36.0	36.4	-	-	-	-	-	-
Motion pictures .....	78	27.5	26.4	27.3	27.9	-	-	-	-	-	-
Motion picture production and services .....	781	36.0	35.7	37.6	36.9	-	-	-	-	-	-
Amusement and recreation services .....	79	28.0	26.7	28.1	27.8	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	27.8	26.8	25.5	27.7	-	-	-	-	-	-
Physical fitness facilities .....	7991	18.7	18.5	17.9	18.5	-	-	-	-	-	-
Membership sports and recreation clubs .....	7997	30.0	30.4	29.1	30.1	-	-	-	-	-	-
Health services .....	80	32.6	32.9	32.3	32.8	-	-	-	-	-	-
Offices and clinics of medical doctors .....	801	31.6	31.8	31.7	32.3	-	-	-	-	-	-
Offices and clinics of dentists .....	802	26.3	26.4	26.1	26.6	-	-	-	-	-	-
Offices and clinics of other health practitioners .....	804	29.6	30.0	29.1	29.7	-	-	-	-	-	-
Nursing and personal care facilities .....	805	31.9	33.0	31.7	32.5	-	-	-	-	-	-
Intermediate care facilities .....	8052	30.9	31.8	30.8	31.7	-	-	-	-	-	-
Hospitals .....	806	34.5	34.5	34.1	34.4	-	-	-	-	-	-
Home health care services .....	806	25.1	25.5	25.8	26.4	-	-	-	-	-	-
Legal services .....	81	34.9	35.3	34.7	35.6	-	-	-	-	-	-
Social services:											
Child day care services .....	835	29.7	30.2	29.6	30.1	-	-	-	-	-	-
Engineering and management services .....	87	37.2	37.4	37.0	37.3	-	-	-	-	-	-
Engineering and architectural services .....	871	39.2	39.2	36.7	39.1	-	-	-	-	-	-
Engineering services .....	8711	39.6	39.4	39.0	39.4	-	-	-	-	-	-
Architectural services .....	8712	37.9	38.3	37.5	38.0	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	36.9	36.9	37.6	37.5	-	-	-	-	-	-
Research and testing services .....	873	36.1	36.7	36.0	36.6	-	-	-	-	-	-
Management and public relations .....	874	35.4	35.8	35.2	35.5	-	-	-	-	-	-
Services, nec .....	89	36.8	37.4	35.8	35.5	-	-	-	-	-	-

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				
		June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking .....	75	\$8.75	\$8.79	\$8.98	\$8.97	-	\$324.63	\$326.99	\$328.67	\$331.89	-
Automotive repair shops .....	753	9.66	9.65	9.84	9.84	-	374.81	374.42	374.90	378.84	-
Miscellaneous repair services .....	76	10.31	10.38	10.59	10.58	-	395.90	399.63	402.42	406.27	-
Motion pictures .....	78	10.02	10.05	12.13	11.42	-	275.55	285.42	331.15	318.62	-
Motion picture production and services .....	781	15.76	15.97	18.36	17.50	-	567.36	570.13	690.34	645.75	-
Amusement and recreation services .....	79	7.85	7.68	8.36	7.79	-	219.80	220.42	218.20	216.56	-
Misc. amusement and recreation services .....	799	7.11	6.96	7.44	7.04	-	197.66	200.45	189.72	195.01	-
Physical fitness facilities .....	7991	7.71	7.72	7.82	7.76	-	144.18	142.82	139.98	143.56	-
Membership sports and recreation clubs .....	7997	6.98	6.91	7.62	7.29	-	209.40	210.06	221.74	219.43	-
Health services .....	80	10.33	10.40	10.94	10.96	-	336.76	342.16	353.36	359.49	-
Offices and clinics of medical doctors .....	801	10.51	10.55	11.09	11.16	-	332.12	335.49	351.55	360.47	-
Offices and clinics of dentists .....	802	10.13	10.17	10.60	10.58	-	286.68	288.83	297.86	302.59	-
Offices and clinics of other health practitioners .....	804	8.93	8.90	9.35	9.48	-	266.11	267.00	272.09	281.56	-
Nursing and personal care facilities .....	805	7.22	7.27	7.52	7.53	-	230.32	239.91	238.38	244.73	-
Intermediate care facilities .....	8052	6.53	6.60	6.92	6.92	-	201.78	209.88	213.14	219.36	-
Hospitals .....	806	11.65	11.78	12.51	12.53	-	401.93	406.41	426.59	431.03	-
Home health care services .....	808	8.68	8.77	9.29	9.32	-	217.67	223.64	239.68	246.05	-
Legal services .....	81	14.19	14.44	14.50	14.85	-	495.23	509.73	503.15	528.66	-
Social services:											
Child day care services .....	835	6.00	5.99	6.27	6.24	-	178.20	180.90	185.59	187.82	-
Engineering and management services .....	87	13.46	13.63	14.00	14.12	-	500.71	509.76	518.00	526.68	-
Engineering and architectural services .....	871	14.56	14.75	15.39	15.43	-	570.75	578.20	595.59	603.31	-
Engineering services .....	8711	15.09	15.30	15.90	15.95	-	597.56	602.82	620.10	628.43	-
Architectural services .....	8712	13.57	13.74	14.46	14.55	-	514.30	526.24	542.25	552.90	-
Accounting, auditing, and bookkeeping .....	872	12.18	12.36	12.32	12.49	-	449.44	456.08	463.23	468.38	-
Research and testing services .....	873	13.86	14.05	14.74	14.82	-	500.35	515.64	530.64	542.41	-
Management and public relations .....	874	12.46	12.57	12.77	12.91	-	441.08	450.01	449.50	458.31	-
Services, nec .....	89	13.71	13.97	14.57	15.13	-	504.53	522.48	521.61	537.12	-

<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> Excludes nonoffice commissioned real estate sales agents.

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1990 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 earning series for production workers in aircraft manufacturing (SIC 3721) and guided missiles and space vehicles manufacturing (SIC 3761) have been used to escalate labor costs in contracts between aerospace companies and their customers. Although the Bureau's series by definition take account of traditional wage rate changes, they do not capture "lump-sum payments to workers in lieu of general wage increases" which were negotiated in aerospace manufacturers' collective bargaining agreements beginning in late 1983.

Because of special circumstances in the aerospace

industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargaining agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table 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.

**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)			
	May 1990	June 1990	May 1991	June 1991 <sup>P</sup>	May 1990	June 1990	May 1991	June 1991 <sup>P</sup>
Average hourly earnings, excluding lump-sum payments .....	\$15.61	\$15.67	\$16.55	\$16.56	\$14.67	\$14.74	\$15.13	\$14.99
Average hourly earnings, including lump-sum payments .....	16.34	16.40	17.04	17.03	15.12	15.19	15.50	15.34

<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	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Manufacturing</b> .....	<b>\$10.36</b>	<b>\$10.40</b>	<b>\$10.72</b>	<b>\$10.71</b>	<b>\$10.75</b>
<b>Durable goods</b> .....	<b>10.86</b>	<b>10.89</b>	<b>11.27</b>	<b>11.27</b>	<b>11.31</b>
Lumber and wood products .....	8.68	8.75	8.87	8.93	(?)
Furniture and fixtures .....	8.25	8.24	8.45	8.47	(?)
Stone, clay, and glass products .....	10.48	10.54	10.76	10.76	(?)
Primary metal industries .....	12.15	12.30	12.61	12.63	(?)
Fabricated metal products .....	10.37	10.40	10.74	10.74	(?)
Industrial machinery and equipment .....	11.22	11.27	11.65	11.67	(?)
Electronic and other electrical equipment .....	9.88	9.96	10.30	10.32	(?)
Transportation equipment .....	13.46	13.42	14.16	14.14	(?)
Instruments and related products .....	10.88	11.00	11.32	11.30	(?)
Miscellaneous manufacturing .....	8.35	8.37	8.59	8.60	(?)
<b>Nondurable goods</b> .....	<b>9.68</b>	<b>9.74</b>	<b>10.00</b>	<b>9.97</b>	<b>\$10.03</b>
Food and kindred products .....	9.15	9.13	9.45	9.40	(?)
Tobacco products .....	16.70	16.90	17.48	17.61	(?)
Textile mill products .....	7.65	7.67	7.87	7.87	(?)
Apparel and other textile products .....	6.45	6.44	6.58	6.61	(?)
Paper and allied products .....	11.61	11.71	12.01	12.00	(?)
Printing and publishing .....	10.79	10.85	11.06	11.08	(?)
Chemicals and allied products .....	12.86	12.94	13.34	13.35	(?)
Petroleum and coal products .....	15.18	15.22	15.77	15.65	(?)
Rubber and misc. plastics products .....	9.31	9.40	9.68	9.65	(?)
Leather and leather products .....	6.73	6.63	7.00	6.96	(?)

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1990 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				
	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>	June 1990	July 1990	May 1991	June 1991 <sup>P</sup>	July 1991 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$9.97	\$9.99	\$10.31	\$10.31	\$10.30	\$346.96	\$348.65	\$352.60	\$357.76	\$355.35
Constant (1982) dollars .....	7.53	7.52	7.47	7.45	( <sup>2</sup> )	282.05	262.54	255.32	258.50	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	13.70	13.74	14.10	14.27	\$14.26	608.28	599.06	824.63	640.72	\$620.31
Constant (1982) dollars .....	10.35	10.35	10.21	10.31	( <sup>2</sup> )	459.43	451.10	452.30	482.95	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	13.68	13.76	13.96	13.87	\$13.97	534.89	528.38	533.27	538.77	\$539.24
Constant (1982) dollars .....	10.33	10.38	10.11	10.02	( <sup>2</sup> )	404.00	397.88	388.15	387.84	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.64	10.87	11.15	11.19	\$11.23	445.52	440.24	449.35	457.67	\$452.57
Constant (1982) dollars .....	8.19	8.19	8.07	8.09	( <sup>2</sup> )	336.50	331.51	325.38	330.69	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.87	13.00	13.17	13.17	\$13.22	507.08	513.50	508.36	514.95	\$510.29
Constant (1982) dollars .....	9.72	9.79	9.54	9.52	( <sup>2</sup> )	382.99	386.67	368.11	372.07	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	10.75	10.81	11.11	11.19	\$11.15	410.65	414.02	423.29	429.70	\$424.82
Constant (1982) dollars .....	8.12	8.14	8.04	8.09	( <sup>2</sup> )	310.16	311.76	306.51	310.48	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.74	6.73	6.97	6.97	\$6.96	196.81	199.68	199.34	203.52	\$203.93
Constant (1982) dollars .....	5.09	5.07	5.05	5.04	( <sup>2</sup> )	148.65	150.51	144.34	147.05	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.89	9.99	10.36	10.41	\$10.36	354.06	361.64	367.78	376.84	\$368.82
Constant (1982) dollars .....	7.47	7.52	7.50	7.52	( <sup>2</sup> )	267.42	272.32	266.31	272.28	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	9.73	9.76	10.21	10.19	\$10.15	317.20	321.10	329.78	334.23	\$330.89
Constant (1982) dollars .....	7.35	7.35	7.39	7.36	( <sup>2</sup> )	239.58	241.79	238.80	241.50	( <sup>2</sup> )

