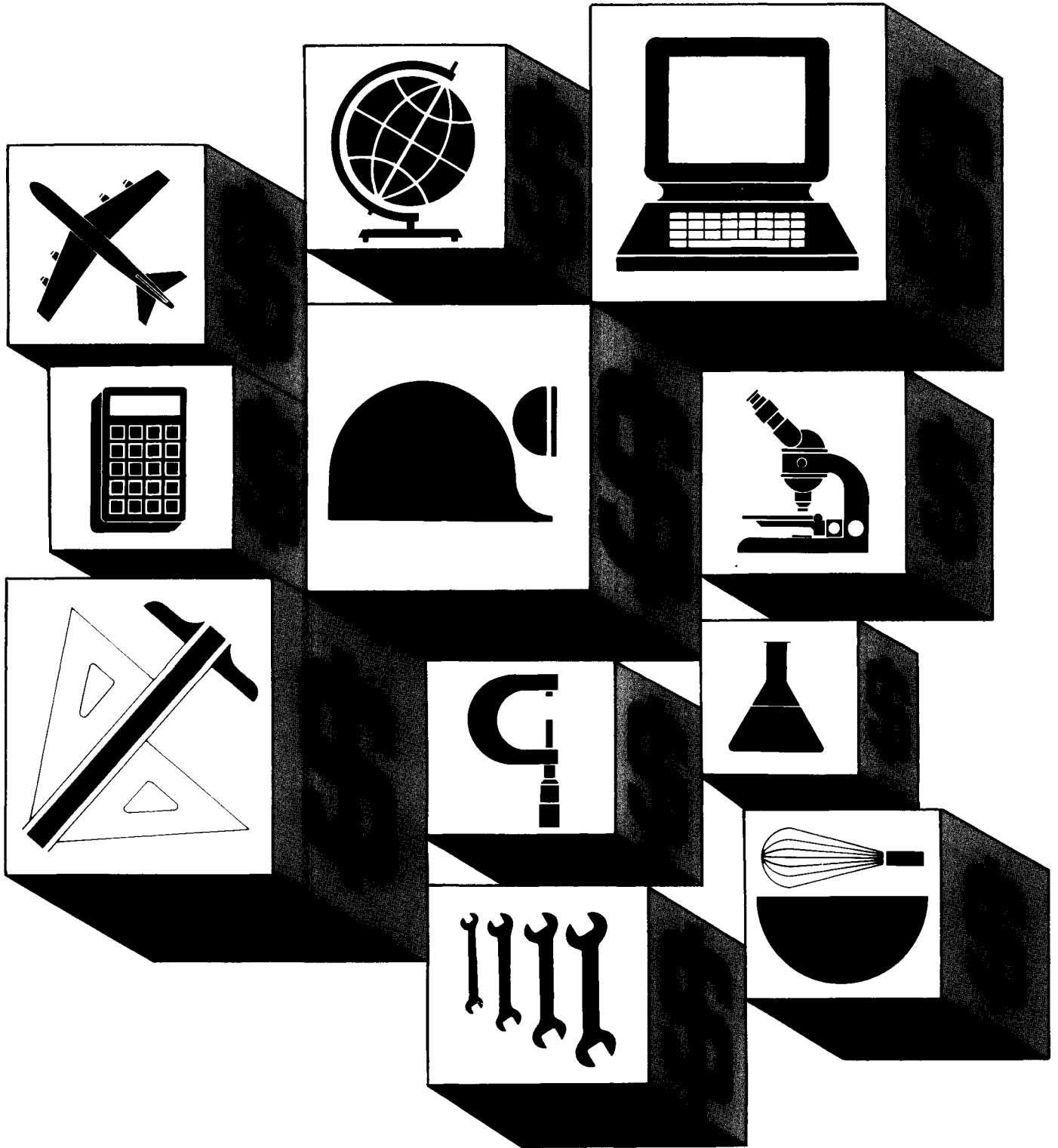




# EMPLOYMENT AND EARNINGS

In this issue: 1990 annual averages for national establishment survey data

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





## U.S. DEPARTMENT OF LABOR

Lynn Martin, Secretary

### BUREAU OF LABOR STATISTICS

Janet L. Norwood, *Commissioner*

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## Calendar of Features

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

### Household data

Annual averages	Jan.
Union affiliation	Jan.
Earnings by detailed occupation	Jan.
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 <sup>1</sup>
Revised historical national data	( <sup>2</sup> )
State and area annual averages	May
Area definitions	May

### State and area labor force data

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

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

# Employment and Earnings

Vol. 38 No. 3 March 1991

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Editors: Gloria Peterson Green, Rosalie K. Epstein

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# Employment and Unemployment Developments, February 1991

Employment continued to decline in February and unemployment rose sharply. The civilian worker unemployment rate was 6.5 percent, up from 6.2 percent in January and 5.3 percent last June.

Nonfarm payroll employment, as measured by the survey of business establishments, fell by 185,000 in February, as manufacturing, transportation, and retail trade experienced particularly large job losses. Total civilian employment, as measured through the household survey, was unchanged, following a large decline in January.

## Unemployment

The number of unemployed persons increased by 440,000 in February to a level of 8.2 million (after seasonal adjustment), and the civilian worker unemployment rate rose to 6.5 percent. This was the highest rate since March 1987. Since June of last year, the number of jobless workers has climbed by 1.6 million, and the unemployment rate has risen by 1.2 percentage points. (See table A-33.)

Adult men accounted for the upward movement in unemployment in February. Their jobless rate rose sharply, from 5.6 to 6.3 percent, while the rates for adult women (5.4 percent) and teenagers (17.1 percent) were little changed. Among the race-ethnic groups, the unemployment rate for whites rose from 5.5 to 5.9 percent, while those for blacks (11.8 percent) and Hispanics (9.5 percent) were essentially unchanged. The jobless rates in two male-dominated industries—construction and durable goods manufacturing—continued to rise in February. Over the past year, the workers in these industries experienced by far the greatest increases in unemployment. (See tables A-33, A-34, and A-39.)

The number of unemployed persons who lost their last jobs rose by 450,000 in February to 4.5 million. This figure has risen by 1.4 million since last July. Job losers now comprise 55.5 percent of the unemployed, the highest proportion since October 1983. (See table A-41.)

The number of persons working part time for economic reasons—sometimes called the underemployed or partially unemployed—increased by 550,000 to 6.1 million in February. This figure has risen substantially from the 4.9-million level that generally prevailed throughout the first half of 1990. (See table A-35.)

## Civilian employment and the labor force

Following a decline of 650,000 in January, total civilian employment was unchanged in February at 116.9 million, seasonally adjusted. The percentage of the working-age population that is employed (the employment-population ratio) was 61.8 percent in February, down from 63.0 percent a year earlier. (See table A-33.)

The civilian labor force, which has shown erratic movements in recent months, increased by 440,000 in February to 125.1 million. Over the past year, however, the civilian labor force has grown by a modest 630,000—an increase of only 0.5 percent. The labor force participation rate—the proportion of the working-age population that is either employed or actively seeking employment—was 66.1 percent in February, little different from the previous month and 0.4 percentage point lower than a year earlier. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment decreased by 185,000 in February to 109.6 million. The bulk of the decline occurred in manufacturing, and there were also substantial losses in retail and wholesale trade and in transportation and public utilities. For the seventh consecutive month, more industries had declines than increases. (See tables B-4 and B-7.)

Manufacturing employment fell by 125,000 in February, continuing a downward trend which started 2 years ago. Since January 1989, the number of factory jobs has decreased by over 1 million. Manufacturing job losses in February continued to be concentrated in durable goods, particularly in industrial machinery, autos and other transportation equipment, and fabricated metals. Smaller declines occurred among industries tied to construction—lumber and wood products and furniture and fixtures—as well as in primary metals and electronic equipment. In nondurable goods, small job losses took place in textiles and rubber and plastics. The only manufacturing industry in which there was an over-the-month employment gain was food processing, which has added more than 20,000 jobs in the last 8 months.

Despite relatively mild weather in February, construction employment showed only a slight rebound from the drop of 150,000 in the prior month (seasonally adjusted).

The recent string of job losses in this industry totals about 425,000 since last May.

The service-producing sector also lost jobs in February. Employment in retail trade fell by 70,000, after seasonal adjustment. In transportation, there was a 35,000 cutback, reflecting temporary layoffs and job terminations in the airline industry and continued declines in trucking. Also, employment declined by 25,000 in wholesale trade and 10,000 in finance, insurance, and real estate. Retail and wholesale trade combined has lost a total of 350,000 jobs since last summer.

The services industry, which had been growing robustly until late last year, has shown only small employment gains for the past 3 months. Health services has continued to grow, but at a more moderate pace, with an increase of 30,000 jobs in February. There was a further job decline (20,000) in business services, where reductions have totaled 75,000 since last September.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged up by 0.2 hour in February to 34.3 hours, seasonally adjusted, fol-

lowing a decline of 0.5 hour in January. The manufacturing workweek declined by 0.2 hour from its revised January level to 40.2 hours, and factory overtime edged down to 3.3 hours. The manufacturing workweek and overtime have been trending downward in recent months. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers increased by 0.3 percent to 122.3 (1982=100) in February, seasonally adjusted, as a result of the slight increase in hours. The index for manufacturing declined by 1.2 percent to 101.0, seasonally adjusted. Over the year, the index for manufacturing was down by 6.1 percent. (See table C-6.)

### Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers were unchanged at \$10.20, seasonally adjusted. Average weekly earnings increased by 0.6 percent to \$349.86. Prior to seasonal adjustment, average weekly earnings were up by \$1.03. Over the past year, average hourly earnings increased by 3.3 percent and average weekly earnings by 2.4 percent. (See tables C-1 and C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
March	April 5	June	July 5
April	May 3	July	August 2
May	June 7	August	September 6

**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	1,647	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,846	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	69,766	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	3,766	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,606	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,366	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	1,668	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>												
February .....	189,090	126,331	66.8	119,752	1,678	118,074	3,119	114,955	6,579	5.2	62,759	
March .....	189,198	126,467	66.8	119,904	1,669	118,235	3,197	115,038	6,563	5.2	62,731	
April .....	189,326	126,438	66.8	119,747	1,657	118,090	3,140	114,950	6,691	5.3	62,888	
May .....	189,467	126,578	66.8	119,916	1,639	118,277	3,286	114,991	6,662	5.3	62,889	
June .....	189,607	126,427	66.7	119,867	1,630	118,237	3,279	114,958	6,560	5.2	63,160	
July .....	189,763	126,338	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	128,338	66.4	119,001	1,615	117,386	3,185	114,201	7,337	5.6	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	6,158	6.4	64,039	

<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	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983 .....	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984 .....	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 <sup>1</sup> .....	87,349	68,973	78.7	62,443	1,551	60,892	2,511	58,381	4,530	6.6	20,376	
1987 .....	86,476	67,764	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989 .....	90,263	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>												
February .....	90,822	69,648	76.7	66,086	1,506	64,580	2,471	62,109	3,562	5.1	21,174	
March .....	90,674	69,867	76.7	66,104	1,497	64,607	2,497	62,110	3,563	5.1	21,207	
April .....	90,942	69,697	76.6	66,035	1,499	64,536	2,435	62,101	3,662	5.3	21,245	
May .....	91,014	69,729	76.6	66,061	1,472	64,569	2,562	62,027	3,666	5.3	21,285	
June .....	91,067	69,609	76.4	65,964	1,465	64,499	2,571	61,926	3,645	5.2	21,478	
July .....	91,166	69,523	76.3	65,728	1,462	64,266	2,478	61,768	3,795	5.5	21,645	
August .....	91,240	69,552	76.2	65,663	1,475	64,188	2,477	61,711	3,889	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	70,056	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	61,084	4,706	6.7	21,901	
<b>Annual averages</b>												
<b>WOMEN</b>												
1980 .....	86,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,661	
1981 .....	89,751	46,629	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,694	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	46,646	50.8	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	146	45,915	853	45,262	3,794	7.6	43,066	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,666	
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	668	49,666	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.8	51,858	162	51,696	678	51,020	3,046	5.5	42,014	
1989 .....	97,798	56,198	57.5	53,195	188	53,027	687	52,341	3,003	5.3	41,601	
1990 .....	98,564	56,719	57.5	53,644	165	53,479	679	52,800	3,075	5.4	41,845	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1990:</b>												
February .....	98,268	56,663	57.7	53,666	172	53,494	648	52,648	3,017	5.3	41,585	
March .....	98,324	56,800	57.6	53,800	172	53,628	700	52,928	3,000	5.3	41,524	
April .....	98,383	56,741	57.7	53,712	156	53,554	705	52,649	3,029	5.3	41,642	
May .....	98,453	56,849	57.7	53,855	167	53,688	724	52,964	2,994	5.3	41,604	
June .....	98,520	56,816	57.7	53,903	165	53,738	706	53,030	2,915	5.1	41,702	
July .....	98,595	56,613	57.6	53,781	165	53,616	690	52,988	3,032	5.3	41,762	
August .....	98,661	56,793	57.6	53,867	165	53,502	675	52,827	3,126	5.5	41,666	
September .....	98,731	56,757	57.5	53,831	180	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	5.6	42,155	
November .....	98,872	56,439	57.1	53,211	162	53,049	687	52,362	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	53,267	162	53,125	697	52,426	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	42,136	

<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	87,639	59.5	63,038	4,602	8.8	8.8	8.8
1959 .....	115,329	68,389	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 .....	124,465	73,091	58.7	69,305	3,766	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	2,632	3.5	2.6	4.7
1970 .....	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971 .....	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 <sup>1</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974 .....	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975 .....	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976 .....	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977 .....	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979 .....	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980 .....	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981 .....	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982 .....	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983 .....	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984 .....	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985 .....	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987 .....	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988 .....	184,613	121,869	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>								
February .....	187,412	124,653	66.5	118,074	6,579	5.3	5.2	5.3
March .....	187,529	124,798	66.5	118,235	6,563	5.3	5.2	5.3
April .....	187,669	124,781	66.5	118,090	6,691	5.4	5.4	5.4
May .....	187,828	124,939	66.5	118,277	6,662	5.3	5.4	5.3
June .....	187,977	124,797	66.4	118,237	6,560	5.3	5.3	5.1
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 .....	188,401	124,970	66.3	117,883	7,087	5.7	5.8	5.5
October .....	188,525	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

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

Explanatory Notes.

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	February 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>TOTAL</b>											
16 years and over .....	189,115	124,070	65.6	115,151	8,919	7.2	65,045	26,075	9,628	3,735	25,607
16 to 19 years .....	13,525	6,487	48.0	5,302	1,185	18.3	7,038	415	6,115	23	484
18 to 17 years .....	6,808	2,420	36.6	1,984	436	18.0	4,188	94	3,918	9	167
18 to 19 years .....	6,917	4,067	58.8	3,318	749	18.4	2,850	321	2,197	14	316
20 to 24 years .....	17,829	13,478	75.6	11,941	1,537	11.4	4,351	1,479	2,164	90	618
25 to 54 years .....	108,553	88,948	83.5	83,415	5,533	6.2	17,605	11,478	1,310	1,521	3,297
25 to 34 years .....	42,556	35,519	83.5	32,847	2,673	7.5	7,037	4,646	891	363	1,116
25 to 29 years .....	20,487	17,111	83.5	15,896	1,415	6.3	3,376	2,194	531	139	513
30 to 34 years .....	22,069	18,408	83.4	17,151	1,257	6.8	3,661	2,453	361	244	604
35 to 44 years .....	38,233	32,627	85.3	30,813	1,814	5.8	5,606	3,734	330	526	1,016
35 to 39 years .....	20,156	17,051	84.8	15,969	1,062	6.2	3,105	2,132	218	242	513
40 to 44 years .....	18,077	15,576	88.2	14,823	753	4.8	2,502	1,602	112	284	503
45 to 54 years .....	25,764	20,802	80.7	19,758	1,046	5.0	4,961	3,095	89	612	1,165
45 to 49 years .....	14,082	11,762	83.5	11,149	612	5.2	2,320	1,458	58	273	531
50 to 54 years .....	11,682	9,041	77.4	8,607	434	4.8	2,641	1,637	30	339	834
55 to 64 years .....	21,165	11,692	55.2	11,161	531	4.5	9,473	4,290	29	830	4,325
55 to 59 years .....	10,537	7,066	67.1	6,718	348	4.9	3,471	1,843	23	409	1,196
60 to 64 years .....	10,628	4,626	43.5	4,444	183	3.9	6,002	2,447	6	420	3,129
65 years and over .....	30,043	3,485	11.5	3,331	133	3.8	26,579	8,415	10	1,271	18,983
65 to 69 years .....	10,140	2,062	20.3	1,970	93	4.5	8,078	2,612	1	322	5,143
70 to 74 years .....	6,077	851	10.5	826	25	3.0	7,226	2,240	5	284	4,717
75 years and over .....	11,826	551	4.7	536	15	2.7	11,275	3,563	4	685	7,023
<b>Men</b>											
16 years and over .....	90,211	67,724	75.1	62,296	5,427	8.0	22,487	515	4,851	2,109	15,012
16 to 19 years .....	6,819	3,320	48.7	2,856	663	20.0	3,499	28	3,205	10	255
18 to 17 years .....	3,399	1,255	36.9	999	256	20.4	2,145	5	2,046	3	91
18 to 19 years .....	3,419	2,065	60.4	1,658	407	19.7	1,355	24	1,159	7	164
20 to 24 years .....	8,893	7,131	82.0	6,154	977	13.7	1,562	40	1,125	58	339
25 to 54 years .....	52,170	48,618	93.2	45,268	3,350	8.9	3,553	192	506	1,039	1,816
25 to 34 years .....	20,845	19,605	93.8	18,006	1,599	8.2	1,340	59	389	281	811
25 to 29 years .....	10,041	9,356	93.2	8,538	818	8.7	685	36	270	106	272
30 to 34 years .....	10,904	10,249	94.0	9,468	781	7.6	655	23	118	175	339
35 to 44 years .....	18,714	17,870	94.4	16,587	1,083	6.1	1,045	67	98	359	521
35 to 39 years .....	9,892	9,376	94.8	8,748	630	6.7	516	27	60	164	266
40 to 44 years .....	8,822	8,294	94.0	7,841	453	5.5	528	40	38	194	256
45 to 54 years .....	12,511	11,343	90.7	10,675	668	5.9	1,166	66	19	399	683
45 to 49 years .....	6,669	6,345	92.4	5,969	376	5.9	524	24	11	191	298
50 to 54 years .....	5,842	4,998	88.6	4,706	292	5.8	644	42	8	209	385
55 to 64 years .....	9,995	6,724	67.3	6,365	359	5.3	3,270	64	12	488	2,686
55 to 59 years .....	5,026	4,034	80.3	3,779	254	6.3	992	45	9	242	697
60 to 64 years .....	4,968	2,691	54.2	2,585	105	3.9	2,278	39	3	247	1,989
65 years and over .....	12,534	1,931	15.4	1,853	78	4.0	10,603	170	3	514	9,916
65 to 69 years .....	4,595	1,120	24.4	1,063	57	5.1	3,474	37	-	174	3,264
70 to 74 years .....	3,558	493	13.9	479	14	2.9	3,065	51	1	124	2,889
75 years and over .....	4,381	318	7.3	311	7	2.2	4,064	82	2	216	3,763
<b>Women</b>											
16 years and over .....	98,904	56,346	57.0	52,855	3,491	8.2	42,558	25,560	4,777	1,626	10,595
16 to 19 years .....	8,706	3,187	47.2	2,646	521	16.5	3,539	387	2,910	13	229
18 to 17 years .....	3,209	1,185	36.3	985	180	15.4	2,044	90	1,873	8	76
18 to 19 years .....	3,497	2,002	57.3	1,661	342	17.1	1,495	297	1,037	7	154
20 to 24 years .....	9,136	8,347	89.5	5,787	560	8.8	2,789	1,438	1,040	32	279
25 to 54 years .....	54,383	40,331	74.2	38,147	2,183	5.4	14,052	11,284	804	482	1,481
25 to 34 years .....	21,611	15,914	73.6	14,941	1,073	6.7	5,697	4,588	502	102	505
25 to 29 years .....	10,446	7,755	74.2	7,158	598	7.7	2,691	2,156	260	32	240
30 to 34 years .....	11,165	8,159	73.1	7,983	476	5.8	3,006	2,430	242	69	265
35 to 44 years .....	19,519	14,957	76.8	14,226	731	4.9	4,582	3,668	232	167	495
35 to 39 years .....	10,264	7,875	74.8	7,243	432	5.6	2,588	2,105	158	77	247
40 to 44 years .....	9,255	7,282	78.7	6,983	299	4.1	1,973	1,562	74	90	247
45 to 54 years .....	13,253	9,460	71.4	9,081	379	4.0	3,793	3,029	70	213	482
45 to 49 years .....	7,213	5,417	75.1	5,181	236	4.4	1,796	1,434	47	82	233
50 to 54 years .....	6,040	4,043	66.9	3,901	142	3.5	1,997	1,595	23	131	249
55 to 64 years .....	11,171	4,988	44.5	4,797	171	3.5	6,203	4,206	17	341	1,639
55 to 59 years .....	5,511	3,032	55.0	2,938	94	3.1	2,478	1,796	14	168	499
60 to 64 years .....	5,660	1,936	34.2	1,858	78	4.0	3,724	2,407	3	173	1,140
65 years and over .....	17,509	1,533	8.8	1,478	55	3.8	15,976	8,245	7	758	8,967
65 to 69 years .....	5,545	942	17.0	906	38	3.8	4,603	2,575	1	147	1,880
70 to 74 years .....	4,519	358	7.9	348	11	3.2	4,161	2,168	4	140	1,828
75 years and over .....	7,445	233	3.1	225	8	3.4	7,211	3,481	1	470	3,259

**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	February 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>WHITE</b>											
16 years and over .....	161,097	106,656	66.2	99,898	6,958	6.5	54,441	22,257	7,172	2,837	22,175
16 to 19 years .....	10,816	5,636	52.1	4,737	899	16.0	5,161	313	4,528	17	323
16 to 17 years .....	5,246	2,130	40.6	1,785	345	16.2	3,116	80	2,908	6	121
18 to 19 years .....	5,570	3,506	62.9	2,952	554	15.8	2,065	233	1,620	9	202
20 to 24 years .....	14,681	11,403	77.7	10,273	1,130	9.9	3,276	1,115	1,684	66	413
25 to 54 years .....	90,269	76,208	84.4	71,854	4,354	5.7	14,061	9,509	826	1,129	2,497
25 to 34 years .....	35,590	30,125	84.6	28,082	2,043	6.6	5,464	3,746	621	276	617
25 to 29 years .....	17,057	14,481	84.9	13,377	1,104	7.6	2,576	1,732	368	105	371
30 to 34 years .....	16,532	15,644	84.4	14,705	939	6.0	2,888	2,016	253	173	446
35 to 44 years .....	32,580	28,054	86.1	26,597	1,458	5.2	4,525	3,152	228	381	764
35 to 39 years .....	17,077	14,594	85.5	13,740	855	5.9	2,482	1,804	141	174	363
40 to 44 years .....	15,503	13,460	86.8	12,857	603	4.5	2,043	1,348	87	208	401
45 to 54 years .....	22,100	18,028	81.6	17,175	853	4.7	4,072	2,608	76	470	916
45 to 49 years .....	12,106	10,183	84.1	9,691	492	4.8	1,923	1,239	50	222	411
50 to 54 years .....	9,994	7,846	78.5	7,485	361	4.6	2,149	1,369	27	248	505
55 to 64 years .....	18,437	10,301	55.9	9,835	466	4.5	8,136	3,722	25	634	3,754
55 to 59 years .....	9,107	6,214	68.2	5,906	308	5.0	2,894	1,578	21	306	991
60 to 64 years .....	9,329	4,087	43.8	3,929	158	3.9	5,242	2,147	4	326	2,763
65 years and over .....	26,894	3,109	11.6	3,000	109	3.5	23,785	7,598	9	990	15,189
65 to 69 years .....	8,968	1,852	20.6	1,777	75	4.0	7,117	2,328	1	242	4,546
70 to 74 years .....	7,240	753	10.4	733	20	2.6	6,488	2,031	4	204	4,248
75 years and over .....	10,665	504	4.7	490	14	2.8	10,181	3,240	3	543	8,395
<b>Men</b>											
16 years and over .....	77,462	58,837	76.0	54,509	4,328	7.4	18,626	353	3,587	1,816	13,070
16 to 19 years .....	5,459	2,918	53.4	2,394	522	17.9	2,543	17	2,346	8	172
16 to 17 years .....	2,687	1,124	41.8	916	207	18.5	1,563	2	1,490	3	68
18 to 19 years .....	2,772	1,793	64.7	1,478	315	17.5	980	14	855	5	105
20 to 24 years .....	7,213	6,046	83.8	5,305	741	12.3	1,166	12	898	46	212
25 to 54 years .....	44,754	42,120	94.1	39,446	2,674	6.3	2,634	130	331	784	1,368
25 to 34 years .....	17,740	16,799	94.7	15,554	1,245	7.4	940	35	266	192	447
25 to 29 years .....	8,470	7,989	94.3	7,328	663	8.3	481	23	167	74	197
30 to 34 years .....	9,269	8,810	95.0	8,228	583	6.8	459	12	79	118	249
35 to 44 years .....	16,175	15,412	95.3	14,521	891	5.8	784	47	54	262	400
35 to 39 years .....	8,508	8,144	95.7	7,822	523	6.4	384	18	29	122	194
40 to 44 years .....	7,667	7,267	94.8	6,899	368	5.1	400	29	25	140	206
45 to 54 years .....	10,839	9,909	91.4	9,371	538	5.4	930	48	11	330	541
45 to 49 years .....	5,954	5,539	93.0	5,236	301	5.4	415	19	3	161	233
50 to 54 years .....	4,884	4,370	89.5	4,133	237	5.4	515	29	8	169	306
55 to 64 years .....	8,788	5,993	68.2	5,671	322	5.4	2,795	59	10	380	2,346
55 to 59 years .....	4,361	3,602	82.2	3,373	230	6.4	778	29	6	177	565
60 to 64 years .....	4,407	2,391	54.2	2,299	92	3.9	2,016	29	3	203	1,781
65 years and over .....	11,246	1,762	15.7	1,693	69	3.9	9,487	136	2	398	8,951
65 to 69 years .....	4,097	1,029	25.1	978	51	4.9	3,068	32	-	130	2,907
70 to 74 years .....	3,175	437	13.8	425	12	2.7	2,739	36	-	104	2,598
75 years and over .....	3,976	296	7.4	290	6	2.2	3,680	67	2	164	3,447
<b>Women</b>											
16 years and over .....	83,835	47,819	57.2	45,189	2,630	5.5	35,816	21,904	3,585	1,221	9,106
16 to 19 years .....	5,357	2,719	50.8	2,342	377	13.9	2,636	296	2,162	9	151
16 to 17 years .....	2,559	1,006	39.3	868	138	13.7	1,553	77	1,417	5	53
18 to 19 years .....	2,796	1,713	61.2	1,474	239	14.0	1,085	219	765	4	98
20 to 24 years .....	7,468	5,357	71.7	4,968	389	7.3	2,110	1,103	787	21	200
25 to 54 years .....	45,516	34,068	74.9	32,408	1,660	4.9	11,427	9,378	595	345	1,109
25 to 34 years .....	17,850	13,328	74.7	12,528	798	6.0	4,524	3,713	354	86	371
25 to 29 years .....	8,567	6,492	75.8	6,050	441	6.8	2,095	1,710	181	31	174
30 to 34 years .....	9,283	6,834	73.6	6,478	356	5.2	2,429	2,004	174	55	197
35 to 44 years .....	18,404	12,643	77.1	12,076	567	4.5	3,762	3,105	174	119	363
35 to 39 years .....	8,568	6,450	75.3	6,118	332	5.1	2,119	1,786	112	51	169
40 to 44 years .....	7,836	6,193	79.0	5,958	235	3.8	1,643	1,319	62	68	194
45 to 54 years .....	11,261	8,120	72.1	7,804	315	3.9	3,142	2,560	87	140	375
45 to 49 years .....	6,151	4,644	75.5	4,453	191	4.1	1,508	1,221	47	81	178
50 to 54 years .....	5,110	3,478	68.0	3,352	124	3.8	1,634	1,339	20	78	198
55 to 64 years .....	9,649	4,308	44.8	4,164	144	3.3	5,341	3,664	15	255	1,408
55 to 59 years .....	4,727	2,811	55.2	2,533	78	3.0	2,115	1,547	13	130	426
60 to 64 years .....	4,922	1,898	34.5	1,631	66	3.9	3,226	2,117	2	125	982
65 years and over .....	15,645	1,347	8.6	1,307	40	3.0	14,299	7,463	6	592	6,237
65 to 69 years .....	4,671	823	16.9	799	24	2.9	4,049	2,295	1	113	1,639
70 to 74 years .....	4,065	316	7.8	308	8	2.5	3,749	1,995	4	100	1,650
75 years and over .....	6,709	208	3.1	200	8	3.9	6,501	3,172	1	379	2,948

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	February 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>											
16 years and over .....	21,493	13,255	61.7	11,805	1,851	12.5	6,238	2,922	1,768	795	2,753
16 to 19 years .....	2,111	656	31.1	420	235	35.9	1,456	93	1,212	6	145
16 to 17 years .....	1,043	226	21.6	143	83	36.7	818	13	763	1	41
18 to 19 years .....	1,068	430	40.3	278	152	35.4	638	80	449	6	104
20 to 24 years .....	2,463	1,830	66.2	1,283	346	21.3	833	317	316	21	179
25 to 54 years .....	12,230	9,812	78.6	8,606	1,007	10.5	2,817	1,414	237	337	830
25 to 34 years .....	5,341	4,152	77.7	3,801	551	13.3	1,190	667	163	98	262
25 to 29 years .....	2,841	2,034	77.0	1,784	269	13.3	807	359	96	29	123
30 to 34 years .....	2,700	2,118	78.4	1,837	281	13.3	583	308	67	68	139
35 to 44 years .....	4,208	3,444	81.8	3,142	302	8.8	784	393	83	125	183
35 to 39 years .....	2,323	1,878	80.9	1,692	186	9.9	444	224	52	59	110
40 to 44 years .....	1,885	1,566	83.1	1,450	116	7.4	319	189	11	66	73
45 to 54 years .....	2,681	2,017	75.2	1,864	154	7.8	663	354	10	114	184
45 to 49 years .....	1,423	1,137	79.8	1,041	96	8.4	287	153	8	41	86
50 to 54 years .....	1,257	861	70.0	823	58	8.6	377	202	3	73	98
55 to 64 years .....	2,148	1,063	49.5	1,021	42	4.0	1,085	431	2	175	478
55 to 59 years .....	1,126	645	57.3	619	26	4.0	481	207	-	92	182
60 to 64 years .....	1,022	418	40.9	401	16	3.9	604	223	2	83	297
65 years and over .....	2,541	295	11.6	274	20	6.9	2,248	667	1	258	1,322
65 to 69 years .....	919	182	19.8	166	16	8.9	737	211	-	75	452
70 to 74 years .....	671	75	11.1	71	4	4.7	596	162	1	52	380
75 years and over .....	951	38	4.0	38	1	( <sup>1</sup> )	913	294	1	129	490
<b>Men</b>											
16 years and over .....	9,857	8,621	88.6	5,701	921	13.9	3,036	141	874	442	1,580
16 to 19 years .....	1,044	309	29.6	188	122	39.4	734	12	642	2	78
16 to 17 years .....	527	100	18.9	54	45	45.5	427	3	402	-	23
18 to 19 years .....	517	210	40.8	133	77	36.5	307	10	240	2	55
20 to 24 years .....	1,134	649	74.9	641	208	24.5	284	25	138	10	111
25 to 54 years .....	5,482	4,770	87.0	4,216	554	11.6	712	52	92	225	343
25 to 34 years .....	2,414	2,107	87.3	1,813	294	14.0	307	19	63	83	142
25 to 29 years .....	1,190	1,040	87.4	913	127	12.2	150	10	45	29	67
30 to 34 years .....	1,224	1,068	87.2	900	168	15.7	157	9	18	54	78
35 to 44 years .....	1,881	1,663	88.4	1,503	160	9.6	218	17	22	85	93
35 to 39 years .....	1,039	922	88.7	830	92	10.0	117	7	15	38	58
40 to 44 years .....	642	742	88.1	673	66	9.2	100	10	7	48	38
45 to 54 years .....	1,187	999	84.2	900	99	9.9	188	18	7	57	107
45 to 49 years .....	631	547	66.6	490	57	10.3	84	8	7	23	48
50 to 54 years .....	555	452	81.4	409	43	9.4	103	10	-	34	60
55 to 64 years .....	970	556	57.3	527	29	5.2	415	22	-	102	290
55 to 59 years .....	517	323	62.8	306	18	5.4	193	15	-	81	117
60 to 64 years .....	454	232	51.2	221	11	4.9	221	7	-	41	173
65 years and over .....	1,028	137	13.3	130	7	5.4	891	31	1	102	757
65 to 69 years .....	383	73	19.0	69	4	( <sup>1</sup> )	310	5	-	43	263
70 to 74 years .....	315	45	14.3	43	2	( <sup>1</sup> )	270	13	1	14	241
75 years and over .....	330	19	5.8	18	1	( <sup>1</sup> )	311	13	-	45	253
<b>Women</b>											
16 years and over .....	11,636	6,634	56.1	5,904	730	11.0	5,202	2,760	894	353	1,174
16 to 19 years .....	1,068	346	32.4	233	113	32.7	722	81	570	4	66
16 to 17 years .....	516	126	24.4	88	38	29.8	390	11	381	1	18
18 to 19 years .....	551	220	39.9	144	76	34.4	391	70	209	4	49
20 to 24 years .....	1,329	780	58.7	642	136	17.7	549	292	178	11	68
25 to 54 years .....	6,748	4,843	71.8	4,390	453	9.3	1,905	1,363	144	111	287
25 to 34 years .....	2,928	2,044	69.8	1,788	256	12.5	883	648	101	15	120
25 to 29 years .....	1,451	994	68.5	851	143	14.4	457	349	51	1	56
30 to 34 years .....	1,476	1,050	71.1	937	114	10.8	426	299	49	14	64
35 to 44 years .....	2,327	1,780	76.5	1,639	142	8.0	546	376	41	39	90
35 to 39 years .....	1,264	957	74.5	862	94	9.8	327	217	38	21	53
40 to 44 years .....	1,043	624	79.0	776	48	5.6	219	159	4	18	37
45 to 54 years .....	1,494	1,018	68.2	964	54	5.3	476	338	3	57	77
45 to 49 years .....	782	590	74.4	551	39	8.6	202	147	-	17	38
50 to 54 years .....	702	429	61.1	413	15	3.6	273	192	3	40	39
55 to 64 years .....	1,177	507	43.1	494	13	2.6	670	408	2	73	188
55 to 59 years .....	609	322	52.8	313	8	2.6	288	192	-	31	65
60 to 64 years .....	568	185	32.6	181	5	2.6	383	216	2	42	123
65 years and over .....	1,513	158	10.4	145	13	8.3	1,355	637	-	154	565
65 to 69 years .....	536	109	20.3	97	12	11.0	427	206	-	32	189
70 to 74 years .....	356	30	8.3	29	1	( <sup>1</sup> )	326	149	-	38	139
75 years and over .....	621	19	3.1	19	-	( <sup>1</sup> )	602	281	1	64	237

<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	February 1991								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	28,017	17,414	62.2	15,453	155	15,299	1,961	11.3	10,603
16 to 19 years .....	2,708	851	31.4	565	5	561	266	33.6	1,857
16 to 17 years .....	1,362	290	21.3	199	3	196	91	31.3	1,072
18 to 19 years .....	1,346	561	41.7	366	2	365	195	34.7	785
20 to 24 years .....	3,148	2,075	65.9	1,689	19	1,649	406	19.6	1,073
25 to 54 years .....	16,284	12,740	78.2	11,561	94	11,467	1,179	9.3	3,543
25 to 34 years .....	6,967	5,394	77.4	4,784	27	4,737	630	11.7	1,573
25 to 29 years .....	3,430	2,630	76.7	2,319	15	2,304	311	11.8	800
30 to 34 years .....	3,537	2,784	78.1	2,445	12	2,433	318	11.5	773
35 to 44 years .....	5,654	4,573	80.9	4,218	38	4,180	357	7.8	1,061
35 to 39 years .....	3,079	2,457	79.8	2,250	19	2,231	207	8.4	622
40 to 44 years .....	2,574	2,116	82.2	1,966	17	1,949	149	7.1	459
45 to 54 years .....	3,664	2,774	75.7	2,581	31	2,549	193	7.0	890
45 to 49 years .....	1,976	1,579	79.9	1,459	17	1,442	120	7.6	397
50 to 54 years .....	1,687	1,195	70.8	1,122	14	1,108	73	6.1	492
55 to 64 years .....	2,728	1,391	51.0	1,326	28	1,298	65	4.7	1,337
55 to 59 years .....	1,429	652	59.6	612	12	600	40	4.7	577
60 to 64 years .....	1,299	539	41.5	514	16	496	25	4.8	760
65 years and over .....	3,149	358	11.3	332	8	324	24	6.9	2,793
65 to 69 years .....	1,172	211	18.0	193	4	188	18	8.5	961
70 to 74 years .....	837	98	11.8	93	-	93	6	5.9	738
75 years and over .....	1,141	47	4.1	48	4	42	1	( <sup>1</sup> )	1,064
<b>Men</b>									
16 years and over .....	12,748	8,887	69.7	7,787	128	7,659	1,100	12.4	3,861
16 to 19 years .....	1,360	403	29.7	262	5	257	141	35.1	956
16 to 17 years .....	712	131	18.4	82	3	79	49	37.1	561
18 to 19 years .....	647	272	42.1	179	2	178	93	34.0	375
20 to 24 years .....	1,479	1,085	73.3	649	19	630	236	21.7	394
25 to 54 years .....	7,417	6,498	87.6	5,822	75	5,747	676	10.4	919
25 to 34 years .....	3,205	2,806	87.5	2,452	22	2,430	354	12.6	400
25 to 29 years .....	1,571	1,367	87.0	1,211	13	1,198	155	11.4	204
30 to 34 years .....	1,635	1,439	88.0	1,240	9	1,231	199	13.8	196
35 to 44 years .....	2,539	2,258	88.9	2,066	28	2,038	192	8.5	281
35 to 39 years .....	1,384	1,231	89.0	1,125	17	1,108	107	8.7	153
40 to 44 years .....	1,155	1,027	88.9	942	11	930	85	8.3	128
45 to 54 years .....	1,872	1,434	85.8	1,304	24	1,279	130	9.1	238
45 to 49 years .....	915	806	88.1	731	10	721	75	9.3	109
50 to 54 years .....	757	628	82.9	573	14	559	55	8.8	129
55 to 64 years .....	1,207	731	60.8	694	21	672	38	5.1	476
55 to 59 years .....	645	431	66.8	407	8	399	25	5.7	214
60 to 64 years .....	561	300	53.4	287	13	273	13	4.3	262
65 years and over .....	1,286	170	13.2	161	6	153	9	5.4	1,118
65 to 69 years .....	497	91	18.4	85	4	81	6	6.7	406
70 to 74 years .....	383	57	14.8	54	-	54	2	( <sup>1</sup> )	326
75 years and over .....	406	22	5.4	21	4	17	1	( <sup>1</sup> )	384
<b>Women</b>									
16 years and over .....	15,289	8,527	55.8	7,666	26	7,639	862	10.1	6,742
16 to 19 years .....	1,349	448	33.2	303	-	304	145	32.3	901
16 to 17 years .....	650	159	24.5	117	-	117	42	26.8	491
18 to 19 years .....	699	289	41.3	187	-	187	102	35.4	410
20 to 24 years .....	1,668	990	59.3	819	-	819	171	17.2	878
25 to 54 years .....	8,887	6,243	70.4	5,739	20	5,719	504	8.1	2,624
25 to 34 years .....	3,781	2,588	68.8	2,312	5	2,308	278	10.7	1,173
25 to 29 years .....	1,859	1,263	68.0	1,107	1	1,106	158	12.4	586
30 to 34 years .....	1,902	1,325	69.6	1,205	3	1,202	120	9.0	577
35 to 44 years .....	3,114	2,314	74.3	2,150	8	2,142	185	7.1	800
35 to 39 years .....	1,695	1,225	72.3	1,125	2	1,123	100	8.2	470
40 to 44 years .....	1,419	1,089	76.7	1,025	8	1,019	64	5.9	330
45 to 54 years .....	1,992	1,340	67.3	1,277	7	1,270	63	4.7	652
45 to 49 years .....	1,062	773	72.8	728	7	721	45	5.9	288
50 to 54 years .....	930	567	60.9	549	-	549	18	3.1	363
55 to 64 years .....	1,521	690	43.4	633	7	626	27	4.1	861
55 to 59 years .....	784	421	53.7	405	4	401	18	3.7	363
60 to 64 years .....	736	239	32.5	228	3	225	12	4.9	498
65 years and over .....	1,863	186	10.0	171	-	171	15	8.2	1,877
65 to 69 years .....	874	119	17.7	108	-	107	12	9.9	555
70 to 74 years .....	454	42	9.2	38	-	38	3	( <sup>1</sup> )	412
75 years and over .....	736	25	3.4	25	-	25	-	( <sup>1</sup> )	711

<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	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
<b>TOTAL</b>								
Civilian noninstitutional population .....	167,412	189,115	82,248	83,392	91,157	92,198	14,008	13,525
Civilian labor force .....	123,442	124,070	63,760	64,404	52,689	53,179	6,993	6,487
Percent of population .....	65.9	65.6	77.5	77.2	57.8	57.7	49.9	48.0
Employed .....	116,308	115,151	60,286	59,640	50,129	50,209	5,893	5,302
Agriculture .....	2,693	2,786	2,015	2,063	524	580	154	142
Nonagricultural industries .....	113,615	112,366	58,270	57,577	49,605	49,629	5,740	5,160
Unemployed .....	7,134	8,919	3,474	4,764	2,560	2,970	1,100	1,185
Unemployment rate .....	5.8	7.2	5.4	7.4	4.9	5.6	15.7	18.3
Not in labor force .....	63,970	65,045	18,488	18,988	38,468	39,019	7,015	7,038
<b>White</b>								
Civilian noninstitutional population .....	160,007	161,097	71,169	72,003	77,573	78,278	11,265	10,816
Civilian labor force .....	106,113	106,656	55,554	55,921	44,513	45,100	6,046	5,836
Percent of population .....	66.3	66.2	78.1	77.7	57.4	57.6	53.7	52.1
Employed .....	100,689	99,698	52,851	52,115	42,654	42,647	5,164	4,737
Agriculture .....	2,543	2,631	1,687	1,940	503	554	153	138
Nonagricultural industries .....	98,146	97,067	50,964	50,175	42,151	42,293	5,031	4,599
Unemployed .....	5,425	6,958	2,703	3,806	1,860	2,253	662	899
Unemployment rate .....	5.1	6.5	4.9	6.8	4.2	5.0	14.3	16.0
Not in labor force .....	53,894	54,441	15,615	16,083	33,059	33,178	5,219	5,181
<b>Black</b>								
Civilian noninstitutional population .....	21,168	21,493	8,419	8,614	10,580	10,768	2,168	2,111
Civilian labor force .....	13,292	13,255	6,132	6,312	6,417	6,288	744	656
Percent of population .....	82.7	61.7	72.8	73.3	60.7	58.4	34.0	31.1
Employed .....	11,798	11,605	5,474	5,513	5,792	5,671	532	420
Agriculture .....	83	89	86	80	8	11	-	-
Nonagricultural industries .....	11,705	11,516	5,388	5,434	5,785	5,660	532	422
Unemployed .....	1,494	1,651	658	799	625	617	211	235
Unemployment rate .....	11.2	12.5	10.7	12.7	9.7	8.8	28.4	35.9
Not in labor force .....	7,895	8,238	2,287	2,302	4,163	4,480	1,445	1,456

**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	February 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 .....	15,544	7,178	46.2	8,332	1,104	5,228	846	121	726	11.8
16 to 19 years .....	10,357	4,187	40.4	3,563	275	3,288	623	55	568	14.9
20 to 24 years .....	5,187	2,991	57.7	2,768	829	1,940	223	65	157	7.4
High school .....	7,940	2,955	37.2	2,448	132	2,316	506	40	466	17.1
College .....	7,604	4,223	55.5	3,883	972	2,911	340	81	259	8.0
Full-time students .....	6,510	3,211	49.3	2,944	357	2,587	267	32	236	8.3
Part-time students .....	1,094	1,012	92.5	939	615	324	73	49	24	7.2
Men, 16 to 24 years .....	7,900	3,549	44.9	3,081	571	2,510	468	71	398	13.2
16 to 19 years .....	5,297	2,068	39.0	1,724	155	1,569	344	27	317	18.6
20 to 24 years .....	2,603	1,482	56.9	1,357	416	941	125	44	81	8.4
High school .....	4,154	1,556	37.5	1,269	87	1,182	287	19	269	18.5
College .....	3,748	1,993	53.2	1,812	484	1,328	181	52	129	9.1
Full-time students .....	3,217	1,504	46.7	1,364	180	1,184	140	20	119	9.3
Part-time students .....	529	469	92.4	448	304	144	42	32	10	8.5
Women, 16 to 24 years .....	7,644	3,629	47.5	3,251	533	2,718	378	50	328	10.4
16 to 19 years .....	5,059	2,119	41.9	1,840	120	1,719	280	28	251	13.2
20 to 24 years .....	2,584	1,509	58.4	1,411	413	999	98	21	77	6.5
High school .....	3,786	1,398	36.9	1,179	45	1,135	219	21	198	15.7
College .....	3,857	2,230	57.8	2,071	468	1,583	159	29	130	7.1
Full-time students .....	3,293	1,707	51.9	1,580	177	1,403	128	12	116	7.5
Part-time students .....	565	523	92.6	492	311	180	31	17	14	5.9
<b>White</b>										
Total, 16 to 24 years .....	12,588	6,292	50.0	5,632	962	4,670	660	80	580	10.5
16 to 19 years .....	8,274	3,691	44.8	3,213	243	2,971	477	34	443	12.9
20 to 24 years .....	4,314	2,602	60.3	2,419	719	1,700	183	46	137	7.0
Men .....	6,392	3,119	48.8	2,746	506	2,243	371	45	325	11.9
Women .....	6,196	3,173	51.2	2,884	456	2,428	289	34	255	9.1
High school .....	6,203	2,571	41.4	2,187	109	2,079	384	23	360	14.9
College .....	6,385	3,721	58.3	3,445	853	2,592	276	57	220	7.4
Full-time students .....	5,450	2,848	52.3	2,622	305	2,317	227	26	201	8.0
Part-time students .....	935	873	93.4	624	549	275	50	31	19	5.7
<b>Black</b>										
Total, 16 to 24 years .....	2,156	826	29.0	479	97	382	147	31	116	23.5
16 to 19 years .....	1,577	367	23.3	246	20	226	121	19	102	32.9
20 to 24 years .....	579	259	44.7	233	77	156	28	13	14	10.2
Men .....	1,071	298	27.8	215	37	177	83	20	64	27.9
Women .....	1,085	329	30.3	264	80	205	64	12	52	19.5
High school .....	1,346	299	22.2	194	15	179	105	13	92	35.1
College .....	811	327	40.3	285	82	203	42	19	24	12.9
Full-time students .....	707	233	33.0	207	38	169	26	5	21	11.2
Part-time students .....	103	94	90.8	78	43	34	16	14	3	17.2
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,338	484	36.2	414	111	303	70	8	82	14.4
16 to 19 years .....	975	281	28.9	223	20	203	59	3	56	20.9
20 to 24 years .....	363	203	55.9	192	91	100	11	5	6	5.4
Men .....	678	230	33.9	197	53	143	33	4	29	14.3
Women .....	660	255	38.6	216	58	160	37	5	32	14.5
High school .....	844	214	25.4	159	22	137	56	3	53	25.9
College .....	493	270	54.7	256	69	166	14	5	9	5.3
Full-time students .....	365	156	42.6	147	16	131	9	-	9	5.9
Part-time students .....	129	114	88.4	109	73	35	5	5	-	4.6

See footnotes at end of table.



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	February 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 .....	15,810	12,767	80.9	10,912	9,172	1,740	1,875	1,731	144	14.7
16 to 19 years .....	3,168	2,300	72.6	1,739	1,212	527	561	496	64	24.4
20 to 24 years .....	12,642	10,467	83.0	9,173	7,960	1,213	1,314	1,234	80	12.5
Less than 4 years of high school .....	3,695	2,396	61.5	1,796	1,413	383	599	536	64	25.0
4 years of high school .....	7,995	6,745	84.4	5,778	4,810	968	967	912	54	14.3
1 to 3 years of college .....	2,524	2,315	91.7	2,087	1,790	297	227	207	20	9.8
4 years of college or more .....	1,395	1,333	95.5	1,250	1,159	92	82	77	5	6.2
Men, 16 to 24 years .....	7,611	6,901	90.7	5,729	5,087	662	1,172	1,116	56	17.0
16 to 19 years .....	1,522	1,252	82.3	932	703	229	320	297	23	25.5
20 to 24 years .....	6,090	5,649	92.8	4,797	4,384	433	852	820	33	15.1
Less than 4 years of high school .....	2,055	1,659	80.7	1,221	1,003	217	439	417	22	26.4
4 years of high school .....	3,689	3,640	93.6	3,078	2,749	329	562	545	17	15.4
1 to 3 years of college .....	1,073	1,026	95.7	897	810	88	129	115	13	12.6
4 years of college or more .....	595	576	96.8	534	505	29	42	39	3	7.3
Women, 16 to 24 years .....	8,196	5,866	71.8	5,162	4,105	1,078	704	615	68	12.0
16 to 19 years .....	1,647	1,048	63.6	806	509	298	242	201	41	23.1
20 to 24 years .....	6,552	4,838	73.8	4,376	3,596	780	462	414	48	9.5
Less than 4 years of high school .....	1,840	736	40.0	576	410	166	161	119	42	21.8
4 years of high school .....	4,106	3,105	75.6	2,700	2,081	639	404	367	37	13.0
1 to 3 years of college .....	1,452	1,289	88.8	1,190	981	209	99	92	7	7.7
4 years of college or more .....	800	756	94.5	717	653	63	40	38	2	5.3
<b>White</b>										
Total, 16 to 24 years .....	12,910	10,746	83.2	9,377	7,931	1,446	1,389	1,274	96	12.7
16 to 19 years .....	2,543	1,945	76.5	1,523	1,085	438	422	380	42	21.7
20 to 24 years .....	10,367	8,801	84.9	7,853	6,846	1,007	946	894	54	10.8
Men .....	8,280	5,843	93.0	4,951	4,418	532	692	656	37	15.3
Women .....	6,629	4,903	74.0	4,426	3,513	913	477	416	59	9.7
Less than 4 years of high school .....	3,089	2,025	65.6	1,577	1,252	324	449	408	40	22.2
4 years of high school .....	6,455	5,569	86.3	4,867	4,082	785	702	663	39	12.6
1 to 3 years of college .....	2,120	1,952	92.1	1,797	1,546	251	155	141	14	7.9
4 years of college or more .....	1,246	1,200	96.3	1,136	1,051	85	64	61	2	5.3
<b>Black</b>										
Total, 16 to 24 years .....	2,418	1,859	76.8	1,225	977	246	434	391	43	26.2
16 to 19 years .....	534	288	54.0	174	97	77	114	96	18	39.6
20 to 24 years .....	1,883	1,371	72.8	1,051	880	170	320	293	27	23.3
Men .....	1,106	861	77.9	614	510	105	247	231	18	28.7
Women .....	1,312	798	60.8	611	467	143	187	160	27	23.5
Less than 4 years of high school .....	686	298	43.4	183	110	53	134	112	22	45.1
4 years of high school .....	1,311	985	75.1	760	610	150	225	214	11	22.8
1 to 3 years of college .....	334	296	88.7	237	197	40	59	52	7	20.0
4 years of college or more .....	87	60	69.0	64	60	5	16	13	3	19.5
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,119	1,557	73.5	1,324	1,153	171	233	220	13	14.9
16 to 19 years .....	471	301	63.9	238	191	47	63	57	6	20.9
20 to 24 years .....	1,648	1,256	76.2	1,086	963	123	170	163	7	13.5
Men .....	1,108	1,009	91.1	851	758	92	159	152	7	15.7
Women .....	1,011	548	54.2	474	395	78	74	67	7	13.5
Less than 4 years of high school .....	1,105	715	64.7	594	522	72	121	114	7	16.9
4 years of high school .....	747	596	79.8	503	431	72	93	89	4	15.6
1 to 3 years of college .....	210	198	94.4	182	159	23	15	13	2	7.7
4 years of college or more .....	57	49	( <sup>2</sup> )	45	41	4	4	4	-	( <sup>2</sup> )

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

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

NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Feb. 1990	Feb. 1991	Total		Employed		Unemployed			
			Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Number		Percent of labor force	
							Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
<b>VIETNAM-ERA VETERANS</b>										
Total, 35 years and over .....	7,573	7,728	6,887	7,002	6,559	6,528	329	474	4.8	6.8
35 to 49 years .....	6,514	6,484	6,168	6,103	5,865	5,678	304	425	4.9	7.0
35 to 39 years .....	1,528	1,255	1,443	1,185	1,360	1,058	83	127	5.8	10.7
40 to 44 years .....	3,324	3,176	3,175	2,993	3,023	2,802	151	191	4.8	6.4
45 to 49 years .....	1,662	2,053	1,551	1,928	1,482	1,818	69	107	4.4	5.6
50 years and over .....	1,059	1,244	719	899	694	850	25	49	3.5	5.5
<b>NONVETERANS</b>										
Total, 35 to 49 years .....	16,820	17,894	15,784	16,788	15,178	15,832	606	956	3.8	5.7
35 to 39 years .....	7,707	8,164	7,331	7,740	7,070	7,278	261	462	3.6	6.0
40 to 44 years .....	4,943	5,531	4,612	5,190	4,422	4,932	190	258	4.1	5.0
45 to 49 years .....	4,170	4,199	3,842	3,858	3,687	3,622	155	236	4.0	6.1

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; 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	February 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 .....	94,661	92,085	2,576	20,490	16,975	3,516	7,432	1,487
16 to 19 years .....	1,487	1,386	101	3,815	3,474	341	553	632
16 to 17 years .....	145	136	10	1,839	1,788	50	83	353
18 to 19 years .....	1,342	1,251	91	1,976	1,685	291	470	279
20 years and over .....	93,174	90,698	2,476	16,675	13,501	3,174	6,879	855
20 to 24 years .....	8,789	8,401	387	3,153	2,513	639	1,299	238
25 years and over .....	84,386	82,297	2,089	13,522	10,987	2,535	5,580	617
25 to 54 years .....	73,611	71,844	1,767	9,804	7,646	2,159	5,043	490
55 years and over .....	10,775	10,453	322	3,718	3,342	377	537	127
<b>Men, 16 years and over .....</b>	<b>55,613</b>	<b>53,968</b>	<b>1,645</b>	<b>6,683</b>	<b>5,235</b>	<b>1,448</b>	<b>4,805</b>	<b>622</b>
16 to 19 years .....	858	806	52	1,798	1,637	161	324	340
20 years and over .....	54,755	53,162	1,593	4,885	3,598	1,288	4,482	282
20 to 24 years .....	4,780	4,501	279	1,374	1,078	296	864	113
25 years and over .....	49,975	48,661	1,314	3,511	2,519	992	3,618	169
25 to 54 years .....	43,271	42,152	1,119	1,997	1,162	835	3,245	105
55 years and over .....	6,704	6,509	195	1,514	1,357	157	373	64
<b>Women, 16 years and over .....</b>	<b>39,048</b>	<b>38,117</b>	<b>931</b>	<b>13,807</b>	<b>11,740</b>	<b>2,068</b>	<b>2,627</b>	<b>864</b>
16 to 19 years .....	629	580	49	2,017	1,836	181	229	292
20 years and over .....	38,419	37,536	883	11,790	9,903	1,887	2,397	573
20 to 24 years .....	4,009	3,901	108	1,779	1,435	343	436	124
25 years and over .....	34,410	33,636	775	10,012	8,468	1,543	1,962	448
25 to 54 years .....	30,340	29,692	648	7,808	6,484	1,324	1,798	385
55 years and over .....	4,071	3,944	127	2,204	1,984	220	164	63
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>48,702</b>	<b>47,264</b>	<b>1,438</b>	<b>5,807</b>	<b>4,599</b>	<b>1,208</b>	<b>3,825</b>	<b>503</b>
16 to 19 years .....	775	731	45	1,619	1,474	144	253	269
20 years and over .....	47,927	46,533	1,394	4,188	3,124	1,064	3,572	234
20 to 24 years .....	4,149	3,899	250	1,156	920	236	648	93
25 years and over .....	43,778	42,634	1,144	3,032	2,204	828	2,924	141
25 to 54 years .....	37,785	36,811	975	1,660	962	698	2,586	88
55 years and over .....	5,993	5,823	170	1,372	1,242	130	338	53
<b>Women, 16 years and over .....</b>	<b>32,837</b>	<b>32,074</b>	<b>763</b>	<b>12,353</b>	<b>10,676</b>	<b>1,677</b>	<b>1,941</b>	<b>689</b>
16 to 19 years .....	552	510	43	1,790	1,639	151	161	216
20 years and over .....	32,284	31,565	720	10,563	9,037	1,526	1,780	473
20 to 24 years .....	3,417	3,336	81	1,551	1,265	286	292	98
25 years and over .....	28,868	28,228	639	9,011	7,771	1,240	1,489	375
25 to 54 years .....	25,325	24,797	529	7,083	6,003	1,080	1,355	325
55 years and over .....	3,542	3,432	111	1,928	1,768	160	134	50
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,060</b>	<b>4,890</b>	<b>169</b>	<b>641</b>	<b>454</b>	<b>187</b>	<b>813</b>	<b>107</b>
16 to 19 years .....	56	51	5	131	118	13	61	61
20 years and over .....	5,003	4,839	184	510	336	174	753	46
20 to 24 years .....	491	463	27	151	104	47	190	18
25 years and over .....	4,513	4,376	137	359	233	127	563	28
25 to 54 years .....	3,974	3,862	112	241	136	105	538	16
55 years and over .....	538	514	25	118	96	22	25	11
<b>Women, 16 years and over .....</b>	<b>4,801</b>	<b>4,666</b>	<b>135</b>	<b>1,103</b>	<b>789</b>	<b>314</b>	<b>592</b>	<b>138</b>
16 to 19 years .....	61	56	5	172	148	25	56	57
20 years and over .....	4,740	4,610	130	931	642	289	536	81
20 to 24 years .....	467	443	24	176	123	52	116	22
25 years and over .....	4,273	4,168	106	756	519	237	420	58
25 to 54 years .....	3,854	3,761	93	536	345	191	403	49
55 years and over .....	419	406	13	219	173	46	17	9

<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	February 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> .....	98,783	65.9	91,754	7,029	7.1	51,003	21,109	8,714	2,605	18,575
Husbands .....	39,867	77.7	37,909	1,958	4.9	11,473	192	207	998	10,077
With employed wife .....	26,408	91.9	25,234	1,174	4.4	2,330	92	91	415	1,731
With unemployed wife .....	1,218	90.4	1,063	155	12.7	130	4	11	26	89
With wife not in labor force .....	12,242	57.6	11,612	629	5.1	9,014	96	104	557	8,257
Wives .....	30,085	58.6	28,738	1,348	4.5	21,255	16,205	479	434	4,137
With employed husband .....	26,297	69.4	25,234	1,063	4.0	11,612	10,027	375	146	1,065
With unemployed husband .....	1,329	67.9	1,174	155	11.7	629	548	26	18	38
With husband not in labor force .....	2,460	21.4	2,330	130	5.3	9,014	5,630	78	271	3,034
Relatives in married-couple families .....	12,154	59.9	10,554	1,599	13.2	8,139	767	5,604	356	1,412
16 to 19 years .....	4,091	47.4	3,467	624	15.3	4,537	98	4,196	11	232
20 to 24 years .....	4,465	72.6	3,941	525	11.7	1,681	171	1,259	44	206
25 years and over .....	3,598	65.2	3,146	450	12.5	1,921	498	149	301	974
Women who maintain families .....	7,055	61.5	6,403	652	9.2	4,411	2,799	263	267	1,062
Relatives in families maintained by women .....	5,538	57.9	4,521	1,016	18.4	4,022	807	1,792	347	1,077
16 to 19 years .....	1,230	42.5	895	336	27.3	1,662	122	1,384	10	146
20 to 24 years .....	1,578	71.0	1,264	313	19.9	644	155	325	23	141
25 years and over .....	2,729	61.4	2,362	367	13.4	1,716	530	83	314	790
Men who maintain families .....	2,287	78.6	2,075	212	9.3	623	29	45	86	462
Relatives in families maintained by men .....	1,796	62.5	1,553	244	13.6	1,080	310	324	97	349
16 to 19 years .....	298	51.9	232	66	22.1	276	5	223	2	46
20 to 24 years .....	459	75.0	393	65	14.2	153	37	79	10	27
25 years and over .....	1,041	61.5	928	113	10.9	651	268	22	85	276

<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	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
Total, 16 years and over .....	4,087	5,427	6.1	8.0	3,047	3,491	5.4	6.2
Married, spouse present .....	1,573	2,161	3.7	5.1	1,232	1,432	4.0	4.6
Widowed, divorced, or separated .....	589	793	8.4	10.8	674	756	6.0	6.7
Single (never married) .....	1,925	2,474	10.7	13.6	1,140	1,303	8.2	9.3
White, 16 years and over .....	3,178	4,328	5.4	7.4	2,247	2,630	4.7	5.5
Married, spouse present .....	1,318	1,848	3.5	4.9	1,020	1,252	3.7	4.5
Widowed, divorced, or separated .....	447	630	7.6	10.4	498	565	5.6	6.2
Single (never married) .....	1,413	1,850	9.4	12.2	729	812	6.5	7.3
Black, 16 years and over .....	778	921	11.9	13.9	716	730	10.6	11.0
Married, spouse present .....	198	233	8.2	7.3	165	129	6.8	5.5
Widowed, divorced, or separated .....	125	145	13.3	13.9	162	166	8.1	8.8
Single (never married) .....	455	542	19.0	22.7	390	435	16.4	18.2
Total, 25 years and over .....	2,745	3,787	4.8	6.6	2,049	2,410	4.4	5.1
Married, spouse present .....	1,443	2,023	3.5	5.0	1,048	1,243	3.6	4.3
Widowed, divorced, or separated .....	573	764	8.4	10.8	613	696	5.6	6.4
Single (never married) .....	729	1,001	8.0	10.5	388	471	5.9	6.9
White, 25 years and over .....	2,144	3,065	4.3	6.1	1,510	1,864	3.9	4.7
Married, spouse present .....	1,206	1,727	3.3	4.8	878	1,085	3.4	4.2
Widowed, divorced, or separated .....	435	607	7.6	10.4	449	529	5.2	6.0
Single (never married) .....	503	732	6.8	9.4	183	250	3.7	4.9
Black, 25 years and over .....	509	590	9.5	10.8	475	479	8.6	8.7
Married, spouse present .....	160	222	5.9	7.2	125	115	5.6	5.1
Widowed, divorced, or separated .....	121	141	13.1	13.9	153	148	7.9	8.1
Single (never married) .....	208	227	15.3	16.6	196	216	14.2	15.1

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
Total, 16 years and over .....	7,134	8,919	5.8	7.2	6.1	6.0	5.4	6.2
Managerial and professional specialty .....	598	759	1.9	2.4	1.8	2.5	1.9	2.2
Executive, administrative, and managerial .....	326	441	2.2	2.9	2.2	2.8	2.1	3.0
Professional specialty .....	262	317	1.8	1.9	1.5	2.3	1.8	1.6
Technical, sales, and administrative support .....	1,642	1,961	4.3	5.2	3.6	5.0	4.6	5.3
Technicians and related support .....	130	135	3.2	3.4	3.6	4.1	2.9	2.7
Sales occupations .....	759	855	5.1	5.8	3.4	5.0	6.8	6.7
Administrative support, including clerical .....	753	971	3.9	5.0	4.0	5.5	3.8	4.9
Service occupations .....	1,120	1,275	6.8	7.5	7.2	7.8	6.6	7.4
Private household .....	47	42	5.8	5.3	( <sup>1</sup> )	( <sup>1</sup> )	5.6	5.1
Protective service .....	60	96	2.9	4.5	2.8	4.1	4.0	6.7
Service, except private household and protective .....	1,013	1,138	7.5	8.1	8.8	9.0	6.8	7.6
Precision production, craft, and repair .....	985	1,389	6.8	9.6	6.9	9.5	6.5	10.4
Mechanics and repairers .....	166	256	3.8	5.6	3.7	5.5	3.0	7.6
Construction trades .....	578	867	10.3	15.8	10.4	15.5	9.2	21.0
Other precision production, craft, and repair .....	241	266	5.7	6.2	5.3	5.1	6.8	9.9
Operators, fabricators, and laborers .....	1,829	2,484	9.5	13.0	9.2	13.3	10.2	12.3
Machine operators, assemblers, and inspectors .....	741	1,100	8.5	12.9	7.2	12.6	10.5	13.3
Transportation and material moving occupations .....	376	480	7.4	9.1	7.9	9.5	2.8	5.0
Handlers, equipment cleaners, helpers, and laborers .....	712	904	12.9	17.2	12.9	18.3	12.9	11.9
Construction laborers .....	181	269	19.5	33.0	19.4	33.5	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	531	615	11.5	14.0	11.3	14.6	12.4	11.8
Farming, forestry, and fishing .....	248	333	8.4	10.5	8.2	11.0	9.3	7.5
No previous work experience .....	687	685	-	-	-	-	-	-
16 to 19 years .....	414	403	-	-	-	-	-	-
20 to 24 years .....	134	155	-	-	-	-	-	-
25 years and over .....	139	127	-	-	-	-	-	-

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

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
Total, 16 years and over .....	7,134	8,919	5.8	7.2	6.1	8.0	5.4	6.2
Nonagricultural private wage and salary workers .....	5,649	7,193	6.1	7.8	6.4	8.7	5.7	6.6
Mining .....	40	56	5.6	7.1	6.2	6.3	2.4	10.8
Construction .....	838	1,306	13.1	21.4	13.5	22.3	9.4	12.6
Manufacturing .....	1,396	1,774	6.4	8.2	5.7	7.5	7.8	9.6
Durable goods .....	783	1,128	6.0	8.9	6.0	8.7	6.2	9.3
Lumber and wood products .....	75	102	9.7	14.6	10.3	14.2	6.2	18.0
Furniture and fixtures .....	34	52	5.2	8.3	4.1	6.5	7.9	7.8
Stone, clay, and glass products .....	44	62	7.3	10.6	7.6	10.9	5.9	9.0
Primary metal industries .....	52	78	5.6	9.0	5.9	8.4	4.2	13.2
Fabricated metal products .....	97	113	7.3	9.0	7.6	9.4	6.1	7.9
Machinery, except electrical .....	127	167	4.8	6.5	4.7	6.5	5.1	6.2
Electrical machinery, equipment, and supplies .....	133	155	6.1	7.1	4.7	4.7	8.1	10.3
Transportation equipment .....	153	268	5.9	11.1	6.0	11.0	5.3	11.6
Automobiles .....	98	213	8.1	17.2	7.7	17.3	9.4	17.0
Other transportation equipment .....	55	75	4.0	5.6	4.5	5.4	2.0	6.1
Professional and photographic equipment .....	24	36	3.6	4.8	3.8	5.5	3.2	4.0
Other durable goods industries .....	44	75	7.9	14.2	8.5	14.3	8.0	13.4
Nondurable goods .....	613	646	6.8	7.2	5.1	5.4	9.3	9.9
Food and kindred products .....	185	168	9.1	8.7	6.5	6.0	14.4	14.6
Textile mill products .....	46	67	6.6	8.9	3.5	7.4	10.3	10.6
Apparel and other textile products .....	125	109	11.4	9.6	11.0	6.6	11.5	10.5
Paper and allied products .....	30	26	3.9	3.6	4.2	3.6	3.0	3.8
Printing and publishing .....	95	105	5.1	5.7	4.8	4.4	5.5	7.7
Chemicals and allied products .....	46	60	3.3	4.3	2.3	5.0	5.4	2.9
Rubber and miscellaneous plastics products .....	54	80	6.9	10.4	6.2	6.4	8.0	17.3
Other nondurable goods industries .....	31	32	6.8	7.9	4.6	7.3	15.9	9.5
Transportation and public utilities .....	273	383	4.3	5.9	4.6	6.4	3.5	4.7
Transportation .....	221	296	5.8	7.8	6.2	8.5	4.5	5.8
Communications and other public utilities .....	52	87	2.0	3.3	1.9	3.0	2.3	3.7
Wholesale and retail trade .....	1,578	1,910	6.6	8.1	6.0	8.1	7.4	8.1
Wholesale trade .....	167	226	3.7	5.1	3.8	5.1	3.6	4.9
Retail trade .....	1,412	1,683	7.3	8.8	6.8	9.1	7.9	8.5
Finance, insurance, and real estate .....	236	270	3.2	3.7	3.3	3.6	3.2	3.8
Service industries .....	1,267	1,495	4.9	5.6	5.7	6.3	4.4	5.1
Professional services .....	447	512	3.0	3.3	3.1	3.6	2.9	3.2
Other service industries .....	841	982	7.6	6.5	7.8	8.4	7.3	8.6
Agricultural wage and salary workers .....	198	246	12.7	15.2	12.9	16.5	11.9	10.8
Government, self-employed, and unpaid family workers .....	600	796	2.1	2.7	2.2	3.1	2.0	2.3
No previous work experience .....	687	685	-	-	-	-	-	-

**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	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	7,134	8,919	3,474	4,764	2,560	2,970	1,100	1,185	5,425	6,958	1,494	1,651
Job losers .....	3,646	5,319	2,314	3,529	1,083	1,415	249	375	2,657	4,324	697	838
On layoff .....	1,282	1,988	875	1,400	345	485	62	103	1,107	1,694	147	246
Other job losers .....	2,365	3,331	1,440	2,129	738	930	187	272	1,751	2,630	551	592
Job leavers .....	1,030	1,004	432	414	419	420	179	170	818	798	170	160
Reentrants .....	1,837	2,014	633	716	903	998	301	300	1,345	1,452	432	491
New entrants .....	619	581	94	104	155	137	370	340	403	383	195	161
<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 .....	51.1	59.6	66.6	74.1	42.3	47.6	22.7	31.6	52.7	62.2	46.7	50.8
On layoff .....	18.0	22.3	25.2	29.4	13.5	16.3	5.7	8.7	20.4	24.3	9.8	14.9
Other job losers .....	33.2	37.3	41.4	44.7	28.8	31.3	17.0	22.9	32.3	37.8	36.8	35.9
Job leavers .....	14.4	11.3	12.4	8.7	16.4	14.1	16.3	14.4	15.1	11.5	11.4	9.7
Reentrants .....	25.8	22.6	18.2	15.0	35.3	33.6	27.4	25.3	24.8	20.9	28.9	29.8
New entrants .....	8.7	6.5	2.7	2.2	6.1	4.6	33.7	28.7	7.4	5.5	13.1	9.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	3.0	4.3	3.6	5.5	2.1	2.7	3.6	5.8	2.7	4.1	5.2	6.3
Job leavers .....	.8	.8	.7	.6	.8	.8	2.6	2.6	.8	.7	1.3	1.2
Reentrants .....	1.5	1.6	1.0	1.1	1.7	1.9	4.3	4.6	1.3	1.4	3.3	3.7
New entrants .....	.5	.5	.1	.2	.3	.3	5.3	5.2	.4	.4	1.5	1.2



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

(Percent distribution)

Reason, sex, and age	February 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 .....	8,919	100.0	37.9	37.8	24.3	13.5	10.8
Job losers .....	5,319	100.0	32.8	40.8	26.4	14.6	11.8
On layoff .....	1,988	100.0	43.8	40.2	16.1	11.0	5.1
Other job losers .....	3,331	100.0	26.2	41.2	32.6	16.7	15.9
Job leavers .....	1,004	100.0	43.9	34.3	21.8	14.2	7.6
Reentrants .....	2,014	100.0	44.3	34.1	21.6	11.8	9.8
New entrants .....	581	100.0	51.6	29.3	19.1	9.2	10.0
Men, 20 years and over .....	4,764	100.0	30.7	40.9	28.4	15.4	13.0
Job losers .....	3,529	100.0	30.5	41.6	27.9	15.1	12.8
On layoff .....	1,400	100.0	39.8	42.8	17.4	12.2	5.3
Other job losers .....	2,129	100.0	24.3	40.8	34.8	17.1	17.7
Job leavers .....	414	100.0	34.9	38.3	26.9	16.4	10.5
Reentrants .....	716	100.0	30.6	39.9	29.5	15.8	13.7
New entrants .....	104	100.0	24.2	33.1	42.7	18.9	23.8
Women, 20 years and over .....	2,970	100.0	43.7	34.4	22.0	12.0	10.0
Job losers .....	1,415	100.0	35.3	38.7	26.0	14.3	11.7
On layoff .....	485	100.0	53.5	31.9	14.5	9.0	5.5
Other job losers .....	930	100.0	25.7	42.2	32.0	17.1	14.9
Job leavers .....	420	100.0	49.1	29.6	21.2	13.8	7.4
Reentrants .....	998	100.0	51.1	30.8	18.0	8.9	9.1
New entrants .....	137	100.0	59.4	29.9	10.7	3.6	7.1
Both sexes, 16 to 19 years .....	1,185	100.0	51.9	34.2	13.8	9.9	4.0
Job losers .....	375	100.0	45.0	41.7	13.3	9.9	3.5
On layoff .....	103	100.0	51.8	43.3	4.9	4.7	.2
Other job losers .....	272	100.0	42.4	41.1	16.5	11.8	4.7
Job leavers .....	170	100.0	53.0	35.9	11.1	10.0	1.2
Reentrants .....	300	100.0	54.3	31.3	14.4	11.5	2.9
New entrants .....	340	100.0	56.9	27.8	15.3	6.4	6.9

**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	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
Total, 16 years and over .....	7,134	8,919	100.0	100.0	5,654	7,432	100.0	100.0
Less than 5 weeks .....	3,067	3,376	43.0	37.9	2,181	2,572	38.6	34.6
5 to 14 weeks .....	2,555	3,373	35.8	37.8	2,127	2,889	37.6	38.9
5 to 10 weeks .....	1,899	2,441	26.6	27.4	1,542	2,047	27.3	27.5
11 to 14 weeks .....	657	932	9.2	10.4	585	843	10.4	11.3
15 weeks and over .....	1,511	2,170	21.2	24.3	1,346	1,971	23.8	26.5
15 to 26 weeks .....	845	1,207	11.8	13.5	747	1,072	13.2	14.4
27 weeks and over .....	666	962	9.3	10.8	599	899	10.6	12.1
27 to 51 weeks .....	319	463	4.5	5.2	277	436	4.9	5.9
52 weeks and over .....	347	499	4.9	5.6	321	461	5.7	6.2
Average (mean) duration, in weeks .....	11.7	12.8	-	-	12.8	13.7	-	-
Median duration, in weeks .....	5.9	7.0	-	-	6.9	7.7	-	-