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

<sup>2</sup> Not available.  
<sup>P</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1990 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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>2</sup>	July <sup>2</sup>
<b>Total private</b> .....	34.5	34.5	34.6	34.2	34.4	34.6	34.1	34.3	34.2	34.0	34.3	34.5	34.1
<b>Mining</b> .....	43.7	43.9	44.7	44.0	44.9	44.8	44.4	44.9	44.6	44.3	44.9	44.9	43.8
<b>Construction</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> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Manufacturing</b> .....	40.9	40.9	40.9	40.7	40.6	40.7	40.4	40.3	40.3	40.2	40.4	40.8	40.7
<i>Overtime hours</i> .....	3.7	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.3	3.3	3.4	3.7	3.7
<b>Durable goods</b> .....	41.5	41.5	41.5	41.3	41.1	41.2	40.8	40.7	40.6	40.7	40.8	41.3	41.2
<i>Overtime hours</i> .....	3.8	3.9	3.8	3.8	3.5	3.8	3.3	3.2	3.2	3.3	3.3	3.7	3.7
Lumber and wood products .....	40.2	40.5	40.7	39.6	39.5	40.0	39.4	39.3	39.2	39.2	39.7	40.6	40.3
Furniture and fixtures .....	39.7	39.4	39.2	38.6	38.5	38.8	38.5	37.5	38.2	38.9	38.9	39.2	39.1
Stone, clay, and glass products .....	41.7	42.3	42.2	41.2	41.8	42.0	41.0	41.7	41.3	41.3	41.5	42.0	42.1
Primary metal industries .....	43.2	42.9	43.0	42.9	42.7	42.3	42.0	41.5	41.4	41.4	41.6	42.2	42.2
Blast furnaces and basic steel products ..	44.1	43.6	43.7	43.7	43.6	43.2	42.6	41.5	41.8	41.3	41.8	42.5	42.4
Fabricated metal products .....	41.7	41.6	41.6	41.2	40.8	41.1	40.6	40.7	40.6	40.7	40.8	41.3	41.4
Industrial machinery and equipment .....	42.0	42.1	42.1	42.1	41.8	42.1	41.6	41.5	41.5	41.3	41.2	41.7	41.6
Electronic and other electrical equipment ..	40.7	40.8	41.1	40.7	40.7	40.7	40.3	40.5	40.2	40.6	40.6	40.7	40.8
Transportation equipment .....	42.8	42.6	42.6	42.5	41.1	41.5	41.5	41.0	40.8	41.0	41.2	42.0	41.9
Motor vehicles and equipment .....	43.3	43.3	43.1	42.6	41.0	41.5	41.4	40.9	40.5	41.3	41.5	42.8	43.3
Instruments and related products .....	41.2	41.3	41.3	41.0	41.0	41.2	40.8	41.0	40.9	40.8	40.8	41.0	40.7
Miscellaneous manufacturing .....	39.5	39.9	39.9	39.6	39.6	39.3	39.0	39.3	39.3	39.2	39.3	39.6	39.2
<b>Nondurable goods</b> .....	40.1	40.1	40.2	40.0	39.9	40.0	39.9	39.8	39.9	39.7	39.9	40.1	40.1
<i>Overtime hours</i> .....	3.8	3.7	3.8	3.6	3.6	3.6	3.4	3.4	3.4	3.4	3.5	3.7	3.7
Food and kindred products .....	40.5	41.0	41.2	40.6	40.7	40.9	40.7	40.8	40.6	40.3	40.3	40.5	40.5
Tobacco 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> )
Textile mill products .....	40.2	40.0	39.9	39.6	39.3	39.4	39.4	39.2	39.4	39.6	40.2	40.8	40.8
Apparel and other textile products .....	38.6	38.6	38.8	38.4	38.3	38.6	38.3	38.5	38.8	38.4	38.7	38.9	37.0
Paper and allied products .....	43.5	43.5	43.2	43.5	43.5	43.5	43.0	43.0	43.2	42.9	43.0	43.2	43.5
Printing and publishing .....	38.0	38.2	38.0	37.9	37.8	37.8	37.7	37.8	37.6	37.5	37.5	37.8	37.6
Chemicals and allied products .....	42.4	42.3	42.7	42.6	42.6	42.9	42.6	42.4	42.7	42.4	42.5	43.0	42.6
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 .....	41.4	41.3	41.4	41.1	40.8	41.0	40.8	40.8	40.6	40.7	40.9	41.1	41.0
Leather and leather products .....	37.4	37.8	37.5	37.1	36.8	37.3	36.9	37.2	37.1	37.1	37.2	37.6	37.5
<b>Transportation and public utilities</b> .....	39.1	39.0	39.1	38.5	38.7	39.0	38.7	38.6	38.6	38.4	38.8	38.9	38.1
<b>Wholesale trade</b> .....	38.1	38.1	38.2	37.9	38.0	38.3	37.9	37.9	38.1	37.9	38.2	38.3	37.9
<b>Retail trade</b> .....	28.9	28.7	28.9	28.4	28.7	28.7	28.3	28.6	28.6	28.4	28.7	28.9	28.4
<b>Finance, insurance, and real estate</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> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Services</b> .....	32.5	32.5	32.8	32.3	32.5	32.8	32.2	32.5	32.4	32.2	32.5	32.7	32.2

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

<sup>2</sup> These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision.  
P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1987 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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>p</sup>	July <sup>p</sup>
<b>Total private</b> .....	124.0	123.9	124.4	122.6	122.9	123.3	121.3	121.5	120.9	120.0	121.2	122.1	120.4
<b>Goods-producing</b> .....	110.2	109.9	109.6	107.7	106.8	106.7	104.4	104.0	102.7	102.5	103.2	103.8	103.6
<b>Mining</b> .....	64.5	64.0	64.9	64.4	65.3	65.3	64.9	65.4	65.0	64.3	64.4	64.0	62.5
<b>Construction</b> .....	137.1	137.4	137.2	130.9	132.9	132.6	125.0	126.9	123.2	122.7	124.4	124.3	123.5
<b>Manufacturing</b> .....	107.4	107.1	106.6	105.6	104.0	103.9	102.7	101.6	100.9	100.7	101.2	102.1	102.1
<b>Durable goods</b> .....	106.8	106.1	105.3	104.2	102.1	102.0	100.4	98.8	97.8	97.9	98.4	99.4	99.3
Lumber and wood products .....	130.0	129.6	129.4	126.3	123.6	123.5	120.5	118.6	117.0	117.4	119.7	122.4	122.0
Furniture and fixtures .....	125.8	124.2	123.2	120.8	118.0	117.4	115.9	111.7	112.6	115.3	115.6	117.1	116.2
Stone, clay, and glass products .....	109.5	109.7	109.2	106.4	106.4	106.2	102.1	102.4	99.9	100.1	100.4	101.6	101.3
Primary metal industries .....	95.0	93.5	93.0	92.6	91.4	90.3	89.0	86.6	85.7	85.4	85.8	86.5	86.5
Blast furnaces and basic steel products .....	83.9	82.4	82.7	83.3	83.1	81.8	79.1	74.7	74.7	74.1	74.7	75.1	74.2
Fabricated metal products .....	109.2	108.6	107.6	106.8	104.4	104.6	103.2	100.8	99.9	100.0	100.4	101.7	101.8
Industrial machinery and equipment .....	97.8	97.6	96.7	96.6	95.2	95.3	93.8	93.0	92.5	91.3	90.5	90.9	90.2
Electronic and other electrical equipment .....	107.1	106.1	105.7	104.7	103.7	103.1	101.5	101.1	99.7	100.7	101.1	101.4	101.5
Transportation equipment .....	122.5	121.0	119.7	118.3	111.8	112.5	111.2	108.0	106.3	107.3	109.5	111.2	112.5
Motor vehicles and equipment .....	134.5	132.5	130.4	128.4	110.3	115.8	114.8	108.7	108.1	113.0	118.6	122.1	127.1
Instruments and related products .....	87.3	87.0	86.5	85.5	85.2	85.4	84.8	84.8	84.8	83.9	83.4	83.3	82.6
Miscellaneous manufacturing .....	101.9	102.0	102.0	101.3	100.2	99.4	98.0	98.0	96.9	96.3	96.2	97.4	97.4
<b>Nondurable goods</b> .....	108.4	108.5	108.4	107.6	106.7	106.7	105.9	105.5	105.2	104.5	105.2	105.9	106.1
Food and kindred products .....	109.5	110.7	111.4	110.4	110.3	111.2	110.8	111.0	111.0	109.6	110.0	110.7	109.7
Tobacco products .....	70.2	72.4	72.2	70.0	70.7	70.9	71.8	70.7	67.2	66.2	69.3	68.8	69.3
Textile mill products .....	98.8	98.1	97.5	95.9	95.0	94.2	93.7	92.3	92.3	93.0	95.2	96.6	97.8
Apparel and other textile products .....	93.5	93.5	93.2	92.3	91.0	91.3	89.9	90.3	90.5	89.8	91.2	92.2	93.9
Paper and allied products .....	111.6	111.3	110.8	111.1	110.5	110.2	109.9	109.9	109.7	108.6	108.8	108.9	109.7
Printing and publishing .....	128.6	128.8	128.0	127.4	126.4	126.0	125.1	124.4	123.5	122.8	122.1	122.5	122.2
Chemicals and allied products .....	104.6	104.1	104.6	104.4	104.1	104.2	103.4	102.8	103.1	102.4	101.6	102.6	101.5
Petroleum and coal products .....	86.7	86.3	87.7	86.0	90.3	85.6	84.5	85.9	86.3	87.0	88.4	85.7	85.6
Rubber and misc. plastics products .....	129.9	129.6	129.2	128.0	125.1	124.8	123.4	121.6	119.7	119.6	121.1	122.3	122.7
Leather and leather products .....	62.6	61.5	61.3	60.0	58.5	58.3	57.4	57.0	55.9	55.3	55.4	56.0	57.0
<b>Service-producing</b> .....	130.3	130.1	131.0	129.3	130.1	130.7	128.9	129.4	129.0	127.9	129.3	130.3	128.0
<b>Transportation and public utilities</b> .....	115.5	115.3	116.0	114.3	115.2	116.1	115.3	114.3	114.1	113.3	114.7	114.9	112.7
<b>Wholesale trade</b> .....	116.6	116.5	116.7	115.7	115.8	115.8	114.7	114.2	114.3	113.4	114.2	114.2	112.6
<b>Retail trade</b> .....	124.1	123.3	124.1	121.7	122.7	122.3	120.3	121.1	120.6	119.3	120.6	121.4	119.3
<b>Finance, insurance, and real estate</b> .....	120.7	120.8	122.3	119.4	120.2	121.6	120.4	120.2	119.9	118.3	119.7	121.2	118.1
<b>Services</b> .....	145.7	146.1	147.3	146.1	146.7	148.1	145.8	146.9	146.5	145.4	147.1	148.5	146.1

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

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1987 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	1990						1991						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>p</sup>	July <sup>p</sup>
<b>Average hourly earnings</b>													
<b>Total private (in current dollars) .....</b>	\$10.05	\$10.07	\$10.10	\$10.10	\$10.13	\$10.17	\$10.18	\$10.20	\$10.24	\$10.28	\$10.32	\$10.37	\$10.36
<b>Mining .....</b>	13.78	13.76	13.85	13.83	13.88	13.89	14.04	13.99	14.03	14.05	14.13	14.33	14.30
<b>Construction .....</b>	13.81	13.83	13.86	13.86	13.85	13.87	13.95	13.97	13.97	14.05	14.00	13.97	14.01
<b>Manufacturing .....</b>	10.87	10.89	10.91	10.96	10.96	10.99	11.02	11.03	11.05	11.12	11.15	11.19	11.23
<b>Excluding overtime<sup>2</sup> .....</b>	10.39	10.41	10.44	10.50	10.50	10.54	10.58	10.59	10.61	10.65	10.70	10.71	10.75
<b>Transportation and public utilities .....</b>	13.01	13.00	13.03	13.05	13.07	13.11	13.15	13.13	13.16	13.19	13.24	13.24	13.23
<b>Wholesale trade .....</b>	10.82	10.83	10.92	10.88	10.93	11.00	11.00	11.05	11.07	11.08	11.12	11.23	11.15
<b>Retail trade .....</b>	6.78	6.80	6.81	6.82	6.83	6.84	6.86	6.87	6.90	6.97	6.98	7.00	7.01
<b>Finance, insurance, and real estate .....</b>	10.03	10.04	10.12	10.09	10.12	10.22	10.17	10.22	10.32	10.28	10.35	10.49	10.40
<b>Services .....</b>	9.88	9.90	9.94	9.92	9.98	10.03	10.03	10.07	10.13	10.16	10.24	10.29	10.27
<b>Total private (in constant dollars)<sup>3</sup> .....</b>	7.57	7.51	7.48	7.43	7.43	7.44	7.42	7.43	7.46	7.47	7.47	7.49	(*)
<b>Average weekly earnings</b>													
<b>Total private:</b>													
In current dollars .....	346.73	347.42	349.46	345.42	348.47	351.88	347.14	349.86	350.21	349.52	353.98	357.77	353.28
In constant (1982) dollars <sup>3</sup> .....	261.09	259.27	258.67	254.17	255.66	257.41	253.02	254.81	255.07	253.83	256.32	258.50	(*)