**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	
								Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
	February 1991							Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
Total, 16 years and over .....	8,919	3,376	3,373	1,207	962	12.8	7.0	43.0	37.9	21.2	24.3
16 to 19 years .....	1,185	615	406	117	47	8.0	4.3	59.4	51.9	10.0	13.8
20 to 24 years .....	1,537	628	616	185	106	10.4	5.8	50.2	40.9	14.8	18.9
25 to 34 years .....	2,673	991	1,079	365	237	12.0	7.2	41.0	37.1	21.5	22.5
35 to 44 years .....	1,814	605	686	256	268	15.1	8.3	34.7	33.3	26.3	28.9
45 to 54 years .....	1,046	339	359	171	177	16.7	8.7	33.4	32.4	30.1	33.3
55 to 64 years .....	531	146	187	93	105	18.5	10.0	35.1	27.5	32.7	37.2
65 years and over .....	133	51	38	21	23	17.4	8.0	32.8	38.5	29.5	33.0
Men, 16 years and over .....	5,427	1,781	2,183	813	651	14.1	8.0	37.4	32.8	23.5	27.0
16 to 19 years .....	663	316	237	76	33	8.6	4.8	56.5	47.7	9.3	16.6
20 to 24 years .....	977	328	433	136	79	11.6	6.8	42.2	33.6	15.8	22.0
25 to 34 years .....	1,599	496	707	252	144	12.8	8.3	36.3	31.0	24.6	24.7
35 to 44 years .....	1,083	326	426	163	168	16.0	9.0	27.2	30.1	28.9	30.6
45 to 54 years .....	668	197	237	104	130	18.9	9.5	28.1	29.5	34.2	34.9
55 to 64 years .....	359	85	126	69	60	20.8	11.8	30.2	23.7	35.7	41.4
65 years and over .....	76	32	17	12	16	21.6	8.3	30.2	40.8	37.9	38.2
Women, 16 years and over .....	3,491	1,596	1,190	395	311	10.7	5.4	50.5	45.7	18.0	20.2
16 to 19 years .....	521	299	169	39	14	6.9	3.9	63.0	57.3	10.9	10.3
20 to 24 years .....	560	300	185	49	27	8.3	4.2	61.7	53.8	13.4	13.4
25 to 34 years .....	1,073	495	372	114	93	10.7	5.2	47.2	46.1	17.4	19.2
35 to 44 years .....	731	279	260	93	100	13.7	7.0	44.0	38.2	23.0	26.3
45 to 54 years .....	379	142	122	67	47	12.8	7.2	40.8	37.8	24.4	30.3
55 to 64 years .....	171	61	62	24	25	13.6	8.1	43.8	35.6	27.5	28.4
65 years and over .....	55	20	21	9	5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	6,958	2,605	2,696	932	724	12.5	7.0	44.1	37.4	20.7	23.8
Men .....	4,328	1,431	1,779	815	503	13.6	7.9	38.5	33.1	23.1	25.8
Women .....	2,630	1,175	917	317	221	10.7	5.5	51.9	44.7	17.3	20.5
Black, 16 years and over .....	1,651	659	545	234	213	14.2	6.6	40.2	39.9	22.8	27.1
Men .....	921	294	330	171	126	18.5	8.2	33.5	32.0	25.6	32.2
Women .....	730	365	215	63	87	11.4	4.5	47.4	49.9	19.7	20.5
Men, 16 years and over:											
Married, spouse present .....	2,161	649	905	337	270	14.7	8.7	31.8	30.0	26.4	28.1
Widowed, divorced, or separated .....	793	245	304	111	132	16.6	8.6	37.2	30.9	29.2	30.8
Single (never married) .....	2,474	886	974	366	248	12.9	7.1	42.2	35.8	19.5	24.8
Women, 16 years and over:											
Married, spouse present .....	1,432	576	551	178	129	11.1	6.3	49.8	40.2	16.5	21.4
Widowed, divorced, or separated .....	756	286	257	109	103	13.3	7.1	48.1	37.8	22.1	28.0
Single (never married) .....	1,303	734	382	109	79	8.9	4.0	52.8	56.3	17.3	14.4

<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	
	February 1991							Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
<b>OCCUPATION</b>											
Managerial and professional specialty .....	759	253	284	118	104	14.0	8.3	38.6	33.3	26.0	29.2
Technical, sales, and administrative support .....	1,961	812	683	255	212	11.8	6.1	46.2	41.4	19.9	23.8
Service occupations .....	1,275	552	437	179	106	11.6	6.1	49.7	43.3	20.2	22.4
Precision production, craft, and repair .....	1,389	468	584	196	142	12.9	7.7	34.8	33.7	21.6	24.3
Operators, fabricators, and laborers .....	2,484	811	1,032	337	304	14.2	7.7	37.5	32.6	24.7	25.8
Farming, forestry, and fishing .....	333	92	160	57	25	13.9	9.4	40.3	27.6	20.2	24.3
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	246	70	114	47	14	12.6	8.7	42.4	28.5	19.7	24.8
Construction .....	1,329	376	664	178	111	12.3	8.3	32.9	28.3	18.6	21.7
Manufacturing .....	1,791	628	636	278	248	14.7	7.8	37.7	35.1	26.4	29.4
Durable goods .....	1,137	405	402	175	156	15.0	7.8	37.8	35.6	25.8	29.0
Nondurable goods .....	654	223	235	103	93	14.2	7.7	37.7	34.1	27.1	30.0
Transportation and public utilities .....	433	145	165	63	60	15.4	8.1	28.6	33.5	30.5	28.2
Wholesale and retail trade .....	1,920	815	691	231	184	11.5	5.9	47.3	42.4	18.6	21.6
Finance and service industries .....	2,012	800	725	273	216	12.5	6.7	46.9	39.8	21.9	24.3
Public administration .....	165	37	74	28	26	15.1	9.6	33.1	22.4	26.1	32.7
No previous work experience .....	685	376	191	55	63	10.2	4.1	54.9	54.9	12.5	17.2

<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	February 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		
<b>Total, 16 years and over</b> .....	8,919	6,858	24.7	8.6	70.8	42.1	20.7	5.0	1.72
16 to 19 years .....	1,185	1,070	12.0	3.7	78.3	31.7	14.4	3.0	1.43
20 to 24 years .....	1,537	1,301	28.3	9.2	75.2	42.8	20.7	4.6	1.81
25 to 34 years .....	2,673	1,976	27.2	8.8	67.8	44.2	23.0	5.0	1.76
35 to 44 years .....	1,814	1,289	26.7	9.4	67.9	47.8	22.2	5.9	1.80
45 to 54 years .....	1,046	748	25.9	11.8	68.2	43.1	21.7	5.2	1.76
55 to 64 years .....	531	382	27.3	11.4	67.6	41.7	21.6	7.6	1.77
65 years and over .....	133	91	17.5	8.5	63.9	22.0	14.0	9.1	1.35
<b>Men, 16 years and over</b> .....	5,427	3,917	27.0	8.9	74.3	38.7	21.8	5.6	1.76
16 to 19 years .....	663	592	14.2	3.2	64.2	29.7	15.8	2.6	1.50
20 to 24 years .....	977	799	32.1	9.0	78.5	39.4	22.0	4.7	1.86
25 to 34 years .....	1,599	1,094	27.0	10.2	70.9	40.4	24.5	5.9	1.79
35 to 44 years .....	1,083	674	29.7	8.1	70.9	47.2	24.1	6.6	1.87
45 to 54 years .....	668	450	30.4	13.1	66.8	39.1	20.5	7.2	1.77
55 to 64 years .....	359	254	29.5	10.6	73.1	32.1	22.7	8.9	1.77
65 years and over .....	78	52	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Women, 16 years and over</b> .....	3,491	2,942	21.6	8.3	66.3	46.6	19.3	4.2	1.86
16 to 19 years .....	521	478	9.2	4.2	71.0	34.2	12.5	3.5	1.35
20 to 24 years .....	560	502	22.4	9.5	69.9	48.3	18.7	4.4	1.73
25 to 34 years .....	1,073	882	27.5	7.1	63.9	49.0	21.1	3.9	1.73
35 to 44 years .....	731	815	23.5	10.7	64.6	48.3	20.2	5.1	1.72
45 to 54 years .....	379	298	19.1	9.3	70.7	49.0	23.6	2.1	1.74
55 to 64 years .....	171	128	22.8	12.8	56.6	80.8	19.5	4.9	1.78
65 years and over .....	55	39	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>White, 16 years and over</b> .....	6,958	5,199	24.5	8.8	70.0	44.2	20.9	5.6	1.74
Men .....	4,326	3,009	25.8	8.6	74.3	40.5	21.8	6.2	1.77
Women .....	2,630	2,189	22.8	9.1	64.1	49.4	19.8	4.7	1.70
<b>Black, 16 years and over</b> .....	1,651	1,404	26.6	7.6	73.9	34.3	21.0	3.1	1.67
Men .....	921	768	32.9	9.3	74.3	31.3	22.4	3.2	1.73
Women .....	730	636	19.1	5.7	73.5	38.0	19.2	2.9	1.58

<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	February 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		
<b>Total, 16 years and over</b> .....	8,919	6,858	24.7	8.6	70.8	42.1	20.7	5.0	1.72
Job losers <sup>1</sup> .....	5,319	3,306	31.4	10.1	71.7	43.4	24.0	5.8	1.87
Job leavers .....	1,004	992	22.3	9.9	69.2	51.1	18.4	2.1	1.73
Reentrants .....	2,014	1,979	18.6	6.9	68.9	38.3	16.2	5.1	1.56
New entrants .....	581	581	11.3	3.9	75.2	32.2	14.9	4.9	1.42
<b>Men, 16 years and over</b> .....	5,427	3,917	27.0	8.9	74.3	36.7	21.8	5.6	1.76
Job losers <sup>1</sup> .....	3,773	2,292	31.4	9.5	73.2	40.1	25.2	5.8	1.85
Job leavers .....	502	490	25.7	9.9	72.7	49.7	19.2	2.4	1.80
Reentrants .....	882	865	20.6	7.9	74.8	31.2	16.7	7.2	1.56
New entrants .....	271	270	12.4	5.1	64.6	31.8	15.0	4.5	1.54
<b>Women, 16 years and over</b> .....	3,491	2,942	21.6	8.3	66.3	46.6	19.3	4.2	1.86
Job losers <sup>1</sup> .....	1,546	1,015	31.5	11.5	68.5	51.0	21.4	5.8	1.90
Job leavers .....	503	502	19.0	9.9	65.7	52.5	17.7	1.7	1.66
Reentrants .....	1,132	1,115	17.0	6.2	64.3	43.8	19.3	3.5	1.54
New entrants .....	310	310	10.3	2.9	67.1	32.6	14.7	5.2	1.33

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

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

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

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

(In thousands)

Industry and age	Total		Men		Women	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
All industries .....	118,308	115,151	63,293	62,296	53,016	52,855
16 to 19 years .....	5,893	5,302	3,007	2,656	2,887	2,646
18 to 17 years .....	2,125	1,984	1,088	999	1,037	985
18 to 19 years .....	3,768	3,318	1,919	1,858	1,850	1,661
20 to 24 years .....	12,314	11,941	6,377	6,154	5,937	5,787
25 to 54 years .....	83,437	83,415	45,547	45,268	37,889	38,147
25 to 34 years .....	33,782	32,847	18,589	18,008	15,193	14,841
35 to 44 years .....	30,210	30,813	16,326	16,587	13,883	14,226
45 to 54 years .....	19,445	19,756	10,632	10,675	8,813	9,081
55 to 64 years .....	11,327	11,161	6,408	6,365	4,920	4,797
55 to 59 years .....	6,757	6,718	3,808	3,779	2,950	2,938
60 to 64 years .....	4,570	4,444	2,600	2,585	1,970	1,858
65 years and over .....	3,336	3,331	1,954	1,853	1,383	1,478
Agriculture .....	2,693	2,786	2,143	2,188	550	598
16 to 19 years .....	154	142	128	124	26	18
18 to 17 years .....	71	58	58	51	13	8
18 to 19 years .....	82	84	70	74	13	10
20 to 24 years .....	237	254	184	208	53	47
25 to 54 years .....	1,714	1,774	1,352	1,364	362	410
25 to 34 years .....	754	727	601	572	153	155
35 to 44 years .....	584	621	462	465	122	156
45 to 54 years .....	376	426	289	327	87	99
55 to 64 years .....	347	397	263	305	84	92
55 to 59 years .....	172	188	124	139	48	49
60 to 64 years .....	175	209	139	166	36	43
65 years and over .....	241	218	216	187	25	32
Nonagricultural industries .....	113,615	112,366	61,150	60,109	52,466	52,257
16 to 19 years .....	5,740	5,180	2,879	2,532	2,861	2,828
18 to 17 years .....	2,054	1,925	1,030	946	1,024	978
18 to 19 years .....	3,686	3,234	1,849	1,584	1,837	1,650
20 to 24 years .....	12,077	11,687	6,193	5,946	5,884	5,741
25 to 54 years .....	81,723	81,841	44,196	43,904	37,527	37,738
25 to 34 years .....	33,028	32,120	17,988	17,434	15,040	14,686
35 to 44 years .....	29,626	30,191	15,864	16,122	13,761	14,070
45 to 54 years .....	19,069	19,330	10,343	10,348	8,726	8,982
55 to 64 years .....	10,980	10,764	6,144	6,060	4,836	4,704
55 to 59 years .....	6,586	6,530	3,683	3,640	2,902	2,889
60 to 64 years .....	4,395	4,235	2,461	2,420	1,934	1,815
65 years and over .....	3,095	3,113	1,737	1,667	1,358	1,446

**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	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
<b>Total</b> .....	<b>116,308</b>	<b>115,151</b>	<b>63,293</b>	<b>62,296</b>	<b>60,286</b>	<b>59,640</b>	<b>53,016</b>	<b>52,855</b>	<b>50,129</b>	<b>50,209</b>
<b>Managerial and professional specialty</b> .....	<b>30,612</b>	<b>31,127</b>	<b>16,504</b>	<b>16,634</b>	<b>16,421</b>	<b>16,537</b>	<b>14,108</b>	<b>14,493</b>	<b>13,951</b>	<b>14,385</b>
Executive, administrative, and managerial .....	14,745	15,006	8,858	8,935	8,822	8,987	5,887	6,072	5,841	6,049
Officials and administrators, public administration .....	658	621	392	328	392	328	265	293	263	293
Other executive, administrative, and managerial .....	10,124	10,333	6,498	6,663	6,471	6,619	3,625	3,670	3,592	3,653
Management-related occupations .....	3,963	4,052	1,967	1,944	1,959	1,940	1,997	2,108	1,985	2,102
<b>Professional specialty</b> .....	<b>15,867</b>	<b>16,121</b>	<b>7,646</b>	<b>7,700</b>	<b>7,599</b>	<b>7,650</b>	<b>8,221</b>	<b>8,421</b>	<b>8,111</b>	<b>8,336</b>
Engineers .....	1,854	1,748	1,702	1,589	1,702	1,589	152	159	152	159
Mathematical and computer scientists .....	782	951	513	564	513	583	269	367	267	367
Natural scientists .....	430	454	302	329	302	329	128	124	128	124
Health diagnosing occupations .....	848	821	679	673	677	671	169	148	166	147
Health assessment and treating occupations .....	2,315	2,325	310	321	309	321	2,005	2,004	1,996	1,999
Teachers, college and university .....	820	811	532	485	526	483	289	326	285	315
Teachers, except college and university .....	4,206	4,242	1,106	1,123	1,097	1,118	3,100	3,119	3,052	3,088
Lawyers and judges .....	704	728	559	581	559	581	145	147	143	144
Other professional specialty occupations .....	3,910	4,041	1,944	2,015	1,915	1,975	1,966	2,026	1,922	1,993
<b>Technical, sales, and administrative support</b> .....	<b>36,777</b>	<b>35,847</b>	<b>12,932</b>	<b>12,595</b>	<b>12,263</b>	<b>11,993</b>	<b>23,845</b>	<b>23,253</b>	<b>22,209</b>	<b>21,766</b>
Technicians and related support .....	3,887	3,804	1,966	1,966	1,949	1,946	1,901	1,838	1,875	1,815
Health technologists and technicians .....	1,315	1,259	213	202	213	199	1,102	1,057	1,087	1,045
Engineering and science technicians .....	1,233	1,258	985	980	973	966	248	278	238	271
Technicians, except health, engineering, and science .....	1,339	1,287	788	784	763	781	551	503	550	498
Sales occupations .....	14,135	13,762	7,238	7,094	8,833	6,722	6,897	6,668	5,913	5,842
Supervisors and proprietors .....	3,872	3,747	2,540	2,458	2,506	2,443	1,332	1,288	1,305	1,273
Sales representatives, finance and business services .....	2,334	2,365	1,324	1,315	1,308	1,300	1,011	1,050	990	1,024
Sales representatives, commodities, except retail .....	1,606	1,598	1,277	1,224	1,272	1,217	329	374	315	369
Sales workers, retail and personal services .....	6,267	5,973	2,081	2,065	1,730	1,734	4,186	3,907	3,266	3,130
Sales-related occupations .....	55	80	16	31	16	29	39	49	37	47
Administrative support, including clerical .....	18,754	18,281	3,708	3,535	3,481	3,325	15,047	14,747	14,421	14,109
Supervisors .....	716	739	273	280	272	278	443	459	443	459
Computer equipment operators .....	818	812	264	245	256	228	554	567	535	532
Secretaries, stenographers, and typists .....	4,863	4,362	65	82	64	73	4,798	4,280	4,625	4,145
Financial records processing .....	2,494	2,379	219	197	217	192	2,275	2,181	2,228	2,152
Mail and message distributing .....	988	922	647	566	622	548	341	356	325	330
Other administrative support, including clerical .....	8,875	9,067	2,240	2,164	2,050	2,005	6,635	6,904	6,265	6,491
<b>Service occupations</b> .....	<b>15,279</b>	<b>15,663</b>	<b>6,178</b>	<b>6,391</b>	<b>5,351</b>	<b>5,553</b>	<b>9,101</b>	<b>9,272</b>	<b>8,248</b>	<b>8,428</b>
Private household .....	770	741	21	31	19	27	748	709	659	611
Protective service .....	1,992	2,034	1,723	1,740	1,689	1,700	270	294	248	283
Service, except private household and protective .....	12,517	12,888	4,433	4,619	3,643	3,826	8,083	8,269	7,342	7,534
Food service .....	5,147	5,132	2,076	2,090	1,484	1,489	3,071	3,043	2,572	2,551
Health service .....	1,983	2,090	191	220	179	198	1,792	1,870	1,734	1,805
Cleaning and building service .....	3,076	3,143	1,718	1,825	1,577	1,705	1,358	1,319	1,298	1,261
Personal service .....	2,312	2,523	449	485	403	434	1,862	2,038	1,739	1,916
<b>Precision production, craft, and repair</b> .....	<b>13,431</b>	<b>13,053</b>	<b>12,272</b>	<b>11,920</b>	<b>11,993</b>	<b>11,709</b>	<b>1,159</b>	<b>1,133</b>	<b>1,125</b>	<b>1,108</b>
Mechanics and repairers .....	4,408	4,337	4,231	4,168	4,148	4,097	177	169	173	166
Construction trades .....	5,005	4,681	4,901	4,606	4,771	4,503	105	75	105	72
Other precision production, craft, and repair .....	4,018	4,034	3,140	3,145	3,073	3,108	878	889	847	870
<b>Operators, fabricators, and laborers</b> .....	<b>17,506</b>	<b>16,609</b>	<b>13,130</b>	<b>12,397</b>	<b>12,119</b>	<b>11,631</b>	<b>4,378</b>	<b>4,213</b>	<b>4,194</b>	<b>4,049</b>
Machine operators, assemblers, and inspectors .....	7,978	7,450	4,901	4,447	4,712	4,334	3,077	3,003	3,003	2,923
Manufacturing industries .....	6,599	6,119	4,011	3,624	3,872	3,542	2,588	2,495	2,535	2,433
Durable goods .....	3,649	3,326	2,554	2,301	2,482	2,257	1,094	1,025	1,080	1,006
Nondurable goods .....	2,950	2,793	1,457	1,322	1,390	1,285	1,494	1,471	1,455	1,427
Nonmanufacturing industries .....	1,379	1,331	889	823	840	791	490	507	469	490
Transportation and material moving occupations .....	4,712	4,808	4,238	4,384	4,092	4,265	474	424	466	415
Motor vehicle operators .....	3,481	3,579	3,047	3,201	2,929	3,114	434	378	428	371
Other transportation and material moving occupations .....	1,231	1,229	1,191	1,182	1,163	1,172	40	47	39	44
Handlers, equipment cleaners, helpers, and laborers .....	4,816	4,351	3,991	3,566	3,315	3,012	825	786	724	710
Construction laborers .....	746	587	717	564	669	524	29	23	28	23
Other handlers, equipment cleaners, helpers, and laborers .....	4,070	3,765	3,275	3,002	2,646	2,489	796	762	696	687
<b>Farming, forestry, and fishing</b> .....	<b>2,703</b>	<b>2,852</b>	<b>2,278</b>	<b>2,360</b>	<b>2,139</b>	<b>2,217</b>	<b>426</b>	<b>492</b>	<b>401</b>	<b>474</b>
Farm operators and managers .....	1,181	1,188	1,014	994	1,006	988	168	194	166	192
Other farming, forestry, and fishing occupations .....	1,522	1,664	1,264	1,366	1,133	1,228	259	298	236	282

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	116,308	115,151	63,293	62,296	53,016	52,855
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.3	27.0	26.1	26.7	26.6	27.4
Executive, administrative, and managerial .....	12.7	13.0	14.0	14.3	11.1	11.5
Professional specialty .....	13.6	14.0	12.1	12.4	15.5	15.9
Technical, sales, and administrative support .....	31.6	31.1	20.4	20.2	45.0	44.0
Technicians and related support .....	3.3	3.3	3.1	3.2	3.6	3.5
Sales occupations .....	12.2	12.0	11.4	11.4	13.0	12.6
Administrative support, including clerical .....	16.1	15.9	5.9	5.7	26.4	27.9
Service occupations .....	13.1	13.6	9.8	10.3	17.2	17.5
Private household .....	.7	.6	-	.1	1.4	1.3
Protective service .....	1.7	1.8	2.7	2.8	.5	.6
Service, except private household and protective .....	10.8	11.2	7.0	7.4	15.2	15.6
Precision production, craft, and repair .....	11.5	11.3	19.4	19.1	2.2	2.1
Operators, fabricators, and laborers .....	15.1	14.4	20.7	19.9	8.3	8.0
Machine operators, assemblers, and inspectors .....	6.9	6.5	7.7	7.1	5.8	5.7
Transportation and material moving occupations .....	4.1	4.2	6.7	7.0	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.1	3.8	6.3	5.7	1.6	1.5
Farming, forestry, and fishing .....	2.3	2.5	3.6	3.8	.8	.9
<b>White</b>						
Total, 16 years and over (thousands) .....	100,689	99,698	55,510	54,509	45,179	45,189
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	27.4	28.2	27.1	27.8	27.8	28.6
Executive, administrative, and managerial .....	13.4	13.7	14.8	15.1	11.6	12.1
Professional specialty .....	14.1	14.4	12.3	12.7	16.2	16.5
Technical, sales, and administrative support .....	32.0	31.5	20.9	20.5	45.6	44.8
Technicians and related support .....	3.3	3.3	3.1	3.1	3.5	3.5
Sales occupations .....	12.7	12.5	12.1	12.0	13.5	13.2
Administrative support, including clerical .....	16.0	15.7	5.7	5.3	28.6	28.2
Service occupations .....	12.0	12.3	8.8	9.2	15.9	16.1
Private household .....	.6	.5	-	-	1.2	1.1
Protective service .....	1.6	1.7	2.6	2.7	.4	.5
Service, except private household and protective .....	9.8	10.1	6.1	6.5	14.3	14.5
Precision production, craft, and repair .....	11.9	11.7	19.9	19.7	2.1	2.1
Operators, fabricators, and laborers .....	14.3	13.6	19.6	18.8	7.7	7.4
Machine operators, assemblers, and inspectors .....	6.6	6.1	7.6	6.9	5.4	5.1
Transportation and material moving occupations .....	3.9	4.0	6.4	6.6	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.8	3.6	5.7	5.3	1.4	1.5
Farming, forestry, and fishing .....	2.4	2.7	3.7	4.0	.9	1.0
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,798	11,605	5,738	5,701	6,060	5,904
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.9	16.6	13.4	14.8	18.3	18.3
Executive, administrative, and managerial .....	7.0	7.3	6.4	7.7	7.6	7.0
Professional specialty .....	6.9	9.2	7.0	7.2	10.6	11.2
Technical, sales, and administrative support .....	28.9	28.3	15.9	16.8	41.2	39.5
Technicians and related support .....	3.0	3.0	2.3	2.6	3.8	3.3
Sales occupations .....	7.6	7.3	5.9	5.9	9.2	8.6
Administrative support, including clerical .....	18.2	18.1	7.7	8.3	26.2	27.5
Service occupations .....	22.0	23.8	17.9	19.1	25.9	28.2
Private household .....	1.5	1.5	-	.1	3.0	2.8
Protective service .....	2.7	2.7	4.3	4.3	1.1	1.2
Service, except private household and protective .....	17.8	19.6	13.6	14.8	21.8	24.2
Precision production, craft, and repair .....	9.5	8.7	16.6	15.3	2.9	2.3
Operators, fabricators, and laborers .....	22.2	21.5	33.2	31.8	11.7	11.6
Machine operators, assemblers, and inspectors .....	9.1	9.1	10.0	9.6	8.2	8.7
Transportation and material moving occupations .....	5.8	6.4	10.8	11.9	1.1	1.1
Handlers, equipment cleaners, helpers, and laborers .....	7.2	6.0	12.4	10.3	2.3	1.8
Farming, forestry, and fishing .....	1.6	1.1	3.1	2.1	.1	.2

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	February 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					
Total, 16 years and over .....	103,542	885	18,041	84,615	8,610	214	1,368	1,306	112
16 to 19 years .....	5,107	121	313	4,672	49	4	112	14	17
16 to 17 years .....	1,902	83	74	1,745	21	3	44	6	9
18 to 19 years .....	3,205	39	239	2,928	28	1	68	8	8
20 to 24 years .....	11,438	108	1,105	10,225	237	12	204	43	7
25 to 34 years .....	30,128	138	4,334	25,657	1,964	28	449	251	27
35 to 44 years .....	27,583	151	5,846	21,585	2,554	54	281	319	22
45 to 54 years .....	17,371	154	3,892	13,324	1,898	62	163	246	17
55 to 64 years .....	9,441	129	2,062	7,250	1,286	37	119	261	17
55 to 59 years .....	5,786	68	1,340	4,378	722	22	59	119	11
60 to 64 years .....	3,655	61	723	2,871	565	16	61	142	6
65 years and over .....	2,475	84	489	1,902	622	16	41	172	6
<b>Men, 16 years and over .....</b>	<b>54,532</b>	<b>99</b>	<b>8,248</b>	<b>46,185</b>	<b>5,552</b>	<b>25</b>	<b>1,050</b>	<b>1,090</b>	<b>47</b>
16 to 19 years .....	2,501	15	123	2,364	27	4	96	14	14
16 to 17 years .....	936	8	32	897	9	2	36	6	9
18 to 19 years .....	1,565	7	91	1,467	18	1	60	8	5
20 to 24 years .....	5,801	24	512	5,265	136	9	168	35	5
25 to 34 years .....	16,200	21	1,934	14,244	1,230	4	342	211	19
35 to 44 years .....	14,484	10	2,603	11,870	1,637	1	201	259	5
45 to 54 years .....	9,133	16	1,824	7,293	1,215	-	124	200	3
55 to 64 years .....	5,175	8	1,005	4,163	884	1	89	215	-
55 to 59 years .....	3,155	7	653	2,495	486	-	41	98	-
60 to 64 years .....	2,020	1	352	1,667	398	2	49	117	-
65 years and over .....	1,237	4	247	986	423	7	29	156	2
<b>Women, 16 years and over .....</b>	<b>49,010</b>	<b>786</b>	<b>9,793</b>	<b>38,431</b>	<b>3,059</b>	<b>188</b>	<b>318</b>	<b>215</b>	<b>65</b>
16 to 19 years .....	2,606	106	191	2,309	22	-	15	-	2
16 to 17 years .....	965	75	42	648	12	1	7	-	-
18 to 19 years .....	1,640	31	148	1,461	10	-	8	-	2
20 to 24 years .....	5,636	83	593	4,960	101	4	36	8	2
25 to 34 years .....	13,928	116	2,399	11,413	733	24	106	40	8
35 to 44 years .....	13,099	141	3,243	9,715	918	53	79	60	17
45 to 54 years .....	8,237	138	2,068	6,031	683	62	39	46	14
55 to 64 years .....	4,266	121	1,058	3,087	402	36	30	45	17
55 to 59 years .....	2,631	61	687	1,883	235	22	18	20	11
60 to 64 years .....	1,634	60	371	1,204	167	14	12	25	6
65 years and over .....	1,238	80	242	916	199	9	12	16	4



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

(In thousands)

Industry	February 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 .....	2,786	103	85	23	18	82	-	12	68	16	30	12	2,335
Mining .....	764	99	75	49	12	86	-	15	257	21	133	17	2
Construction .....	6,680	933	127	57	57	418	-	24	3,830	119	481	629	5
Manufacturing .....	20,384	2,565	1,802	835	700	2,228	-	402	3,865	6,119	759	1,007	104
Durable goods .....	11,876	1,465	1,200	569	295	1,257	-	228	2,587	3,326	362	507	80
Nondurable goods .....	8,508	1,101	603	266	405	969	→	174	1,278	2,793	397	500	23
Transportation and public utilities .....	8,088	1,007	489	314	310	2,114	-	221	1,265	115	1,826	418	10
Wholesale and retail trade .....	23,618	2,112	447	154	9,791	2,376	-	4,256	1,432	309	962	1,764	15
Wholesale trade .....	4,577	532	76	43	1,894	769	-	40	291	142	434	348	8
Retail trade .....	19,042	1,580	371	111	7,897	1,607	-	4,216	1,141	167	528	1,416	7
Finance, insurance, and real estate .....	7,856	2,053	257	122	1,842	3,032	-	269	169	18	20	16	58
Services .....	39,447	4,860	12,073	2,042	998	6,481	741	8,346	1,922	696	546	445	296
Private households .....	889	2	5	3	2	5	741	69	22	-	6	12	24
Other service industries .....	38,558	4,859	12,068	2,039	996	6,476	-	8,277	1,900	697	541	433	272
Professional services .....	25,846	2,712	10,707	1,651	203	4,688	-	4,805	402	187	322	100	69
Public administration .....	5,527	1,273	767	208	34	1,466	-	1,375	245	36	52	44	27

<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					
	Feb. 1990	Feb. 1991	Total		Wage and salary workers <sup>1</sup>			
			Feb. 1990	Feb. 1991	Paid absences		Unpaid absences	
					Feb. 1990	Feb. 1991	Feb. 1990	Feb. 1991
Total, 16 years and over .....	4,644	4,475	4,500	4,326	1,978	1,852	1,918	1,810
Vacation .....	1,683	1,628	1,650	1,584	1,110	1,035	363	352
Illness .....	1,500	1,418	1,467	1,388	579	578	747	691
Bad weather .....	217	195	193	171	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	20	22	19	22	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,223	1,212	1,172	1,161	289	239	808	767
Men, 16 years and over .....	2,410	2,301	2,294	2,179	1,062	937	859	808
Vacation .....	882	865	853	831	609	579	155	147
Illness .....	814	690	786	672	335	279	360	320
All other reasons <sup>3</sup> .....	713	746	655	677	117	79	344	341
Women, 16 years and over .....	2,234	2,175	2,206	2,147	915	913	1,058	1,001
Vacation .....	801	763	796	753	501	455	207	205
Illness .....	687	728	682	716	243	299	387	371
All other reasons <sup>3</sup> .....	746	684	728	678	172	159	465	426

<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	February 1991					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	110,676	2,636	108,040	100.0	100.0	100.0
1 to 34 hours .....	28,432	818	27,614	25.7	31.0	25.6
1 to 4 hours .....	828	54	773	.7	2.0	.7
5 to 14 hours .....	4,930	183	4,747	4.5	6.9	4.4
15 to 29 hours .....	13,950	413	13,537	12.6	15.7	12.5
30 to 34 hours .....	8,724	167	8,557	7.9	6.3	7.9
35 hours and over .....	82,245	1,819	80,426	74.3	69.0	74.4
35 to 39 hours .....	7,102	132	6,971	6.4	5.0	6.5
40 hours .....	43,998	549	43,449	39.8	20.8	40.2
41 hours and over .....	31,144	1,138	30,006	28.1	43.2	27.8
41 to 48 hours .....	11,118	207	10,911	10.0	7.9	10.1
49 to 59 hours .....	11,499	394	11,105	10.4	14.9	10.3
60 hours and over .....	8,527	537	7,990	7.7	20.4	7.4
Average hours, total at work .....	38.8	41.5	38.7	-	-	-
Average hours, workers on full-time schedules .....	43.4	48.9	43.2	-	-	-

**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	February 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 .....	28,432	9,137	19,295	27,614	8,810	18,804
Economic reasons .....	6,092	2,576	3,516	5,849	2,430	3,419
Slack work .....	3,574	2,298	1,276	3,371	2,162	1,209
Material shortages or repairs to plant and equipment .....	57	57	-	56	56	-
New job started during week .....	142	142	-	136	136	-
Job terminated during week .....	78	78	-	76	76	-
Could find only part-time work .....	2,240	-	2,240	2,210	-	2,210
Other reasons .....	22,339	6,560	15,779	21,765	6,380	15,365
Does not want, or unavailable for, full-time work .....	13,048	-	13,048	12,802	-	12,802
Vacation .....	1,273	1,273	-	1,258	1,258	-
Illness .....	1,909	1,773	136	1,882	1,752	130
Bad weather .....	717	717	-	642	642	-
Industrial dispute .....	4	4	-	4	4	-
Legal or religious holiday .....	1,151	1,151	-	1,150	1,150	-
Full time for this job .....	1,831	-	1,831	1,779	-	1,779
All other reasons .....	2,407	1,642	765	2,249	1,575	674
Average hours:						
Economic reasons .....	22.8	25.0	21.2	22.9	25.1	21.2
Other reasons .....	21.3	26.6	19.1	21.4	26.7	19.1
Worked 30 to 34 hours:						
Economic reasons .....	2,161	1,246	915	2,092	1,187	905
Other reasons .....	6,562	3,688	2,874	6,465	3,630	2,835

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Industry	February 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 .....	108,040	5,849	15,385	86,806	56,800	10,911	19,095	38.7	43.2
Wage and salary workers .....	99,840	5,066	13,957	80,816	53,999	10,289	16,528	38.6	42.9
Mining .....	696	9	17	670	362	89	219	45.5	46.5
Construction .....	4,997	462	202	4,332	3,115	448	769	39.1	41.8
Manufacturing .....	19,290	782	591	17,916	11,771	2,750	3,396	41.7	43.0
Durable goods .....	11,294	394	259	10,640	7,063	1,632	1,945	41.9	42.9
Nondurable goods .....	7,997	368	333	7,276	4,707	1,118	1,451	41.4	43.2
Transportation and public utilities .....	7,399	204	412	6,783	4,379	933	1,472	41.8	43.6
Wholesale and retail trade .....	21,062	1,739	5,051	14,273	8,730	2,081	3,462	36.3	43.9
Finance, insurance, and real estate .....	7,011	133	690	6,188	4,344	733	1,111	39.6	42.1
Service industries .....	34,080	1,685	6,784	25,612	17,466	2,827	5,319	36.9	42.7
Private households .....	856	165	363	328	230	34	64	26.2	43.6
All other industries .....	33,225	1,519	6,421	25,284	17,237	2,793	5,255	37.2	42.7
Public administration .....	5,304	52	210	5,042	3,833	429	760	40.6	41.7
Self-employed workers .....	7,987	775	1,348	5,864	2,727	612	2,525	39.9	47.5
Unpaid family workers .....	214	8	79	126	74	10	42	35.9	45.6

**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	February 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 .....	108,040	5,849	15,385	86,806	56,800	30,006	38.7	43.2
16 to 19 years .....	5,005	431	3,277	1,298	1,011	287	22.4	39.7
16 to 17 years .....	1,858	55	1,678	125	112	14	15.9	36.6
18 to 19 years .....	3,147	376	1,600	1,172	899	273	26.3	40.1
20 years and over .....	103,034	5,418	12,107	85,509	55,789	29,720	39.5	43.3
20 to 24 years .....	11,360	983	2,397	7,980	5,826	2,154	35.3	41.6
25 years and over .....	91,675	4,435	9,711	77,529	49,964	27,565	40.0	43.5
25 to 44 years .....	60,116	2,994	5,370	51,752	32,925	18,827	40.5	43.5
45 to 64 years .....	28,722	1,284	2,977	24,461	16,066	8,395	40.2	43.5
65 years and over .....	2,837	157	1,364	1,316	971	344	28.9	42.0
<b>Men, 16 years and over</b> .....	57,930	2,903	4,559	50,468	29,619	20,849	41.6	44.7
16 to 19 years .....	2,444	203	1,500	741	584	177	23.8	40.2
16 to 17 years .....	906	26	813	68	63	5	16.8	( <sup>1</sup> )
18 to 19 years .....	1,538	178	687	673	502	172	28.1	40.6
20 years and over .....	55,485	2,700	3,059	49,727	29,055	20,672	42.3	44.8
20 to 24 years .....	5,794	536	1,037	4,221	2,687	1,334	36.6	42.5
25 years and over .....	49,691	2,163	2,023	45,506	26,168	19,338	43.0	45.0
25 to 44 years .....	32,509	1,554	780	30,175	17,067	13,108	43.5	45.1
45 to 64 years .....	15,680	529	589	14,562	8,587	5,975	43.2	44.9
65 years and over .....	1,503	80	654	769	515	254	30.9	43.2
<b>Women, 16 years and over</b> .....	50,110	2,946	10,826	36,339	27,181	9,157	35.4	41.2
16 to 19 years .....	2,561	227	1,777	557	447	110	21.1	39.1
16 to 17 years .....	951	30	864	58	49	9	15.2	( <sup>1</sup> )
18 to 19 years .....	1,610	198	913	499	398	101	24.5	39.3
20 years and over .....	47,549	2,718	9,048	35,782	26,735	9,047	36.2	41.2
20 to 24 years .....	5,566	447	1,360	3,759	2,939	820	33.9	40.6
25 years and over .....	41,983	2,272	7,688	32,023	23,796	8,226	36.5	41.3
25 to 44 years .....	27,607	1,441	4,590	21,576	15,859	5,717	36.9	41.3
45 to 64 years .....	13,041	754	2,388	9,899	7,479	2,420	36.6	41.4
65 years and over .....	1,334	78	710	546	456	90	26.8	40.4
<b>RACE</b>								
White, 16 years and over .....	93,325	4,871	13,854	74,600	47,337	27,263	38.8	43.5
Men .....	50,574	2,483	4,012	44,079	25,010	19,089	41.7	44.9
Women .....	42,751	2,388	9,843	30,521	22,327	8,194	35.3	41.3
Black, 16 years and over .....	11,036	783	1,109	9,144	7,290	1,855	38.0	41.5
Men .....	5,367	335	379	4,653	3,468	1,185	39.9	42.7
Women .....	5,669	448	729	4,491	3,822	669	36.1	40.2
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,169	1,325	1,379	34,464	19,337	15,128	43.5	45.2
Widowed, divorced, or separated .....	6,009	426	260	5,323	3,155	2,168	41.9	44.5
Single (never married) .....	14,752	1,152	2,920	10,680	7,127	3,553	36.6	43.3
Women, 16 years and over:								
Married, spouse present .....	27,761	1,410	6,124	20,227	15,367	4,859	35.5	41.0
Widowed, divorced, or separated .....	10,059	881	1,330	8,049	5,877	2,172	37.6	41.5
Single (never married) .....	12,290	855	3,372	8,064	5,937	2,127	33.4	41.4

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

**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	February 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		
<b>Total, 16 years and over<sup>1</sup></b> .....	<b>107,993</b>	<b>5,846</b>	<b>15,382</b>	<b>86,765</b>	<b>56,660</b>	<b>10,929</b>	<b>19,176</b>	<b>38.7</b>	<b>43.3</b>
<b>Managerial and professional specialty</b> .....	<b>30,013</b>	<b>629</b>	<b>2,830</b>	<b>26,554</b>	<b>14,760</b>	<b>3,352</b>	<b>8,443</b>	<b>42.1</b>	<b>45.1</b>
Executive, administrative, and managerial .....	14,478	259	720	13,498	7,011	1,702	4,785	44.2	45.9
Professional specialty .....	15,535	389	2,110	13,056	7,748	1,650	3,657	40.2	44.2
<b>Technical, sales, and administrative support</b> .....	<b>34,678</b>	<b>1,512</b>	<b>6,384</b>	<b>26,783</b>	<b>18,654</b>	<b>3,184</b>	<b>4,944</b>	<b>37.3</b>	<b>42.3</b>
Technicians and related support .....	3,700	80	415	3,205	2,263	410	533	39.7	42.5
Sales occupations .....	13,284	824	2,807	9,654	5,201	1,288	3,165	38.4	45.4
Administrative support, including clerical .....	17,694	608	3,162	13,924	11,190	1,487	1,247	35.9	40.1
<b>Service occupations</b> .....	<b>15,020</b>	<b>1,511</b>	<b>4,247</b>	<b>9,263</b>	<b>6,814</b>	<b>972</b>	<b>1,476</b>	<b>33.5</b>	<b>42.3</b>
Private household .....	717	129	320	268	190	28	50	25.8	43.7
Protective service .....	1,926	48	188	1,692	1,038	227	427	41.9	45.0
Service, except private household and protective .....	12,378	1,335	3,741	7,302	5,586	717	999	32.6	41.6
<b>Precision production, craft, and repair</b> .....	<b>12,484</b>	<b>905</b>	<b>452</b>	<b>11,128</b>	<b>7,446</b>	<b>1,567</b>	<b>2,115</b>	<b>40.5</b>	<b>42.7</b>
<b>Operators, fabricators, and laborers</b> .....	<b>15,797</b>	<b>1,291</b>	<b>1,470</b>	<b>13,037</b>	<b>8,986</b>	<b>1,854</b>	<b>2,197</b>	<b>39.1</b>	<b>42.7</b>
Machine operators, assemblers, and inspectors .....	7,126	535	269	6,322	4,657	919	746	39.8	41.7
Transportation and material moving occupations .....	4,503	274	417	3,812	2,135	557	1,120	41.7	45.5
Handlers, equipment cleaners, helpers, and laborers .....	4,168	482	784	2,903	2,194	377	332	35.0	41.4
<b>Men, 16 years and over<sup>1</sup></b> .....	<b>57,776</b>	<b>2,897</b>	<b>4,534</b>	<b>50,345</b>	<b>29,440</b>	<b>6,768</b>	<b>14,138</b>	<b>41.6</b>	<b>44.8</b>
<b>Managerial and professional specialty</b> .....	<b>16,140</b>	<b>325</b>	<b>735</b>	<b>15,081</b>	<b>7,148</b>	<b>1,878</b>	<b>6,055</b>	<b>45.2</b>	<b>47.0</b>
Executive, administrative, and managerial .....	8,660	175	253	8,232	3,591	1,055	3,586	46.4	47.7
Professional specialty .....	7,480	150	481	6,849	3,557	823	2,469	43.8	46.2
<b>Technical, sales, and administrative support</b> .....	<b>12,271</b>	<b>379</b>	<b>1,285</b>	<b>10,608</b>	<b>5,835</b>	<b>1,484</b>	<b>3,288</b>	<b>41.7</b>	<b>45.2</b>
Technicians and related support .....	1,922	28	108	1,786	1,172	241	373	41.9	43.6
Sales occupations .....	6,909	248	727	5,934	2,623	851	2,461	43.5	47.4
Administrative support, including clerical .....	3,440	103	450	2,887	2,041	391	455	38.1	41.7
<b>Service occupations</b> .....	<b>6,145</b>	<b>501</b>	<b>1,221</b>	<b>4,423</b>	<b>3,107</b>	<b>472</b>	<b>844</b>	<b>36.7</b>	<b>43.4</b>
Private household .....	32	12	9	11	8	1	1	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,651	43	133	1,476	888	186	402	42.8	45.6
Service, except private household and protective .....	4,462	446	1,079	2,936	2,211	284	441	34.5	42.4
<b>Precision production, craft, and repair</b> .....	<b>11,396</b>	<b>831</b>	<b>302</b>	<b>10,263</b>	<b>6,783</b>	<b>1,456</b>	<b>2,025</b>	<b>40.8</b>	<b>42.9</b>
<b>Operators, fabricators, and laborers</b> .....	<b>11,823</b>	<b>861</b>	<b>991</b>	<b>9,971</b>	<b>6,567</b>	<b>1,478</b>	<b>1,926</b>	<b>39.9</b>	<b>43.4</b>
Machine operators, assemblers, and inspectors .....	4,276	241	115	3,921	2,748	619	555	40.9	42.4
Transportation and material moving occupations .....	4,120	256	265	3,600	1,996	530	1,073	42.5	45.6
Handlers, equipment cleaners, helpers, and laborers .....	3,427	365	612	2,451	1,823	330	298	35.5	41.6
<b>Women, 16 years and over<sup>1</sup></b> .....	<b>50,217</b>	<b>2,950</b>	<b>10,848</b>	<b>38,419</b>	<b>27,220</b>	<b>4,161</b>	<b>5,038</b>	<b>35.4</b>	<b>41.2</b>
<b>Managerial and professional specialty</b> .....	<b>13,872</b>	<b>304</b>	<b>2,095</b>	<b>11,473</b>	<b>7,612</b>	<b>1,474</b>	<b>2,388</b>	<b>38.6</b>	<b>42.5</b>
Executive, administrative, and managerial .....	5,817	84	466	5,287	3,420	647	1,199	41.0	43.1
Professional specialty .....	8,055	220	1,629	6,207	4,192	827	1,188	36.9	42.0
<b>Technical, sales, and administrative support</b> .....	<b>22,407</b>	<b>1,133</b>	<b>5,099</b>	<b>16,175</b>	<b>12,818</b>	<b>1,701</b>	<b>1,656</b>	<b>34.8</b>	<b>40.4</b>
Technicians and related support .....	1,778	52	307	1,419	1,091	169	160	37.3	41.2
Sales occupations .....	6,375	575	2,080	3,720	2,579	437	704	33.0	42.3
Administrative support, including clerical .....	14,254	506	2,712	11,036	9,149	1,095	792	35.4	39.7
<b>Service occupations</b> .....	<b>8,876</b>	<b>1,010</b>	<b>3,026</b>	<b>4,840</b>	<b>3,707</b>	<b>501</b>	<b>632</b>	<b>31.3</b>	<b>41.2</b>
Private household .....	885	117	312	257	182	26	49	25.9	43.6
Protective service .....	274	5	53	217	150	42	25	36.0	41.5
Service, except private household and protective .....	7,916	888	2,661	4,366	3,375	433	559	31.6	41.0
<b>Precision production, craft, and repair</b> .....	<b>1,088</b>	<b>74</b>	<b>150</b>	<b>865</b>	<b>664</b>	<b>111</b>	<b>90</b>	<b>36.7</b>	<b>40.8</b>
<b>Operators, fabricators, and laborers</b> .....	<b>3,974</b>	<b>430</b>	<b>478</b>	<b>3,066</b>	<b>2,419</b>	<b>375</b>	<b>272</b>	<b>36.6</b>	<b>40.7</b>
Machine operators, assemblers, and inspectors .....	2,850	295	155	2,401	1,909	301	191	38.1	40.5
Transportation and material moving occupations .....	383	18	152	213	139	27	47	33.4	43.3
Handlers, equipment cleaners, helpers, and laborers .....	741	117	172	453	371	48	34	32.7	40.2

<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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	189,090	189,198	189,326	189,467	189,607	189,763	189,901	190,002	190,095	190,312	190,483	190,592	190,717
Labor force <sup>1</sup> .....	126,331	126,467	126,438	126,578	126,427	126,336	126,345	126,571	126,445	126,338	126,791	126,253	126,678
Percent of population <sup>2</sup> .....	66.8	66.8	66.8	66.8	66.7	66.6	66.5	66.6	66.5	66.4	66.6	66.2	66.4
Total employed <sup>1</sup> .....	119,752	119,904	119,747	119,916	119,667	119,509	119,330	119,484	119,303	119,001	119,191	118,537	118,520
Employment-population ratio <sup>3</sup> .....	63.3	63.4	63.2	63.3	63.2	63.0	62.8	62.9	62.8	62.5	62.6	62.2	62.1
Resident Armed Forces .....	1,678	1,669	1,657	1,639	1,630	1,627	1,640	1,601	1,570	1,615	1,617	1,615	1,602
Civilian employed .....	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918
Agriculture .....	3,119	3,197	3,140	3,286	3,279	3,108	3,152	3,194	3,175	3,185	3,253	3,163	3,222
Nonagricultural industries .....	114,955	115,038	114,950	114,991	114,958	114,774	114,538	114,689	114,558	114,201	114,321	113,759	113,696
Unemployed .....	6,579	6,563	6,691	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158
Unemployment rate <sup>4</sup> .....	5.2	5.2	5.3	5.3	5.2	5.4	5.6	5.6	5.6	5.8	6.0	6.1	6.4
Not in labor force .....	62,759	62,731	62,888	62,889	63,180	63,427	63,556	63,431	63,650	63,974	63,692	64,339	64,039
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	90,822	90,874	90,942	91,014	91,087	91,168	91,240	91,271	91,299	91,440	91,537	91,590	91,650
Labor force <sup>1</sup> .....	69,648	69,667	69,697	69,729	69,609	69,523	69,552	69,814	69,804	69,899	70,058	69,543	69,749
Percent of population <sup>2</sup> .....	76.7	76.7	76.6	76.6	76.4	76.3	76.2	76.5	76.5	76.4	76.5	75.9	76.1
Total employed <sup>1</sup> .....	66,086	66,104	66,035	66,061	65,964	65,728	65,663	65,853	65,822	65,790	65,781	65,251	65,043
Employment-population ratio <sup>3</sup> .....	72.8	72.7	72.6	72.6	72.4	72.1	72.0	72.2	72.1	71.9	71.9	71.2	71.0
Resident Armed Forces .....	1,506	1,497	1,499	1,472	1,465	1,462	1,475	1,441	1,414	1,453	1,454	1,453	1,439
Civilian employed .....	64,580	64,607	64,536	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327	63,798	63,604
Unemployed .....	3,562	3,563	3,662	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706
Unemployment rate <sup>4</sup> .....	5.1	5.1	5.3	5.3	5.2	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.7
Not in labor force .....	21,174	21,207	21,245	21,285	21,478	21,645	21,688	21,457	21,495	21,541	21,479	22,047	21,901
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	98,268	98,324	98,383	98,453	98,520	98,595	98,661	98,731	98,796	98,872	98,946	99,002	99,087
Labor force <sup>1</sup> .....	56,683	56,800	56,741	56,849	56,818	56,813	56,793	56,757	56,641	56,439	56,733	56,710	56,929
Percent of population <sup>2</sup> .....	57.7	57.8	57.7	57.7	57.7	57.6	57.6	57.5	57.3	57.1	57.3	57.3	57.5
Total employed <sup>1</sup> .....	53,666	53,800	53,712	53,855	53,903	53,781	53,667	53,631	53,481	53,211	53,410	53,287	53,477
Employment-population ratio <sup>3</sup> .....	54.6	54.7	54.6	54.7	54.7	54.5	54.4	54.3	54.1	53.8	54.0	53.8	54.0
Resident Armed Forces .....	172	172	158	167	165	165	165	160	156	162	163	162	163
Civilian employed .....	53,494	53,628	53,554	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247	53,125	53,314
Unemployed .....	3,017	3,000	3,029	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452
Unemployment rate <sup>4</sup> .....	5.3	5.3	5.3	5.3	5.1	5.3	5.5	5.5	5.8	5.7	5.9	6.0	6.1
Not in labor force .....	41,585	41,524	41,642	41,604	41,702	41,782	41,868	41,974	42,155	42,433	42,213	42,292	42,138

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

(Numbers in thousands)

Employment status, sex, and age	1990												1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
<b>TOTAL</b>														
Civilian noninstitutional population <sup>1</sup>	187,412	187,529	187,669	187,828	187,977	188,138	188,281	188,401	188,525	188,697	188,866	188,977	189,115	
Civilian labor force	124,653	124,798	124,781	124,939	124,797	124,709	124,705	124,970	124,875	124,723	125,174	124,638	125,076	
Percent of population	66.5	66.5	66.5	66.5	66.4	66.3	66.2	66.3	66.2	66.1	66.3	66.0	66.1	
Employed	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,388	117,574	116,922	116,918	
Employment-population ratio <sup>2</sup>	63.0	63.0	62.9	63.0	62.9	62.7	62.5	62.6	62.4	62.2	62.3	61.9	61.8	
Unemployed	6,579	6,563	6,691	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158	
Unemployment rate	5.3	5.3	5.4	5.3	5.3	5.5	5.8	5.7	5.7	5.9	6.1	6.2	6.5	
<b>Men, 16 years and over</b>														
Civilian noninstitutional population <sup>1</sup>	89,316	89,377	89,443	89,542	89,622	89,706	89,765	89,830	89,885	89,987	90,063	90,137	90,211	
Civilian labor force	66,142	66,170	66,198	66,257	66,144	66,061	66,077	66,373	66,390	66,446	66,604	66,890	66,310	
Percent of population	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
Employed	64,580	64,607	64,536	64,589	64,499	64,286	64,188	64,412	64,408	64,337	64,327	63,798	63,604	
Employment-population ratio <sup>2</sup>	72.3	72.3	72.2	72.1	72.0	71.6	71.5	71.7	71.7	71.5	71.4	70.8	70.5	
Agriculture	2,471	2,497	2,435	2,562	2,571	2,478	2,477	2,512	2,504	2,518	2,572	2,466	2,520	
Nonagricultural industries	62,109	62,110	62,101	62,027	61,928	61,788	61,711	61,900	61,904	61,819	61,755	61,331	61,084	
Unemployed	3,562	3,563	3,662	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706	
Unemployment rate	5.2	5.2	5.4	5.4	5.3	5.6	5.7	5.8	5.8	6.0	6.2	6.3	6.9	
Not in labor force	21,174	21,207	21,245	21,285	21,478	21,645	21,688	21,457	21,495	21,541	21,479	22,047	21,901	
<b>Men, 20 years and over</b>														
Civilian noninstitutional population <sup>1</sup>	82,248	82,378	82,487	82,581	82,678	82,790	82,862	82,940	83,013	83,092	83,208	83,271	83,392	
Civilian labor force	64,111	64,154	64,188	64,313	64,342	64,331	64,419	64,572	64,594	64,682	64,803	64,945	64,577	
Percent of population	77.9	77.9	77.8	77.9	77.8	77.7	77.7	77.9	77.8	77.8	77.9	77.7	77.4	
Employed	61,160	61,202	61,152	61,276	61,294	61,162	61,174	61,248	61,245	61,217	61,188	60,734	60,533	
Employment-population ratio <sup>2</sup>	74.4	74.3	74.1	74.2	74.1	73.9	73.8	73.8	73.8	73.7	73.5	72.9	72.8	
Agriculture	2,262	2,275	2,272	2,374	2,369	2,279	2,266	2,299	2,263	2,307	2,395	2,289	2,315	
Nonagricultural industries	58,898	58,927	58,880	58,902	58,925	58,883	58,908	58,949	58,962	58,910	58,823	58,445	58,217	
Unemployed	2,951	2,952	3,036	3,037	3,048	3,169	3,245	3,324	3,349	3,465	3,615	3,611	4,044	
Unemployment rate	4.6	4.6	4.7	4.7	4.7	4.9	5.0	5.1	5.2	5.4	5.6	5.6	6.3	
Not in labor force	18,137	18,224	18,299	18,268	18,334	18,459	18,443	18,368	18,419	18,410	18,405	18,926	18,815	
<b>Women, 16 years and over</b>														
Civilian noninstitutional population <sup>1</sup>	98,096	98,152	98,225	98,268	98,355	98,430	98,496	98,571	98,640	98,710	98,763	98,840	98,904	
Civilian labor force	58,511	58,628	58,653	58,662	58,653	58,648	58,628	58,597	58,485	58,277	58,570	58,548	58,766	
Percent of population	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	
Employed	53,494	53,628	53,554	53,688	53,738	53,616	53,502	53,471	53,323	53,049	53,247	53,125	53,314	
Employment-population ratio <sup>2</sup>	54.5	54.6	54.5	54.6	54.6	54.5	54.3	54.2	54.1	53.7	53.9	53.7	53.9	
Agriculture	648	700	705	724	708	630	675	682	671	687	681	697	703	
Nonagricultural industries	52,846	52,928	52,849	52,964	53,030	52,986	52,827	52,789	52,654	52,382	52,566	52,428	52,611	
Unemployed	3,017	3,000	3,029	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452	
Unemployment rate	5.3	5.3	5.4	5.3	5.1	5.4	5.5	5.5	5.6	5.7	5.9	6.1	6.1	
Not in labor force	41,585	41,524	41,642	41,604	41,702	41,782	41,868	41,974	42,155	42,433	42,213	42,292	42,138	
<b>Women, 20 years and over</b>														
Civilian noninstitutional population <sup>1</sup>	91,157	91,237	91,330	91,414	91,495	91,581	91,668	91,765	91,857	91,963	92,042	92,139	92,198	
Civilian labor force	52,822	52,837	52,943	53,075	53,107	53,155	53,255	53,129	53,047	52,896	53,182	53,097	53,294	
Percent of population	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	
Employed	50,340	50,368	50,424	50,613	50,675	50,637	50,649	50,504	50,423	50,196	50,389	50,300	50,404	
Employment-population ratio <sup>2</sup>	55.2	55.2	55.2	55.4	55.4	55.3	55.2	55.0	54.9	54.8	54.7	54.8	54.7	
Agriculture	609	650	658	664	681	586	634	633	628	627	647	664	675	
Nonagricultural industries	49,731	49,718	49,766	49,949	50,014	50,051	50,015	49,871	49,795	49,569	49,742	49,636	49,728	
Unemployed	2,482	2,469	2,519	2,462	2,432	2,518	2,606	2,625	2,624	2,700	2,793	2,797	2,881	
Unemployment rate	4.7	4.7	4.8	4.6	4.6	4.7	4.9	4.9	4.9	5.1	5.3	5.3	5.4	
Not in labor force	38,335	38,400	38,387	38,339	38,388	38,426	38,433	38,636	38,810	39,067	38,860	39,042	38,914	
<b>Both sexes, 16 to 19 years</b>														
Civilian noninstitutional population <sup>1</sup>	14,008	13,914	13,852	13,832	13,806	13,764	13,711	13,696	13,655	13,642	13,616	13,567	13,525	
Civilian labor force	7,720	7,807	7,650	7,551	7,348	7,223	7,031	7,269	7,234	7,145	7,189	7,198	7,215	
Percent of population	55.1	56.1	55.2	54.6	53.2	52.5	51.3	53.1	53.0	52.4	52.8	53.0	53.3	
Employed	6,574	6,665	6,514	6,388	6,268	6,083	5,867	6,131	6,065	5,973	5,997	5,889	5,982	
Employment-population ratio <sup>2</sup>	46.9	47.9	47.0	46.2	45.4	44.2	42.8	44.8	44.4	43.8	44.0	43.4	44.2	
Agriculture	246	272	210	248	249	243	252	262	264	251	241	211	232	
Nonagricultural industries	6,328	6,393	6,304	6,140	6,019	5,840	5,615	5,869	5,801	5,722	5,756	5,678	5,750	
Unemployed	1,146	1,142	1,136	1,163	1,080	1,140	1,164	1,138	1,169	1,172	1,192	1,307	1,233	
Unemployment rate	14.8	14.8	14.8	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1	
Not in labor force	6,288	6,107	6,202	6,281	6,458	6,541	6,680	6,427	6,421	6,497	6,427	6,371	6,310	

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted**

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1990												1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
<b>WHITE</b>														
Civilian noninstitutional population <sup>1</sup> .....	160,007	160,076	160,170	160,271	160,365	160,468	160,550	160,640	160,717	160,831	160,942	161,007	161,097	
Civilian labor force .....	107,090	107,103	107,090	107,223	107,184	107,196	107,166	107,391	107,277	107,048	107,517	106,962	107,432	
Percent of population .....	66.9	66.9	66.9	66.9	66.8	66.8	66.7	66.9	66.7	66.6	66.8	66.4	66.7	
Employed .....	102,145	102,208	102,088	102,293	102,332	102,189	101,996	102,192	102,017	101,648	101,843	101,104	101,141	
Employment-population ratio <sup>2</sup> .....	63.8	63.8	63.7	63.8	63.8	63.7	63.5	63.6	63.5	63.2	63.3	62.8	62.8	
Unemployed .....	4,945	4,895	5,002	4,930	4,852	5,007	5,170	5,199	5,260	5,400	5,674	5,858	6,291	
Unemployment rate .....	4.6	4.6	4.7	4.6	4.5	4.7	4.8	4.8	4.9	5.0	5.3	5.5	5.9	
<b>Men, 20 years and over</b>														
Civilian labor force .....	55,830	55,841	55,816	55,872	55,890	55,909	56,040	56,119	56,123	56,174	56,307	55,836	56,000	
Percent of population .....	78.4	78.4	78.3	78.3	78.2	78.2	78.3	78.3	78.3	78.3	78.3	77.6	77.8	
Employed .....	53,558	53,587	53,495	53,593	53,611	53,566	53,601	53,675	53,615	53,564	53,497	53,010	52,601	
Employment-population ratio <sup>2</sup> .....	75.3	75.2	75.0	75.1	75.0	74.9	74.9	74.8	74.8	74.6	74.4	73.7	73.3	
Unemployed .....	2,272	2,254	2,321	2,279	2,279	2,343	2,439	2,444	2,508	2,610	2,810	2,826	3,198	
Unemployment rate .....	4.1	4.0	4.2	4.1	4.1	4.2	4.4	4.4	4.5	4.6	5.0	5.1	5.7	
<b>Women, 20 years and over</b>														
Civilian labor force .....	44,634	44,595	44,733	44,861	44,982	45,039	45,060	44,984	44,918	44,711	44,995	44,888	45,211	
Percent of population .....	57.5	57.5	57.6	57.7	57.8	57.8	57.8	57.7	57.8	57.2	57.6	57.4	57.8	
Employed .....	42,822	42,820	42,911	43,086	43,200	43,229	43,194	43,101	43,032	42,768	43,001	42,841	43,019	
Employment-population ratio <sup>2</sup> .....	55.2	55.2	55.2	55.4	55.5	55.5	55.4	55.3	55.1	54.8	55.0	54.8	55.0	
Unemployed .....	1,812	1,775	1,822	1,775	1,782	1,810	1,866	1,883	1,886	1,943	1,994	2,047	2,192	
Unemployment rate .....	4.1	4.0	4.1	4.0	4.0	4.0	4.1	4.2	4.2	4.3	4.4	4.6	4.8	
<b>Both sexes, 16 to 19 years</b>														
Civilian labor force .....	6,626	6,667	6,541	6,490	6,312	6,248	6,066	6,288	6,236	6,163	6,215	6,238	6,222	
Percent of population .....	58.8	59.4	58.6	58.2	56.8	56.4	54.9	57.1	56.9	56.3	57.0	57.4	57.5	
Employed .....	5,765	5,801	5,682	5,614	5,521	5,394	5,201	5,416	5,370	5,316	5,345	5,253	5,321	
Employment-population ratio <sup>2</sup> .....	51.2	51.7	50.9	50.4	49.7	48.7	47.1	49.2	49.0	48.6	49.0	48.3	49.2	
Unemployed .....	861	866	859	876	791	854	865	872	866	847	870	985	901	
Unemployment rate .....	13.0	13.0	13.1	13.5	12.5	13.7	14.3	13.9	13.9	13.7	14.0	15.8	14.5	
Men .....	13.1	13.3	13.8	14.1	13.4	14.9	15.4	15.0	14.7	14.9	14.9	15.8	15.4	
Women .....	12.9	12.6	12.3	12.9	11.6	12.4	13.1	12.6	13.0	12.5	13.0	15.8	13.4	
<b>BLACK</b>														
Civilian noninstitutional population <sup>1</sup> .....	21,188	21,211	21,228	21,261	21,289	21,318	21,337	21,361	21,363	21,417	21,448	21,470	21,493	
Civilian labor force .....	13,464	13,540	13,534	13,570	13,488	13,406	13,401	13,476	13,493	13,550	13,486	13,501	13,421	
Percent of population .....	63.5	63.8	63.8	63.8	63.4	62.9	62.8	63.1	63.1	63.3	62.9	62.9	62.4	
Employed .....	12,026	12,092	12,098	12,128	12,044	11,884	11,838	11,869	11,913	11,897	11,836	11,868	11,839	
Employment-population ratio <sup>2</sup> .....	56.8	57.0	57.0	57.0	56.6	55.7	55.5	55.6	55.7	55.5	55.2	55.3	55.1	
Unemployed .....	1,438	1,448	1,436	1,442	1,444	1,522	1,563	1,607	1,580	1,653	1,650	1,635	1,582	
Unemployment rate .....	10.7	10.7	10.6	10.6	10.7	11.4	11.7	11.9	11.7	12.2	12.2	12.1	11.8	
<b>Men, 20 years and over</b>														
Civilian labor force .....	6,195	6,221	6,233	6,247	6,298	6,292	6,260	6,324	6,339	6,348	6,359	6,313	6,366	
Percent of population .....	73.6	73.5	73.6	73.6	74.1	73.9	73.4	74.1	74.1	74.3	74.1	73.5	73.9	
Employed .....	5,605	5,620	5,628	5,653	5,688	5,618	5,594	5,597	5,635	5,638	5,664	5,602	5,649	
Employment-population ratio <sup>2</sup> .....	66.6	66.4	66.5	66.6	66.9	65.9	65.6	65.5	65.9	66.0	66.0	65.2	65.6	
Unemployed .....	590	601	605	594	610	674	666	727	704	710	695	712	717	
Unemployment rate .....	9.5	9.7	9.7	9.5	9.7	10.7	10.6	11.5	11.1	11.2	10.9	11.3	11.3	
<b>Women, 20 years and over</b>														
Civilian labor force .....	6,414	6,434	6,434	6,486	6,377	6,336	6,358	6,362	6,345	6,365	6,339	6,374	6,288	
Percent of population .....	60.6	60.7	60.6	61.1	59.9	59.5	59.6	59.5	59.3	59.4	59.0	59.3	58.4	
Employed .....	5,813	5,843	5,843	5,888	5,797	5,738	5,733	5,716	5,728	5,717	5,668	5,738	5,694	
Employment-population ratio <sup>2</sup> .....	54.9	55.2	55.1	55.4	54.5	53.9	53.7	53.5	53.5	53.3	52.8	53.4	52.9	
Unemployed .....	601	591	591	598	580	598	625	646	617	648	671	636	593	
Unemployment rate .....	9.4	9.2	9.2	9.2	9.1	9.4	9.8	10.2	9.7	10.2	10.6	10.0	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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	855	885	867	837	813	778	783	790	809	837	788	814	769
Percent of population .....	39.1	41.1	40.3	38.9	37.9	36.3	36.6	37.0	38.0	38.9	36.9	38.4	36.4
Employed .....	608	629	627	587	559	528	511	556	550	542	504	526	497
Employment-population ratio <sup>2</sup> .....	27.8	29.2	29.1	27.3	26.0	24.6	23.9	26.0	25.8	25.2	23.6	24.8	23.5
Unemployed .....	247	256	240	250	254	250	272	234	259	295	284	288	272
Unemployment rate .....	28.9	28.9	27.7	29.9	31.2	32.1	34.7	29.6	32.0	35.2	36.0	35.4	35.4
Men .....	29.2	30.5	28.9	31.6	35.2	33.1	36.7	31.4	31.3	33.2	36.4	34.6	35.5
Women .....	28.5	27.3	26.4	28.1	27.1	31.1	32.7	27.6	32.7	37.5	35.6	36.1	35.2
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,119	14,159	14,198	14,238	14,277	14,317	14,356	14,396	14,435	14,474	14,514	14,553	14,593
Civilian labor force .....	9,440	9,565	9,600	9,627	9,618	9,638	9,665	9,632	9,580	9,500	9,569	9,675	9,578
Percent of population .....	66.9	67.6	67.6	67.6	67.4	67.3	67.3	66.9	66.4	65.6	65.9	66.5	65.6
Employed .....	8,694	8,826	8,843	8,883	8,919	8,875	8,904	8,809	8,793	8,683	8,676	8,779	8,664
Employment-population ratio <sup>2</sup> .....	61.6	62.3	62.3	62.4	62.5	62.0	62.0	61.2	60.9	60.0	59.8	60.3	59.4
Unemployed .....	746	739	757	744	699	763	761	823	787	817	893	896	914
Unemployment rate .....	7.9	7.7	7.9	7.7	7.3	7.9	7.9	8.5	8.2	8.6	9.3	9.3	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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>CHARACTERISTIC</b>													
Total .....	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918
Married men, spouse present .....	41,256	40,942	40,769	40,854	40,626	40,801	40,661	40,833	40,833	40,844	40,728	40,318	40,482
Married women, spouse present .....	29,727	29,676	29,742	29,987	29,828	29,862	29,869	29,797	29,789	29,713	29,776	29,599	29,680
Women who maintain families .....	6,368	6,324	6,348	6,390	6,432	6,376	6,372	6,376	6,354	6,341	6,367	6,388	6,384
<b>OCCUPATION</b>													
Managerial and professional specialty .....	30,587	30,514	30,318	30,490	30,735	30,758	30,913	30,572	30,714	30,732	30,777	30,699	31,093
Technical, sales, and administrative support .....	37,053	37,104	37,010	37,335	36,678	36,499	36,009	36,541	36,447	36,380	36,242	36,360	36,100
Service occupations .....	15,379	15,647	15,736	15,693	15,894	15,917	15,847	15,899	15,880	15,881	15,904	15,746	15,773
Precision production, craft, and repair .....	13,724	13,750	13,761	13,707	13,595	13,697	13,586	13,604	13,547	13,428	13,524	13,399	13,333
Operators, fabricators, and laborers .....	17,903	17,715	17,729	17,762	17,838	17,698	17,852	17,814	17,858	17,752	17,695	17,227	16,997
Farming, forestry, and fishing .....	3,314	3,413	3,328	3,423	3,513	3,384	3,448	3,449	3,376	3,360	3,436	3,437	3,499
<b>INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,617	1,637	1,647	1,693	1,685	1,665	1,705	1,752	1,714	1,681	1,671	1,603	1,629
Self-employed workers .....	1,389	1,446	1,430	1,463	1,479	1,382	1,384	1,293	1,350	1,366	1,473	1,396	1,448
Unpaid family workers .....	116	115	112	104	107	100	97	108	99	116	102	157	168
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	106,056	105,992	105,897	106,176	105,893	105,783	105,627	105,686	105,384	105,267	105,095	104,698	104,569
Government .....	17,656	17,732	17,800	18,050	17,832	17,785	17,798	17,597	17,694	17,833	17,640	17,680	17,792
Private industries .....	88,400	88,260	88,097	88,126	88,061	87,998	87,829	88,089	87,690	87,634	87,455	87,018	86,777
Private households .....	1,029	1,011	984	964	1,039	1,003	1,021	1,067	1,017	992	1,013	967	953
Other industries .....	87,371	87,249	87,113	87,162	87,022	86,995	86,808	87,022	86,673	86,642	86,442	86,051	85,824
Self-employed workers .....	8,655	8,809	8,713	8,765	8,756	8,725	8,846	8,809	8,859	8,800	8,896	8,738	8,876
Unpaid family workers .....	315	253	255	244	239	258	236	236	250	255	236	232	239
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
<b>All industries:</b>													
Part time for economic reasons .....	4,865	4,942	4,853	4,859	5,022	5,001	5,092	5,301	5,409	5,438	5,581	5,510	6,062
Slack work .....	2,318	2,420	2,406	2,443	2,501	2,570	2,491	2,658	2,663	2,786	2,928	2,908	3,252
Could only find part-time work .....	2,184	2,130	2,140	2,095	2,207	2,120	2,153	2,408	2,344	2,340	2,302	2,214	2,401
Voluntary part time .....	15,371	15,427	15,256	15,557	15,190	15,263	15,317	15,250	15,129	15,048	15,081	14,833	14,971
<b>Nonagricultural industries:</b>													
Part time for economic reasons .....	4,669	4,708	4,680	4,689	4,745	4,780	4,830	5,051	5,135	5,163	5,262	5,178	5,803
Slack work .....	2,183	2,252	2,246	2,306	2,297	2,399	2,290	2,482	2,467	2,625	2,742	2,692	3,067
Could only find part-time work .....	2,138	2,061	2,093	2,045	2,136	2,102	2,084	2,333	2,281	2,262	2,218	2,133	2,349
Voluntary part time .....	14,921	14,951	14,841	15,002	14,668	14,853	14,861	14,823	14,715	14,658	14,650	14,461	14,528