<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 are currently projected from March 1990 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1987 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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Alabama</b> .....	41.3	40.3	41.0	\$9.32	\$9.64	\$9.64	\$384.92	\$388.49	\$395.24
Birmingham .....	40.8	40.6	40.3	9.67	10.16	10.22	394.54	412.50	411.87
Mobile .....	42.5	41.5	42.0	10.91	11.27	11.39	463.68	467.71	478.38
<b>Alaska</b> .....	44.4	43.6	48.1	12.90	12.57	11.61	572.76	548.05	558.44
<b>Arizona</b> .....	40.7	40.1	40.3	10.13	10.55	10.53	412.29	423.06	424.36
<b>Arkansas</b> .....	41.0	40.7	41.2	8.54	8.75	8.85	350.14	356.13	364.62
Fayetteville-Springdale .....	40.7	40.7	39.0	7.78	8.10	8.08	316.65	329.67	315.12
Fort Smith .....	40.1	39.3	40.8	8.87	9.00	9.12	355.69	353.70	372.10
Little Rock-North Little Rock .....	41.6	41.8	42.8	9.06	9.30	9.35	376.90	388.74	400.18
Pine Bluff .....	44.1	41.6	42.8	11.06	10.18	10.01	487.75	423.49	428.43
<b>California</b> .....	40.8	40.4	40.8	11.47	11.80	11.88	467.98	476.72	484.70
Anaheim-Santa Ana .....	41.4	40.0	40.8	11.50	11.98	12.00	476.10	479.20	489.60
Bakersfield .....	40.9	40.5	41.4	12.41	12.44	12.58	507.57	503.82	520.81
Fresno .....	39.8	39.8	39.9	9.55	10.02	10.12	378.18	398.80	403.79
Los Angeles-Long Beach .....	40.8	40.9	41.3	10.93	11.21	11.30	445.94	458.49	466.69
Modesto .....	40.7	39.9	40.8	10.82	11.25	11.38	440.37	448.88	464.30
Oakland .....	40.9	40.4	40.7	13.52	13.61	13.61	552.97	549.84	553.93
Oxnard-Ventura .....	41.8	39.6	41.0	10.72	11.18	11.10	448.10	442.73	455.10
Riverside-San Bernardino .....	40.5	40.3	40.8	10.36	10.67	10.73	419.58	430.00	437.78
Sacramento .....	40.1	39.2	39.8	11.79	12.39	12.45	472.78	485.69	495.51
Salinas-Seaside-Monterey .....	39.6	39.9	39.6	11.41	11.43	11.82	451.84	456.06	468.07
San Diego .....	41.2	40.3	40.7	11.55	11.90	11.88	475.86	479.57	483.52
San Francisco .....	39.8	40.1	39.8	12.73	12.91	12.96	506.65	517.69	515.81
San Jose .....	40.9	40.7	41.0	13.69	14.26	14.29	559.92	580.38	585.89
Santa Barbara-Santa Maria-Lompoc .....	40.7	41.5	41.8	11.81	12.43	12.50	472.53	515.85	522.50
Santa Rosa-Petaluma .....	38.0	38.0	37.9	11.43	11.82	11.84	434.34	449.18	446.74
Stockton .....	41.3	41.3	41.6	11.20	11.55	11.67	462.56	477.02	485.47
Vallejo-Fairfield-Napa .....	40.7	39.4	40.7	13.01	13.57	13.61	529.51	534.66	553.93
<b>Colorado</b> .....	41.6	40.1	40.5	10.90	11.47	11.46	453.44	459.95	464.13
Denver .....	41.3	40.4	40.8	12.32	12.51	12.48	508.82	505.40	508.37
<b>Connecticut</b> .....	42.0	41.2	41.5	11.50	11.87	11.94	483.00	489.04	495.51
Bridgeport-Milford .....	41.7	41.4	41.6	12.18	12.82	12.62	507.07	522.47	524.99
Hartford .....	42.4	40.7	41.4	12.39	12.74	12.58	525.34	518.52	520.81
New Britain .....	42.4	41.1	42.0	12.21	12.07	11.92	517.70	496.08	500.64
New Haven-Meriden .....	41.4	39.9	40.4	11.04	11.18	11.31	457.06	446.08	456.92
Stamford .....	40.7	41.3	40.9	12.36	12.09	12.03	503.05	499.32	492.03
Waterbury .....	41.8	42.4	42.7	10.59	10.66	10.87	442.66	460.46	464.15
<b>Delaware</b> .....	41.8	40.3	41.3	12.54	12.56	12.61	524.17	506.17	520.79
Wilmington .....	42.4	40.5	41.5	15.32	14.84	14.89	849.57	601.02	817.94
<b>District of Columbia:</b>									
Washington MSA .....	39.3	38.5	39.6	12.48	12.94	13.04	490.46	498.19	518.38
<b>Florida</b> .....	40.9	40.3	40.6	9.00	9.19	9.26	388.10	370.36	375.96
Fort Lauderdale-Hollywood-Pompano Beach .....	40.6	40.5	41.4	9.03	9.33	9.33	366.82	377.87	386.26
Jacksonville .....	41.5	40.8	42.0	9.34	9.73	9.78	387.61	395.04	410.76
Miami-Hialeah .....	39.6	38.9	38.9	7.50	7.59	7.69	297.00	295.25	299.14
Orlando .....	41.0	40.4	40.6	10.33	10.41	10.47	423.53	420.56	425.08
Pensacola .....	43.5	42.4	42.6	11.46	11.73	11.61	498.51	497.35	494.59
Tampa-St. Petersburg-Clearwater .....	41.3	39.8	40.2	9.31	9.45	9.58	384.50	376.11	385.12
West Palm Beach-Boca Raton-Deerway Beach .....	39.7	40.3	41.6	9.84	9.75	9.60	382.71	392.93	399.36
<b>Georgia</b> .....	41.3	40.7	41.6	9.11	9.44	9.53	376.24	384.21	396.45
Atlanta .....	42.0	40.3	41.8	10.61	11.11	11.23	445.62	447.73	469.41
Savannah .....	47.5	47.2	48.6	11.60	12.23	11.96	551.00	577.26	557.34
<b>Hawaii</b> .....	39.9	39.1	40.2	10.97	11.42	11.32	437.70	446.52	455.06
Honolulu .....	39.7	39.6	40.5	11.32	11.78	11.71	449.40	466.49	474.26
<b>Idaho</b> .....	38.0	39.2	39.4	10.69	10.91	11.12	406.22	427.67	438.13

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Illinois</b> .....	41.6	40.6	40.9	\$11.46	\$11.61	\$11.62	\$476.74	\$471.37	\$475.26
Aurora-Elgin .....	41.4	39.7	40.1	11.12	11.39	11.36	460.37	452.18	455.54
Bloomington-Normal .....	41.7	40.6	40.5	12.96	13.53	13.50	540.43	549.32	546.75
Champaign-Urbana-Rantoul .....	40.0	41.4	41.8	9.61	9.91	10.00	384.40	410.27	418.00
Chicago .....	41.6	40.5	40.8	11.17	11.36	11.39	464.67	460.08	464.71
Davenport-Rock Island-Moline .....	40.8	40.5	41.3	13.22	13.77	13.79	539.38	557.69	569.53
Decatur .....	42.3	42.6	43.6	14.80	15.20	15.11	626.04	647.52	658.80
Joliet .....	42.4	41.6	40.9	13.02	13.41	13.29	552.05	557.86	543.58
Kankakee .....	43.9	42.1	43.1	12.22	12.11	12.12	536.46	509.83	522.37
Lake County .....	40.8	40.2	40.7	11.42	11.90	11.85	463.65	478.38	482.30
Peoria .....	42.0	39.1	41.7	14.00	14.30	14.57	588.00	559.13	607.57
Rockford .....	42.1	40.6	40.1	12.48	12.82	13.04	525.41	520.49	522.90
Springfield .....	39.2	38.2	40.6	10.31	11.15	11.06	404.15	425.93	449.04
<b>Indiana</b> .....	42.0	40.8	41.8	12.06	12.38	12.41	506.52	505.10	518.74
Anderson .....	41.0	40.3	41.8	15.91	15.43	16.15	652.31	621.83	675.07
Bloomington .....	38.4	39.3	43.6	10.53	11.32	11.81	414.88	444.88	514.92
Elkhart-Goshen .....	40.1	40.2	40.5	10.07	10.19	10.32	403.81	409.64	417.98
Evansville .....	43.3	42.0	42.0	12.22	12.32	12.49	529.13	517.44	524.58
Fort Wayne .....	41.5	40.2	41.2	12.09	12.87	12.95	501.74	517.37	533.54
Gary-Hammond .....	43.6	41.0	40.4	16.05	16.54	16.19	699.78	678.14	654.08
Indianapolis .....	41.8	40.9	43.0	12.45	13.12	13.23	520.41	536.61	568.89
Kokomo .....	43.0	38.3	39.7	17.16	17.31	17.19	737.88	662.97	682.44
Lafayette-West Lafayette .....	43.1	40.7	41.0	12.08	12.81	12.84	520.65	521.37	526.44
Muncie .....	44.5	44.1	44.9	12.72	13.41	13.52	566.04	591.38	607.05
South Bend-Mishawaka .....	40.7	40.7	41.1	11.06	11.22	11.33	450.14	456.65	465.66
Terre Haute .....	43.2	41.1	41.9	9.98	11.56	11.44	431.14	475.12	479.34
<b>Iowa</b> .....	40.4	40.4	40.5	11.22	11.50	11.59	453.29	464.60	469.40
Cedar Rapids .....	38.9	39.1	39.9	13.92	14.03	14.63	541.49	548.57	583.74
Des Moines .....	38.5	41.4	41.1	12.36	12.49	12.44	475.86	517.09	511.28
Dubuque .....	40.9	40.4	40.7	12.05	12.06	11.00	492.85	487.22	447.70
Sioux City .....	42.3	38.1	38.4	9.06	9.28	9.37	383.24	353.57	359.81
<b>Kansas</b> .....	40.7	40.2	40.8	10.93	11.18	11.14	444.85	449.44	454.51
Topeka .....	38.6	39.9	39.4	12.18	12.53	12.84	470.15	499.95	505.90
Wichita .....	40.4	40.2	41.4	12.14	12.61	12.51	490.46	506.92	517.91
<b>Kentucky</b> .....	40.2	40.1	40.6	10.72	11.08	11.10	430.94	444.31	450.86
Lexington-Fayette .....	41.0	41.8	42.4	11.24	11.86	12.12	460.84	495.75	513.89
Louisville .....	40.5	41.7	41.7	12.40	12.82	12.70	502.20	534.59	529.59
<b>Louisiana</b> .....	43.1	42.3	42.6	11.59	11.96	11.86	499.53	505.91	505.24
Baton Rouge .....	44.2	44.2	43.1	13.61	13.61	13.99	601.56	601.56	602.97
New Orleans .....	42.2	41.6	40.8	11.09	11.46	11.30	468.00	476.74	461.04
Shreveport .....	42.1	40.5	42.1	11.83	13.26	12.79	498.04	537.03	538.46
<b>Maine</b> .....	40.2	39.4	39.6	10.43	11.08	11.07	419.29	436.55	438.37
Lewiston-Auburn .....	40.1	38.1	39.2	9.00	9.34	9.34	360.90	355.85	366.13
Portland .....	38.5	37.2	36.8	10.68	10.33	10.50	411.18	384.28	386.40
<b>Maryland</b> .....	41.0	40.3	40.7	11.63	11.84	11.85	476.83	477.15	482.30
Baltimore MSA .....	41.2	41.0	41.1	12.07	12.37	12.35	497.28	507.17	507.59
<b>Massachusetts</b> .....	40.8	40.6	41.0	11.40	11.72	11.75	465.12	475.83	481.75
Boston .....	40.7	40.2	40.4	11.87	12.48	12.50	483.11	501.70	505.00
Springfield .....	41.4	40.3	40.3	10.87	11.12	11.21	450.02	448.14	451.76
Worcester .....	41.3	42.1	42.3	11.08	11.14	11.19	457.60	468.99	473.34
<b>Michigan</b> .....	43.1	40.8	42.1	13.98	14.37	14.46	602.54	586.30	608.77
Ann Arbor .....	43.9	40.8	41.9	15.57	16.31	16.62	683.52	665.45	696.38
Battle Creek .....	42.6	42.7	42.2	15.13	15.33	16.22	644.54	654.59	684.48
Detroit .....	43.9	41.9	43.2	15.04	15.33	15.55	660.26	642.33	671.76
Flint .....	43.8	38.5	41.1	17.71	18.59	18.48	775.70	715.71	759.53
Grand Rapids .....	41.8	39.8	40.5	11.79	12.20	12.25	492.82	485.56	496.13
Jackson .....	41.3	40.4	43.0	11.09	10.83	10.71	450.02	429.45	460.53
Kalamazoo .....	41.2	40.7	41.2	13.92	14.46	14.45	573.50	588.52	595.34
Lansing-East Lansing .....	42.9	40.6	43.2	16.03	16.28	15.88	687.69	660.97	686.02
Muskegon .....	40.8	40.9	40.8	12.38	12.04	12.25	505.10	492.44	499.80
Saginaw-Bay City-Midland .....	44.3	41.8	42.0	16.33	16.59	16.60	723.42	693.46	697.20