<sup>1</sup> Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1990												1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Total, 16 years and over .....	118,074	118,235	118,090	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	
16 to 24 years .....	19,240	19,380	19,163	19,061	18,934	18,732	18,439	18,684	18,577	18,518	18,572	18,442	18,274	
16 to 19 years .....	6,574	6,665	6,514	6,388	6,268	6,083	5,867	6,131	6,065	5,973	5,997	5,889	5,982	
16 to 17 years .....	2,499	2,519	2,438	2,363	2,316	2,215	2,158	2,246	2,212	2,225	2,224	2,215	2,360	
18 to 19 years .....	4,079	4,136	4,068	3,993	3,946	3,888	3,729	3,856	3,857	3,739	3,774	3,704	3,631	
20 to 24 years .....	12,666	12,715	12,649	12,673	12,666	12,649	12,572	12,553	12,512	12,545	12,575	12,554	12,292	
25 years and over .....	98,793	98,825	98,671	99,172	99,336	99,247	99,320	99,212	99,160	98,847	98,937	98,463	98,605	
25 to 54 years .....	83,913	83,980	84,004	84,256	84,366	84,336	84,328	84,322	84,325	84,075	84,070	83,717	83,866	
55 years and over .....	14,863	14,870	14,853	14,932	14,930	14,906	14,950	14,992	14,851	14,812	14,901	14,628	14,687	
Men, 16 years and over .....	64,580	64,807	64,536	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327	63,798	63,604	
16 to 24 years .....	10,059	10,062	10,006	9,969	9,866	9,778	9,613	9,760	9,712	9,695	9,758	9,594	9,483	
16 to 19 years .....	3,420	3,405	3,384	3,313	3,205	3,104	3,014	3,164	3,163	3,120	3,139	3,063	3,071	
16 to 17 years .....	1,302	1,293	1,260	1,227	1,184	1,136	1,089	1,170	1,163	1,179	1,172	1,205	1,215	
18 to 19 years .....	2,118	2,114	2,112	2,063	2,014	1,992	1,919	1,978	1,995	1,950	1,966	1,886	1,857	
20 to 24 years .....	6,639	6,657	6,622	6,656	6,661	6,674	6,599	6,596	6,549	6,575	6,619	6,530	6,412	
25 years and over .....	54,504	54,534	54,517	54,591	54,634	54,508	54,604	54,670	54,687	54,637	54,546	54,190	54,084	
25 to 54 years .....	46,037	46,083	46,038	46,094	46,102	46,022	46,040	46,153	46,219	46,137	46,035	45,819	45,742	
55 years and over .....	8,476	8,479	8,448	8,489	8,499	8,498	8,530	8,573	8,492	8,498	8,553	8,318	8,326	
Women, 16 years and over .....	53,494	53,628	53,554	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247	53,125	53,314	
16 to 24 years .....	9,181	9,318	9,157	9,092	9,068	8,954	8,826	8,924	8,885	8,823	8,814	8,848	8,791	
16 to 19 years .....	3,154	3,260	3,130	3,075	3,063	2,979	2,853	2,967	2,902	2,853	2,858	2,825	2,911	
16 to 17 years .....	1,197	1,226	1,178	1,156	1,132	1,079	1,069	1,076	1,049	1,046	1,052	1,010	1,145	
18 to 19 years .....	1,961	2,022	1,956	1,930	1,932	1,896	1,810	1,880	1,862	1,789	1,808	1,818	1,774	
20 to 24 years .....	6,027	6,058	6,027	6,017	6,005	5,973	5,957	5,963	5,970	5,956	5,963	6,023	5,881	
25 years and over .....	44,289	44,291	44,354	44,581	44,702	44,739	44,716	44,542	44,473	44,210	44,391	44,273	44,521	
25 to 54 years .....	37,876	37,897	37,966	38,162	38,264	38,314	38,288	38,169	38,106	37,938	38,035	37,898	38,124	
55 years and over .....	6,387	6,391	6,405	6,443	6,431	6,408	6,420	6,419	6,359	6,314	6,348	6,310	6,361	

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

(In thousands)

Sex and age	1990												1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Total, 16 years and over .....	6,579	6,563	6,891	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158	
16 to 24 years .....	2,320	2,310	2,422	2,358	2,238	2,308	2,382	2,426	2,463	2,428	2,463	2,617	2,682	
16 to 19 years .....	1,146	1,142	1,136	1,163	1,080	1,140	1,164	1,138	1,169	1,172	1,192	1,307	1,233	
16 to 17 years .....	516	522	517	575	460	474	501	506	508	507	524	541	480	
18 to 19 years .....	618	626	618	614	626	661	651	654	657	662	665	745	741	
20 to 24 years .....	1,174	1,168	1,286	1,195	1,158	1,168	1,218	1,268	1,294	1,256	1,271	1,310	1,449	
25 years and over .....	4,278	4,259	4,330	4,263	4,301	4,470	4,610	4,652	4,830	4,910	5,160	5,162	5,501	
25 to 54 years .....	3,777	3,766	3,848	3,814	3,825	3,988	4,039	4,136	4,105	4,403	4,664	4,618	4,940	
55 years and over .....	517	515	500	474	448	493	528	514	536	513	501	510	582	
Men, 16 years and over .....	3,562	3,563	3,662	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706	
16 to 24 years .....	1,247	1,262	1,346	1,277	1,255	1,266	1,268	1,319	1,325	1,335	1,363	1,461	1,520	
16 to 19 years .....	811	611	626	631	597	626	644	637	633	644	662	681	662	
16 to 17 years .....	270	274	281	303	239	259	284	273	263	280	295	278	287	
18 to 19 years .....	340	343	345	341	353	366	357	375	368	367	366	361	375	
20 to 24 years .....	636	651	720	646	658	640	624	682	692	691	701	780	858	
25 years and over .....	2,325	2,319	2,370	2,352	2,360	2,499	2,595	2,616	2,630	2,764	2,937	2,897	3,201	
25 to 54 years .....	2,022	2,016	2,083	2,079	2,036	2,195	2,230	2,284	2,299	2,448	2,625	2,535	2,847	
55 years and over .....	310	308	309	300	281	320	333	337	344	335	316	319	367	
Women, 16 years and over .....	3,017	3,000	3,029	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452	
16 to 24 years .....	1,073	1,048	1,076	1,081	983	1,042	1,114	1,107	1,138	1,093	1,100	1,156	1,162	
16 to 19 years .....	535	531	510	532	483	514	520	501	536	528	530	626	571	
16 to 17 years .....	246	248	236	272	221	215	217	233	245	227	229	263	193	
18 to 19 years .....	278	283	273	273	273	295	294	279	289	295	299	384	366	
20 to 24 years .....	538	517	566	549	500	528	594	606	602	565	570	530	591	
25 years and over .....	1,953	1,940	1,960	1,911	1,941	1,971	2,015	2,036	2,000	2,146	2,223	2,265	2,300	
25 to 54 years .....	1,755	1,750	1,765	1,735	1,789	1,791	1,809	1,852	1,806	1,955	2,039	2,083	2,092	
55 years and over .....	207	207	191	174	167	173	195	177	192	178	185	191	214	

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1990											1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total, 16 years and over .....	5.3	5.3	5.4	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5
16 to 24 years .....	10.8	10.7	11.2	11.0	10.6	11.0	11.4	11.5	11.7	11.6	11.7	12.4	12.8
16 to 19 years .....	14.8	14.6	14.8	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1
16 to 17 years .....	17.1	17.2	17.5	19.4	16.6	17.6	18.8	18.4	18.7	18.6	19.1	19.6	16.9
18 to 19 years .....	13.2	13.1	13.2	13.3	13.7	14.5	14.9	14.5	14.6	15.0	15.0	16.7	16.9
20 to 24 years .....	8.5	8.4	9.2	8.6	8.4	8.5	8.8	9.3	9.4	9.1	9.2	9.5	10.5
25 years and over .....	4.2	4.1	4.2	4.1	4.2	4.3	4.4	4.5	4.5	4.7	5.0	5.0	5.3
25 to 54 years .....	4.3	4.3	4.4	4.3	4.3	4.5	4.6	4.7	4.6	5.0	5.3	5.2	5.6
55 years and over .....	3.4	3.3	3.3	3.1	2.9	3.2	3.4	3.3	3.5	3.3	3.3	3.4	3.8
Men, 16 years and over .....	5.2	5.2	5.4	5.4	5.3	5.6	5.7	5.8	5.8	6.0	6.2	6.3	6.9
16 to 24 years .....	11.0	11.1	11.9	11.4	11.3	11.5	11.7	11.9	12.0	12.1	12.3	13.2	13.8
16 to 19 years .....	15.2	15.2	15.6	16.0	15.7	16.8	17.6	16.8	16.7	17.1	17.4	18.2	17.7
16 to 17 years .....	17.2	17.5	18.2	19.8	16.8	18.6	20.7	18.9	18.4	19.2	20.1	18.7	19.1
18 to 19 years .....	13.8	14.0	14.0	14.2	14.9	15.5	15.7	16.0	15.6	15.8	15.7	16.8	16.8
20 to 24 years .....	8.7	8.9	9.8	8.8	9.0	8.8	8.6	9.4	9.6	9.5	9.6	10.7	11.8
25 years and over .....	4.1	4.1	4.2	4.1	4.1	4.4	4.5	4.6	4.6	4.8	5.1	5.1	5.6
25 to 54 years .....	4.2	4.2	4.3	4.3	4.2	4.6	4.6	4.7	4.7	5.0	5.4	5.2	5.9
55 years and over .....	3.5	3.5	3.5	3.4	3.2	3.6	3.8	3.8	3.9	3.8	3.6	3.7	4.2
Women, 16 years and over .....	5.3	5.3	5.4	5.3	5.1	5.4	5.5	5.5	5.6	5.7	5.9	6.1	6.1
16 to 24 years .....	10.5	10.1	10.5	10.6	9.8	10.4	11.2	11.0	11.4	11.0	11.1	11.6	11.7
16 to 19 years .....	14.5	14.0	14.0	14.7	13.6	14.7	15.4	14.4	15.6	15.6	15.6	18.1	16.4
16 to 17 years .....	17.0	16.8	16.7	19.0	16.3	16.6	16.9	17.8	18.9	17.8	17.9	20.7	14.4
18 to 19 years .....	12.4	12.3	12.2	12.4	12.4	13.5	14.0	12.9	13.4	14.2	14.2	16.7	17.1
20 to 24 years .....	8.2	7.9	8.6	8.4	7.7	8.1	9.0	9.2	9.2	8.6	8.7	8.1	9.1
25 years and over .....	4.2	4.2	4.2	4.1	4.2	4.2	4.3	4.4	4.3	4.6	4.8	4.9	4.9
25 to 54 years .....	4.4	4.4	4.4	4.3	4.5	4.5	4.5	4.6	4.5	4.9	5.1	5.2	5.2
55 years and over .....	3.1	3.1	2.9	2.6	2.5	2.6	2.9	2.7	2.9	2.7	2.8	2.9	3.3

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1990											1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.3	5.3	5.4	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5
Men, 20 years and over .....	4.6	4.6	4.7	4.7	4.7	4.9	5.0	5.1	5.2	5.4	5.6	5.6	6.3
Women, 20 years and over .....	4.7	4.7	4.8	4.6	4.6	4.7	4.9	4.9	4.9	5.1	5.3	5.3	5.4
Both sexes, 16 to 19 years .....	14.8	14.6	14.8	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1
White .....	4.6	4.6	4.7	4.6	4.5	4.7	4.8	4.8	4.9	5.0	5.3	5.5	5.9
Black and other .....	9.4	9.5	9.3	9.5	9.6	10.3	10.4	10.8	10.6	11.0	11.1	10.7	10.7
Black .....	10.7	10.7	10.6	10.6	10.7	11.4	11.7	11.9	11.7	12.2	12.2	12.1	11.8
Hispanic origin .....	7.9	7.7	7.9	7.7	7.3	7.9	7.9	8.5	8.2	8.6	9.3	9.3	9.5
Married men, spouse present .....	3.1	3.2	3.2	3.3	3.2	3.3	3.5	3.5	3.5	3.7	3.8	4.0	4.3
Married women, spouse present .....	3.8	3.7	3.6	3.6	3.7	3.6	3.9	3.9	3.9	4.1	4.1	4.1	4.4
Women who maintain families .....	7.6	8.3	7.8	7.5	8.0	8.3	8.4	8.7	8.5	8.7	8.7	9.0	9.1
Full-time workers .....	5.0	4.9	5.1	4.9	4.9	5.1	5.3	5.4	5.5	5.7	5.8	6.0	6.4
Part-time workers .....	7.4	7.2	7.2	7.4	7.5	7.8	7.7	7.2	7.1	7.3	7.6	7.7	7.6
Unemployed 15 weeks and over <sup>1</sup> .....	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.6
Labor force time lost <sup>2</sup> .....	5.9	5.9	6.2	6.0	5.9	6.1	6.3	6.4	6.6	6.7	6.9	7.0	7.5
<b>OCCUPATION<sup>3</sup></b>													
Managerial and professional specialty .....	1.9	2.0	2.0	2.0	2.2	2.1	2.2	2.3	2.2	2.2	2.2	2.7	2.4
Technical, sales, and administrative support .....	4.1	3.8	4.0	3.8	4.1	4.1	4.3	4.3	4.4	4.6	4.8	4.5	5.0
Precision production, craft, and repair .....	5.3	5.2	5.5	5.4	5.2	5.7	6.2	6.5	6.5	6.9	7.0	7.3	7.6
Operators, fabricators, and laborers .....	8.1	8.5	8.7	8.3	8.1	8.2	8.3	8.2	8.9	9.4	9.6	10.0	11.6
Farming, forestry, and fishing .....	6.2	6.3	6.8	5.3	6.2	6.8	6.3	6.2	5.5	6.2	6.9	7.6	7.9
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.5	5.5	5.6	5.5	5.4	5.5	5.7	5.8	5.9	6.2	6.3	6.4	6.9
Goods-producing industries .....	6.5	6.5	6.8	6.7	6.2	6.7	6.9	7.1	7.3	7.9	8.1	8.2	9.1
Mining .....	4.7	5.3	4.5	3.7	4.0	4.5	4.7	3.8	4.1	4.7	5.8	7.5	6.0
Construction .....	9.2	10.0	10.5	11.3	9.8	10.5	11.2	12.0	13.0	13.3	14.0	14.5	15.5
Manufacturing .....	5.7	5.5	5.8	5.5	5.2	5.7	5.8	5.8	5.8	6.5	6.5	6.4	7.4
Durable goods .....	5.5	5.3	5.6	5.5	5.2	5.7	5.9	6.0	5.9	6.9	6.6	6.8	8.1
Nondurable goods .....	6.1	5.8	6.0	5.4	5.3	5.7	5.6	5.4	5.7	5.9	6.4	5.9	6.5
Service-producing industries .....	5.0	5.0	5.1	5.0	5.0	5.0	5.2	5.3	5.3	5.4	5.4	5.6	5.9
Transportation and public utilities .....	3.9	3.5	4.2	3.3	3.2	3.7	4.0	3.9	4.1	4.1	4.2	4.4	5.3
Wholesale and retail trade .....	6.1	6.2	6.2	6.2	6.3	6.1	6.3	6.6	6.7	6.7	6.6	7.0	7.4
Finance and service industries .....	4.4	4.5	4.5	4.4	4.5	4.5	4.7	4.7	4.5	4.7	4.8	4.9	5.0
Government workers .....	2.5	2.4	2.2	2.5	2.9	2.8	2.8	2.8	2.8	2.8	2.7	3.0	3.2
Agricultural wage and salary workers .....	9.5	10.1	10.5	8.1	9.8	10.1	9.5	9.3	8.5	9.8	12.3	11.9	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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>DURATION</b>													
Less than 5 weeks .....	3,157	3,183	3,185	3,078	3,100	3,142	3,275	3,087	3,139	3,277	3,280	3,410	3,473
5 to 14 weeks .....	2,070	2,074	2,146	2,194	2,085	2,166	2,077	2,452	2,391	2,334	2,518	2,490	2,736
15 weeks and over .....	1,374	1,370	1,417	1,404	1,436	1,508	1,566	1,605	1,591	1,727	1,739	1,829	1,975
15 to 26 weeks .....	737	732	742	776	777	607	822	861	893	938	940	981	1,053
27 weeks and over .....	637	638	675	628	659	701	746	744	698	789	799	848	921
Average (mean) duration, in weeks .....	11.7	11.9	12.1	11.6	12.0	12.1	12.3	12.4	12.0	12.4	12.4	12.4	12.8
Median duration, in weeks .....	5.2	5.0	5.0	5.3	5.2	5.2	5.3	6.1	5.9	5.9	5.9	5.9	6.1
<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 .....	47.8	48.0	47.2	46.1	46.8	46.1	47.3	43.2	44.1	44.7	43.5	44.1	42.4
5 to 14 weeks .....	31.4	31.3	31.8	32.9	31.5	31.8	30.0	34.3	33.6	31.8	33.4	32.2	33.4
15 weeks and over .....	20.8	20.7	21.0	21.0	21.7	22.1	22.7	22.5	22.3	23.5	23.1	23.7	24.1
15 to 26 weeks .....	11.2	11.0	11.0	11.6	11.7	11.8	11.9	12.1	12.5	12.8	12.5	12.7	12.9
27 weeks and over .....	9.7	9.6	10.0	9.4	10.0	10.3	10.8	10.4	9.8	10.8	10.6	11.0	11.3

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

(Numbers in thousands)

Reasons for unemployment	1990											1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,095	3,073	3,145	3,173	3,203	3,145	3,368	3,519	3,563	3,756	3,797	4,068	4,515
On layoff .....	957	944	984	960	947	977	993	1,111	1,056	1,136	1,150	1,131	1,485
Other job losers .....	2,138	2,129	2,161	2,193	2,256	2,188	2,395	2,408	2,507	2,620	2,647	2,938	3,031
Job leavers .....	1,012	1,019	1,159	1,017	999	1,020	989	954	981	996	1,024	899	989
Reentrants .....	1,815	1,850	1,794	1,828	1,839	1,920	1,872	1,952	1,911	1,926	2,128	2,044	1,994
New entrants .....	672	651	837	677	549	677	869	663	684	655	662	672	633
<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 .....	46.9	46.6	46.7	47.4	48.6	46.5	49.0	49.6	49.9	51.2	49.9	53.0	55.5
On layoff .....	14.5	14.3	14.6	14.6	14.4	14.4	14.4	15.7	14.8	15.5	15.1	14.7	18.3
Other job losers .....	32.4	32.3	32.1	32.8	34.2	32.1	34.6	34.0	35.1	35.7	34.8	38.2	37.3
Job leavers .....	15.3	15.5	17.2	15.2	15.2	15.1	14.3	13.5	13.7	13.6	13.5	11.7	12.2
Reentrants .....	27.5	28.1	26.6	27.3	27.9	28.4	27.1	27.5	26.8	26.3	28.0	26.6	24.5
New entrants .....	10.2	9.9	9.5	10.1	8.3	10.0	9.7	9.4	9.6	8.9	8.7	8.7	7.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.5	2.5	2.5	2.5	2.6	2.5	2.7	2.8	2.9	3.0	3.0	3.3	3.6
On layoff .....	.8	.8	.9	.8	.6	.8	.8	.8	.8	.8	.8	.7	.6
Other job losers .....	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.7	1.6	1.6
Job leavers .....	.5	.5	.5	.5	.4	.5	.5	.5	.5	.5	.5	.5	.5
Reentrants .....													
New entrants .....													

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonfarm payrolls by major industry, 1940 to date**

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,841	4,909	1,485	3,665	996	( <sup>1</sup> )	( <sup>1</sup> )
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,966	5,244	1,525	3,905	1,340	( <sup>1</sup> )	( <sup>1</sup> )
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,912	5,206	1,509	4,066	2,213	( <sup>1</sup> )	( <sup>1</sup> )
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,828	5,154	1,481	4,130	2,905	( <sup>1</sup> )	( <sup>1</sup> )
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,851	5,208	1,461	4,145	2,928	( <sup>1</sup> )	( <sup>1</sup> )
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,955	5,359	1,481	4,222	2,808	( <sup>1</sup> )	( <sup>1</sup> )
1946	41,652	36,056	17,248	862	1,883	14,703	24,404	4,061	2,298	6,077	1,675	4,697	2,254	( <sup>1</sup> )	( <sup>1</sup> )
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	( <sup>1</sup> )	( <sup>1</sup> )
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	( <sup>1</sup> )	( <sup>1</sup> )
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	( <sup>1</sup> )	( <sup>1</sup> )
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	( <sup>1</sup> )	( <sup>1</sup> )
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	( <sup>1</sup> )	( <sup>1</sup> )
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	( <sup>1</sup> )	( <sup>1</sup> )
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	( <sup>1</sup> )	( <sup>1</sup> )
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	( <sup>1</sup> )	( <sup>1</sup> )
1955	50,641	43,727	20,513	792	2,839	18,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,037	7,848	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,989	7,761	2,481	6,785	2,191	1,415	4,232
1959 <sup>2</sup>	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,092	8,035	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,153	8,238	2,628	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	2,754	7,982	2,340	1,868	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,258	8,520	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,347	8,812	2,911	8,660	2,348	1,856	5,392
1965	60,785	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,608	9,637	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,700	9,906	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,791	10,308	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,919	10,785	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	4,006	11,034	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,014	11,338	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,127	11,822	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,291	12,315	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,447	12,539	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,430	12,630	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,562	13,193	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,723	13,792	4,467	15,302	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,221	14,972	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,292	15,018	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,175	65,659	5,165	5,376	15,172	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,296	15,161	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,286	15,595	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,574	16,526	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,736	17,336	5,955	21,999	2,875	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,774	17,909	6,283	23,053	2,899	3,893	9,901
1987	102,200	85,190	24,708	717	4,987	19,024	77,492	5,372	5,865	18,462	6,547	24,235	2,943	3,967	10,100
1988	105,536	88,150	25,173	713	5,110	19,350	80,363	5,527	6,055	19,077	6,649	25,669	2,971	4,076	10,339
1989	108,413	90,644	25,326	700	5,200	19,426	83,087	5,648	6,271	19,580	6,724	27,096	2,988	4,175	10,606
1990	110,321	92,031	25,001	735	5,204	19,062	85,320	5,839	6,361	19,788	6,832	28,209	3,085	4,284	10,922
Monthly data, seasonally adjusted															
1990:															
February	109,958	91,917	25,339	727	5,368	19,244	84,619	5,804	6,357	19,758	6,817	27,842	3,005	4,239	10,797
March	110,122	91,963	25,259	729	5,313	19,217	84,863	5,808	6,361	19,764	6,821	27,950	3,089	4,249	10,821
April	110,177	91,922	25,180	734	5,256	19,190	84,997	5,809	6,363	19,778	6,823	27,969	3,151	4,252	10,852
May	110,617	92,120	25,191	738	5,286	19,167	85,426	5,833	6,369	19,795	6,838	28,094	3,346	4,262	10,889
June	110,829	92,282	25,162	744	5,270	19,148	85,667	5,846	6,383	19,822	6,844	28,225	3,338	4,296	10,913
July	110,740	92,300	25,105	745	5,229	19,131	85,635	5,841	6,374	19,851	6,842	28,287	3,164	4,298	10,978
August	110,613	92,320	25,013	735	5,194	19,084	85,600	5,846	6,376	19,846	6,852	28,387	3,045	4,305	10,943
September	110,612	92,306	24,931	736	5,176	19,019	85,681	5,870	6,370	19,844	6,851	28,440	2,999	4,309	10,998
October	110,432	92,112	24,777	733	5,093	18,951	85,655	5,870	6,355	19,792	6,843	28,475	2,983	4,323	11,014
November	110,165	91,840	24,511	738	5,029	18,744	85,654	5,866	6,343	19,739	6,833	28,548	2,961	4,323	11,041
December	110,004	91,701	24,416	740	4,983	18,693	85,588	5,882	6,331	19,670	6,829	28,573	2,943	4,325	11,035
1991:															
January <sup>p</sup>	109,771	91,491	24,184	737	4,833	18,614	85,587	5,884	6,297	19,687	6,820	28,619	2,928	4,333	11,019
February <sup>p</sup>	109,587	91,283	24,086	739	4,860	18,487	85,501	5,848	6,274	19,618	6,810	28,647	2,933	4,335	11,036

<sup>1</sup> Not available.  
<sup>2</sup> Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 (0.4 percent) in the nonfarm total for the March 1959 benchmark month.  
<sup>p</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Total</b> .....		110,321	108,150	110,826	108,306	108,367	-	-	-	-	-
<b>Total private</b> .....		92,031	90,167	92,212	90,039	89,762	74,559	72,876	74,707	72,598	72,337
<b>Mining</b> .....		735	712	741	726	723	529	508	535	519	517
Metal mining .....	10	60.8	59.1	62.4	61.5	-	48.0	47.0	48.7	48.0	-
Iron ores .....	101	7.8	8.1	8.5	8.2	-	6.2	6.6	6.4	6.1	-
Copper ores .....	102	15.1	14.7	15.4	15.5	-	12.3	11.9	12.6	12.7	-
Coal mining .....	12	154.6	152.1	152.7	151.1	-	125.1	123.0	123.8	122.1	-
Bituminous coal and lignite mining .....	122	144.1	142.0	142.3	140.7	-	116.6	114.8	115.4	113.8	-
Oil and gas extraction .....	13	408.4	397.3	418.2	413.3	411.9	271.6	261.7	281.6	275.5	-
Crude petroleum and natural gas .....	131	192.7	192.5	190.4	192.1	-	93.6	92.6	93.7	94.7	-
Oil and gas field services .....	138	211.8	200.6	223.8	217.1	-	175.0	165.8	184.9	177.8	-
Nonmetallic minerals, except fuels .....	14	111.4	103.0	107.6	100.2	-	84.3	76.2	80.4	73.3	-
Crushed and broken stone .....	142	40.8	37.2	39.4	35.6	-	31.6	28.0	30.0	26.0	-
Sand and gravel .....	144	34.9	30.9	33.1	30.1	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	16.5	16.6	16.4	16.4	-	-	-	-	-	-
<b>Construction</b> .....		5,204	4,884	4,913	4,461	4,389	4,043	3,744	3,768	3,332	3,270
General building contractors .....	15	1,314.9	1,284.1	1,240.7	1,155.2	1,130.8	950.3	919.0	887.5	806.9	-
Residential building construction .....	152	668.6	653.9	621.9	578.3	-	468.5	454.2	429.4	390.2	-
Operative builders .....	153	37.8	39.0	33.8	32.5	-	16.0	16.6	13.4	12.5	-
Nonresidential building construction .....	154	608.5	591.2	585.0	544.4	-	465.8	448.2	444.7	404.2	-
Heavy construction, except building .....	16	799.9	682.2	732.7	620.9	-	667.1	553.8	600.5	494.7	-
Highway and street construction .....	161	244.5	164.6	210.8	154.6	-	202.8	125.3	168.3	115.2	-
Heavy construction, except highway .....	162	555.3	517.6	521.9	466.3	-	464.4	428.5	432.2	379.5	-
Special trade contractors .....	17	3,089.3	2,917.5	2,939.6	2,684.4	-	2,425.4	2,271.3	2,279.6	2,030.4	-
Plumbing, heating, and air conditioning .....	171	649.2	646.3	635.0	614.2	-	476.7	474.5	463.4	442.4	-
Painting and paper hanging .....	172	172.0	158.5	158.5	142.8	-	142.8	130.1	129.2	114.0	-
Electrical work .....	173	563.3	551.2	562.0	540.6	-	436.7	425.2	432.7	410.3	-
Masonry, stonework, and plastering .....	174	510.9	479.8	473.3	420.6	-	438.7	410.7	401.8	350.8	-
Carpentry and floor work .....	175	187.7	195.6	166.7	155.8	-	141.6	150.3	122.4	111.8	-
Roofing, siding, and sheet metal work .....	176	214.4	200.0	209.3	178.4	-	170.8	157.7	165.1	135.5	-
<b>Manufacturing</b> .....		19,062	19,031	18,727	18,480	18,365	12,936	12,887	12,654	12,447	12,359
<b>Durable goods</b> .....		11,122	11,123	10,863	10,707	10,604	7,375	7,342	7,174	7,048	6,965
Lumber and wood products .....	24	739.1	736.6	705.3	688.6	674.3	608.3	606.2	577.3	562.7	549.8
Logging .....	241	86.7	85.6	82.0	79.4	-	71.6	69.9	67.0	64.8	-
Sawmills and planing mills .....	242	198.1	198.7	190.9	188.7	-	172.5	173.4	165.5	163.5	-
Sawmills and planing mills, general .....	2421	159.9	160.3	154.1	152.0	-	139.0	140.0	133.2	131.4	-
Hardwood dimension and flooring mills .....	2426	35.0	35.4	33.8	33.9	-	30.8	31.0	29.8	29.7	-
Millwork, plywood, and structural members .....	243	261.3	263.0	245.4	239.2	-	210.6	212.5	196.5	190.6	-
Millwork .....	2431	105.7	105.6	99.6	97.6	-	82.8	83.1	77.1	75.1	-
Wood kitchen cabinets .....	2434	72.1	72.4	69.4	67.6	-	57.4	57.6	55.4	53.6	-
Hardwood veneer and plywood .....	2435	23.3	23.6	21.8	21.7	-	20.1	20.4	18.7	18.7	-
Softwood veneer and plywood .....	2436	33.2	34.2	31.1	30.4	-	29.8	30.8	27.8	27.1	-
Wood containers .....	244	43.8	42.0	42.8	42.2	-	36.9	35.2	35.9	35.2	-
Wood buildings and mobile homes .....	245	63.0	60.5	61.0	57.6	-	47.2	45.0	45.3	42.9	-
Mobile homes .....	2451	43.4	40.9	42.8	40.9	-	35.0	32.9	34.3	32.8	-
Miscellaneous wood products .....	249	86.0	86.8	83.2	81.5	-	69.5	70.2	67.1	65.7	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	511.0	519.5	498.1	492.3	482.7	403.8	412.5	390.6	386.1	377.8
Household furniture .....	251	291.8	298.7	283.8	281.1	-	243.8	251.0	235.7	233.3	-
Wood household furniture .....	2511	127.5	131.6	124.4	123.1	-	109.8	113.9	106.5	105.3	-
Upholstered household furniture .....	2512	99.6	99.3	97.6	96.7	-	83.1	83.1	81.0	79.9	-
Metal household furniture .....	2514	23.3	25.1	22.9	22.7	-	18.5	20.3	18.1	18.1	-
Mattresses and bedspings .....	2515	28.3	28.3	26.8	26.9	-	21.6	21.6	20.1	20.4	-
Office furniture .....	252	68.8	70.7	68.1	67.5	-	51.2	52.6	50.4	50.2	-
Public building and related furniture .....	253	31.4	32.1	29.9	29.3	-	24.3	25.1	23.0	22.4	-
Partitions and fixtures .....	254	82.6	81.0	81.0	79.9	-	59.6	58.5	57.9	57.2	-
Miscellaneous furniture and fixtures .....	259	36.5	37.0	35.3	34.5	-	24.9	25.3	23.6	23.0	-
Stone, clay, and glass products .....	32	553.9	547.7	532.7	510.8	506.8	431.0	424.6	412.9	392.2	389.1
Flat glass .....	321	16.3	16.5	16.2	15.5	-	12.9	13.1	12.8	12.2	-
Glass and glassware, pressed or blown .....	322	84.4	85.2	82.1	81.5	-	72.8	73.4	70.7	70.2	-
Glass containers .....	3221	42.0	42.0	41.0	40.6	-	38.0	38.0	37.1	36.6	-
Pressed and blown glass, nec .....	3229	42.5	43.2	41.1	40.9	-	34.8	35.4	33.6	33.6	-
Products of purchased glass .....	323	55.1	56.1	53.7	51.3	-	42.1	43.1	40.9	38.7	-
Cement, hydraulic .....	324	18.9	18.4	18.8	18.7	-	14.5	14.0	14.4	14.2	-
Structural clay products .....	325	36.2	36.0	33.8	32.2	-	27.9	27.5	25.9	24.4	-
Pottery and related products .....	326	39.4	40.5	37.9	37.3	-	31.1	32.0	29.9	29.2	-
Concrete, gypsum, and plaster products .....	327	207.8	199.8	196.9	183.4	-	158.6	151.1	149.1	136.3	-
Concrete block and brick .....	3271	19.1	18.6	17.9	17.2	-	12.4	12.0	11.4	10.8	-
Concrete products, nec .....	3272	70.5	70.0	66.7	63.9	-	53.0	52.5	49.7	47.3	-
Ready-mixed concrete .....	3273	99.3	92.1	94.3	84.3	-	78.7	71.9	74.1	64.3	-
Misc. nonmetallic mineral products .....	329	81.7	82.3	79.3	78.0	-	60.5	60.6	58.7	57.6	-
Abrasive products .....	3291	21.4	21.8	20.9	20.8	-	15.1	15.4	15.0	15.0	-
Asbestos products .....	3292	7.2	7.2	6.9	6.7	-	5.4	5.4	5.1	5.0	-
Mineral wool .....	3296	24.0	24.4	23.0	22.4	-	-	-	-	-	-
Primary metal industries .....	33	752.2	753.2	739.9	736.8	727.4	571.0	571.2	560.0	556.9	546.6
Blast furnaces and basic steel products .....	331	270.7	272.3	268.9	266.8	262.3	207.6	209.2	205.9	204.0	198.9
Blast furnaces and steel mills .....	3312	203.6	205.7	202.2	201.4	-	157.8	159.6	156.3	155.6	-
Steel pipe and tubes .....	3317	24.7	24.3	24.5	24.1	-	18.4	18.2	18.2	17.9	-
Iron and steel foundries .....	332	133.3	131.1	131.3	131.1	-	106.1	103.9	104.5	104.2	-
Gray and ductile iron foundries .....	3321	81.8	79.0	79.9	80.0	-	66.5	63.7	64.9	64.8	-
Malleable iron foundries .....	3322	8.7	8.6	8.6	8.5	-	6.5	6.5	6.3	6.4	-
Steel foundries, nec .....	3325	28.0	28.3	27.7	27.6	-	21.8	22.3	21.7	21.5	-
Primary nonferrous metals .....	333	45.5	45.6	44.5	45.2	-	33.5	33.7	32.7	33.5	-
Primary aluminum .....	3334	25.5	25.8	24.6	25.4	-	19.4	19.6	18.8	19.6	-
Nonferrous rolling and drawing .....	335	174.2	174.6	170.4	170.1	-	125.2	124.6	122.0	121.4	-
Copper rolling and drawing .....	3351	23.0	23.6	22.2	22.3	-	17.6	18.0	17.0	17.0	-
Aluminum sheet, plate, and foil .....	3353	28.5	28.6	28.6	28.5	-	19.2	19.3	19.0	19.1	-
Nonferrous wire drawing and insulating .....	3357	73.0	72.3	71.5	71.5	-	53.3	52.0	52.0	51.8	-
Nonferrous foundries (castings) .....	336	84.6	84.7	82.2	81.6	-	66.5	66.9	64.1	63.3	-
Aluminum foundries .....	3365	23.7	24.0	23.5	22.9	-	18.7	18.9	18.5	17.8	-
Fabricated metal products .....	34	1,410.1	1,402.3	1,389.4	1,367.9	1,348.5	1,038.8	1,029.2	1,023.1	1,003.3	986.1
Metal cans and shipping containers .....	341	51.9	51.8	50.3	49.6	-	44.5	44.7	43.2	42.6	-
Metal cans .....	3411	41.8	41.5	40.7	40.1	-	36.3	36.2	35.5	35.0	-
Cutlery, handtools, and hardware .....	342	127.7	127.3	124.4	123.8	-	93.5	92.6	90.8	90.8	-
Hand and edge tools, and blades and handsaws .....	3423,5	44.3	45.1	43.4	43.0	-	32.5	33.3	31.8	31.6	-
Hardware, nec .....	3429	71.5	70.2	69.4	69.3	-	52.9	51.1	51.1	51.3	-
Plumbing and heating, except electric .....	343	62.5	63.0	62.0	60.2	-	44.8	45.3	44.5	42.8	-
Plumbing fixture fittings and trim .....	3432	26.6	27.0	25.6	25.5	-	19.8	20.0	19.2	19.2	-
Heating equipment, except electric .....	3433	22.2	22.5	22.5	21.4	-	14.8	15.1	15.0	13.9	-
Fabricated structural metal products .....	344	424.4	424.0	420.2	412.8	-	300.8	300.4	297.4	290.7	-
Fabricated structural metal .....	3441	77.0	77.6	76.4	75.2	-	55.2	55.6	54.6	53.7	-
Metal doors, sash, and trim .....	3442	75.1	73.2	72.8	70.9	-	54.3	52.7	52.2	50.2	-
Fabricated plate work (boiler shops) .....	3443	108.7	108.1	109.7	108.7	-	72.9	72.6	73.7	73.0	-
Sheet metal work .....	3444	93.7	94.7	92.1	90.4	-	70.5	71.0	69.3	67.7	-
Architectural metal work .....	3446	28.5	28.7	28.4	27.7	-	20.2	20.4	20.1	19.4	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Screw machine products, bolts, etc .....	345	96.7	98.6	94.3	93.3	-	74.1	75.7	72.0	71.2	-
Screw machine products .....	3451	46.6	47.2	45.5	44.9	-	37.9	38.4	37.0	36.4	-
Bolts, nuts, rivets, and washers .....	3452	50.1	51.4	48.8	48.4	-	36.2	37.3	35.0	34.8	-
Metal forgings and stampings .....	346	222.7	208.5	220.6	214.5	-	176.1	161.8	174.4	167.9	-
Iron and steel forgings .....	3462	31.9	32.0	31.8	32.1	-	24.4	24.5	24.3	24.5	-
Automotive stampings .....	3465	99.7	85.4	98.0	92.4	-	83.0	68.7	81.7	75.8	-
Metal stampings, nec .....	3469	78.8	78.5	78.5	77.9	-	59.5	59.4	59.2	58.6	-
Metal services, nec .....	347	120.0	120.5	118.0	116.9	-	93.8	94.8	91.9	90.8	-
Plating and polishing .....	3471	76.6	77.2	75.2	74.3	-	60.2	61.3	58.8	58.0	-
Metal coating and allied services .....	3479	43.4	43.3	42.8	42.6	-	33.6	33.5	33.1	32.8	-
Ordnance and accessories, nec .....	348	68.9	72.1	66.9	66.5	-	43.0	43.9	42.3	42.3	-
Ammunition, except for small arms, nec .....	3483	39.5	41.9	38.7	38.4	-	22.0	22.6	22.1	22.0	-
Miscellaneous fabricated metal products .....	349	235.2	236.5	232.7	230.3	-	168.3	170.0	166.6	164.2	-
Valves and pipe fittings, nec .....	3494	29.3	29.7	28.9	29.0	-	19.0	19.0	19.4	19.6	-
Misc. fabricated wire products .....	3496	54.1	54.5	53.4	52.4	-	40.8	41.4	40.0	39.1	-
Industrial machinery and equipment .....	35	2,099.6	2,132.3	2,064.2	2,054.6	2,044.4	1,262.6	1,287.7	1,235.9	1,229.7	1,219.6
Engines and turbines .....	351	92.2	91.0	92.5	93.6	-	59.9	59.1	60.2	60.9	-
Turbines and turbine generator sets .....	3511	27.8	26.4	28.9	29.0	-	16.2	15.3	17.1	17.0	-
Internal combustion engines, nec .....	3519	64.4	64.6	63.6	64.6	-	43.7	43.8	43.1	43.9	-
Farm and garden machinery .....	352	112.4	112.7	111.9	111.6	-	82.6	83.9	82.0	81.9	-
Farm machinery and equipment .....	3523	81.7	80.5	80.2	79.5	-	58.5	57.5	57.3	56.6	-
Construction and related machinery .....	353	224.6	224.9	222.1	220.4	-	138.2	138.8	135.9	135.0	-
Construction machinery .....	3531	82.8	84.2	78.6	76.9	-	51.3	53.3	47.4	46.6	-
Mining machinery .....	3532	17.1	16.8	16.9	16.9	-	10.6	10.4	10.5	10.4	-
Oil and gas field machinery .....	3533	41.4	39.4	43.9	44.7	-	25.2	23.0	27.6	28.3	-
Conveyors and conveying equipment .....	3535	34.4	35.0	34.7	34.6	-	19.1	19.2	19.6	19.4	-
Industrial trucks and tractors .....	3537	28.6	29.0	27.7	27.6	-	19.3	19.8	18.5	18.4	-
Metalworking machinery .....	354	330.3	336.8	325.0	323.5	-	236.0	240.9	232.1	230.5	-
Machine tools, metal cutting types .....	3541	47.2	49.0	45.4	45.2	-	30.3	31.6	29.0	28.6	-
Machine tools, metal forming types .....	3542	18.5	18.8	18.0	18.0	-	11.6	11.9	11.2	11.2	-
Special dies, tools, jigs, and fixtures .....	3544	147.3	149.5	146.0	145.4	-	114.1	115.8	113.0	112.5	-
Machine tool accessories .....	3545	55.4	57.4	54.0	53.5	-	39.0	40.5	38.0	37.5	-
Power driven handtools .....	3546	21.0	21.2	20.8	20.6	-	14.5	14.7	14.4	14.3	-
Special industry machinery .....	355	157.8	160.3	154.3	153.0	-	93.3	95.6	90.6	89.4	-
Textile machinery .....	3552	18.8	19.2	18.3	18.2	-	12.4	12.6	12.1	11.9	-
Printing trades machinery .....	3555	23.5	24.0	22.8	22.6	-	12.9	13.3	12.0	11.9	-
Food products machinery .....	3556	23.7	24.2	22.9	22.6	-	14.3	14.7	13.7	13.5	-
General industrial machinery .....	356	242.9	244.0	241.6	241.2	-	155.4	157.3	154.0	153.4	-
Pumps and pumping equipment .....	3561	29.0	29.1	28.9	28.8	-	16.5	16.7	16.6	16.4	-
Ball and roller bearings .....	3562	43.5	43.3	43.5	43.4	-	33.7	33.7	33.8	33.6	-
Air and gas compressors .....	3563	24.6	24.2	24.5	24.6	-	13.7	13.6	13.4	13.4	-
Blowers and fans .....	3564	31.6	31.1	31.4	31.3	-	21.3	21.0	21.1	21.1	-
Speed changers, drives, and gears .....	3566	16.4	16.5	16.4	16.2	-	11.6	11.8	11.5	11.4	-
Power transmission equipment, nec .....	3568	18.7	19.2	18.4	18.4	-	12.7	13.2	12.3	12.2	-
Computer and office equipment .....	357	446.3	458.6	439.3	434.3	-	140.8	145.8	138.5	137.1	-
Electronic computers .....	3571	276.0	284.4	270.3	266.5	-	70.6	75.0	68.4	67.5	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	68.3	70.8	67.1	67.3	-	21.6	22.0	22.5	23.2	-
Refrigeration and service machinery .....	358	180.4	186.5	169.5	170.9	-	127.1	132.7	117.3	118.8	-
Refrigeration and heating equipment .....	3585	126.9	131.4	117.5	119.2	-	92.4	96.5	84.1	86.1	-
Misc. industrial and commercial machinery .....	359	312.7	317.5	308.0	306.1	-	229.3	233.6	225.3	222.7	-
Carburetors, pistons, rings, valves .....	3592	23.2	23.4	22.6	22.3	-	18.8	18.8	18.3	18.1	-
Scales, balances, and industrial machinery, nec .....	3596,9	240.6	243.8	237.7	236.4	-	182.3	185.6	179.3	177.4	-
Electronic and other electrical equipment .....	36	1,691.8	1,721.4	1,652.0	1,638.2	1,623.9	1,067.5	1,089.7	1,037.9	1,028.5	1,019.8
Electric distribution equipment .....	361	95.8	97.6	93.9	93.7	-	66.9	69.0	65.4	65.2	-
Transformers, except electronic .....	3612	48.2	49.4	47.0	47.0	-	34.1	35.4	33.3	33.0	-
Switchgear and switchboard apparatus .....	3613	47.6	48.2	46.9	46.7	-	32.8	33.6	32.1	32.2	-
Electrical industrial apparatus .....	362	170.8	174.9	165.9	165.3	-	119.9	123.7	115.9	115.1	-
Motors and generators .....	3621	84.8	87.8	81.2	81.1	-	66.0	69.1	62.4	62.2	-
Relays and industrial controls .....	3625	66.3	67.4	65.1	64.6	-	40.3	41.0	39.9	39.5	-
Household appliances .....	363	128.7	130.0	124.7	119.7	-	103.1	104.5	99.3	94.9	-
Household refrigerators and freezers .....	3632	27.5	27.0	26.3	25.5	-	22.6	21.6	21.4	20.6	-
Household laundry equipment .....	3633	21.0	21.1	20.1	19.0	-	16.7	17.4	15.8	15.1	-
Electric housewares and fans .....	3634	35.6	35.8	35.8	33.7	-	27.4	27.9	27.5	25.6	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment .....	364	188.5	191.3	182.5	181.3	-	136.0	138.5	130.2	129.7	-
Electric lamps .....	3641	24.9	25.2	23.7	24.0	-	21.2	21.5	20.1	20.3	-
Current-carrying wiring devices .....	3643	73.2	74.1	71.7	71.0	-	47.9	48.5	47.2	46.6	-
Noncurrent-carrying wiring devices .....	3644	16.0	16.5	15.6	15.5	-	11.7	12.4	11.2	11.1	-
Residential lighting fixtures .....	3645	24.6	25.4	23.8	22.8	-	18.1	18.9	17.2	16.6	-
Household audio and video equipment .....	365	86.4	86.4	84.7	83.3	-	59.8	60.5	57.5	56.4	-
Household audio and video equipment .....	3651	64.6	64.8	63.9	62.9	-	42.9	43.9	41.3	40.5	-
Communications equipment .....	366	258.9	266.7	251.4	250.6	-	130.9	136.0	126.1	125.2	-
Telephone and telegraph apparatus .....	3661	131.4	135.9	127.7	126.9	-	71.7	76.4	67.6	67.1	-
Electronic components and accessories .....	367	596.9	607.4	584.7	579.2	-	337.0	342.2	332.3	329.5	-
Electron tubes .....	3671	34.0	35.1	33.1	32.7	-	22.3	23.2	21.7	21.3	-
Semiconductors and related devices .....	3674	243.9	246.9	239.0	237.3	-	94.7	94.6	94.4	94.0	-
Electronic components, nec .....	3679	145.5	149.0	141.5	140.0	-	91.5	94.2	89.6	89.4	-
Misc. electrical equipment and supplies .....	369	166.0	167.1	164.2	165.1	-	114.0	115.3	111.2	112.5	-
Storage batteries .....	3691	29.3	30.2	29.8	29.4	-	22.6	23.6	22.5	22.0	-
Engine electrical equipment .....	3694	67.8	67.1	64.7	66.7	-	51.1	50.4	48.3	50.5	-
Transportation equipment .....	37	1,982.1	1,918.8	1,919.1	1,871.1	1,850.9	1,219.0	1,142.0	1,179.0	1,141.8	1,129.0
Motor vehicles and equipment .....	371	800.9	720.3	770.5	734.8	732.1	609.8	529.1	584.1	553.0	549.3
Motor vehicles and car bodies .....	3711	310.8	255.5	295.8	265.9	-	224.7	167.2	212.4	187.2	-
Truck and bus bodies .....	3713	41.2	38.6	38.0	38.5	-	32.1	30.2	28.9	29.2	-
Motor vehicle parts and accessories .....	3714	402.7	378.7	396.2	390.1	-	317.8	295.1	312.7	306.6	-
Truck trailers .....	3715	27.4	27.3	25.6	25.0	-	21.4	21.4	19.5	19.0	-
Aircraft and parts .....	372	709.2	723.0	691.7	685.1	-	342.4	346.6	337.2	334.9	-
Aircraft .....	3721	379.0	389.4	364.5	360.8	-	163.2	166.9	157.8	156.3	-
Aircraft engines and engine parts .....	3724	156.0	157.2	155.4	154.6	-	79.4	79.5	80.3	80.6	-
Aircraft parts and equipment, nec .....	3728	174.2	176.4	171.8	169.7	-	99.8	100.2	99.1	98.0	-
Ship and boat building and repairing .....	373	189.3	189.2	183.4	180.8	-	143.4	141.3	140.4	138.3	-
Ship building and repairing .....	3731	129.5	125.9	131.5	130.1	-	94.3	89.7	97.6	96.5	-
Boat building and repairing .....	3732	59.8	63.3	51.9	50.7	-	49.1	51.6	42.8	41.8	-
Railroad equipment .....	374	34.4	34.1	34.4	33.8	-	25.5	25.4	25.5	24.8	-
Guided missiles, space vehicles, and parts .....	376	188.2	192.9	183.2	181.9	-	57.8	60.0	55.7	55.3	-
Guided missiles and space vehicles .....	3761	135.8	138.0	133.2	131.8	-	37.7	38.4	37.2	36.7	-
Miscellaneous transportation equipment .....	379	46.4	45.7	43.1	41.7	-	30.2	29.4	27.3	26.6	-
Travel trailers and campers .....	3792	18.0	17.0	16.6	16.1	-	13.9	13.0	12.7	12.4	-
Instruments and related products .....	38	997.0	1,010.0	984.5	975.0	971.4	493.4	501.9	485.9	480.5	478.4
Search and navigation equipment .....	381	281.8	289.2	274.3	269.1	-	93.0	97.5	88.8	87.8	-
Measuring and controlling devices .....	382	320.8	327.7	314.8	313.0	-	178.4	182.6	174.0	172.7	-
Environmental controls .....	3822	48.2	49.8	47.0	46.4	-	32.6	33.4	32.0	31.4	-
Process control instruments .....	3823	65.4	65.5	64.5	64.0	-	34.0	34.6	33.3	33.0	-
Instruments to measure electricity .....	3825	95.3	98.7	92.2	91.8	-	48.0	49.6	46.4	46.7	-
Medical instruments and supplies .....	384	242.8	240.5	245.2	244.6	-	142.6	140.9	144.4	142.4	-
Surgical and medical instruments .....	3841	100.7	99.5	102.2	101.5	-	58.4	57.3	60.5	59.4	-
Surgical appliances and supplies .....	3842	92.4	90.9	93.9	94.1	-	58.3	57.1	59.8	59.9	-
Ophthalmic goods .....	385	39.0	39.5	37.9	36.9	-	26.9	27.0	26.7	25.7	-
Photographic equipment and supplies .....	386	101.6	102.0	101.4	101.1	-	44.1	45.7	43.6	43.9	-
Watches, clocks, watchcases, and parts .....	387	11.0	11.1	10.9	10.3	-	8.4	8.2	8.4	8.0	-
Miscellaneous manufacturing industries .....	39	385.0	380.7	377.5	372.1	373.7	279.3	277.0	271.4	266.5	268.6
Jewelry, silverware, and plated ware .....	391	53.1	52.7	53.6	51.9	-	37.4	37.0	38.0	36.5	-
Jewelry, precious metal .....	3911	38.7	38.5	39.1	37.9	-	27.0	26.7	27.6	26.6	-
Musical instruments .....	393	11.9	12.1	11.9	11.8	-	9.7	9.9	9.6	9.5	-
Toys and sporting goods .....	394	104.9	102.9	102.4	101.9	-	76.4	74.4	74.4	74.0	-
Dolls, games, toys, and children's vehicles .....	3942,4	44.6	42.9	43.0	42.7	-	31.5	29.7	30.2	30.0	-
Sporting and athletic goods, nec .....	3949	60.3	60.0	59.4	59.2	-	45.0	44.7	44.2	44.0	-
Pens, pencils, office, and art supplies .....	395	34.5	35.0	33.4	33.4	-	24.2	24.5	23.3	23.2	-
Costume jewelry and notions .....	396	38.3	37.1	36.9	35.9	-	29.1	29.5	26.9	26.0	-
Costume jewelry .....	3961	24.8	23.1	24.0	23.2	-	18.6	18.5	17.0	16.3	-
Miscellaneous manufactures .....	399	142.2	140.9	139.3	137.2	-	102.5	101.7	99.2	97.3	-
Signs and advertising specialties .....	3993	57.4	58.4	55.7	54.9	-	40.1	41.0	38.6	37.9	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods</b> .....		7,940	7,908	7,864	7,773	7,761	5,561	5,545	5,480	5,399	5,394
Food and kindred products .....	20	1,649.7	1,606.3	1,644.1	1,612.7	1,611.0	1,185.9	1,142.7	1,182.8	1,153.5	1,155.2
Meat products .....	201	418.1	411.0	427.0	422.9	-	355.8	349.2	364.9	360.9	-
Meat packing plants .....	2011	139.5	139.0	142.5	141.7	-	117.7	117.1	121.6	120.6	-
Sausages and other prepared meats .....	2013	84.6	83.5	85.5	83.7	-	63.1	61.5	64.4	62.8	-
Poultry slaughtering and processing .....	2015	194.1	188.5	199.0	197.5	-	175.0	170.6	178.9	177.5	-
Dairy products .....	202	153.9	152.5	151.8	150.1	-	94.2	92.3	92.8	91.6	-
Cheese, natural and processed .....	2022	41.5	41.5	41.6	40.5	-	32.0	31.8	32.2	31.3	-
Fluid milk .....	2026	73.9	73.8	73.3	72.9	-	36.8	36.6	36.5	36.2	-
Preserved fruits and vegetables .....	203	245.5	216.4	220.3	211.1	-	204.6	175.0	181.4	172.2	-
Canned specialties .....	2032	24.1	25.4	23.3	23.3	-	18.8	19.1	18.9	19.0	-
Canned fruits and vegetables .....	2033	86.7	66.2	68.6	63.9	-	74.4	54.1	57.0	52.5	-
Frozen fruits and vegetables .....	2037	52.8	46.3	48.0	44.0	-	46.0	40.0	41.5	37.4	-
Grain mill products .....	204	127.7	127.9	128.9	128.1	-	88.7	88.1	90.5	89.6	-
Flour and other grain mill products .....	2041	22.4	22.1	22.9	22.8	-	14.5	14.9	14.9	14.9	-
Prepared feeds, nec .....	2048	44.0	44.7	43.9	44.0	-	27.8	27.9	28.2	28.2	-
Bakery products .....	205	210.1	210.5	210.8	206.8	-	131.8	130.4	133.0	129.9	-
Bread, cake, and related products .....	2051	152.3	153.6	151.2	148.4	-	87.2	86.6	87.1	84.8	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	57.8	56.9	59.6	58.4	-	44.6	43.8	45.9	45.1	-
Sugar and confectionery products .....	206	107.7	108.7	119.5	114.3	-	84.4	85.9	94.3	89.4	-
Raw cane sugar .....	2061	6.5	7.4	8.1	7.5	-	4.7	5.5	6.2	5.6	-
Cane sugar refining .....	2062	5.3	5.2	5.3	5.3	-	4.0	4.0	3.9	3.9	-
Beet sugar .....	2063	9.7	10.9	12.0	11.9	-	8.1	9.5	10.2	10.2	-
Candy and other confectionery products .....	2064	55.3	54.5	62.6	58.4	-	45.4	45.1	51.3	47.0	-
Fats and oils .....	207	30.1	30.7	29.7	29.7	-	21.6	22.6	21.0	20.9	-
Beverages .....	208	185.4	182.8	183.3	180.8	-	77.7	76.4	77.1	75.1	-
Malt beverages .....	2082	40.3	39.9	40.2	39.2	-	24.0	23.8	23.6	23.2	-
Bottled and canned soft drinks .....	2086	104.3	102.6	102.6	102.3	-	34.0	33.0	33.8	33.4	-
Misc. food and kindred products .....	209	171.3	165.8	172.8	168.9	-	127.2	122.8	127.8	123.9	-
Tobacco products .....	21	46.6	49.7	49.8	48.8	47.5	34.5	38.0	37.6	36.5	35.1
Cigarettes .....	211	34.1	34.1	34.1	33.9	-	25.4	25.6	25.3	24.9	-
Textile mill products .....	22	700.0	713.1	679.9	674.1	667.1	601.0	613.7	581.7	577.7	571.4
Broadwoven fabric mills, cotton .....	221	91.0	94.9	89.5	88.6	-	81.4	85.4	79.6	79.3	-
Broadwoven fabric mills, synthetics .....	222	81.7	83.2	80.8	79.4	-	71.8	73.5	70.8	69.5	-
Broadwoven fabric mills, wool .....	223	17.7	17.9	17.1	17.3	-	14.2	14.4	13.7	14.1	-
Narrow fabric mills .....	224	24.2	24.4	24.3	24.0	-	20.4	20.5	20.5	20.4	-
Knitting mills .....	225	207.0	210.3	197.3	197.6	-	180.6	183.9	171.5	171.8	-
Women's hosiery, except socks .....	2251	32.6	32.5	32.2	32.0	-	29.0	29.0	28.8	28.6	-
Hosiery, nec .....	2252	38.6	39.6	37.5	37.4	-	34.6	35.9	33.3	33.1	-
Knit outerwear mills .....	2253	62.5	63.3	56.5	57.7	-	54.7	55.7	48.9	50.3	-
Knit underwear mills .....	2254	27.4	28.5	26.7	25.9	-	23.4	24.0	23.0	22.2	-
Weft knit fabric mills .....	2257	27.1	27.5	26.0	26.1	-	23.5	23.9	22.4	22.5	-
Textile finishing, except wool .....	226	60.8	61.4	59.9	59.2	-	49.3	49.7	48.6	48.1	-
Finishing plants, cotton .....	2261	25.6	25.9	25.4	25.0	-	20.6	20.7	20.6	20.2	-
Finishing plants, synthetics .....	2262	23.2	23.4	23.0	22.7	-	18.6	18.8	18.4	18.2	-
Carpets and rugs .....	227	65.1	65.8	64.0	62.7	-	53.3	53.9	52.4	51.5	-
Yarn and thread mills .....	228	101.6	104.3	96.8	95.8	-	90.9	93.4	86.3	85.5	-
Yarn spinning mills .....	2281	81.1	82.9	77.2	76.6	-	72.8	74.3	69.0	68.7	-
Throwing and winding mills .....	2282	14.3	14.9	13.7	13.4	-	12.6	13.2	12.0	11.7	-
Miscellaneous textile goods .....	229	51.0	50.9	50.2	49.5	-	39.0	39.0	38.3	37.5	-
Apparel and other textile products .....	23	1,028.4	1,045.2	1,002.5	988.5	995.1	862.0	878.9	837.2	821.8	829.4
Men's and boys' suits and coats .....	231	49.2	51.7	49.7	48.7	-	41.5	44.0	41.7	41.2	-
Men's and boys' furnishings .....	232	270.2	281.0	261.4	260.2	-	231.9	242.4	223.9	222.1	-
Men's and boys' shirts .....	2321	62.8	66.5	59.3	58.8	-	53.2	56.5	50.8	49.8	-
Men's and boys' trousers and slacks .....	2325	82.8	86.4	81.6	81.5	-	71.8	75.6	70.4	70.1	-
Men's and boys' work clothing .....	2326	44.6	45.2	44.2	43.5	-	38.6	39.2	38.3	37.5	-
Women's and misses' outerwear .....	233	325.7	328.8	319.8	315.5	-	272.1	274.5	266.5	261.4	-
Women's and misses' blouses and shirts .....	2331	39.6	40.6	38.3	38.4	-	32.4	33.2	31.1	31.2	-
Women's, juniors', and misses' dresses .....	2335	71.4	73.1	66.9	68.1	-	58.8	60.5	54.6	55.3	-
Women's and misses' suits and coats .....	2337	38.6	34.3	38.1	34.1	-	32.0	28.1	31.4	27.6	-
Women's and misses' outerwear, nec .....	2339	176.1	180.8	176.5	174.9	-	148.9	152.7	149.4	147.3	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	61.7	63.2	60.6	60.3	-	50.7	52.4	49.3	48.9	-
Women's and children's underwear .....	2341	49.2	50.1	48.3	48.3	-	42.3	43.4	40.9	41.0	-
Brassieres, girdles, and allied garments .....	2342	12.5	13.1	12.3	12.0	-	8.4	9.0	8.4	7.9	-
Girls' and children's outerwear .....	236	56.9	59.2	55.8	56.1	-	47.9	49.9	47.1	47.2	-
Girls' and children's dresses and blouses .....	2361	22.2	23.1	22.8	22.8	-	19.3	20.2	19.9	19.8	-
Misc. apparel and accessories .....	238	43.4	43.5	40.8	40.3	-	35.7	35.8	33.4	32.8	-
Misc. fabricated textile products .....	239	203.0	199.8	196.6	190.0	-	167.3	165.0	160.7	154.0	-
Curtains and draperies .....	2391	24.2	25.2	22.9	22.4	-	20.0	20.9	18.8	18.2	-
House furnishings, nec .....	2392	55.0	55.7	54.6	53.7	-	45.9	46.8	45.3	44.7	-
Automotive and apparel trimmings .....	2396	47.6	42.6	45.3	40.9	-	39.2	34.8	36.7	32.2	-
Paper and allied products .....	26	698.4	693.6	694.9	690.4	690.3	524.2	520.2	521.3	518.3	518.0
Paper mills .....	262	177.9	177.2	177.2	177.1	-	134.5	133.7	134.0	134.3	-
Paperboard mills .....	263	51.4	51.9	50.5	50.5	-	39.5	39.8	39.3	39.3	-
Paperboard containers and boxes .....	265	209.6	208.9	209.4	207.2	-	161.7	161.1	161.7	160.0	-
Corrugated and solid fiber boxes .....	2653	118.5	118.6	118.8	118.1	-	88.9	89.2	89.1	88.5	-
Sanitary food containers .....	2656	15.0	14.7	15.0	15.2	-	12.7	12.4	12.6	12.8	-
Folding paperboard boxes .....	2657	50.6	50.2	50.6	49.9	-	40.6	40.1	40.8	40.3	-
Misc. converted paper products .....	267	242.6	239.0	240.9	238.8	-	175.4	172.5	173.3	171.8	-
Paper, coated and laminated, nec .....	2672	44.4	43.6	44.9	44.2	-	21.5	21.0	21.8	21.2	-
Bags: plastics, laminated, and coated .....	2673	34.1	33.7	34.6	34.5	-	25.5	25.5	25.9	25.8	-
Envelopes .....	2677	27.0	27.4	26.9	26.7	-	20.9	21.2	20.9	20.8	-
Printing and publishing .....	27	1,578.2	1,576.5	1,577.8	1,565.4	1,562.5	874.5	874.6	871.8	864.4	860.7
Newspapers .....	271	477.5	475.5	477.1	471.8	-	165.9	165.2	166.5	164.1	-
Periodicals .....	272	131.4	129.7	132.1	131.1	-	48.4	47.6	48.6	47.9	-
Books .....	273	120.3	121.3	120.7	120.9	-	65.0	66.8	64.1	64.9	-
Book publishing .....	2731	85.1	85.8	85.1	85.5	-	36.3	37.7	35.1	35.7	-
Book printing .....	2732	35.1	35.5	35.6	35.4	-	28.7	29.1	29.0	29.2	-
Miscellaneous publishing .....	274	82.7	83.0	83.7	82.9	-	42.1	42.2	41.9	41.7	-
Commercial printing .....	275	551.5	552.2	550.6	546.4	-	400.7	399.8	399.8	395.5	-
Commercial printing, lithographic .....	2752	365.5	364.0	365.7	363.2	-	265.6	263.6	265.6	262.8	-
Commercial printing, nec .....	2759	170.7	172.6	169.7	168.2	-	122.9	124.0	122.0	120.6	-
Manifold business forms .....	276	48.6	49.5	48.1	47.8	-	33.8	34.5	33.6	33.4	-
Blankbooks and bookbinding .....	278	75.4	75.9	73.7	72.5	-	58.1	58.3	56.4	55.1	-
Printing trade services .....	279	64.1	64.4	64.4	64.0	-	47.0	47.7	47.0	46.5	-
Chemicals and allied products .....	28	1,085.5	1,074.8	1,085.6	1,077.6	1,081.0	599.4	599.9	591.9	584.3	589.5
Industrial inorganic chemicals .....	281	134.8	133.8	133.7	132.4	-	68.2	69.1	67.5	66.3	-
Industrial inorganic chemicals, nec .....	2819	90.6	90.0	89.9	88.7	-	47.5	47.3	47.1	46.5	-
Plastics materials and synthetics .....	282	185.0	184.9	183.7	182.8	-	118.7	119.5	115.5	115.3	-
Plastics materials and resins .....	2821	89.0	89.2	88.4	87.8	-	52.1	52.2	51.6	51.9	-
Organic fibers, noncellulosic .....	2824	66.2	66.3	65.3	64.8	-	45.9	46.6	43.9	43.2	-
Drugs .....	283	238.9	235.3	243.3	243.9	-	106.4	105.1	108.0	107.6	-
Pharmaceutical preparations .....	2834	198.1	196.1	200.8	201.2	-	89.6	88.0	91.4	90.9	-
Soap, cleaners, and toilet goods .....	284	158.5	156.6	158.8	154.4	-	97.8	97.1	97.2	94.1	-
Soap and other detergents .....	2841	43.7	43.0	45.6	44.9	-	28.1	27.5	29.6	28.9	-
Polishing, sanitation, and finishing preparations .....	2842,3	44.7	44.0	44.4	44.8	-	24.2	23.8	23.8	24.0	-
Toilet preparations .....	2844	70.1	69.6	68.8	64.7	-	45.5	45.8	43.8	41.2	-
Paints and allied products .....	285	62.9	62.2	61.9	59.4	-	31.8	31.2	31.1	29.6	-
Industrial organic chemicals .....	286	152.6	151.4	152.4	153.0	-	84.8	86.6	82.4	81.5	-
Cyclic crudes and intermediates .....	2865	29.2	28.9	29.4	30.5	-	17.6	17.3	17.5	17.4	-
Industrial organic chemicals, nec .....	2869	119.1	118.1	118.9	118.3	-	64.3	66.2	62.1	61.2	-
Agricultural chemicals .....	287	53.0	52.4	52.5	52.8	-	32.8	32.7	32.1	32.2	-
Miscellaneous chemical products .....	289	99.6	98.2	99.3	98.9	-	58.9	58.6	58.1	57.7	-
Petroleum and coal products .....	29	159.9	153.3	159.1	155.6	155.8	104.7	99.3	102.9	100.1	100.4
Petroleum refining .....	291	119.9	118.3	121.0	120.2	-	76.6	75.5	76.8	77.0	-
Asphalt paving and roofing materials .....	295	27.8	23.1	26.0	23.1	-	21.2	17.1	19.2	16.1	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	866.8	865.2	851.8	842.6	834.3	670.8	669.9	656.2	647.0	639.9
Tires and inner tubes .....	301	84.8	85.5	86.3	86.2	-	62.1	63.2	62.9	62.7	-
Rubber and plastics footwear .....	302	10.9	10.9	10.8	10.7	-	8.8	8.8	8.7	8.6	-
Hose, belting, gaskets, and packing .....	305	57.7	57.3	57.0	56.5	-	41.7	41.9	41.4	41.0	-
Rubber and plastics hose and belting .....	3052	24.7	25.2	24.1	23.9	-	18.5	18.9	18.2	18.0	-
Fabricated rubber products, nec .....	306	103.7	105.6	99.9	98.4	-	78.0	79.7	74.7	73.4	-
Miscellaneous plastics products, nec .....	308	609.7	605.9	597.8	590.8	-	480.1	476.3	468.5	461.3	-
Leather and leather products .....	31	126.5	130.1	118.9	117.3	116.1	104.1	107.9	96.5	95.6	94.2
Leather tanning and finishing .....	311	14.4	14.9	13.8	13.4	-	11.9	12.4	11.1	11.0	-
Footwear, except rubber .....	314	70.8	72.7	66.1	65.8	-	60.0	61.9	55.6	55.5	-
Men's footwear, except athletic .....	3143	30.6	32.2	28.2	28.4	-	24.9	26.4	22.8	23.1	-
Women's footwear, except athletic .....	3144	26.1	26.7	25.1	24.9	-	22.8	23.7	21.6	21.5	-
Luggage .....	316	10.6	11.0	10.3	9.9	-	7.5	8.1	6.9	6.6	-
Handbags and personal leather goods .....	317	13.5	14.2	12.6	12.0	-	10.6	11.2	9.6	9.1	-
<b>Transportation and public utilities .....</b>		<b>5,839</b>	<b>5,724</b>	<b>5,931</b>	<b>5,816</b>	<b>5,777</b>	<b>4,853</b>	<b>4,755</b>	<b>4,941</b>	<b>4,823</b>	<b>4,794</b>
Transportation .....		3,621	3,514	3,719	3,603	3,566	-	-	-	-	-
Railroad transportation .....	40	285.0	284.4	277.2	274.7	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	241.4	240.9	234.2	232.2	-	-	-	-	-	-
Local and interurban passenger transit .....	41	340.1	349.4	366.0	362.8	-	311.0	319.5	337.4	334.1	-
Local and suburban transportation .....	411	135.7	130.9	138.6	138.1	-	122.5	116.6	126.0	125.5	-
Taxicabs .....	412	33.2	33.6	33.4	33.5	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	20.0	28.5	17.9	17.4	-	17.4	25.1	15.7	15.4	-
School buses .....	415	121.6	129.3	145.5	145.0	-	-	-	-	-	-
Trucking and warehousing .....	42	1,655.9	1,598.6	1,710.8	1,615.5	-	1,442.8	1,391.1	1,494.4	1,399.7	-
Trucking and courier services, except air .....	421	1,533.6	1,478.8	1,586.7	1,493.9	-	1,341.4	1,291.5	1,391.7	1,299.4	-
Public warehousing and storage .....	422	118.6	116.0	120.4	117.6	-	98.3	96.4	99.5	96.8	-
Water transportation .....	44	172.5	168.5	169.9	162.9	-	-	-	-	-	-
Water transportation of freight, nec .....	444	13.7	13.8	13.4	13.4	-	-	-	-	-	-
Water transportation services .....	449	110.7	110.8	110.1	104.7	-	98.2	98.6	97.2	92.0	-
Transportation by air .....	45	789.3	749.9	812.3	804.2	-	-	-	-	-	-
Air transportation, scheduled .....	451	655.6	621.3	678.8	672.0	-	-	-	-	-	-
Airports, flying fields, and services .....	458	104.3	101.0	104.2	103.0	-	-	-	-	-	-
Pipelines, except natural gas .....	46	19.7	19.0	19.8	19.4	-	14.4	13.7	14.6	14.2	-
Transportation services .....	47	358.2	344.6	363.1	363.3	-	-	-	-	-	-
Freight transportation arrangement .....	473	133.0	131.1	135.0	135.6	-	107.6	105.5	108.7	106.0	-
Communications and public utilities .....		2,218	2,210	2,212	2,213	2,211	-	-	-	-	-
Communications .....	48	1,275.8	1,280.4	1,268.2	1,270.2	-	952.8	954.8	951.3	952.9	-
Telephone communications .....	481	879.4	888.4	870.7	873.8	-	632.2	638.1	628.5	631.1	-
Radio and television broadcasting .....	483	234.1	233.3	234.0	232.3	-	193.5	192.4	193.5	192.3	-
Radio broadcasting stations .....	4832	121.1	120.9	121.0	120.1	-	-	-	-	-	-
Television broadcasting stations .....	4833	113.0	112.4	113.0	112.2	-	-	-	-	-	-
Cable and other pay television services .....	484	126.9	123.1	128.8	129.4	-	105.7	102.7	108.4	108.8	-
Electric, gas, and sanitary services .....	49	942.2	929.3	944.1	942.8	-	745.9	734.5	745.1	743.2	-
Electric services .....	491	443.0	440.7	441.3	439.5	-	342.0	339.1	340.3	339.5	-
Gas production and distribution .....	492	167.4	164.6	167.8	167.8	-	130.9	128.5	131.0	130.3	-
Combination utility services .....	493	192.7	191.2	191.9	191.3	-	155.4	154.1	153.9	152.9	-
Sanitary services .....	495	109.6	104.0	113.4	114.6	-	94.5	90.5	96.9	97.4	-
<b>Wholesale trade .....</b>		<b>6,361</b>	<b>6,308</b>	<b>6,331</b>	<b>6,250</b>	<b>6,222</b>	<b>5,107</b>	<b>5,067</b>	<b>5,074</b>	<b>4,999</b>	<b>4,967</b>
Durable goods .....	50	3,765	3,753	3,735	3,691	3,676	2,995	2,994	2,960	2,922	-
Motor vehicles, parts, and supplies .....	501	450.5	449.5	446.4	440.7	-	363.8	363.4	360.1	354.9	-
Automobiles and other motor vehicles .....	5012	121.3	121.4	121.1	119.6	-	-	-	-	-	-
Motor vehicle supplies and new parts .....	5013	260.4	260.0	257.7	254.9	-	-	-	-	-	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Furniture and home furnishings .....	502	152.8	155.8	150.2	146.4	-	123.2	126.0	120.8	117.2	-
Furniture .....	5021	69.3	71.1	67.6	66.9	-	-	-	-	-	-
Home furnishings .....	5023	83.5	84.7	82.6	79.5	-	-	-	-	-	-
Lumber and other construction materials .....	503	240.5	233.8	236.6	231.8	-	196.0	190.7	191.8	187.2	-
Lumber, plywood, and millwork .....	5031	124.8	123.0	122.2	121.2	-	-	-	-	-	-
Construction materials, nec .....	5039	49.4	48.1	49.1	47.7	-	-	-	-	-	-
Professional and commercial equipment .....	504	790.3	797.5	786.2	781.0	-	637.2	644.1	633.1	630.3	-
Computers, peripherals and software .....	5045	305.7	315.4	300.1	297.1	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	142.6	144.2	140.0	138.2	-	113.1	114.2	110.5	109.1	-
Electrical goods .....	506	541.4	536.7	543.9	540.7	-	407.1	407.6	404.0	402.0	-
Electrical apparatus and equipment .....	5063	209.8	207.6	211.2	209.7	-	-	-	-	-	-
Electrical appliances, television and radio sets .....	5064	69.4	70.0	69.1	68.4	-	-	-	-	-	-
Electronic parts and equipment .....	5065	262.1	259.1	263.6	262.6	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	283.8	284.8	279.0	276.9	-	228.9	229.5	224.2	221.9	-
Hardware .....	5072	96.4	96.7	94.8	93.5	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	118.4	119.4	115.9	115.6	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	857.9	846.3	847.9	841.1	-	681.8	673.3	672.1	665.6	-
Construction and mining machinery .....	5082	87.2	86.5	85.3	84.1	-	-	-	-	-	-
Farm and garden machinery .....	5083	120.7	116.5	117.6	116.2	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	364.3	361.7	360.1	358.2	-	-	-	-	-	-
Industrial supplies .....	5085	152.6	150.8	152.9	151.7	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	305.0	304.7	305.2	294.6	-	243.5	245.3	243.6	233.9	-
Scrap and waste materials .....	5093	113.1	112.1	112.8	110.2	-	-	-	-	-	-
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,596</b>	<b>2,555</b>	<b>2,596</b>	<b>2,559</b>	<b>2,546</b>	<b>2,112</b>	<b>2,073</b>	<b>2,114</b>	<b>2,077</b>	<b>-</b>
Paper and paper products .....	511	232.3	231.9	231.6	230.0	-	186.8	186.5	186.9	185.5	-
Drugs, proprietaries, and sundries .....	512	188.8	188.0	190.1	188.3	-	158.2	157.0	159.4	157.3	-
Apparel, piece goods, and notions .....	513	213.6	210.6	210.4	207.4	-	167.9	164.3	166.1	162.5	-
Groceries and related products .....	514	851.5	839.4	848.6	834.1	-	714.6	704.3	711.9	695.3	-
Groceries, general line .....	5141	275.8	273.7	279.3	277.3	-	-	-	-	-	-
Meats and meat products .....	5147	63.3	63.7	63.9	62.4	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	103.4	97.0	99.7	92.9	-	-	-	-	-	-
Chemicals and allied products .....	516	129.8	128.7	129.8	129.1	-	93.0	92.4	92.8	92.7	-
Petroleum and petroleum products .....	517	212.8	211.5	213.8	213.2	-	168.5	166.9	169.0	168.7	-
Petroleum bulk stations and terminals .....	5171	94.4	92.1	95.6	95.1	-	-	-	-	-	-
Petroleum products, nec .....	5172	118.4	119.4	118.2	118.1	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	154.0	149.3	156.8	153.3	-	126.3	121.8	129.1	125.9	-
Beer and ale .....	5181	98.2	94.2	99.1	97.0	-	-	-	-	-	-
Wine and distilled beverages .....	5182	55.8	55.1	57.7	56.3	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	490.8	473.0	491.2	483.9	-	396.4	379.3	397.5	390.7	-
Farm supplies .....	5191	165.0	155.1	160.8	159.9	-	-	-	-	-	-
<b>Retail trade .....</b>	<b>52</b>	<b>19,788</b>	<b>19,518</b>	<b>20,299</b>	<b>19,411</b>	<b>19,147</b>	<b>17,522</b>	<b>17,283</b>	<b>18,014</b>	<b>17,128</b>	<b>16,859</b>
Building materials and garden supplies .....	52	792.5	758.3	772.4	740.3	-	656.8	626.4	638.0	608.1	-
Lumber and other building materials .....	521	439.5	428.3	421.8	410.2	-	369.8	360.0	353.8	342.8	-
Hardware stores .....	525	169.1	163.9	171.4	166.4	-	139.5	135.4	141.2	136.8	-
General merchandise stores .....	53	2,481.2	2,600.5	2,683.1	2,460.8	2,329.8	2,324.5	2,440.3	2,530.7	2,310.0	-
Department stores .....	531	2,055.3	2,161.4	2,211.3	2,040.1	-	1,940.6	2,042.3	2,102.4	1,931.8	-
Variety stores .....	533	213.1	217.7	230.0	210.0	-	195.4	200.5	211.8	191.6	-
Miscellaneous general merchandise stores .....	539	212.8	221.4	241.8	210.7	-	188.4	197.5	216.5	186.6	-
Food stores .....	54	3,294.4	3,254.0	3,385.5	3,304.4	3,279.2	3,028.6	2,994.3	3,112.9	3,032.5	-
Grocery stores .....	541	2,918.0	2,894.9	2,966.3	2,933.6	-	2,697.6	2,678.5	2,743.7	2,712.2	-
Meat and fish markets .....	542	57.0	56.4	65.3	55.8	-	-	-	-	-	-
Dairy products stores .....	545	25.6	22.9	32.5	29.8	-	-	-	-	-	-
Retail bakeries .....	546	178.1	173.9	183.5	176.8	-	158.7	155.3	163.5	156.9	-
Automotive dealers and service stations .....	55	2,124.7	2,091.4	2,108.6	2,083.1	2,067.4	1,768.9	1,740.3	1,751.6	1,725.6	-
New and used car dealers .....	551	947.6	939.2	943.5	935.1	-	786.4	779.6	781.7	774.5	-
Auto and home supply stores .....	553	358.7	348.1	359.1	353.0	-	287.4	278.4	287.3	280.2	-
Gasoline service stations .....	554	641.0	639.9	636.1	628.2	-	553.8	552.8	548.2	539.6	-
Automotive dealers, nec .....	559	14.2	12.5	14.8	14.7	-	11.7	10.3	12.2	11.9	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,147.3	1,196.2	1,215.4	1,127.4	-	960.6	1,008.3	1,026.7	935.2	-
Men's and boys' clothing stores .....	561	102.3	110.3	109.6	99.4	-	82.0	88.8	89.8	80.1	-
Women's clothing stores .....	562	396.6	414.1	414.7	386.2	-	329.8	345.4	347.9	318.4	-
Family clothing stores .....	565	273.9	290.0	306.4	273.2	-	236.7	252.4	268.2	235.8	-
Shoe stores .....	566	223.5	228.8	224.1	218.5	-	184.5	191.5	183.7	174.4	-
Furniture and home furnishings stores .....	57	832.0	845.1	851.6	824.1	-	681.8	695.4	701.7	672.7	-
Furniture and home furnishings stores .....	571	472.2	475.0	477.3	466.8	-	384.7	387.9	389.2	379.0	-
Furniture stores .....	5712	288.1	289.3	289.5	284.2	-	-	-	-	-	-
Household appliance stores .....	572	78.3	85.0	75.4	73.4	-	64.6	71.1	62.1	60.1	-
Radio, television, and computer stores .....	573	281.5	285.1	298.9	283.9	-	232.5	236.4	250.4	233.6	-
Radio, television, and electronic stores .....	5731	124.4	125.0	134.0	127.7	-	104.9	105.8	114.6	107.7	-
Record and prerecorded tape stores .....	5735	60.6	62.6	68.2	60.3	-	51.2	53.0	59.2	50.0	-
Eating and drinking places .....	58	6,595.7	6,251.4	6,594.1	6,337.0	6,362.0	5,984.2	5,656.0	5,974.8	5,723.4	-
Miscellaneous retail establishments .....	59	2,519.9	2,521.5	2,688.7	2,533.4	-	2,116.3	2,122.3	2,277.9	2,120.8	-
Drug stores and proprietary stores .....	591	619.4	619.7	638.2	628.3	-	522.0	522.8	540.0	528.9	-
Liquor stores .....	592	123.3	122.0	127.3	122.0	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	897.6	914.5	1,015.1	915.7	-	750.4	768.8	867.4	764.7	-
Sporting goods and bicycle shops .....	5941	167.2	166.2	180.2	171.8	-	-	-	-	-	-
Book stores .....	5942	95.0	97.7	101.7	101.2	-	-	-	-	-	-
Stationery stores .....	5943	82.9	85.3	84.4	82.7	-	-	-	-	-	-
Jewelry stores .....	5944	157.1	161.8	173.2	159.6	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	184.5	179.8	197.6	178.7	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	64.2	63.5	68.3	66.6	-	-	-	-	-	-
Nonstore retailers .....	596	271.5	277.0	277.1	260.5	-	240.1	246.1	246.6	230.4	-
Catalog and mail-order houses .....	5961	139.8	145.1	149.2	135.5	-	-	-	-	-	-
Merchandising machine operators .....	5962	83.2	84.4	81.6	80.5	-	-	-	-	-	-
Fuel dealers .....	598	114.0	119.1	117.3	117.8	-	95.0	100.4	98.2	98.4	-
Retail stores, nec .....	599	424.5	402.9	442.6	418.4	-	349.9	329.3	361.0	339.3	-
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,832</b>	<b>6,736</b>	<b>6,811</b>	<b>6,763</b>	<b>6,750</b>	<b>4,958</b>	<b>4,882</b>	<b>4,920</b>	<b>4,874</b>	<b>4,859</b>
Finance .....		3,340	3,317	3,336	3,322	3,318	-	-	-	-	-
Depository institutions .....	60	2,300.8	2,295.2	2,293.4	2,288.2	-	1,669.3	1,664.1	1,660.2	1,655.3	-
Commercial banks .....	602	1,560.2	1,555.8	1,557.0	1,554.0	-	1,109.7	1,104.4	1,105.4	1,103.7	-
State commercial banks .....	6022	670.3	668.7	666.4	667.1	-	-	-	-	-	-
Savings institutions .....	603	469.5	479.7	457.7	457.8	-	-	-	-	-	-
Federal savings institutions .....	6035	235.1	238.9	228.4	228.2	-	-	-	-	-	-
Savings institutions, except federal .....	6036	234.3	240.8	229.3	229.6	-	-	-	-	-	-
Credit unions .....	606	135.5	133.4	137.6	137.6	-	108.7	107.0	110.3	110.2	-
Nondepository institutions .....	61	372.9	369.5	372.6	370.3	-	270.6	268.0	270.6	269.4	-
Personal credit institutions .....	614	131.3	130.1	133.5	132.6	-	98.3	98.0	100.5	100.2	-
Business credit institutions .....	615	82.2	81.1	82.9	82.6	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	150.0	148.8	147.0	146.0	-	-	-	-	-	-
Security and commodity brokers .....	62	425.7	426.4	420.5	419.6	-	-	-	-	-	-
Security brokers and dealers .....	621	322.6	326.2	317.4	316.5	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges .....	622,3	25.8	26.1	25.0	24.6	-	-	-	-	-	-
Security and commodity services .....	628	77.3	74.1	78.1	78.5	-	48.6	47.5	48.5	48.6	-
Holding and other investment offices .....	67	240.5	225.4	249.2	243.4	-	-	-	-	-	-
Insurance .....	63,64	2,142	2,122	2,150	2,154	2,154	-	-	-	-	-
Insurance carriers .....	63	1,481.2	1,465.3	1,488.9	1,493.7	-	995.0	982.2	1,002.3	1,003.9	-
Life insurance .....	631	559.6	558.8	559.7	562.0	-	342.5	344.2	341.5	341.3	-
Medical service and health insurance .....	632	245.2	236.6	251.8	254.6	-	198.8	191.3	204.4	206.8	-
Fire, marine, and casualty insurance .....	633	557.9	552.2	562.1	562.4	-	362.0	356.0	367.4	367.2	-
Title insurance .....	636	65.4	65.1	61.0	60.0	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	661.2	656.5	660.8	660.6	-	-	-	-	-	-