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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Minnesota</b> .....	40.1	39.8	40.5	\$11.22	\$11.52	\$11.53	\$449.92	\$458.50	\$466.97
Duluth .....	42.8	40.4	40.9	11.48	11.33	11.15	491.34	457.73	456.04
Minneapolis-St. Paul .....	40.2	40.0	40.7	11.85	12.19	12.24	476.37	487.60	488.17
St. Cloud .....	40.8	38.9	40.9	9.91	9.99	10.14	404.33	388.61	414.73
<b>Mississippi</b> .....	39.9	38.9	40.3	8.38	8.66	8.64	334.36	336.87	348.19
Jackson .....	41.4	39.7	41.5	9.40	9.34	9.48	389.16	370.60	393.42
<b>Missouri</b> .....	41.0	40.1	40.4	10.81	10.81	10.82	443.21	433.48	437.13
Kansas City .....	41.0	41.5	42.0	11.54	12.21	12.44	473.14	506.72	522.48
St. Louis .....	42.4	41.1	41.1	13.01	13.04	12.87	551.62	535.94	528.96
Springfield .....	41.0	38.4	39.6	9.26	9.66	9.77	379.66	370.94	386.89
<b>Montana</b> .....	38.5	39.4	41.3	11.54	11.36	11.49	444.29	447.58	474.54
<b>Nebraska</b> .....	41.3	39.6	41.1	9.70	9.76	9.87	400.61	386.50	405.66
Lincoln .....	40.2	38.2	39.3	11.06	10.80	10.91	444.61	412.56	428.76
Omaha .....	41.6	40.6	42.3	10.38	10.37	10.50	431.81	421.02	444.15
<b>Nevada</b> .....	40.5	40.9	41.2	11.08	10.99	11.03	448.74	449.49	454.44
Las Vegas .....	42.2	40.3	39.7	12.91	12.85	12.94	544.80	517.86	513.72
<b>New Hampshire</b> .....	41.1	40.8	41.4	10.88	10.72	10.80	447.17	435.23	447.12
Manchester .....	41.8	41.2	42.0	10.69	10.80	10.82	446.84	444.96	454.44
Nashua .....	40.5	40.9	41.2	14.14	13.00	12.96	572.67	531.70	533.95
Portsmouth-Dover-Rochester .....	42.7	40.7	41.3	9.83	10.57	10.60	419.74	430.20	437.78
<b>New Jersey</b> .....	41.7	40.9	41.2	11.72	12.19	12.22	488.72	498.57	503.46
<b>New Mexico</b> .....	40.6	38.8	38.3	9.14	9.39	9.47	371.08	364.33	382.70
Albuquerque .....	41.0	40.6	40.2	9.16	9.68	9.63	375.56	393.01	387.13
<b>New York</b> .....	39.9	39.4	39.7	11.15	11.39	11.39	444.89	448.77	452.18
Albany-Schenectady-Troy .....	40.8	40.9	41.7	11.77	11.92	11.91	480.22	487.53	496.65
Binghamton .....	40.4	38.7	38.2	9.65	9.75	9.59	389.86	377.33	366.34
Buffalo .....	42.5	42.5	42.9	13.45	13.45	13.53	571.63	571.63	580.44
Elmira .....	39.6	40.6	40.0	9.87	10.44	10.43	390.85	423.86	417.20
Nassau-Suffolk .....	40.1	39.1	39.0	11.76	11.95	11.92	471.58	467.25	464.88
New York PMSA .....	37.4	37.2	37.7	10.43	10.51	10.49	390.08	390.97	395.47
New York City .....	37.1	37.0	37.5	10.20	10.33	10.28	378.42	382.21	385.50
Niagara Falls .....	41.2	39.8	39.8	14.51	14.51	14.64	597.81	574.60	582.67
Orange County .....	41.0	38.8	39.9	9.29	9.95	9.79	380.89	386.06	390.62
Poughkeepsie .....	40.9	39.9	40.4	10.76	11.27	11.24	440.08	449.67	454.10
Rochester .....	42.2	41.2	41.9	13.02	13.20	13.34	549.44	543.84	558.95
Rockland County .....	39.8	37.4	38.6	9.38	10.43	10.83	373.32	390.08	418.04
Syracuse .....	40.9	40.3	40.9	12.36	12.50	12.42	505.52	503.75	507.98
Utica-Rome .....	40.7	39.8	40.6	10.38	10.80	10.60	422.47	421.88	430.36
Westchester County .....	38.8	39.0	39.0	12.58	12.04	12.14	488.10	469.56	473.46
<b>North Carolina</b> .....	40.3	39.5	40.4	8.76	9.12	9.16	353.03	380.24	370.06
Asheville .....	41.8	40.3	41.2	8.83	9.01	9.12	369.09	363.10	375.74
Charlotte-Gastonia-Rock Hill .....	40.0	39.1	39.6	9.34	9.68	9.79	373.80	378.49	389.64
Greensboro-Winston-Salem-High Point .....	38.7	39.3	39.6	9.33	9.84	9.93	361.07	386.71	393.23
Raleigh-Durham .....	42.0	41.6	41.6	10.01	10.36	10.42	420.42	430.98	433.47
<b>North Dakota</b> .....	40.3	40.0	40.2	6.91	9.16	9.12	359.07	366.40	366.62
Fargo-Moorhead .....	38.3	37.9	37.5	8.76	9.13	9.17	335.51	346.03	343.88
<b>Ohio</b> .....	43.0	41.7	42.6	12.74	13.03	13.22	547.82	543.35	563.17
Akron .....	43.3	42.1	42.6	12.11	11.99	12.11	524.36	504.78	515.89
Canton .....	42.4	41.0	41.6	11.50	11.31	11.41	487.80	463.71	474.68
Cincinnati .....	43.6	42.4	42.9	12.11	12.47	12.62	528.00	528.73	541.40
Cleveland .....	43.4	41.4	42.4	12.31	12.45	12.66	534.25	515.43	536.78
Columbus .....	42.0	42.2	42.6	12.40	12.91	12.88	520.80	544.80	548.69
Dayton-Springfield .....	43.7	41.5	42.4	13.86	13.61	14.03	605.68	573.12	594.87
Toledo .....	43.4	42.1	42.2	13.50	13.56	13.96	585.90	570.88	589.11
Youngstown-Warren .....	43.3	41.3	42.2	14.69	15.24	15.58	636.08	629.41	657.48

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		
	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Oklahoma</b> .....	40.3	40.2	40.9	\$10.90	\$10.94	\$10.96	\$439.27	\$439.79	\$448.26
Oklahoma City .....	40.8	40.8	41.7	12.36	12.13	12.38	504.29	494.90	516.25
Tulsa .....	41.2	41.4	42.2	11.23	11.44	11.62	462.68	473.62	490.36
<b>Oregon</b> .....	39.2	39.5	40.6	11.05	11.44	11.52	433.16	451.88	467.71
Eugene-Springfield .....	38.3	39.1	40.2	10.82	11.26	11.37	414.41	440.27	457.07
Medford .....	39.2	39.4	41.1	10.90	11.29	11.32	427.28	444.83	465.25
Portland .....	39.1	39.9	40.7	11.23	11.60	11.62	439.09	462.84	472.93
Salem .....	37.6	38.0	38.1	9.72	10.21	10.15	365.47	387.98	386.72
<b>Pennsylvania</b> .....	40.9	40.1	40.5	11.00	11.39	11.44	449.90	456.74	463.32
Allentown-Bethlehem .....	39.9	39.5	39.5	10.94	11.50	11.49	436.51	454.25	453.86
Allentown-Bethlehem-East .....	39.1	39.1	39.5	9.59	9.26	9.44	374.97	362.07	372.88
Beaver County .....	43.2	43.5	44.5	11.04	11.39	11.57	476.93	495.47	514.87
Erie .....	43.3	41.4	41.9	11.53	11.88	12.00	499.25	491.83	502.80
Harrisburg-Lebanon-Carlisle .....	41.6	37.7	38.8	11.11	11.17	11.27	462.18	421.11	437.28
Johnstown .....	38.0	39.3	39.8	8.64	8.88	8.91	328.32	348.98	354.62
Lancaster .....	40.4	38.8	39.3	11.00	11.31	11.28	444.40	438.83	443.30
Philadelphia PMSA .....	40.4	39.9	40.1	11.91	12.30	12.34	481.16	490.77	494.83
Pittsburgh .....	42.0	40.9	41.3	11.45	11.72	11.75	480.90	479.35	485.28
Reading .....	41.3	40.4	40.2	11.47	11.99	11.97	473.71	484.40	481.19
Scranton-Wilkes-Barre .....	39.3	39.2	39.2	9.67	10.07	10.04	380.03	394.74	393.57
Sharon .....	42.9	41.6	42.3	11.92	12.44	12.53	511.37	517.50	530.02
State College .....	40.0	38.6	38.2	9.99	10.10	10.31	399.60	389.86	393.84
Williamsport .....	40.0	40.8	41.4	9.68	10.88	10.83	387.20	443.90	448.36
York .....	41.3	40.2	41.1	10.69	11.14	11.17	441.50	447.83	459.09
<b>Rhode Island</b> .....	40.2	39.8	40.1	9.40	9.69	9.77	377.88	385.66	391.78
Pawtucket-Woonsocket-Attleboro .....	39.3	38.7	39.5	8.97	9.01	9.19	352.52	348.69	363.01
Providence .....	39.9	39.4	39.7	8.94	9.85	9.95	356.71	388.09	395.02
<b>South Carolina</b> .....	40.8	40.4	40.8	8.87	9.09	9.14	361.90	367.24	372.91
Charleston .....	40.8	40.2	40.6	9.15	9.39	9.44	373.32	377.48	383.26
Columbia .....	41.9	41.0	41.0	9.13	9.33	9.40	382.55	382.53	385.40
Greenville-Spartanburg .....	40.9	40.4	40.8	8.79	9.09	9.14	359.51	367.24	372.91
<b>South Dakota</b> .....	41.5	40.2	41.1	8.45	8.69	8.65	350.68	349.34	355.52
Rapid City .....	44.7	35.6	37.3	9.08	9.62	9.73	405.88	342.47	362.93
Sioux Falls .....	43.4	40.4	41.3	8.65	8.93	8.99	375.41	360.77	371.29
<b>Tennessee</b> .....	38.9	39.1	39.6	9.60	9.93	9.95	373.44	388.26	394.02
Chattanooga .....	40.2	41.6	41.6	8.68	9.14	9.20	348.94	380.22	382.72
Johnson City-Kingsport-Bristol .....	41.3	40.3	41.1	9.59	10.66	10.87	396.07	429.60	446.76
Knoxville .....	39.1	38.8	39.7	9.19	9.88	9.99	359.33	383.34	396.60
Memphis .....	39.9	40.4	40.6	9.65	10.24	10.35	385.04	413.70	420.21
Nashville .....	39.4	41.0	41.5	11.51	11.03	10.77	453.49	452.23	446.96
<b>Texas</b> .....	42.0	42.0	42.1	10.48	10.83	10.89	440.16	454.86	458.47
Dallas .....	42.1	41.0	41.2	10.25	10.51	10.67	431.53	430.91	439.60
Ft. Worth-Arlington .....	41.0	42.2	41.4	11.18	11.70	11.62	458.38	493.74	481.07
Houston .....	44.7	44.9	45.0	12.11	12.55	12.61	541.32	563.50	567.45
San Antonio .....	41.8	40.5	41.0	7.80	8.22	8.31	326.04	332.91	340.71
<b>Utah</b> .....	39.5	39.3	40.0	10.27	10.64	10.70	405.67	418.15	428.00
Salt Lake City-Ogden .....	39.6	39.4	39.7	10.27	10.74	10.79	406.69	423.16	428.36
<b>Vermont</b> .....	41.0	40.4	41.5	10.51	11.00	10.95	430.91	444.40	454.43
Burlington .....	40.5	39.7	41.0	11.13	11.33	11.42	450.77	449.80	468.22
<b>Virginia</b> .....	40.8	40.2	40.8	10.06	10.35	10.42	410.45	416.07	425.14
Bristol .....	39.6	42.1	43.3	8.53	8.80	8.70	337.79	370.48	376.71
Charlottesville .....	41.9	40.7	43.1	8.82	9.07	8.93	369.56	369.15	384.88
Danville .....	39.9	41.1	41.6	9.74	10.25	10.12	388.63	421.28	420.99
Lynchburg .....	41.9	39.4	40.3	9.87	9.86	9.84	413.55	388.48	396.55
Northern Virginia .....	40.6	39.5	40.1	11.08	11.78	11.80	449.85	465.31	473.18
Richmond-Petersburg .....	43.6	41.2	41.9	13.31	13.49	13.65	580.32	555.79	571.94
Roanoke .....	40.7	40.4	40.9	11.60	12.13	11.87	472.12	490.05	485.48
<b>Washington</b> .....	40.7	39.8	40.1	12.74	13.24	13.27	518.52	526.95	532.13