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate .....	65	1,350	1,297	1,325	1,287	1,278	-	-	-	-	-
Real estate operators and lessors .....	651	579.3	545.2	582.2	560.1	-	-	-	-	-	
Real estate agents and managers .....	653	576.2	569.3	560.8	549.6	-	-	-	-	-	
Subdividers and developers .....	655	161.6	150.5	150.0	146.4	-	-	-	-	-	
<b>Services .....</b>		<b>28,209</b>	<b>27,254</b>	<b>28,459</b>	<b>28,132</b>	<b>28,389</b>	<b>24,613</b>	<b>23,750</b>	<b>24,801</b>	<b>24,476</b>	<b>24,712</b>
Hotels and other lodging places .....	70	1,620.8	1,529.0	1,551.8	1,517.6	-	-	-	-	-	
Hotels and motels .....	701	1,560.9	1,487.4	1,507.5	1,475.2	-	1,382.7	1,314.7	1,329.2	1,296.4	
Personal services .....	72	1,092.6	1,099.8	1,096.3	1,116.1	-	-	-	-	-	
Laundry, cleaning, and garment services .....	721	427.0	420.3	432.5	428.2	-	379.7	374.7	383.8	379.2	
Photographic studios, portrait .....	722	71.0	66.2	77.2	68.2	-	-	-	-	-	
Beauty shops .....	723	373.6	368.3	381.6	378.4	-	334.3	328.5	342.7	339.0	
Funeral service and crematories .....	726	84.7	83.1	86.2	85.6	-	-	-	-	-	
Miscellaneous personal services .....	729	112.3	137.6	95.0	132.0	-	98.4	121.1	82.1	118.2	
Business services .....	73	5,038.7	4,909.9	5,037.7	4,927.1	4,909.0	4,416.2	4,301.5	4,398.5	4,294.3	
Advertising .....	731	239.1	237.4	238.7	235.9	-	171.6	173.1	168.8	166.9	
Advertising agencies .....	7311	172.3	171.7	171.5	168.9	-	-	-	-	-	
Credit reporting and collection .....	732	104.9	102.9	104.5	105.0	-	-	-	-	-	
Mailing, reproduction, and stenographic services .....	733	253.1	241.4	266.5	262.7	-	-	-	-	-	
Services to buildings .....	734	794.2	792.3	782.8	775.4	-	720.5	720.2	708.7	701.3	
Personnel supply services .....	736	1,409.1	1,355.3	1,364.1	1,273.1	-	-	-	-	-	
Employment agencies .....	7361	232.3	228.6	222.7	210.6	-	-	-	-	-	
Help supply services .....	7363	1,176.7	1,126.7	1,141.4	1,062.5	-	1,137.3	1,088.6	1,099.1	1,020.7	
Computer and data processing services .....	737	801.2	781.1	823.1	829.7	-	624.3	607.6	642.1	650.6	
Prepackaged software .....	7372	114.3	109.2	118.3	119.9	-	-	-	-	-	
Data processing and preparation .....	7374	208.8	208.8	212.7	216.4	-	-	-	-	-	
Miscellaneous business services .....	738	1,219.7	1,193.4	1,242.9	1,235.1	-	1,079.8	1,055.4	1,098.5	1,092.8	
Detective and armored car services .....	7381	449.0	439.6	460.8	459.4	-	421.4	413.0	432.0	430.2	
Photofinishing laboratories .....	7384	81.9	80.7	85.1	78.4	-	-	-	-	-	
Auto repair, services, and parking .....	75	925.6	907.8	921.9	912.6	-	764.7	751.3	760.8	750.4	
Automotive rentals, without drivers .....	751	192.8	182.7	195.0	193.5	-	-	-	-	-	
Automotive repair shops .....	753	531.9	521.3	530.8	525.9	-	436.0	427.9	434.4	428.3	
Miscellaneous repair services .....	76	386.5	377.8	386.5	381.1	-	317.3	309.6	316.8	310.9	
Electrical repair shops .....	762	129.9	124.1	133.5	134.1	-	-	-	-	-	
Motion pictures .....	78	398.1	383.7	404.4	400.6	-	335.9	321.7	337.8	332.1	
Motion picture production and services .....	781	152.5	138.7	165.3	161.4	-	124.2	111.7	132.9	127.3	
Motion picture theaters .....	783	111.1	108.8	107.2	106.6	-	-	-	-	-	
Amusement and recreation services .....	79	1,098.8	970.9	1,028.8	1,010.8	-	963.5	846.2	898.1	878.7	
Misc. amusement and recreation services .....	799	749.2	647.2	666.7	658.1	-	658.2	563.9	579.9	569.9	
Health services .....	80	8,114.3	7,815.6	8,386.4	8,409.2	8,450.4	7,212.8	6,943.9	7,454.4	7,475.0	
Offices and clinics of medical doctors .....	801	1,412.5	1,347.4	1,471.6	1,476.1	-	1,166.4	1,111.0	1,214.3	1,215.2	
Offices and clinics of dentists .....	802	522.9	512.7	533.8	533.9	-	458.5	449.4	467.7	469.4	
Nursing and personal care facilities .....	805	1,458.1	1,406.6	1,509.8	1,513.3	-	1,316.7	1,269.7	1,364.1	1,365.7	
Skilled nursing care facilities .....	8051	1,005.4	969.6	1,039.6	1,043.1	-	-	-	-	-	
Nursing and personal care, nec .....	8059	245.0	236.1	254.3	254.1	-	-	-	-	-	
Hospitals .....	806	3,679.9	3,574.3	3,775.5	3,786.8	-	3,369.1	3,269.2	3,459.1	3,468.8	
General medical and surgical hospitals .....	8062	3,403.5	3,306.2	3,493.0	3,503.6	-	-	-	-	-	
Psychiatric hospitals .....	8063	100.8	98.9	101.6	101.4	-	-	-	-	-	
Specialty hospitals, excluding psychiatric .....	8069	175.6	169.2	180.9	181.8	-	-	-	-	-	
Medical and dental laboratories .....	807	179.9	172.1	187.6	188.9	-	-	-	-	-	
Home health care services .....	808	299.0	270.7	318.7	319.4	-	276.0	250.1	294.1	294.4	

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>				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Services—Continued</b>											
Legal services .....	81	932.6	911.6	938.2	933.6	-	769.3	751.5	769.6	764.9	-
Educational services .....	82	1,703.8	1,673.6	1,809.4	1,704.3	-	-	-	-	-	-
Elementary and secondary schools .....	821	455.6	462.5	469.2	466.8	-	-	-	-	-	-
Colleges and universities .....	822	1,038.7	1,008.5	1,129.9	1,030.1	-	-	-	-	-	-
Vocational schools .....	824	92.7	94.0	92.0	90.5	-	-	-	-	-	-
Social services .....	83	1,838.6	1,776.1	1,912.9	1,909.3	-	-	-	-	-	-
Individual and family services .....	832	453.9	440.1	463.9	462.1	-	-	-	-	-	-
Job training and related services .....	833	245.5	239.3	239.5	236.1	-	-	-	-	-	-
Residential care .....	836	474.8	448.2	501.1	504.2	-	-	-	-	-	-
Museums and botanical and zoological gardens .....	84	62.9	56.8	61.1	57.9	-	-	-	-	-	-
Membership organizations .....	86	1,839.3	1,791.8	1,835.7	1,810.5	-	-	-	-	-	-
Business associations .....	861	101.9	100.3	101.0	100.3	-	-	-	-	-	-
Labor organizations .....	863	135.5	130.4	137.5	132.5	-	-	-	-	-	-
Civic and social associations .....	864	421.6	392.2	417.1	398.9	-	-	-	-	-	-
Engineering and management services .....	87	2,438.4	2,408.3	2,418.8	2,407.8	-	1,858.3	1,836.8	1,840.1	1,830.0	-
Engineering and architectural services .....	871	793.7	781.2	782.2	775.6	-	651.1	641.7	640.6	635.7	-
Accounting, auditing, and bookkeeping .....	872	538.1	543.6	527.2	537.5	-	402.9	412.8	392.4	403.0	-
Research and testing services .....	873	543.3	529.9	543.2	534.3	-	393.5	380.6	394.3	384.5	-
Commercial physical research .....	8731	226.4	223.2	226.0	226.9	-	-	-	-	-	-
Noncommercial research organizations .....	8733	147.2	142.4	148.9	145.8	-	-	-	-	-	-
Management and public relations .....	874	563.3	553.6	566.2	560.4	-	410.9	401.7	412.8	406.8	-
Services, nec .....	89	39.1	39.1	38.5	38.7	-	31.1	30.2	30.3	29.9	-
<b>Government</b> .....		18,291	17,983	18,614	18,267	18,605	-	-	-	-	-
Federal Government <sup>4</sup> .....		3,085	2,980	2,940	2,908	2,918	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		3,024.6	2,920.6	2,879.3	-	-	-	-	-	-	-
Department of Defense .....		950.9	972.6	920.1	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		818.6	819.5	824.3	-	-	-	-	-	-	-
Other executive agencies .....		1,255.1	1,128.5	1,134.9	-	-	-	-	-	-	-
Legislative .....		37.8	37.5	37.0	-	-	-	-	-	-	-
Judicial .....		22.8	21.7	23.7	-	-	-	-	-	-	-
Federal Government, by industry											
Manufacturing activities .....		108.5	112.0	104.1	103.7	-	-	-	-	-	-
Ship building and repairing .....	3731	67.0	69.6	64.0	63.8	-	-	-	-	-	-
Transportation and public utilities, except Postal Service .....		38.3	37.0	37.6	36.9	-	-	-	-	-	-
Services .....		391.3	390.5	387.8	387.7	-	-	-	-	-	-
Hospitals .....	806	227.9	226.8	227.9	228.9	-	-	-	-	-	-
State government .....		4,284	4,182	4,407	4,285	4,430	-	-	-	-	-
Hospitals .....	806	454.3	451.0	457.0	451.0	-	-	-	-	-	-
Education .....	82	1,694.8	1,650.6	1,816.3	1,695.2	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		1,608.2	1,566.3	1,609.5	1,615.0	-	-	-	-	-	-
Local government .....		10,922	10,821	11,267	11,074	11,257	-	-	-	-	-
Transportation and public utilities .....		489.0	487.9	487.0	486.6	-	-	-	-	-	-
Hospitals .....	806	673.4	656.8	687.1	688.8	-	-	-	-	-	-
Education .....	82	6,041.3	6,111.5	6,446.0	6,278.8	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		3,375.6	3,242.7	3,343.1	3,318.4	-	-	-	-	-	-

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

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

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

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

the National Security Agency.

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

- Data not available.

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Avg. 1990	Dec. 1989	Oct. 1990	Nov. 1990	Dec. 1990
<b>Total</b> .....	52,330	52,333	52,961	53,221	53,280
<b>Total private</b> .....	42,622	42,678	42,985	43,122	43,237
<b>Goods-producing</b> .....	6,943	7,031	6,954	6,883	6,827
<b>Mining</b> .....	98	95	98	98	99
<b>Construction</b> .....	563	556	571	564	558
<b>Manufacturing</b> .....	6,281	6,380	6,285	6,221	6,170
<b>Durable goods</b> .....	2,977	3,038	2,962	2,929	2,907
Lumber and wood products .....	119	120	118	115	115
Furniture and fixtures .....	159	163	159	156	154
Stone, clay, and glass products .....	108	110	108	107	106
Primary metal industries .....	102	103	102	102	101
Fabricated metal products .....	313	318	314	311	308
Industrial machinery and equipment .....	458	468	452	450	449
Electronic and other electrical equipment .....	723	743	715	710	704
Transportation equipment .....	404	414	402	391	390
Instruments and related products .....	412	420	409	407	407
Miscellaneous manufacturing .....	179	179	183	180	176
<b>Nondurable goods</b> .....	3,304	3,342	3,323	3,292	3,263
Food and kindred products .....	536	536	561	543	532
Tobacco products .....	16	17	17	16	17
Textile mill products .....	341	348	336	337	332
Apparel and other textile products .....	812	844	810	803	792
Paper and allied products .....	173	172	173	172	170
Printing and publishing .....	696	696	695	698	699
Chemicals and allied products .....	328	322	329	327	329
Petroleum and coal products .....	26	25	27	27	26
Rubber and misc. plastics products .....	303	307	305	299	296
Leather and leather products .....	74	77	73	71	69
<b>Service-producing</b> .....	45,388	45,302	46,007	46,338	46,453
<b>Transportation and public utilities</b> .....	1,712	1,686	1,745	1,748	1,753
<b>Wholesale trade</b> .....	1,951	1,958	1,965	1,963	1,955
<b>Retail trade</b> .....	10,480	10,943	10,510	10,704	10,860
<b>Finance, insurance, and real estate</b> .....	4,310	4,269	4,312	4,313	4,315
<b>Services</b> .....	17,227	16,791	17,499	17,511	17,527
<b>Government</b> .....	9,708	9,655	9,976	10,099	10,043
Federal .....	1,261	1,163	1,233	1,224	1,220
State .....	2,127	2,121	2,201	2,220	2,203
Local .....	6,320	6,371	6,542	6,655	6,620

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

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

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1990											1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>
<b>Total</b> .....	109,958	110,122	110,177	110,617	110,829	110,740	110,613	110,612	110,432	110,165	110,004	109,771	109,587
<b>Total private</b> .....	91,917	91,963	91,922	92,120	92,282	92,300	92,320	92,306	92,112	91,840	91,701	91,491	91,283
<b>Goods-producing</b> .....	25,339	25,259	25,180	25,191	25,162	25,105	25,013	24,931	24,777	24,511	24,416	24,184	24,086
<b>Mining</b> .....	727	729	734	738	744	745	735	736	733	738	740	737	739
Oil and gas extraction .....	402	403	405	408	413	413	410	410	411	414	414	415	417
<b>Construction</b> .....	5,368	5,313	5,256	5,288	5,270	5,229	5,194	5,176	5,093	5,029	4,983	4,833	4,860
General building contractors .....	1,368	1,351	1,338	1,334	1,334	1,319	1,307	1,306	1,278	1,254	1,243	1,222	1,220
<b>Manufacturing</b> .....	19,244	19,217	19,190	19,167	19,148	19,131	19,084	19,019	18,951	18,744	18,893	18,614	18,487
<b>Durable goods</b> .....	11,278	11,281	11,229	11,217	11,201	11,179	11,129	11,068	11,026	10,865	10,831	10,773	10,656
Lumber and wood products .....	751	751	750	748	743	742	739	737	730	716	712	704	692
Furniture and fixtures .....	518	518	518	516	515	511	513	510	507	496	494	491	482
Stone, clay, and glass products .....	588	585	580	559	556	552	551	547	546	541	538	529	527
Primary metal industries .....	756	754	755	755	758	759	755	751	751	744	738	738	728
Blast furnaces and basic steel products .....	272	270	271	271	270	271	271	270	271	271	269	267	263
Fabricated metal products .....	1,418	1,418	1,419	1,417	1,415	1,419	1,419	1,410	1,405	1,389	1,382	1,378	1,354
Industrial machinery and equipment .....	2,126	2,119	2,112	2,112	2,108	2,104	2,096	2,082	2,081	2,067	2,058	2,055	2,040
Electronic and other electrical equipment .....	1,720	1,718	1,713	1,711	1,703	1,695	1,685	1,674	1,665	1,652	1,644	1,638	1,629
Transportation equipment .....	2,023	2,022	2,014	2,010	2,021	2,015	1,997	1,981	1,969	1,897	1,904	1,884	1,853
Motor vehicles and equipment .....	828	825	820	817	826	824	814	806	803	748	762	752	736
Instruments and related products .....	1,009	1,008	1,005	1,002	1,000	996	990	991	988	983	982	976	973
Miscellaneous manufacturing .....	389	388	385	387	384	386	384	385	384	380	379	380	378
<b>Nondurable goods</b> .....	7,966	7,956	7,961	7,950	7,947	7,952	7,955	7,951	7,925	7,879	7,862	7,841	7,831
Food and kindred products .....	1,650	1,648	1,651	1,650	1,643	1,645	1,650	1,652	1,654	1,647	1,654	1,657	1,666
Tobacco products .....	47	46	46	46	47	46	48	47	46	46	47	46	46
Textile mill products .....	711	709	708	703	702	702	701	697	688	687	680	675	668
Apparel and other textile products .....	1,045	1,037	1,036	1,031	1,029	1,027	1,026	1,027	1,021	1,008	1,000	995	995
Paper and allied products .....	699	698	699	698	699	701	702	700	698	696	694	694	694
Printing and publishing .....	1,576	1,578	1,579	1,581	1,582	1,583	1,582	1,581	1,579	1,572	1,570	1,565	1,563
Chemicals and allied products .....	1,083	1,083	1,084	1,085	1,086	1,088	1,086	1,088	1,087	1,087	1,088	1,084	1,085
Petroleum and coal products .....	159	159	159	159	160	160	161	161	161	161	161	160	160
Rubber and misc. plastics products .....	865	867	869	868	871	874	874	873	869	855	849	846	837
Leather and leather products .....	131	131	130	129	128	126	125	125	122	120	119	119	117
<b>Service-producing</b> .....	64,619	64,663	64,997	65,426	65,667	65,635	65,600	65,681	65,655	65,654	65,588	65,587	65,501
<b>Transportation and public utilities</b> .....	5,804	5,808	5,809	5,833	5,846	5,841	5,846	5,870	5,870	5,866	5,882	5,884	5,848
Transportation .....	3,583	3,589	3,588	3,613	3,627	3,625	3,631	3,652	3,652	3,653	3,668	3,658	3,624
Communications and public utilities .....	2,221	2,219	2,221	2,220	2,219	2,216	2,215	2,218	2,218	2,213	2,214	2,226	2,224
<b>Wholesale trade</b> .....	6,357	6,361	6,363	6,369	6,383	6,374	6,376	6,370	6,355	6,343	6,331	6,297	6,274
Durable goods .....	3,775	3,775	3,771	3,770	3,779	3,775	3,770	3,763	3,752	3,742	3,735	3,710	3,694
Nondurable goods .....	2,582	2,586	2,592	2,599	2,604	2,599	2,606	2,607	2,603	2,601	2,596	2,587	2,580
<b>Retail trade</b> .....	19,758	19,764	19,778	19,795	19,822	19,851	19,846	19,844	19,792	19,739	19,670	19,687	19,618
General merchandise stores .....	2,505	2,495	2,493	2,487	2,496	2,494	2,493	2,486	2,466	2,444	2,402	2,394	2,402
Food stores .....	3,288	3,272	3,287	3,295	3,302	3,304	3,301	3,304	3,307	3,317	3,313	3,314	3,309
Automotive dealers and service stations .....	2,118	2,120	2,118	2,121	2,120	2,131	2,135	2,140	2,130	2,128	2,121	2,108	2,097
Eating and drinking places .....	6,556	6,563	6,573	6,583	6,598	6,619	6,613	6,623	6,633	6,620	6,627	6,629	6,613
<b>Finance, insurance, and real estate</b> .....	6,817	6,821	6,823	6,838	6,844	6,842	6,852	6,851	6,843	6,833	6,829	6,820	6,810
Finance .....	3,340	3,333	3,336	3,338	3,344	3,341	3,349	3,349	3,346	3,341	3,336	3,332	3,328
Insurance .....	2,128	2,135	2,135	2,139	2,143	2,147	2,151	2,152	2,152	2,151	2,152	2,156	2,156
Real estate .....	1,349	1,353	1,352	1,361	1,357	1,354	1,352	1,350	1,345	1,341	1,341	1,332	1,326
<b>Services</b> .....	27,842	27,950	27,969	28,094	28,225	28,287	28,387	28,440	28,475	28,548	28,573	28,619	28,647
Business services .....	5,010	5,021	5,028	5,048	5,060	5,051	5,052	5,071	5,062	5,046	5,018	5,012	4,994
Health services .....	7,889	7,936	7,984	8,040	8,096	8,132	8,191	8,237	8,294	8,335	8,395	8,435	8,467
<b>Government</b> .....	18,041	18,159	18,255	18,497	18,547	18,440	18,293	18,306	18,320	18,325	18,303	18,280	18,304
Federal .....	3,005	3,089	3,151	3,346	3,338	3,164	3,045	2,999	2,983	2,961	2,943	2,928	2,933
State .....	4,239	4,249	4,252	4,262	4,296	4,298	4,305	4,309	4,323	4,323	4,325	4,333	4,335
Local .....	10,797	10,821	10,852	10,889	10,913	10,978	10,943	10,998	11,014	11,041	11,035	11,019	11,036

<sup>P</sup> = preliminary.

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

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

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989	1990											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total</b> .....	51,607	51,711	51,844	51,968	52,082	52,295	52,507	52,597	52,620	52,642	52,610	52,582	52,552
<b>Total private</b> .....	42,196	42,249	42,347	42,405	42,459	42,538	42,697	42,750	42,812	42,852	42,833	42,786	42,763
<b>Goods-producing</b> .....	7,025	7,001	7,003	6,988	6,983	6,974	6,969	6,964	6,952	6,936	6,896	6,839	6,818
<b>Mining</b> .....	95	96	97	98	98	98	99	99	100	99	98	98	99
<b>Construction</b> .....	558	562	564	563	563	566	565	564	563	566	564	561	560
<b>Manufacturing</b> .....	6,372	6,343	6,342	6,327	6,322	6,310	6,305	6,301	6,289	6,271	6,234	6,180	6,159
<b>Durable goods</b> .....	3,028	3,009	3,017	3,013	3,006	3,001	2,999	2,995	2,977	2,962	2,947	2,911	2,896
Lumber and wood products .....	120	120	120	120	120	120	120	121	119	118	117	116	115
Furniture and fixtures .....	162	161	161	161	160	160	161	159	161	159	158	154	153
Stone, clay, and glass products .....	110	110	110	110	109	109	108	107	108	109	108	107	105
Primary metal industries .....	103	102	102	103	103	103	103	104	102	102	102	102	101
Fabricated metal products .....	317	314	315	315	315	314	314	315	315	313	312	308	307
Industrial machinery and equipment .....	466	466	466	463	462	460	459	459	457	453	453	449	447
Electronic and other electrical equipment .....	740	738	736	735	733	732	729	726	719	714	711	705	700
Transportation equipment .....	411	398	408	408	408	408	411	411	408	406	402	389	387
Instruments and related products .....	418	418	417	417	416	415	415	413	410	409	407	405	404
Miscellaneous manufacturing .....	181	182	182	181	180	180	179	180	178	179	177	176	177
<b>Nondurable goods</b> .....	3,344	3,334	3,325	3,314	3,316	3,309	3,306	3,306	3,312	3,309	3,287	3,269	3,263
Food and kindred products .....	539	539	537	537	538	537	532	534	536	538	536	532	536
Tobacco products .....	16	16	16	16	15	15	16	16	16	16	15	15	16
Textile mill products .....	348	347	346	344	343	341	341	341	343	340	334	335	332
Apparel and other textile products .....	843	836	827	818	818	814	813	808	811	812	804	797	790
Paper and allied products .....	172	172	173	173	173	173	173	174	174	173	172	172	170
Printing and publishing .....	693	694	694	695	696	696	697	698	697	697	697	696	696
Chemicals and allied products .....	323	324	326	326	327	327	327	329	328	329	329	328	330
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 .....	306	303	303	303	304	305	306	307	308	306	303	297	296
Leather and leather products .....	78	77	77	76	76	75	75	73	73	72	71	70	70
<b>Service-producing</b> .....	44,582	44,710	44,841	44,980	45,099	45,321	45,538	45,633	45,668	45,706	45,714	45,743	45,734
<b>Transportation and public utilities</b> .....	1,677	1,680	1,687	1,690	1,692	1,702	1,713	1,711	1,721	1,731	1,733	1,739	1,744
<b>Wholesale trade</b> .....	1,946	1,949	1,947	1,950	1,949	1,950	1,957	1,956	1,955	1,957	1,953	1,949	1,943
<b>Retail trade</b> .....	10,474	10,497	10,484	10,474	10,483	10,482	10,504	10,518	10,498	10,503	10,479	10,443	10,402
<b>Finance, insurance, and real estate</b> .....	4,267	4,278	4,287	4,295	4,303	4,309	4,314	4,322	4,332	4,326	4,325	4,322	4,311
<b>Services</b> .....	16,807	16,844	16,939	17,008	17,049	17,121	17,240	17,279	17,354	17,399	17,447	17,494	17,545
<b>Government</b> .....	9,411	9,462	9,497	9,563	9,623	9,757	9,810	9,847	9,808	9,790	9,777	9,796	9,789
<b>Federal</b> .....	1,161	1,181	1,189	1,234	1,269	1,366	1,362	1,335	1,272	1,249	1,233	1,223	1,218
<b>State</b> .....	2,075	2,088	2,097	2,104	2,107	2,115	2,134	2,133	2,138	2,145	2,149	2,155	2,156
<b>Local</b> .....	6,175	6,193	6,211	6,225	6,247	6,276	6,314	6,379	6,398	6,396	6,395	6,418	6,415

<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 reflect the 1987 Standard Industrial

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

**ESTABLISHMENT DATA  
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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>	Feb. <sup>p</sup>
<b>Total private</b> .....	74,512	74,545	74,496	74,651	74,827	74,799	74,779	74,753	74,606	74,342	74,195	73,980	73,781
<b>Goods-producing</b> .....	17,810	17,742	17,667	17,673	17,651	17,613	17,527	17,435	17,314	17,076	16,993	16,773	16,708
<b>Mining</b> .....	521	523	527	530	537	537	528	528	531	531	534	530	532
<b>Construction</b> .....	4,205	4,158	4,094	4,120	4,107	4,066	4,031	4,008	3,934	3,874	3,833	3,678	3,712
<b>Manufacturing</b> .....	13,084	13,061	13,046	13,023	13,007	13,010	12,968	12,899	12,849	12,671	12,626	12,565	12,464
<b>Durable goods</b> .....	7,488	7,479	7,461	7,450	7,439	7,438	7,395	7,337	7,308	7,171	7,146	7,104	7,006
Lumber and wood products .....	620	620	619	617	612	610	607	606	599	588	584	577	566
Furniture and fixtures .....	411	411	409	408	408	404	406	403	400	390	386	385	378
Stone, clay, and glass products .....	444	440	436	434	432	429	428	426	425	420	418	409	408
Primary metal industries .....	575	573	574	574	574	577	572	570	570	563	558	559	547
Blast furnaces and basic steel products .....	208	207	208	208	207	208	207	207	208	207	206	204	199
Fabricated metal products .....	1,044	1,044	1,047	1,045	1,043	1,047	1,046	1,039	1,034	1,021	1,016	1,013	991
Industrial machinery and equipment .....	1,280	1,276	1,274	1,274	1,270	1,271	1,263	1,247	1,247	1,238	1,230	1,226	1,215
Electronic and other electrical equipment .....	1,083	1,084	1,082	1,080	1,078	1,073	1,065	1,056	1,052	1,040	1,034	1,024	1,020
Transportation equipment .....	1,244	1,246	1,239	1,238	1,250	1,253	1,239	1,224	1,220	1,156	1,166	1,156	1,128
Motor vehicles and equipment .....	634	632	628	626	634	633	622	615	614	562	576	568	553
Instruments and related products .....	503	503	502	499	495	493	490	487	484	481	481	481	481
Miscellaneous manufacturing .....	284	282	279	281	277	281	279	279	277	274	273	274	272
<b>Nondurable goods</b> .....	5,596	5,582	5,585	5,573	5,568	5,572	5,573	5,562	5,541	5,500	5,480	5,461	5,458
Food and kindred products .....	1,183	1,183	1,188	1,187	1,179	1,182	1,187	1,189	1,190	1,186	1,192	1,195	1,206
Tobacco products .....	35	35	33	34	34	34	35	35	34	34	35	34	34
Textile mill products .....	612	609	609	604	603	602	602	598	589	589	582	579	573
Apparel and other textile products .....	879	870	869	865	863	860	860	859	854	842	836	828	829
Paper and allied products .....	525	524	525	523	525	526	527	526	525	521	520	522	522
Printing and publishing .....	876	876	875	876	877	880	879	875	874	869	865	864	860
Chemicals and allied products .....	603	601	601	601	600	602	597	597	597	595	594	588	592
Petroleum and coal products .....	104	105	104	104	105	105	105	105	105	106	105	104	105
Rubber and misc. plastics products .....	670	670	673	672	676	677	678	676	673	660	654	650	642
Leather and leather products .....	109	109	108	107	106	104	103	102	100	98	97	97	95
<b>Service-producing</b> .....	56,702	56,803	56,829	56,978	57,176	57,186	57,252	57,318	57,292	57,266	57,202	57,207	57,073
<b>Transportation and public utilities</b> .....	4,826	4,833	4,831	4,848	4,866	4,852	4,843	4,868	4,870	4,874	4,892	4,891	4,867
<b>Wholesale trade</b> .....	5,111	5,111	5,109	5,106	5,130	5,118	5,117	5,109	5,095	5,084	5,074	5,049	5,017
<b>Retail trade</b> .....	17,497	17,506	17,517	17,533	17,563	17,588	17,573	17,570	17,525	17,461	17,405	17,389	17,309
<b>Finance, insurance, and real estate</b> .....	4,958	4,960	4,961	4,970	4,970	4,965	4,973	4,964	4,957	4,947	4,930	4,928	4,918
<b>Services</b> .....	24,310	24,393	24,411	24,521	24,647	24,663	24,746	24,807	24,845	24,900	24,901	24,950	24,962

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

<sup>p</sup> = preliminary.

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

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Private nonfarm payrolls, 356 industries<sup>1</sup></b>												
Over 1-month span:												
1989 .....	64.5	58.7	58.0	57.0	55.6	57.3	55.8	57.7	50.0	55.2	59.6	56.6
1990 .....	55.6	58.6	53.7	49.9	55.8	49.9	50.8	48.2	45.8	42.3	38.8	41.4
1991 .....	<sup>P</sup> 41.2	<sup>P</sup> 39.7										
Over 3-month span:												
1989 .....	65.3	64.2	60.0	60.1	59.7	58.3	59.7	54.5	55.2	55.8	57.7	60.3
1990 .....	58.4	56.7	54.8	53.1	53.7	55.3	50.1	45.2	40.9	36.8	35.0	<sup>P</sup> 34.3
1991 .....	<sup>P</sup> 31.7											
Over 6-month span:												
1989 .....	67.8	65.4	65.0	61.0	61.2	58.7	57.0	58.1	56.2	58.3	57.4	58.4
1990 .....	57.3	56.5	55.5	55.9	51.4	48.3	45.4	39.9	36.8	<sup>P</sup> 33.4	<sup>P</sup> 31.5	
1991 .....												
Over 12-month span:												
1989 .....	67.1	67.7	65.3	64.6	64.9	61.2	60.0	59.8	58.6	57.3	56.7	56.0
1990 .....	54.8	54.1	54.1	50.0	46.8	43.3	<sup>P</sup> 40.4	<sup>P</sup> 38.1				
1991 .....												
<b>Manufacturing payrolls, 139 industries<sup>1</sup></b>												
Over 1-month span:												
1989 .....	60.4	48.6	50.4	47.1	45.3	45.7	45.0	45.7	34.2	48.6	43.5	48.2
1990 .....	42.4	45.7	45.3	46.8	45.7	40.3	48.2	40.6	38.1	36.3	25.2	34.2
1991 .....	<sup>P</sup> 36.7	<sup>P</sup> 33.1										
Over 3-month span:												
1989 .....	54.0	54.7	45.3	43.9	43.2	42.8	41.7	33.1	36.3	34.9	41.7	39.2
1990 .....	40.3	37.1	44.2	41.4	40.6	44.2	39.9	33.8	29.1	21.2	20.5	<sup>P</sup> 19.4
1991 .....	<sup>P</sup> 22.7											
Over 6-month span:												
1989 .....	56.5	49.6	49.3	43.5	42.1	37.1	36.7	34.9	34.2	35.3	33.1	36.0
1990 .....	37.1	35.6	36.3	43.2	38.1	31.7	28.4	19.8	21.9	<sup>P</sup> 17.3	<sup>P</sup> 17.6	
1991 .....												
Over 12-month span:												
1989 .....	53.8	55.0	49.3	45.3	43.9	39.9	37.1	35.6	33.8	32.4	30.9	31.7
1990 .....	31.3	31.3	30.6	27.0	21.2	18.0	<sup>P</sup> 19.4	<sup>P</sup> 15.8				
1991 .....												

<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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1969) and all seasonally adjusted data (beginning January 1986) are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Alabama</b> .....	1,606.0	1,650.8	1,626.8	12.4	13.3	13.0	79.2	79.0	75.6
Birmingham .....	412.7	425.3	420.4	5.8	5.7	5.6	23.0	23.2	22.9
Huntsville .....	133.1	137.5	135.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	5.4	5.5
Mobile .....	171.3	181.1	179.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.4	10.9	11.9
Montgomery .....	132.1	137.8	135.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.9	7.4	7.3
Tuscaloosa .....	65.6	67.3	66.3	3.0	3.4	3.4	3.9	4.3	4.0
<b>Alaska</b> .....	214.1	228.2	221.4	9.9	11.1	10.8	7.2	9.0	7.9
<b>Arizona</b> .....	1,455.5	1,536.8	1,508.0	12.1	12.6	12.6	79.8	81.5	79.1
Phoenix .....	961.5	1,016.6	999.8	.8	.7	.7	53.5	54.8	52.7
Tucson .....	250.4	260.6	254.4	2.1	2.3	2.2	14.3	14.4	14.4
<b>Arkansas</b> .....	895.2	939.1	921.0	4.1	4.0	3.7	33.8	37.7	33.7
Fayetteville-Springdale .....	54.2	57.1	55.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.6
Fort Smith .....	76.7	79.7	78.6	1.0	.9	.8	2.6	2.7	2.5
Little Rock-North Little Rock .....	247.2	256.7	252.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.8	11.0	10.2
Pine Bluff .....	34.0	34.1	33.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.3	1.2
<b>California</b> .....	12,633.1	13,013.8	12,780.6	38.8	38.6	38.0	645.2	645.0	613.5
Anaheim-Santa Ana .....	1,195.4	1,226.9	1,204.9	1.3	1.3	1.2	68.9	63.0	59.1
Bakersfield .....	168.4	174.2	172.9	13.6	14.3	14.3	10.8	11.3	11.2
Fresno .....	218.4	240.1	235.8	.6	.6	.6	13.1	14.8	13.8
Los Angeles-Long Beach .....	4,239.1	4,337.7	4,256.7	8.4	8.3	8.2	157.2	158.8	152.3
Modesto .....	115.2	121.4	119.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.3	8.0	8.0
Oakland .....	882.2	919.7	901.7	3.4	3.0	2.8	50.0	51.3	48.7
Oxnard-Ventura .....	231.6	238.6	234.6	2.4	2.2	2.1	17.2	17.2	16.9
Riverside-San Bernardino .....	717.6	763.4	753.6	1.4	1.4	1.4	64.5	63.6	59.9
Sacramento .....	614.1	638.8	628.8	.6	.5	.5	37.2	38.3	35.4
San Diego .....	976.9	1,002.1	986.5	.7	.7	.7	62.1	59.7	57.3
San Francisco .....	961.2	993.7	974.4	.6	.6	.6	35.1	38.2	35.8
San Jose .....	825.0	832.2	823.3	.2	.2	.2	33.0	33.9	32.2
Santa Barbara-Santa Maria-Lompoc .....	149.5	152.7	151.5	1.2	1.2	1.2	7.3	7.2	7.2
Santa Rosa-Petaluma .....	138.6	150.8	148.4	.5	.5	.5	10.1	10.6	10.1
Stockton .....	149.4	156.2	154.3	.1	.1	.1	8.9	9.4	8.8
Vallejo-Fairfield-Napa .....	136.1	142.5	139.9	.5	.6	.5	10.4	11.7	10.9
<b>Colorado</b> .....	1,478.1	1,554.5	1,529.2	19.3	20.2	20.1	55.5	63.2	59.5
Boulder-Longmont .....	113.9	119.9	116.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.6	3.3
Denver .....	813.9	852.9	840.8	10.8	11.0	11.1	29.0	33.9	31.5
<b>Connecticut</b> .....	1,633.9	1,654.7	1,610.9	.9	1.0	.7	60.7	58.6	51.7
Bridgeport-Milford .....	193.9	193.2	188.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.8	6.8	6.2
Hartford .....	477.6	479.2	473.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.6	15.4	13.4
New Britain .....	63.9	63.7	62.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.7	3.7	3.1
New Haven-Meriden .....	255.8	260.5	253.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.2	9.3	8.2
Stamford .....	120.2	121.6	118.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.1	3.7
Waterbury .....	84.8	84.6	81.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.4	3.5	2.9
<b>Delaware</b> .....	335.1	344.9	340.0	.1	.1	.1	18.8	19.3	17.8
Wilmington .....	290.5	298.1	294.0	.2	.2	.2	16.2	17.0	15.5
<b>District of Columbia</b> .....	677.2	689.7	680.6	.1	.1	.1	14.2	14.4	14.0
Washington MSA .....	2,206.9	2,253.2	2,199.1	1.2	1.2	1.1	135.7	125.8	118.8
<b>Florida</b> .....	5,332.3	5,467.5	5,399.0	9.1	8.4	8.3	329.9	299.9	288.0
Daytona Beach .....	121.7	126.3	124.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.1	7.7	7.5
Fort Lauderdale-Hollywood-Pompano Beach .....	512.4	526.7	523.0	.3	.2	.2	33.2	33.0	31.8
Fort Myers-Cape Coral .....	128.3	134.3	134.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	13.1	12.5	12.1
Gainesville .....	99.5	102.8	100.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.3	3.9	4.0
Jacksonville .....	416.0	431.3	423.8	.7	.7	.7	26.2	23.6	23.3
Lakeland-Winter Haven .....	157.5	159.9	158.5	4.1	3.8	3.7	8.5	8.7	8.3
Melbourne-Titusville-Palm Bay .....	163.0	166.3	164.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.3	8.7	8.5
Miami-Hialeah .....	876.3	898.8	891.0	.9	.8	.8	39.3	37.5	37.0
Orlando .....	553.3	574.1	565.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	37.0	35.4	34.5
Pensacola .....	127.6	131.2	128.8	.4	.4	.4	7.9	7.5	7.3
Sarasota .....	116.3	121.7	121.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.8	9.3	9.2
Tallahassee .....	122.0	128.1	125.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.6	5.5	5.4
Tampa-St. Petersburg-Clearwater .....	870.2	896.5	888.7	.6	.6	.5	50.0	48.1	47.0
West Palm Beach-Boca Raton-DeRay Beach .....	363.6	371.5	369.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	27.0	24.2	23.0

See footnotes at end of table.



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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Alabama</b> .....	381.9	381.8	379.0	82.3	84.3	83.9	348.3	364.8	350.9
Birmingham .....	56.1	56.6	56.6	32.6	32.7	32.5	99.3	101.5	97.8
Huntsville .....	33.1	33.4	33.2	3.1	3.2	3.2	24.6	26.1	24.9
Mobile .....	26.8	28.0	27.4	10.0	10.1	10.0	45.3	48.4	46.7
Montgomery .....	17.4	18.1	17.8	5.5	5.9	5.8	30.7	31.7	30.2
Tuscaloosa .....	10.2	10.1	10.1	2.0	2.1	2.1	13.6	14.6	14.0
<b>Alaska</b> .....	11.4	11.3	11.9	18.1	19.7	19.2	42.6	46.4	43.9
<b>Arizona</b> .....	185.8	184.8	183.2	80.4	83.7	82.3	364.4	388.9	380.2
Phoenix .....	138.7	137.3	136.2	57.0	60.3	59.1	244.0	262.9	256.3
Tucson .....	26.8	26.4	26.3	9.6	9.6	9.4	59.7	62.1	60.9
<b>Arkansas</b> .....	229.6	232.0	231.7	54.6	57.1	56.4	200.7	210.9	204.5
Fayetteville-Springdale .....	13.8	13.9	14.0	4.8	4.9	5.0	11.9	12.7	12.3
Fort Smith .....	24.1	24.3	24.6	4.3	4.8	4.8	16.5	16.8	16.2
Little Rock-North Little Rock .....	33.2	33.0	33.0	16.5	16.6	16.3	60.2	62.5	61.0
Pine Bluff .....	6.4	6.1	6.1	2.7	2.7	2.6	7.3	7.5	7.2
<b>California</b> .....	2,111.7	2,087.8	2,061.8	616.6	638.1	628.7	2,988.0	3,109.1	3,008.4
Anaheim-Santa Ana .....	252.0	251.9	250.0	36.6	38.6	38.2	299.6	309.5	300.8
Bakersfield .....	10.7	10.9	10.8	8.0	8.5	8.2	40.2	41.3	40.4
Fresno .....	23.6	26.0	25.3	12.3	13.2	12.9	56.1	61.8	59.3
Los Angeles-Long Beach .....	860.6	840.0	830.6	217.0	224.8	221.5	963.7	996.9	960.0
Modesto .....	23.1	24.5	23.9	4.8	5.3	5.3	30.1	32.4	31.5
Oakland .....	111.8	113.7	113.2	60.0	63.1	62.4	218.1	230.2	223.5
Oxnard-Ventura .....	33.1	31.7	31.6	11.9	12.6	12.3	56.6	60.5	58.4
Riverside-San Bernardino .....	88.2	90.8	90.2	34.3	36.5	35.1	179.2	193.9	189.9
Sacramento .....	43.7	45.4	44.8	27.6	29.0	28.5	143.8	151.8	146.8
San Diego .....	137.0	135.4	134.6	36.5	37.5	37.1	235.1	241.3	234.8
San Francisco .....	80.0	78.7	79.0	77.5	79.1	78.2	214.0	219.4	212.8
San Jose .....	265.6	260.3	259.2	22.2	23.5	23.1	169.1	172.5	168.8
Santa Barbara-Santa Maria-Lompoc .....	21.8	21.7	21.7	5.5	5.6	5.5	34.2	35.3	34.5
Santa Rosa-Petaluma .....	20.9	21.8	21.5	6.3	7.1	6.9	35.8	40.2	39.2
Stockton .....	22.6	23.6	23.5	8.5	8.8	8.6	35.6	36.8	36.1
Vallejo-Fairfield-Napa .....	12.1	12.7	12.1	4.8	5.1	5.0	33.9	36.4	35.5
<b>Colorado</b> .....	192.1	193.8	192.9	95.2	98.5	97.0	363.0	383.7	375.2
Boulder-Longmont .....	30.3	30.6	30.2	2.3	2.4	2.4	24.1	26.0	24.8
Denver .....	94.1	94.1	94.0	69.6	71.1	70.0	201.4	211.2	206.8
<b>Connecticut</b> .....	349.0	337.6	334.9	72.9	74.6	73.4	368.4	378.1	361.7
Bridgeport-Milford .....	52.1	48.7	48.5	8.1	8.7	8.3	44.5	44.6	43.3
Hartford .....	84.0	84.2	82.9	19.3	19.6	19.2	104.6	104.8	102.5
New Britain .....	18.3	18.1	18.3	3.3	3.4	3.3	13.5	13.8	13.3
New Haven-Meriden .....	45.4	43.6	43.4	17.4	17.5	17.0	56.9	55.7	54.6
Stamford .....	20.1	19.4	19.1	6.0	6.3	6.2	27.9	28.8	28.0
Waterbury .....	21.3	19.4	18.4	3.4	3.4	3.4	17.9	17.9	17.4
<b>Delaware</b> .....	68.3	69.7	71.3	15.1	15.7	15.2	74.1	77.4	74.2
Wilmington .....	59.9	59.5	61.2	16.3	17.2	16.9	60.9	63.2	60.0
<b>District of Columbia</b> .....	15.8	15.6	15.4	24.1	23.7	23.5	60.3	62.1	59.4
Washington MSA .....	88.2	86.4	85.5	107.2	109.9	107.3	429.2	447.7	426.9
<b>Florida</b> .....	531.3	514.0	510.7	270.9	281.7	275.4	1,450.7	1,494.9	1,459.9
Daytona Beach .....	12.4	12.2	12.1	4.1	4.4	4.3	35.7	37.0	36.2
Fort Lauderdale-Hollywood-Pompano Beach .....	43.4	43.7	43.3	23.3	23.7	23.3	152.9	156.4	154.5
Fort Myers-Cape Coral .....	6.0	5.9	5.9	5.4	5.8	5.8	38.8	42.0	41.7
Gainesville .....	5.6	5.6	5.6	2.0	2.0	1.9	21.5	22.1	21.5
Jacksonville .....	37.4	36.0	35.6	28.2	29.9	28.9	110.4	118.7	114.8
Lakeland-Winter Haven .....	23.6	23.0	23.1	7.5	7.6	7.5	44.0	45.0	44.4
Melbourne-Titusville-Palm Bay .....	30.2	30.7	30.3	4.4	4.6	4.6	37.9	39.1	38.5
Miami-Hialeah .....	88.7	87.9	87.5	70.4	73.4	72.0	238.1	246.2	241.4
Orlando .....	54.9	53.2	52.9	29.1	30.2	29.3	146.0	150.7	147.4
Pensacola .....	11.8	11.4	11.3	6.7	6.4	6.4	31.6	33.3	32.0
Sarasota .....	8.5	8.8	8.6	3.6	3.7	3.7	35.0	35.9	35.5
Tallahassee .....	4.8	4.5	4.5	3.1	3.2	3.1	26.4	27.9	27.2
Tampa-St. Petersburg-Clearwater .....	93.8	90.9	90.3	40.9	42.5	41.7	240.7	249.2	246.6
West Palm Beach-Boca Raton-Delray Beach .....	34.1	33.2	33.2	14.1	15.0	14.9	99.0	101.5	100.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Alabama</b> .....	72.9	74.8	74.4	305.6	322.6	320.3	323.4	330.2	329.7
Birmingham .....	30.2	30.9	31.1	101.0	107.9	106.8	64.7	66.8	67.1
Huntsville .....	3.8	4.0	3.9	31.7	33.5	33.2	31.6	31.9	31.7
Mobile .....	8.0	8.0	8.0	41.4	43.7	43.7	29.4	32.0	31.6
Montgomery .....	8.1	8.6	8.5	29.5	31.1	30.9	34.0	35.0	35.1
Tuscaloosa .....	2.1	2.1	2.1	10.2	9.8	9.8	20.6	20.9	20.8
<b>Alaska</b> .....	10.0	10.2	10.2	46.7	49.7	48.9	68.2	70.8	68.6
<b>Arizona</b> .....	92.7	95.8	95.3	391.0	416.2	413.6	249.3	273.3	261.7
Phoenix .....	73.8	76.4	76.1	266.1	283.2	281.0	127.6	141.0	137.7
Tucson .....	11.7	11.8	11.6	71.9	76.0	76.4	54.3	58.0	53.2
<b>Arkansas</b> .....	37.6	38.4	38.0	178.3	195.1	192.7	156.5	163.9	160.3
Fayetteville-Springdale .....	1.6	1.7	1.7	9.3	9.9	9.8	11.1	12.3	11.4
Fort Smith .....	2.7	2.7	2.7	17.2	18.9	18.6	8.3	8.6	8.4
Little Rock-North Little Rock .....	15.4	15.7	15.6	63.8	67.5	66.5	48.3	50.4	49.8
Pine Bluff .....	1.3	1.2	1.2	7.3	7.2	7.2	7.4	8.1	7.9
<b>California</b> .....	835.6	849.1	843.2	3,350.9	3,540.9	3,490.0	2,046.3	2,105.2	2,097.0
Anaheim-Santa Ana .....	99.9	103.5	103.2	313.6	330.1	324.4	123.5	129.0	128.0
Bakersfield .....	6.5	6.9	6.9	35.2	36.3	35.9	43.4	44.7	45.2
Fresno .....	12.7	13.8	13.8	50.4	55.4	54.7	49.6	54.5	55.4
Los Angeles-Long Beach .....	288.4	294.6	293.0	1,207.6	1,273.7	1,251.9	536.2	540.6	539.2
Modesto .....	4.8	4.9	4.9	23.8	25.1	24.6	20.3	21.2	21.0
Oakland .....	56.8	57.8	57.5	216.2	231.4	226.0	165.9	169.2	167.6
Oxnard-Ventura .....	12.7	12.1	12.0	55.1	57.6	56.8	42.6	44.7	44.5
Riverside-San Bernardino .....	31.0	33.8	33.7	172.6	189.0	189.0	146.4	154.4	154.4
Sacramento .....	39.5	42.0	41.7	138.3	145.0	144.4	183.4	186.8	186.7
San Diego .....	67.0	67.2	66.7	264.4	279.2	274.8	174.1	181.1	180.5
San Francisco .....	108.3	108.6	108.4	308.7	326.4	319.8	137.0	142.7	139.8
San Jose .....	32.4	32.6	32.4	213.8	219.5	217.8	88.7	89.7	89.6
Santa Barbara-Santa Maria-Lompoc .....	8.5	8.6	8.6	42.0	44.0	43.6	29.0	29.1	29.2
Santa Rosa-Petaluma .....	8.4	8.9	8.9	32.7	36.7	36.3	23.9	25.0	25.0
Stockton .....	9.5	9.5	9.5	32.0	33.7	33.3	32.2	34.3	34.4
Vallejo-Fairfield-Napa .....	5.0	5.3	5.3	30.8	33.1	32.8	38.6	37.6	37.8
<b>Colorado</b> .....	96.1	97.7	97.8	389.1	411.3	408.7	267.8	286.1	278.0
Boulder-Longmont .....	4.2	4.2	4.2	27.2	29.1	29.0	22.3	24.0	22.9
Denver .....	63.2	64.7	64.9	221.4	233.7	231.3	124.4	133.2	131.2
<b>Connecticut</b> .....	151.2	149.9	149.1	421.4	439.4	430.1	209.4	215.5	209.3
Bridgeport-Milford .....	12.0	11.3	11.4	50.1	53.2	51.2	20.3	19.9	19.7
Hartford .....	74.6	74.3	73.9	115.4	116.5	116.8	83.1	64.4	64.3
New Britain .....	3.6	2.8	2.8	14.9	14.8	14.5	6.6	7.1	6.8
New Haven-Meriden .....	16.7	16.6	16.6	76.8	85.6	81.8	32.4	32.2	31.9
Stamford .....	13.8	14.1	14.0	37.5	38.2	37.1	10.8	10.7	10.4
Waterbury .....	4.7	4.5	4.6	21.2	22.5	22.0	12.7	13.4	13.1
<b>Delaware</b> .....	30.6	31.8	31.9	81.4	84.4	83.0	46.7	46.5	46.5
Wilmington .....	27.3	28.7	28.8	72.7	75.3	74.2	37.0	37.0	37.2
<b>District of Columbia</b> .....	33.8	33.2	32.8	253.0	263.4	257.7	275.9	277.2	277.7
Washington MSA .....	130.3	130.0	128.8	734.1	760.2	746.6	581.0	592.0	584.1
<b>Florida</b> .....	367.0	368.2	364.0	1,544.4	1,629.6	1,627.2	829.0	870.8	865.5
Daytona Beach .....	5.7	5.7	5.7	35.0	37.0	36.9	20.7	22.3	21.8
Fort Lauderdale-Hollywood-Pompano Beach .....	40.5	40.7	40.5	152.3	157.8	158.8	66.5	71.2	70.6
Fort Myers-Cape Coral .....	9.2	9.3	9.2	36.4	37.9	38.5	19.3	20.8	20.8
Gainesville .....	4.5	4.6	4.6	25.3	26.0	26.0	36.2	38.5	37.2
Jacksonville .....	40.8	42.6	42.2	109.5	114.4	113.5	62.8	65.4	64.8
Lakeland-Winter Haven .....	9.1	9.1	9.0	38.0	38.5	38.5	22.7	24.2	24.0
Melbourne-Titusville-Palm Bay .....	5.8	5.7	5.6	51.9	53.8	53.4	23.4	23.7	23.7
Miami-Hialeah .....	70.3	70.6	70.0	248.8	259.6	259.9	119.8	122.8	122.4
Orlando .....	32.0	32.3	32.1	190.1	204.9	203.2	64.1	67.3	66.2
Pensacola .....	5.4	5.6	5.6	33.0	35.0	34.9	30.8	31.6	30.9
Sarasota .....	8.3	8.3	8.3	37.8	41.6	41.7	13.2	14.1	14.0
Tallahassee .....	5.1	5.3	5.3	26.6	27.9	28.0	50.2	53.5	52.0
Tampa-St. Petersburg-Clearwater .....	64.0	64.5	64.0	265.7	282.9	282.8	114.5	117.8	115.8
West Palm Beach-Boca Raton-Delray Beach .....	28.8	28.4	28.4	114.9	121.2	121.5	45.7	48.0	47.6

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	Total			Mining			Construction		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Georgia</b> .....	2,937.8	3,019.7	2,965.4	8.6	8.6	8.6	140.7	143.1	135.2
Albany .....	49.4	51.6	51.3	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	2.4	3.1	3.0
Athens .....	67.8	69.0	68.0	.1	.1	.1	2.5	2.6	2.6
Atlanta .....	1,451.9	1,499.9	1,473.2	1.2	1.1	1.1	65.4	65.1	60.9
Augusta .....	177.4	185.0	182.8	.5	.6	.6	16.6	18.3	18.1
Columbus .....	94.9	97.3	96.7	.1	.1	.1	5.3	5.6	5.4
Macon-Warner Robins .....	125.4	130.5	128.2	.2	.2	.1	5.4	5.0	4.9
Savannah .....	109.6	115.9	114.8	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	8.5	11.1	11.1
<b>Hawaii</b> .....	513.3	540.0	533.1	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	30.5	33.1	32.7
Honolulu .....	399.2	417.8	412.2	( <sup>?</sup> )	( <sup>?</sup> )	( <sup>?</sup> )	23.2	24.5	24.2
<b>Idaho</b> .....	364.3	395.5	384.3	3.5	3.8	3.7	14.5	19.7	17.1
Boise City .....	100.5	108.4	105.4	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	5.1	6.3	5.6
<b>Illinois</b> .....	5,160.6	5,300.3	5,216.4	19.2	19.6	19.3	193.9	212.6	194.5
Aurora-Elgin .....	145.9	151.9	148.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	7.4	9.0	8.3
Bloomington-Normal .....	64.8	66.5	65.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.6	1.7	1.5
Champaign-Urbana-Rantoul .....	87.1	93.2	88.7	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.2	2.5	2.2
Chicago .....	3,149.0	3,203.3	3,157.9	2.0	2.0	2.0	117.3	123.9	115.7
Davenport-Rock Island-Moline .....	159.0	164.6	161.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	4.6	5.4	4.9
Decatur .....	52.5	54.6	52.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.8	3.2	2.8
Joliet .....	102.7	107.6	104.1	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	6.6	8.2	8.9
Kankakee .....	34.9	36.4	35.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.5	1.7	1.7
Lake County .....	209.4	219.7	214.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	10.3	11.7	10.4
Peoria .....	146.8	150.9	147.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	6.4	7.6	7.2
Rockford .....	134.4	138.5	135.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	4.5	5.9	5.5
Springfield .....	103.6	106.8	105.2	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.8	3.7	3.3
<b>Indiana</b> .....	2,462.7	2,543.4	2,497.8	7.6	8.0	7.4	103.2	119.8	110.3
Anderson .....	49.2	51.1	50.3	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.3	1.4	1.3
Bloomington .....	55.5	56.5	56.2	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.0	2.2	2.1
Elkhart-Goshen .....	99.3	101.7	100.1	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.9	3.6	3.3
Evansville .....	131.9	137.3	134.8	2.1	2.0	1.9	6.5	7.0	6.2
Fort Wayne .....	198.3	204.4	199.4	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	8.8	9.8	9.0
Gary-Hammond .....	241.8	250.7	246.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	13.7	16.1	15.1
Indianapolis .....	654.0	679.1	669.7	.8	.8	.8	33.1	38.2	35.7
Kokomo .....	45.0	46.3	45.4	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.1	1.4	1.2
Lafayette-West Lafayette .....	69.7	72.3	70.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	2.5	2.8	2.4
Muncie .....	53.3	55.8	53.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.9	2.3	2.1
South Bend-Mishawaka .....	117.1	121.8	119.6	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	5.4	7.2	6.4
Terre Haute .....	57.3	60.1	59.0	.5	.5	.5	2.1	2.7	2.4
<b>Iowa</b> .....	1,188.0	1,237.1	1,208.7	1.6	2.0	1.7	34.5	42.4	36.5
Cedar Rapids .....	92.6	95.6	93.5	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.6	4.5	4.4
Des Moines .....	225.8	235.4	232.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	7.5	9.6	9.1
Dubuque .....	43.5	45.5	44.2	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.2	1.7	1.5
Iowa City .....	55.0	58.7	56.1	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.3	1.7	1.5
Sioux City .....	54.7	56.0	55.0	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.8	2.4	2.2
Waterloo-Cedar Falls .....	67.6	72.3	70.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.9	2.4	2.1
<b>Kansas</b> .....	1,062.3	1,097.0	1,073.2	9.5	10.5	10.2	36.6	41.0	36.6
Lawrence .....	35.5	37.9	35.9	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	1.3	1.7	1.4
Topeka .....	90.8	90.7	88.8	( <sup>!</sup> )	( <sup>!</sup> )	( <sup>!</sup> )	3.3	3.0	2.8
Wichita .....	238.9	245.8	243.6	1.8	2.1	2.0	8.3	10.3	8.9
<b>Kentucky</b> .....	1,430.7	1,497.0	1,472.2	34.8	35.6	35.3	60.0	67.7	63.8
Lexington-Fayette .....	193.7	198.9	196.0	.2	.2	.2	9.4	10.6	9.6
Louisville .....	463.3	489.9	480.4	.5	.5	.5	21.3	23.4	22.5
Owensboro .....	36.0	37.1	36.2	.4	.5	.5	2.2	2.3	2.1
<b>Louisiana</b> .....	1,544.1	1,622.8	1,611.6	54.2	56.0	56.0	86.5	93.9	93.1
Alexandria .....	45.9	46.7	46.4	.1	.1	.1	2.8	3.1	2.9
Baton Rouge .....	229.2	238.2	235.7	.8	.8	.8	28.4	26.8	26.9
Houma-Thibodaux .....	55.3	58.7	57.6	5.4	5.7	5.6	1.7	2.0	2.0
Lafayette .....	91.4	100.3	98.2	11.8	13.3	13.2	3.7	4.6	4.4
Lake Charles .....	64.0	66.6	66.1	1.3	1.4	1.3	4.8	5.7	5.6
Monroe .....	57.5	59.2	58.2	.4	.4	.4	2.6	2.7	2.7
New Orleans .....	524.7	544.8	538.3	13.7	14.0	14.1	21.5	23.9	23.7
Shreveport .....	127.6	134.0	133.1	3.1	3.2	3.1	5.4	6.1	5.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Jan. 1990	Dec. 1990	Jan. 1991P	Jan. 1990	Dec. 1990	Jan. 1991P	Jan. 1990	Dec. 1990	Jan. 1991P
<b>Georgia</b> .....	560.4	550.6	545.0	193.3	199.9	198.8	729.0	763.6	737.9
Albany .....	7.9	8.3	8.3	2.8	2.9	2.9	12.0	12.4	12.2
Athens .....	15.5	15.0	14.9	1.9	1.9	1.9	15.1	16.0	15.6
Atlanta .....	174.0	170.9	168.8	125.9	130.9	130.4	396.8	414.2	401.6
Augusta .....	40.1	41.3	41.2	4.6	4.7	4.7	37.8	41.1	39.2
Columbus .....	20.4	20.2	20.3	3.3	3.1	3.1	20.5	20.6	20.4
Macon-Warner Robins .....	18.5	18.7	18.7	5.1	5.2	5.2	28.4	30.8	28.9
Savannah .....	17.2	17.4	17.5	9.1	9.5	9.6	26.5	27.9	26.7
<b>Hawaii</b> .....	21.0	20.6	20.7	40.7	43.0	42.6	133.3	138.6	135.7
Honolulu .....	15.9	15.5	15.7	33.0	35.1	35.0	100.7	104.7	102.4
<b>Idaho</b> .....	60.4	63.5	62.7	19.0	20.3	19.6	93.0	100.7	97.1
Boise City .....	15.0	16.2	18.1	5.6	5.8	5.8	25.9	27.6	26.5
<b>Illinois</b> .....	960.9	976.2	970.3	304.5	309.3	308.7	1,245.5	1,266.9	1,254.6
Aurora-Elgin .....	36.9	38.3	38.2	3.6	3.7	3.7	39.3	41.8	40.6
Bloomington-Normal .....	7.7	7.9	7.7	3.0	3.1	3.1	14.6	15.6	14.7
Champaign-Urbana-Rantoul .....	9.4	9.8	9.7	2.3	2.3	2.3	19.0	20.0	18.6
Chicago .....	558.4	557.1	551.6	204.9	208.9	207.3	758.2	775.0	758.4
Davenport-Rock Island-Moline .....	32.1	32.1	31.9	7.1	7.3	7.3	45.9	48.8	47.1
Decatur .....	14.5	14.4	14.2	4.2	4.3	4.3	11.4	12.3	11.5
Joliet .....	19.6	19.6	19.5	8.4	8.5	8.5	24.5	25.4	24.6
Kankakee .....	5.6	5.7	5.8	2.1	2.2	2.1	6.7	9.1	8.8
Lake County .....	47.8	48.6	48.5	5.8	5.9	5.9	56.7	60.4	58.3
Peoria .....	34.3	33.8	33.1	7.1	7.0	7.1	34.8	35.7	35.2
Rockford .....	48.3	48.3	47.9	4.7	4.8	4.8	29.0	30.3	29.3
Springfield .....	4.3	4.3	4.3	4.8	4.8	4.8	23.4	24.0	23.3
<b>Indiana</b> .....	628.2	624.5	620.1	129.7	133.4	129.9	589.5	613.6	597.1
Anderson .....	16.4	16.0	16.0	1.2	1.2	1.2	11.5	12.5	12.0
Bloomington .....	9.6	9.4	9.4	1.6	1.7	1.7	12.4	13.2	13.0
Elkhart-Goshen .....	50.2	49.7	49.1	3.3	3.4	3.3	18.7	19.1	18.5
Evansville .....	30.3	30.2	29.9	7.0	7.0	6.9	34.8	36.8	35.9
Fort Wayne .....	50.4	48.3	48.0	13.2	13.9	13.5	51.4	53.0	51.1
Gary-Hammond .....	57.0	57.0	58.8	16.5	16.5	16.3	57.5	60.2	58.9
Indianapolis .....	108.1	109.7	109.2	42.4	44.0	43.2	168.9	176.4	172.5
Kokomo .....	18.0	17.4	17.3	1.4	1.4	1.3	10.1	10.8	10.5
Lafayette-West Lafayette .....	13.7	13.9	13.9	1.9	2.0	2.0	14.5	15.2	14.7
Muncie .....	11.0	11.2	11.2	2.6	2.7	2.7	12.6	13.4	12.7
South Bend-Mishawaka .....	22.1	21.7	21.5	5.5	5.7	5.6	30.7	31.9	31.3
Terre Haute .....	10.6	10.9	10.8	2.8	2.8	2.7	15.5	16.6	16.3
<b>Iowa</b> .....	234.7	234.8	232.2	55.3	55.9	55.2	299.4	313.0	303.6
Cedar Rapids .....	23.0	21.9	21.5	6.0	6.0	6.1	21.9	23.1	22.2
Des Moines .....	26.1	26.6	26.4	12.9	12.5	12.2	58.5	60.3	59.3
Dubuque .....	12.2	12.2	11.9	1.6	1.7	1.7	10.3	10.8	10.4
Iowa City .....	4.5	4.4	4.4	1.4	1.4	1.4	10.5	11.2	10.7
Sioux City .....	11.1	10.8	10.5	3.3	3.2	3.1	14.0	14.5	14.1
Waterloo-Cedar Falls .....	15.6	17.0	16.9	1.8	1.8	1.8	16.3	17.1	16.7
<b>Kansas</b> .....	182.0	186.2	182.0	65.8	67.6	68.3	264.0	271.5	264.0
Lawrence .....	4.8	4.7	4.6	.9	1.0	.9	8.0	8.4	8.0
Topeka .....	9.3	9.5	9.5	7.2	6.9	6.8	20.3	19.9	18.9
Wichita .....	64.2	64.3	64.8	11.6	11.5	11.5	56.1	57.6	56.9
<b>Kentucky</b> .....	282.1	286.8	283.2	78.1	82.1	80.4	342.5	361.2	350.8
Lexington-Fayette .....	34.2	34.3	34.1	9.0	9.3	9.1	43.8	46.4	44.7
Louisville .....	86.5	90.1	87.7	30.0	31.8	30.4	116.2	124.7	121.4
Owensboro .....	6.5	6.6	6.5	2.1	2.3	2.3	9.6	9.7	9.4
<b>Louisiana</b> .....	176.7	186.2	184.3	109.4	110.6	110.2	360.6	382.1	375.5
Alexandria .....	3.5	3.2	3.2	2.3	2.3	2.3	10.5	10.7	10.6
Baton Rouge .....	21.7	23.1	23.2	10.8	11.2	11.3	52.1	54.8	54.1
Houma-Thibodaux .....	4.8	6.0	5.7	6.6	6.6	6.5	14.0	14.7	14.5
Lafayette .....	8.3	9.3	9.0	6.8	7.3	7.3	23.9	26.2	25.7
Lake Charles .....	11.9	11.4	11.5	4.0	4.3	4.2	14.9	15.5	15.2
Monroe .....	7.5	7.8	7.7	3.3	3.1	3.0	14.8	15.4	15.2
New Orleans .....	43.5	46.1	45.1	43.4	43.9	44.1	132.1	137.8	134.5
Shreveport .....	15.5	17.9	17.6	7.9	6.1	8.0	31.4	32.9	32.5

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Georgia</b> .....	162.1	163.4	162.9	617.2	650.6	638.1	526.5	539.9	539.0
Albany .....	2.1	2.1	2.2	8.7	9.1	9.1	13.5	13.6	13.6
Athens .....	2.1	2.2	2.1	10.7	11.0	10.7	19.9	20.3	20.1
Atlanta .....	107.7	108.3	108.1	363.5	381.9	374.5	217.4	227.4	227.8
Augusta .....	6.1	6.0	5.9	36.0	36.6	36.5	35.7	36.5	36.7
Columbus .....	6.1	6.3	6.2	18.2	20.5	20.0	21.0	21.0	21.1
Macon-Warner Robins .....	7.5	8.0	8.0	25.0	27.0	26.8	35.3	35.5	35.6
Savannah .....	4.7	5.1	5.1	26.4	27.9	27.8	17.2	16.9	16.9
<b>Hawaii</b> .....	35.6	37.5	37.2	151.0	157.8	157.7	101.2	109.4	106.3
Honolulu .....	28.7	30.0	29.8	113.4	118.8	116.9	84.3	91.2	88.2
<b>Idaho</b> .....	19.3	20.1	19.9	76.8	83.0	82.3	77.8	84.4	81.7
Boise City .....	7.9	8.3	8.2	22.1	24.3	23.3	18.9	19.9	19.9
<b>Illinois</b> .....	373.5	373.3	373.4	1,298.7	1,350.4	1,335.5	744.4	772.0	760.1
Aurora-Elgin .....	8.3	8.3	8.3	32.8	34.3	33.8	15.6	16.5	16.0
Bloomington-Normal .....	11.1	11.3	11.3	13.8	14.4	14.3	13.0	12.5	13.3
Champaign-Urbana-Rantoul .....	3.1	3.3	3.3	17.9	18.3	18.2	33.2	37.0	34.2
Chicago .....	266.1	265.9	265.5	870.4	890.0	884.1	371.7	380.5	373.3
Davenport-Rock Island-Moline .....	7.6	7.8	7.8	35.6	37.0	36.6	26.1	26.2	25.7
Decatur .....	2.3	2.3	2.3	11.9	12.2	12.1	5.4	5.9	5.6
Joliet .....	3.6	3.7	3.8	22.9	24.3	23.4	17.1	17.9	17.4
Kankakee .....	1.8	1.8	1.8	8.7	9.3	9.2	6.5	6.6	6.5
Lake County .....	13.1	13.2	13.3	45.2	47.5	46.4	30.5	32.4	31.5
Peoria .....	7.5	7.7	7.8	40.5	41.9	41.2	16.2	17.2	16.5
Rockford .....	5.8	5.6	5.6	30.0	31.2	30.4	12.3	12.4	12.3
Springfield .....	8.0	8.2	8.2	28.8	27.1	26.9	33.5	34.7	34.4
<b>Indiana</b> .....	120.7	123.3	122.8	510.6	537.2	533.5	373.2	383.7	376.7
Anderson .....	1.8	1.6	1.5	10.7	11.5	11.5	6.5	6.9	6.9
Bloomington .....	1.9	1.8	1.8	9.7	10.3	10.2	18.3	17.9	18.2
Elkhart-Goshen .....	3.0	2.8	2.8	15.2	16.6	16.5	6.0	6.5	6.6
Evansville .....	5.3	5.5	5.5	33.2	35.4	35.2	12.6	13.5	13.3
Fort Wayne .....	12.9	12.9	12.9	42.9	46.8	45.5	18.8	19.7	19.3
Gary-Hammond .....	8.3	8.5	8.5	55.7	58.8	58.2	33.1	33.7	33.2
Indianapolis .....	48.9	49.9	50.1	154.4	159.7	158.5	97.5	100.4	99.6
Kokomo .....	1.4	1.3	1.3	7.1	7.4	7.4	5.8	6.5	6.4
Lafayette-West Lafayette .....	3.1	3.0	3.0	12.8	13.0	12.9	21.1	22.3	21.1
Muncie .....	1.7	1.7	1.7	11.5	12.0	11.9	12.0	12.6	11.8
South Bend-Mishawaka .....	6.1	6.3	6.3	35.6	37.0	36.7	11.6	12.0	11.7
Terre Haute .....	2.1	2.1	2.1	12.6	12.8	12.8	11.1	11.8	11.5
<b>Iowa</b> .....	68.0	69.9	70.1	279.0	293.6	288.6	215.5	225.5	220.8
Cedar Rapids .....	4.8	4.8	4.8	22.9	23.5	23.2	10.4	11.8	11.3
Des Moines .....	31.0	32.0	32.1	58.4	61.8	61.7	31.4	32.6	32.1
Dubuque .....	1.5	1.5	1.6	13.2	13.6	13.3	3.5	4.0	3.8
Iowa City .....	1.4	1.4	1.4	9.5	9.8	9.8	26.4	26.8	26.9
Sioux City .....	2.5	2.5	2.6	15.5	16.2	16.2	6.5	6.4	6.3
Waterloo-Cedar Falls .....	2.9	3.2	3.1	16.1	17.2	16.8	13.0	13.6	13.4
<b>Kansas</b> .....	57.5	58.1	58.0	234.4	244.5	242.4	212.5	217.6	211.7
Lawrence .....	1.8	1.6	1.5	7.4	8.0	7.6	11.5	12.5	11.9
Topeka .....	6.5	6.4	6.3	22.4	22.9	22.8	21.8	22.1	21.7
Wichita .....	10.9	11.5	11.3	57.3	58.9	59.1	28.7	29.6	29.1
<b>Kentucky</b> .....	60.2	60.9	60.7	314.0	332.8	331.2	259.0	269.9	266.8
Lexington-Fayette .....	9.4	9.5	9.5	47.6	49.4	48.6	40.1	39.2	40.2
Louisville .....	27.5	27.9	27.8	118.4	126.3	125.3	82.9	65.2	64.8
Owensboro .....	1.5	1.5	1.5	8.2	8.6	8.4	5.5	5.6	5.5
<b>Louisiana</b> .....	78.5	78.9	78.8	360.3	380.6	378.8	317.9	334.3	334.9
Alexandria .....	2.2	2.1	2.1	11.7	12.3	12.3	12.8	12.9	12.9
Baton Rouge .....	12.8	13.0	13.0	51.4	54.5	54.5	51.2	54.0	51.9
Houma-Thibodaux .....	2.1	2.1	2.1	10.3	10.8	10.8	10.4	10.8	10.4
Lafayette .....	3.3	3.4	3.3	20.9	22.5	22.0	12.7	13.7	13.3
Lake Charles .....	2.7	2.6	2.6	13.7	14.6	14.5	10.7	11.1	11.2
Monroe .....	4.4	4.3	4.4	12.9	13.3	13.2	11.6	12.2	11.6
New Orleans .....	31.6	31.3	31.1	150.3	157.4	155.7	88.6	90.4	90.0
Shreveport .....	6.2	6.3	6.3	31.7	32.7	32.9	26.4	26.8	26.9

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Maine</b> .....	525.7	530.3	515.7	0.2	0.1	0.1	26.8	25.8	23.8
Lewiston-Auburn .....	39.7	39.8	38.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.8	1.7
Portland .....	129.1	129.0	125.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.9	5.5	5.0
<b>Maryland</b> .....	2,116.4	2,192.0	2,123.2	1.9	2.0	1.9	150.1	154.4	145.5
Baltimore MSA .....	1,127.7	1,160.4	1,126.7	.5	.5	.5	70.1	73.5	67.8
Baltimore City .....	459.0	470.5	460.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.6	18.4	16.8
Suburban Maryland-D.C. ....	762.0	789.1	784.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	65.4	66.0	63.2
<b>Massachusetts</b> .....	2,978.4	2,953.0	2,847.6	1.3	1.3	1.2	99.3	89.5	76.2
Boston .....	1,674.6	1,662.5	1,599.8	.6	.6	.5	51.7	47.8	41.7
Brockton .....	71.1	70.7	68.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.2	1.8
Fall River .....	53.8	53.0	51.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.6	1.3
Fitchburg-Leominster .....	39.6	38.0	36.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.3	1.1
Lawrence-Haverhill .....	155.7	153.6	148.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.6	5.3	4.4
Lowell .....	102.2	99.5	96.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.3	2.8
New Bedford .....	84.1	63.9	62.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	1.9	1.7
Pittsfield .....	42.2	42.5	40.3	.1	.1	.1	2.2	1.8	1.5
Springfield .....	235.0	234.5	228.4	.1	.1	.1	7.2	7.5	6.4
Worcester .....	195.2	190.7	183.7	.2	.2	.2	6.8	6.1	5.3
<b>Michigan</b> .....	3,842.9	3,972.9	3,853.0	9.7	9.4	9.5	127.5	132.9	118.2
Ann Arbor .....	172.9	186.2	181.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.3	3.8
Battle Creek .....	59.5	82.0	80.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.1	1.8
Benton Harbor .....	65.5	67.7	65.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.9	1.8
Detroit .....	1,895.0	1,959.4	1,885.8	1.0	1.1	.9	59.4	61.7	54.9
Flint .....	158.3	173.0	169.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	5.1	4.5
Grand Rapids .....	348.6	361.6	352.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.5	15.8	14.3
Jackson .....	53.8	55.5	54.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	2.2	2.0
Kalamazoo .....	112.3	117.7	114.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.9	3.6
Lansing-East Lansing .....	209.9	217.4	213.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	5.7	5.5
Muskegon .....	58.6	59.0	58.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.1
Saginaw-Bay City-Midland .....	151.9	167.5	162.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	8.3	7.5
<b>Minnesota</b> .....	2,070.3	2,138.3	2,089.3	7.3	7.9	7.3	65.8	71.2	62.2
Duluth .....	94.8	96.6	97.3	5.3	5.4	5.3	3.0	3.1	2.8
Minneapolis-St. Paul .....	1,341.5	1,379.4	1,347.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	43.2	46.2	40.4
Rochester .....	63.4	68.8	66.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.2	2.0
St. Cloud .....	76.7	80.6	78.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	3.3	2.6
<b>Mississippi</b> .....	916.4	947.2	932.9	6.0	6.1	6.0	34.0	36.4	33.3
Jackson .....	182.4	188.4	184.8	.7	.5	.6	7.1	7.5	7.0
<b>Missouri</b> .....	2,287.1	2,354.3	2,263.3	4.9	5.3	4.6	91.5	96.8	87.6
Kansas City .....	763.8	793.1	789.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.8	32.9	28.2
St. Louis .....	1,161.4	1,195.8	1,159.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	54.9	54.1	45.8
Springfield .....	118.8	124.1	121.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.5	4.4
<b>Montana</b> .....	284.2	299.4	292.8	5.7	6.3	6.0	7.9	9.5	7.6
<b>Nebraska</b> .....	704.4	749.8	737.3	1.2	1.6	1.4	22.3	27.4	25.2
Lincoln .....	117.7	125.0	121.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	4.1	3.4
Omaha .....	320.2	338.6	333.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.8	12.8	11.9
<b>Nevada</b> .....	595.9	641.6	630.4	13.8	14.7	14.6	44.8	49.9	46.9
Las Vegas .....	359.9	391.0	386.0	.2	.3	.3	33.1	38.1	34.6
Reno .....	139.2	147.3	142.5	1.4	1.5	1.5	7.0	7.5	6.7
<b>New Hampshire</b> .....	508.3	506.3	488.8	.3	.4	.3	22.7	19.0	16.4
Manchester .....	63.0	81.9	79.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	2.6	2.3
Nashua .....	90.5	88.7	84.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	2.7	2.1
Portsmouth-Dover-Rochester .....	109.2	112.8	106.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.3	2.7
<b>New Jersey</b> .....	3,615.5	3,685.3	3,588.8	2.2	2.4	2.2	142.6	141.1	124.9
Atlantic City .....	181.5	166.1	162.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.9	7.5	6.7
Bergen-Passaic .....	652.5	652.5	634.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.7	25.4	22.3
Camden .....	445.8	457.4	443.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.2	22.5	20.3
Jersey City .....	243.8	247.8	237.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.1	6.0	5.5
Middlesex-Somerset-Hunterdon .....	543.4	554.0	538.8	.6	.7	.5	20.9	21.8	19.6
Monmouth-Ocean .....	323.7	329.1	318.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.6	15.0	12.9
Newark .....	936.6	942.9	920.9	.7	.8	.7	33.0	33.5	31.1
Trenton .....	197.2	199.2	195.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.4	3.9
Vineland-Millville-Bridgeton .....	58.4	60.3	58.4	.4	.4	.4	2.0	2.0	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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Maine</b> .....	102.9	99.4	98.2	21.7	22.0	21.5	130.7	133.4	126.1
Lewiston-Auburn .....	9.0	8.0	8.1	1.3	1.4	1.3	10.3	11.1	10.1
Portland .....	18.7	15.6	16.0	5.7	6.7	6.6	39.1	40.2	37.9
<b>Maryland</b> .....	204.4	202.7	202.4	99.3	103.6	99.9	521.5	545.2	518.3
Baltimore MSA .....	127.8	128.9	128.0	55.2	56.3	54.8	267.2	274.9	262.9
Baltimore City .....	41.1	42.2	44.0	27.8	28.3	27.8	86.4	88.1	83.9
Suburban Maryland-D.C. ....	37.4	35.9	35.6	31.8	34.4	33.0	194.9	206.5	197.1
<b>Massachusetts</b> .....	535.2	506.7	501.6	129.3	126.7	124.1	708.9	707.5	686.4
Boston .....	246.0	231.8	229.3	74.2	74.4	71.9	379.0	373.2	353.3
Brockton .....	9.5	9.0	8.7	4.6	4.6	4.1	23.2	23.0	22.3
Fall River .....	14.1	13.8	13.5	2.0	1.9	1.9	14.6	14.0	13.1
Fitchburg-Leominster .....	11.8	10.8	10.6	1.5	1.4	1.3	10.3	9.9	9.3
Lawrence-Haverhill .....	45.0	42.9	42.0	6.6	6.3	6.1	35.8	37.0	35.1
Lowell .....	33.0	30.2	30.3	5.2	5.2	5.1	22.7	22.6	21.5
New Bedford .....	16.8	15.5	15.4	2.7	2.7	2.7	16.1	17.1	15.8
Pittsfield .....	10.0	9.1	8.7	1.3	1.2	1.2	9.8	10.3	9.7
Springfield .....	47.1	45.6	45.0	10.2	10.3	10.0	54.9	54.5	51.6
Worcester .....	41.7	39.4	38.8	9.3	8.9	8.7	48.8	46.3	44.1
<b>Michigan</b> .....	902.1	927.2	892.9	152.8	156.4	152.4	924.3	970.1	934.9
Ann Arbor .....	35.9	39.1	38.8	5.1	5.4	5.5	31.9	33.5	32.1
Battle Creek .....	16.4	18.2	15.7	1.6	1.6	1.6	12.8	13.5	13.1
Benton Harbor .....	21.8	21.7	21.2	2.6	2.7	2.7	13.5	14.1	13.4
Detroit .....	428.7	442.8	416.4	86.9	89.1	86.6	469.5	485.4	466.3
Flint .....	42.3	49.1	49.1	4.1	4.5	4.1	43.3	46.0	44.6
Grand Rapids .....	99.8	101.4	100.4	12.2	12.4	12.1	93.7	98.6	95.7
Jackson .....	13.0	12.6	12.4	3.8	3.8	3.8	13.0	13.9	13.3
Kalamazoo .....	29.0	29.1	28.7	3.3	3.4	3.4	25.9	27.6	28.4
Lansing-East Lansing .....	28.7	28.8	28.6	5.6	5.7	5.7	47.3	48.5	47.3
Muskegon .....	16.8	16.3	16.4	2.2	2.2	2.2	13.9	14.5	14.0
Saginaw-Bay City-Midland .....	36.2	43.5	43.2	6.2	6.4	6.1	38.7	43.2	40.9
<b>Minnesota</b> .....	391.5	392.8	388.5	108.5	109.8	107.3	504.5	523.3	504.0
Duluth .....	8.2	8.5	8.4	5.7	6.0	6.0	23.6	24.8	24.4
Minneapolis-St. Paul .....	258.9	257.2	254.6	75.5	77.4	75.5	324.9	333.6	320.8
Rochester .....	11.7	11.7	11.7	1.9	1.9	1.9	12.7	13.9	13.5
St. Cloud .....	13.5	14.5	14.5	3.7	3.9	3.8	23.4	24.2	23.3
<b>Mississippi</b> .....	240.3	245.0	243.1	44.0	45.6	44.3	193.8	204.7	198.1
Jackson .....	20.8	21.0	20.5	12.3	12.8	12.5	43.2	45.5	43.9
<b>Missouri</b> .....	434.4	433.2	419.3	151.3	155.4	153.2	549.5	570.1	545.1
Kansas City .....	107.1	110.3	103.9	62.1	63.8	62.9	198.9	204.2	197.2
St. Louis .....	220.9	221.9	213.7	76.9	78.5	77.8	279.7	289.6	278.7
Springfield .....	21.7	21.5	21.5	7.7	7.7	7.6	33.1	35.8	34.7
<b>Montana</b> .....	21.8	22.7	22.5	19.7	20.6	20.0	74.5	79.6	77.7
<b>Nebraska</b> .....	96.3	101.1	100.7	45.5	46.3	45.8	182.0	192.1	188.0
Lincoln .....	14.9	15.5	15.3	6.6	7.0	6.9	26.2	27.4	26.4
Omaha .....	36.0	37.7	37.9	23.7	23.6	23.4	80.6	84.9	81.4
<b>Nevada</b> .....	25.2	27.0	26.7	31.0	33.8	33.5	120.3	133.0	128.4
Las Vegas .....	10.1	10.8	10.6	18.2	20.3	20.2	73.9	80.4	77.8
Reno .....	8.6	9.0	8.8	9.6	10.0	9.9	32.3	35.5	33.9
<b>New Hampshire</b> .....	107.7	102.7	101.5	17.8	17.7	17.1	130.7	128.4	121.3
Manchester .....	11.5	11.0	11.0	4.7	4.7	4.7	22.5	21.7	20.8
Nashua .....	31.9	30.1	29.8	2.3	2.3	2.2	22.6	21.4	20.4
Portsmouth-Dover-Rochester .....	20.6	20.4	20.0	3.0	3.1	2.9	27.2	29.4	27.1
<b>New Jersey</b> .....	608.1	584.0	569.0	237.4	237.8	233.2	873.2	898.4	863.2
Atlantic City .....	7.9	7.4	7.0	6.9	7.0	7.0	32.5	34.7	32.8
Bergen-Passaic .....	137.6	131.8	129.0	30.3	30.1	30.1	188.0	190.6	183.0
Camden .....	68.6	65.8	64.8	19.2	19.5	19.2	122.3	128.0	120.5
Jersey City .....	38.2	37.0	34.6	31.1	30.2	28.6	62.6	64.7	61.0
Middlesex-Somerset-Hunterdon .....	109.5	105.8	103.5	43.1	42.7	42.2	135.2	138.3	131.8
Monmouth-Ocean .....	26.7	25.1	24.3	15.3	15.4	15.1	87.0	92.2	88.0
Newark .....	180.9	155.3	150.9	77.4	77.7	77.0	189.8	192.1	184.3
Trenton .....	27.5	25.9	25.5	7.2	7.4	7.1	31.6	32.6	31.6
Vineland-Millville-Bridgeton .....	15.3	15.2	14.6	2.2	2.5	2.4	11.3	11.7	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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Maine</b> .....	25.0	24.8	24.9	121.8	126.6	125.8	96.8	98.2	95.3
Lewiston-Auburn .....	2.3	2.3	2.3	10.7	10.8	10.6	4.3	4.4	4.4
Portland .....	12.0	12.3	12.3	32.9	32.6	31.7	15.8	16.1	15.6
<b>Maryland</b> .....	129.8	131.7	130.7	598.0	625.7	610.6	411.4	426.7	413.9
Baltimore MSA .....	75.8	75.8	75.4	317.5	333.6	325.1	213.6	218.9	212.2
Baltimore City .....	44.9	44.7	44.4	150.2	156.8	152.7	91.0	92.0	91.3
Suburban Maryland-D.C. ....	45.8	46.7	46.2	228.6	235.1	231.1	158.1	164.5	158.2
<b>Massachusetts</b> .....	214.5	212.3	210.2	890.3	917.3	882.2	399.6	391.7	385.7
Boston .....	147.1	143.4	141.3	573.2	593.9	566.5	202.8	197.4	195.3
Brockton .....	3.3	3.1	3.2	15.8	16.6	16.3	12.2	12.2	11.6
Fall River .....	3.6	3.4	3.2	10.8	11.3	11.2	7.1	7.0	6.9
Fitchburg-Leominster .....	1.4	1.4	1.4	8.4	8.6	8.4	4.8	4.6	4.5
Lawrence-Haverhill .....	6.0	5.9	5.7	35.5	36.1	34.8	21.2	20.3	20.1
Lowell .....	3.6	3.3	3.3	20.8	21.2	20.4	13.2	13.7	13.4
New Bedford .....	2.4	2.4	2.5	14.3	14.8	14.7	9.7	9.5	9.4
Pittsfield .....	2.0	1.9	1.8	12.0	13.3	12.4	4.8	4.8	4.9
Springfield .....	15.7	15.0	15.1	60.7	63.5	62.2	39.1	38.0	38.0
Worcester .....	13.9	13.9	13.8	50.4	52.0	49.2	24.1	23.9	23.6
<b>Michigan</b> .....	188.4	191.5	190.4	912.1	942.3	927.3	626.0	643.1	627.4
Ann Arbor .....	4.8	4.9	4.8	38.2	40.5	40.0	52.8	60.5	55.9
Battle Creek .....	3.2	3.5	3.4	12.4	13.3	13.0	11.2	11.9	11.4
Benton Harbor .....	2.5	2.6	2.8	14.9	15.5	15.1	8.6	9.2	8.8
Detroit .....	110.9	113.1	113.0	504.0	528.7	513.9	234.6	237.7	233.7
Flint .....	6.2	6.7	6.7	35.1	37.6	37.0	22.8	24.1	23.4
Grand Rapids .....	15.8	18.2	18.2	77.6	81.8	79.4	34.0	35.4	34.5
Jackson .....	1.7	1.8	1.7	10.4	11.2	10.8	10.0	10.2	10.0
Kalamazoo .....	5.2	5.3	5.4	27.3	28.9	28.6	17.9	19.4	18.3
Lansing-East Lansing .....	12.6	13.1	13.0	42.1	44.7	44.0	87.5	70.9	89.4
Muskegon .....	1.5	1.5	1.5	12.3	12.5	12.5	9.6	9.7	9.6
Saginaw-Bay City-Midland .....	6.0	6.5	6.5	36.5	38.8	36.0	20.8	20.9	20.6
<b>Minnesota</b> .....	123.0	124.9	124.0	534.9	560.1	551.5	336.8	348.3	344.5
Duluth .....	3.2	3.2	3.2	23.8	25.2	24.9	22.0	22.4	22.3
Minneapolis-St. Paul .....	98.0	97.2	96.4	358.3	375.8	370.5	184.3	191.4	189.2
Rochester .....	1.7	1.8	1.8	27.0	28.3	28.5	6.5	7.0	6.9
St. Cloud .....	2.4	2.5	2.5	17.2	18.4	18.0	13.6	13.8	13.7
<b>Mississippi</b> .....	38.8	38.9	38.8	155.4	162.2	161.1	204.1	208.2	208.4
Jackson .....	14.4	14.3	14.2	42.1	44.2	43.8	41.7	42.6	42.4
<b>Missouri</b> .....	136.8	138.7	137.8	554.7	577.8	568.0	364.2	377.0	367.7
Kansas City .....	58.8	59.5	59.2	189.4	198.6	196.5	117.7	123.8	121.8
St. Louis .....	75.7	76.0	75.5	311.4	327.8	323.8	141.9	147.9	144.4
Springfield .....	5.2	5.4	5.3	31.8	33.2	33.1	14.8	16.0	15.3
<b>Montana</b> .....	13.0	13.3	13.2	71.5	76.3	75.7	70.1	71.1	70.1
<b>Nebraska</b> .....	47.9	48.6	49.1	189.9	185.3	183.3	139.3	147.4	143.8
Lincoln .....	8.4	8.5	8.5	26.9	28.9	28.3	30.9	33.6	32.7
Omaha .....	26.5	28.6	29.1	93.7	102.8	101.4	46.9	48.2	48.0
<b>Nevada</b> .....	27.1	28.6	28.6	260.2	274.0	272.4	73.5	80.6	79.3
Las Vegas .....	17.6	18.8	18.8	168.7	182.1	182.5	38.1	42.2	41.2
Reno .....	6.9	7.2	7.3	55.8	57.2	55.9	17.6	19.4	18.5
<b>New Hampshire</b> .....	31.5	31.4	31.1	126.0	128.6	128.0	71.6	78.1	73.1
Manchester .....	8.4	8.5	8.5	23.4	24.1	23.6	8.9	9.3	9.0
Nashua .....	3.4	3.5	3.4	19.2	20.8	19.9	7.8	7.9	8.0
Portsmouth-Dover-Rochester .....	7.0	7.1	7.0	22.1	22.0	21.6	25.6	27.5	25.3
<b>New Jersey</b> .....	240.6	235.7	234.7	949.7	987.2	975.4	561.7	578.7	566.2
Atlantic City .....	6.6	6.5	6.5	71.9	77.3	75.4	26.8	27.7	26.9
Bergen-Passaic .....	38.4	36.9	36.7	162.0	168.0	163.2	69.5	71.7	69.7
Camden .....	24.8	24.4	24.1	112.7	118.5	116.5	76.2	78.7	77.8
Jersey City .....	16.3	18.5	16.3	49.1	51.4	50.3	40.2	42.0	40.9
Middlesex-Somerset-Hunterdon .....	42.4	41.7	41.8	118.0	125.2	123.4	73.7	77.8	76.2
Monmouth-Ocean .....	19.8	18.9	18.6	94.0	97.3	95.2	64.3	65.2	64.8
Newark .....	76.4	74.2	73.5	264.1	271.6	269.5	134.5	137.7	133.9
Trenton .....	11.1	11.2	11.1	58.8	61.1	60.3	58.3	56.6	56.1
Vineland-Milville-Bridgeton .....	4.2	4.5	4.4	10.6	11.1	11.0	12.4	12.9	12.8

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>New Mexico</b> .....	561.2	581.6	568.9	15.7	16.1	15.8	27.9	29.9	27.6
Albuquerque .....	240.0	247.5	243.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.7	12.4	11.8
Las Cruces .....	43.5	45.6	44.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.1	2.0
Santa Fe .....	57.8	60.8	59.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	3.2	2.9
<b>New York</b> .....	8,097.9	8,197.6	7,976.4	4.6	5.0	4.4	295.2	291.1	259.5
Albany-Schenectady-Troy .....	424.3	439.4	430.2	.3	.3	.2	17.7	18.1	16.2
Binghamton .....	118.2	119.5	117.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	4.7	4.2
Buffalo .....	447.8	465.1	453.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.6	17.8	15.6
Elmira .....	41.5	41.3	40.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.8	1.5
Glens Falls .....	45.9	46.2	45.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.0	1.7
Nassau-Suffolk .....	1,110.1	1,123.2	1,088.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	50.4	51.6	46.0
New York PMSA .....	4,071.9	4,088.4	3,987.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	139.5	133.4	123.1
New York City .....	3,553.6	3,562.7	3,476.8	.4	.2	.2	112.6	106.8	99.8
Niagara Falls .....	80.5	86.5	83.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	4.1	3.3
Orange County .....	105.2	105.6	103.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.0	3.4
Poughkeepsie .....	120.3	122.1	119.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	5.4	4.8
Rochester .....	480.3	492.9	482.4	.6	.8	.6	16.6	18.4	16.3
Rockland County .....	99.8	102.6	99.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.1	3.6
Syracuse .....	309.9	321.3	312.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.9	14.0	12.4
Utica-Rome .....	124.5	127.8	123.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.5	3.0
Westchester County .....	400.1	404.1	392.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.1	20.7	18.1
<b>North Carolina</b> .....	3,065.7	3,155.1	3,096.5	5.1	5.3	5.2	158.0	163.2	157.3
Asheville .....	85.6	89.5	86.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	4.6	4.5
Charlotte-Gastonia-Rock Hill .....	615.3	636.5	625.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	35.5	37.5	36.7
Greensboro-Winston-Salem-High Point .....	492.5	500.9	492.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.0	24.2	23.5
Raleigh-Durham .....	421.7	437.6	428.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.6	22.2	21.5
<b>North Dakota</b> .....	256.5	269.6	263.4	3.9	4.3	4.1	7.3	8.6	7.7
Bismarck .....	38.3	41.0	40.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.8	1.6
Fargo-Moorhead .....	75.5	80.2	78.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	3.3	2.8
Grand Forks .....	30.6	32.7	31.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.0	.9
<b>Ohio</b> .....	4,738.1	4,955.9	4,815.2	17.1	17.4	16.7	171.6	195.7	171.8
Akron .....	274.1	292.0	279.4	.6	.6	.6	9.0	10.3	8.8
Canton .....	162.0	167.5	163.5	.8	.8	.8	6.5	7.3	6.4
Cincinnati .....	721.3	757.6	737.1	.4	.4	.4	31.3	33.0	30.1
Cleveland .....	925.5	957.6	931.0	.8	.9	.8	29.9	34.3	29.4
Columbus .....	702.3	737.3	717.5	.8	1.0	1.0	26.4	28.9	25.6
Dayton-Springfield .....	444.5	457.4	445.6	.4	.4	.4	15.2	15.5	13.6
Toledo .....	281.9	291.4	281.0	.2	.2	.2	10.6	11.3	9.9
Youngstown-Warren .....	188.4	200.4	194.8	.4	.4	.4	7.3	7.9	6.7
<b>Oklahoma</b> .....	1,163.8	1,198.3	1,178.7	42.3	44.0	43.8	36.6	37.9	36.7
Enid .....	21.1	21.6	21.3	.9	.9	.9	.7	.6	.5
Lawton .....	35.3	35.4	34.9	.3	.3	.3	1.0	.9	.8
Oklahoma City .....	418.9	425.4	419.9	10.7	10.0	9.8	11.3	12.0	11.1
Tulsa .....	311.8	322.5	317.9	12.0	12.2	12.2	11.5	11.7	11.4
<b>Oregon</b> .....	1,206.5	1,260.1	1,231.2	1.3	1.6	1.6	45.4	52.7	48.6
Eugene-Springfield .....	115.1	119.1	115.9	.1	.2	.2	3.4	3.9	3.6
Portland .....	618.5	649.4	635.5	.5	.5	.5	26.7	28.8	27.2
Salem .....	102.8	107.9	105.3	.1	.1	.1	4.0	4.5	4.1
<b>Pennsylvania</b> .....	5,087.9	5,217.5	5,106.7	26.7	26.9	26.2	205.3	219.4	202.6
Allentown-Bethlehem .....	281.9	292.0	285.9	.5	.5	.5	11.9	12.6	11.4
Altoona .....	52.6	54.5	53.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.2
Beaver County .....	49.6	50.8	49.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.4	2.2
Erie .....	116.9	122.3	120.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	3.6	3.4
Harrisburg-Lebanon-Carlisle .....	309.6	317.7	313.4	.4	.5	.4	13.2	13.7	13.0
Johnstown .....	81.2	84.1	83.1	2.8	2.7	2.6	2.7	3.2	2.8
Lancaster .....	189.1	193.1	188.7	.4	.4	.4	11.7	11.7	11.4
Philadelphia PMSA .....	2,187.5	2,240.3	2,197.6	1.0	1.0	.9	92.0	97.4	90.3
Philadelphia City .....	747.3	746.4	733.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.5	14.1	13.6
Pittsburgh .....	892.9	929.6	907.7	4.4	4.0	3.9	37.2	41.7	38.6

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>New Mexico</b> .....	42.1	42.9	42.7	29.1	29.1	28.7	133.9	139.9	135.5
Albuquerque .....	21.0	20.7	20.6	12.7	13.0	12.8	59.9	62.3	60.3
Las Cruces .....	3.6	3.8	3.7	1.7	1.7	1.6	9.1	9.5	9.2
Santa Fe .....	1.8	1.9	1.9	.9	1.1	1.0	11.3	12.2	11.8
<b>New York</b> .....	1,128.9	1,101.1	1,080.7	421.2	436.2	425.2	1,682.6	1,696.0	1,618.8
Albany-Schenectady-Troy .....	45.3	46.4	45.9	17.1	17.5	17.1	92.2	95.7	91.7
Binghamton .....	34.7	33.2	32.9	4.3	4.3	4.2	25.0	26.4	25.3
Buffalo .....	71.0	72.6	72.2	22.7	23.4	23.0	112.7	118.2	113.0
Elmira .....	9.0	8.4	8.2	1.5	1.5	1.4	10.3	10.4	10.0
Glens Falls .....	10.2	10.0	9.9	1.5	1.5	1.5	10.6	10.4	10.2
Nassau-Suffolk .....	156.1	143.9	141.3	49.6	52.3	50.4	289.6	290.3	277.6
New York PMSA .....	407.0	395.5	384.3	249.0	254.9	249.6	731.9	726.1	690.7
New York City .....	332.9	326.4	315.5	223.1	227.6	222.8	813.2	605.5	576.0
Niagara Falls .....	21.4	21.6	22.2	3.8	4.0	3.8	20.0	22.1	21.0
Orange County .....	13.9	13.3	13.1	6.4	6.4	6.4	28.1	28.6	27.7
Poughkeepsie .....	30.0	30.3	29.6	3.7	4.0	4.0	22.5	22.7	21.8
Rochester .....	133.5	132.5	131.0	15.1	15.3	15.1	103.9	106.0	103.3
Rockland County .....	15.0	14.9	14.7	5.0	5.3	5.2	22.6	23.5	22.5
Syracuse .....	51.9	50.7	50.4	19.2	19.6	19.4	76.2	80.5	77.9
Utica-Rome .....	23.8	22.8	22.1	4.3	4.4	4.4	27.5	28.7	27.5
Westchester County .....	57.1	52.1	51.9	20.3	21.4	21.0	91.7	92.6	87.9
<b>North Carolina</b> .....	870.5	849.4	842.7	146.7	156.2	153.7	698.1	735.3	710.5
Asheville .....	20.6	20.6	20.6	4.1	4.2	4.0	21.1	22.4	21.2
Charlotte-Gastonia-Rock Hill .....	154.0	151.8	149.5	48.9	51.8	51.3	152.3	156.8	152.6
Greensboro-Winston-Salem-High Point .....	152.0	146.9	145.3	25.3	26.2	25.4	113.0	117.0	114.3
Raleigh-Durham .....	63.5	64.0	63.7	21.5	21.8	21.5	89.7	93.5	91.0
<b>North Dakota</b> .....	16.4	18.0	17.6	16.8	17.3	17.1	67.8	72.7	69.9
Bismarck .....	2.1	2.3	2.2	2.7	2.8	2.8	10.1	10.8	10.3
Fargo-Moorhead .....	5.3	5.9	5.7	4.5	4.8	4.7	21.7	23.5	22.8
Grand Forks .....	1.5	1.6	1.6	1.7	1.7	1.7	8.8	9.8	9.2
<b>Ohio</b> .....	1,084.7	1,099.9	1,087.6	214.7	223.4	217.5	1,146.9	1,207.6	1,154.6
Akron .....	65.4	68.0	67.4	13.5	13.9	13.5	67.9	71.2	67.8
Canton .....	44.9	44.4	44.0	5.5	5.7	5.5	40.5	42.5	40.7
Cincinnati .....	146.7	148.6	147.4	40.1	42.1	41.2	186.5	196.0	187.2
Cleveland .....	205.4	204.5	203.7	42.1	43.4	41.8	223.4	235.1	225.5
Columbus .....	102.6	104.6	104.4	30.3	31.4	30.4	181.2	191.3	182.3
Dayton-Springfield .....	101.1	101.1	100.8	18.1	18.8	18.1	99.8	105.0	100.7
Toledo .....	55.7	55.2	54.2	14.1	15.2	14.2	71.1	74.1	70.5
Youngstown-Warren .....	42.2	48.2	48.0	7.3	7.3	6.9	52.1	55.1	52.7
<b>Oklahoma</b> .....	163.1	164.9	162.5	66.5	67.8	67.1	273.0	278.9	273.1
Enid .....	1.6	1.5	1.6	2.1	2.1	2.0	6.0	6.2	6.2
Lawton .....	3.2	3.5	3.5	2.0	1.7	1.6	6.5	9.1	8.9
Oklahoma City .....	46.2	45.1	44.6	21.0	21.0	21.1	101.8	104.5	102.0
Tulsa .....	55.7	57.4	57.0	25.0	26.0	25.8	72.3	75.6	73.3
<b>Oregon</b> .....	215.0	210.2	207.9	63.1	64.3	63.2	303.3	323.0	308.6
Eugene-Springfield .....	20.9	19.2	18.7	4.5	4.3	4.4	29.8	31.4	29.6
Portland .....	102.7	103.9	102.7	37.0	38.6	37.3	160.3	170.5	163.1
Salem .....	13.4	13.9	13.6	2.9	2.9	2.9	23.5	24.5	23.6
<b>Pennsylvania</b> .....	1,023.3	998.3	992.2	259.5	273.6	267.8	1,172.0	1,215.4	1,174.7
Allentown-Bethlehem .....	74.1	74.4	74.1	14.6	14.8	14.6	63.2	66.7	64.8
Altoona .....	10.8	10.7	10.7	4.7	4.9	4.8	14.0	14.6	14.4
Beaver County .....	9.2	9.0	9.0	5.2	5.3	5.2	11.6	12.0	11.7
Erie .....	36.0	36.9	36.6	4.2	4.4	4.5	25.4	26.8	25.9
Harrisburg-Lebanon-Carlisle .....	49.7	48.7	48.6	19.4	21.3	20.9	70.2	70.6	69.5
Johnstown .....	14.0	14.1	14.0	5.6	5.6	5.5	17.5	18.9	18.1
Lancaster .....	58.3	56.3	56.5	7.5	7.7	7.6	47.6	48.1	46.5
Philadelphia PMSA .....	352.9	342.6	339.0	99.4	102.2	99.5	511.1	523.0	508.0
Philadelphia City .....	84.0	80.8	79.0	39.8	40.5	39.8	140.1	134.9	131.2
Pittsburgh .....	118.8	118.8	117.0	51.4	55.7	54.8	221.4	231.3	222.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>New Mexico</b> .....	26.1	26.0	25.7	142.1	147.2	146.3	144.3	150.5	146.6
Albuquerque .....	14.0	13.9	13.7	72.1	75.4	75.2	47.6	49.8	48.6
Las Cruces .....	1.6	1.6	1.6	7.7	8.0	8.0	17.7	18.9	18.0
Santa Fe .....	2.3	2.3	2.3	15.1	16.0	15.9	23.5	24.1	23.8
<b>New York</b> .....	781.4	762.1	754.9	2,327.4	2,423.2	2,372.1	1,456.4	1,483.1	1,460.8
Albany-Schenectady-Troy .....	24.7	25.5	25.2	113.7	119.6	118.7	113.3	116.3	115.2
Binghamton .....	4.1	4.0	4.0	24.3	25.0	24.9	21.3	21.9	21.4
Buffalo .....	27.5	27.3	27.3	122.6	128.3	126.2	75.6	77.5	76.6
Elmira .....	1.7	1.5	1.5	10.4	10.4	10.3	7.2	7.3	7.1
Glens Falls .....	1.7	1.6	1.6	10.7	10.8	10.8	9.3	9.8	9.4
Nassau-Suffolk .....	80.2	80.8	80.5	299.2	315.9	306.4	184.9	188.5	186.4
New York PMSA .....	559.3	539.8	533.2	1,300.1	1,347.0	1,322.0	685.2	691.7	684.5
New York City .....	523.8	504.1	497.6	1,145.6	1,185.4	1,163.9	602.2	606.7	601.1
Niagara Falls .....	2.0	2.0	2.1	17.2	19.4	18.1	12.9	13.2	13.0
Orange County .....	4.8	5.0	5.1	23.6	24.3	24.2	24.1	24.0	23.7
Poughkeepsie .....	4.6	4.8	4.7	28.4	29.8	29.8	25.1	25.2	24.7
Rochester .....	23.1	22.7	22.7	120.2	127.2	125.3	67.4	70.0	68.1
Rockland County .....	5.3	5.4	5.3	26.3	27.7	27.1	21.4	21.7	21.4
Syracuse .....	20.2	20.9	20.6	76.0	81.0	78.7	52.6	54.6	53.3
Utica-Rome .....	7.4	7.3	7.4	27.3	29.1	28.1	30.9	31.9	30.9
Westchester County .....	29.3	29.6	29.5	123.1	128.7	126.0	57.6	59.1	57.9
<b>North Carolina</b> .....	131.7	135.0	133.9	568.8	603.0	591.8	486.8	507.7	501.4
Asheville .....	3.0	2.9	2.8	19.6	21.5	20.6	12.6	13.3	12.8
Charlotte-Gastonia-Rock Hill .....	37.6	38.3	38.0	117.9	126.5	124.7	69.1	73.8	72.9
Greensboro-Winston-Salem-High Point .....	24.0	24.0	23.8	98.8	105.7	103.6	55.4	56.9	56.7
Raleigh-Durham .....	24.0	24.2	24.0	109.7	116.5	114.6	91.7	95.4	92.4
<b>North Dakota</b> .....	12.1	12.5	12.4	66.4	70.3	69.4	65.8	65.9	65.2
Bismarck .....	1.5	1.5	1.5	11.9	12.8	12.7	8.6	9.0	9.0
Fargo-Moorhead .....	4.5	4.7	4.6	21.3	22.6	22.3	15.4	15.4	15.4
Grand Forks .....	1.1	1.1	1.1	6.9	7.4	7.4	9.6	10.1	9.7
<b>Ohio</b> .....	250.7	255.8	253.3	1,136.6	1,212.6	1,184.1	715.8	743.4	729.6
Akron .....	10.7	10.7	10.6	65.4	70.1	68.5	41.7	47.3	42.2
Canton .....	6.9	6.6	6.5	37.7	40.5	39.6	19.3	19.7	19.9
Cincinnati .....	42.8	44.3	43.8	180.9	196.4	190.7	92.4	96.9	96.3
Cleveland .....	56.9	58.1	57.6	248.6	261.4	253.5	118.4	119.9	118.7
Columbus .....	59.8	60.9	60.4	173.3	185.8	181.7	127.9	133.5	131.7
Dayton-Springfield .....	17.0	17.5	17.3	115.1	120.6	116.9	77.9	78.4	78.0
Toledo .....	12.0	12.1	12.0	74.2	77.6	76.3	44.0	45.7	43.8
Youngstown-Warren .....	8.5	8.2	8.3	46.1	47.8	46.9	24.5	25.5	24.8
<b>Oklahoma</b> .....	59.1	58.8	58.1	261.8	276.7	273.1	261.4	269.3	264.3
Enid .....	.9	.9	.9	5.0	5.3	5.1	3.9	4.1	4.1
Lawton .....	1.8	1.7	1.6	6.5	6.2	6.1	12.0	12.0	12.1
Oklahoma City .....	24.5	24.3	24.3	101.6	105.8	105.6	101.8	102.7	101.4
Tulsa .....	17.3	17.7	17.6	80.1	83.1	82.2	37.9	38.8	38.4
<b>Oregon</b> .....	76.1	80.4	79.9	282.8	300.8	296.5	219.5	227.1	224.9
Eugene-Springfield .....	5.7	5.8	5.8	26.9	28.8	28.8	23.8	25.5	24.8
Portland .....	49.2	51.9	51.8	159.4	169.2	168.2	82.7	86.0	84.7
Salem .....	5.6	6.1	6.0	21.9	23.8	23.0	31.4	32.1	32.0
<b>Pennsylvania</b> .....	298.1	299.1	298.6	1,404.7	1,466.3	1,447.3	698.3	718.5	697.3
Allentown-Bethlehem .....	14.4	14.5	14.7	72.2	76.5	74.4	31.0	32.0	31.4
Altoona .....	2.0	2.1	2.1	11.8	12.4	12.4	7.1	7.5	7.3
Beaver County .....	1.6	1.6	1.6	11.9	12.5	12.2	7.9	8.0	7.9
Erie .....	5.5	5.5	5.5	28.8	30.9	30.3	13.9	14.2	14.1
Harrisburg-Lebanon-Carlisle .....	20.7	21.4	21.4	67.9	71.9	70.4	68.1	69.6	69.2
Johnstown .....	4.6	4.7	4.6	21.2	21.8	22.5	12.8	13.1	13.0
Lancaster .....	7.7	8.1	7.9	40.0	43.2	41.9	15.9	17.6	16.5
Philadelphia PMSA .....	161.1	161.1	160.7	666.8	706.9	697.1	303.2	306.1	302.1
Philadelphia City .....	65.7	63.9	63.6	261.1	271.5	266.3	141.1	140.7	140.1
Pittsburgh .....	55.0	55.0	55.0	300.6	314.8	312.0	104.1	108.3	104.4

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	152.7	154.9	151.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.5	7.2	6.6
Scranton-Wilkes-Barre .....	303.3	308.2	305.1	0.6	0.6	0.6	11.7	13.0	11.3
Sharon .....	42.5	45.3	44.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.4	1.4
State College .....	58.3	62.0	57.0	.4	.4	.4	2.0	2.2	2.0
Williamsport .....	50.8	52.0	50.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.5	2.4
York .....	180.7	185.0	181.3	.5	.5	.5	9.5	10.2	9.5
<b>Rhode Island</b>	446.6	448.6	437.1	.1	.1	.1	16.6	16.5	15.0
Pawtucket-Woonsocket-Attleboro .....	129.2	127.5	123.2	.1	.2	.1	4.0	3.9	3.0
Providence .....	316.5	319.7	312.3	.1	.1	.1	12.4	12.7	11.6
<b>South Carolina</b>	1,502.8	1,561.8	1,535.9	2.0	2.1	2.1	96.4	99.4	97.6
Charleston .....	200.6	212.9	210.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.7	15.8	16.1
Columbia .....	242.9	252.7	248.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.9	14.8	14.4
Greenville-Spartanburg .....	332.0	343.3	335.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.4	25.7	24.9
<b>South Dakota</b>	275.8	291.6	285.3	2.5	2.5	2.5	9.1	10.8	10.0
Rapid City .....	36.2	38.2	37.4	.2	.2	.2	1.9	2.3	2.2
Sioux Falls .....	72.6	76.1	74.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	3.3	3.2
<b>Tennessee</b>	2,144.1	2,201.3	2,157.8	6.1	6.1	5.9	89.9	90.7	82.3
Chattanooga .....	199.9	202.5	200.6	.6	.6	.6	7.1	7.3	7.2
Johnson City-Kingsport-Bristol .....	168.7	173.3	170.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.3	6.7	6.3
Knoxville .....	262.2	262.9	257.8	1.4	1.4	1.4	14.0	12.9	11.7
Memphis .....	467.0	480.5	474.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.2	20.0	19.3
Nashville .....	492.2	506.3	499.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.2	24.0	23.1
<b>Texas</b>	6,890.8	7,125.5	7,059.5	175.1	183.8	183.1	315.5	338.4	327.4
Abilene .....	48.6	49.1	48.6	1.4	1.5	1.5	1.5	1.6	1.5
Amarillo .....	76.6	78.6	77.7	1.2	1.1	1.1	3.0	3.1	2.9
Austin .....	368.8	383.5	380.6	.6	.7	.7	11.0	12.0	11.8
Beaumont-Port Arthur .....	138.7	146.6	145.7	1.6	1.9	1.9	10.2	12.3	12.3
Brazoria .....	64.3	67.2	66.3	1.9	2.0	2.0	8.2	8.8	8.4
Brownsville-Harlingen .....	74.2	75.5	75.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.1	2.1
Bryan-College Station .....	51.2	56.2	52.0	.6	.6	.6	1.6	1.8	1.6
Corpus Christi .....	130.6	138.6	136.3	3.8	4.1	4.1	10.7	13.3	11.7
Dallas .....	1,349.8	1,387.3	1,372.7	17.8	17.9	17.9	44.5	47.2	45.7
El Paso .....	205.0	210.9	209.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	7.9	8.1
Ft. Worth-Arlington .....	574.0	593.7	588.7	4.2	4.6	4.6	21.3	22.2	21.3
Galveston-Texas City .....	73.5	76.0	74.9	.6	.7	.7	4.6	4.3	4.1
Houston .....	1,540.9	1,630.3	1,612.1	65.5	71.0	72.1	102.7	109.8	107.1
Killeen-Temple .....	73.1	72.9	72.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.2	2.1
Laredo .....	43.4	45.0	44.9	1.7	1.8	1.8	1.2	1.3	1.3
Longview-Marshall .....	68.4	69.2	68.7	3.5	3.5	3.4	3.5	3.5	3.4
Lubbock .....	95.9	100.5	97.8	.3	.2	.2	3.0	3.4	3.2
McAllen-Edinburg-Mission .....	100.8	104.1	103.5	.8	.9	.9	4.1	4.5	4.4
Midland .....	43.6	44.8	44.5	8.9	9.2	9.1	1.2	1.4	1.4
Odessa .....	43.2	44.5	44.1	5.3	5.4	5.3	2.0	2.2	2.2
San Angelo .....	36.5	37.0	36.2	.5	.5	.6	1.1	1.2	1.1
San Antonio .....	512.9	525.1	518.7	1.8	1.9	1.8	20.7	22.2	21.8
Sherman-Denison .....	37.4	38.1	38.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.5
Texarkana .....	47.4	46.9	46.4	.1	.1	.1	1.4	1.4	1.4
Tyler .....	61.3	62.6	62.3	1.7	1.7	1.6	1.7	1.9	1.7
Victoria .....	27.7	28.5	28.4	1.4	1.6	1.6	1.6	1.5	1.5
Waco .....	80.5	83.1	82.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	3.0	3.0
Wichita Falls .....	49.8	50.8	50.0	1.4	1.4	1.4	1.9	1.9	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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	47.6	44.8	44.6	6.5	6.7	6.7	33.7	35.1	33.9
Scranton-Wilkes-Barre .....	69.9	67.8	67.9	16.3	17.0	16.7	72.5	74.8	73.2
Sharon .....	11.5	11.8	11.7	2.0	2.1	2.1	10.6	11.3	10.9
State College .....	8.6	8.5	8.5	1.6	1.8	1.7	11.2	12.5	11.9
Williamsport .....	16.0	15.6	15.2	1.7	1.7	1.7	11.8	12.0	11.7
York .....	58.7	56.5	56.6	7.9	8.1	7.9	45.7	48.8	47.1
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	47.2	45.7	44.5	3.6	3.6	3.5	33.0	33.3	31.8
Providence .....	64.0	61.1	60.1	11.9	11.9	11.6	67.5	65.1	63.1
<b>South Carolina</b>									
Charleston .....	20.9	21.6	21.3	10.2	10.9	10.6	48.9	53.3	52.0
Columbia .....	28.3	27.3	27.1	11.4	11.6	11.4	55.2	56.4	55.2
Greenville-Spartanburg .....	100.4	98.6	97.8	14.0	14.8	14.6	77.7	81.3	78.6
<b>South Dakota</b>									
Rapid City .....	3.8	3.8	3.7	1.9	1.9	1.9	10.3	11.2	10.9
Sioux Falls .....	8.9	8.9	8.8	4.9	4.9	4.9	20.2	21.8	21.2
<b>Tennessee</b>									
Chattanooga .....	47.1	45.4	45.1	8.9	9.3	9.3	47.4	48.8	47.4
Johnson City-Kingsport-Bristol .....	54.4	52.1	52.0	6.0	6.4	6.3	39.2	41.0	39.8
Knoxville .....	50.8	49.3	48.3	11.1	11.5	11.2	68.3	69.5	68.1
Memphis .....	61.5	60.9	60.3	45.6	48.2	47.8	124.2	128.2	126.5
Nashville .....	88.7	88.6	87.4	26.4	27.0	27.1	122.3	125.9	122.5
<b>Texas</b>									
Abilene .....	5.0	4.5	4.5	2.7	2.8	2.8	12.8	13.0	12.7
Amarillo .....	8.4	9.0	8.8	5.5	5.4	5.7	22.4	22.9	22.1
Austin .....	48.8	49.3	49.3	11.6	12.1	12.0	77.3	78.4	75.7
Beaumont-Port Arthur .....	24.8	25.6	25.7	9.7	9.6	9.6	32.3	33.7	33.2
Brazoria .....	18.3	16.8	16.8	2.8	3.0	2.9	12.3	12.8	12.6
Brownsville-Harlingen .....	11.3	11.2	11.2	3.1	3.2	3.2	20.1	20.4	20.4
Bryan-College Station .....	3.6	3.4	3.3	1.3	1.3	1.3	11.1	11.4	10.6
Corpus Christi .....	11.6	12.6	12.7	6.5	6.6	6.6	31.2	32.0	31.6
Dallas .....	220.9	218.9	218.4	80.9	83.1	82.6	348.4	362.4	356.0
El Paso .....	40.4	42.2	41.6	10.5	10.9	10.8	51.6	53.4	52.6
Ft. Worth-Arlington .....	116.8	116.1	115.6	53.4	56.2	56.1	148.2	153.5	150.4
Galveston-Texas City .....	8.9	8.6	8.6	4.8	5.1	5.1	14.1	14.9	14.6
Houston .....	169.3	176.7	175.8	106.9	112.6	113.1	369.9	381.8	371.8
Killeen-Temple .....	8.6	8.9	8.9	2.7	2.4	2.4	16.6	16.0	15.5
Laredo .....	1.7	1.6	1.6	8.1	6.2	6.2	13.7	14.4	14.2
Longview-Marshall .....	16.5	16.1	15.9	3.4	3.5	3.5	16.8	17.2	17.0
Lubbock .....	7.3	7.2	7.0	5.4	5.8	5.7	27.9	29.6	28.1
McAllen-Edinburg-Mission .....	13.3	14.1	13.9	3.1	3.2	3.2	31.5	32.4	32.1
Midland .....	2.3	2.3	2.3	2.3	2.4	2.4	10.4	10.7	10.5
Odessa .....	4.1	4.3	4.4	2.0	2.0	2.0	12.3	13.0	12.8
San Angelo .....	5.2	5.0	4.9	2.7	2.6	2.6	9.1	9.2	8.8
San Antonio .....	46.3	43.4	43.7	21.3	22.0	21.7	127.9	134.0	130.7
Sherman-Denison .....	10.9	10.8	10.8	1.6	1.6	1.6	7.7	8.0	8.0
Texarkana .....	7.2	7.1	7.0	2.4	2.4	2.4	10.8	11.1	10.8
Tyler .....	10.8	11.0	11.1	2.7	2.8	2.8	16.1	16.1	15.9
Victoria .....	2.9	3.0	3.1	1.3	1.4	1.4	7.7	7.7	7.5
Waco .....	15.5	15.7	15.7	3.5	3.5	3.5	18.5	19.7	19.1
Wichita Falls .....	8.2	8.2	8.2	2.5	2.7	2.7	11.4	11.9	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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	8.2	8.4	8.4	33.0	34.1	33.5	17.2	18.8	17.6
Scranton—Wilkes-Barre .....	13.7	13.7	13.8	77.2	78.5	79.2	41.4	42.8	42.4
Sharon .....	1.3	1.4	1.4	10.6	11.7	11.0	5.3	5.6	5.5
State College .....	1.8	2.0	1.9	10.8	10.8	10.8	21.9	23.8	19.6
Williamsport .....	2.3	2.3	2.3	10.5	10.8	10.7	6.5	7.1	6.8
York .....	5.2	5.3	5.3	34.4	36.2	35.4	18.8	19.4	19.0
<b>Rhode Island</b>									
Pawtucket—Woonsocket—Attleboro .....	27.0	26.9	26.8	123.6	130.4	126.4	63.1	65.3	85.1
Providence .....	3.8	3.8	3.6	26.1	25.4	25.0	11.4	11.8	11.7
	22.2	22.5	22.2	92.7	98.7	98.0	45.7	47.6	47.6
<b>South Carolina</b>									
Charleston .....	65.2	65.7	65.0	277.9	300.9	297.7	276.3	297.9	292.6
Columbia .....	7.8	7.6	7.5	43.0	47.1	47.0	54.1	56.6	55.5
Greenville—Spartanburg .....	18.5	17.8	17.8	49.5	55.2	54.6	66.1	69.8	68.0
	12.0	12.1	11.9	82.2	66.6	64.3	41.3	44.2	43.3
<b>South Dakota</b>									
Rapid City .....	16.1	16.4	18.3	66.1	71.4	70.8	62.4	64.8	63.4
Sioux Falls .....	1.5	1.4	1.4	9.4	10.0	9.9	7.2	7.4	7.2
	8.0	8.3	8.1	19.9	21.3	20.8	7.7	7.6	7.6
<b>Tennessee</b>									
Chattanooga .....	101.3	101.6	100.6	463.7	485.7	478.1	347.1	354.2	351.5
Johnson City—Kingsport—Bristol .....	12.8	13.2	13.3	41.6	43.0	42.8	34.4	34.9	34.9
Knoxville .....	5.2	5.2	5.1	33.7	35.8	35.2	23.9	26.1	28.0
Memphis .....	9.8	10.5	10.3	54.9	56.5	55.8	51.9	51.3	51.0
Nashville .....	25.1	25.2	25.0	115.7	121.3	119.7	75.7	76.7	76.1
	30.7	30.5	30.3	130.7	140.4	139.4	69.2	69.9	69.4
<b>Texas</b>									
Abilene .....	427.0	428.8	426.5	1,645.7	1,724.6	1,716.2	1,249.1	1,302.0	1,297.4
Amarillo .....	2.0	1.9	1.9	14.1	14.5	14.5	9.1	9.3	9.2
Austin .....	4.2	4.4	4.3	17.5	17.7	17.8	14.4	15.0	15.0
Beaumont—Port Arthur .....	23.1	23.4	23.2	92.2	97.2	97.3	106.2	110.4	110.6
Brazoria .....	5.3	5.4	5.4	33.4	36.4	36.1	21.4	21.7	21.5
Brownsville—Harlingen .....	1.8	1.8	1.8	9.2	9.6	9.8	11.8	12.4	12.2
Bryan—College Station .....	3.8	3.4	3.4	16.5	17.4	17.5	17.5	17.8	17.6
Corpus Christi .....	1.7	1.8	1.8	9.8	10.7	10.7	21.7	25.2	22.1
Dallas .....	6.3	6.3	6.3	30.8	32.9	33.0	29.7	30.8	30.3
El Paso .....	124.5	124.3	123.2	354.9	370.5	367.2	157.9	163.0	161.7
Ft. Worth—Arlington .....	8.5	8.4	8.4	41.9	43.9	43.8	43.8	44.2	44.5
Galveston—Texas City .....	27.6	27.1	27.2	128.7	136.5	136.1	73.8	77.5	77.4
Houston .....	5.0	5.1	5.1	13.7	14.6	14.2	21.8	22.7	22.5
Killeen—Temple .....	100.3	102.6	102.0	423.3	485.3	460.0	203.0	210.5	210.2
Laredo .....	3.3	3.4	3.4	17.3	17.2	17.3	22.1	22.8	22.7
Longview—Marshall .....	1.8	1.8	1.7	7.6	7.9	8.1	9.6	10.0	10.0
Lubbock .....	2.7	2.6	2.8	13.0	13.9	14.0	9.0	8.9	8.9
McAllen—Edinburg—Mission .....	5.2	5.3	5.2	24.1	25.2	25.2	22.7	23.8	23.2
Midland .....	3.9	4.0	4.1	17.4	18.3	18.3	26.7	26.7	26.6
Odessa .....	2.4	2.3	2.4	9.2	9.5	9.5	6.9	7.0	6.9
San Angelo .....	1.5	1.5	1.4	7.9	8.1	8.1	8.1	8.0	7.9
San Antonio .....	1.6	1.6	1.6	8.9	9.2	9.0	7.4	7.7	7.6
Sherman—Denison .....	40.3	39.0	38.4	135.0	139.4	136.0	119.6	123.2	122.6
Texarkana .....	2.1	2.0	2.0	9.1	9.7	9.7	4.5	4.5	4.5
Tyler .....	1.8	1.7	1.7	10.8	11.3	11.3	12.9	11.8	11.7
Victoria .....	3.4	3.4	3.4	15.1	16.1	16.2	9.8	9.6	9.6
Waco .....	1.6	1.6	1.6	5.9	6.4	6.4	5.3	5.3	5.3
Wichita Falls .....	5.2	5.3	5.3	21.9	22.5	22.3	12.9	13.4	13.5
	2.2	2.1	2.1	12.4	12.7	12.5	9.8	9.7	9.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Utah</b> .....	697.8	747.5	727.8	8.3	8.7	8.6	23.0	28.1	24.4
Provo-Orem .....	88.8	99.2	96.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.9	2.8
Salt Lake City-Ogden .....	478.0	506.9	495.2	2.5	2.9	2.8	16.4	19.3	18.0
<b>Vermont</b> .....	258.5	258.0	253.9	.5	.5	.5	13.6	14.1	13.0
Barre-Montpelier .....	34.2	34.6	33.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.1	1.9
Burlington .....	78.6	80.3	77.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	3.8	3.9
<b>Virginia</b> .....	2,846.7	2,903.1	2,850.5	14.6	15.1	14.7	179.9	168.9	159.2
Bristol .....	34.1	34.5	34.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.2	1.1
Charlottesville .....	70.8	74.2	71.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.0	3.8
Danville .....	42.6	42.4	41.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.0	1.9
Lynchburg .....	77.2	77.3	76.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.8	3.5
Norfolk-Virginia Beach-Newport News .....	572.3	586.1	571.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	35.0	33.1	31.6
Northern Virginia .....	767.5	773.7	753.7	.6	.5	.5	56.6	46.0	42.2
Richmond-Petersburg .....	467.8	481.1	473.8	.7	.7	.6	30.1	30.0	28.4
Roanoke .....	125.3	129.5	127.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.3	7.5	6.9
<b>Washington</b> .....	2,072.4	2,192.5	2,149.2	3.4	3.7	3.5	103.2	120.6	112.7
Seattle .....	1,079.9	1,125.8	1,105.3	.5	.6	.6	56.4	60.5	57.1
<b>West Virginia</b> .....	610.6	630.1	617.1	35.2	35.3	35.0	22.2	26.0	22.8
Charleston .....	108.2	113.7	110.5	2.1	2.1	2.1	3.8	5.1	4.1
Huntington-Ashland .....	108.2	113.1	110.5	1.4	1.5	1.5	4.9	4.8	4.5
Parkersburg-Marietta .....	60.3	62.1	60.4	.5	.5	.5	2.3	2.9	2.3
Wheeling .....	58.8	60.6	59.1	2.2	2.3	2.3	1.6	1.9	1.6
<b>Wisconsin</b> .....	2,206.7	2,300.7	2,244.4	1.6	1.9	1.6	72.2	78.8	70.4
Appleton-Oshkosh-Neenah .....	155.5	162.2	159.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	7.7	7.4
Eau Claire .....	56.5	57.9	56.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	2.0	1.6
Green Bay .....	102.0	107.3	105.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	5.4	5.1
Janesville-Beloit .....	55.8	60.9	56.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.4	1.4
Kenosha .....	39.8	43.4	42.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.8	1.8
La Crosse .....	51.8	53.5	51.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.1
Madison .....	209.5	225.1	220.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	8.2	7.3
Milwaukee .....	743.2	763.6	752.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.7	25.8	23.8
Racine .....	75.0	77.6	75.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.3	2.1
Sheboygan .....	50.6	51.8	51.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.5	1.4
Wausau .....	51.7	53.0	52.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.3	2.0
<b>Wyoming</b> .....	187.0	200.2	193.0	17.7	18.5	18.0	7.9	9.9	8.5
Casper .....	26.8	29.4	28.1	2.3	2.6	2.4	1.2	1.6	1.3
<b>Puerto Rico</b> .....	832.5	848.4	834.0	1.0	.9	.9	43.8	45.1	44.7
Caguas .....	53.2	54.7	53.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.6	1.5
Mayaguez .....	55.4	56.0	57.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.0	2.0
Ponce .....	55.1	56.0	55.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	3.9	4.1
San Juan .....	517.2	526.3	517.4	.5	.5	.5	31.2	31.4	30.9
<b>Virgin Islands</b> .....	41.7	43.5	43.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	4.1	4.1

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Utah</b> .....	104.3	109.2	107.2	41.3	44.0	43.2	164.6	183.7	172.0
Provo-Orem .....	13.4	14.2	14.1	2.5	2.5	2.4	20.1	24.4	22.9
Salt Lake City-Ogden .....	87.5	89.4	69.1	32.0	33.5	33.2	117.7	128.1	118.8
<b>Vermont</b> .....	47.0	44.7	43.9	10.8	11.0	10.8	60.4	60.7	59.1
Barre-Montpelier .....	4.5	4.4	3.9	.9	.9	.9	7.8	7.5	7.3
Burlington .....	16.2	15.1	14.9	3.5	3.4	3.3	19.2	20.5	18.9
<b>Virginia</b> .....	428.6	418.3	417.0	148.9	151.4	148.6	645.8	671.4	649.8
Bristol .....	10.9	10.1	10.1	1.5	1.6	1.6	8.7	9.0	8.8
Charlottesville .....	9.1	8.9	8.7	2.5	2.7	2.6	14.9	15.6	15.3
Danville .....	17.3	16.0	15.6	1.1	1.2	1.1	8.6	9.1	8.8
Lynchburg .....	24.0	23.2	23.3	3.0	3.0	2.9	16.7	16.9	16.5
Norfolk-Virginia Beach-Newport News .....	65.0	66.6	64.7	27.0	28.3	27.1	140.3	143.4	137.3
Northern Virginia .....	35.0	34.8	34.2	51.4	51.6	50.8	174.0	178.9	170.2
Richmond-Petersburg .....	65.0	64.8	64.5	23.6	24.4	24.1	108.8	111.2	107.9
Roanoke .....	19.9	19.7	19.5	8.4	8.3	8.2	34.2	36.8	35.5
<b>Washington</b> .....	365.8	365.8	359.8	110.4	116.3	114.3	502.3	535.7	517.1
Seattle .....	222.9	222.2	220.0	67.5	70.2	68.2	257.3	270.0	261.3
<b>West Virginia</b> .....	87.0	84.4	84.2	36.6	37.1	36.9	141.3	148.7	143.1
Charleston .....	10.8	10.8	10.5	8.8	9.2	9.1	28.6	30.3	29.0
Huntington-Ashland .....	19.9	20.5	20.5	7.3	8.1	8.0	27.8	29.5	28.1
Parkersburg-Marietta .....	14.6	14.4	14.3	2.4	2.4	2.4	14.6	15.4	14.9
Wheeling .....	7.2	7.2	7.2	3.2	3.3	3.2	15.8	16.7	15.9
<b>Wisconsin</b> .....	547.3	553.1	548.0	102.2	109.0	108.1	524.7	549.8	528.1
Appleton-Oshkosh-Neenah .....	53.1	52.0	52.3	6.0	6.4	6.4	33.6	38.2	34.0
Eau Claire .....	11.3	10.8	10.8	3.0	3.1	3.1	15.3	15.5	14.9
Green Bay .....	22.8	22.9	22.6	7.3	7.8	7.5	27.0	28.0	27.5
Janesville-Beloit .....	15.8	19.2	16.2	2.2	2.4	2.4	13.9	14.7	14.3
Kenosha .....	9.7	10.1	9.8	1.3	1.4	1.4	10.6	12.1	11.5
La Crosse .....	10.2	10.6	10.8	2.3	2.5	2.5	14.3	14.7	14.3
Madison .....	25.0	28.4	26.4	7.8	8.7	8.6	47.9	52.1	49.4
Milwaukee .....	174.2	174.2	173.6	36.4	36.7	37.2	171.6	175.8	171.8
Racine .....	26.4	26.1	25.3	2.3	2.3	2.2	16.9	18.4	17.8
Sheboygan .....	21.4	21.7	21.9	1.8	1.6	1.6	9.8	10.0	9.9
Wausau .....	15.0	14.9	14.7	3.0	3.2	3.2	12.4	12.7	12.5
<b>Wyoming</b> .....	9.2	9.9	9.5	14.2	14.7	14.3	41.4	45.3	43.2
Casper .....	1.5	1.8	1.7	1.7	1.8	1.7	7.6	8.2	7.8
<b>Puerto Rico</b> .....	152.5	152.6	149.7	20.7	20.8	20.8	155.0	165.0	158.6
Caguas .....	14.8	15.2	15.3	.4	.5	.5	11.2	12.0	11.6
Mayaguez .....	17.0	18.5	18.5	.5	.6	.5	8.4	9.2	9.1
Ponce .....	10.5	10.3	9.6	1.6	1.3	1.4	6.7	9.2	9.0
San Juan .....	64.9	64.8	63.4	16.3	17.1	16.9	106.5	113.6	109.1
<b>Virgin Islands</b> .....	2.2	2.5	2.4	2.2	2.4	2.4	8.9	9.6	9.6

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Utah</b> .....	33.4	34.5	34.3	172.9	187.6	185.5	150.0	151.7	152.6
Provo-Orem .....	2.3	2.3	2.3	33.5	37.9	37.0	14.5	15.0	15.0
Salt Lake City-Ogden .....	27.1	28.4	28.2	116.7	126.4	125.2	98.1	98.9	99.9
<b>Vermont</b> .....	13.0	11.8	11.6	71.0	69.5	70.9	42.2	45.7	44.1
Barre-Montpelier .....	3.2	2.6	2.6	8.2	8.8	9.1	7.9	8.3	7.9
Burlington .....	4.0	4.1	4.1	19.7	20.5	19.5	11.7	12.9	12.9
<b>Virginia</b> .....	152.3	152.1	150.2	704.2	736.7	726.9	574.4	589.2	584.1
Bristol .....	1.2	1.1	1.1	5.4	5.5	5.4	5.4	6.0	6.0
Charlottesville .....	3.8	3.7	3.5	13.5	14.5	14.4	22.7	24.8	23.3
Danville .....	1.4	1.4	1.4	6.7	7.0	7.0	5.6	5.7	5.7
Lynchburg .....	3.5	3.4	3.4	16.8	17.0	16.9	9.8	10.0	10.0
Norfolk-Virginia Beach-Newport News .....	26.1	26.6	26.0	142.8	150.0	146.6	136.1	138.1	137.9
Northern Virginia .....	50.6	50.1	49.8	252.3	261.5	257.8	147.0	150.1	148.2
Richmond-Petersburg .....	39.6	40.3	39.8	103.3	110.6	110.0	96.7	99.1	98.5
Roanoke .....	8.7	8.5	8.5	31.2	33.0	32.9	15.6	15.7	16.0
<b>Washington</b> .....	113.9	118.3	116.5	484.0	525.8	521.0	389.4	406.3	404.3
Seattle .....	72.5	74.4	74.2	258.6	278.2	275.4	144.2	149.7	148.5
<b>West Virginia</b> .....	24.4	24.7	24.6	139.1	149.0	147.8	124.8	124.9	122.7
Charleston .....	6.5	6.6	6.5	27.8	29.9	29.5	19.8	19.9	19.7
Huntington-Ashland .....	3.7	3.8	3.8	24.0	25.4	25.2	19.2	19.5	18.9
Parkersburg-Marietta .....	2.2	2.2	2.2	14.2	14.6	14.3	9.5	9.7	9.5
Wheeling .....	2.9	3.0	3.0	16.8	17.1	16.9	9.1	9.1	9.0
<b>Wisconsin</b> .....	117.5	120.9	120.6	511.5	537.3	529.7	329.6	349.8	341.9
Appleton-Oshkosh-Neenah .....	7.5	8.0	8.0	31.6	33.3	33.4	17.3	18.6	17.9
Eau Claire .....	1.8	1.8	1.7	13.0	13.1	13.0	10.5	11.5	10.9
Green Bay .....	5.4	5.9	6.3	23.7	25.3	24.4	11.4	12.1	12.0
Janesville-Beloit .....	1.6	1.7	1.7	13.4	14.0	13.6	7.3	7.5	7.3
Kenosha .....	1.4	1.3	1.4	9.1	10.1	9.9	6.1	6.5	6.5
La Crosse .....	1.6	1.6	1.6	14.7	15.1	14.6	7.3	7.8	6.9
Madison .....	18.5	19.7	19.5	47.2	49.2	49.2	55.8	60.9	60.0
Milwaukee .....	49.9	50.6	50.5	203.0	211.1	209.1	83.4	87.5	86.4
Racine .....	2.2	2.3	2.3	16.6	17.6	17.4	8.2	8.7	8.6
Sheboygan .....	2.4	2.2	2.2	8.9	9.3	9.1	5.3	5.6	5.5
Wausau .....	3.6	3.8	3.9	9.4	9.8	9.7	6.2	6.4	6.4
<b>Wyoming</b> .....	7.0	7.2	7.0	34.6	36.6	35.9	55.0	58.1	56.6
Casper .....	1.4	1.4	1.4	6.2	6.7	6.5	4.9	5.3	5.3
<b>Puerto Rico</b> .....	36.9	36.9	36.6	131.1	136.5	133.2	291.5	290.4	289.4
Caguas .....	1.3	1.3	1.3	7.4	7.7	7.3	16.3	16.3	16.4
Mayaguez .....	1.4	1.4	1.4	6.8	7.6	7.4	18.9	18.7	18.7
Ponce .....	1.8	1.8	1.8	11.0	11.9	11.9	17.2	17.6	17.6
San Juan .....	29.2	29.6	29.4	93.4	96.4	94.9	175.1	173.1	172.2
<b>Virgin Islands</b> .....	2.0	2.1	2.1	8.8	9.4	9.3	13.6	13.4	13.3

<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	13.25	569.75	37.9	13.52	512.41
1990 .....	34.5	10.03	346.04	44.0	13.65	600.60	38.2	13.73	524.49
<b>Monthly data, not seasonally adjusted</b>									
<b>1990:</b>									
February .....	34.2	\$9.91	\$338.92	43.3	\$13.46	\$582.82	37.3	\$13.59	\$506.91
March .....	34.3	9.93	340.60	43.0	13.57	583.51	37.9	13.63	516.58
April .....	34.4	9.97	342.97	43.1	13.66	588.75	37.3	13.58	506.53
May .....	34.4	9.97	342.97	43.2	13.56	585.79	38.2	13.68	522.58
June .....	34.8	9.98	347.30	44.4	13.66	606.50	39.1	13.63	532.93
July .....	34.9	10.00	349.00	43.6	13.69	596.88	38.3	13.70	524.71
August .....	34.8	10.00	348.00	44.0	13.63	599.72	39.0	13.74	535.86
September .....	34.8	10.16	353.57	45.1	13.82	623.28	39.0	13.92	542.88
October .....	34.3	10.16	348.49	44.6	13.69	610.57	38.0	13.92	528.96
November .....	34.3	10.17	348.83	44.9	13.78	618.72	38.2	13.82	527.92
December .....	34.7	10.20	353.94	45.4	13.84	628.34	38.3	13.87	531.22
<b>1991:</b>									
January <sup>p</sup> .....	33.8	10.24	346.11	44.3	14.17	627.73	36.0	13.96	502.56
February <sup>p</sup> .....	33.9	10.24	347.14	44.6	14.12	629.75	37.0	13.86	512.82

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	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.36
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.27
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.08
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.85
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.89
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.74
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.91
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.68
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.42
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.74
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	170.11
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.42
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.15
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	208.76
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	227.87
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.65
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	267.13
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.75
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.23
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.25
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.78
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.08
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.57
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.30
1988 .....	41.1	10.19	9.73	418.81	38.8	12.26	475.69	38.1	9.98	380.24
1989 .....	41.0	10.49	10.02	430.09	38.9	12.61	490.53	38.0	10.39	394.82
1990 .....	40.8	10.84	10.38	442.27	38.9	12.95	503.76	38.1	10.80	411.48
<b>Monthly data, not seasonally adjusted</b>										
<b>1990:</b>										
February .....	40.4	\$10.68	\$10.25	\$431.47	38.4	\$12.87	\$494.21	37.8	\$10.66	\$402.95
March .....	40.7	10.75	10.30	437.53	38.7	12.83	496.52	37.9	10.66	404.01
April .....	39.8	10.75	10.37	427.85	38.9	12.96	504.14	38.1	10.78	410.72
May .....	40.9	10.81	10.36	442.13	38.9	12.82	498.70	38.0	10.73	407.74
June .....	41.1	10.85	10.37	445.94	39.4	12.86	506.68	38.2	10.76	411.03
July .....	40.5	10.88	10.41	440.64	39.4	12.99	511.81	38.3	10.82	414.41
August .....	40.8	10.82	10.33	441.46	39.2	12.96	508.03	38.1	10.77	410.34
September .....	41.3	10.94	10.42	451.82	39.2	13.07	512.34	38.3	10.94	419.00
October .....	40.9	10.95	10.46	447.86	38.6	13.07	504.50	38.1	10.87	414.15
November .....	40.8	10.98	10.49	447.98	38.8	13.07	507.12	38.0	10.94	415.72
December .....	41.3	11.06	10.58	456.78	39.0	13.13	512.07	38.4	11.05	424.32
<b>1991:</b>										
January <sup>o</sup> .....	40.2	11.06	10.63	444.61	38.2	13.19	503.86	37.7	11.06	416.96
February <sup>o</sup> .....	39.8	11.04	10.64	439.39	38.2	13.16	502.71	37.8	11.09	419.20

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	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
<b>Annual averages</b>									
1964 .....	37.0	\$1.75	\$64.81	37.3	\$2.30	\$85.77	36.1	\$1.94	\$70.05
1965 .....	36.6	1.82	66.65	37.2	2.39	88.85	35.9	2.05	73.60
1966 .....	35.9	1.91	68.50	37.3	2.47	92.21	35.5	2.17	76.92
1967 .....	35.3	2.01	70.86	37.1	2.58	95.70	35.1	2.29	80.30
1968 .....	34.7	2.16	74.93	37.0	2.75	101.70	34.7	2.42	84.08
1969 .....	34.2	2.30	78.67	37.1	2.93	108.56	34.7	2.61	90.62
1970 .....	33.8	2.44	82.31	36.7	3.07	112.79	34.4	2.81	96.52
1971 .....	33.7	2.60	87.51	36.6	3.22	118.02	33.9	3.04	103.04
1972 .....	33.4	2.75	92.03	36.6	3.36	122.94	33.9	3.27	110.62
1973 .....	33.1	2.91	96.45	36.6	3.53	129.34	33.8	3.47	117.49
1974 .....	32.7	3.14	102.55	36.5	3.77	137.68	33.6	3.75	126.22
1975 .....	32.4	3.36	108.63	36.5	4.06	147.89	33.5	4.02	134.73
1976 .....	32.1	3.57	114.56	36.4	4.27	155.51	33.3	4.31	143.53
1977 .....	31.6	3.85	121.54	36.4	4.54	165.42	33.0	4.65	153.59
1978 .....	31.0	4.20	130.14	36.4	4.89	178.03	32.8	4.99	163.89
1979 .....	30.6	4.53	138.83	36.2	5.27	190.92	32.7	5.36	175.36
1980 .....	30.2	4.88	147.24	36.2	5.79	209.68	32.6	5.85	190.98
1981 .....	30.1	5.25	157.99	36.3	6.31	228.73	32.6	6.41	209.16
1982 .....	29.9	5.48	163.83	36.2	6.78	245.68	32.6	6.92	225.87
1983 .....	29.8	5.74	171.13	36.2	7.29	263.68	32.7	7.31	239.04
1984 .....	29.8	5.85	174.47	36.5	7.63	278.04	32.6	7.59	247.25
1985 .....	29.4	5.94	174.81	36.4	7.94	289.20	32.5	7.90	256.49
1986 .....	29.2	6.03	175.80	36.4	8.36	304.49	32.5	8.18	265.93
1987 .....	29.2	6.12	178.80	36.3	8.73	316.37	32.5	8.49	276.03
1988 .....	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
1989 .....	28.9	6.53	188.72	35.8	9.54	341.53	32.6	9.39	306.11
1990 .....	28.8	6.78	195.26	35.8	9.99	357.64	32.6	9.86	321.44
<b>Monthly data, not seasonally adjusted</b>									
<b>1990:</b>									
February .....	28.3	\$6.72	\$190.18	35.7	\$9.87	\$352.36	32.4	\$9.75	\$315.90
March .....	28.5	6.74	192.09	35.6	9.84	350.30	32.4	9.76	316.22
April .....	29.0	6.75	195.75	36.1	9.97	359.92	32.6	9.82	320.13
May .....	28.8	6.75	194.40	35.5	9.90	351.45	32.3	9.77	315.57
June .....	29.3	6.75	197.78	35.8	9.90	354.42	32.7	9.75	318.83
July .....	29.7	6.74	200.18	36.2	10.00	362.00	33.0	9.79	323.07
August .....	29.4	6.75	198.45	35.7	9.96	355.57	32.8	9.78	320.78
September .....	28.9	6.85	197.97	36.1	10.12	365.33	32.7	9.98	326.35
October .....	28.4	6.85	194.54	35.5	10.10	358.55	32.4	9.99	323.68
November .....	28.4	6.88	195.39	35.6	10.14	360.98	32.4	10.05	325.62
December .....	29.3	6.86	201.00	36.2	10.25	371.05	32.7	10.14	331.58
<b>1991:</b>									
January <sup>p</sup> .....	27.7	6.93	191.96	35.7	10.27	366.64	32.2	10.16	327.15
February <sup>p</sup> .....	28.1	6.91	194.17	35.8	10.32	369.46	32.4	10.18	329.83

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

<sup>p</sup> = preliminary.