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
West Virginia .....	41.1	40.4	41.2	\$11.41	\$11.60	\$11.69	\$468.95	\$468.64	\$481.63
Charleston .....	43.3	42.4	43.1	12.73	14.05	14.08	551.21	595.72	606.85
Huntington-Ashland .....	40.9	40.1	41.3	13.48	13.79	14.13	551.33	552.98	583.57
Parkersburg-Marietta .....	43.0	40.3	42.0	13.22	14.03	14.10	566.46	565.41	592.20
Wheeling .....	41.9	42.0	43.8	13.66	14.50	14.51	573.19	609.00	635.54
Wisconsin .....	41.6	40.8	41.0	11.06	11.44	11.36	460.10	466.75	485.76
Appleton-Oshkosh .....	43.6	42.5	43.0	11.94	12.25	12.21	519.39	520.63	525.03
Eau Claire .....	45.2	45.4	45.8	11.35	12.37	12.27	513.02	561.60	561.97
Green Bay .....	41.7	42.5	43.1	12.23	12.64	12.48	509.99	537.20	537.03
Janesville-Beloit .....	44.4	43.7	44.0	14.10	14.38	14.34	626.04	625.41	630.96
Kenosha .....	41.9	38.5	40.0	11.74	11.80	11.97	491.91	454.30	478.80
La Crosse .....	41.1	41.4	41.3	9.83	10.32	10.47	404.01	427.25	432.41
Madison .....	39.4	40.2	41.6	10.45	10.80	10.67	411.73	434.18	443.87
Milwaukee .....	41.7	40.9	40.7	11.66	12.27	12.27	494.56	501.64	499.39
Racine .....	40.2	39.7	40.6	11.49	12.19	12.19	461.90	483.94	494.91
Sheboygan .....	41.5	40.5	40.5	10.83	11.31	11.24	449.45	458.06	455.22
Wausau .....	44.4	42.0	42.6	11.07	11.23	11.35	491.51	471.66	483.51
Wyoming .....	40.0	38.1	38.7	10.95	10.89	10.82	438.00	414.91	410.99
Puerto Rico .....	39.5	38.6	39.3	6.04	6.29	6.32	238.58	242.79	248.38
Virgin Islands .....	42.9	40.8	41.5	11.99	12.55	12.44	514.37	512.04	516.26

<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 1990 benchmarks.

**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		
	May 1991 <sup>r</sup>	June 1991 <sup>r</sup>	July 1991 <sup>p</sup>	July 1990 to July 1991 <sup>p</sup>	May 1991 to June 1991 <sup>r</sup>	June 1991 to July 1991 <sup>p</sup>
Total .....	200,617	201,575	199,550	-2.4	0.5	-1.0
Private sector .....	163,754	164,772	162,745	-2.7	.6	-1.2
Mining .....	1,648	1,644	1,601	-1.7	-.3	-2.6
Construction .....	9,319	9,327	9,250	-8.4	.1	-.8
Manufacturing .....	38,831	38,962	38,953	-4.3	.3	.0
Durable goods .....	22,456	22,545	22,509	-6.1	.4	-.2
Nondurable goods .....	16,375	16,417	16,444	-1.8	.3	.2
Transportation and public utilities .....	11,740	11,754	11,507	-3.0	.1	-2.1
Wholesale trade .....	12,087	12,091	11,927	-3.1	.0	-1.4
Retail trade .....	28,862	29,064	28,588	-3.5	.7	-1.6
Finance, insurance, and real estate .....	12,390	12,616	12,397	-2.4	1.8	-1.7
Services .....	48,875	49,313	48,521	.4	.9	-1.6
Government .....	36,863	36,803	36,805	-1.3	-.2	.0

<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).



**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					
	I 1990'	II 1990'	III 1990'	IV 1990'	I 1991'	II 1991 <sup>P</sup>	I 1990'	II 1990'	III 1990'	IV 1990'	I 1991'	II 1991 <sup>P</sup>
<b>Business sector</b>												
Output per hour of all persons .....	-0.7	1.4	0.9	-1.2	0.0	1.6	-0.9	-0.6	-0.1	0.1	0.2	0.3
Output .....	1.4	1.2	.5	-3.4	-4.7	1.2	.3	.3	-.1	-1.6	-1.6	
Hours .....	2.1	-2	-.4	-2.1	-4.7	-5	1.1	1.0	.4	-2	-1.9	-1.9
Compensation per hour .....	4.6	6.1	5.0	3.3	4.0	4.4	3.0	3.7	4.5	4.8	4.6	4.2
Real compensation per hour .....	-2.6	2.1	-1.7	-3.4	.5	2.3	-2.1	-.8	-.9	-1.4	-.7	-.6
Unit labor costs .....	5.3	4.7	4.1	4.6	4.1	2.7	3.8	4.4	4.6	4.7	4.4	3.9
Unit nonlabor payments .....	3.3	4.5	1.7	-3.0	5.7	7.2	3.5	2.7	2.8	1.6	2.2	2.9
Implicit price deflator .....	4.6	4.6	3.2	2.0	4.6	4.3	3.7	3.8	4.0	3.6	3.6	3.5
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	-1.1	1.2	.6	-.8	.0	1.9	-1.0	-.7	-.4	-.1	.2	.4
Output .....	1.4	1.2	.4	-3.6	-4.8	1.3	.3	.3	.2	-.1	-1.7	-1.7
Hours .....	2.6	.0	-.1	-2.8	-4.9	-.5	1.3	1.0	.6	-.1	-2.0	-2.1
Compensation per hour .....	4.0	5.9	5.0	3.7	4.2	4.5	2.8	3.7	4.4	4.6	4.7	4.4
Real compensation per hour .....	-3.2	2.0	-1.8	-3.0	.7	2.3	-2.3	-.9	-1.1	-1.5	-.6	-.5
Unit labor costs .....	5.2	4.7	4.4	4.6	4.2	2.6	3.8	4.4	4.8	4.7	4.5	3.9
Unit nonlabor payments .....	1.2	5.1	1.9	-1.5	5.2	6.3	3.5	2.5	2.5	1.7	2.6	2.9
Implicit price deflator .....	3.8	4.8	3.6	2.5	4.5	3.8	3.7	3.8	4.0	3.7	3.8	3.6
<b>Manufacturing</b>												
Output per hour of all persons .....	3.9	3.8	6.1	-2.2	-1.8	3.6	1.2	1.6	3.7	2.9	1.4	1.4
Output .....	1.8	4.3	3.5	-8.1	-10.8	1.6	-.8	.2	1.9	.3	-3.0	-3.6
Hours .....	-2.0	.5	-2.4	-6.0	-9.1	-2.0	-1.9	-1.4	-1.8	-2.5	-4.3	-4.9
Compensation per hour .....	1.3	5.3	4.8	3.7	2.6	6.4	2.2	3.1	3.3	3.8	4.1	4.4
Real compensation per hour .....	-5.7	1.4	-1.9	-3.0	-.9	4.2	-2.9	-1.4	-2.2	-2.3	-1.1	-.4
Unit labor costs .....	-2.5	1.5	-1.1	6.0	4.5	2.6	1.0	1.4	-.4	.9	2.7	3.0
<b>Durable goods</b>												
Output per hour of all persons .....	4.3	7.4	8.4	-4.1	-1.6	3.8	2.1	2.5	4.7	3.9	2.4	1.5
Output .....	1.6	7.3	4.3	-12.1	-13.3	2.2	-1.2	.3	2.0	.0	-3.9	-5.1
Hours .....	-2.6	-.1	-3.8	-8.3	-11.9	-1.6	-3.2	-2.2	-2.5	-3.8	-6.1	-6.5
Compensation per hour .....	.9	5.3	5.6	3.8	2.8	6.5	2.3	3.2	3.2	3.9	4.4	4.7
Real compensation per hour .....	-6.0	1.3	-1.2	-3.0	-.7	4.4	-2.7	-1.4	-2.2	-2.3	-.9	-.2
Unit labor costs .....	-3.3	-2.0	-2.6	8.2	4.5	2.7	.2	.7	-1.4	.0	1.9	3.1
<b>Nondurable goods</b>												
Output per hour of all persons .....	3.4	-1.8	2.6	1.9	-1.4	3.3	.0	.4	2.3	1.5	.3	1.6
Output .....	2.3	.6	2.1	-.9	-6.4	.8	.0	.2	1.6	.7	-1.5	-1.1
Hours .....	-1.1	1.3	-.4	-2.7	-5.1	-2.5	.0	-.2	-.7	-.7	-1.8	-2.7
Compensation per hour .....	2.1	5.6	4.0	4.2	3.0	6.0	2.2	3.1	3.5	4.0	4.2	4.3
Real compensation per hour .....	-4.9	1.6	-2.7	-2.5	-.5	3.8	-2.8	-1.4	-1.9	-2.2	-1.0	-.5
Unit labor costs .....	-1.2	7.6	1.4	2.3	4.4	2.6	2.2	2.7	1.2	2.5	3.9	2.7
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-1.5	2.6	-.7	.2	-1.1	( <sup>†</sup> )	-.5	-.1	-.9	.1	.2	( <sup>†</sup> )
Output .....	.3	2.5	-.8	-4.1	-6.5	( <sup>†</sup> )	.7	.8	-.3	-.6	-2.3	( <sup>†</sup> )
Hours .....	1.8	.0	-.1	-4.3	-5.5	( <sup>†</sup> )	1.2	.9	.6	-.7	-2.5	( <sup>†</sup> )
Compensation per hour .....	2.8	7.6	4.8	3.6	3.8	( <sup>†</sup> )	2.3	3.7	4.3	4.7	4.9	( <sup>†</sup> )
Real compensation per hour .....	-4.3	3.6	-2.0	-3.1	.2	( <sup>†</sup> )	-2.7	-.9	-1.2	-1.5	-.4	( <sup>†</sup> )
Total unit costs .....	4.0	3.7	6.3	5.0	6.9	( <sup>†</sup> )	3.9	4.0	5.1	4.7	5.4	( <sup>†</sup> )
Unit labor costs .....	4.3	4.9	5.5	3.4	4.9	( <sup>†</sup> )	2.9	3.8	5.3	4.5	4.7	( <sup>†</sup> )
Unit nonlabor costs .....	3.3	.5	8.3	9.1	12.2	( <sup>†</sup> )	6.6	4.7	4.6	5.2	7.4	( <sup>†</sup> )
Unit profits .....	1.1	18.6	-25.3	-28.4	-6.8	( <sup>†</sup> )	-9.8	-5.9	-10.2	-10.5	-12.3	( <sup>†</sup> )
Implicit price deflator .....	3.8	4.8	3.4	2.2	5.9	( <sup>†</sup> )	2.7	3.2	3.8	3.5	4.1	( <sup>†</sup> )

<sup>1</sup> All of the productivity and cost measures incorporate revised seasonal factors for employment and average weekly hours and revised data for employees of nonagricultural establishments.

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.  
<sup>†</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					
	June 1990	May 1991	June 1991P	Number			Percent of labor force		
				June 1990	May 1991	June 1991P	June 1990	May 1991	June 1991P
<b>Alabama</b> .....	1,889.1	1,890.8	1,902.0	131.1	133.2	148.7	8.9	7.0	7.8
Birmingham .....	437.4	437.4	441.2	24.3	25.0	27.5	5.6	5.7	8.2
Huntsville .....	132.9	134.0	134.5	8.4	7.3	7.8	4.8	5.5	5.8
Mobile .....	212.3	211.9	214.5	15.7	15.0	17.2	7.4	7.1	8.0
Montgomery .....	137.5	136.4	135.9	9.2	8.5	9.5	6.7	8.2	7.0
Tuscaloosa .....	71.8	73.4	72.6	3.4	4.1	4.7	4.8	5.6	6.5
<b>Alaska</b> .....	264.9	259.6	264.6	17.6	19.8	20.6	6.6	7.6	7.8
<b>Arizona</b> .....	1,762.1	1,715.7	1,728.6	106.7	75.8	93.1	6.1	4.4	5.4
Phoenix .....	1,108.9	1,069.7	1,083.4	53.3	39.9	49.5	4.8	3.7	4.6
Tucson .....	314.6	318.3	315.4	14.6	9.2	10.9	4.7	2.9	3.5
<b>Arkansas</b> .....	1,131.8	1,140.9	1,137.4	84.9	85.4	86.5	7.5	7.5	7.6
Fayetteville-Springdale .....	63.1	64.4	63.6	2.6	2.3	2.4	4.1	3.5	3.7
Fort Smith .....	93.4	92.8	92.9	8.3	7.1	7.4	6.7	7.7	6.0
Little Rock-North Little Rock .....	286.6	289.8	270.1	18.2	16.9	18.2	6.8	6.3	6.7
Pine Bluff .....	38.8	37.9	37.8	3.5	4.0	4.3	9.1	10.6	11.4
<b>California<sup>1</sup></b> .....	14,852.9	14,655.0	14,823.7	742.8	1,120.4	1,190.9	5.0	7.6	8.0
Anaheim-Santa Ana .....	1,396.4	1,356.3	1,370.2	46.2	65.5	74.3	3.3	4.8	5.4
Bakersfield .....	237.9	231.8	238.5	22.9	26.6	28.5	9.6	11.6	11.1
Fresno .....	323.4	325.9	333.4	27.5	38.9	39.1	8.5	11.9	11.7
Los Angeles-Long Beach <sup>1</sup> .....	4,503.0	4,447.0	4,503.0	208.0	375.0	382.0	4.6	8.4	8.5
Modesto .....	166.8	165.5	171.7	19.2	26.1	28.4	11.5	15.8	16.6
Oakland .....	1,097.7	1,082.5	1,090.6	45.8	60.4	68.2	4.2	5.6	6.2
Oxnard-Ventura .....	379.5	362.5	369.0	18.3	22.5	26.4	4.8	6.2	7.2
Riverside-San Bernardino .....	1,082.9	1,095.8	1,099.4	66.8	101.1	107.0	6.2	9.2	9.7
Sacramento .....	743.7	730.7	742.0	34.0	48.4	53.0	4.6	6.6	7.1
Salinas-Seaside-Monterey .....	185.0	163.2	167.4	10.7	14.0	15.5	6.5	8.6	9.3
San Diego .....	1,183.8	1,160.6	1,167.6	51.6	73.8	83.2	4.4	6.4	7.1
San Francisco .....	878.7	859.5	867.5	29.7	38.4	44.4	3.4	4.5	5.1
San Jose .....	816.8	797.4	804.7	31.6	45.6	51.0	3.9	5.7	6.3
Santa Barbara-Santa Maria-Lompoc .....	183.4	177.5	179.5	7.0	9.3	10.6	3.8	5.2	5.9
Santa Rosa-Petaluma .....	211.2	213.2	215.7	9.1	12.6	13.8	4.3	5.9	6.4
Stockton .....	200.3	204.6	204.8	18.9	23.8	26.0	9.4	11.6	12.7
Vallejo-Fairfield-Napa .....	203.0	200.2	202.9	10.0	13.4	15.0	4.9	6.7	7.4
<b>Colorado</b> .....	1,795.0	1,779.3	1,799.7	100.1	97.4	63.8	5.6	5.5	4.7
Boulder-Longmont .....	139.9	139.7	140.1	5.9	5.3	5.0	4.2	3.8	3.5
Denver .....	908.7	909.0	916.0	48.1	45.2	39.5	5.3	5.0	4.3
<b>Connecticut</b> .....	1,832.6	1,777.1	1,814.8	94.6	92.3	12.9	5.2	5.2	6.2
Bridgeport-Milford .....	238.0	228.7	234.0	14.6	13.9	16.8	6.1	6.1	7.2
Hartford .....	444.9	428.8	438.0	20.9	20.5	25.5	4.7	4.8	5.8
New Britain .....	76.0	74.9	76.3	4.5	5.5	6.2	6.0	7.3	8.1
New Haven-Meriden .....	295.4	285.4	289.3	14.6	14.2	17.3	5.0	5.0	6.0
Stamford .....	117.8	114.4	118.0	4.1	4.0	4.9	3.5	3.5	4.2
Waterbury .....	106.0	101.9	104.5	7.8	7.9	9.5	7.3	7.7	9.1
<b>Delaware</b> .....	367.7	366.7	366.4	15.5	25.3	24.1	4.2	6.9	6.5
Wilmington .....	315.2	318.7	316.5	14.2	21.5	21.4	4.5	6.8	6.7
<b>District of Columbia</b> .....	300.1	278.8	294.3	23.4	22.8	22.5	7.8	8.2	7.6
Washington .....	2,226.4	2,197.6	2,233.3	79.8	98.8	103.2	3.6	4.5	4.6
<b>Florida<sup>1</sup></b> .....	6,362.2	6,403.3	6,454.9	419.9	460.1	506.9	6.8	7.2	7.9
Daytona Beach .....	158.9	162.5	164.5	9.1	10.8	11.7	5.7	6.7	7.1
Fort Lauderdale-Hollywood-Pompano Beach .....	658.3	662.4	668.3	40.5	49.6	53.0	6.1	7.5	7.9
Fort Myers-Cape Coral .....	149.2	159.8	159.7	8.7	9.8	10.4	4.5	8.2	6.5
Gainesville .....	108.5	109.9	108.0	3.9	4.5	4.8	3.6	4.1	4.5
Jacksonville .....	460.7	460.6	469.3	27.6	29.1	33.3	8.0	6.3	7.1
Lakeland-Winter Haven .....	183.6	180.0	183.1	21.5	18.3	21.4	11.7	10.2	11.7
Melbourne-Titusville-Palm Bay .....	196.4	192.8	195.1	11.3	13.5	14.6	5.7	7.0	7.5
Miami-Hialeah .....	948.0	943.4	946.5	71.1	84.5	86.9	7.5	9.0	9.2
Orlando .....	648.1	636.8	648.9	36.6	41.2	45.8	5.7	6.5	7.1
Pensacola .....	152.4	149.9	152.4	10.7	9.1	10.1	7.0	6.1	6.6
Sarasota .....	126.7	127.6	128.8	5.8	6.3	7.3	4.5	5.0	5.7
Tallahassee .....	138.3	137.2	138.1	7.1	6.0	7.1	5.2	4.4	5.1
Tampa-St. Petersburg-Clearwater .....	1,017.6	1,028.3	1,035.4	57.6	64.8	70.7	5.7	6.3	6.8
West Palm Beach-Boca Raton-Delray Beach .....	423.7	430.3	427.1	32.4	33.9	37.8	7.7	7.9	8.9

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Georgia</b>	3,213.6	3,184.8	3,174.7	184.9	188.7	203.0	5.6	5.9	6.4
Albany	54.5	54.6	54.3	4.0	3.4	3.9	7.3	6.3	7.2
Athens	77.0	75.3	75.0	3.7	3.5	3.9	4.8	4.6	5.2
Atlanta	1,514.6	1,509.2	1,503.2	81.2	67.5	93.5	5.4	5.6	6.2
Augusta	200.7	197.0	196.1	9.6	10.3	11.4	4.8	5.2	5.6
Columbus	100.5	99.7	99.8	6.3	5.9	6.4	6.3	5.9	6.4
Macon-Warner Robins	135.0	133.0	132.7	7.0	6.8	7.0	5.2	5.0	5.3
Savannah	117.3	116.6	116.2	6.5	6.1	6.7	5.5	5.2	5.8
<b>Hawaii</b>	541.9	554.2	565.5	15.2	15.5	17.8	2.8	2.8	3.1
Honolulu	393.5	400.1	407.1	9.9	9.7	10.9	2.5	2.4	2.7
<b>Idaho</b>	510.8	502.6	520.4	26.7	31.7	31.0	5.6	6.3	5.9
Boise City	117.2	116.3	120.3	4.3	4.9	5.2	3.6	4.2	4.3
<b>Illinois<sup>1</sup></b>	6,058.6	5,950.3	6,116.9	369.6	353.4	443.7	6.1	5.9	7.3
Aurora-Elgin	191.8	190.2	195.8	10.7	11.7	14.5	5.6	6.2	7.4
Bloomington-Normal	74.2	74.9	74.2	3.0	2.8	3.5	4.1	3.7	4.7
Champaign-Urbana-Rantoul	90.9	94.3	94.3	3.4	3.4	4.3	3.8	3.6	4.6
Chicago	3,301.3	3,246.2	3,330.1	197.3	189.9	237.6	6.0	5.9	7.1
Davenport-Rock Island-Moline	183.5	182.0	185.9	9.9	10.6	11.9	5.4	5.6	6.4
Decatur	61.0	59.5	61.8	4.4	4.5	5.5	7.3	7.6	8.9
Joliet	213.1	206.3	213.5	14.3	13.1	16.7	6.7	6.4	7.8
Kankakee	48.0	46.9	46.7	3.2	3.2	4.0	6.7	6.7	6.2
Lake County	316.7	308.6	320.7	11.9	11.4	15.0	3.8	3.7	4.7
Peoria	167.7	163.3	167.5	9.7	9.8	11.7	5.8	5.9	7.0
Rockford	158.8	154.3	158.9	9.9	9.8	12.6	6.3	6.4	7.9
Springfield	114.7	112.6	115.5	5.1	4.5	5.7	4.5	4.0	4.9
<b>Indiana</b>	2,880.4	2,837.8	2,864.2	137.8	169.1	170.4	4.8	6.0	5.9
Anderson	59.9	59.3	58.7	3.1	4.3	4.0	5.1	7.2	6.8
Bloomington	59.3	59.2	59.8	2.0	2.1	2.1	3.3	3.5	3.5
Elkhart-Goshen	96.7	93.7	94.9	4.9	5.2	5.3	5.1	5.6	5.6
Evansville	147.5	143.7	146.8	7.3	8.2	8.9	4.9	5.7	6.1
Fort Wayne	209.7	201.3	203.0	10.8	11.7	11.4	5.2	5.8	5.6
Gary-Hammond	270.8	262.9	266.9	15.3	19.2	19.8	5.6	7.3	7.4
Indianapolis	679.0	687.8	697.8	24.7	30.2	32.3	3.6	4.4	4.8
Kokomo	48.6	46.7	47.5	2.5	3.5	3.7	5.1	7.5	7.8
Lafayette-West Lafayette	67.3	65.9	65.9	1.7	2.3	2.3	2.6	3.5	3.5
Muncie	60.4	60.9	58.3	3.1	3.6	3.3	5.2	5.9	5.7
South Bend-Mishawaka	131.4	129.9	129.6	7.0	7.2	7.0	5.3	5.5	5.4
Terre Haute	60.9	60.4	60.7	2.8	3.4	3.4	4.3	5.7	5.6
<b>Iowa</b>	1,507.6	1,526.5	1,512.8	57.2	71.5	66.9	3.8	4.7	4.4
Cedar Rapids	96.4	98.6	96.7	4.9	5.4	4.7	5.1	5.5	4.8
Des Moines	235.7	239.7	238.8	7.4	9.5	9.0	3.1	4.0	3.8
Dubuque	43.9	46.1	46.3	2.1	2.4	3.8	4.8	5.3	8.2
Iowa City	60.6	63.3	61.2	1.0	1.1	1.1	1.6	1.8	1.7
Sioux City	61.0	62.6	62.3	2.5	3.0	2.9	4.1	4.8	4.6
Waterloo-Cedar Falls	70.6	75.8	72.8	3.1	4.7	4.1	4.5	8.2	5.7
<b>Kansas</b>	1,338.3	1,307.2	1,331.9	56.8	56.1	61.2	4.2	4.4	4.6
Lawrence	43.7	45.5	43.5	1.8	1.6	1.7	4.2	3.6	3.9
Topeka	95.6	91.7	93.6	4.3	4.4	4.6	4.5	4.6	4.9
Wichita	262.3	260.5	265.1	11.5	11.8	12.2	4.4	4.5	4.6
<b>Kentucky</b>	1,807.3	1,787.0	1,823.3	109.6	124.2	131.9	6.1	6.9	7.2
Lexington-Fayette	204.7	196.0	200.5	7.7	7.8	9.2	3.8	3.9	4.6
Louisville	537.7	528.0	532.4	30.0	34.2	29.3	5.6	6.5	5.5
Owensboro	46.1	44.3	45.2	2.8	3.0	3.5	6.1	6.8	7.7
<b>Louisiana</b>	1,905.7	1,897.9	1,962.5	128.5	136.0	144.6	6.7	7.2	7.4
Alexandria	58.7	57.8	60.3	4.1	4.1	4.3	7.0	7.0	7.1
Baton Rouge	275.8	274.0	284.0	16.9	18.1	19.4	6.1	6.6	8.8
Houma-Thibodaux	70.9	71.1	74.5	3.8	4.5	4.5	5.4	6.3	6.0
Lafayette	106.0	107.2	109.6	5.3	5.8	5.9	5.0	5.4	5.4
Lake Charles	81.7	79.9	83.5	5.5	6.2	6.9	6.7	7.7	8.3
Monroe	68.9	67.8	70.1	4.3	4.4	4.7	6.2	6.6	6.8
New Orleans	582.6	579.0	598.8	37.7	35.2	38.9	6.5	6.1	6.5
Shreveport	156.1	154.4	159.4	10.4	10.5	10.7	6.7	6.8	6.7
<b>Maine</b>	652.9	638.8	656.6	28.7	53.2	50.0	4.4	8.3	7.6
Lewiston-Auburn	43.1	43.4	43.7	2.7	4.8	4.8	6.2	10.9	10.9
Portland	136.7	131.2	134.3	4.3	8.1	8.1	3.2	6.2	6.0