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

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Total private</b> .....		34.5	34.1	34.7	33.8	33.9	-	-	-	-	-
<b>Mining</b> .....		44.0	43.6	45.4	44.3	44.6	-	-	-	-	-
Metal mining .....	10	42.7	43.2	42.4	43.2	-	-	-	-	-	-
Iron ores .....	101	43.0	43.5	43.0	42.6	-	-	-	-	-	-
Copper ores .....	102	45.6	47.5	44.3	48.7	-	-	-	-	-	-
Coal mining .....	12	44.0	44.6	45.3	45.9	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	44.0	44.7	45.3	45.9	-	-	-	-	-	-
Oil and gas extraction .....	13	43.9	43.2	46.1	44.5	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	42.8	43.1	43.7	42.4	-	-	-	-	-	-
Oil and gas field services .....	138	44.5	43.2	47.3	45.7	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	45.3	43.8	45.0	41.7	-	-	-	-	-	-
Crushed and broken stone .....	142	46.0	43.7	45.7	40.8	-	-	-	-	-	-
<b>Construction</b> .....		38.2	37.6	38.3	36.0	37.0	-	-	-	-	-
General building contractors .....	15	37.7	37.5	37.8	36.3	-	-	-	-	-	-
Residential building construction .....	152	36.9	36.2	36.5	35.1	-	-	-	-	-	-
Operative builders .....	153	37.3	37.4	36.9	36.2	-	-	-	-	-	-
Nonresidential building construction .....	154	38.5	38.7	39.1	37.4	-	-	-	-	-	-
Heavy construction, except building .....	16	41.9	41.6	41.4	36.7	-	-	-	-	-	-
Highway and street construction .....	161	42.7	40.1	41.2	34.5	-	-	-	-	-	-
Heavy construction, except highway .....	162	41.6	42.0	41.5	37.4	-	-	-	-	-	-
Special trade contractors .....	17	37.4	36.7	37.6	35.8	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	38.5	38.5	38.7	37.8	-	-	-	-	-	-
Painting and paper hanging .....	172	35.9	35.2	36.3	34.8	-	-	-	-	-	-
Electrical work .....	173	39.1	38.9	39.6	38.5	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	35.1	34.6	35.5	33.4	-	-	-	-	-	-
Carpentry and floor work .....	175	35.3	34.2	36.2	34.1	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	34.5	32.8	34.9	30.0	-	-	-	-	-	-
<b>Manufacturing</b> .....		40.8	40.6	41.3	40.2	39.8	3.6	3.5	3.8	3.2	3.0
<b>Durable goods</b> .....		41.3	41.2	41.9	40.7	40.3	3.7	3.5	3.9	3.2	3.0
Lumber and wood products .....	24	40.2	39.9	40.1	38.9	38.4	3.5	3.4	3.3	2.6	-
Logging .....	241	40.9	40.0	39.7	37.9	-	5.0	4.7	4.2	3.3	-
Sawmills and planing mills .....	242	41.1	41.1	40.9	40.1	-	4.2	4.3	4.0	3.4	-
Sawmills and planing mills, general .....	2421	41.5	41.5	41.3	40.4	-	4.5	4.7	4.3	3.7	-
Hardwood dimension and flooring mills .....	2426	39.7	39.7	39.5	39.1	-	2.9	3.0	2.9	2.3	-
Millwork, plywood, and structural members .....	243	39.7	39.5	40.0	38.7	-	2.9	2.8	2.8	2.0	-
Millwork .....	2431	39.2	38.7	39.4	38.1	-	2.2	2.0	2.2	1.5	-
Wood kitchen cabinets .....	2434	39.1	38.8	39.7	38.2	-	2.7	2.6	2.6	1.8	-
Hardwood veneer and plywood .....	2435	40.7	41.4	41.6	41.2	-	3.6	4.1	3.6	3.5	-
Softwood veneer and plywood .....	2436	42.2	42.2	42.8	41.4	-	4.6	4.9	4.4	3.4	-
Wood containers .....	244	39.4	38.4	39.9	39.3	-	3.3	3.2	3.1	2.8	-
Wood buildings and mobile homes .....	245	38.4	37.0	37.7	35.8	-	1.9	1.2	1.9	1.0	-
Mobile homes .....	2451	38.3	37.0	37.9	35.7	-	1.9	1.0	1.9	1.0	-
Miscellaneous wood products .....	249	40.3	40.4	40.5	39.6	-	3.2	3.1	2.9	2.5	-
Furniture and fixtures .....	25	39.1	39.3	39.8	38.2	37.0	2.4	2.5	2.6	1.8	-
Household furniture .....	251	38.5	38.7	38.8	37.5	-	2.1	2.3	2.1	1.6	-
Wood household furniture .....	2511	39.0	39.5	38.7	38.1	-	2.3	2.6	2.1	1.8	-
Upholstered household furniture .....	2512	37.1	37.0	38.6	36.0	-	1.6	1.5	2.2	1.2	-
Metal household furniture .....	2514	40.6	40.5	42.1	40.2	-	3.1	2.7	3.4	2.3	-
Mattresses and bedsprings .....	2515	39.1	38.7	38.4	37.8	-	2.7	2.7	1.4	1.7	-
Office furniture .....	252	39.6	40.4	41.0	38.6	-	2.7	2.8	3.3	1.9	-
Public building and related furniture .....	253	40.6	41.1	41.9	39.4	-	3.3	3.2	3.5	2.6	-
Partitions and fixtures .....	254	40.6	39.9	41.3	40.6	-	3.1	2.8	3.5	2.6	-
Miscellaneous furniture and fixtures .....	259	39.4	39.5	40.4	37.7	-	2.4	2.4	2.7	2.0	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Total private</b> .....		\$10.03	\$9.87	\$10.20	\$10.24	\$10.24	\$346.04	\$336.57	\$353.94	\$346.11	\$347.14
<b>Mining</b> .....		13.65	13.46	13.84	14.17	14.12	600.60	586.86	628.34	627.73	629.75
Metal mining .....	10	14.10	13.69	14.39	14.65	-	602.07	591.41	610.14	632.88	-
Iron ores .....	101	14.60	14.20	15.43	16.22	-	627.80	617.70	663.49	690.97	-
Copper ores .....	102	12.48	12.24	12.97	13.38	-	569.09	581.40	574.57	651.61	-
Coal mining .....	12	16.68	16.50	16.88	17.23	-	733.92	735.90	764.66	790.86	-
Bituminous coal and lignite mining .....	122	16.83	16.62	17.05	17.41	-	740.52	742.91	772.37	799.12	-
Oil and gas extraction .....	13	12.85	12.56	13.02	13.28	-	564.12	542.59	600.22	590.96	-
Crude petroleum and natural gas .....	131	16.22	15.74	16.54	16.55	-	694.22	678.39	722.80	701.72	-
Oil and gas field services .....	138	11.07	10.74	11.33	11.61	-	492.62	463.97	535.91	530.58	-
Nonmetallic minerals, except fuels .....	14	11.57	11.35	11.74	11.77	-	524.12	497.13	528.30	490.81	-
Crushed and broken stone .....	142	11.07	10.57	11.12	10.98	-	509.22	461.91	508.18	447.98	-
<b>Construction</b> .....		13.73	13.59	13.87	13.96	13.86	524.49	510.98	531.22	502.56	512.82
General building contractors .....	15	12.92	12.86	13.13	13.17	-	487.08	482.25	496.31	478.07	-
Residential building construction .....	152	12.18	12.25	12.31	12.26	-	449.44	443.45	449.32	430.33	-
Operative builders .....	153	12.94	12.35	13.73	13.53	-	482.66	461.89	506.64	489.79	-
Nonresidential building construction .....	154	13.63	13.46	13.85	13.99	-	524.76	520.90	541.54	523.23	-
Heavy construction, except building .....	16	13.37	12.95	13.33	13.63	-	560.20	538.72	551.86	500.22	-
Highway and street construction .....	161	13.08	12.14	12.69	12.98	-	558.52	486.81	522.83	447.81	-
Heavy construction, except highway .....	162	13.50	13.17	13.57	13.82	-	561.60	553.14	563.16	516.87	-
Special trade contractors .....	17	14.15	14.07	14.32	14.36	-	529.21	516.37	538.43	514.09	-
Plumbing, heating, and air conditioning .....	171	14.42	14.36	14.61	14.63	-	555.17	552.86	565.41	553.01	-
Painting and paper hanging .....	172	12.99	13.25	12.95	13.11	-	466.34	466.40	470.09	456.23	-
Electrical work .....	173	15.07	14.94	15.37	15.25	-	589.24	581.17	608.65	587.13	-
Masonry, stonework, and plastering .....	174	14.19	13.92	14.20	14.09	-	498.07	481.63	504.10	470.61	-
Carpentry and floor work .....	175	14.09	14.05	14.15	14.10	-	497.38	480.51	512.23	480.81	-
Roofing, siding, and sheet metal work .....	176	12.22	12.02	12.27	12.32	-	421.59	394.26	428.22	369.60	-
<b>Manufacturing</b> .....		10.84	10.60	11.06	11.06	11.04	442.27	430.36	456.78	444.61	439.39
<b>Durable goods</b> .....		11.35	11.06	11.59	11.58	11.57	468.76	455.67	485.62	471.31	466.27
Lumber and wood products .....	24	9.10	9.00	9.12	9.12	9.10	365.82	359.10	365.71	354.77	349.44
Logging .....	241	11.32	11.01	10.93	10.91	-	462.99	440.40	433.92	413.49	-
Sawmills and planing mills .....	242	9.20	9.21	9.24	9.27	-	378.12	378.53	377.92	371.73	-
Sawmills and planing mills, general .....	2421	9.56	9.58	9.59	9.63	-	396.74	397.57	396.07	389.05	-
Hardwood dimension and flooring mills .....	2426	7.55	7.48	7.65	7.61	-	299.74	296.96	302.18	297.55	-
Millwork, plywood, and structural members .....	243	9.06	8.95	9.17	9.19	-	359.68	353.53	366.80	355.65	-
Millwork .....	2431	9.34	9.16	9.53	9.56	-	366.13	354.49	375.48	364.24	-
Wood kitchen cabinets .....	2434	8.52	8.44	8.57	8.57	-	333.13	327.47	340.23	327.37	-
Hardwood veneer and plywood .....	2435	7.68	7.53	7.75	7.80	-	312.58	311.74	322.40	321.36	-
Softwood veneer and plywood .....	2436	10.34	10.35	10.31	10.33	-	436.35	436.77	441.27	427.66	-
Wood containers .....	244	6.64	6.66	6.65	6.58	-	261.62	255.74	265.34	258.59	-
Wood buildings and mobile homes .....	245	8.60	8.37	8.80	8.75	-	330.24	309.69	331.76	313.25	-
Mobile homes .....	2451	8.68	8.39	8.83	8.83	-	332.44	310.43	334.66	315.23	-
Miscellaneous wood products .....	249	8.25	8.16	8.41	8.43	-	332.48	329.66	340.61	333.83	-
Furniture and fixtures .....	25	8.53	8.45	8.70	8.63	8.68	333.52	332.09	346.26	329.67	321.16
Household furniture .....	251	7.88	7.78	8.05	7.98	-	303.38	301.09	312.34	299.25	-
Wood household furniture .....	2511	7.38	7.30	7.52	7.54	-	287.82	288.35	291.02	287.27	-
Upholstered household furniture .....	2512	8.60	8.56	8.79	8.66	-	319.06	316.72	339.29	311.76	-
Metal household furniture .....	2514	7.97	7.70	8.07	7.96	-	323.58	311.85	339.75	319.99	-
Mattresses and bedsprings .....	2515	8.24	8.22	8.43	8.33	-	322.18	318.11	323.71	314.87	-
Office furniture .....	252	9.64	9.75	9.87	9.40	-	381.74	393.90	404.67	362.84	-
Public building and related furniture .....	253	9.08	8.85	9.30	9.46	-	368.65	363.74	389.67	372.72	-
Partitions and fixtures .....	254	9.76	9.73	9.87	9.94	-	396.26	388.23	407.63	403.56	-
Miscellaneous furniture and fixtures .....	259	8.88	8.79	8.93	9.08	-	349.87	347.21	360.77	342.32	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	42.0	41.4	41.8	40.1	40.5	4.9	4.5	4.5	3.8	-
Flat glass .....	321	44.4	42.4	43.8	43.7	-	5.9	5.5	5.0	5.0	-
Glass and glassware, pressed or blown .....	322	41.7	41.5	41.7	41.6	-	4.6	4.5	4.6	4.4	-
Glass containers .....	3221	42.1	42.0	42.2	42.4	-	5.5	5.5	5.5	5.5	-
Pressed and blown glass, nec .....	3229	41.3	41.0	41.1	40.8	-	3.5	3.4	3.5	3.2	-
Products of purchased glass .....	323	40.5	39.9	41.1	41.1	-	3.0	2.5	3.3	2.7	-
Cement, hydraulic .....	324	42.2	42.1	42.0	42.8	-	4.3	4.7	3.8	5.1	-
Structural clay products .....	325	40.7	40.4	40.5	39.5	-	3.4	3.2	2.7	2.5	-
Pottery and related products .....	326	39.6	40.2	39.8	39.2	-	2.7	3.1	2.9	2.2	-
Concrete, gypsum, and plaster products .....	327	43.1	41.5	42.5	38.3	-	6.3	5.5	5.4	3.7	-
Concrete block and brick .....	3271	44.5	42.6	43.4	39.3	-	6.7	5.3	5.7	4.0	-
Concrete products, nec .....	3272	43.0	42.7	43.2	40.3	-	5.7	5.7	5.1	4.0	-
Ready-mixed concrete .....	3273	42.3	39.6	41.0	35.4	-	6.3	4.9	5.2	3.0	-
Misc. nonmetallic mineral products .....	329	42.1	42.7	42.0	41.4	-	4.8	5.2	4.7	4.7	-
Abrasive products .....	3291	41.9	43.2	41.4	41.8	-	3.4	3.7	3.6	3.5	-
Asbestos products .....	3292	40.4	41.8	41.8	38.7	-	3.9	4.9	4.6	3.5	-
Primary metal industries .....	33	42.7	42.7	42.9	42.2	41.6	5.0	4.7	5.0	4.4	-
Blast furnaces and basic steel products .....	331	43.5	43.2	43.7	42.9	42.1	5.6	5.0	5.6	4.7	-
Blast furnaces and steel mills .....	3312	43.7	43.4	43.9	43.2	-	5.8	5.1	5.9	4.9	-
Steel pipe and tubes .....	3317	43.8	43.5	44.0	43.0	-	5.7	5.7	5.1	4.5	-
Iron and steel foundries .....	332	42.1	41.9	42.2	41.3	-	4.6	4.1	4.4	4.2	-
Gray and ductile iron foundries .....	3321	42.3	41.9	42.1	41.1	-	4.7	4.1	4.3	4.2	-
Malleable iron foundries .....	3322	42.6	40.3	43.5	43.3	-	5.0	3.4	5.4	4.8	-
Steel foundries, nec .....	3325	41.4	42.6	41.4	40.7	-	4.4	4.9	4.4	3.8	-
Primary nonferrous metals .....	333	43.8	44.6	44.3	44.1	-	5.0	4.9	5.3	5.5	-
Primary aluminum .....	3334	43.2	43.4	43.8	43.5	-	5.2	4.8	5.6	5.5	-
Nonferrous rolling and drawing .....	335	43.0	43.5	42.9	42.2	-	5.6	5.7	5.5	4.9	-
Copper rolling and drawing .....	3351	42.8	43.5	40.7	41.0	-	5.7	5.6	4.9	4.2	-
Aluminum sheet, plate, and foil .....	3353	44.3	44.7	45.4	43.7	-	8.1	7.4	9.2	7.3	-
Nonferrous wire drawing and insulating .....	3357	42.1	42.2	41.8	41.3	-	4.8	4.5	4.3	4.1	-
Nonferrous foundries (castings) .....	336	40.3	39.7	41.1	40.6	-	2.9	2.5	3.3	2.7	-
Aluminum foundries .....	3365	40.8	40.1	41.2	40.6	-	3.0	2.4	3.8	3.0	-
Fabricated metal products .....	34	41.3	41.1	41.9	40.7	40.3	3.6	3.5	3.7	3.1	-
Metal cans and shipping containers .....	341	43.8	44.0	44.6	43.4	-	5.4	5.3	5.1	5.1	-
Metal cans .....	3411	44.2	44.5	45.2	43.9	-	5.4	5.4	5.2	5.1	-
Cutlery, handtools, and hardware .....	342	40.9	41.5	41.3	40.2	-	3.0	3.3	3.0	2.3	-
Hand and edge tools, and blades and handsaws ...	3423,5	40.4	41.4	40.5	39.7	-	2.7	3.2	2.7	2.1	-
Hardware, nec .....	3429	40.6	41.1	41.1	40.1	-	2.8	3.0	2.7	2.1	-
Plumbing and heating, except electric .....	343	40.5	41.0	40.9	39.5	-	3.0	3.3	3.2	2.4	-
Plumbing fixture fittings and trim .....	3432	40.0	41.0	40.5	40.4	-	2.6	2.7	3.3	3.2	-
Heating equipment, except electric .....	3433	40.0	39.8	41.9	37.2	-	2.7	3.1	3.2	1.2	-
Fabricated structural metal products .....	344	41.0	40.9	41.6	40.2	-	3.5	3.4	3.7	2.8	-
Fabricated structural metal .....	3441	42.1	42.3	42.6	40.7	-	4.2	4.2	4.3	3.2	-
Metal doors, sash, and trim .....	3442	39.2	38.1	38.9	37.5	-	2.1	1.4	2.0	1.3	-
Fabricated plate work (boiler shops) .....	3443	42.3	42.4	43.2	42.5	-	4.4	4.6	4.7	4.1	-
Sheet metal work .....	3444	40.5	40.6	41.6	39.9	-	3.2	3.1	3.4	2.7	-
Architectural metal work .....	3446	39.3	40.8	40.4	38.5	-	3.2	3.7	3.0	2.3	-
Screw machine products, bolts, etc .....	345	41.9	41.7	41.8	41.2	-	4.4	4.1	4.2	3.5	-
Screw machine products .....	3451	40.5	40.4	40.5	40.6	-	3.3	3.3	3.2	2.9	-
Bolts, nuts, rivets, and washers .....	3452	43.4	43.1	43.2	41.9	-	5.5	5.0	5.2	4.1	-
Metal forgings and stampings .....	346	41.7	40.4	41.7	40.8	-	3.7	3.3	3.2	2.8	-
Iron and steel forgings .....	3462	42.3	42.4	42.4	42.2	-	4.1	4.0	4.0	3.7	-
Automotive stampings .....	3465	42.0	39.3	41.3	40.4	-	3.9	2.9	2.5	2.3	-
Metal stampings, nec .....	3469	40.9	40.7	41.7	40.5	-	3.4	3.4	3.4	2.9	-
Metal services, nec .....	347	40.9	40.5	42.1	40.4	-	3.8	3.4	4.3	3.5	-
Plating and polishing .....	3471	40.3	39.5	41.3	39.7	-	3.1	2.7	3.5	2.9	-
Metal coating and allied services .....	3479	42.0	42.2	43.6	41.7	-	4.9	4.8	5.7	4.7	-
Ordnance and accessories, nec .....	348	41.2	41.6	42.5	40.9	-	3.4	3.2	4.5	3.8	-
Ammunition, except for small arms, nec .....	3483	40.7	40.6	42.9	40.7	-	2.9	2.5	4.4	3.2	-
Misc. fabricated metal products .....	349	41.3	41.2	42.2	41.1	-	3.5	3.6	4.0	3.2	-
Valves and pipe fittings, nec .....	3494	43.1	42.2	44.3	41.9	-	3.8	3.6	5.6	3.9	-
Misc. fabricated wire products .....	3496	40.3	39.7	41.4	39.7	-	3.1	3.0	3.6	2.7	-

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 hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$11.15	\$10.96	\$11.28	\$11.28	\$11.26	\$468.30	\$453.74	\$471.50	\$452.33	\$456.03
Flat glass .....	321	15.15	14.82	15.17	15.10	-	672.66	628.37	664.45	659.87	-
Glass and glassware, pressed or blown .....	322	12.43	12.20	12.65	12.72	-	518.33	506.30	527.51	529.15	-
Glass containers .....	3221	13.16	12.86	13.32	13.41	-	554.04	540.12	562.10	568.58	-
Pressed and blown glass, nec .....	3229	11.63	11.47	11.88	11.94	-	480.32	470.27	488.27	487.15	-
Products of purchased glass .....	323	9.74	9.44	9.93	9.81	-	394.47	376.66	408.12	403.19	-
Cement, hydraulic .....	324	13.90	13.96	13.92	14.22	-	586.58	587.72	584.64	608.62	-
Structural clay products .....	325	9.56	9.48	9.55	9.46	-	389.09	382.99	386.78	373.67	-
Pottery and related products .....	326	9.61	9.65	9.70	9.69	-	380.56	387.93	386.06	379.85	-
Concrete, gypsum, and plaster products .....	327	10.82	10.57	10.88	10.82	-	466.34	438.66	462.40	414.41	-
Concrete block and brick .....	3271	9.64	9.24	9.68	9.92	-	428.98	393.62	420.11	389.86	-
Concrete products, nec .....	3272	9.72	9.49	9.80	9.79	-	417.96	405.22	423.36	394.54	-
Ready-mixed concrete .....	3273	11.71	11.56	11.81	11.77	-	495.33	457.78	484.21	416.66	-
Misc. nonmetallic mineral products .....	329	11.64	11.49	11.79	11.61	-	490.04	490.62	495.18	480.65	-
Abrasive products .....	3291	10.40	10.35	10.62	10.53	-	435.76	447.12	439.67	440.15	-
Asbestos products .....	3292	11.05	10.81	11.35	11.32	-	446.42	451.86	474.43	438.08	-
Primary metal industries .....	33	12.90	12.56	13.11	13.17	13.04	550.83	536.31	562.42	555.77	542.46
Blast furnaces and basic steel products .....	331	14.82	14.47	14.94	15.05	14.81	644.67	625.10	652.88	645.65	623.50
Blast furnaces and steel mills .....	3312	15.59	15.19	15.69	15.84	-	681.28	659.25	688.79	684.29	-
Steel pipe and tubes .....	3317	11.88	11.70	12.13	12.10	-	520.34	508.95	533.72	520.30	-
Iron and steel foundries .....	332	11.52	11.06	11.61	11.80	-	484.99	463.41	489.94	487.34	-
Gray and ductile iron foundries .....	3321	11.96	11.35	12.05	12.30	-	505.91	475.57	507.31	505.53	-
Malleable iron foundries .....	3322	12.50	12.41	12.55	12.83	-	532.50	500.12	545.93	555.54	-
Steel foundries, nec .....	3325	10.97	10.89	11.10	11.03	-	454.16	463.91	459.54	448.92	-
Primary nonferrous metals .....	333	14.36	13.95	14.69	14.67	-	628.97	622.17	650.77	646.95	-
Primary aluminum .....	3334	14.60	14.28	14.68	14.73	-	630.72	619.75	642.98	640.76	-
Nonferrous rolling and drawing .....	335	12.28	11.95	12.60	12.54	-	528.04	519.83	540.54	529.19	-
Copper rolling and drawing .....	3351	11.56	11.26	11.79	11.64	-	494.77	489.81	479.85	477.24	-
Aluminum sheet, plate, and foil .....	3353	15.22	14.73	16.04	15.70	-	674.25	658.43	728.22	686.09	-
Nonferrous wire drawing and insulating .....	3357	12.08	11.60	12.14	12.19	-	508.57	489.52	507.45	503.45	-
Nonferrous foundries (castings) .....	336	10.26	9.94	10.59	10.52	-	413.48	394.62	435.25	427.11	-
Aluminum foundries .....	3365	9.87	9.46	10.49	10.14	-	402.70	379.35	432.19	411.68	-
Fabricated metal products .....	34	10.83	10.60	11.05	11.01	11.03	447.28	435.66	463.00	448.11	444.51
Metal cans and shipping containers .....	341	14.26	14.01	14.44	14.44	-	624.59	616.44	644.02	626.70	-
Metal cans .....	3411	15.10	14.85	15.25	15.24	-	667.42	660.83	689.30	669.04	-
Cutlery, handtools, and hardware .....	342	10.76	10.39	10.86	10.83	-	440.08	431.19	448.52	435.37	-
Hand and edge tools, and blades and handsaws .....	3423,5	10.00	9.86	10.08	10.15	-	404.00	408.20	408.24	402.96	-
Hardware, nec .....	3429	11.05	10.56	11.08	11.01	-	448.63	434.02	455.39	441.50	-
Plumbing and heating, except electric .....	343	9.74	9.65	9.87	9.87	-	394.47	395.65	403.68	389.87	-
Plumbing fixture fittings and trim .....	3432	9.34	9.19	9.62	9.60	-	373.60	376.79	389.61	387.84	-
Heating equipment, except electric .....	3433	9.62	9.58	9.75	9.69	-	384.80	381.28	408.53	360.47	-
Fabricated structural metal products .....	344	10.16	10.09	10.39	10.37	-	416.56	412.68	432.22	416.87	-
Fabricated structural metal .....	3441	10.32	10.34	10.36	10.36	-	434.47	437.38	441.34	421.65	-
Metal doors, sash, and trim .....	3442	8.54	8.48	8.67	8.71	-	334.77	323.09	337.26	326.63	-
Fabricated plate work (boiler shops) .....	3443	11.02	10.83	11.26	11.13	-	466.15	459.19	486.43	473.03	-
Sheet metal work .....	3444	10.46	10.33	10.72	10.73	-	423.63	419.40	445.95	428.13	-
Architectural metal work .....	3446	9.82	9.71	10.10	10.22	-	385.93	396.17	408.04	393.47	-
Screw machine products, bolts, etc .....	345	10.70	10.49	10.93	10.88	-	448.33	437.43	456.87	448.26	-
Screw machine products .....	3451	10.04	9.90	10.13	10.14	-	406.62	399.96	410.27	411.68	-
Bolts, nuts, rivets, and washers .....	3452	11.34	11.06	11.72	11.63	-	492.16	476.69	506.30	487.30	-
Metal forgings and stampings .....	346	12.71	12.21	12.96	12.88	-	530.01	493.28	540.43	525.50	-
Iron and steel forgings .....	3462	12.96	12.91	12.97	12.92	-	548.21	547.38	549.93	545.22	-
Automotive stampings .....	3465	14.36	13.75	14.62	14.66	-	603.12	540.38	603.81	592.26	-
Metal stampings, nec .....	3469	10.19	10.06	10.48	10.40	-	416.77	409.44	437.02	421.20	-
Metal services, nec .....	347	8.98	8.77	9.24	9.17	-	367.28	355.19	389.00	370.47	-
Plating and polishing .....	3471	8.90	8.73	9.13	9.04	-	358.67	344.84	377.07	358.89	-
Metal coating and allied services .....	3479	9.13	8.84	9.43	9.38	-	383.46	373.05	411.15	391.15	-
Ordnance and accessories, nec .....	348	11.93	11.78	12.19	12.15	-	491.52	490.05	518.08	496.94	-
Ammunition, except for small arms, nec .....	3483	11.65	11.49	11.85	11.62	-	474.16	466.49	508.37	472.93	-
Misc. fabricated metal products .....	349	10.17	10.12	10.46	10.47	-	420.02	416.94	441.41	430.32	-
Valves and pipe fittings, nec .....	3494	10.45	10.72	10.84	10.75	-	450.40	452.38	480.21	450.43	-
Misc. fabricated wire products .....	3496	8.83	8.72	9.06	9.08	-	355.85	346.18	375.08	360.48	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	42.0	42.2	43.0	41.8	41.4	3.9	4.0	4.6	3.7	-
Engines and turbines .....	351	42.6	43.4	43.6	42.7	-	4.1	4.4	5.8	3.9	-
Turbines and turbine generator sets .....	3511	44.1	43.2	47.0	43.1	-	6.0	3.7	8.1	4.0	-
Internal combustion engines, nec .....	3519	42.0	43.4	42.2	42.5	-	3.4	4.8	4.9	3.8	-
Farm and garden machinery .....	352	41.5	42.0	42.0	41.3	-	3.6	3.9	3.4	3.0	-
Farm machinery and equipment .....	3523	41.5	42.1	41.9	40.8	-	3.9	4.1	3.8	3.0	-
Construction and related machinery .....	353	42.5	42.3	43.9	42.6	-	3.9	4.1	4.8	3.9	-
Construction machinery .....	3531	41.8	42.1	41.3	41.5	-	3.0	3.4	2.5	2.0	-
Mining machinery .....	3532	41.9	41.8	42.9	40.8	-	4.2	4.0	4.7	4.0	-
Oil and gas field machinery .....	3533	46.3	44.6	49.2	47.2	-	6.5	6.3	8.4	7.2	-
Conveyors and conveying equipment .....	3535	41.8	42.0	44.5	41.9	-	4.4	4.6	6.2	4.7	-
Industrial trucks and tractors .....	3537	40.2	40.2	42.4	39.5	-	2.3	2.4	3.2	1.8	-
Metalworking machinery .....	354	42.5	43.1	43.8	42.6	-	4.7	5.0	5.3	4.5	-
Machine tools, metal cutting types .....	3541	41.6	43.4	43.3	42.4	-	3.9	4.5	5.0	4.4	-
Machine tools, metal forming types .....	3542	43.1	44.2	45.0	42.9	-	4.8	6.2	5.6	4.0	-
Special dies, tools, jigs, and fixtures .....	3544	43.4	43.7	44.5	43.4	-	5.6	5.9	6.2	5.7	-
Machine tool accessories .....	3545	41.5	41.7	42.8	41.1	-	3.5	4.0	4.1	2.9	-
Power driven handtools .....	3546	41.9	42.5	42.9	42.7	-	3.4	3.7	3.5	2.9	-
Special industry machinery .....	355	41.9	42.7	42.8	41.5	-	4.0	4.5	4.5	3.6	-
Textile machinery .....	3552	42.4	43.4	42.4	41.7	-	3.5	4.2	3.1	2.8	-
Printing trades machinery .....	3555	38.5	39.7	39.3	37.9	-	3.7	4.6	3.7	3.0	-
Food products machinery .....	3556	41.7	42.4	43.8	42.3	-	3.9	3.9	5.5	4.2	-
General industrial machinery .....	356	41.8	42.0	42.9	41.5	-	4.0	3.9	4.6	3.6	-
Pumps and pumping equipment .....	3561	40.8	40.2	42.4	41.1	-	3.7	3.3	4.7	3.8	-
Ball and roller bearings .....	3562	43.0	42.5	43.1	42.0	-	5.1	4.5	4.9	3.6	-
Air and gas compressors .....	3563	43.8	42.9	45.0	44.9	-	4.6	4.2	5.7	4.7	-
Blowers and fans .....	3564	39.9	40.5	41.6	39.9	-	2.8	2.6	3.7	2.5	-
Speed changers, drives, and gears .....	3566	41.7	42.5	43.9	41.0	-	4.9	5.2	6.2	5.0	-
Power transmission equipment, nec .....	3568	42.0	43.7	41.9	40.1	-	4.0	4.4	3.5	3.0	-
Computer and office equipment .....	357	42.0	41.8	43.3	41.2	-	3.1	3.0	3.9	2.7	-
Electronic computers .....	3571	41.8	41.8	43.4	41.0	-	3.2	3.1	4.4	3.1	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	40.4	40.0	42.9	40.0	-	2.7	1.9	4.2	2.3	-
Refrigeration and service machinery .....	358	40.1	40.2	41.2	40.3	-	2.5	2.5	3.0	2.4	-
Refrigeration and heating equipment .....	3585	40.1	40.3	41.1	40.5	-	2.6	2.7	2.8	2.5	-
Misc. industrial and commercial machinery .....	359	42.1	42.4	42.7	41.6	-	4.4	4.4	4.9	4.2	-
Carburetors, pistons, rings, valves .....	3592	41.2	41.2	41.2	41.4	-	3.8	3.5	3.7	3.7	-
Scales, balances, and industrial machinery, nec .....	3596,9	42.0	42.3	42.5	41.5	-	4.5	4.4	4.8	4.3	-
Electronic and other electrical equipment .....	36	40.8	41.0	41.8	40.4	39.9	3.2	3.1	3.7	3.0	-
Electric distribution equipment .....	361	41.5	41.7	43.3	41.7	-	3.0	3.1	4.1	3.1	-
Transformers, except electronic .....	3612	42.0	42.1	43.6	41.9	-	3.5	3.7	4.2	3.1	-
Switchgear and switchboard apparatus .....	3613	40.9	41.3	43.0	41.4	-	2.6	2.6	3.9	3.2	-
Electrical industrial apparatus .....	362	41.7	41.9	43.1	42.1	-	3.2	3.4	3.8	3.1	-
Motors and generators .....	3621	41.3	41.8	42.3	41.9	-	3.3	3.5	3.4	3.4	-
Relays and industrial controls .....	3625	41.9	41.6	43.8	41.8	-	3.0	3.0	4.1	2.6	-
Household appliances .....	363	39.4	39.5	40.1	38.9	-	2.3	2.1	2.7	2.0	-
Household refrigerators and freezers .....	3632	37.7	39.2	38.8	39.1	-	2.3	2.4	2.2	1.2	-
Household laundry equipment .....	3633	40.4	41.1	40.1	40.5	-	2.3	1.4	1.9	2.7	-
Electric housewares and fans .....	3634	40.3	39.6	40.2	37.1	-	2.1	2.0	2.2	1.2	-
Electric lighting and wiring equipment .....	364	40.1	40.6	41.0	39.6	-	2.9	3.2	3.1	2.6	-
Electric lamps .....	3641	40.8	40.7	41.9	40.6	-	3.2	3.1	3.3	3.3	-
Current-carrying wiring devices .....	3643	39.9	41.1	41.0	39.1	-	2.9	3.4	3.3	2.5	-
Noncurrent-carrying wiring devices .....	3644	40.8	41.9	42.3	40.6	-	2.2	2.9	2.8	2.1	-
Residential lighting fixtures .....	3645	37.9	38.3	37.1	37.1	-	2.2	2.3	1.8	1.6	-
Household audio and video equipment .....	365	40.7	40.9	41.0	39.7	-	3.1	2.6	2.8	2.5	-
Household audio and video equipment .....	3651	41.1	41.0	42.2	40.7	-	2.6	1.7	2.7	1.8	-
Communications equipment .....	366	42.6	43.4	44.1	41.8	-	3.2	3.2	5.3	3.8	-
Telephone and telegraph apparatus .....	3661	44.4	45.2	46.7	43.3	-	3.8	3.4	7.4	5.1	-

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 hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	\$11.77	\$11.55	\$12.11	\$12.04	\$12.04	\$494.34	\$487.41	\$520.73	\$503.27	\$498.46
Engines and turbines .....	351	14.56	14.25	15.24	14.93	-	620.26	618.45	664.46	637.51	-
Turbines and turbine generator sets .....	3511	14.87	14.39	15.52	15.17	-	655.77	621.65	729.44	653.83	-
Internal combustion engines, nec .....	3519	14.43	14.20	15.12	14.83	-	606.06	616.28	638.06	630.28	-
Farm and garden machinery .....	352	10.99	10.68	11.31	10.90	-	456.09	448.56	475.02	450.17	-
Farm machinery and equipment .....	3523	12.10	11.79	12.56	12.05	-	502.15	496.36	526.26	491.64	-
Construction and related machinery .....	353	11.88	11.72	12.21	12.18	-	504.90	495.76	536.02	518.87	-
Construction machinery .....	3531	13.43	13.09	14.25	14.06	-	561.37	551.09	588.53	583.49	-
Mining machinery .....	3532	11.85	11.65	12.22	12.24	-	496.52	486.97	524.24	499.39	-
Oil and gas field machinery .....	3533	11.23	11.31	11.33	11.37	-	519.95	504.43	557.44	536.66	-
Conveyors and conveying equipment .....	3535	10.70	10.52	11.03	11.05	-	447.26	441.84	490.84	463.00	-
Industrial trucks and tractors .....	3537	10.41	10.21	10.57	10.52	-	418.48	410.44	448.17	415.54	-
Metalworking machinery .....	354	12.27	12.06	12.56	12.59	-	521.48	519.79	550.13	536.33	-
Machine tools, metal cutting types .....	3541	12.20	11.86	12.60	12.71	-	507.52	514.72	545.58	538.90	-
Machine tools, metal forming types .....	3542	12.41	12.39	12.68	12.58	-	534.87	547.64	570.60	539.68	-
Special dies, tools, jigs, and fixtures .....	3544	12.92	12.77	13.16	13.25	-	560.73	558.05	585.62	575.05	-
Machine tool accessories .....	3545	10.89	10.68	11.19	11.10	-	451.94	445.36	478.93	456.21	-
Power driven handtools .....	3546	9.95	9.66	10.27	10.34	-	416.91	410.55	440.58	441.52	-
Special industry machinery .....	355	11.88	11.72	12.16	12.07	-	497.77	500.44	520.45	500.91	-
Textile machinery .....	3552	10.14	9.98	10.29	10.27	-	429.94	433.13	436.30	428.26	-
Printing trades machinery .....	3555	13.82	13.70	13.93	13.84	-	532.07	543.89	547.45	524.54	-
Food products machinery .....	3556	11.72	11.55	12.02	11.86	-	488.72	489.72	526.48	501.68	-
General industrial machinery .....	356	11.31	11.00	11.60	11.58	-	472.76	462.00	497.64	480.57	-
Pumps and pumping equipment .....	3561	11.80	11.30	12.29	12.10	-	481.44	454.26	521.10	497.31	-
Ball and roller bearings .....	3562	12.01	11.39	12.24	12.25	-	516.43	484.08	527.54	514.50	-
Air and gas compressors .....	3563	11.68	11.40	11.97	12.10	-	511.58	489.06	538.65	543.29	-
Blowers and fans .....	3564	9.99	9.99	10.21	10.12	-	398.60	404.60	424.74	403.79	-
Speed changers, drives, and gears .....	3566	11.73	11.64	12.21	12.15	-	489.14	494.70	536.02	498.15	-
Power transmission equipment, nec .....	3568	10.80	10.61	10.97	11.16	-	453.60	463.66	459.64	447.52	-
Computer and office equipment .....	357	11.51	11.20	12.05	12.05	-	483.42	468.16	521.77	496.46	-
Electronic computers .....	3571	12.03	11.68	12.78	12.66	-	502.85	488.22	554.65	519.06	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	11.00	10.46	11.57	11.56	-	444.40	418.40	496.35	462.40	-
Refrigeration and service machinery .....	358	10.97	10.77	11.26	11.08	-	439.90	432.95	463.91	446.52	-
Refrigeration and heating equipment .....	3585	11.13	10.89	11.42	11.30	-	446.31	438.87	469.36	457.65	-
Misc. industrial and commercial machinery .....	359	11.58	11.47	11.81	11.75	-	487.52	486.33	504.29	488.80	-
Carburetors, pistons, rings, valves .....	3592	12.55	12.88	12.01	12.31	-	517.06	530.66	494.81	509.63	-
Scales, balances, and industrial machinery, nec .....	3596,9	11.24	11.13	11.51	11.49	-	472.08	470.80	489.18	476.84	-
Electronic and other electrical equipment .....	36	10.31	10.13	10.57	10.60	10.58	420.65	415.33	441.83	428.24	422.14
Electric distribution equipment .....	361	10.20	9.92	10.58	10.53	-	423.30	413.66	458.11	439.10	-
Transformers, except electronic .....	3612	9.92	9.65	10.21	10.08	-	416.64	406.27	445.16	422.35	-
Switchgear and switchboard apparatus .....	3613	10.49	10.22	10.97	10.99	-	429.04	422.09	471.71	454.99	-
Electrical industrial apparatus .....	362	10.04	10.01	10.20	10.16	-	418.67	419.42	439.62	427.74	-
Motors and generators .....	3621	9.96	10.07	9.97	9.97	-	411.35	420.93	421.73	417.74	-
Relays and industrial controls .....	3625	10.17	9.93	10.54	10.47	-	426.12	413.09	461.65	437.65	-
Household appliances .....	363	10.19	10.26	10.31	10.39	-	401.49	405.27	413.43	404.17	-
Household refrigerators and freezers .....	3632	11.45	11.81	11.76	11.62	-	431.67	462.95	456.29	454.34	-
Household laundry equipment .....	3633	12.34	12.01	12.50	12.72	-	498.54	493.61	501.25	515.16	-
Electric housewares and fans .....	3634	7.59	7.80	7.68	7.75	-	305.88	308.88	308.74	287.53	-
Electric lighting and wiring equipment .....	364	10.13	9.94	10.16	10.27	-	406.21	403.56	416.56	406.69	-
Electric lamps .....	3641	11.46	11.43	11.40	11.49	-	467.57	465.20	477.66	466.49	-
Current-carrying wiring devices .....	3643	9.95	9.92	10.09	10.20	-	397.01	407.71	413.69	398.82	-
Noncurrent-carrying wiring devices .....	3644	9.50	9.47	9.58	9.56	-	387.60	396.79	405.23	388.14	-
Residential lighting fixtures .....	3645	7.56	7.42	7.91	7.83	-	286.52	284.19	293.46	290.49	-
Household audio and video equipment .....	365	9.76	9.13	10.31	10.45	-	397.23	373.42	422.71	414.87	-
Household audio and video equipment .....	3651	10.17	9.46	10.67	10.87	-	417.99	387.86	450.27	442.41	-
Communications equipment .....	366	11.09	11.00	11.64	11.45	-	472.43	477.40	513.32	478.61	-
Telephone and telegraph apparatus .....	3661	11.62	11.42	12.42	12.14	-	515.93	516.18	580.01	525.66	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electric components and accessories .....	367	40.3	40.1	41.1	39.7	-	3.4	3.3	3.9	3.2	-
Electron tubes .....	3671	41.3	41.7	41.8	41.4	-	3.7	4.0	3.7	3.6	-
Semiconductors and related devices .....	3674	40.4	40.2	40.9	39.7	-	4.4	4.1	4.9	4.0	-
Electronic components, nec .....	3679	39.7	39.6	40.8	39.0	-	2.5	2.4	2.9	2.5	-
Misc. electrical equipment and supplies .....	369	41.1	41.3	41.7	40.9	-	3.3	3.3	3.2	2.8	-
Storage batteries .....	3691	41.2	42.0	41.9	40.4	-	3.6	3.8	3.1	2.5	-
Engine electrical equipment .....	3694	41.0	40.9	41.0	40.3	-	3.4	3.3	2.7	2.4	-
Transportation equipment .....	37	42.0	41.4	42.3	41.4	40.8	4.0	3.6	3.9	3.2	-
Motor vehicles and equipment .....	371	42.4	40.8	42.0	41.2	40.2	4.1	2.9	3.5	2.9	-
Motor vehicles and car bodies .....	3711	42.5	41.3	42.8	41.7	-	4.1	2.9	4.1	3.2	-
Truck and bus bodies .....	3713	41.3	39.7	41.4	41.0	-	3.3	2.2	2.7	2.6	-
Motor vehicle parts and accessories .....	3714	42.7	40.8	41.7	41.1	-	4.4	3.1	3.3	2.8	-
Truck trailers .....	3715	40.5	39.5	40.7	39.7	-	2.8	2.1	2.7	2.2	-
Aircraft and parts .....	372	42.3	42.7	43.0	42.1	-	4.6	4.6	4.9	4.0	-
Aircraft .....	3721	41.9	42.7	42.0	42.1	-	4.3	4.5	4.5	4.3	-
Aircraft engines and engine parts .....	3724	42.9	42.8	44.1	42.0	-	5.3	5.0	6.0	3.8	-
Aircraft parts and equipment, nec .....	3728	42.6	42.6	43.7	42.0	-	4.5	4.5	4.8	3.7	-
Ship and boat building and repairing .....	373	40.4	40.5	41.9	40.5	-	2.9	3.2	3.4	2.7	-
Ship building and repairing .....	3731	41.3	41.4	43.1	41.7	-	3.2	3.6	3.8	3.0	-
Boat building and repairing .....	3732	38.6	39.0	39.1	37.8	-	2.4	2.6	2.6	1.9	-
Railroad equipment .....	374	41.4	40.6	42.4	41.6	-	3.2	2.9	3.3	2.2	-
Guided missiles, space vehicles, and parts .....	376	42.5	43.3	43.7	42.7	-	3.8	4.4	3.4	3.5	-
Guided missiles and space vehicles .....	3761	42.8	43.4	44.6	43.1	-	4.1	4.5	3.6	3.9	-
Misc. transportation equipment .....	379	39.7	39.0	41.0	38.4	-	2.6	2.6	3.0	2.0	-
Travel trailers and campers .....	3792	38.3	37.1	38.1	37.5	-	1.8	1.6	1.0	0.8	-
Instruments and related products .....	38	41.1	41.0	42.0	41.0	41.1	2.8	2.7	3.4	2.8	-
Search and navigation equipment .....	381	40.9	41.0	42.4	41.4	-	2.4	2.3	3.0	2.5	-
Measuring and controlling devices .....	382	41.4	41.6	42.6	40.9	-	2.7	2.8	3.3	2.4	-
Environmental controls .....	3822	40.6	41.3	41.7	40.0	-	2.5	2.7	3.2	2.3	-
Process control instruments .....	3823	42.5	43.0	43.7	41.6	-	3.8	3.9	4.0	2.8	-
Instruments to measure electricity .....	3825	40.9	40.4	42.6	40.5	-	2.0	2.0	2.6	2.1	-
Medical instruments and supplies .....	384	41.0	40.7	42.0	40.8	-	3.1	2.9	4.1	3.3	-
Surgical and medical instruments .....	3841	40.8	40.6	41.5	40.1	-	3.3	2.9	4.3	3.6	-
Surgical appliances and supplies .....	3842	40.8	40.7	42.1	41.0	-	2.9	2.5	4.0	3.1	-
Ophthalmic goods .....	385	39.4	39.9	38.3	39.4	-	2.4	2.7	1.8	1.8	-
Photographic equipment and supplies .....	386	41.8	40.7	41.8	42.6	-	3.5	2.9	4.0	4.1	-
Watches, clocks, watchcases, and parts .....	387	39.2	37.8	39.8	37.8	-	2.2	2.3	1.7	1.4	-
Miscellaneous manufacturing industries .....	39	39.5	39.3	39.8	38.9	38.9	2.5	2.4	2.8	2.1	-
Jewelry, silverware, and plated ware .....	391	38.4	37.0	39.7	37.0	-	2.1	1.5	3.2	1.4	-
Jewelry, precious metal .....	3911	38.0	36.6	39.4	36.5	-	2.1	1.5	3.6	1.6	-
Musical instruments .....	393	39.8	39.0	40.2	38.9	-	2.1	2.1	2.3	1.6	-
Toys and sporting goods .....	394	39.7	39.7	39.9	39.9	-	2.7	2.6	3.0	2.8	-
Dolls, games, toys, and children's vehicles .....	3942,4	39.0	38.0	38.9	39.5	-	2.2	1.5	2.6	2.6	-
Sporting and athletic goods, nec .....	3949	40.2	40.8	40.6	40.1	-	3.0	3.3	3.2	2.8	-
Pens, pencils, office, and art supplies .....	395	40.4	40.7	40.6	39.8	-	2.4	2.9	2.4	1.8	-
Costume jewelry and notions .....	396	39.8	39.1	39.4	38.0	-	2.7	2.2	1.8	.7	-
Costume jewelry .....	3961	40.4	39.2	39.1	37.6	-	3.3	2.2	1.8	.7	-
Miscellaneous manufactures .....	399	39.3	39.5	39.8	38.9	-	2.7	2.6	2.9	2.4	-
Signs and advertising specialties .....	3993	39.9	40.2	40.3	39.1	-	3.1	2.8	3.4	2.4	-
<b>Nondurable goods .....</b>		<b>40.0</b>	<b>39.8</b>	<b>40.5</b>	<b>39.6</b>	<b>39.3</b>	<b>3.6</b>	<b>3.4</b>	<b>3.7</b>	<b>3.3</b>	<b>3.1</b>
Food and kindred products .....	20	40.8	40.3	41.5	40.3	39.5	4.5	4.2	4.7	4.2	-
Meat products .....	201	40.1	40.0	40.6	40.3	-	4.2	4.1	4.3	4.1	-
Meat packing plants .....	2011	41.2	40.2	42.2	42.2	-	4.9	4.4	5.3	5.5	-
Sausages and other prepared meats .....	2013	41.4	40.3	42.6	41.2	-	5.0	4.2	5.4	4.7	-
Poultry slaughtering and processing .....	2015	38.8	39.7	38.9	38.7	-	3.4	3.9	3.2	3.0	-
Dairy products .....	202	41.1	40.5	41.4	40.6	-	4.5	3.9	4.5	4.1	-
Cheese, natural and processed .....	2022	39.5	38.5	40.4	38.8	-	3.7	3.2	4.0	3.3	-
Fluid milk .....	2026	41.8	41.5	41.8	41.0	-	4.9	4.6	4.6	4.3	-
Preserved fruits and vegetables .....	203	40.8	40.5	41.7	39.9	-	4.7	4.4	4.2	3.7	-
Canned specialties .....	2032	43.4	44.7	45.3	44.3	-	5.7	8.2	7.7	7.7	-
Canned fruits and vegetables .....	2033	40.9	39.7	42.2	39.4	-	5.1	3.6	3.5	3.0	-
Frozen fruits and vegetables .....	2037	39.6	39.7	38.9	37.3	-	4.6	4.4	3.8	3.1	-