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Maryland</b> .....	2,562.0	2,543.0	2,555.6	113.9	148.5	152.1	4.4	5.8	6.0
Baltimore .....	1,223.6	1,217.9	1,217.7	59.5	80.0	80.2	4.9	6.6	6.6
<b>Massachusetts</b> <sup>1</sup> .....	3,232.9	3,124.3	3,167.2	189.0	288.4	300.3	5.8	9.2	9.5
Boston .....	1,565.7	1,534.0	1,548.6	80.2	124.3	130.4	5.1	8.1	8.4
Brockton .....	100.7	99.0	99.9	7.8	11.2	11.6	7.8	11.4	11.6
Fall River .....	78.8	77.2	77.0	7.0	10.5	10.9	9.1	13.8	14.2
Fitchburg-Leominster .....	49.2	45.7	46.3	4.3	5.6	5.8	8.7	12.3	12.6
Lawrence-Haverhill .....	190.8	185.4	188.7	15.2	19.6	20.5	8.0	10.6	11.0
Lowell .....	157.0	148.6	150.0	11.1	15.2	16.1	7.1	10.2	10.7
New Bedford .....	87.9	87.1	88.4	7.3	11.3	11.5	8.3	12.9	13.0
Pittsfield .....	42.5	42.3	43.4	2.5	4.5	4.6	5.9	10.7	10.5
Springfield .....	259.8	257.2	258.9	15.0	24.1	25.5	5.8	9.4	9.8
Worcester .....	222.4	213.5	215.5	14.4	21.3	22.3	6.5	10.0	10.4
<b>Michigan</b> <sup>1</sup> .....	4,664.5	4,494.3	4,597.3	349.4	404.8	423.1	7.5	9.0	9.2
Ann Arbor .....	164.8	181.1	162.0	7.4	9.0	8.9	4.5	5.6	5.5
Battle Creek .....	65.3	82.8	63.8	5.3	5.3	5.4	8.1	6.4	8.5
Benton Harbor .....	79.3	77.7	79.2	6.4	7.1	7.7	8.0	9.2	9.7
Detroit .....	2,189.3	2,091.0	2,133.8	184.3	189.9	197.5	7.5	9.1	9.3
Flint .....	188.7	185.2	187.7	16.0	20.9	20.6	8.8	11.3	11.0
Grand Rapids .....	384.5	371.7	379.5	26.1	28.7	28.1	6.8	7.2	7.4
Jackson .....	67.6	84.5	66.2	5.4	6.5	6.7	7.9	10.0	10.2
Kalamazoo .....	120.7	115.8	117.9	7.0	6.9	7.5	5.8	5.9	6.3
Lansing-East Lansing .....	248.2	239.5	243.4	14.7	18.7	23.8	6.0	7.8	9.8
Muskegon .....	89.9	67.8	69.3	7.0	8.1	8.4	10.1	11.9	12.1
Saginaw-Bay City-Midland .....	189.0	184.3	188.7	14.0	15.6	14.9	7.4	8.4	7.9
<b>Minnesota</b> .....	2,419.4	2,467.4	2,499.2	110.7	138.4	118.9	4.6	5.5	4.8
Duluth .....	113.4	114.4	114.2	8.3	8.1	7.1	5.5	7.1	6.2
Minneapolis-St. Paul .....	1,416.8	1,421.2	1,436.8	60.4	72.1	64.9	4.3	5.1	4.5
Rochester .....	65.7	66.7	67.7	2.0	2.3	2.2	3.1	3.5	3.3
St. Cloud .....	100.6	106.1	105.2	5.4	6.9	5.8	5.4	6.5	5.5
<b>Mississippi</b> .....	1,201.0	1,198.5	1,223.8	98.1	101.9	128.0	8.2	8.5	10.5
Jackson .....	205.0	203.0	206.6	12.1	12.6	16.0	5.9	6.2	7.8
<b>Missouri</b> .....	2,875.8	2,688.4	2,710.5	141.4	180.7	191.0	5.3	6.7	7.0
Kansas City .....	887.5	865.5	861.4	41.2	49.4	52.9	4.8	5.7	6.0
St. Louis LMA .....	1,283.2	1,279.9	1,292.6	74.3	85.1	95.7	5.6	6.6	7.4
Springfield .....	131.3	131.3	133.5	5.5	7.0	7.2	4.2	5.3	5.4
<b>Montana</b> .....	408.8	405.5	410.4	21.9	28.0	28.3	5.4	6.4	6.4
<b>Nebraska</b> .....	851.8	875.1	874.7	16.8	22.5	20.5	1.9	2.6	2.3
Lincoln .....	129.4	134.7	132.2	2.0	2.9	2.7	1.5	2.1	2.0
Omaha .....	340.2	356.6	358.0	8.4	10.3	10.1	2.5	2.9	2.8
<b>Nevada</b> .....	626.3	644.4	659.0	31.2	39.0	39.5	5.0	6.1	6.0
Las Vegas .....	383.4	401.6	410.5	19.9	25.7	26.8	5.2	6.4	6.5
Reno .....	135.6	137.0	139.8	6.1	7.4	7.1	4.5	5.4	5.1
<b>New Hampshire</b> .....	637.1	641.2	643.8	38.8	46.0	46.7	6.1	7.2	7.3
Manchester .....	89.1	89.8	89.0	5.8	6.4	8.5	8.6	7.2	7.3
Nashua .....	102.1	99.6	100.2	7.2	7.2	8.0	7.0	7.3	7.9
Portsmouth-Dover-Rochester .....	143.4	143.5	144.2	5.8	7.3	7.3	4.0	5.1	5.1
<b>New Jersey</b> <sup>1</sup> .....	4,082.9	3,974.6	4,096.3	191.4	259.0	265.3	4.7	6.5	6.5
Atlantic City .....	197.2	181.2	194.9	9.5	14.2	14.1	4.8	7.9	7.3
Bergen-Passaic .....	710.2	684.6	700.6	30.6	42.5	42.9	4.3	6.2	6.1
Jersey City .....	277.0	287.8	272.8	20.0	24.8	25.0	7.2	9.3	9.2
Middlesex-Somerset-Hunterdon .....	592.0	584.5	598.9	20.4	29.6	29.8	3.4	5.1	5.0
Monmouth-Ocean .....	505.7	484.6	514.2	21.9	29.6	31.0	4.3	6.1	6.0
Newark .....	953.1	933.2	955.3	49.5	63.5	65.3	5.2	6.8	6.8
Trenton .....	175.6	172.1	176.3	8.6	9.1	9.4	3.8	5.3	5.3
Vineland-Millville-Bridgeton .....	61.5	61.1	63.3	4.3	6.4	6.4	7.1	10.5	10.2
<b>New Mexico</b> .....	710.8	712.7	722.7	52.8	54.3	61.2	7.4	7.6	8.5
Albuquerque .....	287.6	268.5	269.8	18.3	18.0	17.6	6.1	8.0	6.5
Las Cruces .....	60.4	59.7	59.6	5.0	5.0	5.6	8.3	8.4	9.4
Santa Fe .....	72.5	71.2	73.5	2.7	3.2	3.3	3.7	4.4	4.6