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 hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Electronic and other electrical equipment—Continued											
Electronic components and accessories .....	367	\$10.01	\$9.82	\$10.29	\$10.31	-	\$403.40	\$393.78	\$422.92	\$409.31	-
Electron tubes .....	3671	12.02	11.58	12.20	11.99	-	496.43	482.89	509.96	496.39	-
Semiconductors and related devices .....	3674	12.25	12.07	12.67	12.66	-	494.90	485.21	518.20	502.60	-
Electronic components, nec .....	3679	9.39	9.20	9.52	9.54	-	372.78	364.32	388.42	372.06	-
Misc. electrical equipment and supplies .....	369	11.23	10.83	11.32	11.53	-	461.55	447.28	472.04	471.58	-
Storage batteries .....	3691	12.34	11.94	12.72	12.70	-	508.41	501.48	532.97	513.08	-
Engine electrical equipment .....	3694	11.96	11.43	11.68	12.27	-	490.36	467.49	478.88	494.48	-
Transportation equipment .....	37	14.10	13.55	14.42	14.40	\$14.36	592.20	560.97	609.97	596.16	\$585.89
Motor vehicles and equipment .....	371	14.61	13.72	14.89	14.86	14.69	619.46	559.78	625.38	612.23	590.54
Motor vehicles and car bodies .....	3711	17.26	16.61	17.92	18.02	-	733.55	685.99	766.98	751.43	-
Truck and bus bodies .....	3713	12.48	12.07	12.27	12.52	-	515.42	479.18	507.98	513.32	-
Motor vehicle parts and accessories .....	3714	13.48	12.76	13.49	13.62	-	575.60	520.61	562.53	559.78	-
Truck trailers .....	3715	9.66	9.49	9.96	9.85	-	391.23	374.86	405.37	391.05	-
Aircraft and parts .....	372	14.81	14.55	15.23	15.19	-	626.46	621.29	654.89	639.50	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$14.84	\$14.65	\$15.31	\$15.06	-	\$636.64	\$627.02	\$675.17	\$632.52	-
Aircraft parts and equipment, nec .....	3728	13.41	13.17	13.77	13.67	-	571.27	561.04	601.75	574.14	-
Ship and boat building and repairing .....	373	10.92	10.81	11.25	11.30	-	441.17	437.81	471.38	457.65	-
Ship building and repairing .....	3731	11.85	11.71	12.00	12.08	-	489.41	484.79	517.20	503.74	-
Boat building and repairing .....	3732	9.01	9.13	9.35	9.32	-	347.79	356.07	365.59	352.30	-
Railroad equipment .....	374	13.41	13.37	13.73	13.67	-	555.17	542.82	582.15	568.67	-
Guided missiles, space vehicles, and parts .....	376	14.39	14.13	14.83	14.81	-	611.58	611.83	648.07	632.39	-
Guided missiles and space vehicles .....	3761	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Misc. transportation equipment .....	379	\$10.85	\$10.79	\$11.21	\$11.12	-	\$430.75	\$420.81	\$459.61	\$427.01	-
Travel trailers and campers .....	3792	9.27	9.27	9.22	9.29	-	355.04	343.92	351.28	348.38	-
Instruments and related products .....	38	11.32	11.09	11.62	11.67	\$11.68	465.25	454.69	488.04	478.47	\$480.05
Search and navigation equipment .....	381	14.64	14.16	15.17	15.18	-	598.78	580.56	643.21	628.45	-
Measuring and controlling devices .....	382	10.70	10.49	10.98	11.03	-	442.98	436.38	467.75	451.13	-
Environmental controls .....	3822	9.40	9.28	9.68	9.70	-	381.64	383.26	403.66	388.00	-
Process control instruments .....	3823	10.40	9.94	10.85	10.81	-	442.00	427.42	474.15	449.70	-
Instruments to measure electricity .....	3825	10.83	10.58	11.08	11.19	-	442.95	427.43	472.01	453.20	-
Medical instruments and supplies .....	384	9.84	9.61	10.18	10.19	-	403.44	391.13	427.56	415.75	-
Surgical and medical instruments .....	3841	9.88	9.55	10.23	10.32	-	403.10	387.73	424.55	413.83	-
Surgical appliances and supplies .....	3842	9.57	9.40	9.90	9.87	-	390.46	382.58	416.79	404.67	-
Ophthalmic goods .....	385	8.21	8.02	8.43	8.34	-	323.47	320.00	322.87	328.60	-
Photographic equipment and supplies .....	386	14.12	13.83	14.23	14.31	-	590.22	562.88	594.81	609.61	-
Watches, clocks, watchcases, and parts .....	387	7.70	7.74	7.82	7.79	-	301.84	292.57	311.24	294.46	-
Miscellaneous manufacturing industries .....	39	8.62	8.57	8.81	8.81	8.73	340.49	336.80	350.64	342.71	339.60
Jewelry, silverware, and plated ware .....	391	9.25	9.19	9.41	9.26	-	355.20	340.03	373.58	342.62	-
Jewelry, precious metal .....	3911	9.21	9.15	9.35	9.22	-	349.98	334.89	368.39	336.53	-
Musical instruments .....	393	8.64	8.53	8.83	8.77	-	343.87	332.67	354.97	341.15	-
Toys and sporting goods .....	394	7.98	7.94	8.16	8.32	-	316.81	315.22	325.58	331.97	-
Dolls, games, toys, and children's vehicles .....	3942,4	7.81	7.88	7.99	8.32	-	304.59	299.44	310.81	328.64	-
Sporting and athletic goods, nec .....	3949	8.09	7.98	8.27	8.32	-	325.22	325.58	335.76	333.63	-
Pens, pencils, office, and art supplies .....	395	8.88	8.78	9.07	9.14	-	358.75	357.35	368.24	363.77	-
Costume jewelry and notions .....	396	7.37	7.29	7.51	7.33	-	293.33	285.04	295.89	278.54	-
Costume jewelry .....	3961	6.57	6.41	6.63	6.41	-	265.43	251.27	259.23	241.02	-
Miscellaneous manufactures .....	399	9.17	9.14	9.34	9.34	-	360.38	361.03	371.73	363.33	-
Signs and advertising specialties .....	3993	9.88	9.71	10.23	10.16	-	394.21	390.34	412.27	397.26	-
<b>Nondurable goods</b>											
Food and kindred products .....	20	9.63	9.53	9.83	9.80	9.76	392.90	384.06	407.95	394.94	385.52
Meat products .....	201	7.94	7.81	8.04	8.02	-	318.39	312.40	326.42	323.21	-
Meat packing plants .....	2011	8.73	8.60	8.88	8.86	-	359.68	345.72	374.74	373.89	-
Sausages and other prepared meats .....	2013	9.34	9.26	9.40	9.36	-	386.68	373.18	400.44	385.63	-
Poultry slaughtering and processing .....	2015	6.84	6.72	6.89	6.90	-	265.39	266.78	268.02	267.03	-
Dairy products .....	202	10.54	10.44	10.71	10.72	-	433.19	422.82	443.39	435.23	-
Cheese, natural and processed .....	2022	9.68	9.59	9.72	9.69	-	382.36	369.22	392.69	375.97	-
Fluid milk .....	2026	11.01	10.86	11.21	11.20	-	460.22	450.69	468.58	459.20	-
Preserved fruits and vegetables .....	203	8.95	9.09	9.33	9.42	-	365.16	368.15	389.06	375.86	-
Canned specialties .....	2032	11.51	11.03	12.48	12.38	-	499.53	493.04	565.34	548.43	-
Canned fruits and vegetables .....	2033	9.02	9.34	9.34	9.54	-	368.92	370.80	394.15	375.88	-
Frozen fruits and vegetables .....	2037	8.08	8.10	8.46	8.64	-	319.97	321.57	329.09	322.27	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
<b>Food and kindred products—Continued</b>											
Grain mill products .....	204	44.9	44.6	46.3	45.3	-	6.2	6.0	7.1	7.0	-
Flour and other grain mill products .....	2041	48.2	45.4	49.2	47.5	-	7.2	5.9	7.7	7.5	-
Prepared feeds; nec .....	2048	42.1	42.7	43.2	43.3	-	5.2	5.6	5.9	6.0	-
Bakery products .....	205	39.6	39.3	39.8	38.4	-	4.1	3.6	4.3	3.5	-
Bread, cake, and related products .....	2051	39.3	38.8	39.0	38.0	-	4.3	3.7	4.1	3.5	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	40.1	40.4	41.4	39.1	-	3.6	3.5	4.7	3.6	-
Sugar and confectionery products .....	206	41.0	41.0	41.9	40.2	-	3.9	4.0	4.5	3.5	-
Raw cane sugar .....	2061	45.1	48.3	51.5	49.1	-	7.3	10.5	12.2	10.1	-
Cane sugar refining .....	2062	48.0	47.6	50.2	46.0	-	9.9	10.3	9.8	8.0	-
Beet sugar .....	2063	39.8	40.7	41.5	41.5	-	3.6	3.7	3.3	3.3	-
Candy and other confectionery products .....	2064	39.7	39.1	39.8	38.0	-	3.1	2.8	3.7	2.5	-
Fats and oils .....	207	44.2	43.9	46.1	45.2	-	6.0	5.6	7.2	6.5	-
Beverages .....	208	41.8	40.6	42.6	40.6	-	4.7	3.7	4.8	4.0	-
Malt beverages .....	2082	43.6	42.7	44.4	42.3	-	7.0	6.3	6.5	6.1	-
Bottled and canned soft drinks .....	2086	41.1	39.4	41.6	40.0	-	4.0	2.7	4.3	3.3	-
Misc. food and kindred products .....	209	39.6	37.7	40.3	38.1	-	4.6	4.1	4.7	3.9	-
Tobacco products .....	21	39.2	37.6	39.9	39.1	37.5	2.3	2.2	3.2	3.1	-
Cigarettes .....	211	39.5	38.1	40.3	39.4	-	2.5	2.4	3.6	3.4	-
Textile mill products .....	22	40.0	40.1	39.7	39.2	38.7	3.6	3.6	3.6	3.1	-
Broadwoven fabric mills, cotton .....	221	40.1	40.6	39.5	39.3	-	4.2	4.4	3.7	4.1	-
Broadwoven fabric mills, synthetics .....	222	40.8	41.0	40.3	39.6	-	3.8	3.9	3.6	3.1	-
Broadwoven fabric mills, wool .....	223	40.1	40.6	40.6	38.3	-	3.1	2.8	3.5	2.1	-
Narrow fabric mills .....	224	40.3	40.5	39.8	38.8	-	2.7	3.0	2.5	2.1	-
Knitting mills .....	225	38.3	38.2	37.2	37.4	-	2.8	2.8	2.7	2.3	-
Women's hosiery, except socks .....	2251	38.0	38.3	39.6	39.0	-	2.7	3.6	3.2	2.9	-
Hosiery, nec .....	2252	37.5	37.4	37.3	38.1	-	2.0	2.0	1.9	2.1	-
Knit outerwear mills .....	2253	37.6	37.7	34.8	35.1	-	3.1	2.8	2.7	1.9	-
Knit underwear mills .....	2254	37.7	37.9	34.6	35.6	-	1.8	1.9	2.0	1.4	-
Weft knit fabric mills .....	2257	39.7	39.9	38.6	38.5	-	3.5	3.3	3.1	2.5	-
Textile finishing, except wool .....	226	41.7	40.6	43.6	41.7	-	4.8	4.3	6.3	4.8	-
Finishing plants, cotton .....	2261	41.8	41.5	43.2	41.9	-	4.7	4.6	5.9	4.5	-
Finishing plants, synthetics .....	2262	42.0	40.3	44.4	42.3	-	5.2	4.3	7.0	5.4	-
Carpets and rugs .....	227	42.5	42.7	44.0	41.9	-	4.5	4.8	5.4	4.0	-
Yarn and thread mills .....	228	39.4	39.9	38.5	38.2	-	3.3	3.4	2.9	2.8	-
Yarn spinning mills .....	2281	39.9	40.2	39.0	38.8	-	3.6	3.7	3.0	2.9	-
Throwing and winding mills .....	2282	36.5	37.5	34.7	33.8	-	2.2	2.4	2.3	2.5	-
Miscellaneous textile goods .....	229	41.2	41.2	41.9	41.7	-	3.7	3.6	3.8	3.3	-
Apparel and other textile products .....	23	36.4	36.3	36.9	36.0	36.3	1.6	1.5	1.8	1.4	-
Men's and boys' suits and coats .....	231	35.7	35.8	37.4	36.4	-	.8	.7	1.2	1.1	-
Men's and boys' furnishings .....	232	36.2	36.6	36.2	35.9	-	1.2	1.3	1.5	1.4	-
Men's and boys' shirts .....	2321	36.1	36.6	36.7	35.4	-	1.1	1.3	1.4	1.2	-
Men's and boys' trousers and slacks .....	2325	35.4	35.9	36.3	36.1	-	1.2	1.3	1.6	1.7	-
Men's and boys' work clothing .....	2326	36.8	36.5	37.2	36.4	-	1.1	1.2	1.2	.9	-
Women's and misses' outerwear .....	233	35.0	35.2	35.7	34.9	-	1.5	1.6	1.7	1.4	-
Women's and misses' blouses and shirts .....	2331	35.3	34.9	35.2	35.1	-	1.0	1.0	1.0	.8	-
Women's, juniors', and misses' dresses .....	2335	33.7	33.9	34.7	33.4	-	1.3	1.4	1.4	1.3	-
Women's and misses' suits and coats .....	2337	35.3	36.2	35.4	35.0	-	1.8	1.9	2.0	1.6	-
Women's and misses' outerwear, nec .....	2339	35.5	35.6	36.3	35.5	-	1.6	1.7	1.9	1.5	-
Women's and children's undergarments .....	234	37.4	36.4	38.2	36.9	-	1.4	1.3	1.8	1.1	-
Women's and children's underwear .....	2341	37.9	36.8	38.7	37.3	-	1.5	1.1	1.8	1.2	-
Brassieres, girdles, and allied garments .....	2342	35.1	34.6	35.8	35.1	-	1.3	2.0	1.5	.8	-
Girls' and children's outerwear .....	236	36.5	37.3	37.6	36.9	-	1.6	2.4	2.1	1.8	-
Girls' and children's dresses and blouses .....	2361	36.1	36.3	37.0	35.7	-	1.9	2.5	2.4	2.0	-
Misc. apparel and accessories .....	238	37.0	37.1	37.2	36.0	-	1.3	1.4	1.3	1.2	-
Misc. fabricated textile products .....	239	38.6	37.5	39.0	37.3	-	2.5	1.9	2.6	1.7	-
Curtains and draperies .....	2391	36.3	35.2	38.1	35.1	-	1.7	1.5	2.9	.6	-
House furnishings, nec .....	2392	38.7	38.5	39.5	37.3	-	2.5	2.3	3.0	1.7	-
Automotive and apparel trimmings .....	2396	40.2	37.8	39.4	38.3	-	3.3	1.7	2.4	2.0	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Grain mill products .....	204	\$11.58	\$11.41	\$11.98	\$11.72	-	\$519.94	\$508.89	\$554.67	\$530.92	-
Flour and other grain mill products .....	2041	10.68	10.47	10.82	10.56	-	514.78	475.34	532.34	501.60	-
Prepared feeds, nec .....	2048	9.07	8.92	9.40	9.35	-	381.85	380.88	406.08	404.86	-
Bakery products .....	205	10.85	10.65	11.07	11.05	-	429.66	418.55	440.59	424.32	-
Bread, cake, and related products .....	2051	10.86	10.65	11.02	10.97	-	426.80	413.22	429.78	416.86	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	10.81	10.64	11.15	11.20	-	433.48	429.86	461.61	437.92	-
Sugar and confectionery products .....	206	10.23	10.01	10.22	10.30	-	419.43	410.41	428.22	414.06	-
Raw cane sugar .....	2061	10.16	10.54	9.95	10.23	-	458.22	509.08	512.43	502.29	-
Cane sugar refining .....	2062	14.31	14.32	14.54	14.43	-	686.88	681.63	729.91	663.78	-
Beet sugar .....	2063	10.58	9.95	10.12	10.09	-	421.08	404.97	419.98	418.74	-
Candy and other confectionery products .....	2064	9.10	8.72	9.31	9.21	-	361.27	340.95	370.54	349.98	-
Fats and oils .....	207	10.12	9.80	10.38	10.20	-	447.30	430.22	478.52	461.04	-
Beverages .....	208	13.53	13.29	13.72	13.62	-	565.55	539.57	584.47	552.97	-
Malt beverages .....	2082	18.65	18.21	18.57	18.72	-	813.14	777.57	824.51	791.86	-
Bottled and canned soft drinks .....	2086	10.81	10.60	11.19	11.05	-	444.29	417.64	465.50	442.00	-
Misc. food and kindred products .....	209	9.01	8.92	9.15	9.18	-	356.80	336.28	368.75	349.76	-
Tobacco products .....	21	16.46	15.49	16.18	16.14	\$16.26	645.23	582.42	645.58	631.07	\$609.75
Cigarettes .....	211	19.57	19.38	20.37	20.26	-	773.02	738.38	820.91	798.24	-
Textile mill products .....	22	8.01	7.90	8.16	8.17	8.14	320.40	316.79	323.95	320.26	315.02
Broadwoven fabric mills, cotton .....	221	8.31	8.24	8.38	8.42	-	333.23	334.54	331.01	330.91	-
Broadwoven fabric mills, synthetics .....	222	8.63	8.49	8.78	8.76	-	352.10	348.09	353.83	346.90	-
Broadwoven fabric mills, wool .....	223	8.61	8.52	8.64	8.62	-	345.26	345.91	350.78	330.15	-
Narrow fabric mills .....	224	7.39	7.27	7.62	7.65	-	297.82	294.44	303.28	296.82	-
Knitting mills .....	225	7.36	7.24	7.43	7.53	-	281.89	276.57	276.40	281.62	-
Women's hosiery, except socks .....	2251	6.89	6.92	7.03	7.16	-	261.82	265.04	278.39	279.24	-
Hosiery, nec .....	2252	7.01	6.81	7.11	7.26	-	262.88	254.69	265.20	276.61	-
Knit outerwear mills .....	2253	7.26	7.13	7.28	7.41	-	272.98	268.80	253.34	260.09	-
Knit underwear mills .....	2254	7.36	7.29	7.37	7.49	-	277.47	276.29	255.00	266.64	-
Weft knit fabric mills .....	2257	8.02	7.88	8.10	8.11	-	318.39	314.41	312.66	312.24	-
Textile finishing, except wool .....	226	8.45	8.36	8.68	8.69	-	352.37	339.42	378.45	362.37	-
Finishing plants, cotton .....	2261	8.37	8.24	8.60	8.57	-	349.87	341.96	371.52	359.08	-
Finishing plants, synthetics .....	2262	8.81	8.75	9.08	9.10	-	370.02	352.63	403.15	384.93	-
Carpets and rugs .....	227	8.24	8.15	8.39	8.29	-	350.20	348.01	369.16	347.35	-
Yarn and thread mills .....	228	7.69	7.58	7.77	7.80	-	302.99	302.44	299.15	297.96	-
Yarn spinning mills .....	2281	7.69	7.58	7.77	7.77	-	306.83	304.72	303.03	301.48	-
Throwing and winding mills .....	2282	7.86	7.63	8.01	8.15	-	286.89	286.13	277.95	275.47	-
Miscellaneous textile goods .....	229	9.07	8.80	9.39	9.32	-	373.68	362.56	393.44	388.64	-
Apparel and other textile products .....	23	6.59	6.40	6.67	6.65	6.63	239.88	232.32	246.12	239.40	240.67
Men's and boys' suits and coats .....	231	7.37	7.33	7.40	7.37	-	263.11	262.41	276.76	268.27	-
Men's and boys' furnishings .....	232	6.05	5.95	6.11	6.19	-	219.01	217.77	221.18	222.22	-
Men's and boys' shirts .....	2321	5.96	5.92	6.02	6.10	-	215.16	216.67	220.93	215.94	-
Men's and boys' trousers and slacks .....	2325	5.95	5.80	6.05	6.09	-	210.63	208.22	219.62	219.85	-
Men's and boys' work clothing .....	2326	5.87	5.75	5.94	6.01	-	216.02	209.88	220.97	218.76	-
Women's and misses' outerwear .....	233	6.28	6.16	6.42	6.44	-	219.80	216.83	229.19	224.76	-
Women's and misses' blouses and shirts .....	2331	5.56	5.45	5.62	5.70	-	196.27	190.21	197.82	200.07	-
Women's, juniors', and misses' dresses .....	2335	6.68	6.42	6.88	6.86	-	225.12	217.64	238.74	229.12	-
Women's and misses' suits and coats .....	2337	6.99	6.85	7.18	7.04	-	246.75	247.97	254.17	246.40	-
Women's and misses' outerwear, nec .....	2339	6.14	6.08	6.27	6.33	-	217.97	216.45	227.60	224.72	-
Women's and children's undergarments .....	234	6.19	6.14	6.19	6.33	-	231.51	223.50	236.46	233.58	-
Women's and children's underwear .....	2341	6.05	5.95	6.04	6.18	-	229.30	218.96	233.75	230.51	-
Brassieres, girdles, and allied garments .....	2342	6.98	7.09	7.00	7.15	-	245.00	245.31	250.60	250.97	-
Girls' and children's outerwear .....	236	5.95	5.92	6.11	6.11	-	217.18	220.82	229.74	225.46	-
Girls' and children's dresses and blouses .....	2361	5.85	5.86	6.00	5.87	-	211.19	212.72	222.00	209.56	-
Misc. apparel and accessories .....	238	6.41	6.39	6.41	6.57	-	237.17	237.07	238.45	236.52	-
Misc. fabricated textile products .....	239	7.87	7.40	7.91	7.71	-	303.78	277.50	308.49	287.58	-
Curtains and draperies .....	2391	6.55	6.49	6.72	6.65	-	237.77	228.45	256.03	233.42	-
House furnishings, nec .....	2392	6.69	6.57	6.89	6.89	-	258.90	252.95	272.16	257.00	-
Automotive and apparel trimmings .....	2396	11.24	10.25	11.06	10.38	-	451.85	387.45	435.76	397.55	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products .....	26	43.3	43.4	44.2	43.1	42.5	4.8	4.6	5.0	4.6	-
Paper mills .....	262	45.2	44.8	46.1	45.2	-	5.3	4.4	5.6	5.3	-
Paperboard mills .....	263	45.6	45.8	46.2	45.3	-	7.3	7.1	7.6	6.8	-
Paperboard containers and boxes .....	265	42.5	42.6	43.4	42.2	-	4.5	4.3	4.6	4.2	-
Corrugated and solid fiber boxes .....	2653	43.0	43.2	43.4	42.7	-	4.9	4.5	5.0	4.4	-
Sanitary food containers .....	2656	43.9	42.3	46.4	43.0	-	4.3	3.8	4.9	4.8	-
Folding paperboard boxes .....	2657	42.0	42.3	43.3	41.9	-	4.4	4.5	4.6	4.3	-
Misc. converted paper products .....	267	42.0	42.5	42.9	41.9	-	4.0	4.2	4.3	3.8	-
Paper, coated and laminated, nec .....	2672	43.1	44.1	42.0	42.7	-	3.9	4.4	3.4	3.2	-
Bags: plastics, laminated, and coated .....	2673	41.7	42.1	43.2	41.4	-	4.8	4.7	5.2	4.2	-
Envelopes .....	2677	41.8	43.0	43.4	41.2	-	3.6	4.4	4.2	3.4	-
Printing and publishing .....	27	37.9	37.6	38.4	37.3	37.3	3.0	2.8	3.2	2.5	-
Newspapers .....	271	33.0	32.6	33.2	32.3	-	1.3	1.0	1.3	.8	-
Periodicals .....	272	38.1	38.2	38.4	37.9	-	3.2	3.2	3.1	2.8	-
Books .....	273	38.7	37.8	39.6	38.3	-	3.0	2.3	3.6	2.8	-
Book publishing .....	2731	38.9	38.7	39.6	39.1	-	2.4	2.3	2.7	2.4	-
Book printing .....	2732	38.5	36.6	39.5	37.3	-	3.8	2.3	4.6	3.3	-
Miscellaneous publishing .....	274	36.6	36.3	36.7	36.0	-	1.9	1.5	2.0	1.6	-
Commercial printing .....	275	39.4	38.9	39.8	38.7	-	3.5	3.4	3.7	3.0	-
Commercial printing, lithographic .....	2752	39.1	38.7	39.8	38.6	-	3.6	3.4	3.8	3.1	-
Commercial printing, nec .....	2759	39.7	39.0	39.7	38.7	-	3.3	3.2	3.5	2.7	-
Manifold business forms .....	276	41.7	42.4	43.7	41.5	-	3.5	4.2	5.0	3.3	-
Blankbooks and bookbinding .....	278	37.7	37.7	38.5	37.6	-	2.6	2.8	2.6	2.1	-
Printing trade services .....	279	39.4	39.4	39.6	38.4	-	4.2	4.0	4.4	3.4	-
Chemicals and allied products .....	28	42.6	42.7	43.4	42.4	42.3	4.4	4.4	4.5	4.2	-
Industrial inorganic chemicals .....	281	42.9	42.4	44.4	43.9	-	4.4	3.8	4.6	4.4	-
Industrial inorganic chemicals, nec .....	2819	42.6	42.1	44.2	44.1	-	4.3	3.7	4.4	4.4	-
Plastics materials and synthetics .....	282	42.5	42.4	42.6	42.4	-	4.9	4.9	4.7	4.6	-
Plastics materials and resins .....	2821	44.0	44.2	44.1	43.3	-	5.6	5.5	5.5	5.1	-
Organic fibers, noncellulosic .....	2824	41.0	40.6	41.5	41.6	-	4.1	4.3	4.0	4.2	-
Drugs .....	283	41.8	42.5	43.3	41.7	-	3.8	4.4	4.5	4.4	-
Pharmaceutical preparations .....	2834	41.8	42.5	43.5	41.8	-	3.8	4.4	4.5	4.5	-
Soap, cleaners, and toilet goods .....	284	40.8	41.1	42.2	39.8	-	3.0	3.1	3.3	2.8	-
Soap and other detergents .....	2841	42.3	42.7	43.9	41.1	-	4.5	4.3	4.7	4.4	-
Polishing, sanitation, and finishing preparations .....	2842,3	41.3	42.1	41.5	41.0	-	3.0	3.2	2.9	3.4	-
Toilet preparations .....	2844	39.6	39.7	41.4	38.3	-	2.1	2.3	2.5	1.3	-
Paints and allied products .....	285	41.9	41.6	41.9	41.3	-	3.6	3.3	2.8	2.8	-
Industrial organic chemicals .....	286	45.2	45.7	45.8	45.0	-	5.8	6.3	5.9	5.3	-
Cyclic crudes and intermediates .....	2865	44.3	45.3	44.5	43.6	-	5.6	6.0	5.0	4.4	-
Industrial organic chemicals, nec .....	2869	45.5	45.9	46.4	45.6	-	5.9	6.5	6.3	5.6	-
Agricultural chemicals .....	287	44.1	44.1	44.3	44.8	-	5.3	5.0	5.4	5.5	-
Miscellaneous chemical products .....	289	42.4	42.6	43.4	41.9	-	4.1	3.9	4.4	4.1	-
Petroleum and coal products .....	29	44.6	44.0	43.9	42.9	44.4	6.1	5.8	5.9	5.2	-
Petroleum refining .....	291	44.7	44.2	44.7	43.8	-	5.7	5.7	6.1	5.6	-
Asphalt paving and roofing materials .....	295	45.5	44.8	41.7	40.0	-	8.3	7.1	5.8	4.4	-
Rubber and misc. plastics products .....	30	41.1	40.8	41.5	40.9	40.5	3.6	3.4	3.6	3.3	-
Tires and inner tubes .....	301	43.0	43.5	42.2	43.9	-	4.9	5.2	4.5	5.0	-
Rubber and plastics footwear .....	302	41.8	44.4	43.3	42.0	-	2.9	3.3	3.4	2.7	-
Hose, belting, gaskets, and packing .....	305	42.3	41.8	42.5	42.0	-	3.6	3.0	3.6	2.9	-
Rubber and plastics hose and belting .....	3052	42.5	43.6	41.6	41.8	-	3.8	3.9	3.1	2.8	-
Fabricated rubber products, nec .....	306	40.8	40.2	40.9	39.9	-	3.0	2.7	2.7	2.3	-
Miscellaneous plastics products, nec .....	308	40.8	40.4	41.4	40.5	-	3.5	3.3	3.6	3.3	-
Leather and leather products .....	31	37.4	37.2	37.8	36.7	36.5	1.8	1.9	2.0	1.5	-
Leather tanning and finishing .....	311	41.7	41.9	43.0	41.3	-	4.1	4.4	5.2	4.1	-
Footwear, except rubber .....	314	36.4	36.5	36.2	35.4	-	1.3	1.5	1.3	.9	-
Men's footwear, except athletic .....	3143	36.4	36.7	36.7	35.8	-	1.0	.9	1.1	.9	-
Women's footwear, except athletic .....	3144	36.3	36.1	35.3	34.8	-	1.4	1.9	1.2	.7	-
Luggage .....	316	39.7	37.5	42.2	41.1	-	2.5	1.9	2.9	2.3	-
Handbags and personal leather goods .....	317	36.9	35.4	37.5	35.1	-	2.0	2.1	1.7	.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 hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products .....	26	\$12.30	\$12.11	\$12.54	\$12.51	\$12.53	\$532.59	\$525.57	\$554.27	\$539.18	\$532.53
Paper mills .....	262	15.10	14.72	15.33	15.20	-	682.52	659.46	706.71	687.04	-
Paperboard mills .....	263	15.26	14.98	15.69	15.57	-	695.86	686.08	724.88	705.32	-
Paperboard containers and boxes .....	265	10.38	10.27	10.55	10.55	-	441.15	437.50	457.87	445.21	-
Corrugated and solid fiber boxes .....	2653	10.50	10.36	10.63	10.59	-	451.50	447.55	461.34	452.19	-
Sanitary food containers .....	2656	10.09	10.06	10.38	10.37	-	442.95	425.54	481.63	445.91	-
Folding paperboard boxes .....	2657	10.69	10.63	10.93	10.93	-	448.98	449.65	473.27	457.97	-
Misc. converted paper products .....	267	10.77	10.64	11.02	11.02	-	452.34	452.20	472.76	461.74	-
Paper, coated and laminated, nec .....	2672	12.16	12.00	12.46	12.43	-	524.10	529.20	523.32	530.76	-
Bags: plastics, laminated, and coated .....	2673	10.17	9.99	10.42	10.48	-	424.09	420.58	450.14	433.87	-
Envelopes .....	2677	10.11	9.99	10.27	10.34	-	422.60	429.57	445.72	426.01	-
Printing and publishing .....	27	11.25	11.12	11.45	11.38	11.39	426.38	418.11	439.68	424.47	424.85
Newspapers .....	271	11.24	11.08	11.33	11.44	-	370.92	361.21	376.16	369.51	-
Periodicals .....	272	11.93	11.82	11.94	11.78	-	454.53	451.52	458.50	446.46	-
Books .....	273	10.10	9.89	10.38	10.22	-	390.87	373.84	411.05	391.43	-
Book publishing .....	2731	9.87	9.56	10.27	10.09	-	383.94	369.97	406.69	392.52	-
Book printing .....	2732	10.40	10.34	10.51	10.38	-	400.40	378.44	415.15	387.17	-
Miscellaneous publishing .....	274	10.25	10.16	10.45	10.34	-	375.15	368.81	383.52	372.24	-
Commercial printing .....	275	11.53	11.39	11.72	11.66	-	454.28	443.07	466.46	451.24	-
Commercial printing, lithographic .....	2752	11.63	11.49	11.79	11.74	-	454.73	444.66	469.24	453.16	-
Commercial printing, nec .....	2759	11.27	11.16	11.54	11.46	-	447.42	435.24	458.14	443.50	-
Manifold business forms .....	276	11.71	11.57	12.25	12.14	-	488.31	490.57	535.33	503.81	-
Blankbooks and bookbinding .....	278	8.83	8.82	9.04	9.00	-	332.89	332.51	348.04	338.40	-
Printing trade services .....	279	13.77	13.64	13.96	13.70	-	542.54	537.42	552.82	526.08	-
Chemicals and allied products .....	28	13.54	13.34	13.75	13.83	13.78	576.80	569.62	596.75	586.39	582.89
Industrial inorganic chemicals .....	281	14.67	14.36	14.85	14.87	-	629.34	608.86	659.34	652.79	-
Industrial inorganic chemicals, nec .....	2819	14.83	14.46	15.16	15.19	-	631.76	608.77	670.07	669.88	-
Plastics materials and synthetics .....	282	14.02	13.68	14.39	14.41	-	595.85	580.03	613.01	610.98	-
Plastics materials and resins .....	2821	14.84	14.51	15.13	15.05	-	652.96	641.34	667.23	651.67	-
Organic fibers, noncellulosic .....	2824	13.31	13.01	13.50	13.73	-	545.71	528.21	560.25	571.17	-
Drugs .....	283	12.87	12.78	13.07	13.12	-	537.97	543.15	565.93	547.10	-
Pharmaceutical preparations .....	2834	12.85	12.80	13.01	13.09	-	537.13	544.00	565.94	547.16	-
Soap, cleaners, and toilet goods .....	284	11.76	11.60	12.07	12.18	-	479.81	476.76	509.35	484.76	-
Soap and other detergents .....	2841	15.51	15.37	15.41	15.38	-	656.07	656.30	676.50	632.12	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.36	10.14	10.55	10.71	-	427.87	426.89	437.83	439.11	-
Toilet preparations .....	2844	10.05	9.97	10.51	10.68	-	397.98	395.81	435.11	409.04	-
Paints and allied products .....	285	12.01	11.72	12.19	12.44	-	503.22	487.55	510.76	513.77	-
Industrial organic chemicals .....	286	15.97	15.76	16.05	16.02	-	721.84	720.23	735.09	720.90	-
Cyclic crudes and intermediates .....	2865	15.94	15.81	15.90	15.84	-	706.14	716.19	707.55	690.62	-
Industrial organic chemicals, nec .....	2869	16.16	15.93	16.25	16.25	-	735.28	731.19	754.00	741.00	-
Agricultural chemicals .....	287	13.58	13.43	14.02	14.00	-	598.88	592.26	621.09	627.20	-
Miscellaneous chemical products .....	289	12.30	12.15	12.42	12.53	-	521.52	517.59	539.03	525.01	-
Petroleum and coal products .....	29	16.23	15.87	16.51	16.65	17.23	723.86	698.28	724.79	714.29	765.01
Petroleum refining .....	291	17.58	17.07	17.76	17.88	-	785.83	754.49	793.87	783.14	-
Asphalt paving and roofing materials .....	295	12.82	12.16	12.85	12.30	-	583.31	544.77	535.85	492.00	-
Rubber and misc. plastics products .....	30	9.79	9.65	9.98	10.08	10.08	402.37	393.72	414.17	412.27	408.24
Tires and inner tubes .....	301	15.42	15.24	15.61	16.06	-	663.06	662.94	658.74	705.03	-
Rubber and plastics footwear .....	302	6.66	6.36	6.80	6.85	-	278.39	282.38	294.44	287.70	-
Hose, belting, gaskets, and packing .....	305	9.68	9.46	9.85	9.83	-	409.46	395.43	418.63	412.86	-
Rubber and plastics hose and belting .....	3052	9.92	9.72	9.89	10.03	-	421.60	423.79	411.42	419.25	-
Fabricated rubber products, nec .....	306	9.35	9.17	9.47	9.57	-	381.48	368.63	387.32	381.84	-
Miscellaneous plastics products, nec .....	308	9.17	9.02	9.37	9.37	-	374.14	364.41	387.92	379.49	-
Leather and leather products .....	31	6.91	6.82	7.09	7.10	7.12	258.43	253.70	268.00	260.57	259.88
Leather tanning and finishing .....	311	9.04	8.87	9.40	9.39	-	376.97	371.65	404.20	387.81	-
Footwear, except rubber .....	314	6.60	6.52	6.75	6.78	-	240.24	237.98	244.35	240.01	-
Men's footwear, except athletic .....	3143	7.13	6.98	7.27	7.29	-	259.53	256.17	266.81	260.98	-
Women's footwear, except athletic .....	3144	6.13	6.10	6.29	6.32	-	222.52	220.21	222.04	219.94	-
Luggage .....	316	6.91	6.81	6.97	6.97	-	274.33	255.38	294.13	286.47	-
Handbags and personal leather goods .....	317	6.08	5.95	6.21	6.13	-	224.35	210.63	232.88	215.16	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Transportation and public utilities</b> .....		38.9	37.8	39.0	38.2	38.2	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>2</sup> .....	4011	45.2	41.5	45.3	45.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	33.1	32.9	33.0	32.1	-	-	-	-	-	
Local and suburban transportation .....	411	38.2	38.3	38.1	37.8	-	-	-	-	-	
Intercity and rural bus transportation .....	413	38.5	39.1	38.2	36.2	-	-	-	-	-	
Trucking and warehousing .....	42	38.5	37.4	38.7	37.0	-	-	-	-	-	
Trucking and courier services, except air .....	421	38.4	37.3	38.6	36.8	-	-	-	-	-	
Public warehousing and storage .....	422	39.4	39.0	39.9	39.0	-	-	-	-	-	
Pipelines, except natural gas .....	46	41.7	41.6	42.1	40.3	-	-	-	-	-	
Transportation services:											
Freight transportation arrangement .....	473	37.6	36.9	38.4	37.5	-	-	-	-	-	
Communications .....	48	39.3	39.3	39.0	39.1	-	-	-	-	-	
Telephone communications .....	481	40.9	40.8	40.5	40.8	-	-	-	-	-	
Radio and television broadcasting .....	483	34.7	35.0	34.8	34.2	-	-	-	-	-	
Cable and other pay television services .....	484	38.2	37.9	38.0	38.2	-	-	-	-	-	
Electric, gas, and sanitary services .....	49	41.7	41.5	41.6	41.4	-	-	-	-	-	
Electric services .....	491	41.7	41.2	41.6	41.5	-	-	-	-	-	
Gas production and distribution .....	492	42.2	42.5	43.0	42.9	-	-	-	-	-	
Combination utility services .....	493	41.4	42.0	40.5	40.3	-	-	-	-	-	
Sanitary services .....	495	41.8	41.2	42.2	41.6	-	-	-	-	-	
<b>Wholesale trade</b> .....		38.1	37.8	38.4	37.7	37.8	-	-	-	-	
Durable goods .....	50	38.6	38.3	38.9	38.3	-	-	-	-	-	
Motor vehicles, parts, and supplies .....	501	38.0	37.9	38.1	37.7	-	-	-	-	-	
Furniture and home furnishings .....	502	37.1	36.5	37.6	36.4	-	-	-	-	-	
Lumber and other construction materials .....	503	39.6	38.7	39.6	38.4	-	-	-	-	-	
Professional and commercial equipment .....	504	38.8	38.5	39.4	38.9	-	-	-	-	-	
Metals and minerals, except petroleum .....	505	40.1	39.9	40.7	39.7	-	-	-	-	-	
Electrical goods .....	506	38.6	38.4	38.9	38.6	-	-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	38.7	38.6	39.0	38.4	-	-	-	-	-	
Machinery, equipment, and supplies .....	508	38.9	38.8	39.1	38.5	-	-	-	-	-	
Misc. wholesale trade durable goods .....	509	37.1	36.5	37.5	36.7	-	-	-	-	-	
Nondurable goods .....	51	37.4	37.0	37.7	36.9	-	-	-	-	-	
Paper and paper products .....	511	37.5	37.1	38.1	37.0	-	-	-	-	-	
Drugs, proprietaries, and sundries .....	512	37.2	37.6	37.6	37.2	-	-	-	-	-	
Apparel, piece goods, and notions .....	513	36.6	35.9	36.9	36.1	-	-	-	-	-	
Groceries and related products .....	514	37.9	37.5	38.4	37.6	-	-	-	-	-	
Chemicals and allied products .....	516	40.0	40.2	40.6	40.1	-	-	-	-	-	
Petroleum and petroleum products .....	517	38.2	38.1	38.3	38.1	-	-	-	-	-	
Beer, wine, and distilled beverages .....	518	36.5	35.6	36.8	35.8	-	-	-	-	-	
Misc. wholesale trade nondurable goods .....	519	36.6	36.2	36.5	35.8	-	-	-	-	-	
<b>Retail trade</b> .....		28.8	28.1	29.3	27.7	28.1	-	-	-	-	
Building materials and garden supplies .....	52	36.1	35.5	35.7	34.7	-	-	-	-	-	
Lumber and other building materials .....	521	37.9	37.2	37.4	36.5	-	-	-	-	-	
Hardware stores .....	525	32.2	31.6	32.5	31.4	-	-	-	-	-	
General merchandise stores .....	53	28.3	26.9	31.0	26.7	-	-	-	-	-	
Department stores .....	531	28.1	26.7	30.9	26.5	-	-	-	-	-	
Variety stores .....	533	28.8	27.9	32.5	27.8	-	-	-	-	-	
Misc. general merchandise stores .....	539	28.9	27.5	30.7	27.4	-	-	-	-	-	

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Transportation and public utilities</b> .....		\$12.95	\$12.79	\$13.13	\$13.19	\$13.16	\$503.76	\$483.46	\$512.07	\$503.86	\$502.71
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	16.08	16.20	15.99	15.92	-	726.82	672.30	724.35	716.40	-
Local and interurban passenger transit .....	41	9.06	9.07	9.14	9.23	-	299.89	298.40	301.62	296.28	-
Local and suburban transportation .....	411	9.86	9.85	9.96	10.08	-	376.65	377.26	379.48	381.02	-
Intercity and rural bus transportation .....	413	11.33	11.71	11.55	11.55	-	436.21	457.86	441.21	418.11	-
Trucking and warehousing .....	42	11.73	11.59	11.85	11.77	-	451.61	433.47	458.60	435.49	-
Trucking and courier services, except air .....	421	11.88	11.75	12.00	11.91	-	456.19	438.28	463.20	438.29	-
Public warehousing and storage .....	422	9.58	9.44	9.79	9.82	-	377.45	368.16	390.62	382.98	-
Pipelines, except natural gas .....	46	17.04	16.69	17.72	17.38	-	710.57	694.30	746.01	700.41	-
Transportation services:											
Freight transportation arrangement .....	473	12.16	11.75	12.50	12.43	-	457.22	433.58	480.00	466.13	-
Communications .....	48	13.49	13.37	13.69	13.82	-	530.16	525.44	533.91	540.36	-
Telephone communications .....	481	14.15	13.98	14.29	14.44	-	578.74	570.38	578.75	589.15	-
Radio and television broadcasting .....	483	12.64	12.62	13.15	13.16	-	438.61	441.70	457.62	450.07	-
Cable and other pay television services .....	484	10.50	10.41	10.61	10.80	-	401.10	394.54	403.18	412.56	-
Electric, gas, and sanitary services .....	49	15.27	14.99	15.74	15.70	-	636.76	622.09	654.78	649.98	-
Electric services .....	491	15.83	15.50	16.16	16.15	-	660.11	638.60	672.26	670.23	-
Gas production and distribution .....	492	14.28	14.15	14.85	14.66	-	602.62	601.38	638.55	628.91	-
Combination utility services .....	493	17.62	17.03	18.77	18.65	-	729.47	715.26	760.19	751.60	-
Sanitary services .....	495	11.55	11.51	11.61	11.81	-	482.79	474.21	489.94	491.30	-
<b>Wholesale trade</b> .....		10.80	10.61	11.05	11.06	11.09	411.48	401.06	424.32	416.96	419.20
Durable goods .....	50	11.15	10.92	11.43	11.46	-	430.39	418.24	444.63	438.92	-
Motor vehicles, parts, and supplies .....	501	10.00	9.89	10.30	10.23	-	380.00	374.83	392.43	385.67	-
Furniture and home furnishings .....	502	10.17	9.96	10.35	10.37	-	377.31	363.54	389.16	377.47	-
Lumber and other construction materials .....	503	10.48	10.26	10.77	10.64	-	415.01	397.06	426.49	408.58	-
Professional and commercial equipment .....	504	13.07	12.62	13.53	13.59	-	507.12	485.87	533.08	528.65	-
Metals and minerals, except petroleum .....	505	11.30	11.18	11.54	11.50	-	453.13	446.08	469.68	456.55	-
Electrical goods .....	506	11.43	11.26	11.65	11.83	-	441.20	432.38	453.19	456.64	-
Hardware, plumbing, and heating equipment .....	507	10.54	10.23	10.84	10.69	-	407.90	394.88	422.76	410.50	-
Machinery, equipment, and supplies .....	508	11.14	10.99	11.33	11.36	-	433.35	426.41	443.00	437.36	-
Misc. wholesale trade durable goods .....	509	8.80	8.60	8.96	8.96	-	326.48	313.90	336.00	328.83	-
Nondurable goods .....	51	10.28	10.14	10.49	10.47	-	384.47	375.18	395.47	386.34	-
Paper and paper products .....	511	10.98	10.75	11.06	10.94	-	411.75	398.83	421.39	404.78	-
Drugs, proprietaries, and sundries .....	512	11.87	11.46	12.23	12.03	-	441.56	430.90	459.85	447.52	-
Apparel, piece goods, and notions .....	513	10.02	10.06	10.15	10.31	-	366.73	361.15	374.54	372.19	-
Groceries and related products .....	514	10.44	10.30	10.60	10.68	-	395.68	386.25	407.04	401.57	-
Chemicals and allied products .....	516	12.53	12.50	12.63	12.49	-	501.20	502.50	512.78	500.85	-
Petroleum and petroleum products .....	517	10.21	10.12	10.31	10.27	-	390.02	385.57	394.87	391.29	-
Beer, wine, and distilled beverages .....	518	12.06	11.76	12.68	12.43	-	440.19	418.66	466.62	444.99	-
Misc. wholesale trade nondurable goods .....	519	8.61	8.47	8.86	8.80	-	315.13	306.61	323.39	315.04	-
<b>Retail trade</b> .....		6.78	6.73	6.86	6.93	6.91	195.26	189.11	201.00	191.96	194.17
Building materials and garden supplies .....	52	7.97	7.89	8.07	8.06	-	287.72	280.10	288.10	279.68	-
Lumber and other building materials .....	521	8.32	8.23	8.43	8.35	-	315.33	306.16	315.28	304.78	-
Hardware stores .....	525	6.73	6.60	6.84	6.86	-	216.71	208.56	222.30	215.40	-
General merchandise stores .....	53	6.82	6.89	6.79	6.85	-	193.01	185.34	210.49	182.90	-
Department stores .....	531	7.00	7.11	6.96	7.00	-	196.70	189.84	215.06	185.50	-
Variety stores .....	533	5.62	5.50	5.69	5.75	-	161.86	153.45	184.93	159.85	-
Misc. general merchandise stores .....	539	6.32	6.18	6.28	6.47	-	182.65	169.95	192.80	177.28	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Food stores .....	54	29.7	28.9	29.5	28.7	-	-	-	-	-	-
Grocery stores .....	541	29.8	29.0	29.5	28.9	-	-	-	-	-	-
Retail bakeries .....	546	29.0	27.8	29.8	27.5	-	-	-	-	-	-
Automotive dealers and service stations .....	55	36.2	35.8	36.0	35.6	-	-	-	-	-	-
New and used car dealers .....	551	37.2	36.8	37.2	36.8	-	-	-	-	-	-
Auto and home supply stores .....	553	38.1	37.5	37.9	37.2	-	-	-	-	-	-
Gasoline service stations .....	554	33.9	33.7	33.7	33.5	-	-	-	-	-	-
Automotive dealers, nec .....	559	35.1	36.1	33.8	34.3	-	-	-	-	-	-
Apparel and accessory stores .....	56	27.0	25.8	27.9	25.6	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	28.3	27.6	29.3	26.8	-	-	-	-	-	-
Women's clothing stores .....	562	24.1	22.9	24.8	22.4	-	-	-	-	-	-
Family clothing stores .....	565	27.3	25.2	28.8	26.1	-	-	-	-	-	-
Shoe stores .....	566	30.5	29.0	31.2	29.7	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	32.9	32.7	33.2	32.3	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.4	33.1	33.6	32.6	-	-	-	-	-	-
Household appliance stores .....	572	33.4	33.3	34.2	32.5	-	-	-	-	-	-
Radio, television, and computer stores .....	573	31.9	31.7	32.4	31.7	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	31.7	31.6	32.8	31.9	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	26.5	26.2	26.8	25.2	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.2	24.6	25.0	23.8	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	29.6	29.0	30.5	28.7	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	27.5	26.9	28.0	27.2	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	28.4	27.5	29.6	27.1	-	-	-	-	-	-
Nonstore retailers .....	596	32.8	31.5	34.7	31.2	-	-	-	-	-	-
Fuel dealers .....	598	37.6	39.5	38.1	39.4	-	-	-	-	-	-
Retail stores, nec .....	599	31.6	30.9	32.3	29.9	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>35.8</b>	<b>35.6</b>	<b>36.2</b>	<b>35.7</b>	<b>35.8</b>	-	-	-	-	-
Depository institutions .....	60	35.6	35.3	35.9	35.5	-	-	-	-	-	-
Commercial banks .....	602	35.5	35.2	35.8	35.3	-	-	-	-	-	-
Credit unions .....	606	35.7	35.5	35.7	35.5	-	-	-	-	-	-
Nondepository institutions .....	61	37.6	36.7	37.9	36.2	-	-	-	-	-	-
Personal credit institutions .....	614	37.9	37.0	37.8	36.0	-	-	-	-	-	-
Security and commodity brokers:											
Security and commodity services .....	628	37.6	37.7	37.9	37.9	-	-	-	-	-	-
Insurance carriers .....	63	37.4	37.1	37.9	37.3	-	-	-	-	-	-
Life insurance .....	631	37.1	36.9	37.5	36.9	-	-	-	-	-	-
Medical service and health insurance .....	632	38.3	37.9	38.9	38.3	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.2	36.8	37.7	37.3	-	-	-	-	-	-
<b>Services</b> .....		<b>32.6</b>	<b>32.4</b>	<b>32.7</b>	<b>32.2</b>	<b>32.4</b>	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	30.8	29.8	30.0	29.0	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.0	33.7	34.0	33.0	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	29.4	29.0	30.4	28.6	-	-	-	-	-	-
Miscellaneous personal services .....	729	25.8	23.1	26.3	25.8	-	-	-	-	-	-
Business services .....	73	33.2	33.1	33.7	33.0	-	-	-	-	-	-
Advertising .....	731	36.7	36.7	36.7	36.1	-	-	-	-	-	-
Services to buildings .....	734	28.8	28.7	29.2	27.9	-	-	-	-	-	-
Personnel supply services:											
Help supply services .....	7363	30.8	30.5	31.5	30.9	-	-	-	-	-	-
Computer and data processing services .....	737	38.1	37.9	38.2	37.4	-	-	-	-	-	-
Miscellaneous business services .....	738	34.3	34.3	34.6	34.1	-	-	-	-	-	-

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 hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Food stores .....	54	\$7.38	\$7.31	\$7.45	\$7.53	-	\$219.19	\$211.26	\$219.78	\$216.11	-
Grocery stores .....	541	7.48	7.41	7.57	7.62	-	222.90	214.89	223.32	220.22	-
Retail bakeries .....	546	6.34	6.23	6.46	6.53	-	183.86	173.19	192.51	179.58	-
Automotive dealers and service stations .....	55	8.95	8.71	8.99	8.90	-	323.99	311.82	323.64	316.84	-
New and used car dealers .....	551	11.09	10.70	11.05	10.83	-	412.55	393.76	411.06	398.54	-
Auto and home supply stores .....	553	7.80	7.68	7.91	7.89	-	297.18	288.00	299.79	293.51	-
Gasoline service stations .....	554	6.20	6.09	6.28	6.32	-	210.18	205.23	211.64	211.72	-
Automotive dealers, nec .....	559	10.83	10.96	11.07	10.61	-	380.13	395.66	374.17	363.92	-
Apparel and accessory stores .....	56	6.28	6.18	6.39	6.51	-	169.56	159.44	178.28	166.66	-
Men's and boys' clothing stores .....	561	7.66	7.68	7.63	8.02	-	216.78	211.97	223.56	214.94	-
Women's clothing stores .....	562	6.00	5.84	6.10	6.26	-	144.60	133.74	151.28	140.22	-
Family clothing stores .....	565	6.22	6.12	6.38	6.49	-	169.81	154.22	183.74	169.39	-
Shoe stores .....	566	6.14	6.03	6.29	6.30	-	187.27	174.87	196.25	187.11	-
Furniture and home furnishings stores .....	57	8.58	8.54	8.77	8.75	-	282.28	279.26	291.16	282.63	-
Furniture and home furnishings stores .....	571	8.44	8.41	8.61	8.62	-	281.90	278.37	289.30	281.01	-
Household appliance stores .....	572	8.83	8.82	9.25	9.02	-	294.92	293.71	316.35	293.15	-
Radio, television, and computer stores .....	573	8.73	8.68	8.91	8.89	-	278.49	275.16	288.68	281.81	-
Radio, television, and electronic stores .....	5731	8.76	8.67	9.24	8.70	-	277.69	273.97	303.07	277.53	-
Record and prerecorded tape stores .....	5735	5.20	5.00	5.28	5.40	-	137.80	131.00	141.50	136.08	-
Eating and drinking places <sup>4</sup> .....	58	4.97	4.87	5.09	5.10	-	125.24	119.80	127.25	121.38	-
Miscellaneous retail establishments .....	59	7.12	7.05	7.17	7.35	-	210.75	204.45	218.69	210.95	-
Drug stores and proprietary stores .....	591	6.78	6.63	6.92	7.04	-	186.45	178.35	193.76	191.49	-
Miscellaneous shopping goods stores .....	594	6.68	6.59	6.69	6.91	-	189.71	181.23	198.02	187.26	-
Nonstore retailers .....	596	7.91	7.88	7.90	8.00	-	259.45	248.22	274.13	249.60	-
Fuel dealers .....	598	9.87	9.97	10.21	10.34	-	371.11	393.82	389.00	407.40	-
Retail stores, nec .....	599	7.39	7.28	7.40	7.54	-	233.52	224.95	239.02	225.45	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		9.99	9.80	10.25	10.27	\$10.32	357.64	348.88	371.05	366.64	\$369.46
Depository institutions .....	60	8.51	8.37	8.67	8.69	-	302.96	295.46	311.25	308.50	-
Commercial banks .....	602	8.14	8.04	8.29	8.30	-	288.97	283.01	296.78	292.99	-
Credit unions .....	606	8.12	8.03	8.31	8.39	-	289.88	285.07	296.67	297.85	-
Nondepository institutions .....	61	10.39	10.34	10.74	10.85	-	390.66	379.48	407.05	392.77	-
Personal credit institutions .....	614	9.29	9.33	9.76	9.85	-	352.09	345.21	368.93	354.60	-
Security and commodity brokers:											
Security and commodity services .....	628	13.22	13.24	13.60	13.59	-	497.07	499.15	515.44	515.06	-
Insurance carriers .....	63	11.17	10.92	11.46	11.48	-	417.76	405.13	434.33	428.20	-
Life insurance .....	631	10.36	10.17	10.55	10.56	-	384.36	375.27	395.63	389.66	-
Medical service and health insurance .....	632	10.77	10.64	11.05	10.97	-	412.49	403.26	429.85	420.15	-
Fire, marine, and casualty insurance .....	633	12.00	11.67	12.33	12.43	-	446.40	429.46	464.84	463.64	-
<b>Services</b> .....		9.86	9.72	10.14	10.16	10.18	321.44	314.93	331.58	327.15	329.83
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	6.97	6.92	7.25	7.18	-	214.68	206.22	217.50	208.22	-
Personal services:											
Laundry, cleaning, and garment services .....	721	6.83	6.71	6.93	6.94	-	232.22	226.13	235.62	229.02	-
Beauty shops <sup>4</sup> .....	723	7.10	6.87	7.17	7.00	-	208.74	199.23	217.97	200.20	-
Miscellaneous personal services .....	729	7.15	6.85	7.51	7.13	-	184.47	158.24	197.51	183.95	-
Business services .....	73	9.55	9.35	9.71	9.73	-	317.06	309.49	327.23	321.09	-
Advertising .....	731	13.54	13.19	13.95	13.65	-	496.92	484.07	511.97	492.77	-
Services to buildings .....	734	7.21	7.03	7.23	7.21	-	207.65	201.76	211.12	201.16	-
Personnel supply services:											
Help supply services .....	7363	8.08	8.03	8.18	8.27	-	248.86	244.92	257.67	255.54	-
Computer and data processing services .....	737	15.05	14.54	15.43	15.33	-	573.41	551.07	589.43	573.34	-
Miscellaneous business services .....	738	7.93	7.74	8.03	8.02	-	272.00	265.48	277.84	273.48	-

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				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Services—Continued</b>											
Detective and armored car services .....	7381	33.9	34.0	34.5	34.4	-	-	-	-	-	-
Auto repair, services, and parking .....	75	36.7	36.1	36.6	36.0	-	-	-	-	-	-
Automotive repair shops .....	753	38.3	37.9	38.2	37.7	-	-	-	-	-	-
Miscellaneous repair services .....	76	37.9	37.8	38.1	37.6	-	-	-	-	-	-
Motion pictures .....	78	27.6	27.6	28.3	28.2	-	-	-	-	-	-
Motion picture production and services .....	781	35.8	36.8	37.1	36.4	-	-	-	-	-	-
Amusement and recreation services .....	79	27.1	27.0	26.8	26.2	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	26.7	26.0	26.2	24.9	-	-	-	-	-	-
Health services .....	80	32.6	32.6	32.8	32.5	-	-	-	-	-	-
Offices and clinics of medical doctors .....	801	31.7	31.8	32.0	31.7	-	-	-	-	-	-
Offices and clinics of dentists .....	802	28.4	28.5	28.8	28.4	-	-	-	-	-	-
Nursing and personal care facilities .....	805	32.1	32.0	32.6	32.2	-	-	-	-	-	-
Hospitals .....	806	34.2	34.4	34.3	34.1	-	-	-	-	-	-
Home health care services .....	808	25.4	24.9	26.1	25.8	-	-	-	-	-	-
Legal services .....	81	34.9	34.7	35.6	34.7	-	-	-	-	-	-
Engineering and management services .....	87	37.4	37.1	37.3	36.9	-	-	-	-	-	-
Engineering and architectural services .....	871	39.1	38.9	39.0	38.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	37.7	37.3	37.3	38.1	-	-	-	-	-	-
Research and testing services .....	873	36.2	35.9	36.4	36.0	-	-	-	-	-	-
Management and public relations .....	874	35.4	35.3	35.5	34.9	-	-	-	-	-	-
Services, nec .....	89	37.1	37.0	37.1	35.4	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Services—Continued</b>											
Detective and armored car services .....	7381	\$6.25	\$6.13	\$6.31	\$6.26	-	\$211.88	\$208.42	\$217.70	\$215.34	-
Auto repair, services, and parking .....	75	8.80	8.69	8.94	8.97	-	322.96	313.71	327.20	322.92	-
Automotive repair shops .....	753	9.66	9.58	9.72	9.79	-	369.98	363.08	371.30	369.08	-
Miscellaneous repair services .....	76	10.33	10.20	10.46	10.42	-	391.51	385.56	398.53	391.79	-
Motion pictures .....	78	11.19	10.76	12.79	12.17	-	308.84	296.98	361.96	343.19	-
Motion picture production and services .....	781	17.16	16.65	19.39	18.82	-	614.33	612.72	719.37	685.05	-
Amusement and recreation services .....	79	8.19	8.34	8.62	8.58	-	221.95	225.18	231.02	224.80	-
Misc. amusement and recreation services .....	799	7.34	7.51	7.63	7.59	-	195.98	195.26	199.91	188.99	-
Health services .....	80	10.41	10.23	10.65	10.72	-	339.37	333.50	349.32	348.40	-
Offices and clinics of medical doctors .....	801	10.59	10.26	11.00	11.01	-	335.70	326.27	352.00	349.02	-
Offices and clinics of dentists .....	802	10.13	9.79	10.36	10.40	-	287.69	279.02	298.37	295.36	-
Nursing and personal care facilities .....	805	7.23	7.06	7.39	7.44	-	232.08	225.92	240.91	239.57	-
Hospitals .....	806	11.79	11.63	12.03	12.12	-	403.22	400.07	412.63	413.29	-
Home health care services .....	808	8.77	8.50	9.11	9.25	-	222.76	211.65	237.77	238.65	-
Legal services .....	81	14.18	13.86	14.58	14.36	-	494.88	480.94	519.05	498.29	-
Engineering and management services .....	87	13.58	13.34	14.03	13.92	-	507.89	494.91	523.32	513.65	-
Engineering and architectural services .....	871	14.76	14.48	15.24	15.22	-	577.12	563.27	594.36	579.88	-
Accounting, auditing, and bookkeeping .....	872	12.12	11.73	12.67	12.15	-	456.92	437.53	472.59	462.92	-
Research and testing services .....	873	14.09	13.95	14.56	14.72	-	510.06	500.81	529.98	529.92	-
Management and public relations .....	874	12.53	12.50	12.80	12.83	-	443.56	441.25	454.40	447.77	-
Services, nec .....	89	13.69	13.22	14.19	14.23	-	507.90	489.14	526.45	503.74	-

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

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

<sup>3</sup> Data relate to line-haul railroads with operating revenues of \$50,000,000 or more.

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

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

- Data not available.

<sup>P</sup> = preliminary.

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

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

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

Because of special circumstances in the aerospace industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargain-

ing agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
Average hourly earnings, excluding lump-sum payments .....	\$15.66	\$15.33	\$16.14	\$16.21	\$14.82	\$14.53	\$15.23	\$15.20
Average hourly earnings, including lump-sum payments .....	16.32	16.04	16.60	16.67	15.26	14.99	15.61	15.57

<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	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Manufacturing</b> .....	<b>\$10.38</b>	<b>\$10.16</b>	<b>\$10.58</b>	<b>\$10.63</b>	<b>\$10.64</b>
<b>Durable goods</b> .....	<b>10.86</b>	<b>10.60</b>	<b>11.08</b>	<b>11.15</b>	<b>11.15</b>
Lumber and wood products .....	8.72	8.64	8.76	8.82	(?)
Furniture and fixtures .....	8.27	8.19	8.43	8.43	(?)
Stone, clay, and glass products .....	10.54	10.39	10.71	10.77	(?)
Primary metal industries .....	12.19	11.91	12.39	12.51	(?)
Fabricated metal products .....	10.37	10.16	10.58	10.61	(?)
Industrial machinery and equipment .....	11.24	11.03	11.50	11.53	(?)
Electronic and other electrical equipment .....	9.93	9.76	10.12	10.22	(?)
Transportation equipment .....	13.45	12.99	13.79	13.87	(?)
Instruments and related products .....	10.95	10.73	11.17	11.28	(?)
Miscellaneous manufacturing .....	8.35	8.32	8.51	8.58	(?)
<b>Nondurable goods</b> .....	<b>9.71</b>	<b>9.56</b>	<b>9.89</b>	<b>9.94</b>	<b>\$9.96</b>
Food and kindred products .....	9.12	9.06	9.31	9.32	(?)
Tobacco products .....	15.99	15.04	15.56	15.52	(?)
Textile mill products .....	7.67	7.56	7.80	7.86	(?)
Apparel and other textile products .....	6.45	6.27	6.51	6.52	(?)
Paper and allied products .....	11.66	11.50	11.87	11.88	(?)
Printing and publishing .....	10.83	10.72	10.99	11.01	(?)
Chemicals and allied products .....	12.88	12.68	13.08	13.17	(?)
Petroleum and coal products .....	15.20	14.90	15.47	15.69	(?)
Rubber and misc. plastics products .....	9.38	9.26	9.57	9.69	(?)
Leather and leather products .....	6.75	6.65	6.90	6.95	(?)

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

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987

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



**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>	Avg. 1990	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Feb. 1991 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$10.03	\$9.87	\$10.20	\$10.24	\$10.24	\$346.04	\$336.57	\$353.94	\$346.11	\$347.14
Constant (1982) dollars .....	7.54	7.60	7.48	7.47	( <sup>2</sup> )	259.98	259.10	259.49	252.64	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	13.65	13.46	13.84	14.17	\$14.12	600.60	586.86	628.34	627.73	\$629.75
Constant (1982) dollars .....	10.26	10.36	10.15	10.34	( <sup>2</sup> )	451.24	451.78	460.66	458.20	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	13.73	13.59	13.87	13.96	\$13.86	524.49	510.98	531.22	502.56	\$512.82
Constant (1982) dollars .....	10.32	10.46	10.17	10.19	( <sup>2</sup> )	394.06	393.36	389.46	366.83	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.84	10.60	11.06	11.06	\$11.04	442.27	430.36	456.78	444.61	\$439.39
Constant (1982) dollars .....	8.14	8.16	8.11	8.07	( <sup>2</sup> )	332.28	331.30	334.88	324.53	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.95	12.79	13.13	13.19	\$13.16	503.76	483.46	512.07	503.86	\$502.71
Constant (1982) dollars .....	9.73	9.85	9.63	9.63	( <sup>2</sup> )	378.48	372.18	375.42	367.78	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	10.80	10.61	11.05	11.06	\$11.09	411.48	401.06	424.32	416.96	\$419.20
Constant (1982) dollars .....	8.11	8.17	8.10	8.07	( <sup>2</sup> )	309.15	308.75	311.09	304.35	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.78	6.73	6.86	6.93	\$6.91	195.26	189.11	201.00	191.96	\$194.17
Constant (1982) dollars .....	5.09	5.18	5.03	5.06	( <sup>2</sup> )	146.70	145.58	147.36	140.12	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.99	9.80	10.25	10.27	\$10.32	357.64	348.88	371.05	366.64	\$369.46
Constant (1982) dollars .....	7.51	7.54	7.51	7.50	( <sup>2</sup> )	268.70	268.58	272.03	267.62	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	9.86	9.72	10.14	10.16	\$10.18	321.44	314.93	331.58	327.15	\$329.83
Constant (1982) dollars .....	7.41	7.48	7.43	7.42	( <sup>2</sup> )	241.50	242.44	243.09	238.80	( <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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

Industry	1990											1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>	Feb. <sup>p</sup>
<b>Total private</b> .....	34.6	34.6	34.5	34.5	34.7	34.5	34.5	34.7	34.2	34.4	34.6	34.1	34.3
<b>Mining</b> .....	43.7	43.5	43.4	43.6	44.4	43.7	43.9	44.7	44.0	44.8	44.7	44.3	45.1
<b>Construction</b> .....	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )
<b>Manufacturing</b> .....	40.8	40.8	40.7	40.9	41.0	40.9	41.0	41.0	40.7	40.5	40.7	40.4	40.2
<i>Overtime hours</i> .....	3.6	3.7	3.5	3.8	3.8	3.7	3.8	3.7	3.6	3.5	3.6	3.4	3.3
<b>Durable goods</b> .....	41.3	41.4	41.2	41.5	41.6	41.5	41.5	41.7	41.3	40.9	41.2	40.8	40.6
<i>Overtime hours</i> .....	3.6	3.8	3.5	3.9	3.9	3.8	3.9	3.8	3.6	3.5	3.6	3.3	3.2
Lumber and wood products .....	40.1	40.4	40.2	40.4	40.3	40.2	40.4	40.7	39.8	39.5	39.9	39.4	39.2
Furniture and fixtures .....	39.3	39.2	39.0	39.2	39.3	39.6	39.4	39.1	38.6	38.5	38.8	38.5	37.5
Stone, clay, and glass products .....	42.2	42.0	42.0	42.1	42.3	41.7	42.3	42.2	41.2	41.8	42.0	41.0	41.6
Primary metal industries .....	42.5	42.7	41.8	43.0	43.0	43.1	42.9	43.0	42.9	42.6	42.3	42.1	41.8
Blast furnaces and basic steel products ..	42.9	43.0	42.9	43.5	43.3	44.1	43.5	43.9	43.8	43.9	43.4	42.8	42.3
Fabricated metal products .....	41.4	41.5	41.2	41.7	41.6	41.7	41.6	41.6	41.2	40.8	41.1	40.7	40.6
Industrial machinery and equipment .....	42.1	42.0	41.8	42.1	42.0	42.0	42.1	42.1	42.1	41.8	42.1	41.7	41.5
Electronic and other electrical equipment ..	41.1	41.0	40.9	40.9	41.0	40.7	40.6	41.1	40.7	40.7	40.8	40.2	40.1
Transportation equipment .....	41.6	42.0	41.9	42.5	42.6	42.8	42.6	42.8	42.5	41.1	41.5	41.5	41.0
Motor vehicles and equipment .....	41.5	42.3	41.8	43.4	43.7	43.6	43.7	43.5	42.9	40.3	41.3	41.5	40.6
Instruments and related products .....	41.0	41.1	41.2	41.1	41.2	41.2	41.3	41.3	41.0	41.0	41.2	41.0	41.1
Miscellaneous manufacturing .....	39.5	39.4	39.2	39.4	39.4	39.5	39.9	39.9	39.8	39.6	39.2	39.1	39.2
<b>Nondurable goods</b> .....	40.0	40.0	40.0	40.1	40.3	40.1	40.2	40.2	40.0	39.9	40.0	39.8	39.7
<i>Overtime hours</i> .....	3.5	3.6	3.4	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.6	3.4	3.4
Food and kindred products .....	40.6	40.7	40.6	40.8	40.9	40.5	41.0	41.2	40.6	40.8	40.9	40.6	40.3
Tobacco products .....	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )
Textile mill products .....	40.2	40.0	40.0	40.2	40.4	40.2	40.0	40.0	39.9	39.3	39.4	39.4	39.1
Apparel and other textile products .....	36.6	36.3	36.4	36.6	36.7	36.6	36.6	36.6	36.4	36.3	36.6	36.3	36.5
Paper and allied products .....	43.1	43.2	43.3	43.3	43.5	43.5	43.5	43.2	43.5	43.4	43.5	42.9	42.8
Printing and publishing .....	37.9	38.0	37.8	37.9	38.0	38.0	38.2	38.0	37.9	37.8	37.8	37.6	37.5
Chemicals and allied products .....	42.4	42.5	42.6	42.6	42.6	42.4	42.3	42.7	42.6	42.6	42.8	42.4	42.4
Petroleum and coal products .....	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )
Rubber and misc. plastics products .....	41.2	41.4	40.9	41.4	41.6	41.5	41.3	41.4	41.1	40.9	41.0	40.9	40.7
Leather and leather products .....	37.7	37.7	37.5	37.4	37.5	37.4	37.7	37.5	37.2	36.8	37.4	36.9	36.9
<b>Transportation and public utilities</b> .....	38.7	39.0	39.0	39.1	39.2	39.0	38.9	39.1	38.4	38.7	38.9	38.7	38.5
<b>Wholesale trade</b> .....	38.0	38.1	38.1	38.0	38.1	38.1	38.1	38.2	37.9	38.0	38.3	37.9	38.0
<b>Retail trade</b> .....	28.9	29.0	29.0	29.0	29.0	28.9	28.7	28.9	28.4	28.7	28.8	28.4	28.7
<b>Finance, insurance, and real estate</b> .....	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )
<b>Services</b> .....	32.6	32.5	32.6	32.5	32.6	32.6	32.5	32.8	32.3	32.5	32.8	32.3	32.6

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

<sup>p</sup> = preliminary.

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

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(1982 = 100)

Industry	1990												1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>P</sup>	Feb. <sup>P</sup>	
<b>Total private</b> .....	124.4	124.4	124.2	124.6	125.3	124.8	124.6	125.3	123.1	123.4	124.0	121.9	122.3	
<b>Goods-producing</b> .....	112.1	111.5	110.1	111.2	111.7	110.5	110.5	110.3	108.0	107.0	107.0	104.0	104.1	
<b>Mining</b> .....	64.9	64.9	65.2	65.9	68.0	66.9	66.1	67.3	66.6	67.9	68.1	67.0	68.4	
<b>Construction</b> .....	147.7	144.6	138.6	142.1	144.3	138.4	139.8	139.7	132.1	135.4	135.0	123.5	129.4	
<b>Manufacturing</b> .....	107.6	107.5	107.0	107.5	107.6	107.4	107.1	106.8	105.6	103.5	103.5	102.2	101.0	
<b>Durable goods</b> .....	107.2	107.3	106.5	107.3	107.1	107.1	106.5	105.9	104.6	101.8	101.9	100.4	98.6	
Lumber and wood products .....	131.5	132.5	131.7	131.9	130.5	129.7	129.7	130.5	126.1	122.9	123.3	120.3	117.4	
Furniture and fixtures .....	127.0	126.6	125.4	125.7	126.0	125.8	125.7	123.9	121.4	118.0	117.7	116.5	111.4	
Stone, clay, and glass products .....	113.3	111.7	110.7	110.5	110.5	108.2	109.5	108.7	105.9	106.2	106.2	101.4	102.6	
Primary metal industries .....	92.6	92.7	90.9	93.5	93.5	94.3	93.0	92.9	92.7	90.9	89.5	89.2	86.7	
Blast furnaces and basic steel products .....	80.3	79.3	79.1	81.2	80.4	82.3	80.8	81.6	81.8	81.6	80.2	78.4	75.6	
Fabricated metal products .....	107.4	107.7	107.2	108.3	107.8	108.5	108.1	107.4	105.9	103.5	103.8	102.5	100.0	
Industrial machinery and equipment .....	99.4	98.8	98.2	98.9	98.4	98.5	98.1	96.8	96.8	95.4	95.5	94.3	93.0	
Electronic and other electrical equipment .....	110.3	110.2	109.7	109.5	109.6	108.3	107.2	107.6	106.1	104.9	104.6	102.0	101.4	
Transportation equipment .....	119.8	121.1	120.2	121.8	123.3	124.1	122.2	121.3	120.0	110.0	112.0	111.1	107.1	
Motor vehicles and equipment .....	125.5	128.3	123.4	131.2	133.7	133.2	131.2	129.1	127.2	109.3	114.8	113.8	108.4	
Instruments and related products .....	88.2	88.4	88.4	87.7	87.2	86.8	86.5	86.0	84.8	84.3	84.7	84.3	84.5	
Miscellaneous manufacturing .....	105.6	104.6	102.9	104.2	102.7	104.5	104.8	104.8	103.8	102.1	100.7	100.8	100.3	
<b>Nondurable goods</b> .....	108.0	107.8	107.6	107.9	108.2	107.7	108.0	107.9	106.9	106.0	105.8	104.8	104.5	
Food and kindred products .....	108.3	108.5	108.7	109.2	108.7	107.9	109.7	110.4	108.9	109.1	109.9	109.3	109.5	
Tobacco products .....	67.6	68.1	64.7	65.8	64.3	66.6	68.8	68.5	66.0	66.8	69.0	67.5	65.1	
Textile mill products .....	102.2	101.2	101.2	100.9	101.2	100.6	100.1	99.4	97.6	96.2	95.3	94.8	93.1	
Apparel and other textile products .....	94.4	92.7	92.9	92.9	93.0	92.4	92.4	92.3	91.3	89.7	89.8	88.2	88.8	
Paper and allied products .....	110.3	110.4	110.8	110.4	111.4	111.6	111.8	110.8	111.4	110.2	110.3	109.2	108.9	
Printing and publishing .....	128.1	128.4	127.6	128.1	128.6	129.0	129.6	128.3	127.8	126.7	126.2	125.3	124.4	
Chemicals and allied products .....	104.4	104.3	104.6	104.6	104.4	104.3	103.2	104.1	103.9	103.5	103.9	101.8	102.5	
Petroleum and coal products .....	88.4	89.2	88.0	88.0	93.0	88.3	88.0	89.9	86.8	92.0	86.4	85.6	89.6	
Rubber and misc. plastics products .....	125.0	125.6	124.6	126.0	127.3	127.2	126.8	126.7	125.2	122.2	121.4	120.4	118.3	
Leather and leather products .....	63.1	63.1	62.2	61.5	61.1	59.8	59.6	58.8	57.1	55.4	55.7	55.0	53.9	
<b>Service-producing</b> .....	129.9	130.2	130.5	130.6	131.4	131.2	130.9	132.0	129.9	130.8	131.7	129.9	130.5	
<b>Transportation and public utilities</b> .....	114.2	115.3	115.2	116.0	116.7	115.8	115.2	116.4	114.4	115.4	116.4	115.8	114.6	
<b>Wholesale trade</b> .....	119.1	119.4	119.3	118.9	119.8	119.5	119.5	119.6	118.4	118.4	119.1	117.3	116.9	
<b>Retail trade</b> .....	124.4	124.9	125.0	125.1	125.3	125.1	124.1	124.9	122.5	123.3	123.3	121.5	122.2	
<b>Finance, insurance, and real estate</b> .....	122.2	122.3	122.6	122.5	122.9	123.1	122.9	124.1	121.2	122.0	123.6	121.5	121.6	
<b>Services</b> .....	143.8	143.9	144.4	144.6	145.8	145.9	146.0	147.7	145.7	146.9	148.2	146.3	147.7	

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

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

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

Industry	1990												1991	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>	Feb. <sup>p</sup>	
Average hourly earnings														
<b>Total private (in current dollars)</b> .....	\$9.88	\$9.93	\$9.96	\$9.98	\$10.03	\$10.07	\$10.09	\$10.13	\$10.12	\$10.14	\$10.19	\$10.20	\$10.20	
<b>Mining</b> .....	13.33	13.51	13.59	13.58	13.73	13.79	13.73	13.83	13.79	13.84	13.77	14.04	13.98	
<b>Construction</b> .....	13.63	13.66	13.62	13.71	13.73	13.76	13.78	13.82	13.82	13.79	13.79	13.92	13.90	
<b>Manufacturing</b> .....	10.67	10.73	10.75	10.81	10.86	10.89	10.90	10.93	10.97	10.97	11.00	11.04	11.03	
<b>Excluding overtime<sup>2</sup></b> .....	10.22	10.28	10.34	10.35	10.38	10.40	10.40	10.44	10.50	10.50	10.58	10.63	10.62	
<b>Transportation and public utilities</b> .....	12.83	12.87	12.96	12.88	12.92	13.02	13.00	13.02	13.03	13.02	13.10	13.18	13.12	
<b>Wholesale trade</b> .....	10.62	10.67	10.74	10.74	10.80	10.84	10.84	10.94	10.89	10.93	11.03	11.02	11.06	
<b>Retail trade</b> .....	6.69	6.73	6.74	6.76	6.78	6.79	6.82	6.83	6.84	6.87	6.85	6.88	6.88	
<b>Finance, insurance, and real estate</b> .....	9.77	9.82	9.88	9.87	9.98	10.08	10.06	10.17	10.11	10.12	10.27	10.19	10.21	
<b>Services</b> .....	9.67	9.72	9.79	9.80	9.85	9.92	9.93	9.98	9.96	9.99	10.07	10.06	10.10	
<b>Total private (in constant dollars)<sup>3</sup></b> .....	7.56	7.57	7.58	7.58	7.58	7.58	7.53	7.50	7.45	7.44	7.45	7.43	( <sup>4</sup> )	
Average weekly earnings														
<b>Total private:</b>														
In current dollars .....	341.85	343.58	343.62	344.31	348.04	347.42	348.11	351.51	346.10	348.82	352.57	347.82	349.86	
In constant (1982) dollars <sup>3</sup> .....	261.55	261.88	261.51	261.44	262.87	261.61	259.78	260.19	254.67	255.92	257.92	253.51	( <sup>4</sup> )	

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

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

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

<sup>4</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision. The CPI-W has been revised to reflect the experience through December 1990. Constant-dollar earnings series have been revised from January 1986 through December 1990.

**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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Alabama</b> .....	41.1	41.3	40.6	\$9.24	\$9.58	\$9.67	\$379.76	\$395.65	\$392.60
Birmingham .....	41.1	41.7	38.9	9.57	9.92	9.83	393.33	413.66	382.39
Mobile .....	41.7	43.0	41.8	11.37	11.51	11.60	474.13	494.93	484.88
<b>Alaska</b> .....	41.4	37.1	41.7	12.10	13.13	11.73	500.94	487.12	489.14
<b>Arizona</b> .....	41.1	40.7	40.3	9.99	10.49	10.43	410.59	426.94	420.33
<b>Arkansas</b> .....	41.1	41.6	40.9	8.36	8.66	8.73	343.60	360.26	357.06
Fayetteville-Springdale .....	39.0	39.9	38.9	7.52	7.78	7.64	293.28	310.42	297.20
Fort Smith .....	40.7	40.1	39.1	8.70	8.77	8.91	354.09	351.68	348.38
Little Rock-North Little Rock .....	41.3	41.1	41.1	9.13	9.10	9.20	377.07	374.01	378.12
Pine Bluff .....	42.2	43.1	42.8	10.37	10.44	10.54	437.61	449.96	451.11
<b>California</b> .....	40.2	41.4	40.1	11.26	11.77	11.71	452.65	487.28	469.57
Anaheim-Santa Ana .....	40.8	42.0	40.4	11.21	11.94	12.02	457.37	501.48	485.61
Bakersfield .....	39.8	40.2	40.1	12.35	12.30	12.25	491.53	494.46	491.23
Fresno .....	38.9	42.4	39.4	9.22	9.98	10.20	358.66	423.15	401.88
Los Angeles-Long Beach .....	40.5	41.7	40.9	10.71	11.18	11.07	433.76	465.37	452.78
Modesto .....	38.9	40.0	38.2	10.67	11.07	10.97	415.06	442.80	419.05
Oakland .....	42.0	41.6	40.0	13.23	13.62	13.79	555.66	566.59	551.60
Oxnard-Ventura .....	40.3	42.8	40.6	10.76	11.06	11.02	433.63	473.37	447.41
Riverside-San Bernardino .....	40.1	40.9	39.0	10.09	10.60	10.44	404.61	433.54	407.16
Sacramento .....	39.9	38.6	37.8	11.59	12.22	12.29	462.44	471.69	484.56
San Diego .....	40.2	41.3	39.6	11.36	11.96	11.79	456.67	493.95	466.88
San Francisco .....	39.5	39.6	39.3	13.00	13.24	13.19	513.50	524.30	518.37
San Jose .....	39.8	41.2	40.2	13.55	13.97	13.94	539.29	575.56	560.39
Santa Barbara-Santa Maria-Lompoc .....	40.4	41.8	41.7	11.71	12.07	12.09	473.08	504.53	504.15
Santa Rosa-Petaluma .....	38.8	40.1	37.8	11.02	11.41	11.52	405.54	457.54	433.15
Stockton .....	41.9	41.4	40.4	11.19	11.42	11.41	468.86	472.79	460.96
Vallejo-Fairfield-Napa .....	39.0	40.1	38.7	13.29	13.72	13.78	518.31	550.17	533.29
<b>Colorado</b> .....	39.9	42.0	40.5	10.46	11.16	11.27	417.35	468.72	456.44
Denver .....	38.9	41.0	40.5	11.76	12.52	12.52	457.46	513.32	507.06
<b>Connecticut</b> .....	42.4	42.3	41.4	11.38	11.80	11.79	482.51	499.14	488.11
Bridgeport-Milford .....	43.2	42.7	41.7	11.92	12.35	12.18	514.94	527.35	507.91
Hartford .....	43.0	42.8	41.4	12.21	12.71	12.55	525.03	541.45	519.57
New Britain .....	42.6	42.7	41.0	12.08	12.74	12.36	514.61	544.00	506.76
New Haven-Meriden .....	41.2	41.1	40.5	10.82	11.13	11.21	445.78	457.44	454.01
Stamford .....	41.5	41.5	40.2	11.43	12.18	12.18	474.35	505.47	489.64
Waterbury .....	42.2	42.6	41.1	10.23	11.05	10.87	431.71	470.73	446.76
<b>Delaware</b> .....	41.2	41.5	40.1	12.18	11.50	12.14	501.82	477.25	486.81
Wilmington .....	42.3	43.1	40.4	14.79	13.75	14.51	625.62	592.63	586.20
<b>District of Columbia:</b>									
Washington MSA .....	38.8	38.9	37.1	12.16	12.87	12.99	471.81	500.64	481.93
<b>Florida</b> .....	41.2	41.7	40.5	8.82	9.16	9.14	363.38	381.97	370.17
Fort Lauderdale-Hollywood-Pompano Beach .....	40.8	41.9	39.8	8.86	9.44	9.37	361.49	395.54	372.93
Jacksonville .....	40.6	42.6	41.9	9.36	9.65	9.57	380.02	411.09	400.98
Miami-Hialeah .....	39.9	40.8	39.4	7.48	7.63	7.64	298.45	311.30	301.02
Orlando .....	41.0	41.6	41.6	10.07	10.30	10.30	412.87	428.48	428.48
Pensacola .....	42.9	45.5	43.6	11.24	11.66	11.79	482.20	530.53	516.40
Tampa-St. Petersburg-Clearwater .....	41.0	41.5	40.3	9.13	9.22	9.28	374.33	382.63	373.98
West Palm Beach-Boca Raton-DeLray Beach .....	42.9	44.1	43.6	9.71	10.02	9.98	416.56	441.88	435.13
<b>Georgia</b> .....	41.1	41.8	40.6	9.00	9.38	9.36	369.90	392.08	380.02
Atlanta .....	42.2	42.1	40.8	10.48	10.87	10.98	442.26	457.63	447.98
Savannah .....	43.9	48.6	44.2	11.40	11.70	11.70	500.46	568.62	517.14
<b>Hawaii</b> .....	38.7	41.8	38.7	10.87	11.44	11.16	420.67	478.19	431.89
Honolulu .....	38.5	41.2	39.2	11.08	11.96	11.67	426.58	492.75	457.46
<b>Idaho</b> .....	37.9	38.2	38.7	10.50	10.98	11.21	397.95	419.44	433.83

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Illinois</b> .....	41.5	41.4	40.9	\$11.28	\$11.57	\$11.58	\$468.12	\$479.00	\$473.62
Aurora-Elgin .....	40.4	41.3	40.0	10.67	11.52	11.45	431.07	475.78	458.00
Bloomington-Normal .....	41.1	43.7	42.6	12.11	13.92	13.93	497.72	608.30	593.42
Champaign-Urbana-Rantoul .....	40.1	40.9	41.4	10.01	10.00	10.13	401.40	409.00	419.38
Chicago .....	41.5	41.3	40.3	11.05	11.27	11.26	458.58	465.45	453.78
Davenport-Rock Island-Moline .....	42.0	40.3	40.7	13.34	13.49	13.59	560.28	543.65	553.11
Decatur .....	44.8	42.3	44.0	14.53	14.87	14.97	650.94	629.00	658.68
Joliet .....	42.2	41.1	41.3	13.06	13.12	13.21	551.13	539.23	545.57
Kankakee .....	42.0	41.2	41.7	11.73	12.04	12.05	492.66	496.05	502.49
Lake County .....	40.1	40.6	40.7	11.65	11.60	11.61	467.17	470.96	472.53
Peoria .....	42.5	42.6	42.8	13.76	14.16	14.28	584.80	603.22	611.18
Rockford .....	41.3	40.8	40.6	12.18	12.57	12.53	503.03	512.86	508.72
Springfield .....	37.8	39.9	39.0	9.88	10.84	11.09	373.46	432.52	432.51
<b>Indiana</b> .....	40.8	41.8	40.9	11.78	12.16	12.30	480.62	508.29	503.07
<b>Iowa</b> .....	40.4	41.0	40.6	11.06	11.67	11.65	446.82	478.47	472.99
Cedar Rapids .....	39.8	41.3	41.8	12.69	14.22	13.53	505.06	587.29	565.55
Des Moines .....	41.2	42.6	42.4	12.01	12.51	12.25	494.81	532.93	519.40
Dubuque .....	40.0	42.1	41.9	11.54	12.44	12.30	461.60	523.72	515.37
Sioux City .....	38.6	41.5	41.8	8.48	9.19	9.20	327.33	381.39	384.56
<b>Kansas</b> .....	39.9	40.8	39.8	10.76	11.04	10.99	429.32	450.43	437.40
Topeka .....	41.6	37.8	38.9	11.81	12.19	12.45	491.30	460.78	484.31
Wichita .....	40.6	41.0	39.9	12.01	12.46	12.46	487.61	510.86	497.15
<b>Kentucky</b> .....	40.0	40.6	40.1	10.39	10.92	10.75	415.60	443.35	431.08
Lexington-Fayette .....	41.0	41.9	41.7	10.76	11.31	11.42	441.16	473.89	476.21
Louisville .....	40.9	43.2	42.3	11.78	12.43	12.26	481.80	536.98	518.60
<b>Louisiana</b> .....	43.3	43.3	43.3	11.46	11.74	11.78	496.22	508.34	510.07
Baton Rouge .....	45.4	46.3	43.6	13.95	13.42	13.92	633.33	621.35	606.91
New Orleans .....	42.7	42.7	42.8	10.98	10.96	11.01	468.85	467.99	471.23
Shreveport .....	41.1	42.4	42.6	11.02	13.41	12.94	452.92	568.58	551.24
<b>Maine</b> .....	40.4	41.0	39.7	10.36	10.76	10.94	418.54	441.16	434.32
Lewiston-Auburn .....	38.6	38.3	37.6	8.98	9.48	9.46	346.63	363.08	355.70
Portland .....	38.8	39.8	37.1	10.53	10.44	10.66	408.56	415.51	395.49
<b>Maryland</b> .....	40.5	41.4	40.2	11.25	11.60	11.74	455.63	480.24	471.95
Baltimore MSA .....	40.9	41.9	40.5	11.67	12.03	12.20	477.30	504.06	494.10
<b>Massachusetts</b> .....	40.6	41.1	40.8	11.11	11.64	11.60	451.07	478.40	473.28
Boston .....	40.5	41.4	39.9	11.77	12.46	12.26	476.69	515.84	489.17
Springfield .....	41.6	42.1	41.4	10.52	10.91	10.82	437.63	459.31	447.95
Worcester .....	41.3	42.9	42.5	10.96	11.28	11.14	452.65	483.91	473.45
<b>Michigan</b> .....	40.5	41.7	41.1	13.22	14.25	14.18	535.41	594.22	582.80
Ann Arbor .....	42.6	42.7	42.3	14.08	15.75	15.84	599.81	672.52	670.03
Battle Creek .....	41.9	42.3	42.8	14.41	14.77	15.43	603.78	624.77	660.40
Detroit .....	40.8	42.5	41.8	14.38	15.33	15.17	586.70	651.52	634.11
Flint .....	40.0	40.0	40.3	17.14	18.35	18.51	685.60	734.00	745.95
Grand Rapids .....	40.8	41.6	40.6	11.67	11.99	11.81	476.14	498.78	479.49
Jackson .....	40.3	41.3	40.0	10.56	10.91	10.55	425.57	450.58	422.00
Kalamazoo .....	42.4	43.8	42.6	13.04	14.32	14.47	552.90	627.22	616.42
Lansing-East Lansing .....	32.1	40.3	39.8	14.19	16.07	16.48	455.50	647.62	655.90
Muskegon .....	41.5	41.4	40.9	12.50	12.85	12.85	518.75	531.99	525.56
Saginaw-Bay City-Midland .....	42.9	40.6	40.1	14.31	16.27	16.67	613.90	660.56	668.47
<b>Minnesota</b> .....	40.2	40.9	40.2	11.17	11.41	11.42	449.03	466.67	459.08
Duluth .....	38.9	39.6	41.1	12.19	11.70	11.78	474.19	463.32	484.16
Minneapolis-St. Paul .....	40.4	41.1	40.5	11.66	12.07	12.07	471.06	496.08	488.84
St. Cloud .....	41.5	39.7	38.4	9.93	10.19	10.23	412.10	404.54	392.83
<b>Mississippi</b> .....	39.4	39.5	38.8	8.21	8.51	8.49	323.47	336.15	329.41
Jackson .....	40.3	40.2	39.5	9.14	9.51	9.61	368.34	382.30	379.60

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Missouri</b> .....	40.6	41.3	39.5	\$10.60	\$10.87	\$10.60	\$430.36	\$448.93	\$418.70
Kansas City .....	41.0	42.1	40.8	11.27	11.60	11.09	462.07	488.36	452.47
St. Louis .....	42.3	43.2	41.4	12.62	13.16	12.82	533.83	568.51	530.75
Springfield .....	40.5	41.5	38.7	9.08	9.48	9.37	367.74	393.42	362.62
<b>Montana</b> .....	38.8	40.1	38.6	11.28	11.48	11.46	437.66	460.35	442.36
<b>Nebraska</b> .....	40.4	41.4	40.8	9.50	9.83	9.73	383.80	406.96	396.98
Lincoln .....	39.9	39.3	38.8	10.78	10.88	11.01	430.12	427.58	427.19
Omaha .....	41.1	42.8	41.2	10.20	10.83	10.62	419.22	463.52	437.54
<b>Nevada</b> .....	41.1	42.4	40.3	11.09	11.21	10.98	455.80	475.30	442.49
Las Vegas .....	42.9	43.1	40.4	13.37	13.07	12.44	573.57	563.32	502.58
<b>New Hampshire</b> .....	41.1	42.5	40.6	10.77	10.95	10.86	442.65	465.38	440.92
Manchester .....	41.7	47.2	40.6	10.89	10.82	10.80	454.11	510.70	438.48
Nashua .....	40.1	42.4	39.6	13.39	13.65	13.63	536.94	578.76	539.75
Portsmouth-Dover-Rochester .....	41.1	42.0	42.9	10.11	10.43	10.07	415.52	438.06	432.00
<b>New Jersey</b> .....	41.2	42.2	40.6	11.72	12.08	11.99	482.86	509.78	486.79
<b>New Mexico</b> .....	39.2	41.9	40.7	9.05	9.30	9.33	354.76	389.67	379.73
Albuquerque .....	38.3	40.0	38.6	9.06	9.58	9.52	347.00	383.20	367.47
<b>New York</b> .....	39.7	40.3	39.5	10.81	11.27	11.34	429.16	454.18	447.93
Albany-Schenectady-Troy .....	39.9	41.8	39.9	11.62	12.12	11.82	463.64	506.62	471.62
Binghamton .....	40.8	40.9	39.4	9.64	10.11	10.19	393.31	413.50	401.49
Buffalo .....	41.0	42.5	40.3	12.39	13.27	13.26	507.99	563.98	534.38
Elmira .....	40.5	41.9	41.0	9.43	10.11	10.21	381.92	423.61	418.61
Glens Falls .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	39.8	40.8	39.5	11.90	12.02	12.02	473.62	490.42	474.79
New York PMSA .....	37.1	37.7	36.6	10.28	10.41	10.52	381.39	392.46	385.03
New York City .....	36.5	37.5	36.5	10.05	10.35	10.46	366.83	386.13	381.79
Niagara Falls .....	41.0	41.6	41.8	13.01	13.82	14.21	533.41	574.91	593.98
Orange County .....	40.2	40.4	39.0	9.30	9.88	9.81	373.86	399.15	382.59
Poughkeepsie .....	40.2	40.3	39.6	10.99	10.95	11.01	441.80	441.29	436.00
Rochester .....	42.0	42.3	42.6	12.47	12.90	13.04	523.74	545.67	555.50
Rockland County .....	39.1	41.7	38.6	8.76	9.64	9.96	342.52	401.99	384.46
Syracuse .....	40.7	41.5	40.8	11.95	12.35	12.31	486.37	512.53	502.25
Utica-Rome .....	40.8	40.7	39.6	10.24	10.73	10.63	417.79	436.71	420.95
Westchester County .....	40.9	38.3	36.6	12.47	11.32	11.24	510.02	433.56	411.38
<b>North Carolina</b> .....	40.0	40.1	39.5	8.63	8.98	9.03	345.20	360.10	356.69
Asheville .....	40.7	42.3	41.5	8.63	9.03	8.99	351.24	381.97	373.09
Charlotte-Gastonia-Rock Hill .....	40.0	39.8	39.7	9.22	9.58	9.61	368.80	381.28	381.52
Greensboro-Winston-Salem-High Point .....	38.9	39.6	39.2	9.39	9.77	9.73	365.27	386.89	381.42
Raleigh-Durham .....	41.9	42.9	41.6	9.73	10.19	10.27	407.69	437.15	427.23
<b>North Dakota</b> .....	39.6	40.2	41.7	8.82	8.74	9.09	349.27	351.35	379.05
Fargo-Moorhead .....	39.1	38.0	38.8	8.68	8.77	8.65	339.39	333.26	335.62
<b>Ohio</b> .....	42.0	42.3	41.9	12.19	12.84	12.84	511.98	543.13	538.00
Akron .....	42.9	42.9	42.2	11.60	12.02	11.87	497.64	515.66	500.91
Canton .....	42.3	41.7	41.7	11.24	11.35	11.33	475.45	473.30	472.46
Cincinnati .....	42.8	43.1	42.7	11.73	12.35	12.30	502.04	532.29	525.21
Cleveland .....	42.3	42.4	41.8	11.71	12.17	12.20	495.33	516.01	509.96
Columbus .....	42.1	43.0	41.7	12.27	12.77	12.67	516.57	549.11	528.34
Dayton-Springfield .....	41.4	41.5	41.5	12.93	13.60	13.70	535.30	564.40	568.55
Toledo .....	42.1	42.8	42.6	12.42	13.40	13.31	522.88	573.52	567.01
Youngstown-Warren .....	42.2	41.8	42.0	13.74	15.34	15.37	579.83	641.21	645.54
<b>Oklahoma</b> .....	42.2	41.8	41.4	10.30	10.77	10.74	434.66	450.19	444.64
Oklahoma City .....	43.7	43.3	41.8	10.79	11.58	11.62	471.52	501.41	494.08
Tulsa .....	41.2	43.6	41.9	11.22	11.69	11.65	462.26	509.68	488.14
<b>Oregon</b> .....	38.6	40.0	36.4	11.09	11.34	11.47	428.07	453.60	440.45
Eugene-Springfield .....	40.2	36.5	37.1	10.79	11.10	10.83	433.76	405.15	401.79
Portland .....	38.9	40.2	39.3	11.24	11.59	11.73	437.24	465.92	460.99
Salem .....	36.5	38.1	36.2	10.11	9.90	10.17	369.02	377.19	368.15

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Pennsylvania</b> .....	40.6	40.9	39.8	\$10.88	\$11.27	\$11.26	\$441.73	\$460.94	\$448.15
Allentown-Bethlehem .....	39.7	39.9	38.3	10.86	11.38	11.34	431.14	454.06	434.32
Altoona .....	38.5	39.0	39.2	9.43	9.63	9.54	363.06	375.57	373.97
Beaver County .....	43.4	44.4	43.3	10.79	11.35	11.44	468.29	503.94	495.35
Erie .....	44.0	43.2	43.3	11.34	11.76	11.73	498.96	508.03	507.91
Harrisburg-Lebanon-Carlisle .....	40.8	40.6	38.6	11.11	11.30	11.25	453.29	458.78	434.25
Johnstown .....	38.0	37.8	38.2	8.50	8.76	8.81	323.00	331.13	336.54
Lancaster .....	40.1	40.0	37.9	10.76	11.17	11.19	431.48	446.80	424.10
Philadelphia PMSA .....	40.2	41.8	39.8	11.84	12.25	12.24	475.97	512.05	487.15
Pittsburgh .....	41.8	41.2	41.2	11.22	11.42	11.41	469.00	470.50	470.09
Reading .....	41.2	40.7	40.1	11.34	11.66	11.71	467.21	474.56	469.57
Scranton-Wilkes-Barre .....	38.7	39.4	38.3	9.53	9.89	9.89	368.81	389.67	378.79
Sharon .....	42.4	42.9	43.5	11.99	12.15	12.24	508.38	521.24	532.44
State College .....	40.0	37.9	37.7	9.53	9.86	9.80	381.20	373.69	369.46
Williamsport .....	40.7	39.9	39.4	9.56	10.58	10.49	389.09	422.14	413.31
York .....	41.6	42.2	39.7	10.41	10.99	10.95	433.06	463.78	434.72
<b>Rhode Island</b> .....	39.5	40.2	39.1	9.29	9.69	9.74	366.96	389.54	380.83
Pawtucket-Woonsocket-Attleboro .....	38.9	39.6	38.5	8.61	9.07	9.03	334.93	359.17	347.66
Providence .....	39.2	40.0	38.6	8.81	9.75	9.88	345.35	390.00	381.37
<b>South Carolina</b> .....	41.2	41.2	40.9	8.71	9.01	9.03	358.85	371.21	369.33
Charleston .....	41.2	41.0	40.6	9.09	9.18	9.24	374.51	376.38	375.14
Columbia .....	41.7	41.2	41.3	8.91	9.10	9.19	371.55	374.92	379.55
Greenville-Spartanburg .....	40.9	41.4	41.0	8.67	8.97	8.99	354.60	371.36	368.59
<b>South Dakota</b> .....	40.8	41.0	39.8	8.41	8.70	8.69	343.13	356.70	345.86
Sioux Falls .....	42.3	44.1	43.4	8.54	9.00	9.11	361.24	396.90	395.37
<b>Tennessee</b> .....	38.9	39.5	39.0	9.28	9.73	9.76	360.99	384.34	380.64
Chattanooga .....	40.1	42.1	41.3	8.33	8.97	8.94	334.03	377.64	369.22
Johnson City-Kingsport-Bristol .....	40.2	41.1	40.1	9.05	10.36	10.61	363.81	425.80	425.46
Knoxville .....	37.6	37.8	38.3	9.25	9.95	9.71	347.80	376.11	371.89
Memphis .....	40.2	41.0	39.9	9.53	10.02	10.21	383.11	410.82	407.38
Nashville .....	41.0	41.2	41.2	10.65	11.30	11.20	436.65	465.56	461.44
<b>Texas</b> .....	41.7	42.5	41.9	10.37	10.61	10.63	432.43	450.93	445.40
Dallas .....	42.0	43.0	41.8	10.24	10.48	10.50	430.08	450.64	438.90
Ft. Worth-Arlington .....	41.4	41.4	41.9	11.21	11.40	11.52	464.09	471.96	482.69
Houston .....	44.1	45.8	45.3	11.89	12.30	12.25	524.35	563.34	554.93
San Antonio .....	41.2	40.9	39.6	7.51	8.02	7.92	309.41	328.02	313.63
<b>Utah</b> .....	39.7	40.4	39.9	10.23	10.70	10.07	406.13	432.28	401.79
Salt Lake City-Ogden .....	39.7	41.3	40.2	10.15	10.73	10.98	402.96	443.15	441.40
<b>Vermont</b> .....	40.7	42.5	41.3	10.36	10.73	10.78	421.65	456.03	445.21
Burlington .....	41.0	40.6	39.4	10.96	11.29	11.31	449.36	458.37	445.61
<b>Virginia</b> .....	40.7	40.9	39.7	9.86	10.30	10.28	401.30	421.27	408.12
Bristol .....	41.1	42.7	41.2	8.18	8.96	8.90	336.20	382.59	366.68
Charlottesville .....	43.7	43.4	39.0	8.58	8.98	9.02	374.95	389.73	351.78
Danville .....	42.0	41.8	40.6	9.61	9.94	10.00	403.62	415.49	406.00
Lynchburg .....	41.1	40.2	39.4	9.75	9.80	10.05	400.73	393.96	395.97
Northern Virginia .....	40.5	38.8	37.6	11.06	11.49	11.51	447.93	445.81	432.78
Richmond-Petersburg .....	42.7	43.6	42.5	12.72	13.48	13.57	543.14	587.73	576.73
Roanoke .....	42.3	41.5	40.7	11.89	11.92	12.32	502.95	494.68	501.42
<b>Washington</b> .....	40.5	40.1	39.3	12.53	13.08	13.27	507.47	524.51	521.51
<b>West Virginia</b> .....	40.6	42.0	40.7	11.34	11.73	11.63	460.40	492.66	473.34
Charleston .....	44.2	44.9	42.1	13.38	12.90	13.47	591.40	579.21	567.09
Huntington-Ashland .....	40.7	39.8	40.3	13.09	13.35	13.15	532.76	531.33	529.95
Parkersburg-Marietta .....	42.1	42.8	42.0	13.05	13.68	13.63	549.41	585.50	572.46
Wheeling .....	41.4	41.9	39.4	13.27	13.62	13.05	549.38	570.68	514.17

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Wisconsin</b> .....	41.0	42.4	41.0	\$10.94	\$11.51	\$11.28	\$448.54	\$488.02	\$462.48
Appleton-Oshkosh .....	42.4	44.4	43.1	11.96	12.23	12.24	507.10	543.01	527.54
Eau Claire .....	43.2	46.8	45.7	11.08	11.87	11.82	478.66	555.52	540.17
Green Bay .....	40.6	43.9	44.0	11.83	12.40	12.40	482.66	544.36	545.60
Janesville-Beloit .....	42.0	41.1	44.4	11.61	13.88	12.73	487.62	570.47	565.21
Kenosha .....	35.8	41.8	37.0	11.02	12.22	11.68	394.52	510.80	432.16
La Crosse .....	39.1	42.9	41.5	9.76	9.98	9.91	381.62	428.14	411.27
Madison .....	40.0	41.5	39.9	10.14	11.08	10.69	405.60	459.82	426.53
Milwaukee .....	42.0	42.0	41.0	11.83	12.07	12.07	496.66	506.94	494.87
Racine .....	39.9	41.2	39.0	11.12	11.90	11.43	443.69	490.26	445.77
Sheboygan .....	43.8	43.6	42.0	10.82	11.10	10.98	473.92	483.96	461.16
Wausau .....	42.3	43.0	43.4	10.72	11.26	11.17	453.46	485.04	484.78
<b>Wyoming</b> .....	39.8	40.3	37.8	10.60	10.57	10.53	421.88	425.97	398.03
<b>Puerto Rico</b> .....	38.9	39.6	37.5	5.90	6.25	6.19	229.51	247.50	232.13
<b>Virgin Islands</b> .....	40.4	42.4	41.0	11.77	12.16	12.88	475.51	515.58	528.08

<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		
	Dec. 1990 <sup>r</sup>	Jan. 1991 <sup>r</sup>	Feb. 1991 <sup>p</sup>	Feb. 1990 to Feb. 1991 <sup>p</sup>	Dec. 1990 to Jan. 1991 <sup>r</sup>	Jan. 1991 to Feb. 1991 <sup>p</sup>
Total .....	204,240	201,574	202,198	-0.8	-1.3	0.3
Private sector .....	167,439	164,755	165,404	-1.3	-1.6	.4
Mining .....	1,720	1,698	1,733	4.9	-1.3	2.1
Construction .....	10,075	9,289	9,700	-10.2	-7.8	4.4
Manufacturing .....	39,620	39,248	38,877	-4.8	-9	-9
Durable goods .....	23,187	22,915	22,593	-6.6	-1.2	-1.4
Nondurable goods .....	16,433	16,333	16,284	-2.2	-6	-3
Transportation and public utilities .....	11,898	11,841	11,708	.2	-5	-1.1
Wholesale trade .....	12,609	12,410	12,397	-1.3	-1.6	-1
Retail trade .....	29,458	29,074	29,278	-1.4	-1.3	.7
Finance, insurance, and real estate .....	12,855	12,661	12,677	.2	-1.5	.1
Services .....	49,203	48,535	49,034	2.8	-1.4	1.0
Government .....	36,802	36,819	36,794	1.6	.0	-.1

<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-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted**

(1982=100)

Item	Annual average		Quarterly index										
	1989	1990 <sup>r</sup>	1988			1989				1990			
			II	III	IV	I	II	III	IV	I	II	III	IV <sup>r</sup>
<b>Business sector</b>													
Output per hour of all persons .....	112.6	111.9	112.9	113.6	113.1	113.0	113.0	112.6	111.9	111.7	111.9	112.1	112.1
Output .....	135.8	136.1	132.6	133.8	134.5	135.6	135.9	136.1	135.5	136.0	136.4	136.5	135.7
Hours .....	120.5	121.6	117.5	117.8	118.8	120.0	120.2	120.9	121.0	121.7	121.9	121.8	121.1
Compensation per hour .....	132.9	137.7	127.9	129.7	130.8	131.8	132.7	133.1	133.8	135.3	137.0	138.6	139.8
Real compensation per hour <sup>1</sup> .....	103.4	101.7	104.9	105.1	104.8	104.4	103.5	103.0	102.5	101.8	102.2	101.7	100.8
Unit labor costs .....	117.9	123.0	113.3	114.2	115.6	116.7	117.4	118.2	119.5	121.1	122.5	123.6	124.8
Unit nonlabor payments .....	133.1	136.9	126.4	128.8	130.2	130.9	133.3	133.9	134.5	135.5	137.0	137.8	137.3
Implicit price deflator .....	122.8	127.5	117.5	118.9	120.3	121.2	122.5	123.3	124.3	125.8	127.2	128.2	128.8
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	111.7	110.8	112.0	112.8	112.9	112.1	112.0	111.7	111.0	110.7	110.7	110.9	111.0
Output .....	136.7	137.0	133.4	134.8	136.0	136.4	136.8	137.1	136.3	136.8	137.2	137.4	136.5
Hours .....	122.3	123.6	119.1	119.5	120.5	121.7	122.2	122.7	122.8	123.7	123.9	123.9	123.0
Compensation per hour .....	131.9	136.5	127.1	128.8	130.0	131.0	131.6	132.1	132.9	134.2	135.8	137.4	138.7
Real compensation per hour <sup>1</sup> .....	102.7	100.8	104.3	104.3	104.2	103.8	102.7	102.3	101.9	101.0	101.3	100.8	100.1
Unit labor costs .....	118.1	123.2	113.5	114.2	115.2	116.9	117.5	118.3	119.7	121.3	122.7	123.9	125.0
Unit nonlabor payments .....	133.8	137.4	127.2	128.8	132.1	131.0	134.0	134.8	135.4	135.7	137.5	138.3	138.3
Implicit price deflator .....	123.0	127.7	117.8	118.8	120.5	121.4	122.7	123.5	124.7	125.8	127.3	128.4	129.2
<b>Manufacturing</b>													
Output per hour of all persons .....	138.0	142.1	132.8	135.2	136.0	137.0	138.3	137.9	138.8	140.5	141.5	143.4	142.8
Output .....	151.5	152.8	144.9	148.0	150.0	151.2	152.1	151.5	151.0	151.7	153.3	154.7	151.4
Hours .....	109.8	107.5	109.1	109.5	110.3	110.4	110.0	109.9	108.8	108.0	108.3	107.9	106.0
Compensation per hour .....	127.7	131.9	122.1	123.6	125.0	126.7	127.1	128.2	128.9	129.7	131.2	132.5	134.0
Real compensation per hour <sup>1</sup> .....	99.4	97.4	100.2	100.1	100.2	100.3	99.1	99.2	98.8	97.8	97.8	97.2	96.6
Unit labor costs .....	92.6	92.8	91.9	91.4	91.9	92.5	91.9	92.9	92.9	92.3	92.7	92.4	93.8
<b>Durable goods</b>													
Output per hour of all persons .....	151.4	156.8	144.6	147.3	148.8	149.5	152.0	152.0	152.0	153.8	156.2	159.1	157.8
Output .....	167.5	168.6	159.4	163.4	166.6	167.5	168.6	167.9	166.2	166.8	169.8	171.6	166.0
Hours .....	110.7	107.5	110.2	111.0	112.0	112.0	110.9	110.5	109.3	108.5	108.7	107.9	105.2
Compensation per hour .....	126.4	130.4	120.5	121.7	123.4	125.3	125.7	127.0	127.6	128.1	129.5	131.0	132.6
Real compensation per hour <sup>1</sup> .....	98.4	96.3	98.8	98.6	98.9	99.2	98.1	98.3	97.8	96.4	96.6	96.1	95.6
Unit labor costs .....	83.5	83.1	83.3	82.6	83.0	83.8	82.7	83.6	84.0	83.3	82.9	82.3	84.0
<b>Nondurable goods</b>													
Output per hour of all persons .....	119.8	122.6	116.9	118.7	118.6	119.8	119.6	119.0	121.1	122.6	121.8	122.5	123.1
Output .....	130.0	131.8	125.7	127.4	128.0	129.5	130.1	129.7	130.9	131.6	131.4	132.1	131.8
Hours .....	108.5	107.5	107.5	107.4	107.9	108.1	108.7	109.0	108.1	107.4	107.9	107.9	107.1
Compensation per hour .....	129.6	134.5	124.6	126.3	127.4	128.5	129.1	130.0	131.1	132.2	134.0	135.1	136.6
Real compensation per hour <sup>1</sup> .....	100.9	99.3	102.2	102.3	102.1	101.8	100.7	100.6	100.5	99.6	99.9	99.1	98.5
Unit labor costs .....	108.2	109.8	106.6	106.4	107.4	107.3	107.9	109.2	108.3	107.9	109.9	110.3	111.0
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	111.6	110.5	113.6	113.4	113.0	111.9	111.6	111.8	110.5	110.1	110.6	110.3	( <sup>2</sup> )
Output .....	136.4	136.3	134.6	135.4	136.3	136.2	136.4	137.1	135.9	136.0	136.9	136.6	( <sup>2</sup> )
Hours .....	122.2	123.3	118.5	119.4	120.6	121.7	122.2	122.7	123.0	123.5	123.8	123.9	( <sup>2</sup> )
Compensation per hour .....	129.3	133.6	124.4	125.9	126.9	128.3	128.8	129.3	130.0	130.9	133.0	134.4	( <sup>2</sup> )
Real compensation per hour <sup>1</sup> .....	100.6	98.6	102.1	102.0	101.7	101.6	100.5	100.1	99.6	98.5	99.2	98.6	( <sup>2</sup> )
Total unit costs .....	114.7	120.0	108.2	109.7	110.9	112.7	114.1	115.0	117.0	118.1	119.1	120.9	( <sup>2</sup> )
Unit labor costs .....	115.8	120.9	109.6	111.1	112.3	114.6	115.4	115.7	117.6	118.9	120.2	121.9	( <sup>2</sup> )
Unit nonlabor costs .....	111.8	117.9	104.6	106.0	107.3	108.0	110.6	113.3	115.2	116.2	116.2	118.6	( <sup>2</sup> )
Unit profits .....	157.9	145.8	178.1	171.4	179.1	162.3	162.9	159.3	147.2	147.6	153.9	143.1	( <sup>2</sup> )
Implicit price deflator .....	117.4	121.7	112.6	113.5	115.2	115.9	117.1	117.8	118.9	120.0	121.3	122.3	( <sup>2</sup> )

<sup>1</sup> Measures of real hourly compensation have been revised to reflect the most recent information on seasonal variation in the Consumer Price Index for All Urban Consumers.

<sup>2</sup> Not available.  
r = revised.

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

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	III 1989	IV 1989	I 1990	II 1990	III 1990	IV 1990 <sup>1</sup>	III 1989	IV 1989	I 1990	II 1990	III 1990	IV 1990 <sup>1</sup>
<b>Business sector</b>												
Output per hour of all persons .....	-1.6	-2.3	-0.9	0.6	0.9	-0.3	-0.9	-1.1	-1.2	-1.0	-0.4	0.1
Output .....	.6	-1.8	1.4	1.2	.5	-2.4	1.7	.8	.3	.3	.3	.2
Hours .....	2.2	.4	2.3	.5	-.4	-2.2	2.7	1.9	1.4	1.4	.7	.0
Compensation per hour .....	1.1	2.2	4.5	5.4	4.6	3.6	2.6	2.3	2.6	3.3	4.2	4.5
Real compensation per hour <sup>1</sup> .....	-2.0	-1.8	-2.7	1.4	-2.1	-3.2	-2.0	-2.2	-2.5	-1.3	-1.3	-1.7
Unit labor costs .....	2.8	4.6	5.4	4.7	3.7	3.8	3.5	3.4	3.8	4.4	4.6	4.4
Unit nonlabor payments .....	1.8	1.7	3.1	4.5	2.4	-1.6	4.0	3.2	3.6	2.8	2.9	2.1
Implicit price deflator .....	2.5	3.5	4.6	4.6	3.2	1.9	3.7	3.4	3.7	3.8	4.0	3.6
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	-1.0	-2.5	-1.3	.3	.6	.3	-1.0	-1.6	-1.3	-1.1	-.7	.0
Output .....	.6	-2.1	1.4	1.2	.4	-2.6	1.7	.3	.3	.3	.2	.1
Hours .....	1.6	.5	2.8	.9	-.2	-2.8	2.7	1.9	1.6	1.4	1.0	.1
Compensation per hour .....	1.6	2.3	3.9	5.0	4.7	4.0	2.6	2.2	2.4	3.2	4.0	4.4
Real compensation per hour <sup>1</sup> .....	-1.5	-1.6	-3.2	1.0	-2.0	-2.8	-2.0	-2.2	-2.6	-1.3	-1.5	-1.8
Unit labor costs .....	2.6	5.0	5.3	4.7	4.1	3.7	3.6	3.9	3.7	4.4	4.8	4.4
Unit nonlabor payments .....	2.6	1.7	1.0	5.2	2.6	.1	4.7	2.5	3.6	2.6	2.6	2.2
Implicit price deflator .....	2.6	3.9	3.8	4.8	3.6	2.4	3.9	3.4	3.7	3.8	4.0	3.7
<b>Manufacturing</b>												
Output per hour of all persons .....	-1.0	2.5	4.9	3.1	5.4	-1.6	2.0	2.0	2.6	2.4	4.0	2.9
Output .....	-1.4	-1.3	1.8	4.3	3.5	-8.3	2.4	.7	.4	.8	2.1	.2
Hours .....	-.4	-3.7	-2.9	1.2	-1.7	-6.8	.4	-1.3	-2.1	-1.5	-1.8	-2.6
Compensation per hour .....	3.6	2.4	2.3	4.7	4.0	4.7	3.7	3.1	2.4	3.2	3.3	3.9
Real compensation per hour <sup>1</sup> .....	.4	-1.6	-4.8	.8	-2.7	-2.1	-.9	-1.4	-2.7	-1.3	-2.1	-2.2
Unit labor costs .....	4.6	-.1	-2.5	1.6	-1.3	6.4	1.7	1.1	-.2	.9	-.6	1.0
<b>Durable goods</b>												
Output per hour of all persons .....	-.2	.0	4.8	6.6	7.5	-3.2	3.2	2.1	2.8	2.7	4.7	3.8
Output .....	-1.7	-4.1	1.6	7.3	4.3	-12.4	2.7	-.2	-.4	.7	2.2	-.1
Hours .....	-1.5	-4.1	-3.1	.7	-3.0	-9.5	-.4	-2.3	-3.1	-2.0	-2.4	-3.8
Compensation per hour .....	4.3	1.8	1.5	4.4	4.6	5.0	4.4	3.4	2.2	3.0	3.1	3.9
Real compensation per hour <sup>1</sup> .....	1.1	-2.1	-5.5	.5	-2.1	-1.8	-.3	-1.1	-2.8	-1.5	-2.3	-2.2
Unit labor costs .....	4.5	1.8	-3.1	-2.0	-2.7	8.6	1.1	1.2	-.6	.3	-1.5	.1
<b>Nondurable goods</b>												
Output per hour of all persons .....	-2.1	7.1	5.2	-2.4	2.2	2.0	.3	2.1	2.3	1.9	2.9	1.7
Output .....	-1.0	3.7	2.3	-.6	2.1	-.9	1.8	2.3	1.7	1.1	1.9	.7
Hours .....	1.1	-3.2	-2.7	1.8	.0	-2.8	1.5	.2	-.7	-.8	-1.1	-1.0
Compensation per hour .....	2.6	3.4	3.6	5.4	3.3	4.7	2.9	2.9	2.9	3.7	3.9	4.2
Real compensation per hour <sup>1</sup> .....	-.6	-.5	-3.5	1.4	-3.3	-2.1	-1.7	-1.6	-2.2	-.8	-1.5	-1.9
Unit labor costs .....	4.8	-3.4	-1.5	8.0	1.1	2.7	2.6	.8	.5	1.9	1.0	2.5
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	.6	-4.6	-1.5	1.9	-1.0	( <sup>2</sup> )	-1.4	-2.2	-1.7	-1.0	-1.3	( <sup>2</sup> )
Output .....	2.1	-3.6	.2	2.8	-.8	( <sup>2</sup> )	1.3	-.3	-.2	.4	-.4	( <sup>2</sup> )
Hours .....	1.5	1.1	1.8	.9	.2	( <sup>2</sup> )	2.7	2.0	1.5	1.3	1.0	( <sup>2</sup> )
Compensation per hour .....	1.6	1.9	2.8	6.6	4.4	( <sup>2</sup> )	2.7	2.5	2.0	3.2	3.9	( <sup>2</sup> )
Real compensation per hour <sup>1</sup> .....	-1.5	-2.0	-4.3	2.6	-2.3	( <sup>2</sup> )	-1.9	-2.0	-3.0	-1.3	-1.5	( <sup>2</sup> )
Total unit costs .....	3.5	6.9	4.1	3.4	6.3	( <sup>2</sup> )	4.9	5.5	4.8	4.4	5.1	( <sup>2</sup> )
Unit labor costs .....	1.0	6.9	4.4	4.6	5.5	( <sup>2</sup> )	4.1	4.8	3.8	4.2	5.3	( <sup>2</sup> )
Unit nonlabor costs .....	10.2	6.9	3.3	.2	8.3	( <sup>2</sup> )	6.9	7.4	7.6	5.1	4.6	( <sup>2</sup> )
Unit profits .....	-8.5	-27.1	1.2	18.2	-25.3	( <sup>2</sup> )	-7.0	-17.8	-9.0	-5.5	-10.2	( <sup>2</sup> )
Implicit price deflator .....	2.4	3.6	3.9	4.5	3.4	( <sup>2</sup> )	3.8	3.2	3.6	3.6	3.8	( <sup>2</sup> )

<sup>1</sup> Measures of real hourly compensation have been revised to reflect the most recent information on seasonal variation in the Consumer Price Index for All Urban Consumers.

<sup>2</sup> Not available.  
(<sup>2</sup>) = revised.

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

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Alabama</b> .....	1,855.7	1,926.7	1,873.5	120.9	124.1	122.6	8.5	6.4	6.5
Birmingham .....	431.3	448.9	435.8	21.6	22.6	21.5	5.0	5.0	4.9
Huntsville .....	131.7	136.0	132.5	6.6	6.0	5.9	5.0	4.4	4.5
Mobile .....	204.1	217.9	208.1	14.2	13.6	12.3	7.0	6.3	5.9
Montgomery .....	134.3	140.0	136.6	8.0	7.8	7.5	6.0	5.6	5.5
Tuscaloosa .....	71.9	74.3	73.1	3.1	3.3	3.2	4.4	4.4	4.4
<b>Alaska</b> .....	248.0	253.8	250.6	20.7	19.1	22.0	8.4	7.5	8.8
<b>Arizona</b> .....	1,683.9	1,736.7	1,728.7	77.3	94.0	90.7	4.6	5.4	5.2
Phoenix .....	1,049.6	1,077.7	1,083.2	40.7	48.7	47.7	3.9	4.5	4.4
Tucson .....	306.5	315.0	314.7	11.9	13.0	12.2	3.9	4.1	3.9
<b>Arkansas</b> .....	1,135.3	1,123.8	1,123.7	77.2	80.0	92.0	6.8	7.1	8.2
Fayetteville-Springdale .....	63.8	64.1	83.2	1.9	2.3	2.4	3.0	3.6	3.9
Fort Smith .....	93.3	93.0	92.3	8.4	9.0	8.6	9.0	9.6	9.4
Little Rock-North Little Rock .....	273.2	269.5	268.6	14.7	15.5	16.3	5.4	5.7	6.1
Pine Bluff .....	37.5	36.8	36.5	2.6	3.3	3.6	6.8	8.9	9.8
<b>California<sup>1</sup></b> .....	14,441.6	14,580.2	14,602.7	794.2	958.4	1,079.6	5.5	6.6	7.4
Anaheim-Santa Ana .....	1,374.8	1,370.9	1,373.4	40.1	55.9	64.6	2.9	4.1	4.7
Bakersfield .....	225.8	232.4	232.9	23.4	28.1	29.5	10.4	12.1	12.7
Fresno .....	294.2	323.9	318.5	32.1	38.7	43.8	10.9	12.0	13.7
Los Angeles-Long Beach <sup>1</sup> .....	4,373.0	4,361.0	4,365.0	257.0	271.0	286.0	5.9	6.2	6.8
Modesto .....	156.3	163.3	163.7	18.0	22.5	25.6	11.5	13.8	15.6
Oakland .....	1,085.1	1,092.2	1,095.6	43.6	51.8	60.4	4.0	4.7	5.5
Oxnard-Ventura .....	367.6	370.1	370.3	18.6	25.5	27.8	5.1	6.9	7.5
Riverside-San Bernardino .....	1,043.9	1,089.4	1,103.7	55.8	86.3	97.8	5.3	7.9	8.9
Sacramento .....	730.5	738.4	743.4	35.5	44.9	52.0	4.9	6.1	7.0
San Diego .....	1,162.4	1,161.4	1,170.7	44.4	63.0	73.2	3.8	5.4	6.3
San Francisco .....	873.4	868.3	871.5	28.1	31.6	38.2	3.2	3.6	4.4
San Jose .....	816.2	799.7	807.5	30.1	38.3	45.1	3.7	4.8	5.6
Santa Barbara-Santa Maria-Lompoc .....	177.4	177.6	179.1	8.1	9.9	12.2	4.6	5.6	6.8
Santa Rosa-Petaluma .....	203.9	213.4	215.7	9.0	11.0	13.1	4.4	5.2	6.1
Stockton .....	189.8	194.8	195.7	19.3	24.6	27.3	10.2	12.6	13.9
Vallejo-Fairfield-Napa .....	194.6	198.9	200.0	10.2	12.9	14.8	5.2	6.5	7.4
<b>Colorado</b> .....	1,684.6	1,797.7	1,765.9	89.2	82.7	102.7	5.3	4.6	5.8
Boulder-Longmont .....	133.8	143.6	138.7	5.3	5.3	5.6	3.9	3.7	4.1
Denver .....	861.1	917.8	901.8	42.1	39.2	46.7	4.9	4.3	5.2
<b>Connecticut</b> .....	1,758.7	1,768.9	1,760.5	88.7	83.9	98.0	5.0	4.7	5.6
Bridgeport-Milford .....	230.3	228.8	227.7	14.5	12.8	14.8	6.3	5.6	6.5
Hartford .....	428.8	430.6	432.4	18.9	18.7	21.5	4.4	4.3	5.0
New Britain .....	73.1	73.2	73.0	4.6	4.3	5.3	6.3	5.9	7.2
New Haven-Meriden .....	282.0	285.7	284.0	13.2	12.8	14.6	4.7	4.5	5.1
Stamford .....	112.0	113.8	112.5	3.6	3.7	4.3	3.2	3.3	3.8
Waterbury .....	102.0	101.7	101.3	7.8	7.1	8.7	7.5	6.9	8.6
<b>Delaware</b> .....	361.4	364.8	362.2	18.9	22.0	24.3	5.2	6.0	6.7
Wilmington .....	316.5	315.0	314.0	19.0	19.0	20.8	6.0	6.0	6.6
<b>District of Columbia</b> .....	303.2	294.6	287.7	17.0	19.4	21.9	5.6	6.6	7.6
Washington .....	2,193.2	2,189.8	2,175.9	63.2	87.9	96.3	2.9	4.0	4.4
<b>Florida<sup>1</sup></b> .....	6,183.6	6,389.1	6,322.9	360.7	351.6	393.8	5.8	5.5	6.2
Daytona Beach .....	153.6	159.4	157.8	9.1	9.2	10.5	5.9	5.8	6.6
Fort Lauderdale-Hollywood-Pompano Beach .....	642.6	662.3	656.0	33.6	34.4	38.3	5.2	5.2	5.8
Fort Myers-Cape Coral .....	149.6	157.8	156.8	6.5	6.7	7.8	4.3	4.2	5.0
Gainesville .....	104.6	108.6	106.7	3.6	3.7	4.5	3.4	3.4	4.2
Jacksonville .....	444.1	458.7	450.5	26.8	24.3	27.5	6.0	5.3	6.1
Lakeland-Winter Haven .....	179.7	182.7	182.6	12.6	14.0	14.6	7.0	7.7	8.0
Melbourne-Titusville-Palm Bay .....	189.0	192.8	191.9	10.0	10.2	12.1	5.3	5.3	6.3
Miami-Hialeah .....	930.6	949.3	942.6	59.7	58.9	64.4	6.4	6.2	6.8
Orlando .....	613.6	642.0	627.4	33.0	33.0	36.2	5.4	5.1	5.8
Pensacola .....	144.3	147.9	144.9	9.0	8.5	9.0	6.2	5.7	6.2
Sarasota .....	121.7	127.6	126.4	4.9	4.5	5.8	4.1	3.5	4.6
Tallahassee .....	130.6	137.5	133.9	5.7	5.1	5.8	4.3	3.7	4.3
Tampa-St. Petersburg-Clearwater .....	991.0	1,021.0	1,012.7	51.7	49.7	57.7	5.2	4.9	5.7
West Palm Beach-Boca Raton-Delray Beach .....	426.4	439.2	433.5	26.3	23.8	26.7	6.2	5.4	6.2

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Georgia</b> .....	3,191.3	3,248.4	3,211.6	168.1	203.0	208.2	5.3	8.2	6.5
Albany .....	53.8	55.3	55.1	3.5	3.7	3.8	6.6	6.7	6.9
Athens .....	77.0	77.9	76.8	3.3	4.1	4.2	4.3	5.3	5.5
Atlanta .....	1,510.9	1,539.3	1,522.2	72.1	88.8	89.0	4.8	5.8	5.8
Augusta .....	194.2	201.2	199.4	8.1	10.2	10.9	4.2	5.1	5.5
Columbus .....	99.3	101.4	100.9	5.5	8.3	6.7	5.5	6.2	6.7
Macon-Warner Robins .....	133.3	136.9	134.9	6.4	7.0	7.3	4.8	5.1	5.4
Savannah .....	115.7	119.8	119.2	6.1	8.8	6.6	5.3	5.6	5.6
<b>Hawaii</b> .....	528.0	544.3	545.3	16.0	12.7	15.3	3.0	2.3	2.8
Honolulu .....	385.4	394.2	394.3	11.0	8.5	9.9	2.9	2.1	2.5
<b>Idaho</b> .....	493.3	496.1	490.5	32.5	29.6	37.3	6.6	6.0	7.6
Boise City .....	118.0	120.4	119.5	5.1	5.2	5.8	4.3	4.3	4.9
<b>Illinois<sup>1</sup></b> .....	6,006.3	6,028.1	6,003.3	411.6	355.7	438.8	6.9	5.9	7.3
Aurora-Egin .....	189.3	193.2	192.4	12.2	11.4	14.5	6.4	5.9	7.5
Bloomington-Normal .....	75.3	75.6	75.8	3.5	3.2	3.6	4.6	4.2	4.8
Champaign-Urbana-Rantoul .....	90.6	94.7	90.9	4.4	3.9	4.5	4.9	4.2	4.9
Chicago .....	3,291.3	3,285.4	3,273.0	203.1	184.0	219.1	6.2	5.6	6.7
Davenport-Rock Island-Moline .....	181.8	183.3	181.2	12.3	11.9	12.6	6.8	8.5	7.0
Decatur .....	59.7	60.5	59.5	4.9	3.8	5.1	8.2	6.3	8.5
Joliet .....	207.7	211.1	208.5	16.2	13.4	17.3	7.8	8.3	8.3
Kankakee .....	47.1	47.7	47.8	4.0	3.3	4.2	8.6	6.9	8.8
Lake County .....	299.9	308.5	304.2	13.4	12.6	15.6	4.5	4.1	5.1
Peoria .....	165.7	166.2	164.7	11.3	9.0	11.4	6.8	5.4	6.9
Rockford .....	158.3	156.4	155.0	14.1	9.3	11.3	8.9	6.0	7.3
Springfield .....	114.6	116.0	114.7	6.2	5.2	6.2	5.4	4.5	5.4
<b>Indiana</b> .....	2,824.3	2,817.1	2,779.0	183.0	141.7	187.4	5.8	5.0	6.7
Anderson .....	59.3	60.0	59.4	4.2	4.1	5.4	7.0	6.8	9.1
Bloomington .....	61.5	60.3	59.9	2.1	1.7	2.4	3.4	2.8	4.0
Elkhart-Goshen .....	93.2	92.9	91.5	5.4	6.0	7.2	5.8	6.5	7.9
Evansville .....	143.4	143.2	139.4	8.3	6.1	8.0	5.8	4.3	5.7
Fort Wayne .....	205.2	202.8	197.6	13.2	10.5	14.4	6.5	5.2	7.3
Gary-Hammond .....	263.2	262.4	256.4	15.4	13.1	15.7	5.9	5.0	6.1
Indianapolis .....	666.3	674.9	679.4	28.7	29.7	38.7	4.3	4.4	5.7
Kokomo .....	46.4	46.4	46.1	2.9	3.0	4.2	6.2	6.4	9.0
Lafayette-West Lafayette .....	69.6	69.2	67.3	2.4	1.5	2.9	3.4	2.2	4.3
Muncie .....	60.8	60.9	58.8	3.6	2.8	3.8	6.0	4.7	6.4
South Bend-Mishawaka .....	130.9	130.9	128.4	7.2	6.0	8.0	5.5	4.5	6.3
Terre Haute .....	61.5	61.5	60.2	3.5	2.3	3.3	5.6	3.7	5.5
<b>Iowa</b> .....	1,486.7	1,494.1	1,495.1	72.0	65.5	81.3	4.8	4.4	5.4
Cedar Rapids .....	97.0	96.9	97.3	3.9	4.8	5.7	4.0	4.9	5.8
Des Moines .....	236.9	236.9	238.8	8.8	7.4	9.7	3.7	3.1	4.1
Dubuque .....	44.5	44.7	45.1	2.8	2.5	3.5	6.4	5.6	7.7
Iowa City .....	62.9	62.3	62.8	1.1	1.0	1.3	1.8	1.6	2.1
Sioux City .....	61.3	60.7	60.8	2.3	2.5	3.0	3.8	4.1	5.0
Waterloo-Cedar Falls .....	72.1	74.5	74.2	3.7	3.8	4.3	5.1	5.1	5.8
<b>Kansas</b> .....	1,267.4	1,301.6	1,300.5	59.2	60.7	72.7	4.7	4.7	5.6
Lawrence .....	42.7	45.0	43.9	1.5	1.6	2.0	3.8	3.6	4.6
Topeka .....	91.9	92.0	91.9	4.4	4.7	5.5	4.8	5.1	6.0
Wichita .....	253.7	260.0	261.9	11.4	11.2	13.3	4.5	4.3	5.1
<b>Kentucky</b> .....	1,733.5	1,759.4	1,728.2	111.9	96.4	124.3	6.5	5.5	7.2
Lexington-Fayette .....	193.5	193.4	188.4	6.8	6.5	7.9	3.5	3.4	4.2
Louisville .....	515.2	523.6	505.9	32.9	25.2	32.2	6.4	4.8	6.4
Owensboro .....	44.5	44.5	42.8	2.4	1.9	2.7	5.4	4.2	6.4
<b>Louisiana</b> .....	1,802.3	1,885.2	1,870.5	115.3	116.8	130.2	6.4	6.2	7.0
Alexandria .....	56.2	57.7	57.4	3.5	3.5	4.4	6.2	6.1	7.6
Baton Rouge .....	258.4	289.1	266.9	12.9	14.4	16.0	5.0	5.3	6.0
Houma-Thibodaux .....	65.3	70.6	68.8	3.9	4.4	4.5	6.0	6.3	6.5
Lafayette .....	97.5	107.1	105.1	5.0	4.7	5.6	5.1	4.4	5.3
Lake Charles .....	73.6	77.2	76.5	4.7	5.1	5.4	6.3	6.6	7.1
Monroe .....	66.0	69.3	67.9	3.7	4.5	4.8	5.7	6.5	7.1
New Orleans .....	558.5	581.8	573.1	30.4	30.2	31.1	5.4	5.2	5.4
Shreveport .....	150.1	154.9	152.7	13.1	11.2	10.9	8.7	7.2	7.2
<b>Maine</b> .....	619.7	638.1	629.7	32.4	42.1	54.8	5.2	6.6	8.7
Lewiston-Auburn .....	42.8	43.7	43.3	2.8	3.8	4.7	6.5	8.8	10.9
Portland .....	132.0	133.3	131.0	4.1	6.0	8.0	3.1	4.5	6.1

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Maryland</b> .....	2,510.9	2,489.0	2,476.2	108.2	150.8	152.1	4.3	6.1	6.1
Baltimore .....	1,204.0	1,195.0	1,183.1	56.7	82.1	76.3	4.7	6.9	6.4
<b>Massachusetts</b> <sup>1</sup> .....	3,121.9	3,114.8	3,076.1	154.7	218.0	277.8	5.0	7.0	9.0
Boston .....	1,542.9	1,533.7	1,506.5	62.8	89.2	112.3	4.1	5.8	7.5
Brockton .....	98.8	99.4	98.4	5.8	8.5	10.7	5.9	8.5	10.8
Fall River .....	77.2	76.5	77.3	7.1	8.3	11.3	9.2	10.9	14.6
Fitchburg-Leominster .....	47.3	45.2	44.7	3.0	4.4	5.4	6.4	9.7	12.0
Lawrence-Haverhill .....	184.3	185.3	183.8	11.3	15.8	19.0	6.1	8.5	10.3
Lowell .....	150.2	147.8	146.5	8.0	10.9	13.2	5.3	7.4	9.0
New Bedford .....	84.8	85.5	88.6	7.2	9.3	12.7	8.5	10.8	14.6
Pittsfield .....	40.9	41.5	41.0	2.2	3.4	4.5	5.3	8.2	10.9
Springfield .....	253.8	256.2	255.4	12.0	17.9	22.8	4.7	7.0	8.9
Worcester .....	218.1	214.8	212.3	11.0	15.7	20.1	5.1	7.3	9.4
<b>Michigan</b> <sup>1</sup> .....	4,590.8	4,564.8	4,512.3	432.7	327.4	388.9	9.4	7.2	8.6
Ann Arbor .....	162.4	167.5	165.4	10.1	6.2	8.9	6.2	3.7	5.4
Battle Creek .....	65.6	64.9	63.8	6.0	4.3	4.8	9.2	6.6	7.5
Benton Harbor .....	78.6	76.9	76.1	7.3	5.1	5.9	9.3	8.6	7.8
Detroit .....	2,163.8	2,149.6	2,114.3	189.1	153.4	184.4	8.7	7.1	8.7
Flint .....	190.2	181.8	183.7	33.6	15.1	19.6	17.7	8.3	10.7
Grand Rapids .....	376.1	378.2	372.3	25.3	22.2	23.8	6.7	5.9	6.4
Jackson .....	65.4	65.6	64.9	5.5	5.1	5.9	8.5	7.7	9.1
Kalamazoo .....	118.7	120.8	118.4	6.2	5.8	5.9	5.2	4.6	5.0
Lansing-East Lansing .....	246.9	239.6	238.4	24.2	14.7	16.7	9.8	6.1	7.0
Muskegon .....	67.7	67.1	66.9	6.1	5.9	6.7	9.0	8.8	10.0
Saginaw-Bay City-Midland .....	187.2	186.7	184.2	24.9	12.0	13.8	13.3	6.4	7.5
<b>Minnesota</b> .....	2,355.3	2,425.4	2,422.0	116.4	120.7	130.6	4.9	5.0	5.4
Duluth .....	110.7	113.9	114.6	7.0	6.5	7.6	6.3	5.7	6.6
Minneapolis-St. Paul .....	1,385.1	1,417.8	1,411.8	55.1	58.6	61.7	4.0	4.1	4.4
Rochester .....	62.9	65.9	66.4	1.9	2.1	2.1	3.1	3.2	3.1
St. Cloud .....	101.6	101.8	104.7	6.4	6.3	7.0	6.3	6.2	6.7
<b>Mississippi</b> .....	1,180.2	1,194.1	1,178.6	94.4	96.3	105.3	8.0	8.1	8.9
Jackson .....	200.3	203.2	197.7	10.7	11.2	12.0	5.4	5.5	6.1
<b>Missouri</b> .....	2,574.1	2,647.2	2,644.6	173.8	160.1	184.2	6.8	6.0	7.0
Kansas City .....	836.4	855.8	853.4	50.3	41.8	53.3	6.0	4.9	6.2
St. Louis LMA .....	1,252.9	1,276.2	1,264.8	81.3	75.7	89.2	6.5	5.9	7.1
Springfield .....	126.7	132.4	131.6	6.3	6.3	7.0	5.0	4.7	5.3
<b>Montana</b> .....	401.2	394.9	398.1	23.7	26.6	29.4	5.9	6.7	7.4
<b>Nebraska</b> .....	824.0	840.3	839.1	23.9	16.2	22.6	2.9	1.9	2.7
Lincoln .....	128.6	131.6	130.2	2.6	2.2	2.7	2.0	1.8	2.0
Omaha .....	339.0	344.9	345.0	10.5	7.7	10.6	3.1	2.2	3.1
<b>Nevada</b> .....	608.2	640.6	641.2	29.6	37.0	39.4	4.9	5.8	6.1
Las Vegas .....	372.3	397.9	399.7	16.1	22.8	23.2	4.3	5.7	5.8
Reno .....	134.7	138.3	137.1	7.3	7.9	8.9	5.4	5.7	6.5
<b>New Hampshire</b> .....	622.3	639.2	640.6	28.9	40.6	46.8	4.6	6.4	7.3
Manchester .....	88.8	89.5	91.4	3.9	5.5	6.1	4.4	6.1	6.6
Nashua .....	100.5	101.2	101.3	4.4	6.1	7.1	4.3	6.0	7.0
Portsmouth-Dover-Rochester .....	135.7	143.4	141.3	5.8	7.2	8.6	4.1	5.0	6.2
<b>New Jersey</b> <sup>1</sup> .....	3,980.1	4,033.9	3,990.0	207.3	227.4	285.2	5.2	5.6	7.1
Atlantic City .....	173.5	182.3	179.3	13.5	15.5	19.4	7.8	8.5	10.8
Bergen-Passaic .....	704.1	702.6	693.4	33.8	35.9	44.7	4.8	5.1	6.4
Jersey City .....	271.4	275.9	269.2	21.6	22.4	26.8	8.0	8.1	10.0
Middlesex-Somerset-Hunterdon .....	582.6	592.5	585.3	21.3	24.7	32.4	3.7	4.2	5.5
Monmouth-Ocean .....	475.2	483.0	477.4	24.4	27.4	35.8	5.1	5.7	7.5
Newark .....	944.1	950.5	942.6	49.7	55.6	68.0	5.3	5.8	7.2
Trenton .....	173.7	175.3	175.0	7.3	8.1	10.7	4.2	4.6	6.1
Vineland-Millville-Bridgeton .....	60.7	62.6	62.2	5.8	6.3	7.7	9.5	10.0	12.3
<b>New Mexico</b> .....	682.1	705.4	691.7	38.7	45.9	49.5	5.7	6.5	7.2
Albuquerque .....	256.5	267.2	262.0	10.3	14.6	14.5	4.0	5.5	5.5
Las Cruces .....	56.7	60.1	57.5	3.3	4.0	4.4	5.9	6.6	7.7
Santa Fe .....	68.5	70.0	69.7	2.7	2.4	2.9	4.0	3.4	4.2

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		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,741.1	8,564.2	8,538.8	478.2	465.9	605.5	5.5	5.4	7.1
Albany-Schenectady-Troy .....	440.3	432.8	433.3	18.1	19.0	27.0	4.1	4.4	6.2
Binghamton .....	124.5	119.7	119.8	5.6	5.7	8.2	4.5	4.8	6.8
Buffalo .....	459.1	451.4	452.0	24.8	24.0	34.5	5.4	5.3	7.6
Elmira .....	44.9	42.7	42.6	2.1	2.2	3.2	4.7	5.1	7.5
Glens Falls .....	52.7	50.7	51.4	3.5	4.0	5.7	6.7	7.9	11.1
Nassau-Suffolk .....	1,410.6	1,360.5	1,343.9	49.5	58.0	77.0	3.5	4.3	5.7
New York .....	4,085.8	4,017.0	4,013.9	261.3	238.5	284.4	6.4	5.9	7.1
New York City <sup>1</sup> .....	3,414.0	3,367.0	3,367.0	240.0	214.0	249.0	7.0	6.3	7.4
Orange County .....	136.4	130.7	131.3	6.6	6.9	10.0	4.8	5.3	7.6
Poughkeepsie .....	130.1	126.3	126.1	3.8	4.7	6.9	3.0	3.7	5.5
Rochester .....	511.0	497.8	496.0	21.3	21.0	29.0	4.2	4.2	5.9
Syracuse .....	325.8	321.3	320.7	14.7	16.1	22.9	4.5	5.0	7.1
Utica-Rome .....	137.2	134.0	133.5	7.4	7.7	11.6	5.4	5.8	8.7
<b>North Carolina<sup>1</sup></b> .....	3,331.8	3,395.8	3,343.8	152.5	174.0	202.0	4.6	5.1	6.0
Asheville .....	89.8	92.4	90.8	3.7	3.8	5.2	4.1	4.1	5.7
Charlotte-Gastonia-Rock Hill .....	628.9	649.5	637.8	23.4	28.1	30.8	3.7	4.3	4.8
Greensboro-Winston-Salem-High Point .....	514.2	518.0	512.6	20.8	22.6	26.1	4.0	4.4	5.1
Raleigh-Durham .....	406.7	420.0	412.1	10.9	12.0	15.6	2.7	2.9	3.8
<b>North Dakota</b> .....	319.1	316.8	312.3	16.2	12.2	14.0	5.1	3.8	4.5
Bismarck .....	46.3	45.8	46.4	2.4	1.8	2.2	5.2	3.9	4.8
Fargo-Moorhead .....	87.1	89.5	88.6	3.0	2.5	3.3	3.4	2.8	3.7
Grand Forks .....	35.7	35.9	34.7	1.5	1.1	1.1	4.3	3.1	3.2
<b>Ohio<sup>1</sup></b> .....	5,391.3	5,483.8	5,357.1	411.9	315.1	389.1	7.6	5.7	7.3
Akron .....	326.6	339.2	325.8	23.4	18.1	21.7	7.2	5.3	6.6
Canton .....	192.8	195.3	190.5	15.1	12.2	14.1	7.8	6.2	7.4
Cincinnati .....	775.4	795.2	772.1	39.0	30.2	38.4	5.0	3.8	5.0
Cleveland .....	945.6	960.9	934.0	57.2	45.5	55.4	6.0	4.7	5.9
Columbus .....	732.0	751.7	728.8	43.0	31.9	37.0	5.9	4.2	5.1
Dayton-Springfield .....	477.4	480.9	468.4	32.2	24.9	29.6	6.8	5.2	6.3
Toledo .....	317.0	318.4	310.1	32.8	26.1	31.7	10.4	8.2	10.2
Youngstown-Warren .....	221.9	224.3	219.5	25.3	16.0	19.6	11.4	7.1	8.9
<b>Oklahoma</b> .....	1,500.9	1,528.9	1,529.3	103.6	92.3	109.3	6.9	6.0	7.1
Enid .....	26.4	27.2	27.0	1.3	1.2	1.5	4.9	4.5	5.7
Lawton .....	47.0	47.3	47.2	2.4	2.3	3.0	5.1	4.9	6.4
Oklahoma City .....	494.6	490.6	492.2	36.6	31.4	36.5	7.4	6.4	7.4
Tulsa .....	336.1	344.0	341.4	20.3	18.5	21.3	6.0	5.4	6.2
<b>Oregon</b> .....	1,458.6	1,495.1	1,462.8	87.2	89.5	100.1	6.0	6.0	6.8
Eugene-Springfield .....	147.0	149.6	146.7	8.7	9.9	11.0	5.9	6.6	7.5
Portland .....	672.7	694.4	681.0	28.0	29.5	33.3	4.2	4.3	4.9
Salem .....	134.6	140.4	135.0	9.1	8.7	9.1	6.7	6.2	6.7
<b>Pennsylvania<sup>1</sup></b> .....	5,860.3	5,891.3	5,830.9	347.6	324.1	415.1	5.9	5.5	7.1
Allentown-Bethlehem .....	331.1	337.6	333.7	19.1	18.9	23.7	5.8	5.6	7.1
Altoona .....	61.1	61.8	61.8	5.4	5.0	6.1	8.8	8.2	9.8
Beaver County .....	60.3	59.4	59.5	5.5	4.6	6.1	9.1	7.7	10.2
Erie .....	133.7	135.9	134.6	9.1	7.6	9.3	6.8	5.6	6.9
Harrisburg-Lebanon-Carlisle .....	330.0	331.0	328.6	15.5	14.6	18.9	4.7	4.4	5.8
Johnstown .....	97.5	98.1	99.0	8.8	7.6	10.1	9.0	7.8	10.2
Lancaster .....	224.0	225.2	221.7	9.6	10.6	14.3	4.3	4.7	6.5
Philadelphia .....	2,422.7	2,449.8	2,421.6	114.3	117.4	147.0	4.7	4.8	6.1
Pittsburgh .....	981.2	992.6	978.1	56.9	47.4	61.9	5.8	4.8	6.3
Reading .....	175.7	175.5	173.5	9.2	9.6	12.7	5.2	5.5	7.3
Scranton-Wilkes-Barre .....	366.1	363.3	363.4	28.4	26.1	32.3	7.8	7.2	8.9
Sharon .....	50.7	52.2	51.8	3.2	2.5	3.7	6.2	4.8	7.1
State College .....	65.5	68.1	63.6	3.8	3.8	4.3	5.8	5.6	6.7
Williamsport .....	60.6	60.1	59.6	4.9	4.4	5.4	8.1	7.3	9.0
York .....	224.2	224.7	222.9	11.4	10.8	15.2	5.1	4.8	6.8
<b>Rhode Island</b> .....	513.0	513.6	517.0	33.3	33.4	43.3	6.5	6.5	8.4
Pawtucket-Woonsocket-Attleboro .....	166.7	164.5	164.3	11.5	12.4	15.5	6.9	7.6	9.5
Providence .....	337.2	338.7	342.4	20.8	20.9	27.2	6.2	6.2	8.0
<b>South Carolina</b> .....	1,680.1	1,720.4	1,707.8	78.7	94.1	101.5	4.7	5.5	5.9
Charleston .....	228.3	237.7	236.8	7.8	9.1	10.2	3.4	3.8	4.3
Columbia .....	237.9	243.0	241.4	8.1	8.9	9.8	3.4	3.7	4.0
Greenville-Spartanburg .....	334.8	344.6	337.6	12.1	15.6	16.2	3.6	4.5	4.8
<b>South Dakota</b> .....	351.3	355.5	349.9	15.5	11.3	14.0	4.4	3.2	4.0
Rapid City .....	39.2	39.7	39.1	1.8	1.2	1.7	4.7	2.9	4.4
Sioux Falls .....	75.2	76.6	75.0	2.6	2.3	2.5	3.4	3.0	3.3

See footnotes at end of table.



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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>	Jan. 1990	Dec. 1990	Jan. 1991 <sup>P</sup>
<b>Tennessee</b> .....	2,359.6	2,380.4	2,375.7	124.9	137.0	164.4	5.3	5.8	6.9
Chattanooga .....	209.6	208.9	211.1	9.7	11.0	12.7	4.6	5.3	6.0
Johnson City-Kingsport-Bristol .....	215.8	219.9	219.0	10.0	10.3	12.5	4.7	4.7	5.7
Knoxville .....	284.0	283.2	278.7	16.0	15.0	18.3	5.6	5.3	6.6
Memphis .....	464.6	478.1	470.3	20.1	23.5	26.0	4.3	4.9	5.5
Nashville .....	522.6	529.7	527.8	19.8	21.9	25.4	3.8	4.1	4.8
<b>Texas</b> <sup>1</sup> .....	8,320.6	8,521.5	8,421.8	480.6	556.7	582.9	5.8	6.5	8.9
Abilene .....	51.2	51.3	50.9	2.8	3.0	3.3	5.4	5.9	6.4
Amarillo .....	94.7	96.4	95.0	4.3	4.9	5.3	4.5	5.1	5.6
Austin .....	428.6	439.4	434.6	18.1	20.3	21.0	4.2	4.8	4.8
Beaumont-Port Arthur .....	161.5	168.8	167.1	11.3	12.1	12.3	7.0	7.2	7.4
Brazoria .....	85.6	88.1	88.7	4.8	5.2	5.2	5.6	5.9	6.0
Brownsville-Harlingen .....	102.5	107.3	106.8	10.9	14.5	15.0	10.7	13.5	14.0
Bryan-College Station .....	59.1	63.6	59.6	2.0	2.3	2.5	3.4	3.6	4.3
Corpus Christi .....	157.8	167.9	164.6	10.0	13.2	13.3	6.3	7.9	8.1
Dallas .....	1,421.4	1,438.6	1,424.2	64.5	77.8	83.0	4.5	5.4	5.8
El Paso .....	247.9	254.2	253.3	24.0	28.8	30.3	9.7	11.2	12.0
Fort Worth-Arlington .....	722.8	737.8	729.7	33.5	41.8	43.4	4.6	5.7	5.9
Galveston-Texas City .....	105.9	108.8	107.2	6.7	8.5	8.5	6.3	7.8	7.9
Houston .....	1,675.3	1,752.9	1,730.2	79.1	94.5	97.3	4.7	5.4	5.6
Killeen-Temple .....	95.8	96.3	95.1	6.1	7.5	7.4	6.3	7.8	7.8
Laredo .....	53.1	54.7	54.1	6.2	6.7	6.8	11.7	12.2	12.6
Longview-Marshall .....	78.9	79.2	79.2	5.2	5.7	6.5	6.6	7.1	8.2
Lubbock .....	113.2	116.8	113.7	4.9	5.5	6.0	4.3	4.7	5.3
McAllen-Edinburg-Mission .....	167.6	170.5	168.1	33.8	36.0	36.5	20.1	21.1	21.7
Midland .....	47.7	48.2	47.9	2.6	2.3	2.5	5.5	4.8	5.2
Odessa .....	51.5	51.5	51.1	3.2	2.8	3.0	6.2	5.4	5.9
San Angelo .....	43.6	43.7	43.4	2.3	2.1	2.4	5.3	4.8	5.6
San Antonio .....	600.7	606.0	598.4	36.1	43.3	44.1	6.0	7.1	7.4
Sherman-Denison .....	47.1	47.4	47.4	2.3	2.8	3.1	4.9	5.9	6.6
Texarkana .....	58.1	57.2	56.5	3.3	3.7	4.1	5.7	6.5	7.3
Tyler .....	73.2	75.0	74.7	4.0	5.1	5.4	5.4	6.8	7.2
Victoria .....	35.6	36.1	35.9	2.0	1.8	2.0	5.6	4.9	5.5
Waco .....	90.9	93.4	92.5	4.6	5.3	5.7	5.1	5.7	6.2
Wichita Falls .....	55.2	55.2	55.0	2.9	3.6	4.1	5.2	6.5	7.5
<b>Utah</b> .....	777.0	806.5	787.8	34.1	30.7	36.4	4.4	3.8	4.6
Provo-Orem .....	113.3	121.4	114.2	4.1	4.5	4.8	3.6	3.7	4.0
Salt Lake City-Ogden .....	504.0	520.8	511.8	20.7	18.5	21.9	4.1	3.5	4.3
<b>Vermont</b> .....	309.7	307.0	309.4	13.9	20.4	24.5	4.5	6.6	7.9
Burlington .....	76.9	78.5	77.5	2.3	3.7	4.1	3.0	4.7	5.3
<b>Virginia</b> .....	3,132.5	3,222.8	3,223.7	138.1	157.9	188.4	4.4	4.9	5.8
Charlottesville .....	70.0	73.2	72.5	2.1	2.3	3.0	2.9	3.2	4.1
Danville .....	53.3	53.7	53.7	4.3	4.8	5.4	8.0	9.0	10.1
Lynchburg .....	74.8	74.7	75.5	3.7	3.7	4.3	4.9	5.0	5.7
Norfolk-Virginia Beach-Newport News .....	610.9	626.4	622.1	33.2	31.5	37.7	5.4	5.0	6.1
Richmond-Petersburg .....	448.8	468.1	467.8	15.4	20.1	23.0	3.4	4.3	4.9
Roanoke .....	121.4	125.5	126.0	4.0	4.3	4.9	3.3	3.4	3.9
<b>Washington</b> .....	2,479.9	2,533.5	2,484.0	151.6	142.5	172.3	6.1	5.6	6.9
Seattle .....	1,128.6	1,150.1	1,121.7	45.1	44.7	52.5	4.0	3.9	4.7
<b>West Virginia</b> .....	768.9	777.7	771.8	70.5	73.8	81.9	9.2	9.5	10.8
Charleston .....	118.8	120.3	119.4	8.3	8.2	9.6	7.0	6.8	8.0
Huntington-Ashland .....	132.1	133.3	131.5	10.7	9.3	11.7	8.1	7.0	8.9
Parkersburg-Marietta .....	72.7	73.0	71.8	5.4	5.1	6.0	7.4	7.1	8.4
Wheeling .....	72.1	71.9	71.4	5.7	4.5	6.1	7.9	6.2	8.6
<b>Wisconsin</b> .....	2,547.6	2,597.8	2,567.6	143.4	114.9	138.1	5.6	4.4	5.4
Appleton-Oshkosh-Neenah .....	171.1	174.2	172.5	8.8	7.6	8.4	5.2	4.4	4.9
Eau Claire .....	70.7	71.5	69.6	4.2	4.1	4.2	6.0	5.7	6.0
Green Bay .....	109.1	112.4	111.3	5.2	4.4	5.2	4.8	3.9	4.7
Janesville-Beloit .....	74.5	73.9	73.3	8.8	3.2	7.1	11.8	4.4	9.7
Kenosha .....	53.4	54.9	54.5	5.0	2.8	3.9	9.4	5.1	7.2
La Crosse .....	52.4	52.7	51.4	2.6	1.8	2.2	4.9	3.5	4.3
Madison .....	218.2	229.7	226.0	6.9	8.0	6.9	3.1	2.6	3.1
Milwaukee .....	756.9	759.2	754.2	32.4	27.3	30.9	4.3	3.6	4.1
Racine .....	89.5	89.8	89.8	5.3	4.1	5.9	5.9	4.6	6.5
Sheboygan .....	57.7	59.0	58.2	2.9	3.6	3.2	5.0	6.1	5.6
Wausau .....	63.9	63.9	64.1	3.6	2.8	3.6	5.6	4.4	5.7
<b>Wyoming</b> .....	240.0	245.7	240.3	15.4	15.4	18.4	6.4	6.3	7.7
Casper .....	31.6	32.5	31.7	2.2	2.1	2.6	6.8	6.5	8.2

<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 340,000 establishments employing over 40 million nonfarm wage and salary workers. The data relate to all workers, full or part time, who receive pay during the payroll period which includes the 12th day of the month.

## RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of differences in definitions and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which

have a differential effect on the levels and trends of the two series are as follows.

## Employment

*Coverage.* The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonfarm establishments.

*Multiple jobholding.* The household survey provides information on the work status of the population without duplication, since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment reports, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

*Unpaid absences from jobs.* The household survey includes among the employed all civilians who had jobs but were not at work during the survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or because they were taking time off for various other reasons, even if they were not paid by their employers for the time off. In the figures based on payroll reports, persons on leave paid for by the company are included, but not those on leave without pay for the entire payroll period.

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

## Hours of work

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

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

## Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to average earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see *Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey*, BLS Bulletin 2113.

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

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

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

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Economics and Statistics Service series and the treatment of dual jobholders, who are counted more than once if they work on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of their impact on differences in the levels and trends of the two series.

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of the Census from its censuses or sample surveys of manufacturing and business establishments. The major reasons for noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

*County Business Patterns.* Data in *County Business Patterns* (CBP), published by the Bureau of the Census, U.S. Department of Commerce, differ from BLS establishment statistics in the treatment of central administrative offices and auxiliary units. Differences may also arise because of industrial classification and reporting practices. In addition, CBP excludes interstate railroads and government, and coverage is incomplete for some of the nonprofit activities.

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

# Household Data (A tables)

## COLLECTION AND COVERAGE

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

These monthly surveys of the population are conducted through a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

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

Each month about 60,000 occupied units are eligible for interview. About 2,600 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 60,000 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

## CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those used since 1967 are as follows:

*Employed persons* are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise

operated by a member of the family; and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

Included in the total are employed citizens of foreign countries who are temporarily in the United States but not living on the premises of an embassy. Excluded are persons whose only activity consisted of work around the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

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

*Duration of unemployment* represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Measurements of mean and median duration are computed from a distribution of single weeks of unemployment.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The reasons for unemployment are divided into four major groups. (1) *Job losers* are persons whose employment ended involuntarily who immediately began looking for work, and persons on layoff. (2) *Job leavers* are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) *Reentrants* are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) *New entrants* are persons who never worked at a full-time job lasting 2 weeks or longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

*Jobseekers* are all unemployed persons who made specific

efforts to find a job sometime during the 4-week period preceding the survey week. Jobseekers do not include those persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point.

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

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

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

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

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

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

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

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

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

The class-of-worker breakdown specifies wage and salary workers subdivided into private and government workers; self-employed workers; and unpaid family workers. Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, or trade, or operate a farm. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by birth or marriage.

*Hours of work* statistics relate to the actual number of hours worked during the survey week. For example, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were paid for the holiday. For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job.

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

Data on employment "at work" differ from data on total employment because they exclude persons in the zero-hours-

worked category, "with a job but not at work." These are persons who were absent from their jobs for the entire week for such reasons as bad weather, vacation, illness, or involvement in a labor dispute.

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

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

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

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

*Hispanic origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin

may be of any race; thus they are included in both the white and black population groups.

*Vietnam-era veterans* are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Data are limited to men in the civilian non-institutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

*Usual weekly earnings* data are provided from responses to the question "How much does...USUALLY earn per week at this job before deductions?" Included are any overtime pay, commissions, or tips usually received. The term "usual" is as perceived by the respondent. If the respondent asks for a definition of usual, interviewers are instructed to define the term as more than half the weeks worked during the past 4 or 5 months. Data refer to wage and salary workers (excluding the incorporated self-employed) who usually work full time on their sole or primary job.

*Median earnings* indicate the value which divides the earnings distribution into two equal parts, one part having values above the median and the other having values below the median. The medians as shown in this publication are calculated by linear interpolation of the \$50 centered interval within which each median falls.

Data expressed in constant dollars are deflated by the Consumer Price Index for All Urban Consumers (CPI-U).

*Single, never married; married, spouse present; and other marital status* are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

A *household* consists of all persons—related family members and all unrelated persons—who occupy a housing unit. A house, an apartment, a group of rooms, or a single room is regarded as a housing unit when occupied or intended for occupancy as separate living quarters.

A *householder* is the person (or one of the persons) in whose name the housing unit is owned or rented. The term is never applied to either husbands or wives in married-couple families but relates only to persons in families maintained by either men or women without a spouse.

*Family* refers to a group of two or more persons residing together who are related by birth, marriage, or adoption; all such persons are considered as members of one family even though they may include a related subfamily, that is, a married couple or a parent-child group related by birth or marriage to the householder and sharing the living quarters. The

count of families used in this publication excludes unrelated subfamilies such as lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

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

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

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

## HISTORICAL COMPARABILITY

### Change in lower age limit

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

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

### Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; other categories were relatively unaffected. (2) Beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force. Four-fifths of this increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by about 800,000; labor force and employment totals were raised by a little more than 300,000; and unemployment levels and rates were essentially unchanged. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black-and-other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black-and-other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

In addition, beginning in January 1974, the methodology used to prepare independent estimates of the civilian noninstitutional population was modified to an inflation-deflation approach. This change in the derivation of the estimates had its greatest impact on estimates of 20- to 24-year old men—particularly those of the black-and-other population—but had little effect on estimates of the total population 16 years and over. Additional information on the adjustment procedure appears in "CPS Population Controls Derived from Inflation-Deflation Method of Estimation", in the February 1974 issue of *Employment and Earnings*.

Effective in July 1975, as a result of the immigration of Vietnamese refugees into the United States, the total and black-and-other independent population controls for persons 16 years and over were adjusted upward by 76,000—30,000 men and 46,000 women. The addition of the refugees increased the black-and-other population by less than 1 percent in any age-sex group, and all of the changes were in the other population.

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

Beginning in January 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. Differences between the old and new procedures existed only for metropolitan and nonmetropolitan area estimates, not for the total United States. The reasoning behind the change and an indication of the differences appear in "Revisions in the Current Population Survey in January 1979" in the February 1979 issue of *Employment and Earnings*.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*. In addition, current population estimates used in the second-stage estimation procedure are derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in total population and estimates of persons in all labor force categories. Rates for labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used is also described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for results obtained from the 1980 census. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first and second-stage ratio adjustments, and the composite estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

Beginning in January 1986, the population controls used in the second-stage ratio adjustment methodology were revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of emigrants among legal foreign-born residents for the same time period. As a result, the total civilian population and labor force estimates were raised by nearly 400,000; civilian employment was increased by about 350,000. The Hispanic-origin civilian population and labor force estimates were raised by about 425,000 and 305,000, respectively, and civilian employment by 270,000. Overall and subgroup unemployment levels and rates were not significantly affected. Because of the magnitude of the adjustments for Hispanics, data have been revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appears in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

Beginning in August 1989, the second-stage ratio estimate cells were changed slightly to decrease the chance of very small cells occurring and to be more consistent with published age, sex, race cells. This change had virtually no effect on national estimates.

### **Changes in the occupational and industrial classification system**

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971–72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.



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

The 1980 census occupational classification system evolved from the Standard Occupational Classification system (SOC). While the CPS occupational data are now comparable with other data sources, the new system is so radically different in concepts and nomenclature from the 1970 system that comparisons of historical data are not possible without major adjustments. For example, the 1980 major group "sales occupations" is substantially larger than the 1970 category "sales workers." Major additions include "cashiers" from "clerical workers" and some self-employed proprietors in retail trade establishments from "managers and administrators, except farm."

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

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

## Changes in the sample design

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

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

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

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

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. A more detailed account of the history of the CPS sample design appears in the *Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, or *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, Report 463, Bureau of Labor Statistics.

## ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The estimation procedure involves weighting the data from each sample person by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, and the ratio estimation procedure is applied.

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

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	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			
Women, 20 years and over .....	.16	.17			
Both sexes, 16 to 19 years .....	.67	.81			
White workers .....	.11	.12			
Black workers .....	.51	.54			
Married men, spouse present .....	.15	.17			
Married women, spouse present .....	.19	.21			
Full-time workers .....	.12	.12			
Part-time workers .....	.34	.42			
Unemployed 15 weeks and over .....	.06	.07			
			<b>Occupation—Continued</b>		
			Precision production, craft, and repair .....	0.32	0.36
			Machine operators, assemblers, and inspectors .....	.49	.55
			Transportation and material moving .....	.59	.66
			Handlers, equipment cleaners, helpers, and laborers .....	.72	.82
			Farming, forestry, and fishing .....	.68	.76
			<b>Industry</b>		
			Nonagricultural private wage and salary workers .....	.12	.13
			Mining .....	1.63	1.86
			Construction .....	.65	.75
			Manufacturing .....	.26	.29
			Durable goods .....	.33	.37
			Nondurable goods .....	.42	.47
			Transportation, communications, and public utilities .....	.42	.48
			Wholesale and retail trade .....	.27	.30
			Finance and services .....	.20	.22
			Government workers .....	.23	.25
			Agricultural wage and salary workers .....	1.16	1.32
<b>Occupation</b>					
Executive, administrative, and managerial .....	.22	.24			
Professional specialty .....	.19	.21			
Technicians and related support .....	.47	.52			
Sales .....	.29	.33			
Administrative support, including clerical .....	.23	.26			
Private household .....	1.18	1.33			
Protective service .....	.76	.85			
Service, except private household and protective .....	.39	.43			

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

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

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

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

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

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

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

(in thousands)

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

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

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

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

(in thousands)

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

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

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

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

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

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

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

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

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

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

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

or about 259,000.

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

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

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

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

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

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

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



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

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

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

Characteristic	Factor				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men .....	1.30	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years) .....	1.30	.83	.80	.58	.70
Part time .....	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment and unemployment:					
Total or white .....	1.30	.88	.88	.67	.70
Black or teenagers (16 to 19 years) .....	1.30	.82	.88	.57	.70
Part time .....	1.40	.74	.88	.46	.60
Unemployment:					
Total .....	1.40	.76	.88	.50	.65
Part time .....	1.40	.69	.88	.39	.54

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

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men				Women	
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10	5	5	5	5	5	5	5	5	5
50	11	12	12	11	12	12	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.

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

### Size and regional stratification

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

### Benchmark adjustments

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

The primary sources of benchmark information are

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

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

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

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

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

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

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

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

## THE SAMPLE

### Design

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

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

(In thousands)

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

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

included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

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

### Coverage

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

### Reliability

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

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

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

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

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

<sup>3</sup> Total Federal employment counts by agency for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 56 percent of employment in Federal establishments.

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

(In percent)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

## STATISTICS FOR STATES AND AREAS

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

tions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

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

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

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

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

### COLLECTION

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

### CONCEPTS

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

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

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

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

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

*Unit nonlabor payments* include profits, capital consump-

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

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

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

### NOTES ON THE DATA

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

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

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

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

### FEDERAL-STATE COOPERATIVE PROGRAM

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

Annual average data for the States and areas shown in table

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

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

## ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

### Estimates for States

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

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

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

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

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

In both the employment and unemployment rate models,

an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

*Benchmark correction procedures.* Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

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

### Estimates for sub-State areas

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

*Preliminary estimate—employment.* The total civilian employment estimates are based on CES data. These "place-of-work" estimates must be adjusted to refer to place-of-residence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

*Preliminary estimate—unemployment.* In the current month, the estimate of unemployment is an aggregate of the estimates for each of three categories: (1) persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the civilian labor force for the first time or reentering after a period of separation.

*Sub-State adjustment for additivity.* Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

**Benchmark correction.** At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical

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

## Seasonal Adjustment

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

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

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

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age)

are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

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

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and

multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1982 annual average base. For total private, total goods-producing, total private service-producing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1982 annual average base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series, however, are used in the aggregation to broader level seasonally adjusted series.

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

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

BLS has developed an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter. This extension was also used for the seasonal adjustment of many of the establishment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

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

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Bureau of Labor Statistics**

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