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		
	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>	June 1990	May 1991	June 1991 <sup>P</sup>
<b>Tennessee</b> .....	2,420.7	2,409.7	2,439.6	130.6	156.6	166.6	5.4	6.5	6.6
Chattanooga .....	212.6	212.6	213.9	10.3	13.4	13.6	4.9	6.3	6.4
Johnson City—Kingsport—Bristol .....	220.4	221.1	224.3	10.5	11.6	12.6	4.6	5.2	5.7
Knoxville .....	292.5	285.1	290.0	14.7	15.9	16.7	5.0	5.6	5.8
Memphis .....	476.2	475.8	481.5	24.0	27.3	29.7	5.0	5.7	6.2
Nashville .....	539.1	537.1	542.7	24.3	27.4	28.6	4.5	5.1	5.3
<b>Texas<sup>1</sup></b> .....	6,548.6	6,539.7	6,644.6	539.1	540.2	523.4	6.3	6.3	6.1
Abiene .....	50.5	50.3	50.1	3.2	3.0	2.7	6.3	5.9	5.5
Amarillo .....	97.9	95.7	96.3	5.3	4.7	4.5	5.4	4.9	4.6
Austin .....	440.4	442.9	445.4	21.5	19.5	19.6	4.9	4.4	4.4
Beaumont—Port Arthur .....	167.2	170.4	173.1	13.3	11.9	12.1	6.0	7.0	7.0
Brazoria .....	88.6	88.6	90.2	4.9	4.6	4.9	5.5	5.2	5.5
Brownsville—Harlingen .....	107.2	107.9	109.4	12.6	13.2	12.9	11.6	12.2	11.6
Bryan—College Station .....	59.6	62.7	59.1	2.3	2.2	2.1	3.9	3.5	3.6
Corpus Christi .....	166.2	166.6	170.6	11.5	12.5	12.1	6.9	7.4	7.1
Dallas .....	1,445.0	1,446.4	1,464.3	77.4	83.0	80.9	5.4	5.7	5.5
El Paso .....	251.9	254.6	256.2	27.4	26.4	25.4	10.9	10.4	9.9
Fort Worth—Arlington .....	746.4	742.5	750.6	42.5	47.4	45.6	5.7	6.4	6.1
Galveston—Texas City .....	113.3	111.0	113.0	6.3	7.6	7.4	7.3	6.9	6.5
Houston .....	1,753.1	1,754.3	1,767.7	94.5	96.5	94.9	5.4	5.5	5.3
Killeen—Temple .....	99.1	96.1	96.1	7.2	6.3	6.3	7.2	6.6	6.4
Laredo .....	53.3	52.6	53.2	5.4	4.6	4.5	10.1	9.2	6.6
Longview—Marshall .....	61.1	79.1	79.6	5.9	6.3	6.1	7.2	6.0	7.6
Lubbock .....	115.2	116.3	117.6	6.3	6.1	6.8	5.5	5.3	5.6
McAllen—Edinburg—Mission .....	163.2	156.6	156.9	25.6	24.4	21.9	15.7	15.4	14.0
Midland .....	46.6	47.9	48.6	2.6	2.5	2.4	5.7	5.2	4.9
Odessa .....	51.7	52.7	53.6	3.5	3.3	3.4	6.8	6.3	6.4
San Angelo .....	44.3	43.2	43.9	2.6	2.1	2.2	6.2	4.9	5.0
San Antonio .....	612.6	605.9	611.3	44.3	38.7	38.3	7.2	6.4	6.3
Sherman—Denison .....	47.6	47.7	47.6	2.5	3.1	2.8	5.2	6.4	5.9
Texarkana .....	57.7	58.9	57.0	3.7	4.6	4.4	6.4	6.0	7.6
Tyler .....	75.0	73.7	74.4	4.6	4.7	4.5	6.5	6.4	6.0
Victoria .....	36.7	36.6	37.2	1.8	1.6	1.8	4.9	5.0	4.8
Waco .....	94.0	92.9	93.6	6.7	5.9	6.0	7.2	6.4	6.4
Wichita Falls .....	55.6	55.6	56.0	3.7	3.8	3.6	6.7	6.7	6.4
<b>Utah</b> .....	796.0	802.1	810.5	36.2	35.4	44.7	4.5	4.4	5.5
Provo—Orem .....	116.3	117.4	118.7	4.7	4.4	6.0	4.0	3.7	5.1
Salt Lake City—Ogden .....	511.9	517.4	522.8	22.7	21.7	27.6	4.4	4.2	5.3
<b>Vermont</b> .....	312.1	300.2	309.2	13.8	20.9	21.5	4.4	7.0	6.9
Burlington .....	79.0	76.2	77.1	2.3	3.5	3.7	3.0	4.5	4.6
<b>Virginia</b> .....	3,209.4	3,255.6	3,316.4	139.8	179.3	198.1	4.4	5.5	6.0
Charlottesville .....	70.3	72.6	73.3	2.0	3.1	3.4	2.8	4.3	4.7
Danville .....	52.3	53.0	53.5	4.1	5.5	5.8	7.9	10.4	10.9
Lynchburg .....	74.4	75.4	76.2	3.5	4.3	4.7	4.7	5.7	6.2
Norfolk—Virginia Beach—Newport News .....	631.5	625.6	643.1	32.7	35.2	39.2	5.2	5.8	6.1
Richmond—Petersburg .....	459.6	469.9	479.8	19.5	24.1	26.6	4.2	5.1	5.6
Roanoke .....	122.6	126.1	127.8	3.8	5.9	6.0	3.1	4.7	4.7
<b>Washington</b> .....	2,536.4	2,493.1	2,555.7	105.6	149.2	149.2	4.2	6.0	5.8
Seattle .....	1,121.6	1,121.5	1,138.6	35.2	52.4	52.9	3.1	4.7	4.6
<b>West Virginia</b> .....	779.5	779.9	792.4	53.2	66.8	76.8	6.8	8.5	9.7
Charleston .....	120.8	120.4	122.1	8.5	7.9	8.9	5.4	6.5	7.3
Huntington—Ashland .....	133.6	133.7	135.2	8.2	10.8	11.9	6.2	7.9	8.8
Parkersburg—Marietta .....	73.7	73.8	74.2	4.3	4.8	5.6	5.8	6.5	7.8
Wheeling .....	72.6	72.2	72.4	4.0	4.4	4.6	5.6	6.2	6.4
<b>Wisconsin</b> .....	2,616.0	2,562.7	2,627.4	112.0	137.8	140.6	4.3	5.4	5.4
Appleton—Oshkosh—Neenah .....	178.3	172.5	179.2	6.4	6.9	12.2	4.8	5.1	6.6
Eau Claire .....	72.1	71.1	70.5	3.2	3.4	3.2	4.5	4.7	4.5
Green Bay .....	112.4	109.7	116.2	4.3	5.2	5.4	3.8	4.7	4.8
Janesville—Beloit .....	74.5	73.8	73.6	3.4	7.5	7.3	4.6	10.2	9.9
Kenosha .....	53.8	52.9	54.6	3.1	3.1	3.1	5.7	5.9	5.7
La Crosse .....	52.3	51.9	50.8	1.8	2.2	1.9	3.4	4.2	3.8
Madison .....	227.2	225.3	225.0	5.3	6.6	6.6	2.3	3.0	3.0
Milwaukee .....	769.5	743.1	744.0	34.7	36.3	36.3	4.5	4.9	5.2
Racine .....	91.5	89.2	89.2	4.2	6.1	5.5	4.6	6.9	6.2
Sheboygan .....	59.0	57.8	62.3	2.2	3.5	3.3	3.6	6.0	5.3
Wausau .....	63.3	65.0	65.2	2.5	4.4	3.6	3.9	6.8	5.5
<b>Wyoming</b> .....	252.3	244.8	249.8	10.3	12.2	11.4	4.1	5.0	4.6
Casper .....	31.9	32.0	31.5	1.4	1.8	1.7	4.4	5.8	5.3

<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 1990 have been benchmarked to 1990 Current Population Survey annual averages. Except in the

11 States and 2 areas designated by footnote 1, estimates for 1991 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 350,000 establishments employing over 41 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 untracted 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	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989	729	53,200	2,600	11,500
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	<b>Occupation—Continued</b>		
Women, 20 years and over	.16	.17	Precision production, craft, and repair	0.32	0.36
Both sexes, 16 to 19 years	.67	.81	Machine operators, assemblers, and inspectors	.49	.55
White workers	.11	.12	Transportation and material moving	.59	.66
Black workers	.51	.54	Handlers, equipment cleaners, helpers, and laborers	.72	.82
Married men, spouse present	.15	.17	Farming, forestry, and fishing	.68	.76
Married women, spouse present	.19	.21	<b>Industry</b>		
Full-time workers	.12	.12	Nonagricultural private wage and salary workers	.12	.13
Part-time workers	.34	.42	Mining	1.63	1.86
Unemployed 15 weeks and over	.06	.07	Construction	.65	.75
<b>Occupation</b>			Manufacturing	.26	.29
Executive, administrative, and managerial	.22	.24	Durable goods	.33	.37
Professional specialty	.19	.21	Non-durable goods	.42	.47
Technicians and related support	.47	.52	Transportation, communications, and public utilities	.42	.48
Sales	.29	.33	Wholesale and retail trade	.27	.30
Administrative support, including clerical	.23	.26	Finance and services	.20	.22
Private household	1.18	1.33	Government workers	.23	.25
Protective service	.76	.85	Agricultural wage and salary workers	1.16	1.32
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:

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

*Real earnings,* 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.

### 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

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

### 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 1990 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

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 M. Comparison of nonfarm employment benchmarks and estimates for March 1990**

(Numbers in thousands)

Industry	Benchmark	Estimate	Difference	
			Level	Percent
Total .....	109,114	109,343	-229	-0.2
Mining .....	692	715	-23	-3.3
Construction .....	4,865	4,906	-41	-.8
Manufacturing .....	19,160	19,109	51	.3
Transportation and public utilities .....	5,735	5,750	-15	-.3
Wholesale trade .....	6,167	6,326	-159	-2.6
Retail trade .....	19,302	19,361	-59	-.3
Finance, insurance, and real estate .....	6,681	6,774	-93	-1.4
Services .....	27,944	27,866	78	.3
Government .....	18,568	18,536	32	.2

**Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1990**

Industry	Benchmarks (thousands)	Sample coverage <sup>1</sup>		
		Number of establishments	Employees	
			Number (thousands)	Percent of benchmarks
Total .....	109,114	289,390	40,714	37
Mining .....	692	3,314	279	40
Construction .....	4,865	26,593	963	20
Manufacturing .....	19,160	52,304	9,236	48
Transportation and public utilities .....	5,735	214,686	22,370	41
Wholesale trade .....	6,167	25,029	1,153	19
Retail trade .....	19,302	57,331	4,214	22
Finance, insurance, and real estate .....	6,681	21,395	2,110	32
Services .....	27,944	66,947	6,506	23
Government:				
Federal .....	3,082	( <sup>3</sup> )	3,082	100
State .....	4,386	5,175	3,498	80
Local .....	11,100	16,616	7,303	66

<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 6,000 reports covering about 58 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 .....	.3	0.1	0.2
Mining .....	2.6	1.0	1.3
Construction .....	1.3	.2	.5
Manufacturing .....	.7	.1	.2
Durable goods .....	.6	.1	.3
Nondurable goods .....	.9	.1	.2
Transportation and public utilities .....	.6	.7	.6
Wholesale trade .....	1.5	.2	.4
Retail trade .....	.5	.2	.4
Finance, insurance, and real estate .....	.6	.2	.4
Services .....	.4	.4	.6
Government <sup>3</sup> .....	.3	-	-

<sup>1</sup> The average percent revision in employment for the 1986-90 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 .....	77,500	78,300	Nondurable goods—Continued		
Total private .....	60,600	58,900	Printing and publishing .....	2,000	1,900
Goods-producing industries .....	20,700	20,900	Chemicals and allied products ..	2,600	2,800
Mining .....	3,400	3,000	Petroleum and coal products ...	1,200	1,100
Oil and gas extraction .....	2,800	2,500	Rubber and misc. plastics		
Construction .....	12,800	13,600	products .....	1,600	1,600
General building contractors ..	5,300	5,500	Leather and leather products ..	1,300	1,200
Manufacturing .....	14,100	14,400	Service-producing industries .....	70,600	69,600
Durable goods .....	12,200	11,600	Transportation and public utilities ..	12,800	11,600
Lumber and wood products .....	2,100	1,900	Transportation .....	10,500	9,000
Furniture and fixtures .....	1,500	1,400	Communications and public utilities	5,000	4,500
Stone, clay, and glass products ..	1,400	1,400	Wholesale trade .....	7,200	6,200
Primary metal industries .....	3,800	3,300	Durable goods .....	5,000	4,200
Blast furnaces and basic			Nondurable goods .....	4,500	3,900
steel products .....	2,600	2,300	Retail trade .....	34,300	28,600
Fabricated metal products .....	2,200	2,100	General merchandise stores .....	20,700	18,500
Industrial machinery			Food stores .....	6,300	5,500
and equipment .....	3,900	3,300	Automotive dealers and		
Electronic and other			service stations .....	4,200	5,000
electrical equipment .....	4,100	3,800	Eating and drinking places .....	8,200	6,400
Transportation equipment .....	6,800	6,600	Finance, insurance, and real estate ..	7,500	6,400
Motor vehicles and equipment ..	5,700	6,100	Finance .....	4,300	3,900
Instruments and related products	2,000	2,100	Insurance .....	3,600	3,100
Miscellaneous manufacturing .....	1,700	1,600	Real estate .....	4,000	3,600
Nondurable goods .....	7,500	7,600	Services .....	31,300	32,800
Food and kindred products .....	5,100	4,600	Business services .....	12,100	11,800
Tobacco products .....	1,000	900	Health services .....	8,200	7,900
Textile mill products .....	1,900	1,700	Government .....	54,200	48,000
Apparel and other textile			Federal .....	17,500	14,000
products .....	3,300	3,300	State .....	20,700	17,200
Paper and allied products .....	1,700	1,500	Local .....	36,300	36,800

NOTE: Errors are based on differences from January 1985 through December 1990. Data used in the computations for several industries are not strictly comparable due to changes in the industrial classification system.

## 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 March 1991, new seasonal adjustment factors for May-October 1991, and a description of the current seasonal adjustment procedure appear in the June 1991 issue of *Employment and Earnings*.

**U.S. DEPARTMENT OF LABOR  
Bureau of Labor Statistics**

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